FINAL

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

(120401, 120404, 120405, 120406)

Appendices A through F

Prepared for:

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Table A-1. In situ data collected during the July 2006 sampling event

Subsegment	Site ID	Site name	Date	Time	Sample depth (ft)	Water temp. (°C)	DO (mg/L)	Specific conductivity (µmhos/cm)	pH (s.u.)
120401	120401-A	Bayou Penchant southeast of Bayou Chene	7/18/06	1000	3	31.3	5.7	420	8.3
					6	31.1	5.2	420	8.3
					11	31.1	5.3	420	8.2
	120401-B	Bayou Penchant near Bayou Copasaw	7/20/06	1035	3	32.6	6.1	640	7.5
					5.5	32.2	5.6	640	7.3
					10	32.1	5.4	613	7.3
	120401-C	Bayou Copasaw near Bayou Penchant	7/20/06	1122	3	32.2	6.6	501	7.8
					5	31.9	6.1	500	7.6
					9	31.9	5.8	501	7.7
	120401-D	Bayou Penchant near Brady Canal	7/20/06	952	3	31.6	4.3	570	7.4
					5.5	31.5	4.1	570	7.3
					10	31.5	3.7	575	7.2
	120401-E	Little Carencro Bayou	7/20/06	910	3	32.7	3.5	1,559	7.5
					7	32.6	3.3	1,660	7.4
	120401-F	Carencro Bayou (Bayou Carrion Crow)	7/20/06	840	3	32.2	3.5	1,670	7.4
					6	32.2	3.0	2,070	7.3
	120401-G	Bayou Penchant near Kent Bayou Oil and Gas Field	7/18/06	1124	3	32.6	8.9	411	8.8
					10	30.9	5.1	416	8.3
120404	935	Peoples Canal north of Bayou Mauvais Bois Ridge, LA	7/20/06	732	2.25	31.5	3.7	394	7.0
	120404-A	Lake Penchant	7/20/06	754	2.25	31.0	6.0	345	7.0
120405	936	Minors Canal north of Marmande Ridge, LA	7/17/06	1719	3	32.7	10.4	575	8.4
					9	32.4	3.1	533	7.4
	120405-A	Lake Hatch	7/21/06	1115	1.5	31.1	8.7	516	9.3
	120405-B	Lake Theriot							
	120405-C	Marmande Canal between Minors Canal and Lake Theriot	7/17/06	1645	3	32.1	7.5	530	7.8
					8	32.1	5.9	493	7.6
					15	32.1	6.1	490	7.6
	120405-D	Marmande Canal east of Minors Canal	7/17/06	1610	1	31.6	6.9	480	7.6
120406	937	Lake DeCade (western part)	7/17/06	1032	2.5	31.3	6.5	5,050	7.7
	120406-A	Falgout Canal Bayou	7/17/06	1500	3	31.4	7.0	3,750	8.1
	120406-B	Lake DeCade (eastern part)	7/17/06	1800	3	31.4	7.3	4,055	8.0

Table A-2. Water quality data from July 2006 sampling event

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chloro -phyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120401	120401-A	7/18/06	59	0.22	0.070	7.00	1.70	< 0.1	0.56
	120401-C	7/20/06	22	0.11	0.024	8.10	1.50	< 0.1	0.05
	120401-D	7/20/06	26	0.12	0.038	7.90	2.90	0.13	0.05
	120401-G	7/18/06	40	0.23	0.080	6.70	1.90	< 0.1	0.09
120404	935	7/20/06	19	0.11	< 0.02	6.80	1.00	< 0.1	< 0.04
	120404-A	7/20/06	14	0.08	< 0.02	6.60	0.91	< 0.1	< 0.04
120405	936	7/17/06	21	0.15	0.053	7.50	1.50	< 0.1	0.04
	120405-A-1	7/21/06	14	0.09	0.094	11.00	1.90	< 0.1	< 0.04
	120405-A-2	7/21/06	14	0.09	0.088	10.00	2.20	< 0.1	< 0.04
	120405-D	7/17/06	43	0.13	0.028	7.10	1.10	< 0.1	< 0.04
120406	937	7/17/06	17	0.11	< 0.02	7.20	1.00	< 0.1	< 0.04
	120406-A	7/17/06	34	0.17	0.030	8.30	1.50	< 0.1	< 0.04

Table A-3. CBOD monitoring results from July 2006 sampling event

Subsegment	Site ID	$CBOD_3$ (mg/L)	$CBOD_5$ (mg/L)	$CBOD_{12}$ (mg/L)	$CBOD_{18}$ (mg/L)	$CBOD_{25}$ (mg/L)	$CBOD_u$ decay rate (1/day)	$CBOD_U$ (mg/L)
120401	120401-A	2.2	4.1	7.5	7.1	12.0	0.05	16.08
	120401-C	2.2	3.1	5.7	5.8	6.0	0.18	6.17
	120401-D	< 2	2.6	5.4	5.0	5.2	0.59	5.21
	120401-G	3.7	5.4	16.0	18.0	18.0	0.15	19.33
120404	935	< 2	< 2	3.4	3.3	3.5	0.36	3.42
	120404-A	< 2	< 2	3.2	2.8	2.9	0.27	3.01
120405	936	3.0	4.3	8.2	8.8	4.7	0.35	7.16
	120405-A-1	4.9	7.0	8.2	9.3	20.0	0.04	28.07
	120405-A-2	4.6	6.6	9.9	17.0	25.0	0.04	37.98
	120405-D	< 2	2.6	5.3	4.2	4.0	0.60	4.50
120406	937	< 2	2.1	2.9	2.0	3.2	0.31	2.72
	120406-A	2.4	3.6	5.5	4.9	5.3	0.33	5.26

Table A-4. Summary of Acoustic Doppler Current Profiler data for 120401-B and 120401-C

Station	120401-B		120401-C		
Run	R1	R2	R1	R2	R3
Geometry					
Area (ft^2)	2,038	2,048	1,815	1,930	1,899
River width (ft)	354	352	381	422	414
Calculated average depth (ft)	5.8	5.8	4.8	4.6	4.6
Average depth (ft)	5.8		4.6		
Flows					
Total discharge (cfs)	594.33	597.47	186.7	138.13	218.09
Flow direction (deg)	170.1	174.5	240.5	250.5	239.0
Average flow (cfs)	595.9		181.0		

Table A-5. Summary of Acoustic Doppler Current Profiler data for 120401-E and 120401-F

Station	120401-E			120401-F		
Run	R1	R2	R1	R2	R4	R5
Geometry						
Area (ft^2)	930	933	23	614	726	643
River width (ft)	216	217	14	138	191	159
Calculated average depth (ft)	4.3	4.3	1.6	4.4	3.8	4.0
Average depth (ft)	4.3		3.5			
Flows						
Total discharge (cfs)	-449.4	-436.4	-0.8	-20.33	-29	-19.4
Flow direction (deg)	84.9	76.9	45.1	64.0	31.1	66.5
Average flow (cfs)	-442.9		-17.4			

Table A-6. Summary of Acoustic Doppler Current Profiler data for 120405-C and 120405-E

Station	120405-C			120405-E
Run	R1	R2	R3	R1
Geometry				
Area (ft^2)	104	1930	753	965
River width (ft)	13	422	121	190
Calculated average depth (ft)	7.9	4.6	6.2	5.1
Average depth (ft)	185.4			5.1
Flows				
Total discharge (cfs)	11.66	138.13	-38.91	108.84
Flow direction (deg)	177.1	250.5	110.6	202.4
Average flow (cfs)	37.0			108.8

Table A-7. Available total nitrite+nitrate data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total NO_2+NO_3 minimum (mg/L)	Total NO_2+NO_3 maximum (mg/L)	Total NO_2+NO_3 average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	20	0.02	1.74	0.25
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.02	2.28	0.32
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.02	1.58	0.23
120106	972	Bayou Plaquemine	2/1/00-11/16/04	21	0.05	1.67	0.53
120109	975	ICWW	2/1/00-11/16/04	23	0.09	1.97	0.96

Table A-8. Available total Kjeldahl nitrogen data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	TKN minimum (mg/L)	TKN maximum (mg/L)	TKN average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	23	0.35	2.21	1.22
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.23	2.88	1.01
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.52	2.6	1.24
120106	972	Bayou Plaquemine	2/1/00-11/16/04	23	0.13	2.0	0.90
120109	975	ICWW	2/1/00-11/16/04	23	0.15	1.61	0.80

Table A-9. Available total phosphorus data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total phos. minimum (mg/L)	Total phos. maximum (mg/L)	Total phos. average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	23	0.13	0.67	0.30
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.07	0.76	0.24
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.17	0.56	0.32
120106	972	Bayou Plaquemine	2/1/00-11/16/04	22	0.14	0.65	0.26
120109	975	ICWW	2/1/00-11/16/04	23	0.12	0.59	0.27

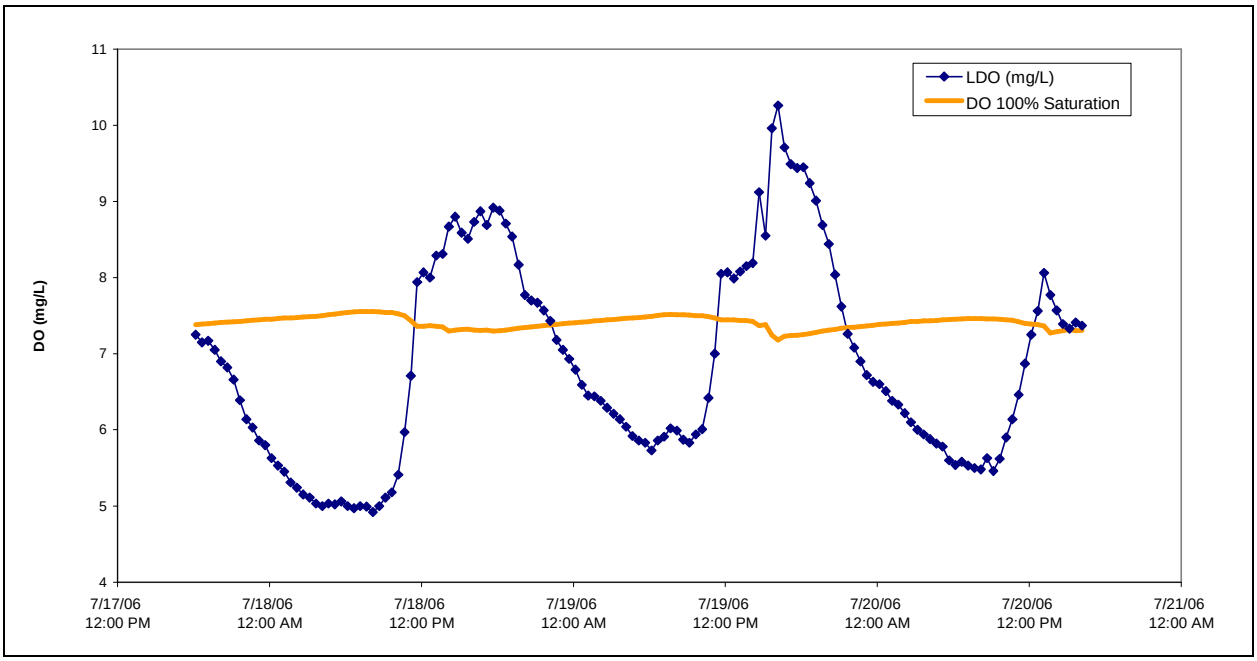

Figure A-1. Continuous monitoring dissolved oxygen data at Lake de Cade (120406-B).

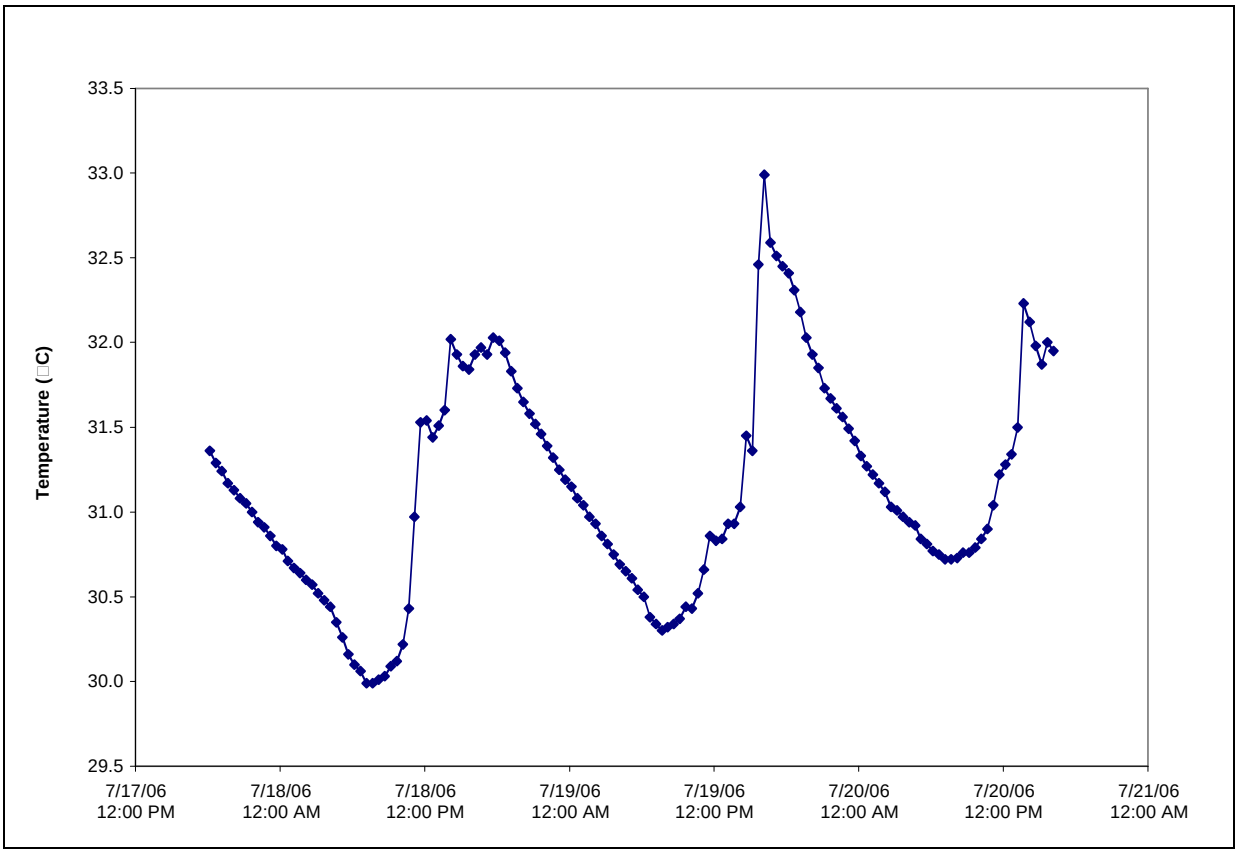

Figure A-2. Continuous temperature data at Lake de Cade (120406-B).

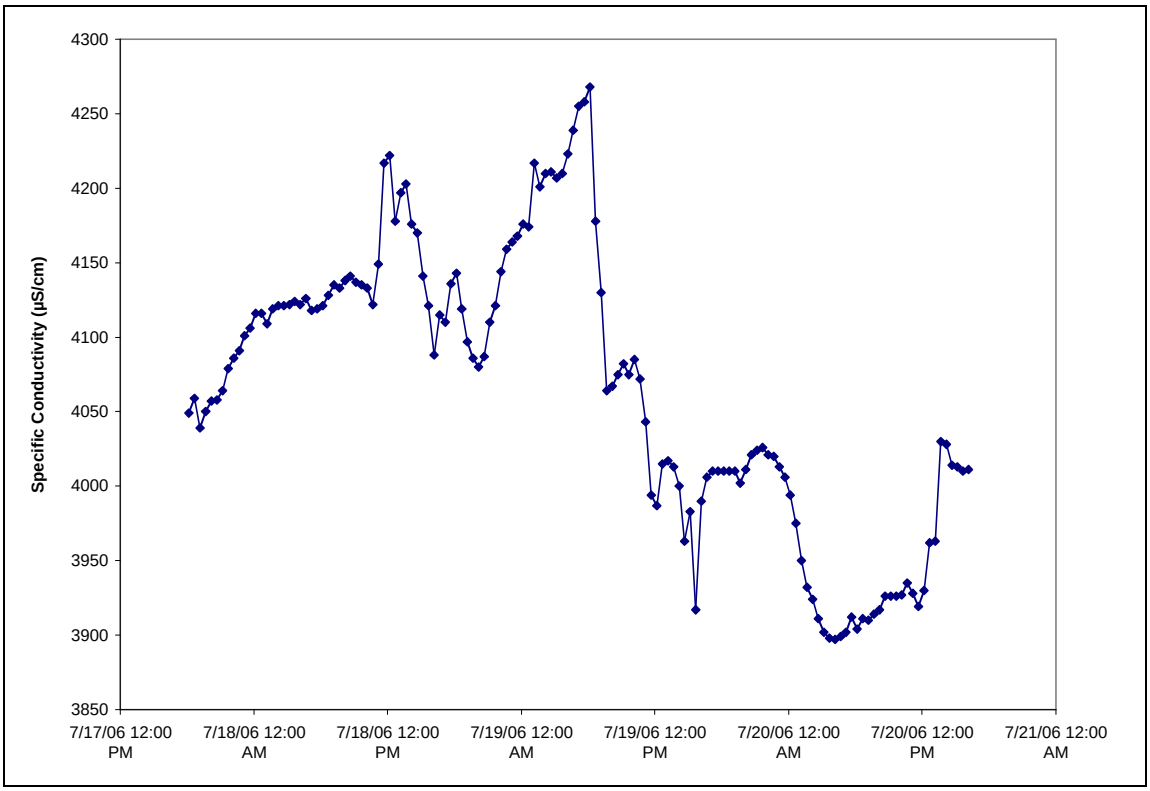

Figure A-3. Continuous specific conductivity data at Lake de Cade (120406-B).

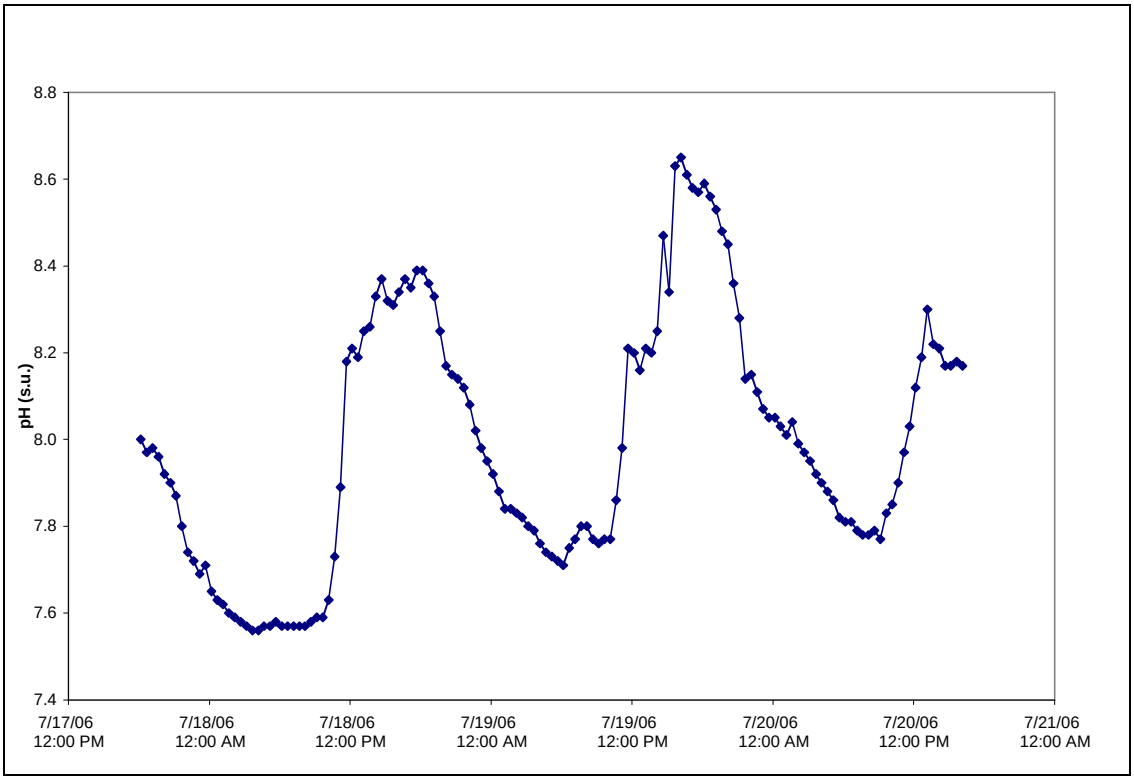

Figure A-4. Continuous pH data at Lake de Cade (120406-B).

APPENDIX B
FIELD SURVEY NOTES
(CD-ROM)

This appendix contains large files, which are provided only on a CD-ROM. To obtain a copy of this appendix, please contact EPA.

APPENDIX C:
MODEL VECTOR DIAGRAMS

Figure C-1. Vector diagram for subsegment 120401 1
Figure C-2. Vector diagram for subsegment 120404 2
Figure C-3. Combined vector diagram for subsegments 120401 and 120404 3
Figure C-4. Vector diagram for subsegment 120406 4
Figure C-5. Vector diagram for subsegment 120405 5
Figure C-6. Combined vector diagram for subsegments 120405 and 120406 6

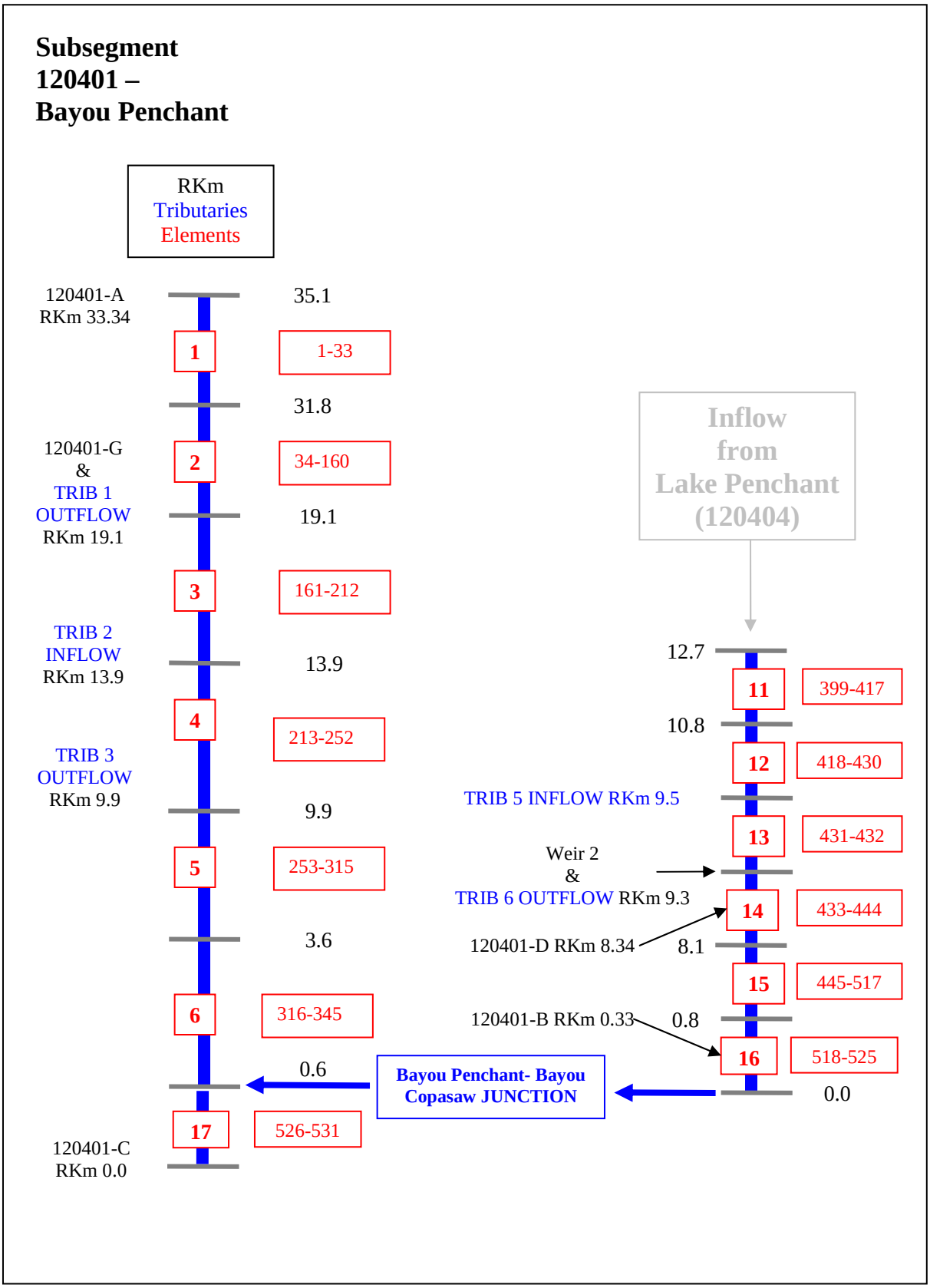

Figure C-1. Vector diagram for subsegment 120401.

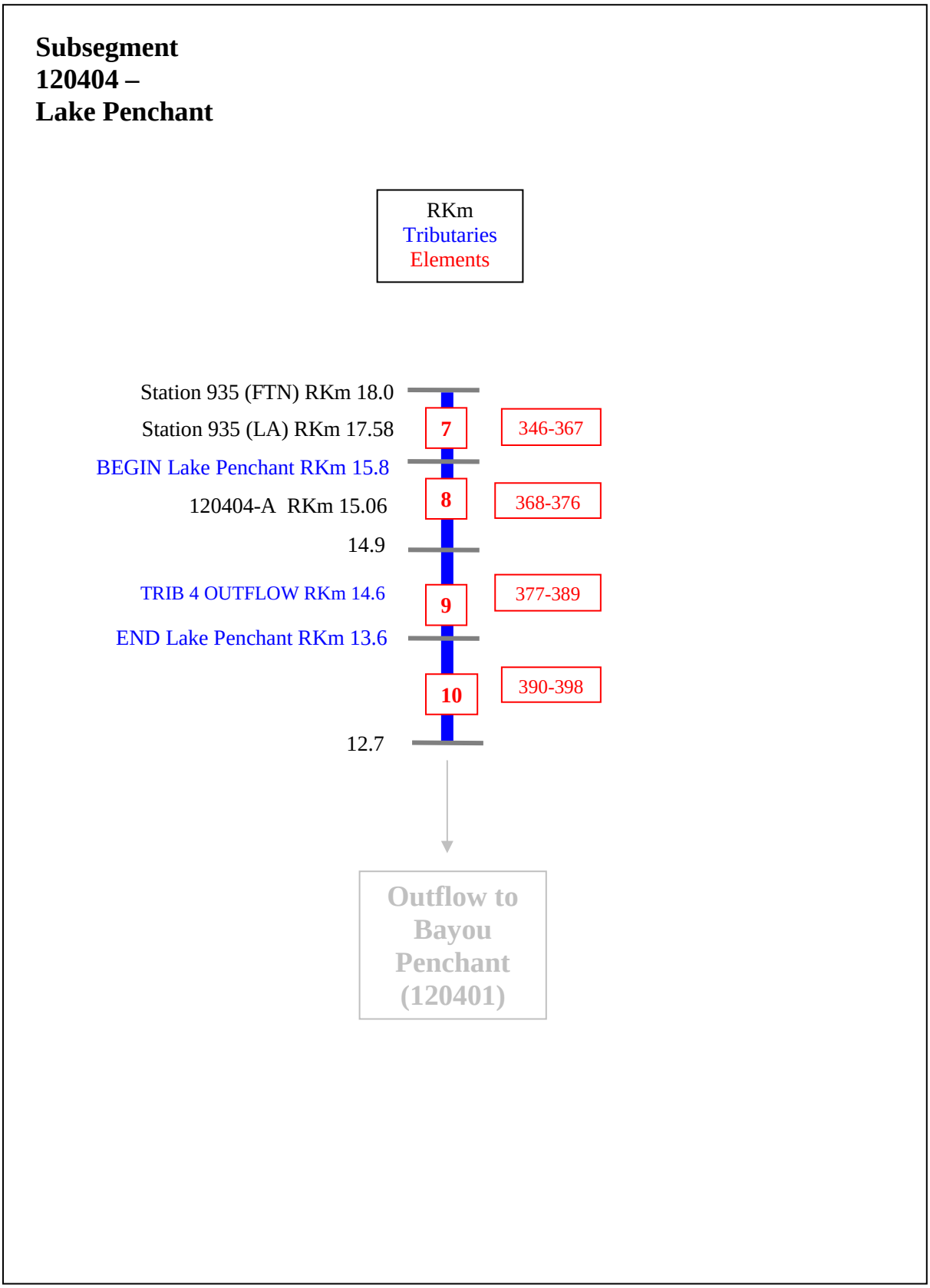

Figure C-2. Vector diagram for subsegment 120404.

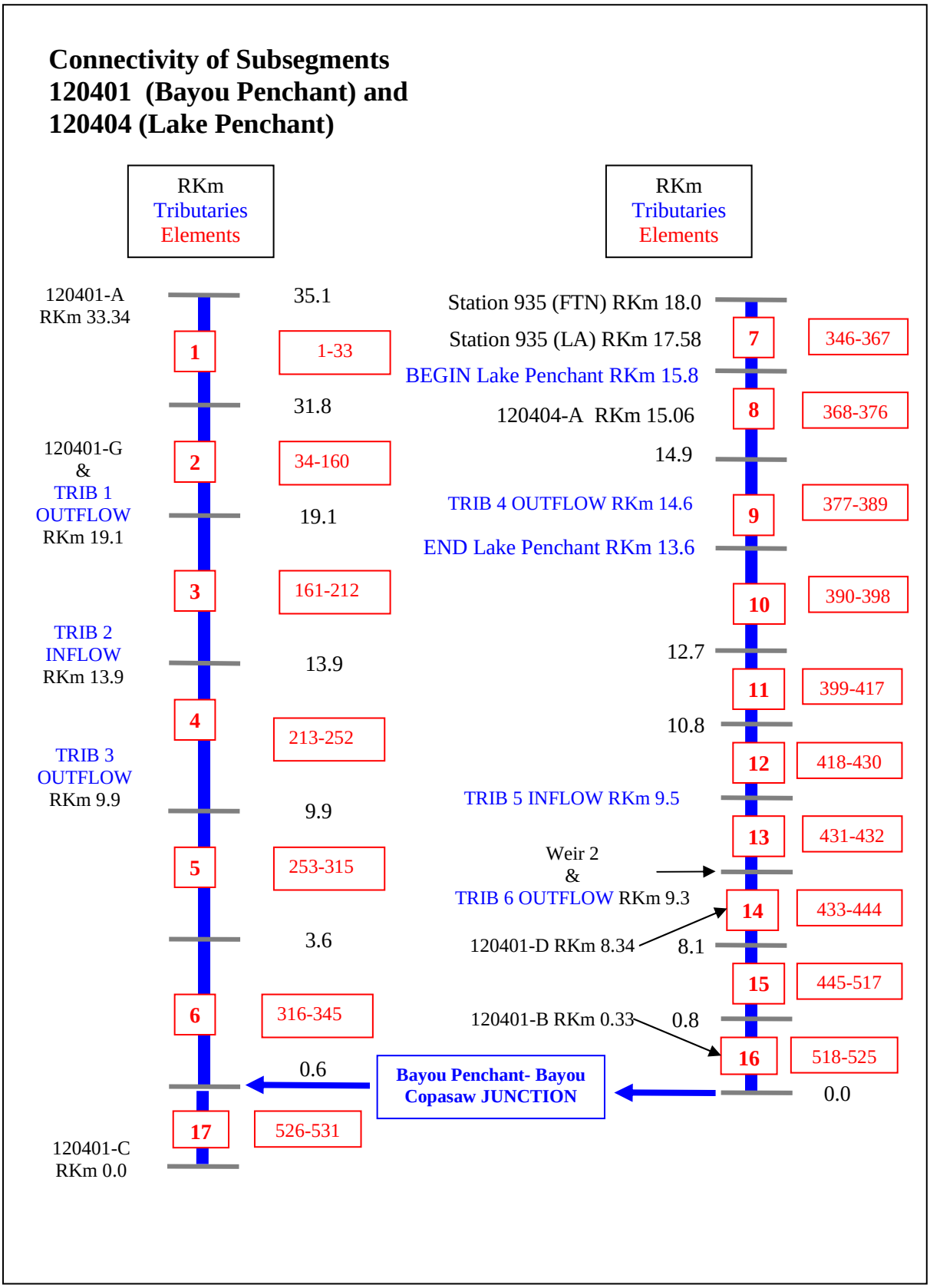

Figure C-3. Combined vector diagram for subsegments 120401 and 120404.

Subsegment 120406 (Lake de Cade)

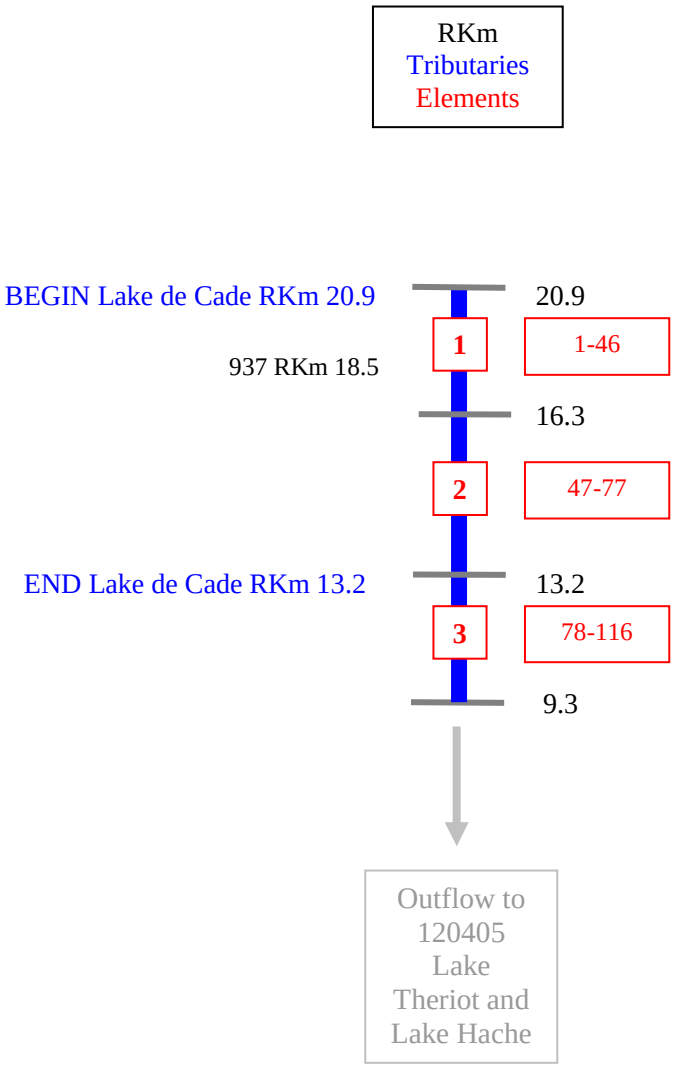

Figure C-4. Vector diagram for subsegment 120406.

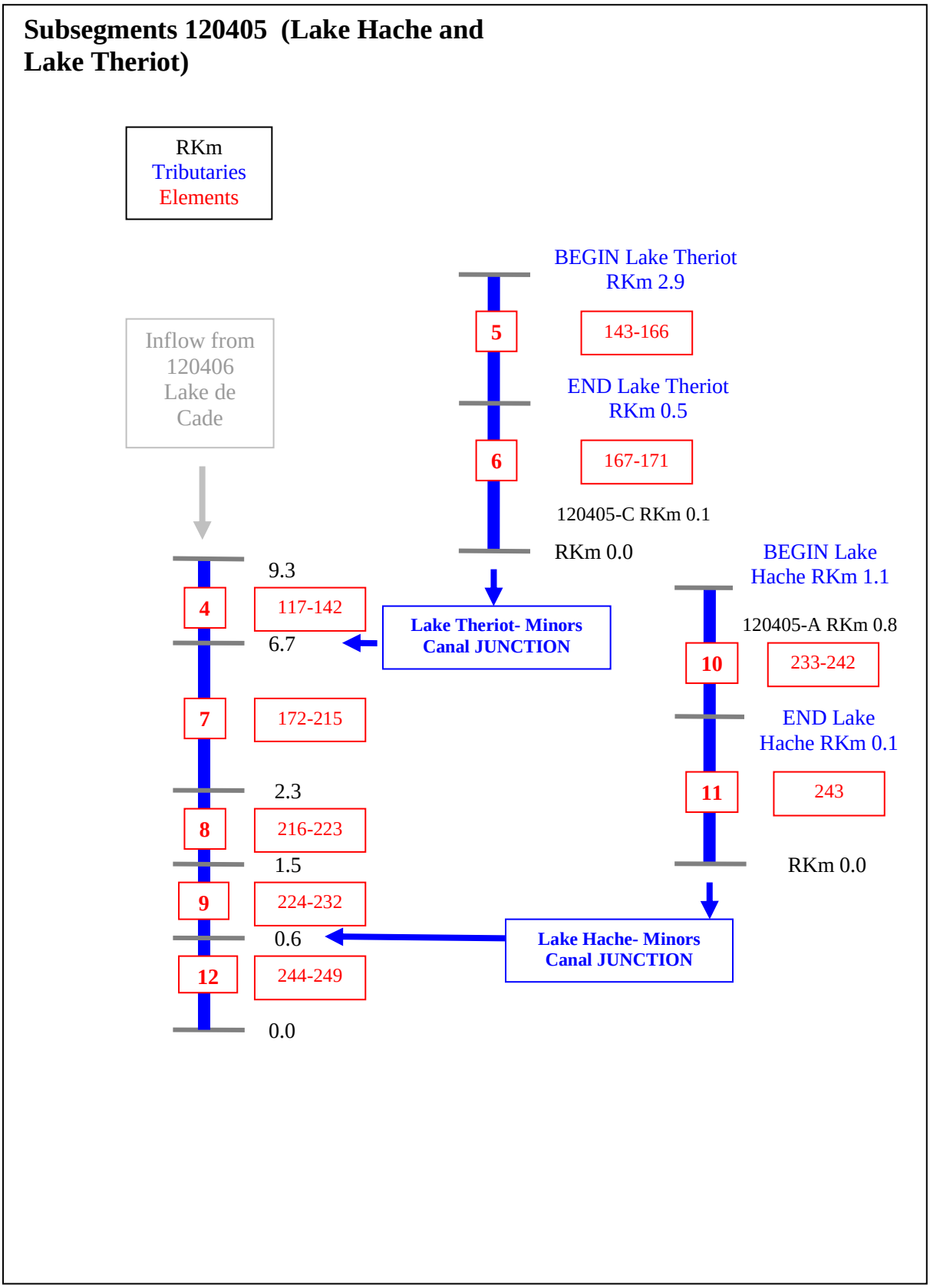

Figure C-5. Vector diagram for subsegment 120405.

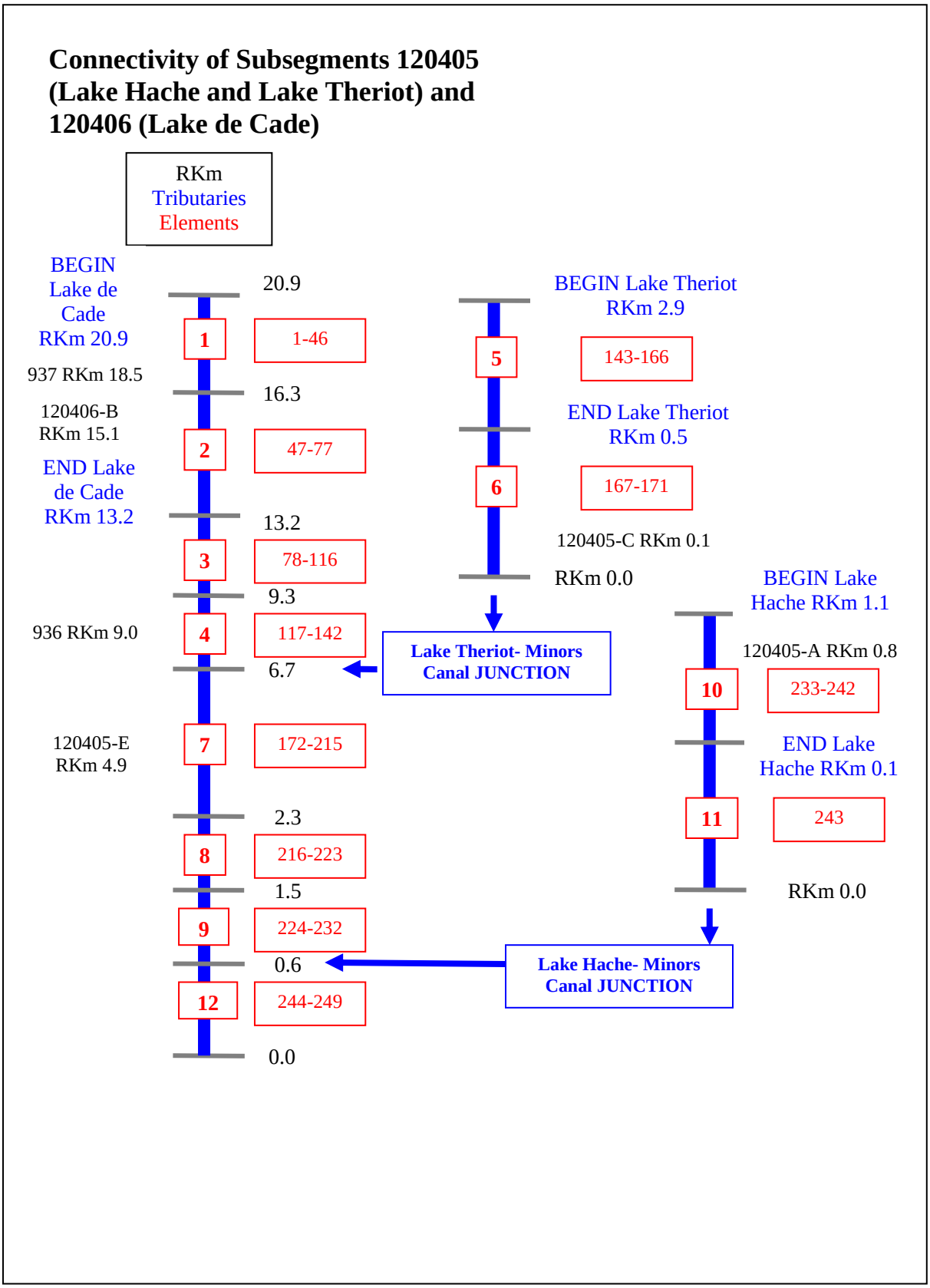

Figure C-6. Combined vector diagram for subsegments 120405 and 120406.

APPENDIX D:
MODEL OUTPUT FOR CALIBRATION

Calibration output file for subsegments 120401/120404 1
Calibration output file for subsegments 120405/120406 145

Calibration output file for subsegments 120401/120404

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\Lake_Bayou_Penchant\cal\Penchant_CAL.txt
Output produced at 11:59 on 02/25/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
TITLE02        Calibration Simulation for Lake Penchant and Bayou Penchant mode
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                       =        0.60000 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
```

```
$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        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   1  Bayou Chene to Blackbird Bayou     35.10  TO  31.80  0.1000    3.30     33      1    33
REACH ID    2   2  Blackbird Bayou to 120401-G       31.80  TO  19.10  0.1000   12.70    127     34   160
REACH ID    3   3  120401-G to Turtle Bayou          19.10  TO  13.90  0.1000    5.20     52    161   212
REACH ID    4   4  Turtle Bayou to Carenero Bayou    13.90  TO   9.90  0.1000    4.00     40    213   252
REACH ID    5   5  Carenero Bayou to un canal 2       9.90  TO   3.60  0.1000    6.30     63    253   315
REACH ID    6   6  un canal 2 to Corasaw conf.        3.60  TO   0.60  0.1000    3.00     30    316   345
REACH ID    7   7  935 to Peoples Canal and L.P      18.00  TO  15.80  0.1000    2.20     22    346   367
REACH ID    8   8  Peoples C. and L.P to N. Outlet   15.80  TO  14.90  0.1000    0.90      9    368   376
REACH ID    9   9  N. Outlet to L. Penchant W. Sid   14.90  TO  13.60  0.1000    1.30     13    377   389
REACH ID   10  10  L. P. W. Side to L. P W. Outlet   13.60  TO  12.70  0.1000    0.90      9    390   398
REACH ID   11  11  L. P W. Outlet to Superior Cana    12.70  TO  10.80  0.1000    1.90     19    399   417
REACH ID   12  12  Superior Canal to un canal 1       10.80  TO   9.50  0.1000    1.30     13    418   430
REACH ID   13  13  unnamed canal to Brady C/Weir 2     9.50  TO   9.30  0.1000    0.20      2    431   432
REACH ID   14  14  Brady C/Weir 2 to Km#              9.30  TO   8.10  0.1000    1.20     12    433   444
REACH ID   15  15  Km# to Pipeline Canal              8.10  TO   0.80  0.1000    7.30     73    445   517
REACH ID   16  16  Pipeline Canal to Corasaw conf.    0.80  TO   0.00  0.1000    0.80      8    518   525
REACH ID   17  17  Corasaw conf. to 120401-C          0.60  TO   0.00  0.1000    0.60      6    526   531
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   1      0.000     0.000   135.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      2   2      0.000     0.000   110.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      3   3      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      4   4      0.000     0.000   155.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      5   5      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      6   6      0.000     0.000   110.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      7   7      0.000     0.000    35.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      8   8      0.000     0.000  2131.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      9   9      0.000     0.000   983.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     10  10      0.000     0.000   148.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     11  11      0.000     0.000    61.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     12  12      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     13  13      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     14  14      0.000     0.000    70.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     15  15      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     16  16      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     17  17      0.000     0.000    88.000     0.000     0.000     1.402   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                        RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00       0.600         0.000         0.000         0.000
HYDR        2   2     0.00       0.500         0.000         0.000         0.000
HYDR        3   3     0.00       0.400         0.000         0.000         0.000
HYDR        4   4     0.00       0.300         0.000         0.000         0.000
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HYDR      5  5    0.00     0.300     0.000     0.000     0.000
HYDR      6  6    0.00     0.400     0.000     0.000     0.000
HYDR      7  7    0.00     0.000     0.000     0.000     0.000
HYDR      8  8    0.00     0.000     0.000     0.000     0.000
HYDR      9  9    0.00     0.000     0.000     0.000     0.000
HYDR     10  10    0.00     0.000     0.000     0.000     0.000
HYDR     11  11    0.00     0.300     0.000     0.000     0.000
HYDR     12  12    0.00     0.200     0.000     0.000     0.000
HYDR     13  13    0.00     0.100     0.000     0.000     0.000
HYDR     14  14    0.00     0.100     0.000     0.000     0.000
HYDR     15  15    0.00     0.100     0.000     0.000     0.000
HYDR     16  16    0.00     0.100     0.000     0.000     0.000
HYDR     17  17    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  1    31.20    0.00    5.00   0.10    0.33    0.00   70.00    0.00
INITIAL        2  2    31.80    0.00    5.00   0.10    0.33    0.00   75.00    0.00
INITIAL        3  3    31.80    0.00    5.00   0.10    0.33    0.00   80.00    0.00
INITIAL        4  4    31.80    0.00    5.00   0.10    0.33    0.00   60.00    0.00
INITIAL        5  5    31.80    0.00    5.00   0.10    0.33    0.00   40.00    0.00
INITIAL        6  6    31.80    0.00    5.00   0.10    0.33    0.00   24.00    0.00
INITIAL        7  7    31.50    0.00    5.00   0.12    0.05    0.00   10.00    0.00
INITIAL        8  8    31.00    0.00    5.00   0.12    0.05    0.00   10.00    0.00
INITIAL        9  9    31.00    0.00    5.00   0.12    0.05    0.00   10.00    0.00
INITIAL       10  10    31.50    0.00    5.00   0.12    0.05    0.00   25.00    0.00
INITIAL       11  11    31.50    0.00    5.00   0.12    0.05    0.00   38.00    0.00
INITIAL       12  12    31.50    0.00    5.00   0.10    0.05    0.00   38.00    0.00
INITIAL       13  13    31.50    0.00    5.00   0.10    0.05    0.00   38.00    0.00
INITIAL       14  14    31.50    0.00    5.00   0.10    0.05    0.00   38.00    0.00
INITIAL       15  15    32.30    0.00    5.00   0.10    0.05    0.00   38.00    0.00
INITIAL       16  16    32.30    0.00    5.00   0.10    0.05    0.00   30.00    0.00
INITIAL       17  17    32.30    0.00    5.00   0.10    0.05    0.00   24.00    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   1   3 OCONNER-DOBB   0.000   0.000   0.000   2.500   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2   2   3 OCONNER-DOBB   0.000   0.000   0.000   2.700   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3   3   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4   4   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5   5   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6   6   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7   7   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8   8  20 K2=a/D         0.930   0.000   0.000   0.600   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9   9  20 K2=a/D         0.930   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  10   3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  11   3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
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COEFF-1  12  12  3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  13  13  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  14  14  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  15  15  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  16  16  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  17  17  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
ENDATA12
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
CARD TYPE    REACH  ID     ORG-N    ORG-N  ORGN CONV     NH3      NH3     PHOS    DENIT
                      DECA     SETT  TO NH3 SRCE    DECA     SRCE     SRCE     RATE
COEFF-2        1   1    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        2   2    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        3   3    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        4   4    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        5   5    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        6   6    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        7   7    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        8   8    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        9   9    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2       10  10    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       11  11    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       12  12    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       13  13    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       14  14    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       15  15    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       16  16    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       17  17    0.020   0.000   0.000   0.150   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
INCR-1         1   1   -0.70000    0.50000   31.13    0.00    0.00    0.00  0.15152  -0.21212
INCR-1         2   2   -5.20000    5.00000   31.13    0.00    0.00    0.00  0.39370  -0.40945
INCR-1         3   3   -0.70000    0.50000   31.13    0.00    0.00    0.00  0.09615  -0.13462
INCR-1         4   4   -0.70000    0.50000   31.13    0.00    0.00    0.00  0.12500  -0.17500
INCR-1         5   5   -0.70000    0.50000   31.13    0.00    0.00    0.00  0.07937  -0.11111
INCR-1         6   6   -0.70000    0.50000   31.13    0.00    0.00    0.00  0.16667  -0.23333
INCR-1         7   7    0.00000    0.00000    0.00    0.00    0.00    0.00  0.00000   0.00000
INCR-1         8   8    0.00000    1.53760   31.13    0.00    0.00    0.00  1.70844   0.00000
INCR-1         9   9   -1.60000    3.58780   31.13    0.00    0.00    0.00  2.75985  -1.23077
INCR-1        10  10   -0.50000    0.50000   31.13    0.00    0.00    0.00  0.55556  -0.55556
INCR-1        11  11   -0.50000    0.50000   31.13    0.00    0.00    0.00  0.26316  -0.26316
INCR-1        12  12   -0.50000    0.50000   31.13    0.00    0.00    0.00  0.38462  -0.38462
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INCR-1      13  13    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
INCR-1      14  14    0.00000   0.02550   31.13    0.00    0.00    0.00  0.02125  0.00000
INCR-1      15  15    0.00000   0.20390   31.13    0.00    0.00    0.00  0.02793  0.00000
INCR-1      16  16    0.00000   0.02550   31.13    0.00    0.00    0.00  0.03187  0.00000
INCR-1      17  17    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    REACH  ID      DO     BOD    ORG-N    NH3-N    NO3-N    BOD#2
INCR-2       1   1    5.00   50.00   1.30    0.10    0.04    0.00
INCR-2       2   2    5.00   50.00   3.10    0.10    0.04    0.00
INCR-2       3   3    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       4   4    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       5   5    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       6   6    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       7   7    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2       8   8    5.00    9.30   1.30    0.10    0.04    0.00
INCR-2       9   9    5.00    9.30   2.80    0.10    0.04    0.00
INCR-2      10  10    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      11  11    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      12  12    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      13  13    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2      14  14    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      15  15    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      16  16    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      17  17    0.00    0.00   0.00    0.00    0.00    0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE    REACH  ID     PHOS    CHL A    COLI     NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE    REACH  ID    BOD#1    ORG-N    COLI     NCM      DO    BOD#2
NONPOINT      1   1    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      2   2    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      3   3    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      4   4    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      5   5    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      6   6    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      7   7    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      8   8    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      9   9    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     10  10    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     11  11    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     12  12    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     13  13    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     14  14    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     15  15    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     16  16    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     17  17    0.00    0.00    0.00    0.00    0.00    0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE    ELEMENT   NAME                UNIT    FLOW    FLOW   TEMP   SALIN    CM-I    CM-II
                                          m³/s    cfs   deg C    ppt
HDWTR-1        1    Bayou Chene          0  30.66731 1082.885  31.50    0.00    0.000    0.000  0.00
HDWTR-1      346    Station 935          0   0.11327   4.000  31.20    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    Bayou Chene             6.20    16.08     1.60     0.10     0.56     0.00
HDWTR-2      346    Station 935             4.70     3.42     0.90     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       526    345      0.60   Penchant-Copasaw 1
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     161     19.10  TRIB 1 OUTFLOW      -7.30570 -257.96964 -166.755  931.00     8.00     0.000     0.000
WSTLD-1     213     13.90  TRIB 2 INFLOW        2.26536   79.99153   51.708   31.80     0.00     0.000     0.000
WSTLD-1     253      9.90  TRIB 3 OUTFLOW     -19.34050 -682.92725 -441.453  131.00     8.00     0.000     0.000
WSTLD-1     380     14.60  TRIB 4 OUTFLOW       0.00000    0.00000    0.000   31.80     0.00     0.000     0.000
WSTLD-1     431      9.50  TRIB 5 INFLOW        3.02992  106.98871   69.159   31.50     0.00     0.000     0.000
WSTLD-1     433      9.30  TRIB 6 OUTFLOW      -3.19980 -112.98729  -73.036  231.00     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       161    TRIB 1 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       213    TRIB 2 INFLOW            3.70     3.40     0.00     2.00     0.05     0.00     0.00     0.00
WSTLD-2       253    TRIB 3 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       380    TRIB 4 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       431    TRIB 5 INFLOW            3.70    10.00     0.00     4.00     0.05     0.00     0.00     0.00
WSTLD-2       433    TRIB 6 OUTFLOW           3.70     3.40     0.00     1.00     0.05     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                      32.200     deg C
LOWER BC     SALINITY                          0.000     ppt
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LOWER BC    CONSERVATIVE MATERIAL I              0.000
LOWER BC    CONSERVATIVE MATERIAL II             0.000
LOWER BC    DISSOLVED OXYGEN                   6.100    mg/L
LOWER BC    BIOCHEMICAL OXYGEN DEMAND            2.200    mg/L
LOWER BC    ORGANIC NITROGEN                   0.000    mg/L
LOWER BC    AMMONIA NITROGEN                   0.100    mg/L
LOWER BC    NITRATE + NITRITE                  0.050    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                     24.000    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 =   7
PLOT RCH  1  2  3  4  5  6 17
NUMBER OF REACHES IN PLOT 1 =  10
PLOT RCH  7  8  9 10 11 12 13 14 15 16
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 BayouPenchant.OVL            :Bayou Penchant 120401
OVERLAY 2 LakePenchant.OVL             :Lake Penchant 120404
ENDATA31
    .....NO ERRORS DETECTED IN INPUT DATA
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   6 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 Penchant and Bayou Penchant (subsegments
    mg/L                                        Calibration Simulation for Lake Penchant and Bayou Penchant mode
 ID   RCH  ELEM       +0       +1       +2       +3       +4       +5       +6       +7       +8       +9
  1    1    1      6.20     6.20     6.20     6.20     6.20     6.20     6.20     6.20     6.20     6.20
  1    1   11      6.20     6.21     6.21     6.21     6.21     6.21     6.21     6.21     6.21     6.21
  1    1   21      6.21     6.21     6.21     6.21     6.21     6.21     6.22     6.22     6.22     6.22
  1    1   31      6.22     6.22     6.22
  2    2   34      6.22     6.22     6.22     6.22     6.22     6.21     6.21     6.21     6.21     6.21
  2    2   44      6.21     6.21     6.21     6.21     6.21     6.20     6.20     6.20     6.20     6.20
  2    2   54      6.20     6.20     6.20     6.20     6.20     6.19     6.19     6.19     6.19     6.19
  2    2   64      6.19     6.19     6.19     6.19     6.19     6.18     6.18     6.18     6.18     6.18
  2    2   74      6.18     6.18     6.18     6.18     6.18     6.18     6.17     6.17     6.17     6.17
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2	2	84	6.17	6.17	6.17	6.17	6.17	6.17	6.16	6.16	6.16	6.16
2	2	94	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.15	6.15	6.15
2	2	104	6.15	6.15	6.15	6.15	6.15	6.15	6.15	6.15	6.14	6.14
2	2	114	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14
2	2	124	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13
2	2	134	6.13	6.13	6.12	6.12	6.12	6.12	6.12	6.12	6.12	6.12
2	2	144	6.12	6.12	6.12	6.12	6.11	6.11	6.11	6.11	6.11	6.11
2	2	154	6.11	6.11	6.11	6.11	6.11	6.11	6.11			
3	3	161	6.13	6.16	6.20	6.23	6.26	6.29	6.32	6.35	6.38	6.41
3	3	171	6.44	6.46	6.49	6.52	6.55	6.57	6.60	6.62	6.65	6.67
3	3	181	6.70	6.72	6.74	6.77	6.79	6.81	6.83	6.85	6.87	6.90
3	3	191	6.92	6.94	6.95	6.97	6.99	7.01	7.03	7.05	7.06	7.08
3	3	201	7.10	7.11	7.13	7.14	7.16	7.17	7.19	7.20	7.21	7.23
3	3	211	7.24	7.24								
4	4	213	6.96	6.98	7.00	7.02	7.04	7.06	7.08	7.10	7.12	7.14
4	4	223	7.15	7.17	7.18	7.20	7.21	7.23	7.24	7.25	7.26	7.27
4	4	233	7.28	7.29	7.30	7.31	7.32	7.32	7.33	7.34	7.34	7.35
4	4	243	7.35	7.36	7.36	7.36	7.36	7.37	7.37	7.37	7.37	7.37
5	5	253	7.37	7.36	7.36	7.36	7.35	7.35	7.34	7.34	7.33	7.33
5	5	263	7.32	7.31	7.30	7.30	7.29	7.28	7.27	7.26	7.25	7.24
5	5	273	7.23	7.21	7.20	7.19	7.18	7.16	7.15	7.14	7.12	7.11
5	5	283	7.09	7.08	7.06	7.05	7.03	7.01	7.00	6.98	6.96	6.94
5	5	293	6.93	6.91	6.89	6.87	6.85	6.83	6.81	6.79	6.77	6.75
5	5	303	6.73	6.71	6.69	6.67	6.65	6.63	6.60	6.58	6.56	6.54
5	5	313	6.51	6.49	6.47							
6	6	316	6.44	6.41	6.38	6.35	6.33	6.30	6.27	6.25	6.23	6.20
6	6	326	6.18	6.16	6.14	6.12	6.10	6.08	6.06	6.04	6.02	6.01
6	6	336	5.99	5.97	5.96	5.94	5.93	5.91	5.90	5.89	5.88	5.89
17	17	526	6.07	6.06	6.06	6.06	6.05	6.05				
7	7	346	4.71	4.73	4.76	4.78	4.81	4.84	4.87	4.89	4.92	4.95
7	7	356	4.98	5.00	5.03	5.05	5.08	5.10	5.12	5.15	5.17	5.19
7	7	366	5.21	5.23								
8	8	368	7.00	7.03	7.03	7.03	7.02	7.02	7.02	7.02	7.02	
9	9	377	6.28	5.95	5.81	5.77	5.78	5.83	5.89	5.96	6.04	6.13
9	9	387	6.22	6.32	6.41							
10	10	390	6.29	6.19	6.10	6.02	5.96	5.91	5.88	5.85	5.84	
11	11	399	5.83	5.82	5.82	5.81	5.81	5.80	5.80	5.79	5.79	5.78
11	11	409	5.77	5.77	5.77	5.76	5.76	5.75	5.75	5.74	5.74	
12	12	418	5.71	5.68	5.66	5.63	5.61	5.59	5.57	5.54	5.52	5.50
12	12	428	5.48	5.46	5.41							
13	13	431	4.69	4.73								
14	14	433	4.76	4.82	4.87	4.93	4.98	5.03	5.09	5.14	5.18	5.23
14	14	443	5.28	5.32								
15	15	445	5.36	5.40	5.44	5.48	5.51	5.55	5.58	5.62	5.65	5.68
15	15	455	5.71	5.74	5.77	5.80	5.82	5.85	5.87	5.90	5.92	5.95
15	15	465	5.97	5.99	6.01	6.03	6.05	6.07	6.09	6.11	6.12	6.14
15	15	475	6.16	6.17	6.19	6.20	6.21	6.23	6.24	6.25	6.26	6.28
15	15	485	6.29	6.30	6.31	6.32	6.32	6.33	6.34	6.35	6.36	6.36
15	15	495	6.37	6.38	6.38	6.39	6.39	6.40	6.40	6.40	6.41	6.41
15	15	505	6.42	6.42	6.42	6.42	6.42	6.43	6.43	6.43	6.43	6.43

15	15	515	6.43	6.43	6.43							
16	16	518	6.43	6.42	6.42	6.41	6.40	6.39	6.38	6.35		

INTERMEDIATE REPORT

Effective BOD LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	21	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	31	16.08	16.08	16.08							
2	2	34	16.11	16.14	16.17	16.20	16.23	16.26	16.29	16.32	16.35	16.38
2	2	44	16.41	16.44	16.47	16.50	16.52	16.55	16.58	16.61	16.64	16.67
2	2	54	16.70	16.73	16.75	16.78	16.81	16.84	16.87	16.90	16.92	16.95
2	2	64	16.98	17.01	17.04	17.06	17.09	17.12	17.15	17.18	17.20	17.23
2	2	74	17.26	17.29	17.31	17.34	17.37	17.40	17.42	17.45	17.48	17.50
2	2	84	17.53	17.56	17.58	17.61	17.64	17.66	17.69	17.72	17.74	17.77
2	2	94	17.80	17.82	17.85	17.88	17.90	17.93	17.95	17.98	18.01	18.03
2	2	104	18.06	18.08	18.11	18.13	18.16	18.18	18.21	18.24	18.26	18.29
2	2	114	18.31	18.34	18.36	18.39	18.41	18.44	18.46	18.49	18.51	18.54
2	2	124	18.56	18.59	18.61	18.64	18.66	18.68	18.71	18.73	18.76	18.78
2	2	134	18.81	18.83	18.85	18.88	18.90	18.93	18.95	18.97	19.00	19.02
2	2	144	19.05	19.07	19.09	19.12	19.14	19.16	19.19	19.21	19.23	19.26
2	2	154	19.28	19.30	19.33	19.35	19.37	19.40	19.42			
3	3	161	19.40	19.39	19.37	19.35	19.34	19.32	19.30	19.28	19.27	19.25
3	3	171	19.23	19.21	19.20	19.18	19.16	19.15	19.13	19.11	19.10	19.08
3	3	181	19.06	19.04	19.03	19.01	18.99	18.98	18.96	18.94	18.93	18.91
3	3	191	18.89	18.88	18.86	18.84	18.82	18.81	18.79	18.77	18.76	18.74
3	3	201	18.72	18.71	18.69	18.67	18.66	18.64	18.62	18.61	18.59	18.58
3	3	211	18.56	18.50								
4	4	213	17.15	17.13	17.10	17.08	17.06	17.04	17.02	16.99	16.97	16.95
4	4	223	16.93	16.91	16.88	16.86	16.84	16.82	16.80	16.78	16.75	16.73
4	4	233	16.71	16.69	16.67	16.65	16.62	16.60	16.58	16.56	16.54	16.52
4	4	243	16.50	16.47	16.45	16.43	16.41	16.39	16.37	16.35	16.33	16.31
5	5	253	16.29	16.24	16.18	16.13	16.07	16.01	15.96	15.91	15.85	15.80
5	5	263	15.74	15.69	15.64	15.58	15.53	15.48	15.42	15.37	15.32	15.27
5	5	273	15.21	15.16	15.11	15.06	15.01	14.96	14.91	14.85	14.80	14.75
5	5	283	14.70	14.65	14.60	14.55	14.51	14.46	14.41	14.36	14.31	14.26
5	5	293	14.21	14.17	14.12	14.07	14.02	13.97	13.93	13.88	13.83	13.79
5	5	303	13.74	13.70	13.65	13.60	13.56	13.51	13.47	13.42	13.38	13.33
5	5	313	13.29	13.24	13.20							
6	6	316	13.14	13.08	13.02	12.96	12.91	12.85	12.79	12.74	12.68	12.63
6	6	326	12.57	12.52	12.46	12.41	12.35	12.30	12.25	12.19	12.14	12.09
6	6	336	12.03	11.98	11.93	11.88	11.83	11.78	11.72	11.67	11.59	11.32
17	17	526	9.39	9.38	9.36	9.35	9.28	8.45				
7	7	346	3.25	3.08	2.92	2.78	2.64	2.50	2.38	2.26	2.14	2.03
7	7	356	1.93	1.84	1.74	1.66	1.57	1.49	1.42	1.35	1.28	1.22
7	7	366	1.16	1.10								
8	8	368	2.65	2.87	2.93	2.96	2.97	2.97	2.98	2.98	2.98	
9	9	377	3.58	4.01	4.34	4.59	4.79	4.94	5.06	5.16	5.24	5.31
9	9	387	5.36	5.41	5.45							

10	10	390	5.48	5.51	5.54	5.57	5.59	5.62	5.65	5.67	5.70
11	11	399	5.71	5.73	5.74	5.76	5.77	5.78	5.80	5.81	5.82	5.84
11	11	409	5.85	5.86	5.88	5.89	5.90	5.91	5.93	5.94	5.95
12	12	418	5.98	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20
12	12	428	6.22	6.25	6.33
13	13	431	7.95	7.94
14	14	433	7.93	7.91	7.88	7.86	7.84	7.82	7.80	7.78	7.76	7.74
14	14	443	7.72	7.70
15	15	445	7.68	7.66	7.64	7.62	7.61	7.59	7.57	7.55	7.53	7.52
15	15	455	7.50	7.48	7.46	7.45	7.43	7.41	7.39	7.38	7.36	7.34
15	15	465	7.33	7.31	7.29	7.27	7.26	7.24	7.22	7.21	7.19	7.18
15	15	475	7.16	7.14	7.13	7.11	7.09	7.08	7.06	7.05	7.03	7.01
15	15	485	7.00	6.98	6.97	6.95	6.94	6.92	6.91	6.89	6.88	6.86
15	15	495	6.85	6.83	6.82	6.80	6.79	6.77	6.76	6.74	6.73	6.71
15	15	505	6.70	6.68	6.67	6.66	6.64	6.63	6.61	6.60	6.59	6.57
15	15	515	6.56	6.54	6.53
16	16	518	6.52	6.50	6.49	6.48	6.46	6.45	6.44	6.52

INTERMEDIATE REPORT

Biochemical Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	21	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	31	16.08	16.08	16.08
2	2	34	16.11	16.14	16.17	16.20	16.23	16.26	16.29	16.32	16.35	16.38
2	2	44	16.41	16.44	16.47	16.50	16.52	16.55	16.58	16.61	16.64	16.67
2	2	54	16.70	16.73	16.75	16.78	16.81	16.84	16.87	16.90	16.92	16.95
2	2	64	16.98	17.01	17.04	17.06	17.09	17.12	17.15	17.18	17.20	17.23
2	2	74	17.26	17.29	17.31	17.34	17.37	17.40	17.42	17.45	17.48	17.50
2	2	84	17.53	17.56	17.58	17.61	17.64	17.66	17.69	17.72	17.74	17.77
2	2	94	17.80	17.82	17.85	17.88	17.90	17.93	17.95	17.98	18.01	18.03
2	2	104	18.06	18.08	18.11	18.13	18.16	18.18	18.21	18.24	18.26	18.29
2	2	114	18.31	18.34	18.36	18.39	18.41	18.44	18.46	18.49	18.51	18.54
2	2	124	18.56	18.59	18.61	18.64	18.66	18.68	18.71	18.73	18.76	18.78
2	2	134	18.81	18.83	18.85	18.88	18.90	18.93	18.95	18.97	19.00	19.02
2	2	144	19.05	19.07	19.09	19.12	19.14	19.16	19.19	19.21	19.23	19.26
2	2	154	19.28	19.30	19.33	19.35	19.37	19.40	19.42
3	3	161	19.40	19.39	19.37	19.35	19.34	19.32	19.30	19.28	19.27	19.25
3	3	171	19.23	19.21	19.20	19.18	19.16	19.15	19.13	19.11	19.10	19.08
3	3	181	19.06	19.04	19.03	19.01	18.99	18.98	18.96	18.94	18.93	18.91
3	3	191	18.89	18.88	18.86	18.84	18.82	18.81	18.79	18.77	18.76	18.74
3	3	201	18.72	18.71	18.69	18.67	18.66	18.64	18.62	18.61	18.59	18.58
3	3	211	18.56	18.50
4	4	213	17.15	17.13	17.10	17.08	17.06	17.04	17.02	16.99	16.97	16.95
4	4	223	16.93	16.91	16.88	16.86	16.84	16.82	16.80	16.78	16.75	16.73
4	4	233	16.71	16.69	16.67	16.65	16.62	16.60	16.58	16.56	16.54	16.52
4	4	243	16.50	16.47	16.45	16.43	16.41	16.39	16.37	16.35	16.33	16.31
5	5	253	16.29	16.24	16.18	16.13	16.07	16.01	15.96	15.91	15.85	15.80
5	5	263	15.74	15.69	15.64	15.58	15.53	15.48	15.42	15.37	15.32	15.27

5	5	273	15.21	15.16	15.11	15.06	15.01	14.96	14.91	14.85	14.80	14.75
5	5	283	14.70	14.65	14.60	14.55	14.51	14.46	14.41	14.36	14.31	14.26
5	5	293	14.21	14.17	14.12	14.07	14.02	13.97	13.93	13.88	13.83	13.79
5	5	303	13.74	13.70	13.65	13.60	13.56	13.51	13.47	13.42	13.38	13.33
5	5	313	13.29	13.24	13.20							
6	6	316	13.14	13.08	13.02	12.96	12.91	12.85	12.79	12.74	12.68	12.63
6	6	326	12.57	12.52	12.46	12.41	12.35	12.30	12.25	12.19	12.14	12.09
6	6	336	12.03	11.98	11.93	11.88	11.83	11.78	11.72	11.67	11.59	11.32
17	17	526	9.39	9.38	9.36	9.35	9.28	8.45				
7	7	346	3.25	3.08	2.92	2.78	2.64	2.50	2.38	2.26	2.14	2.03
7	7	356	1.93	1.84	1.74	1.66	1.57	1.49	1.42	1.35	1.28	1.22
7	7	366	1.16	1.10								
8	8	368	2.65	2.87	2.93	2.96	2.97	2.97	2.98	2.98	2.98	
9	9	377	3.58	4.01	4.34	4.59	4.79	4.94	5.06	5.16	5.24	5.31
9	9	387	5.36	5.41	5.45							
10	10	390	5.48	5.51	5.54	5.57	5.59	5.62	5.65	5.67	5.70	
11	11	399	5.71	5.73	5.74	5.76	5.77	5.78	5.80	5.81	5.82	5.84
11	11	409	5.85	5.86	5.88	5.89	5.90	5.91	5.93	5.94	5.95	
12	12	418	5.98	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20
12	12	428	6.22	6.25	6.33							
13	13	431	7.95	7.94								
14	14	433	7.93	7.91	7.88	7.86	7.84	7.82	7.80	7.78	7.76	7.74
14	14	443	7.72	7.70								
15	15	445	7.68	7.66	7.64	7.62	7.61	7.59	7.57	7.55	7.53	7.52
15	15	455	7.50	7.48	7.46	7.45	7.43	7.41	7.39	7.38	7.36	7.34
15	15	465	7.33	7.31	7.29	7.27	7.26	7.24	7.22	7.21	7.19	7.18
15	15	475	7.16	7.14	7.13	7.11	7.09	7.08	7.06	7.05	7.03	7.01
15	15	485	7.00	6.98	6.97	6.95	6.94	6.92	6.91	6.89	6.88	6.86
15	15	495	6.85	6.83	6.82	6.80	6.79	6.77	6.76	6.74	6.73	6.71
15	15	505	6.70	6.68	6.67	6.66	6.64	6.63	6.61	6.60	6.59	6.57
15	15	515	6.56	6.54	6.53							
16	16	518	6.52	6.50	6.49	6.48	6.46	6.45	6.44	6.52		

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
1	1	11	1.60	1.60	1.60	1.60	1.59	1.59	1.59	1.59	1.59	1.59
1	1	21	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
1	1	31	1.59	1.59	1.59							
2	2	34	1.59	1.59	1.59	1.60	1.60	1.60	1.60	1.60	1.60	1.61
2	2	44	1.61	1.61	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62
2	2	54	1.63	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64
2	2	64	1.64	1.64	1.65	1.65	1.65	1.65	1.65	1.65	1.66	1.66
2	2	74	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67	1.67	1.67
2	2	84	1.68	1.68	1.68	1.68	1.68	1.68	1.69	1.69	1.69	1.69
2	2	94	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.71
2	2	104	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.72	1.72
2	2	114	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.74	1.74	1.74
2	2	124	1.74	1.74	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.76

2	2	134	1.76	1.76	1.76	1.76	1.76	1.76	1.77	1.77	1.77	1.77
2	2	144	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.79
2	2	154	1.79	1.79	1.79	1.79	1.79	1.80	1.80			
3	3	161	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79
3	3	171	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
3	3	181	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
3	3	191	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.77	1.77
3	3	201	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
3	3	211	1.77	1.77								
4	4	213	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.78	1.78
4	4	223	1.78	1.78	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77
4	4	233	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.76
4	4	243	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
5	5	253	1.76	1.75	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74
5	5	263	1.73	1.73	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.72
5	5	273	1.71	1.71	1.71	1.71	1.71	1.70	1.70	1.70	1.70	1.70
5	5	283	1.69	1.69	1.69	1.69	1.68	1.68	1.68	1.68	1.68	1.67
5	5	293	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.66	1.65
5	5	303	1.65	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64	1.64
5	5	313	1.63	1.63	1.63							
6	6	316	1.63	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.60	1.60
6	6	326	1.60	1.60	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58
6	6	336	1.57	1.57	1.57	1.56	1.56	1.56	1.56	1.56	1.56	1.60
17	17	526	1.93	1.93	1.93	1.93	1.91	1.69				
7	7	346	0.89	0.87	0.86	0.85	0.83	0.82	0.81	0.79	0.78	0.77
7	7	356	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66
7	7	366	0.65	0.64								
8	8	368	0.75	0.77	0.78	0.79	0.79	0.79	0.79	0.79	0.79	
9	9	377	1.05	1.25	1.41	1.54	1.65	1.73	1.80	1.86	1.92	1.96
9	9	387	2.00	2.03	2.06							
10	10	390	2.04	2.03	2.01	2.00	1.98	1.97	1.96	1.94	1.93	
11	11	399	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.88	1.87	1.87
11	11	409	1.86	1.86	1.85	1.85	1.84	1.83	1.83	1.82	1.82	
12	12	418	1.81	1.80	1.80	1.79	1.79	1.78	1.77	1.77	1.76	1.75
12	12	428	1.75	1.74	1.78							
13	13	431	2.76	2.76								
14	14	433	2.76	2.76	2.75	2.75	2.75	2.74	2.74	2.74	2.73	2.73
14	14	443	2.73	2.72								
15	15	445	2.72	2.72	2.71	2.71	2.70	2.70	2.70	2.69	2.69	2.69
15	15	455	2.68	2.68	2.68	2.67	2.67	2.67	2.66	2.66	2.66	2.65
15	15	465	2.65	2.65	2.64	2.64	2.64	2.63	2.63	2.62	2.62	2.62
15	15	475	2.61	2.61	2.61	2.60	2.60	2.60	2.59	2.59	2.59	2.59
15	15	485	2.58	2.58	2.58	2.57	2.57	2.57	2.56	2.56	2.56	2.55
15	15	495	2.55	2.55	2.54	2.54	2.54	2.53	2.53	2.53	2.52	2.52
15	15	505	2.52	2.51	2.51	2.51	2.51	2.50	2.50	2.50	2.49	2.49
15	15	515	2.49	2.48	2.48							
16	16	518	2.48	2.47	2.47	2.47	2.47	2.46	2.46	2.44		

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	21	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	31	0.10	0.10	0.10							
2	2	34	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	44	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	54	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	64	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	74	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	84	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	94	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	104	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	114	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	124	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	134	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	144	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	154	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
3	3	161	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	171	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	181	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	191	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	201	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	211	0.11	0.11								
4	4	213	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	223	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	233	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	243	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	253	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
5	5	263	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	273	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	283	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	293	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	303	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	313	0.11	0.11	0.11							
6	6	316	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	326	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	336	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
17	17	526	0.12	0.12	0.12	0.12	0.12	0.12				
7	7	346	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09
7	7	356	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08
7	7	366	0.08	0.08								
8	8	368	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
9	9	377	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15
9	9	387	0.16	0.16	0.16							
10	10	390	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	
11	11	399	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
11	11	409	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
12	12	418	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	12	428	0.14	0.13	0.13							

13	13	431	0.10	0.10								
14	14	433	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
14	14	443	0.11	0.11								
15	15	445	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12
15	15	455	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
15	15	465	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	475	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	485	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	495	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	505	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	515	0.14	0.14	0.14							
16	16	518	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.54
1	1	11	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53
1	1	21	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51
1	1	31	0.51	0.51	0.51							
2	2	34	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49
2	2	44	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47
2	2	54	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.45	0.45
2	2	64	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44
2	2	74	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42
2	2	84	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40
2	2	94	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.38
2	2	104	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
2	2	114	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35
2	2	124	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33
2	2	134	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32
2	2	144	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30
2	2	154	0.30	0.30	0.30	0.29	0.29	0.29	0.29			
3	3	161	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
3	3	171	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24
3	3	181	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22
3	3	191	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20
3	3	201	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
3	3	211	0.18	0.18								
4	4	213	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13
4	4	223	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11
4	4	233	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
4	4	243	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07
5	5	253	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03
5	5	263	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							

6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.26	2.26	2.25	2.25	2.25	2.25	2.25	2.24	2.24	2.24
1	1	11	2.24	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.22	2.22
1	1	21	2.22	2.22	2.22	2.21	2.21	2.21	2.21	2.21	2.20	2.20
1	1	31	2.20	2.20	2.20							
2	2	34	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
2	2	44	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
2	2	54	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.19	2.19	2.19
2	2	64	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	74	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	84	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	94	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	104	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	114	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	124	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	134	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	144	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	154	2.19	2.19	2.19	2.19	2.19	2.19	2.19			
3	3	161	2.19	2.18	2.18	2.18	2.18	2.17	2.17	2.17	2.16	2.16
3	3	171	2.16	2.15	2.15	2.15	2.15	2.14	2.14	2.14	2.14	2.13

3	3	181	2.13	2.13	2.12	2.12	2.12	2.12	2.11	2.11	2.11	2.11
3	3	191	2.10	2.10	2.10	2.09	2.09	2.09	2.09	2.08	2.08	2.08
3	3	201	2.08	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.06
3	3	211	2.05	2.05								
4	4	213	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02
4	4	223	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.98
4	4	233	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96
4	4	243	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.93
5	5	253	1.93	1.92	1.92	1.91	1.90	1.90	1.89	1.89	1.88	1.87
5	5	263	1.87	1.86	1.86	1.85	1.84	1.84	1.83	1.83	1.82	1.82
5	5	273	1.82	1.82	1.82	1.81	1.81	1.81	1.81	1.81	1.80	1.80
5	5	283	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.78	1.78
5	5	293	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.76
5	5	303	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.75	1.75	1.74
5	5	313	1.74	1.74	1.74							
6	6	316	1.74	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.71	1.71
6	6	326	1.71	1.71	1.70	1.70	1.70	1.69	1.69	1.69	1.69	1.68
6	6	336	1.68	1.68	1.68	1.67	1.67	1.67	1.67	1.66	1.67	1.71
17	17	526	2.06	2.05	2.05	2.05	2.04	1.81				
7	7	346	1.01	0.99	0.96	0.94	0.93	0.92	0.90	0.89	0.88	0.86
7	7	356	0.85	0.84	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74
7	7	366	0.73	0.72								
8	8	368	0.83	0.86	0.87	0.87	0.87	0.88	0.88	0.88	0.88	
9	9	377	1.15	1.36	1.52	1.66	1.77	1.86	1.94	2.01	2.06	2.11
9	9	387	2.15	2.19	2.22							
10	10	390	2.20	2.19	2.17	2.15	2.14	2.12	2.11	2.09	2.08	
11	11	399	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.03	2.02	2.01
11	11	409	2.01	2.00	1.99	1.99	1.98	1.98	1.97	1.97	1.96	
12	12	418	1.95	1.95	1.94	1.93	1.92	1.92	1.91	1.90	1.90	1.89
12	12	428	1.88	1.88	1.91							
13	13	431	2.86	2.86								
14	14	433	2.86	2.86	2.85	2.85	2.85	2.85	2.84	2.84	2.84	2.84
14	14	443	2.83	2.83								
15	15	445	2.83	2.83	2.82	2.82	2.82	2.82	2.81	2.81	2.81	2.80
15	15	455	2.80	2.80	2.80	2.79	2.79	2.79	2.78	2.78	2.78	2.78
15	15	465	2.77	2.77	2.77	2.76	2.76	2.76	2.76	2.75	2.75	2.75
15	15	475	2.74	2.74	2.74	2.74	2.73	2.73	2.73	2.72	2.72	2.72
15	15	485	2.72	2.71	2.71	2.71	2.70	2.70	2.70	2.70	2.69	2.69
15	15	495	2.69	2.68	2.68	2.68	2.68	2.67	2.67	2.67	2.66	2.66
15	15	505	2.66	2.66	2.65	2.65	2.65	2.64	2.64	2.64	2.64	2.63
15	15	515	2.63	2.63	2.62							
16	16	518	2.62	2.62	2.62	2.61	2.61	2.61	2.60	2.58		

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

µg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	70.15	70.30	70.45	70.61	70.76	70.91	71.06	71.21	71.36	71.52
1	1	11	71.67	71.82	71.97	72.12	72.27	72.42	72.58	72.73	72.88	73.03
1	1	21	73.18	73.33	73.48	73.64	73.79	73.94	74.09	74.24	74.39	74.55
1	1	31	74.70	74.85	75.00							

2	2	34	75.04	75.08	75.12	75.16	75.20	75.24	75.28	75.31	75.35	75.39
2	2	44	75.43	75.47	75.51	75.55	75.59	75.63	75.67	75.71	75.75	75.79
2	2	54	75.83	75.87	75.91	75.94	75.98	76.02	76.06	76.10	76.14	76.18
2	2	64	76.22	76.26	76.30	76.34	76.38	76.42	76.46	76.50	76.54	76.57
2	2	74	76.61	76.65	76.69	76.73	76.77	76.81	76.85	76.89	76.93	76.97
2	2	84	77.01	77.05	77.09	77.13	77.17	77.20	77.24	77.28	77.32	77.36
2	2	94	77.40	77.44	77.48	77.52	77.56	77.60	77.64	77.68	77.72	77.76
2	2	104	77.80	77.83	77.87	77.91	77.95	77.99	78.03	78.07	78.11	78.15
2	2	114	78.19	78.23	78.27	78.31	78.35	78.39	78.43	78.46	78.50	78.54
2	2	124	78.58	78.62	78.66	78.70	78.74	78.78	78.82	78.86	78.90	78.94
2	2	134	78.98	79.02	79.06	79.09	79.13	79.17	79.21	79.25	79.29	79.33
2	2	144	79.37	79.41	79.45	79.49	79.53	79.57	79.61	79.65	79.69	79.72
2	2	154	79.76	79.80	79.84	79.88	79.92	79.96	80.00			
3	3	161	79.62	79.23	78.85	78.46	78.08	77.69	77.31	76.92	76.54	76.15
3	3	171	75.77	75.38	75.00	74.62	74.23	73.85	73.46	73.08	72.69	72.31
3	3	181	71.92	71.54	71.15	70.77	70.38	70.00	69.62	69.23	68.85	68.46
3	3	191	68.08	67.69	67.31	66.92	66.54	66.15	65.77	65.38	65.00	64.62
3	3	201	64.23	63.85	63.46	63.08	62.69	62.31	61.92	61.54	61.15	60.77
3	3	211	60.38	60.00								
4	4	213	59.50	59.00	58.50	58.00	57.50	57.00	56.50	56.00	55.50	55.00
4	4	223	54.50	54.00	53.50	53.00	52.50	52.00	51.50	51.00	50.50	50.00
4	4	233	49.50	49.00	48.50	48.00	47.50	47.00	46.50	46.00	45.50	45.00
4	4	243	44.50	44.00	43.50	43.00	42.50	42.00	41.50	41.00	40.50	40.00
5	5	253	39.75	39.49	39.24	38.98	38.73	38.48	38.22	37.97	37.71	37.46
5	5	263	37.21	36.95	36.70	36.44	36.19	35.94	35.68	35.43	35.17	34.92
5	5	273	34.67	34.41	34.16	33.90	33.65	33.40	33.14	32.89	32.63	32.38
5	5	283	32.13	31.87	31.62	31.37	31.11	30.86	30.60	30.35	30.10	29.84
5	5	293	29.59	29.33	29.08	28.83	28.57	28.32	28.06	27.81	27.56	27.30
5	5	303	27.05	26.79	26.54	26.29	26.03	25.78	25.52	25.27	25.02	24.76
5	5	313	24.51	24.25	24.00							
6	6	316	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	326	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	336	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
17	17	526	24.00	24.00	24.00	24.00	24.00	24.00				
7	7	346	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	356	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	366	10.00	10.00								
8	8	368	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
9	9	377	11.15	12.31	13.46	14.62	15.77	16.92	18.08	19.23	20.38	21.54
9	9	387	22.69	23.85	25.00							
10	10	390	26.44	27.89	29.33	30.78	32.22	33.67	35.11	36.56	38.00	
11	11	399	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
11	11	409	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	
12	12	418	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
12	12	428	38.00	38.00	38.00							
13	13	431	38.00	38.00								
14	14	433	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
14	14	443	38.00	38.00								
15	15	445	37.89	37.78	37.67	37.56	37.45	37.34	37.23	37.12	37.01	36.90
15	15	455	36.79	36.68	36.58	36.47	36.36	36.25	36.14	36.03	35.92	35.81

15	15	465	35.70	35.59	35.48	35.37	35.26	35.15	35.04	34.93	34.82	34.71
15	15	475	34.60	34.49	34.38	34.27	34.16	34.05	33.95	33.84	33.73	33.62
15	15	485	33.51	33.40	33.29	33.18	33.07	32.96	32.85	32.74	32.63	32.52
15	15	495	32.41	32.30	32.19	32.08	31.97	31.86	31.75	31.64	31.53	31.42
15	15	505	31.32	31.21	31.10	30.99	30.88	30.77	30.66	30.55	30.44	30.33
15	15	515	30.22	30.11	30.00							
16	16	518	29.25	28.50	27.75	27.00	26.25	25.50	24.75	24.00		

INTERMEDIATE REPORT

Temperature LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

deg C Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.22	31.24	31.25	31.27	31.29	31.31	31.33	31.35	31.36	31.38
1	1	11	31.40	31.42	31.44	31.45	31.47	31.49	31.51	31.53	31.55	31.56
1	1	21	31.58	31.60	31.62	31.64	31.65	31.67	31.69	31.71	31.73	31.75
1	1	31	31.76	31.78	31.80							
2	2	34	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	44	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	54	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	64	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	74	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	84	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	94	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	104	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	114	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	124	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	134	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	144	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	154	31.80	31.80	31.80	31.80	31.80	31.80	31.80			
3	3	161	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	171	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	181	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	191	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	201	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	211	31.80	31.80								
4	4	213	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	223	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	233	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	243	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	253	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	263	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	273	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	283	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	293	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	303	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	313	31.80	31.80	31.80							
6	6	316	31.82	31.83	31.85	31.87	31.88	31.90	31.92	31.93	31.95	31.97
6	6	326	31.98	32.00	32.02	32.03	32.05	32.07	32.08	32.10	32.12	32.13
6	6	336	32.15	32.17	32.18	32.20	32.22	32.23	32.25	32.27	32.28	32.30
17	17	526	32.28	32.27	32.25	32.23	32.22	32.20				
7	7	346	31.48	31.45	31.43	31.41	31.39	31.36	31.34	31.32	31.30	31.27

7	7	356	31.25	31.23	31.20	31.18	31.16	31.14	31.11	31.09	31.07	31.05
7	7	366	31.02	31.00								
8	8	368	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	
9	9	377	31.04	31.08	31.12	31.15	31.19	31.23	31.27	31.31	31.35	31.38
9	9	387	31.42	31.46	31.50							
10	10	390	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
11	11	399	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
11	11	409	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
12	12	418	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
12	12	428	31.50	31.50	31.50							
13	13	431	31.50	31.50								
14	14	433	31.57	31.63	31.70	31.77	31.83	31.90	31.97	32.03	32.10	32.17
14	14	443	32.23	32.30								
15	15	445	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	455	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	465	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	475	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	485	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	495	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	505	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	515	32.30	32.30	32.30							
16	16	518	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30		

INTERMEDIATE REPORT

Salinity — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

ppt — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

km Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	35.	35.	35.	35.	35.	35.	34.	34.	34.	34.
1	1	11	34.	34.	34.	34.	34.	34.	33.	33.	33.	33.
1	1	21	33.	33.	33.	33.	33.	33.	32.	32.	32.	32.
1	1	31	32.	32.	32.							
2	2	34	32.	32.	31.	31.	31.	31.	31.	31.	31.	31.
2	2	44	31.	31.	30.	30.	30.	30.	30.	30.	30.	30.
2	2	54	30.	30.	29.	29.	29.	29.	29.	29.	29.	29.
2	2	64	29.	29.	28.	28.	28.	28.	28.	28.	28.	28.
2	2	74	28.	28.	27.	27.	27.	27.	27.	27.	27.	27.

2	2	84	27.	27.	26.	26.	26.	26.	26.	26.	26.	26.
2	2	94	26.	26.	25.	25.	25.	25.	25.	25.	25.	25.
2	2	104	25.	25.	24.	24.	24.	24.	24.	24.	24.	24.
2	2	114	24.	24.	23.	23.	23.	23.	23.	23.	23.	23.
2	2	124	23.	23.	22.	22.	22.	22.	22.	22.	22.	22.
2	2	134	22.	22.	21.	21.	21.	21.	21.	21.	21.	21.
2	2	144	21.	21.	20.	20.	20.	20.	20.	20.	20.	20.
2	2	154	20.	20.	19.	19.	19.	19.	19.			
3	3	161	19.	19.	19.	19.	19.	18.	18.	18.	18.	18.
3	3	171	18.	18.	18.	18.	18.	17.	17.	17.	17.	17.
3	3	181	17.	17.	17.	17.	17.	16.	16.	16.	16.	16.
3	3	191	16.	16.	16.	16.	16.	15.	15.	15.	15.	15.
3	3	201	15.	15.	15.	15.	15.	14.	14.	14.	14.	14.
3	3	211	14.	14.								
4	4	213	14.	14.	14.	13.	13.	13.	13.	13.	13.	13.
4	4	223	13.	13.	13.	12.	12.	12.	12.	12.	12.	12.
4	4	233	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
4	4	243	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
5	5	253	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.
5	5	263	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.
5	5	273	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
5	5	283	7.	7.	7.	6.	6.	6.	6.	6.	6.	6.
5	5	293	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.
5	5	303	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.
5	5	313	4.	4.	4.							
6	6	316	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
6	6	326	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.
6	6	336	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
17	17	526	0.	0.	0.	0.	0.	0.				
7	7	346	18.	18.	18.	18.	17.	17.	17.	17.	17.	17.
7	7	356	17.	17.	17.	17.	16.	16.	16.	16.	16.	16.
7	7	366	16.	16.								
8	8	368	16.	16.	15.	15.	15.	15.	15.	15.	15.	
9	9	377	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
9	9	387	14.	14.	14.							
10	10	390	14.	13.	13.	13.	13.	13.	13.	13.	13.	
11	11	399	13.	12.	12.	12.	12.	12.	12.	12.	12.	12.
11	11	409	12.	11.	11.	11.	11.	11.	11.	11.	11.	
12	12	418	11.	11.	10.	10.	10.	10.	10.	10.	10.	10.
12	12	428	10.	10.	9.							
13	13	431	9.	9.								
14	14	433	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.
14	14	443	8.	8.								
15	15	445	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.
15	15	455	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.
15	15	465	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.
15	15	475	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.
15	15	485	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.
15	15	495	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.
15	15	505	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.

15 15 515 1. 1. 1.
16 16 518 1. 1. 0. 0. 0. 0. 0. 0.

INTERMEDIATE REPORT

Flow LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
m³/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	30.7	30.7	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
1	1	11	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.5
1	1	21	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
1	1	31	30.5	30.5	30.5							
2	2	34	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2	2	44	30.5	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	54	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	64	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	74	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	84	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	94	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	104	30.4	30.4	30.4	30.4	30.3	30.3	30.3	30.3	30.3	30.3
2	2	114	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	124	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	134	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	144	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	154	30.3	30.3	30.3	30.3	30.3	30.3	30.3			
3	3	161	23.0	23.0	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9
3	3	171	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
3	3	181	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.8
3	3	191	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
3	3	201	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
3	3	211	22.8	22.8								
4	4	213	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
4	4	223	25.0	25.0	25.0	25.0	25.0	24.9	24.9	24.9	24.9	24.9
4	4	233	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
4	4	243	24.9	24.9	24.9	24.9	24.9	24.8	24.8	24.8	24.8	24.8
5	5	253	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
5	5	263	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	273	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	283	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	293	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	303	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	313	5.3	5.3	5.3							
6	6	316	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.2	5.2	5.2
6	6	326	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
6	6	336	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
17	17	526	8.8	8.8	8.8	8.8	8.8	8.8				
7	7	346	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	356	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	366	0.1	0.1								
8	8	368	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.7	
9	9	377	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2
9	9	387	3.3	3.5	3.6							

10	10	390	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
11	11	399	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
11	11	409	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
12	12	418	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
12	12	428	3.6	3.6	3.6							
13	13	431	6.7	6.7								
14	14	433	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
14	14	443	3.5	3.5								
15	15	445	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
15	15	455	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6
15	15	465	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	475	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	485	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	495	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7
15	15	505	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
15	15	515	3.7	3.7	3.7							
16	16	518	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7		

INTERMEDIATE REPORT

Dispersion LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m^2/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	11	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	21	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	31	0.6	0.6	0.6							
2	2	34	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	44	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	54	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	64	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	74	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	84	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	94	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	104	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	114	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	124	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	134	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	144	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	154	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
3	3	161	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	171	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	181	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	191	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	201	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	211	0.4	0.4								
4	4	213	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	223	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	233	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	243	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
5	5	253	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
5	5	263	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

5	5	273	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	283	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	293	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	303	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	313	0.3	0.3	0.3							
6	6	316	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	326	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	336	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	17	526	0.5	0.5	0.5	0.5	0.5	0.5				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11	11	409	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
12	12	418	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	12	428	0.2	0.2	0.2							
13	13	431	0.1	0.1								
14	14	433	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14	14	443	0.1	0.1								
15	15	445	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	455	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	485	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	495	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	505	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	515	0.1	0.1	0.1							
16	16	518	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		

INTERMEDIATE REPORT

Advective Velocity LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
1	1	11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	1	21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	1	31	0.2	0.2	0.2							
2	2	34	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	44	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	54	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	64	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	74	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	84	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	94	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	104	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	114	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	124	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

2	2	134	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	144	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	154	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
3	3	161	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	171	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	181	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	191	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	201	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	211	0.1	0.1								
4	4	213	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	223	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	233	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	243	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5	5	253	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	263	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	273	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	283	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	293	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	313	0.0	0.0	0.0							
6	6	316	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	17	526	0.1	0.1	0.1	0.1	0.1	0.1				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	11	409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	12	418	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	12	428	0.0	0.0	0.0							
13	13	431	0.1	0.1								
14	14	433	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	14	443	0.0	0.0								
15	15	445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	475	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	485	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	495	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	505	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	515	0.0	0.0	0.0							
16	16	518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Depth LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	31	1.0	1.0	1.0							
2	2	34	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	44	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	54	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	64	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	74	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	84	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	94	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	104	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	114	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	124	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	134	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	144	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	154	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
3	3	161	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	171	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	181	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	191	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	201	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	211	1.8	1.8								
4	4	213	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	223	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	233	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	243	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	253	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	263	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	273	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	283	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	293	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	303	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	313	1.8	1.8	1.8							
6	6	316	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	326	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	336	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
17	17	526	1.4	1.4	1.4	1.4	1.4	1.4				
7	7	346	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	356	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	366	1.8	1.8								
8	8	368	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
9	9	377	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
9	9	387	1.8	1.8	1.8							
10	10	390	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
11	11	399	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
11	11	409	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
12	12	418	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
12	12	428	1.4	1.4	1.4							

13	13	431	1.4	1.4								
14	14	433	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
14	14	443	1.4	1.4								
15	15	445	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	455	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	465	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	475	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	485	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	495	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	505	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	515	1.4	1.4	1.4							
16	16	518	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		

INTERMEDIATE REPORT

Width LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	171	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	181	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	191	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	201	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	211	90.0	90.0								
4	4	213	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	223	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	233	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	243	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
5	5	253	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	263	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	273	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	283	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	293	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	303	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	313	90.0	90.0	90.0							

6	6	316	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
6	6	326	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
6	6	336	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
17	17	526	88.0	88.0	88.0	88.0	88.0	88.0				
7	7	346	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	356	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	366	35.0	35.0								
8	8	368	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	
9	9	377	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
9	9	387	983.0	983.0	983.0							
10	10	390	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	
11	11	399	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
11	11	409	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
12	12	418	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
12	12	428	72.0	72.0	72.0							
13	13	431	72.0	72.0								
14	14	433	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
14	14	443	70.0	70.0								
15	15	445	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	455	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	465	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	475	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	485	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	495	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	505	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	515	65.0	65.0	65.0							
16	16	518	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0		

INTERMEDIATE REPORT

Cross-Sectional Area LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m^2 Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	171	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1

3	3	181	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	191	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	201	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	211	159.1	159.1								
4	4	213	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	223	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	233	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	243	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
5	5	253	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	263	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	273	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	283	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	293	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	303	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	313	159.1	159.1	159.1							
6	6	316	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	326	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	336	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
17	17	526	123.4	123.4	123.4	123.4	123.4	123.4				
7	7	346	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	356	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	366	61.9	61.9								
8	8	368	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6
9	9	377	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
9	9	387	1737.9	1737.9	1737.9							
10	10	390	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	
11	11	399	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
11	11	409	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	
12	12	418	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
12	12	428	100.9	100.9	100.9							
13	13	431	100.9	100.9								
14	14	433	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
14	14	443	98.1	98.1								
15	15	445	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	455	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	465	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	475	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	485	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	495	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	505	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	515	91.1	91.1	91.1							
16	16	518	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1		

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.302	2.302	2.303	2.303	2.304	2.304	2.305	2.305	2.306	2.306
1	1	11	2.307	2.307	2.307	2.308	2.308	2.309	2.309	2.310	2.310	2.311
1	1	21	2.311	2.312	2.312	2.313	2.313	2.314	2.314	2.315	2.315	2.316
1	1	31	2.316	2.317	2.317							

2	2	34	2.567	2.567	2.567	2.567	2.567	2.567	2.567	2.566	2.566	2.566
2	2	44	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566
2	2	54	2.566	2.566	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.565
2	2	64	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.564	2.564	2.564
2	2	74	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564
2	2	84	2.564	2.564	2.563	2.563	2.563	2.563	2.563	2.563	2.563	2.563
2	2	94	2.563	2.563	2.563	2.563	2.563	2.563	2.563	2.562	2.562	2.562
2	2	104	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562
2	2	114	2.562	2.562	2.561	2.561	2.561	2.561	2.561	2.561	2.561	2.561
2	2	124	2.561	2.561	2.561	2.561	2.561	2.561	2.561	2.560	2.560	2.560
2	2	134	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560
2	2	144	2.560	2.560	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
2	2	154	2.559	2.559	2.559	2.559	2.559	2.559	2.559			
3	3	161	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788
3	3	171	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
3	3	181	0.787	0.787	0.787	0.787	0.787	0.786	0.786	0.786	0.786	0.786
3	3	191	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786
3	3	201	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785
3	3	211	0.785	0.785								
4	4	213	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.626	0.626
4	4	223	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
4	4	233	0.626	0.626	0.626	0.626	0.625	0.625	0.625	0.625	0.625	0.625
4	4	243	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.624
5	5	253	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	263	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	273	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	283	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	293	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	303	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	313	0.491	0.491	0.491							
6	6	316	0.491	0.491	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.493
6	6	326	0.493	0.493	0.493	0.493	0.493	0.493	0.494	0.494	0.494	0.494
6	6	336	0.494	0.494	0.494	0.494	0.495	0.495	0.495	0.495	0.495	0.495
17	17	526	0.792	0.791	0.791	0.791	0.791	0.790				
7	7	346	0.488	0.488	0.488	0.488	0.488	0.488	0.487	0.487	0.487	0.487
7	7	356	0.487	0.486	0.486	0.486	0.486	0.486	0.485	0.485	0.485	0.485
7	7	366	0.485	0.485								
8	8	368	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	
9	9	377	0.644	0.645	0.645	0.645	0.646	0.646	0.647	0.647	0.648	0.648
9	9	387	0.648	0.649	0.649							
10	10	390	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
11	11	399	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489
11	11	409	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
12	12	418	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
12	12	428	0.616	0.616	0.616							
13	13	431	0.751	0.751								
14	14	433	0.617	0.618	0.618	0.619	0.620	0.620	0.621	0.622	0.622	0.623
14	14	443	0.624	0.625								
15	15	445	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	455	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625

15	15	465	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	475	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	485	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	495	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	505	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	515	0.625	0.625	0.625							
16	16	518	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625		

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

per day — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	11	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	21	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21
1	1	31	0.21	0.21	0.21							
2	2	34	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	44	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	54	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	64	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	74	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	84	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	94	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	104	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	114	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	124	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	134	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	144	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	154	0.21	0.21	0.21	0.21	0.21	0.21	0.21			
3	3	161	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	171	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	181	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	191	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	201	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	211	0.09	0.09								
4	4	213	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	223	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	233	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	243	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	253	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	263	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	273	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	283	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	293	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	303	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	313	0.09	0.09	0.09							
6	6	316	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	326	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	336	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
17	17	526	0.09	0.09	0.09	0.09	0.09	0.09				
7	7	346	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

7	7	356	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
7	7	366	0.08	0.08								
8	8	368	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
9	9	377	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
9	9	387	0.08	0.08	0.08							
10	10	390	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
11	11	399	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11	11	409	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
12	12	418	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
12	12	428	0.08	0.08	0.08							
13	13	431	0.08	0.08								
14	14	433	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
14	14	443	0.09	0.09								
15	15	445	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	455	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	465	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	475	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	485	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	495	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	505	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	515	0.09	0.09	0.09							
16	16	518	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		

INTERMEDIATE REPORT

BOD Settling Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Ammonia Decay Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
1	1	11	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
1	1	21	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37
1	1	31	0.37	0.37	0.37							
2	2	34	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	44	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	54	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	64	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	74	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37

2	2	84	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	94	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	104	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	114	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	124	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	134	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	144	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	154	0.37	0.37	0.37	0.37	0.37	0.37	0.37			
3	3	161	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	171	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	181	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	191	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	201	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
3	3	211	0.38	0.38								
4	4	213	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38
4	4	223	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	233	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	243	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	253	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	263	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	273	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	283	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	293	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	303	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	313	0.37	0.37	0.37							
6	6	316	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
6	6	326	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
6	6	336	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
17	17	526	0.38	0.38	0.38	0.38	0.38	0.38				
7	7	346	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22
7	7	356	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
7	7	366	0.22	0.22								
8	8	368	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
9	9	377	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24
9	9	387	0.24	0.24	0.24							
10	10	390	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	
11	11	399	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
11	11	409	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
12	12	418	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
12	12	428	0.35	0.35	0.35							
13	13	431	0.34	0.34								
14	14	433	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37
14	14	443	0.37	0.37								
15	15	445	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38
15	15	455	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	465	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	475	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	485	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	495	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	505	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38

15	15	515	0.38	0.38	0.38
16	16	518	0.38	0.38	0.38

INTERMEDIATE REPORT

Sediment Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

g/m²/d Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	5.07	5.07	5.08	5.08	5.09	5.10	5.10	5.11	5.11	5.12
1	1	11	5.13	5.13	5.14	5.14	5.15	5.15	5.16	5.17	5.17	5.18
1	1	21	5.18	5.19	5.20	5.20	5.21	5.21	5.22	5.23	5.23	5.24
1	1	31	5.24	5.25	5.26							
2	2	34	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	44	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	54	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	64	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	74	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	84	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	94	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	104	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	114	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	124	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	134	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	144	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	154	5.68	5.68	5.68	5.68	5.68	5.68	5.68			
3	3	161	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	171	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	181	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	191	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	201	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	211	3.15	3.15								
4	4	213	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	223	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	233	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	243	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	253	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	263	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	273	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	283	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	293	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	303	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	313	3.15	3.15	3.15							
6	6	316	3.16	3.16	3.16	3.17	3.17	3.17	3.18	3.18	3.18	3.19
6	6	326	3.19	3.19	3.20	3.20	3.20	3.21	3.21	3.21	3.22	3.22
6	6	336	3.22	3.23	3.23	3.23	3.24	3.24	3.24	3.25	3.25	3.25
17	17	526	3.25	3.25	3.24	3.24	3.24	3.23				
7	7	346	3.09	3.09	3.08	3.08	3.07	3.07	3.06	3.06	3.06	3.05
7	7	356	3.05	3.04	3.04	3.03	3.03	3.02	3.02	3.02	3.01	3.01
7	7	366	3.00	3.00								
8	8	368	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
9	9	377	3.01	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07
9	9	387	3.08	3.09	3.09							

10	10	390	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
11	11	399	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
11	11	409	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
12	12	418	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
12	12	428	5.78	5.78	5.78							
13	13	431	3.09	3.09								
14	14	433	3.11	3.12	3.13	3.15	3.16	3.17	3.19	3.20	3.21	3.23
14	14	443	3.24	3.25								
15	15	445	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	455	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	465	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	475	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	485	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	495	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	505	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	515	3.25	3.25	3.25							
16	16	518	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25		

CONDENSED CAPSULE SUMMARY FOR Bayou Chene

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	30.66731	31.50	0.00	6.20	16.08	0.00	1.60	0.10	70.00							
35.00	30.66125	31.22	0.00	6.20	16.08	0.00	1.60	0.10	70.15	2.30	0.20	0.00	0.00	0.00	0.35	5.07
34.90	30.65519	31.24	0.00	6.20	16.08	0.00	1.60	0.10	70.30	2.30	0.20	0.00	0.00	0.00	0.35	5.07
34.80	30.64913	31.25	0.00	6.20	16.08	0.00	1.60	0.10	70.45	2.30	0.20	0.00	0.00	0.00	0.35	5.08
34.70	30.64307	31.27	0.00	6.20	16.08	0.00	1.60	0.10	70.61	2.30	0.20	0.00	0.00	0.00	0.35	5.08
34.60	30.63701	31.29	0.00	6.20	16.08	0.00	1.60	0.10	70.76	2.30	0.20	0.00	0.00	0.00	0.35	5.09
34.50	30.63095	31.31	0.00	6.20	16.08	0.00	1.60	0.10	70.91	2.30	0.20	0.00	0.00	0.00	0.35	5.10
34.40	30.62489	31.33	0.00	6.20	16.08	0.00	1.60	0.10	71.06	2.30	0.20	0.00	0.00	0.00	0.35	5.10
34.30	30.61883	31.35	0.00	6.20	16.08	0.00	1.60	0.10	71.21	2.31	0.20	0.00	0.00	0.00	0.35	5.11
34.20	30.61277	31.36	0.00	6.20	16.08	0.00	1.60	0.10	71.36	2.31	0.20	0.00	0.00	0.00	0.35	5.11
34.10	30.60671	31.38	0.00	6.20	16.08	0.00	1.60	0.10	71.52	2.31	0.20	0.00	0.00	0.00	0.35	5.12
34.00	30.60065	31.40	0.00	6.20	16.08	0.00	1.60	0.10	71.67	2.31	0.20	0.00	0.00	0.00	0.36	5.13
33.90	30.59459	31.42	0.00	6.21	16.08	0.00	1.60	0.10	71.82	2.31	0.20	0.00	0.00	0.00	0.36	5.13
33.80	30.58854	31.44	0.00	6.21	16.08	0.00	1.60	0.10	71.97	2.31	0.20	0.00	0.00	0.00	0.36	5.14
33.70	30.58248	31.45	0.00	6.21	16.08	0.00	1.60	0.10	72.12	2.31	0.20	0.00	0.00	0.00	0.36	5.14
33.60	30.57642	31.47	0.00	6.21	16.08	0.00	1.59	0.10	72.27	2.31	0.20	0.00	0.00	0.00	0.36	5.15
33.50	30.57036	31.49	0.00	6.21	16.08	0.00	1.59	0.10	72.42	2.31	0.20	0.00	0.00	0.00	0.36	5.15
33.40	30.56430	31.51	0.00	6.21	16.08	0.00	1.59	0.10	72.58	2.31	0.20	0.00	0.00	0.00	0.36	5.16
33.30	30.55824	31.53	0.00	6.21	16.08	0.00	1.59	0.10	72.73	2.31	0.20	0.00	0.00	0.00	0.36	5.17
33.20	30.55218	31.55	0.00	6.21	16.08	0.00	1.59	0.10	72.88	2.31	0.20	0.00	0.00	0.00	0.36	5.17
33.10	30.54612	31.56	0.00	6.21	16.08	0.00	1.59	0.10	73.03	2.31	0.20	0.00	0.00	0.00	0.36	5.18
33.00	30.54006	31.58	0.00	6.21	16.08	0.00	1.59	0.10	73.18	2.31	0.20	0.00	0.00	0.00	0.36	5.18
32.90	30.53400	31.60	0.00	6.21	16.08	0.00	1.59	0.10	73.33	2.31	0.20	0.00	0.00	0.00	0.36	5.19
32.80	30.52794	31.62	0.00	6.21	16.08	0.00	1.59	0.10	73.48	2.31	0.20	0.00	0.00	0.00	0.36	5.20
32.70	30.52188	31.64	0.00	6.21	16.08	0.00	1.59	0.10	73.64	2.31	0.20	0.00	0.00	0.00	0.36	5.20
32.60	30.51582	31.65	0.00	6.21	16.08	0.00	1.59	0.10	73.79	2.31	0.20	0.00	0.00	0.00	0.36	5.21
32.50	30.50976	31.67	0.00	6.21	16.08	0.00	1.59	0.10	73.94	2.31	0.21	0.00	0.00	0.00	0.36	5.21
32.40	30.50370	31.69	0.00	6.22	16.08	0.00	1.59	0.10	74.09	2.31	0.21	0.00	0.00	0.00	0.36	5.22

32.30	30.49764	31.71	0.00	6.22	16.08	0.00	1.59	0.10	74.24	2.31	0.21	0.00	0.00	0.00	0.36	5.23
32.20	30.49158	31.73	0.00	6.22	16.08	0.00	1.59	0.10	74.39	2.32	0.21	0.00	0.00	0.00	0.36	5.23
32.10	30.48552	31.75	0.00	6.22	16.08	0.00	1.59	0.10	74.55	2.32	0.21	0.00	0.00	0.00	0.37	5.24
32.00	30.47946	31.76	0.00	6.22	16.08	0.00	1.59	0.10	74.70	2.32	0.21	0.00	0.00	0.00	0.37	5.24
31.90	30.47340	31.78	0.00	6.22	16.08	0.00	1.59	0.10	74.85	2.32	0.21	0.00	0.00	0.00	0.37	5.25
31.80	30.46734	31.80	0.00	6.22	16.08	0.00	1.59	0.10	75.00	2.32	0.21	0.00	0.00	0.00	0.37	5.26
31.70	30.46577	31.80	0.00	6.22	16.11	0.00	1.59	0.10	75.04	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.60	30.46419	31.80	0.00	6.22	16.14	0.00	1.59	0.10	75.08	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.50	30.46262	31.80	0.00	6.22	16.17	0.00	1.59	0.10	75.12	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.40	30.46104	31.80	0.00	6.22	16.20	0.00	1.60	0.10	75.16	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.30	30.45947	31.80	0.00	6.22	16.23	0.00	1.60	0.10	75.20	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.20	30.45789	31.80	0.00	6.21	16.26	0.00	1.60	0.10	75.24	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.10	30.45631	31.80	0.00	6.21	16.29	0.00	1.60	0.10	75.28	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.00	30.45474	31.80	0.00	6.21	16.32	0.00	1.60	0.10	75.31	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.90	30.45316	31.80	0.00	6.21	16.35	0.00	1.60	0.10	75.35	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.80	30.45159	31.80	0.00	6.21	16.38	0.00	1.61	0.10	75.39	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.70	30.45001	31.80	0.00	6.21	16.41	0.00	1.61	0.10	75.43	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.60	30.44844	31.80	0.00	6.21	16.44	0.00	1.61	0.10	75.47	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.50	30.44686	31.80	0.00	6.21	16.47	0.00	1.61	0.10	75.51	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.40	30.44529	31.80	0.00	6.21	16.50	0.00	1.61	0.10	75.55	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.30	30.44371	31.80	0.00	6.21	16.52	0.00	1.61	0.10	75.59	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.20	30.44213	31.80	0.00	6.20	16.55	0.00	1.62	0.10	75.63	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.10	30.44056	31.80	0.00	6.20	16.58	0.00	1.62	0.10	75.67	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.00	30.43898	31.80	0.00	6.20	16.61	0.00	1.62	0.10	75.71	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.90	30.43741	31.80	0.00	6.20	16.64	0.00	1.62	0.10	75.75	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.80	30.43583	31.80	0.00	6.20	16.67	0.00	1.62	0.10	75.79	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.70	30.43426	31.80	0.00	6.20	16.70	0.00	1.63	0.10	75.83	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.60	30.43268	31.80	0.00	6.20	16.73	0.00	1.63	0.10	75.87	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.50	30.43111	31.80	0.00	6.20	16.75	0.00	1.63	0.10	75.91	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.40	30.42953	31.80	0.00	6.20	16.78	0.00	1.63	0.10	75.94	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.30	30.42796	31.80	0.00	6.20	16.81	0.00	1.63	0.10	75.98	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.20	30.42638	31.80	0.00	6.19	16.84	0.00	1.63	0.10	76.02	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.10	30.42480	31.80	0.00	6.19	16.87	0.00	1.64	0.10	76.06	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.00	30.42323	31.80	0.00	6.19	16.90	0.00	1.64	0.10	76.10	2.57	0.21	0.00	0.00	0.00	0.37	5.68
28.90	30.42165	31.80	0.00	6.19	16.92	0.00	1.64	0.10	76.14	2.57	0.21	0.00	0.00	0.00	0.37	5.68
28.80	30.42008	31.80	0.00	6.19	16.95	0.00	1.64	0.10	76.18	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.70	30.41850	31.80	0.00	6.19	16.98	0.00	1.64	0.10	76.22	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.60	30.41693	31.80	0.00	6.19	17.01	0.00	1.64	0.10	76.26	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.50	30.41535	31.80	0.00	6.19	17.04	0.00	1.65	0.10	76.30	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.40	30.41378	31.80	0.00	6.19	17.06	0.00	1.65	0.10	76.34	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.30	30.41220	31.80	0.00	6.19	17.09	0.00	1.65	0.10	76.38	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.20	30.41063	31.80	0.00	6.18	17.12	0.00	1.65	0.10	76.42	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.10	30.40905	31.80	0.00	6.18	17.15	0.00	1.65	0.10	76.46	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.00	30.40747	31.80	0.00	6.18	17.18	0.00	1.65	0.10	76.50	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.90	30.40590	31.80	0.00	6.18	17.20	0.00	1.66	0.10	76.54	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.80	30.40432	31.80	0.00	6.18	17.23	0.00	1.66	0.10	76.57	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.70	30.40275	31.80	0.00	6.18	17.26	0.00	1.66	0.10	76.61	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.60	30.40117	31.80	0.00	6.18	17.29	0.00	1.66	0.10	76.65	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.50	30.39960	31.80	0.00	6.18	17.31	0.00	1.66	0.10	76.69	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.40	30.39802	31.80	0.00	6.18	17.34	0.00	1.66	0.10	76.73	2.56	0.21	0.00	0.00	0.00	0.37	5.68

27.30	30.39645	31.80	0.00	6.18	17.37	0.00	1.67	0.10	76.77	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.20	30.39487	31.80	0.00	6.18	17.40	0.00	1.67	0.10	76.81	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.10	30.39330	31.80	0.00	6.17	17.42	0.00	1.67	0.10	76.85	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.00	30.39172	31.80	0.00	6.17	17.45	0.00	1.67	0.10	76.89	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.90	30.39014	31.80	0.00	6.17	17.48	0.00	1.67	0.10	76.93	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.80	30.38857	31.80	0.00	6.17	17.50	0.00	1.67	0.10	76.97	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.70	30.38699	31.80	0.00	6.17	17.53	0.00	1.68	0.10	77.01	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.60	30.38542	31.80	0.00	6.17	17.56	0.00	1.68	0.10	77.05	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.50	30.38384	31.80	0.00	6.17	17.58	0.00	1.68	0.10	77.09	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.40	30.38227	31.80	0.00	6.17	17.61	0.00	1.68	0.10	77.13	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.30	30.38069	31.80	0.00	6.17	17.64	0.00	1.68	0.10	77.17	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.20	30.37912	31.80	0.00	6.17	17.66	0.00	1.68	0.10	77.20	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.10	30.37754	31.80	0.00	6.16	17.69	0.00	1.69	0.10	77.24	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.00	30.37597	31.80	0.00	6.16	17.72	0.00	1.69	0.10	77.28	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.90	30.37439	31.80	0.00	6.16	17.74	0.00	1.69	0.10	77.32	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.80	30.37281	31.80	0.00	6.16	17.77	0.00	1.69	0.10	77.36	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.70	30.37124	31.80	0.00	6.16	17.80	0.00	1.69	0.10	77.40	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.60	30.36966	31.80	0.00	6.16	17.82	0.00	1.69	0.10	77.44	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.50	30.36809	31.80	0.00	6.16	17.85	0.00	1.70	0.10	77.48	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.40	30.36651	31.80	0.00	6.16	17.88	0.00	1.70	0.10	77.52	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.30	30.36494	31.80	0.00	6.16	17.90	0.00	1.70	0.10	77.56	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.20	30.36336	31.80	0.00	6.16	17.93	0.00	1.70	0.10	77.60	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.10	30.36179	31.80	0.00	6.16	17.95	0.00	1.70	0.10	77.64	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.00	30.36021	31.80	0.00	6.15	17.98	0.00	1.70	0.10	77.68	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.90	30.35863	31.80	0.00	6.15	18.01	0.00	1.71	0.10	77.72	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.80	30.35706	31.80	0.00	6.15	18.03	0.00	1.71	0.10	77.76	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.70	30.35548	31.80	0.00	6.15	18.06	0.00	1.71	0.10	77.80	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.60	30.35391	31.80	0.00	6.15	18.08	0.00	1.71	0.10	77.83	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.50	30.35233	31.80	0.00	6.15	18.11	0.00	1.71	0.10	77.87	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.40	30.35076	31.80	0.00	6.15	18.13	0.00	1.71	0.10	77.91	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.30	30.34918	31.80	0.00	6.15	18.16	0.00	1.72	0.10	77.95	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.20	30.34761	31.80	0.00	6.15	18.18	0.00	1.72	0.10	77.99	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.10	30.34603	31.80	0.00	6.15	18.21	0.00	1.72	0.10	78.03	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.00	30.34446	31.80	0.00	6.15	18.24	0.00	1.72	0.10	78.07	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.90	30.34288	31.80	0.00	6.14	18.26	0.00	1.72	0.10	78.11	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.80	30.34130	31.80	0.00	6.14	18.29	0.00	1.72	0.10	78.15	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.70	30.33973	31.80	0.00	6.14	18.31	0.00	1.73	0.10	78.19	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.60	30.33815	31.80	0.00	6.14	18.34	0.00	1.73	0.10	78.23	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.50	30.33658	31.80	0.00	6.14	18.36	0.00	1.73	0.10	78.27	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.40	30.33500	31.80	0.00	6.14	18.39	0.00	1.73	0.10	78.31	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.30	30.33343	31.80	0.00	6.14	18.41	0.00	1.73	0.10	78.35	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.20	30.33185	31.80	0.00	6.14	18.44	0.00	1.73	0.10	78.39	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.10	30.33028	31.80	0.00	6.14	18.46	0.00	1.73	0.10	78.43	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.00	30.32870	31.80	0.00	6.14	18.49	0.00	1.74	0.10	78.46	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.90	30.32713	31.80	0.00	6.14	18.51	0.00	1.74	0.10	78.50	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.80	30.32555	31.80	0.00	6.14	18.54	0.00	1.74	0.10	78.54	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.70	30.32397	31.80	0.00	6.13	18.56	0.00	1.74	0.10	78.58	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.60	30.32240	31.80	0.00	6.13	18.59	0.00	1.74	0.10	78.62	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.50	30.32082	31.80	0.00	6.13	18.61	0.00	1.74	0.10	78.66	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.40	30.31925	31.80	0.00	6.13	18.64	0.00	1.75	0.10	78.70	2.56	0.21	0.00	0.00	0.00	0.37	5.68

22.30	30.31767	31.80	0.00	6.13	18.66	0.00	1.75	0.10	78.74	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.20	30.31610	31.80	0.00	6.13	18.68	0.00	1.75	0.10	78.78	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.10	30.31452	31.80	0.00	6.13	18.71	0.00	1.75	0.10	78.82	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.00	30.31295	31.80	0.00	6.13	18.73	0.00	1.75	0.10	78.86	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.90	30.31137	31.80	0.00	6.13	18.76	0.00	1.75	0.10	78.90	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.80	30.30980	31.80	0.00	6.13	18.78	0.00	1.76	0.10	78.94	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.70	30.30822	31.80	0.00	6.13	18.81	0.00	1.76	0.10	78.98	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.60	30.30664	31.80	0.00	6.13	18.83	0.00	1.76	0.10	79.02	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.50	30.30507	31.80	0.00	6.12	18.85	0.00	1.76	0.10	79.06	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.40	30.30349	31.80	0.00	6.12	18.88	0.00	1.76	0.10	79.09	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.30	30.30192	31.80	0.00	6.12	18.90	0.00	1.76	0.10	79.13	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.20	30.30034	31.80	0.00	6.12	18.93	0.00	1.76	0.10	79.17	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.10	30.29877	31.80	0.00	6.12	18.95	0.00	1.77	0.10	79.21	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.00	30.29719	31.80	0.00	6.12	18.97	0.00	1.77	0.10	79.25	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.90	30.29562	31.80	0.00	6.12	19.00	0.00	1.77	0.10	79.29	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.80	30.29404	31.80	0.00	6.12	19.02	0.00	1.77	0.10	79.33	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.70	30.29247	31.80	0.00	6.12	19.05	0.00	1.77	0.10	79.37	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.60	30.29089	31.80	0.00	6.12	19.07	0.00	1.77	0.10	79.41	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.50	30.28931	31.80	0.00	6.12	19.09	0.00	1.78	0.10	79.45	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.40	30.28774	31.80	0.00	6.12	19.12	0.00	1.78	0.10	79.49	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.30	30.28616	31.80	0.00	6.11	19.14	0.00	1.78	0.10	79.53	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.20	30.28459	31.80	0.00	6.11	19.16	0.00	1.78	0.10	79.57	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.10	30.28301	31.80	0.00	6.11	19.19	0.00	1.78	0.10	79.61	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.00	30.28144	31.80	0.00	6.11	19.21	0.00	1.78	0.10	79.65	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.90	30.27986	31.80	0.00	6.11	19.23	0.00	1.78	0.10	79.69	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.80	30.27829	31.80	0.00	6.11	19.26	0.00	1.79	0.10	79.72	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.70	30.27671	31.80	0.00	6.11	19.28	0.00	1.79	0.10	79.76	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.60	30.27514	31.80	0.00	6.11	19.30	0.00	1.79	0.10	79.80	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.50	30.27356	31.80	0.00	6.11	19.33	0.00	1.79	0.10	79.84	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.40	30.27198	31.80	0.00	6.11	19.35	0.00	1.79	0.10	79.88	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.30	30.27041	31.80	0.00	6.11	19.37	0.00	1.79	0.10	79.92	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.20	30.26883	31.80	0.00	6.11	19.40	0.00	1.80	0.10	79.96	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.10	30.26726	31.80	0.00	6.11	19.42	0.00	1.80	0.10	80.00	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.00	22.95771	31.80	0.00	6.13	19.40	0.00	1.80	0.10	79.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.90	22.95386	31.80	0.00	6.16	19.39	0.00	1.80	0.10	79.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.80	22.95002	31.80	0.00	6.20	19.37	0.00	1.80	0.10	78.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.70	22.94617	31.80	0.00	6.23	19.35	0.00	1.79	0.10	78.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.60	22.94232	31.80	0.00	6.26	19.34	0.00	1.79	0.10	78.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.50	22.93847	31.80	0.00	6.29	19.32	0.00	1.79	0.10	77.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.40	22.93463	31.80	0.00	6.32	19.30	0.00	1.79	0.10	77.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.30	22.93078	31.80	0.00	6.35	19.28	0.00	1.79	0.10	76.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.20	22.92693	31.80	0.00	6.38	19.27	0.00	1.79	0.10	76.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.10	22.92309	31.80	0.00	6.41	19.25	0.00	1.79	0.10	76.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.00	22.91924	31.80	0.00	6.44	19.23	0.00	1.79	0.10	75.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.90	22.91539	31.80	0.00	6.46	19.21	0.00	1.79	0.10	75.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.80	22.91154	31.80	0.00	6.49	19.20	0.00	1.79	0.10	75.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.70	22.90770	31.80	0.00	6.52	19.18	0.00	1.79	0.10	74.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.60	22.90385	31.80	0.00	6.55	19.16	0.00	1.79	0.10	74.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.50	22.90000	31.80	0.00	6.57	19.15	0.00	1.79	0.10	73.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.40	22.89616	31.80	0.00	6.60	19.13	0.00	1.79	0.10	73.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15

17.30	22.89231	31.80	0.00	6.62	19.11	0.00	1.79	0.10	73.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.20	22.88846	31.80	0.00	6.65	19.10	0.00	1.79	0.10	72.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.10	22.88461	31.80	0.00	6.67	19.08	0.00	1.79	0.10	72.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.00	22.88077	31.80	0.00	6.70	19.06	0.00	1.78	0.10	71.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.90	22.87692	31.80	0.00	6.72	19.04	0.00	1.78	0.10	71.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.80	22.87307	31.80	0.00	6.74	19.03	0.00	1.78	0.10	71.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.70	22.86923	31.80	0.00	6.77	19.01	0.00	1.78	0.10	70.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.60	22.86538	31.80	0.00	6.79	18.99	0.00	1.78	0.10	70.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.50	22.86153	31.80	0.00	6.81	18.98	0.00	1.78	0.10	70.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.40	22.85769	31.80	0.00	6.83	18.96	0.00	1.78	0.10	69.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.30	22.85384	31.80	0.00	6.85	18.94	0.00	1.78	0.10	69.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.20	22.84999	31.80	0.00	6.87	18.93	0.00	1.78	0.10	68.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.10	22.84614	31.80	0.00	6.90	18.91	0.00	1.78	0.10	68.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.00	22.84230	31.80	0.00	6.92	18.89	0.00	1.78	0.10	68.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.90	22.83845	31.80	0.00	6.94	18.88	0.00	1.78	0.11	67.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.80	22.83460	31.80	0.00	6.95	18.86	0.00	1.78	0.11	67.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.70	22.83076	31.80	0.00	6.97	18.84	0.00	1.78	0.11	66.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.60	22.82691	31.80	0.00	6.99	18.82	0.00	1.78	0.11	66.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.50	22.82306	31.80	0.00	7.01	18.81	0.00	1.78	0.11	66.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.40	22.81921	31.80	0.00	7.03	18.79	0.00	1.78	0.11	65.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.30	22.81537	31.80	0.00	7.05	18.77	0.00	1.78	0.11	65.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.20	22.81152	31.80	0.00	7.06	18.76	0.00	1.77	0.11	65.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.10	22.80767	31.80	0.00	7.08	18.74	0.00	1.77	0.11	64.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.00	22.80383	31.80	0.00	7.10	18.72	0.00	1.77	0.11	64.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
14.90	22.79998	31.80	0.00	7.11	18.71	0.00	1.77	0.11	63.85	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.80	22.79613	31.80	0.00	7.13	18.69	0.00	1.77	0.11	63.46	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.70	22.79228	31.80	0.00	7.14	18.67	0.00	1.77	0.11	63.08	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.60	22.78844	31.80	0.00	7.16	18.66	0.00	1.77	0.11	62.69	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.50	22.78459	31.80	0.00	7.17	18.64	0.00	1.77	0.11	62.31	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.40	22.78074	31.80	0.00	7.19	18.62	0.00	1.77	0.11	61.92	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.30	22.77690	31.80	0.00	7.20	18.61	0.00	1.77	0.11	61.54	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.20	22.77305	31.80	0.00	7.21	18.59	0.00	1.77	0.11	61.15	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.10	22.76920	31.80	0.00	7.23	18.58	0.00	1.77	0.11	60.77	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.00	22.76535	31.80	0.00	7.24	18.56	0.00	1.77	0.11	60.38	0.78	0.09	0.00	0.00	0.00	0.38	3.15
13.90	22.76151	31.80	0.00	7.24	18.50	0.00	1.77	0.11	60.00	0.78	0.09	0.00	0.00	0.00	0.38	3.15
13.80	25.02187	31.80	0.00	6.96	17.15	0.00	1.79	0.10	59.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.70	25.01687	31.80	0.00	6.98	17.13	0.00	1.79	0.10	59.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.60	25.01187	31.80	0.00	7.00	17.10	0.00	1.79	0.10	58.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.50	25.00687	31.80	0.00	7.02	17.08	0.00	1.79	0.10	58.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.40	25.00187	31.80	0.00	7.04	17.06	0.00	1.78	0.10	57.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.30	24.99687	31.80	0.00	7.06	17.04	0.00	1.78	0.10	57.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.20	24.99187	31.80	0.00	7.08	17.02	0.00	1.78	0.10	56.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.10	24.98687	31.80	0.00	7.10	16.99	0.00	1.78	0.10	56.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.00	24.98187	31.80	0.00	7.12	16.97	0.00	1.78	0.10	55.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.90	24.97688	31.80	0.00	7.14	16.95	0.00	1.78	0.10	55.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.80	24.97188	31.80	0.00	7.15	16.93	0.00	1.78	0.10	54.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.70	24.96688	31.80	0.00	7.17	16.91	0.00	1.78	0.10	54.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.60	24.96188	31.80	0.00	7.18	16.88	0.00	1.78	0.10	53.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.50	24.95688	31.80	0.00	7.20	16.86	0.00	1.78	0.10	53.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.40	24.95188	31.80	0.00	7.21	16.84	0.00	1.78	0.10	52.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15

12.30	24.94688	31.80	0.00	7.23	16.82	0.00	1.78	0.10	52.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.20	24.94188	31.80	0.00	7.24	16.80	0.00	1.77	0.10	51.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.10	24.93688	31.80	0.00	7.25	16.78	0.00	1.77	0.10	51.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.00	24.93188	31.80	0.00	7.26	16.75	0.00	1.77	0.10	50.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.90	24.92688	31.80	0.00	7.27	16.73	0.00	1.77	0.10	50.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.80	24.92188	31.80	0.00	7.28	16.71	0.00	1.77	0.10	49.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.70	24.91689	31.80	0.00	7.29	16.69	0.00	1.77	0.10	49.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.60	24.91189	31.80	0.00	7.30	16.67	0.00	1.77	0.10	48.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.50	24.90689	31.80	0.00	7.31	16.65	0.00	1.77	0.10	48.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.40	24.90189	31.80	0.00	7.32	16.62	0.00	1.77	0.10	47.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.30	24.89689	31.80	0.00	7.32	16.60	0.00	1.77	0.10	47.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.20	24.89189	31.80	0.00	7.33	16.58	0.00	1.77	0.10	46.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.10	24.88689	31.80	0.00	7.34	16.56	0.00	1.77	0.10	46.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.00	24.88189	31.80	0.00	7.34	16.54	0.00	1.77	0.10	45.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.90	24.87689	31.80	0.00	7.35	16.52	0.00	1.76	0.10	45.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.80	24.87189	31.80	0.00	7.35	16.50	0.00	1.76	0.10	44.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.70	24.86689	31.80	0.00	7.36	16.47	0.00	1.76	0.10	44.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.60	24.86189	31.80	0.00	7.36	16.45	0.00	1.76	0.10	43.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.50	24.85690	31.80	0.00	7.36	16.43	0.00	1.76	0.10	43.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.40	24.85190	31.80	0.00	7.36	16.41	0.00	1.76	0.10	42.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.30	24.84690	31.80	0.00	7.37	16.39	0.00	1.76	0.10	42.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.20	24.84190	31.80	0.00	7.37	16.37	0.00	1.76	0.10	41.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.10	24.83690	31.80	0.00	7.37	16.35	0.00	1.76	0.10	41.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.00	24.83190	31.80	0.00	7.37	16.33	0.00	1.76	0.10	40.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
9.90	24.82690	31.80	0.00	7.37	16.31	0.00	1.76	0.10	40.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
9.80	5.48323	31.80	0.00	7.37	16.29	0.00	1.76	0.10	39.75	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.70	5.48005	31.80	0.00	7.36	16.24	0.00	1.75	0.10	39.49	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.60	5.47688	31.80	0.00	7.36	16.18	0.00	1.75	0.10	39.24	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.50	5.47370	31.80	0.00	7.36	16.13	0.00	1.75	0.10	38.98	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.40	5.47053	31.80	0.00	7.35	16.07	0.00	1.75	0.10	38.73	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.30	5.46735	31.80	0.00	7.35	16.01	0.00	1.75	0.10	38.48	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.20	5.46418	31.80	0.00	7.34	15.96	0.00	1.74	0.10	38.22	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.10	5.46100	31.80	0.00	7.34	15.91	0.00	1.74	0.11	37.97	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.00	5.45783	31.80	0.00	7.33	15.85	0.00	1.74	0.11	37.71	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.90	5.45465	31.80	0.00	7.33	15.80	0.00	1.74	0.11	37.46	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.80	5.45148	31.80	0.00	7.32	15.74	0.00	1.73	0.11	37.21	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.70	5.44830	31.80	0.00	7.31	15.69	0.00	1.73	0.11	36.95	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.60	5.44513	31.80	0.00	7.30	15.64	0.00	1.73	0.11	36.70	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.50	5.44195	31.80	0.00	7.30	15.58	0.00	1.73	0.11	36.44	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.40	5.43878	31.80	0.00	7.29	15.53	0.00	1.73	0.11	36.19	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.30	5.43561	31.80	0.00	7.28	15.48	0.00	1.72	0.11	35.94	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.20	5.43243	31.80	0.00	7.27	15.42	0.00	1.72	0.11	35.68	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.10	5.42926	31.80	0.00	7.26	15.37	0.00	1.72	0.11	35.43	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.00	5.42608	31.80	0.00	7.25	15.32	0.00	1.72	0.11	35.17	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.90	5.42291	31.80	0.00	7.24	15.27	0.00	1.72	0.11	34.92	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.80	5.41973	31.80	0.00	7.23	15.21	0.00	1.71	0.11	34.67	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.70	5.41656	31.80	0.00	7.21	15.16	0.00	1.71	0.11	34.41	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.60	5.41338	31.80	0.00	7.20	15.11	0.00	1.71	0.11	34.16	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.50	5.41021	31.80	0.00	7.19	15.06	0.00	1.71	0.11	33.90	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.40	5.40703	31.80	0.00	7.18	15.01	0.00	1.71	0.11	33.65	0.49	0.09	0.00	0.00	0.00	0.38	3.15

7.30	5.40386	31.80	0.00	7.16	14.96	0.00	1.70	0.11	33.40	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.20	5.40068	31.80	0.00	7.15	14.91	0.00	1.70	0.11	33.14	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.10	5.39751	31.80	0.00	7.14	14.85	0.00	1.70	0.11	32.89	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.00	5.39433	31.80	0.00	7.12	14.80	0.00	1.70	0.11	32.63	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.90	5.39116	31.80	0.00	7.11	14.75	0.00	1.70	0.11	32.38	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.80	5.38798	31.80	0.00	7.09	14.70	0.00	1.69	0.11	32.13	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.70	5.38481	31.80	0.00	7.08	14.65	0.00	1.69	0.11	31.87	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.60	5.38163	31.80	0.00	7.06	14.60	0.00	1.69	0.11	31.62	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.50	5.37846	31.80	0.00	7.05	14.55	0.00	1.69	0.11	31.37	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.40	5.37528	31.80	0.00	7.03	14.51	0.00	1.68	0.11	31.11	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.30	5.37211	31.80	0.00	7.01	14.46	0.00	1.68	0.11	30.86	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.20	5.36893	31.80	0.00	7.00	14.41	0.00	1.68	0.11	30.60	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.10	5.36576	31.80	0.00	6.98	14.36	0.00	1.68	0.11	30.35	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.00	5.36259	31.80	0.00	6.96	14.31	0.00	1.68	0.11	30.10	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.90	5.35941	31.80	0.00	6.94	14.26	0.00	1.67	0.11	29.84	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.80	5.35624	31.80	0.00	6.93	14.21	0.00	1.67	0.11	29.59	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.70	5.35306	31.80	0.00	6.91	14.17	0.00	1.67	0.11	29.33	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.60	5.34989	31.80	0.00	6.89	14.12	0.00	1.67	0.11	29.08	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.50	5.34671	31.80	0.00	6.87	14.07	0.00	1.67	0.11	28.83	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.40	5.34354	31.80	0.00	6.85	14.02	0.00	1.66	0.11	28.57	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.30	5.34036	31.80	0.00	6.83	13.97	0.00	1.66	0.11	28.32	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.20	5.33719	31.80	0.00	6.81	13.93	0.00	1.66	0.11	28.06	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.10	5.33401	31.80	0.00	6.79	13.88	0.00	1.66	0.11	27.81	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.00	5.33084	31.80	0.00	6.77	13.83	0.00	1.66	0.11	27.56	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.90	5.32766	31.80	0.00	6.75	13.79	0.00	1.65	0.11	27.30	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.80	5.32449	31.80	0.00	6.73	13.74	0.00	1.65	0.11	27.05	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.70	5.32131	31.80	0.00	6.71	13.70	0.00	1.65	0.11	26.79	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.60	5.31814	31.80	0.00	6.69	13.65	0.00	1.65	0.11	26.54	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.50	5.31496	31.80	0.00	6.67	13.60	0.00	1.65	0.11	26.29	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.40	5.31179	31.80	0.00	6.65	13.56	0.00	1.65	0.11	26.03	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.30	5.30861	31.80	0.00	6.63	13.51	0.00	1.64	0.11	25.78	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.20	5.30544	31.80	0.00	6.60	13.47	0.00	1.64	0.11	25.52	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.10	5.30226	31.80	0.00	6.58	13.42	0.00	1.64	0.11	25.27	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.00	5.29909	31.80	0.00	6.56	13.38	0.00	1.64	0.11	25.02	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.90	5.29591	31.80	0.00	6.54	13.33	0.00	1.64	0.11	24.76	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.80	5.29274	31.80	0.00	6.51	13.29	0.00	1.63	0.11	24.51	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.70	5.28957	31.80	0.00	6.49	13.24	0.00	1.63	0.11	24.25	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.60	5.28639	31.80	0.00	6.47	13.20	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.50	5.27972	31.82	0.00	6.44	13.14	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.40	5.27306	31.83	0.00	6.41	13.08	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.30	5.26639	31.85	0.00	6.38	13.02	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.20	5.25972	31.87	0.00	6.35	12.96	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.10	5.25306	31.88	0.00	6.33	12.91	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.00	5.24639	31.90	0.00	6.30	12.85	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
2.90	5.23972	31.92	0.00	6.27	12.79	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.80	5.23306	31.93	0.00	6.25	12.74	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.70	5.22639	31.95	0.00	6.23	12.68	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.60	5.21972	31.97	0.00	6.20	12.63	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.50	5.21306	31.98	0.00	6.18	12.57	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.40	5.20639	32.00	0.00	6.16	12.52	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19

2.30	5.19972	32.02	0.00	6.14	12.46	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.20	5.19306	32.03	0.00	6.12	12.41	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.10	5.18639	32.05	0.00	6.10	12.35	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.00	5.17972	32.07	0.00	6.08	12.30	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.90	5.17306	32.08	0.00	6.06	12.25	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.80	5.16639	32.10	0.00	6.04	12.19	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.70	5.15972	32.12	0.00	6.02	12.14	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.60	5.15306	32.13	0.00	6.01	12.09	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.50	5.14639	32.15	0.00	5.99	12.03	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.40	5.13972	32.17	0.00	5.97	11.98	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.23
1.30	5.13306	32.18	0.00	5.96	11.93	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.20	5.12639	32.20	0.00	5.94	11.88	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.10	5.11972	32.22	0.00	5.93	11.83	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
1.00	5.11306	32.23	0.00	5.91	11.78	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.90	5.10639	32.25	0.00	5.90	11.72	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.80	5.09972	32.27	0.00	5.89	11.67	0.00	1.56	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.70	5.09306	32.28	0.00	5.88	11.59	0.00	1.56	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.60	5.08639	32.30	0.00	5.89	11.32	0.00	1.60	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.50	8.81007	32.28	0.00	6.07	9.39	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.25
0.40	8.81007	32.27	0.00	6.06	9.38	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.25
0.30	8.81007	32.25	0.00	6.06	9.36	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.20	8.81007	32.23	0.00	6.06	9.35	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.10	8.81007	32.22	0.00	6.05	9.28	0.00	1.91	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.00	8.81007	32.20	0.00	6.05	8.45	0.00	1.69	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.23

CONDENSED CAPSULE SUMMARY FOR Station 935

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.11327	31.20	0.00	4.70	3.42	0.00	0.90	0.10	10.00							
17.90	0.11327	31.48	0.00	4.71	3.25	0.00	0.89	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.80	0.11327	31.45	0.00	4.73	3.08	0.00	0.87	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.70	0.11327	31.43	0.00	4.76	2.92	0.00	0.86	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.60	0.11327	31.41	0.00	4.78	2.78	0.00	0.85	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.50	0.11327	31.39	0.00	4.81	2.64	0.00	0.83	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.07
17.40	0.11327	31.36	0.00	4.84	2.50	0.00	0.82	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.07
17.30	0.11327	31.34	0.00	4.87	2.38	0.00	0.81	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.20	0.11327	31.32	0.00	4.89	2.26	0.00	0.79	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.10	0.11327	31.30	0.00	4.92	2.14	0.00	0.78	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.00	0.11327	31.27	0.00	4.95	2.03	0.00	0.77	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.05
16.90	0.11327	31.25	0.00	4.98	1.93	0.00	0.76	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.05
16.80	0.11327	31.23	0.00	5.00	1.84	0.00	0.75	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.04
16.70	0.11327	31.20	0.00	5.03	1.74	0.00	0.73	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.04
16.60	0.11327	31.18	0.00	5.05	1.66	0.00	0.72	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.03
16.50	0.11327	31.16	0.00	5.08	1.57	0.00	0.71	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.03
16.40	0.11327	31.14	0.00	5.10	1.49	0.00	0.70	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.30	0.11327	31.11	0.00	5.12	1.42	0.00	0.69	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.20	0.11327	31.09	0.00	5.15	1.35	0.00	0.68	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.10	0.11327	31.07	0.00	5.17	1.28	0.00	0.67	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.01
16.00	0.11327	31.05	0.00	5.19	1.22	0.00	0.66	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.01
15.90	0.11327	31.02	0.00	5.21	1.16	0.00	0.65	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00

15.80	0.11327	31.00	0.00	5.23	1.10	0.00	0.64	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00
15.70	0.28411	31.00	0.00	7.00	2.65	0.00	0.75	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.60	0.45496	31.00	0.00	7.03	2.87	0.00	0.77	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.50	0.62580	31.00	0.00	7.03	2.93	0.00	0.78	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.40	0.79665	31.00	0.00	7.03	2.96	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.30	0.96749	31.00	0.00	7.02	2.97	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.20	1.13834	31.00	0.00	7.02	2.97	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.10	1.30918	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.00	1.48003	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.90	1.65087	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.80	1.80378	31.04	0.00	6.28	3.58	0.00	1.05	0.09	11.15	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.70	1.95669	31.08	0.00	5.95	4.01	0.00	1.25	0.10	12.31	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.60	2.10959	31.12	0.00	5.81	4.34	0.00	1.41	0.11	13.46	0.64	0.08	0.00	0.00	0.00	0.23	3.02
14.50	2.26250	31.15	0.00	5.77	4.59	0.00	1.54	0.12	14.62	0.65	0.08	0.00	0.00	0.00	0.23	3.03
14.40	2.41541	31.19	0.00	5.78	4.79	0.00	1.65	0.13	15.77	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.30	2.56832	31.23	0.00	5.83	4.94	0.00	1.73	0.13	16.92	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.20	2.72122	31.27	0.00	5.89	5.06	0.00	1.80	0.14	18.08	0.65	0.08	0.00	0.00	0.00	0.23	3.05
14.10	2.87413	31.31	0.00	5.96	5.16	0.00	1.86	0.14	19.23	0.65	0.08	0.00	0.00	0.00	0.23	3.06
14.00	3.02704	31.35	0.00	6.04	5.24	0.00	1.92	0.15	20.38	0.65	0.08	0.00	0.00	0.00	0.23	3.06
13.90	3.17995	31.38	0.00	6.13	5.31	0.00	1.96	0.15	21.54	0.65	0.08	0.00	0.00	0.00	0.24	3.07
13.80	3.33285	31.42	0.00	6.22	5.36	0.00	2.00	0.16	22.69	0.65	0.08	0.00	0.00	0.00	0.24	3.08
13.70	3.48576	31.46	0.00	6.32	5.41	0.00	2.03	0.16	23.85	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.60	3.63867	31.50	0.00	6.41	5.45	0.00	2.06	0.16	25.00	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.50	3.63867	31.50	0.00	6.29	5.48	0.00	2.04	0.16	26.44	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.40	3.63867	31.50	0.00	6.19	5.51	0.00	2.03	0.16	27.89	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.30	3.63867	31.50	0.00	6.10	5.54	0.00	2.01	0.16	29.33	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.20	3.63867	31.50	0.00	6.02	5.57	0.00	2.00	0.16	30.78	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.10	3.63867	31.50	0.00	5.96	5.59	0.00	1.98	0.15	32.22	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.00	3.63867	31.50	0.00	5.91	5.62	0.00	1.97	0.15	33.67	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.90	3.63867	31.50	0.00	5.88	5.65	0.00	1.96	0.15	35.11	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.80	3.63867	31.50	0.00	5.85	5.67	0.00	1.94	0.15	36.56	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.70	3.63867	31.50	0.00	5.84	5.70	0.00	1.93	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.60	3.63867	31.50	0.00	5.83	5.71	0.00	1.92	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.50	3.63867	31.50	0.00	5.82	5.73	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.40	3.63867	31.50	0.00	5.82	5.74	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.30	3.63867	31.50	0.00	5.81	5.76	0.00	1.90	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.20	3.63867	31.50	0.00	5.81	5.77	0.00	1.90	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.10	3.63867	31.50	0.00	5.80	5.78	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.00	3.63867	31.50	0.00	5.80	5.80	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.90	3.63867	31.50	0.00	5.79	5.81	0.00	1.88	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.80	3.63867	31.50	0.00	5.79	5.82	0.00	1.87	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.70	3.63867	31.50	0.00	5.78	5.84	0.00	1.87	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.60	3.63867	31.50	0.00	5.77	5.85	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.50	3.63867	31.50	0.00	5.77	5.86	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.40	3.63867	31.50	0.00	5.77	5.88	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.30	3.63867	31.50	0.00	5.76	5.89	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.20	3.63867	31.50	0.00	5.76	5.90	0.00	1.84	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.10	3.63867	31.50	0.00	5.75	5.91	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.00	3.63867	31.50	0.00	5.75	5.93	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.90	3.63867	31.50	0.00	5.74	5.94	0.00	1.82	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78

10.80	3.63867	31.50	0.00	5.74	5.95	0.00	1.82	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.70	3.63867	31.50	0.00	5.71	5.98	0.00	1.81	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.60	3.63867	31.50	0.00	5.68	6.00	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.50	3.63867	31.50	0.00	5.66	6.03	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.40	3.63867	31.50	0.00	5.63	6.05	0.00	1.79	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.30	3.63867	31.50	0.00	5.61	6.08	0.00	1.79	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.20	3.63867	31.50	0.00	5.59	6.10	0.00	1.78	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.10	3.63867	31.50	0.00	5.57	6.13	0.00	1.77	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.00	3.63867	31.50	0.00	5.54	6.15	0.00	1.77	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.90	3.63867	31.50	0.00	5.52	6.17	0.00	1.76	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.80	3.63867	31.50	0.00	5.50	6.20	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.70	3.63867	31.50	0.00	5.48	6.22	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.60	3.63867	31.50	0.00	5.46	6.25	0.00	1.74	0.13	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.50	3.63867	31.50	0.00	5.41	6.33	0.00	1.78	0.13	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.40	6.66859	31.50	0.00	4.69	7.95	0.00	2.76	0.10	38.00	0.75	0.08	0.00	0.00	0.00	0.34	3.09
9.30	6.66859	31.50	0.00	4.73	7.94	0.00	2.76	0.10	38.00	0.75	0.08	0.00	0.00	0.00	0.34	3.09
9.20	3.47091	31.57	0.00	4.76	7.93	0.00	2.76	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.34	3.11
9.10	3.47304	31.63	0.00	4.82	7.91	0.00	2.76	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.34	3.12
9.00	3.47516	31.70	0.00	4.87	7.88	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.13
8.90	3.47729	31.77	0.00	4.93	7.86	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.15
8.80	3.47941	31.83	0.00	4.98	7.84	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.16
8.70	3.48154	31.90	0.00	5.03	7.82	0.00	2.74	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.17
8.60	3.48366	31.97	0.00	5.09	7.80	0.00	2.74	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.19
8.50	3.48579	32.03	0.00	5.14	7.78	0.00	2.74	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.20
8.40	3.48791	32.10	0.00	5.18	7.76	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.21
8.30	3.49004	32.17	0.00	5.23	7.74	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.23
8.20	3.49216	32.23	0.00	5.28	7.72	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.24
8.10	3.49429	32.30	0.00	5.32	7.70	0.00	2.72	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.25
8.00	3.49708	32.30	0.00	5.36	7.68	0.00	2.72	0.11	37.89	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.90	3.49988	32.30	0.00	5.40	7.66	0.00	2.72	0.11	37.78	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.80	3.50267	32.30	0.00	5.44	7.64	0.00	2.71	0.11	37.67	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.70	3.50546	32.30	0.00	5.48	7.62	0.00	2.71	0.11	37.56	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.60	3.50825	32.30	0.00	5.51	7.61	0.00	2.70	0.11	37.45	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.50	3.51105	32.30	0.00	5.55	7.59	0.00	2.70	0.11	37.34	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.40	3.51384	32.30	0.00	5.58	7.57	0.00	2.70	0.12	37.23	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.30	3.51663	32.30	0.00	5.62	7.55	0.00	2.69	0.12	37.12	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.20	3.51943	32.30	0.00	5.65	7.53	0.00	2.69	0.12	37.01	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.10	3.52222	32.30	0.00	5.68	7.52	0.00	2.69	0.12	36.90	0.62	0.09	0.00	0.00	0.00	0.38	3.25
7.00	3.52501	32.30	0.00	5.71	7.50	0.00	2.68	0.12	36.79	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.90	3.52781	32.30	0.00	5.74	7.48	0.00	2.68	0.12	36.68	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.80	3.53060	32.30	0.00	5.77	7.46	0.00	2.68	0.12	36.58	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.70	3.53339	32.30	0.00	5.80	7.45	0.00	2.67	0.12	36.47	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.60	3.53619	32.30	0.00	5.82	7.43	0.00	2.67	0.12	36.36	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.50	3.53898	32.30	0.00	5.85	7.41	0.00	2.67	0.12	36.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.40	3.54177	32.30	0.00	5.87	7.39	0.00	2.66	0.12	36.14	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.30	3.54456	32.30	0.00	5.90	7.38	0.00	2.66	0.12	36.03	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.20	3.54736	32.30	0.00	5.92	7.36	0.00	2.66	0.12	35.92	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.10	3.55015	32.30	0.00	5.95	7.34	0.00	2.65	0.12	35.81	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.00	3.55294	32.30	0.00	5.97	7.33	0.00	2.65	0.12	35.70	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.90	3.55574	32.30	0.00	5.99	7.31	0.00	2.65	0.13	35.59	0.62	0.09	0.00	0.00	0.00	0.38	3.25

5.80	3.55853	32.30	0.00	6.01	7.29	0.00	2.64	0.13	35.48	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.70	3.56132	32.30	0.00	6.03	7.27	0.00	2.64	0.13	35.37	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.60	3.56412	32.30	0.00	6.05	7.26	0.00	2.64	0.13	35.26	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.50	3.56691	32.30	0.00	6.07	7.24	0.00	2.63	0.13	35.15	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.40	3.56970	32.30	0.00	6.09	7.22	0.00	2.63	0.13	35.04	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.30	3.57250	32.30	0.00	6.11	7.21	0.00	2.62	0.13	34.93	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.20	3.57529	32.30	0.00	6.12	7.19	0.00	2.62	0.13	34.82	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.10	3.57808	32.30	0.00	6.14	7.18	0.00	2.62	0.13	34.71	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.00	3.58087	32.30	0.00	6.16	7.16	0.00	2.61	0.13	34.60	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.90	3.58367	32.30	0.00	6.17	7.14	0.00	2.61	0.13	34.49	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.80	3.58646	32.30	0.00	6.19	7.13	0.00	2.61	0.13	34.38	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.70	3.58925	32.30	0.00	6.20	7.11	0.00	2.60	0.13	34.27	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.60	3.59205	32.30	0.00	6.21	7.09	0.00	2.60	0.13	34.16	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.50	3.59484	32.30	0.00	6.23	7.08	0.00	2.60	0.13	34.05	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.40	3.59763	32.30	0.00	6.24	7.06	0.00	2.59	0.13	33.95	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.30	3.60043	32.30	0.00	6.25	7.05	0.00	2.59	0.13	33.84	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.20	3.60322	32.30	0.00	6.26	7.03	0.00	2.59	0.13	33.73	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.10	3.60601	32.30	0.00	6.28	7.01	0.00	2.59	0.13	33.62	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.00	3.60881	32.30	0.00	6.29	7.00	0.00	2.58	0.13	33.51	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.90	3.61160	32.30	0.00	6.30	6.98	0.00	2.58	0.13	33.40	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.80	3.61439	32.30	0.00	6.31	6.97	0.00	2.58	0.13	33.29	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.70	3.61718	32.30	0.00	6.32	6.95	0.00	2.57	0.14	33.18	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.60	3.61998	32.30	0.00	6.32	6.94	0.00	2.57	0.14	33.07	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.50	3.62277	32.30	0.00	6.33	6.92	0.00	2.57	0.14	32.96	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.40	3.62556	32.30	0.00	6.34	6.91	0.00	2.56	0.14	32.85	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.30	3.62836	32.30	0.00	6.35	6.89	0.00	2.56	0.14	32.74	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.20	3.63115	32.30	0.00	6.36	6.88	0.00	2.56	0.14	32.63	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.10	3.63394	32.30	0.00	6.36	6.86	0.00	2.55	0.14	32.52	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.00	3.63674	32.30	0.00	6.37	6.85	0.00	2.55	0.14	32.41	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.90	3.63953	32.30	0.00	6.38	6.83	0.00	2.55	0.14	32.30	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.80	3.64232	32.30	0.00	6.38	6.82	0.00	2.54	0.14	32.19	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.70	3.64512	32.30	0.00	6.39	6.80	0.00	2.54	0.14	32.08	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.60	3.64791	32.30	0.00	6.39	6.79	0.00	2.54	0.14	31.97	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.50	3.65070	32.30	0.00	6.40	6.77	0.00	2.53	0.14	31.86	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.40	3.65349	32.30	0.00	6.40	6.76	0.00	2.53	0.14	31.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.30	3.65629	32.30	0.00	6.40	6.74	0.00	2.53	0.14	31.64	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.20	3.65908	32.30	0.00	6.41	6.73	0.00	2.52	0.14	31.53	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.10	3.66187	32.30	0.00	6.41	6.71	0.00	2.52	0.14	31.42	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.00	3.66467	32.30	0.00	6.42	6.70	0.00	2.52	0.14	31.32	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.90	3.66746	32.30	0.00	6.42	6.68	0.00	2.51	0.14	31.21	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.80	3.67025	32.30	0.00	6.42	6.67	0.00	2.51	0.14	31.10	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.70	3.67305	32.30	0.00	6.42	6.66	0.00	2.51	0.14	30.99	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.60	3.67584	32.30	0.00	6.42	6.64	0.00	2.51	0.14	30.88	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.50	3.67863	32.30	0.00	6.43	6.63	0.00	2.50	0.14	30.77	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.40	3.68143	32.30	0.00	6.43	6.61	0.00	2.50	0.14	30.66	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.30	3.68422	32.30	0.00	6.43	6.60	0.00	2.50	0.14	30.55	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.20	3.68701	32.30	0.00	6.43	6.59	0.00	2.49	0.14	30.44	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.10	3.68980	32.30	0.00	6.43	6.57	0.00	2.49	0.14	30.33	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.00	3.69260	32.30	0.00	6.43	6.56	0.00	2.49	0.14	30.22	0.62	0.09	0.00	0.00	0.00	0.38	3.25
0.90	3.69539	32.30	0.00	6.43	6.54	0.00	2.48	0.14	30.11	0.62	0.09	0.00	0.00	0.00	0.38	3.25

0.80	3.69818	32.30	0.00	6.43	6.53	0.00	2.48	0.14	30.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.70	3.70137	32.30	0.00	6.43	6.52	0.00	2.48	0.14	29.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.60	3.70456	32.30	0.00	6.42	6.50	0.00	2.47	0.14	28.50	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.50	3.70775	32.30	0.00	6.42	6.49	0.00	2.47	0.14	27.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.40	3.71093	32.30	0.00	6.41	6.48	0.00	2.47	0.14	27.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.30	3.71412	32.30	0.00	6.40	6.46	0.00	2.47	0.14	26.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.20	3.71731	32.30	0.00	6.39	6.45	0.00	2.46	0.14	25.50	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.10	3.72050	32.30	0.00	6.38	6.44	0.00	2.46	0.14	24.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.00	3.72368	32.30	0.00	6.35	6.52	0.00	2.44	0.14	24.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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	µg/L	m²/s	m	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
			HDWTR	30.667	31.5	0.0	6.2	16.1	0.0	1.6	0.1	70.0													
1	1	1	35.00	30.661	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.2	0.6	1.00	135.0	0.227	0.227	7.4	2.302	0.20	0.00	0.00	0.00	0.35	5.07
2	1	1	34.90	30.655	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.3	0.6	1.00	135.0	0.227	0.227	7.4	2.302	0.20	0.00	0.00	0.00	0.35	5.07
3	1	1	34.80	30.649	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.5	0.6	1.00	135.0	0.227	0.227	7.4	2.303	0.20	0.00	0.00	0.00	0.35	5.08
4	1	1	34.70	30.643	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.6	0.6	1.00	135.0	0.227	0.227	7.4	2.303	0.20	0.00	0.00	0.00	0.35	5.08
5	1	1	34.60	30.637	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.8	0.6	1.00	135.0	0.227	0.227	7.4	2.304	0.20	0.00	0.00	0.00	0.35	5.09
6	1	1	34.50	30.631	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.9	0.6	1.00	135.0	0.227	0.227	7.4	2.304	0.20	0.00	0.00	0.00	0.35	5.10
7	1	1	34.40	30.625	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.1	0.6	1.00	135.0	0.227	0.227	7.4	2.305	0.20	0.00	0.00	0.00	0.35	5.10
8	1	1	34.30	30.619	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.2	0.6	1.00	135.0	0.227	0.227	7.4	2.305	0.20	0.00	0.00	0.00	0.35	5.11
9	1	1	34.20	30.613	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.4	0.6	1.00	135.0	0.227	0.227	7.4	2.306	0.20	0.00	0.00	0.00	0.35	5.11
10	1	1	34.10	30.607	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.5	0.6	1.00	135.0	0.227	0.227	7.4	2.306	0.20	0.00	0.00	0.00	0.35	5.12
11	1	1	34.00	30.601	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.7	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.13
12	1	1	33.90	30.595	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.8	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.13
13	1	1	33.80	30.589	31.4	0.0	6.2	16.1	0.0	1.6	0.1	72.0	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.14
14	1	1	33.70	30.582	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.1	0.6	1.00	135.0	0.227	0.227	7.4	2.308	0.20	0.00	0.00	0.00	0.36	5.14
15	1	1	33.60	30.576	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.3	0.6	1.00	135.0	0.226	0.226	7.4	2.308	0.20	0.00	0.00	0.00	0.36	5.15
16	1	1	33.50	30.570	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.4	0.6	1.00	135.0	0.226	0.226	7.4	2.309	0.20	0.00	0.00	0.00	0.36	5.15
17	1	1	33.40	30.564	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.6	0.6	1.00	135.0	0.226	0.226	7.4	2.309	0.20	0.00	0.00	0.00	0.36	5.16
18	1	1	33.30	30.558	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.7	0.6	1.00	135.0	0.226	0.226	7.4	2.310	0.20	0.00	0.00	0.00	0.36	5.17
19	1	1	33.20	30.552	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.9	0.6	1.00	135.0	0.226	0.226	7.4	2.310	0.20	0.00	0.00	0.00	0.36	5.17
20	1	1	33.10	30.546	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.0	0.6	1.00	135.0	0.226	0.226	7.4	2.311	0.20	0.00	0.00	0.00	0.36	5.18
21	1	1	33.00	30.540	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.2	0.6	1.00	135.0	0.226	0.226	7.4	2.311	0.20	0.00	0.00	0.00	0.36	5.18
22	1	1	32.90	30.534	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.3	0.6	1.00	135.0	0.226	0.226	7.4	2.312	0.20	0.00	0.00	0.00	0.36	5.19
23	1	1	32.80	30.528	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.5	0.6	1.00	135.0	0.226	0.226	7.4	2.312	0.20	0.00	0.00	0.00	0.36	5.20
24	1	1	32.70	30.522	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.6	0.6	1.00	135.0	0.226	0.226	7.3	2.313	0.20	0.00	0.00	0.00	0.36	5.20
25	1	1	32.60	30.516	31.7	0.0	6.2	16.1	0.0	1.6	0.1	73.8	0.6	1.00	135.0	0.226	0.226	7.3	2.313	0.20	0.00	0.00	0.00	0.36	5.21
26	1	1	32.50	30.510	31.7	0.0	6.2	16.1	0.0	1.6	0.1	73.9	0.6	1.00	135.0	0.226	0.226	7.3	2.314	0.21	0.00	0.00	0.00	0.36	5.21
27	1	1	32.40	30.504	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.1	0.6	1.00	135.0	0.226	0.226	7.3	2.314	0.21	0.00	0.00	0.00	0.36	5.22
28	1	1	32.30	30.498	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.2	0.6	1.00	135.0	0.226	0.226	7.3	2.315	0.21	0.00	0.00	0.00	0.36	5.23
29	1	1	32.20	30.492	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.4	0.6	1.00	135.0	0.226	0.226	7.3	2.315	0.21	0.00	0.00	0.00	0.36	5.23
30	1	1	32.10	30.486	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.5	0.6	1.00	135.0	0.226	0.226	7.3	2.316	0.21	0.00	0.00	0.00	0.37	5.24
31	1	1	32.00	30.479	31.8	0.0	6.2	16.1	0.0	1.6	0.1	74.7	0.6	1.00	135.0	0.226	0.226	7.3	2.316	0.21	0.00	0.00	0.00	0.37	5.24
32	1	1	31.90	30.473	31.8	0.0	6.2	16.1	0.0	1.6	0.1	74.8	0.6	1.00	135.0	0.226	0.226	7.3	2.317	0.21	0.00	0.00	0.00	0.37	5.25
33	1	1	31.80	30.467	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.0	0.6	1.00	135.0	0.226	0.226	7.3	2.317	0.21	0.00	0.00	0.00	0.37	5.26
34	2	2	31.70	30.466	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.0	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
35	2	2	31.60	30.464	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
36	2	2	31.50	30.463	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68

37	2	2	31.40	30.461	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
38	2	2	31.30	30.459	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
39	2	2	31.20	30.458	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
40	2	2	31.10	30.456	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
41	2	2	31.00	30.455	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
42	2	2	30.90	30.453	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
43	2	2	30.80	30.452	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
44	2	2	30.70	30.450	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
45	2	2	30.60	30.448	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
46	2	2	30.50	30.447	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
47	2	2	30.40	30.445	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
48	2	2	30.30	30.444	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
49	2	2	30.20	30.442	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
50	2	2	30.10	30.441	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
51	2	2	30.00	30.439	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
52	2	2	29.90	30.437	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
53	2	2	29.80	30.436	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
54	2	2	29.70	30.434	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
55	2	2	29.60	30.433	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
56	2	2	29.50	30.431	31.8	0.0	6.2	16.8	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
57	2	2	29.40	30.430	31.8	0.0	6.2	16.8	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
58	2	2	29.30	30.428	31.8	0.0	6.2	16.8	0.0	1.6	0.1	76.0	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
59	2	2	29.20	30.426	31.8	0.0	6.2	16.8	0.0	1.6	0.1	76.0	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
60	2	2	29.10	30.425	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
61	2	2	29.00	30.423	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
62	2	2	28.90	30.422	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
63	2	2	28.80	30.420	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.2	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
64	2	2	28.70	30.419	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.2	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
65	2	2	28.60	30.417	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
66	2	2	28.50	30.415	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
67	2	2	28.40	30.414	31.8	0.0	6.2	17.1	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
68	2	2	28.30	30.412	31.8	0.0	6.2	17.1	0.0	1.6	0.1	76.4	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
69	2	2	28.20	30.411	31.8	0.0	6.2	17.1	0.0	1.7	0.1	76.4	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
70	2	2	28.10	30.409	31.8	0.0	6.2	17.1	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
71	2	2	28.00	30.407	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
72	2	2	27.90	30.406	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
73	2	2	27.80	30.404	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

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	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
74	2	2	27.70	30.403	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
75	2	2	27.60	30.401	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
76	2	2	27.50	30.400	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
77	2	2	27.40	30.398	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
78	2	2	27.30	30.396	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
79	2	2	27.20	30.395	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
80	2	2	27.10	30.393	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
81	2	2	27.00	30.392	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
82	2	2	26.90	30.390	31.8	0.0	6.2	17.5	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68

83	2	2	26.80	30.389	31.8	0.0	6.2	17.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
84	2	2	26.70	30.387	31.8	0.0	6.2	17.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
85	2	2	26.60	30.385	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
86	2	2	26.50	30.384	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
87	2	2	26.40	30.382	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
88	2	2	26.30	30.381	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
89	2	2	26.20	30.379	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
90	2	2	26.10	30.378	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
91	2	2	26.00	30.376	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.3	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
92	2	2	25.90	30.374	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.3	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
93	2	2	25.80	30.373	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
94	2	2	25.70	30.371	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
95	2	2	25.60	30.370	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
96	2	2	25.50	30.368	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.5	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
97	2	2	25.40	30.367	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.5	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
98	2	2	25.30	30.365	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
99	2	2	25.20	30.363	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
100	2	2	25.10	30.362	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
101	2	2	25.00	30.360	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.7	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
102	2	2	24.90	30.359	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.7	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
103	2	2	24.80	30.357	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
104	2	2	24.70	30.355	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
105	2	2	24.60	30.354	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
106	2	2	24.50	30.352	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.9	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
107	2	2	24.40	30.351	31.8	0.0	6.1	18.1	0.0	1.7	0.1	77.9	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
108	2	2	24.30	30.349	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
109	2	2	24.20	30.348	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
110	2	2	24.10	30.346	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
111	2	2	24.00	30.344	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
112	2	2	23.90	30.343	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
113	2	2	23.80	30.341	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
114	2	2	23.70	30.340	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.2	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
115	2	2	23.60	30.338	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.2	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
116	2	2	23.50	30.337	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
117	2	2	23.40	30.335	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
118	2	2	23.30	30.333	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
119	2	2	23.20	30.332	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.4	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
120	2	2	23.10	30.330	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.4	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
121	2	2	23.00	30.329	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
122	2	2	22.90	30.327	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
123	2	2	22.80	30.326	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
124	2	2	22.70	30.324	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.6	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
125	2	2	22.60	30.322	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.6	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
126	2	2	22.50	30.321	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
127	2	2	22.40	30.319	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
128	2	2	22.30	30.318	31.8	0.0	6.1	18.7	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
129	2	2	22.20	30.316	31.8	0.0	6.1	18.7	0.0	1.7	0.1	78.8	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
130	2	2	22.10	30.315	31.8	0.0	6.1	18.7	0.0	1.8	0.1	78.8	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
131	2	2	22.00	30.313	31.8	0.0	6.1	18.7	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
132	2	2	21.90	30.311	31.8	0.0	6.1	18.8	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68

133	2	2	21.80	30.310	31.8	0.0	6.1	18.8	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
134	2	2	21.70	30.308	31.8	0.0	6.1	18.8	0.0	1.8	0.1	79.0	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
135	2	2	21.60	30.307	31.8	0.0	6.1	18.8	0.0	1.8	0.1	79.0	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
136	2	2	21.50	30.305	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
137	2	2	21.40	30.303	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
138	2	2	21.30	30.302	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
139	2	2	21.20	30.300	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.2	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
140	2	2	21.10	30.299	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.2	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
141	2	2	21.00	30.297	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
142	2	2	20.90	30.296	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
143	2	2	20.80	30.294	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
144	2	2	20.70	30.292	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
145	2	2	20.60	30.291	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
146	2	2	20.50	30.289	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
147	2	2	20.40	30.288	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.5	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

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	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
148	2	2	20.30	30.286	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.5	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
149	2	2	20.20	30.285	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
150	2	2	20.10	30.283	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
151	2	2	20.00	30.281	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
152	2	2	19.90	30.280	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.7	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
153	2	2	19.80	30.278	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.7	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
154	2	2	19.70	30.277	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
155	2	2	19.60	30.275	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
156	2	2	19.50	30.274	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
157	2	2	19.40	30.272	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.9	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
158	2	2	19.30	30.270	31.8	0.0	6.1	19.4	0.0	1.8	0.1	79.9	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
159	2	2	19.20	30.269	31.8	0.0	6.1	19.4	0.0	1.8	0.1	80.0	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
160	2	2	19.10	30.267	31.8	0.0	6.1	19.4	0.0	1.8	0.1	80.0	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
DIVERSION # 161 (TRIB 1 OUTFLOW) LEAVES HERE																									
161	3	3	19.00	22.958	31.8	0.0	6.1	19.4	0.0	1.8	0.1	79.6	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
162	3	3	18.90	22.954	31.8	0.0	6.2	19.4	0.0	1.8	0.1	79.2	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
163	3	3	18.80	22.950	31.8	0.0	6.2	19.4	0.0	1.8	0.1	78.8	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
164	3	3	18.70	22.946	31.8	0.0	6.2	19.4	0.0	1.8	0.1	78.5	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
165	3	3	18.60	22.942	31.8	0.0	6.3	19.3	0.0	1.8	0.1	78.1	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
166	3	3	18.50	22.938	31.8	0.0	6.3	19.3	0.0	1.8	0.1	77.7	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
167	3	3	18.40	22.935	31.8	0.0	6.3	19.3	0.0	1.8	0.1	77.3	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
168	3	3	18.30	22.931	31.8	0.0	6.3	19.3	0.0	1.8	0.1	76.9	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
169	3	3	18.20	22.927	31.8	0.0	6.4	19.3	0.0	1.8	0.1	76.5	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
170	3	3	18.10	22.923	31.8	0.0	6.4	19.2	0.0	1.8	0.1	76.2	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
171	3	3	18.00	22.919	31.8	0.0	6.4	19.2	0.0	1.8	0.1	75.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
172	3	3	17.90	22.915	31.8	0.0	6.5	19.2	0.0	1.8	0.1	75.4	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
173	3	3	17.80	22.912	31.8	0.0	6.5	19.2	0.0	1.8	0.1	75.0	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
174	3	3	17.70	22.908	31.8	0.0	6.5	19.2	0.0	1.8	0.1	74.6	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
175	3	3	17.60	22.904	31.8	0.0	6.5	19.2	0.0	1.8	0.1	74.2	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
176	3	3	17.50	22.900	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
177	3	3	17.40	22.896	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.5	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15

178	3	3	17.30	22.892	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.1	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
179	3	3	17.20	22.888	31.8	0.0	6.6	19.1	0.0	1.8	0.1	72.7	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
180	3	3	17.10	22.885	31.8	0.0	6.7	19.1	0.0	1.8	0.1	72.3	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
181	3	3	17.00	22.881	31.8	0.0	6.7	19.1	0.0	1.8	0.1	71.9	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
182	3	3	16.90	22.877	31.8	0.0	6.7	19.0	0.0	1.8	0.1	71.5	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
183	3	3	16.80	22.873	31.8	0.0	6.7	19.0	0.0	1.8	0.1	71.2	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
184	3	3	16.70	22.869	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
185	3	3	16.60	22.865	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.4	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
186	3	3	16.50	22.862	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.0	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
187	3	3	16.40	22.858	31.8	0.0	6.8	19.0	0.0	1.8	0.1	69.6	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
188	3	3	16.30	22.854	31.8	0.0	6.9	18.9	0.0	1.8	0.1	69.2	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
189	3	3	16.20	22.850	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.8	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
190	3	3	16.10	22.846	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.5	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
191	3	3	16.00	22.842	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.1	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
192	3	3	15.90	22.838	31.8	0.0	6.9	18.9	0.0	1.8	0.1	67.7	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
193	3	3	15.80	22.835	31.8	0.0	7.0	18.9	0.0	1.8	0.1	67.3	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
194	3	3	15.70	22.831	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.9	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
195	3	3	15.60	22.827	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.5	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
196	3	3	15.50	22.823	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.2	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
197	3	3	15.40	22.819	31.8	0.0	7.0	18.8	0.0	1.8	0.1	65.8	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
198	3	3	15.30	22.815	31.8	0.0	7.0	18.8	0.0	1.8	0.1	65.4	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
199	3	3	15.20	22.812	31.8	0.0	7.1	18.8	0.0	1.8	0.1	65.0	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
200	3	3	15.10	22.808	31.8	0.0	7.1	18.7	0.0	1.8	0.1	64.6	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
201	3	3	15.00	22.804	31.8	0.0	7.1	18.7	0.0	1.8	0.1	64.2	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.37	3.15
202	3	3	14.90	22.800	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.8	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
203	3	3	14.80	22.796	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.5	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
204	3	3	14.70	22.792	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.1	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
205	3	3	14.60	22.788	31.8	0.0	7.2	18.7	0.0	1.8	0.1	62.7	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
206	3	3	14.50	22.785	31.8	0.0	7.2	18.6	0.0	1.8	0.1	62.3	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
207	3	3	14.40	22.781	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.9	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
208	3	3	14.30	22.777	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.5	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
209	3	3	14.20	22.773	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.2	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
210	3	3	14.10	22.769	31.8	0.0	7.2	18.6	0.0	1.8	0.1	60.8	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
211	3	3	14.00	22.765	31.8	0.0	7.2	18.6	0.0	1.8	0.1	60.4	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
212	3	3	13.90	22.762	31.8	0.0	7.2	18.5	0.0	1.8	0.1	60.0	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
WASTELOAD # 213 (TRIB 2 INFLOW) ENTERS HERE																									
213	4	4	13.80	25.022	31.8	0.0	7.0	17.1	0.0	1.8	0.1	59.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
214	4	4	13.70	25.017	31.8	0.0	7.0	17.1	0.0	1.8	0.1	59.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
215	4	4	13.60	25.012	31.8	0.0	7.0	17.1	0.0	1.8	0.1	58.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
216	4	4	13.50	25.007	31.8	0.0	7.0	17.1	0.0	1.8	0.1	58.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
217	4	4	13.40	25.002	31.8	0.0	7.0	17.1	0.0	1.8	0.1	57.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
218	4	4	13.30	24.997	31.8	0.0	7.1	17.0	0.0	1.8	0.1	57.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
219	4	4	13.20	24.992	31.8	0.0	7.1	17.0	0.0	1.8	0.1	56.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
220	4	4	13.10	24.987	31.8	0.0	7.1	17.0	0.0	1.8	0.1	56.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
221	4	4	13.00	24.982	31.8	0.0	7.1	17.0	0.0	1.8	0.1	55.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
222	4	4	12.90	24.977	31.8	0.0	7.1	17.0	0.0	1.8	0.1	55.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15

223	4	4	12.80	24.972	31.8	0.0	7.2	16.9	0.0	1.8	0.1	54.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
224	4	4	12.70	24.967	31.8	0.0	7.2	16.9	0.0	1.8	0.1	54.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
225	4	4	12.60	24.962	31.8	0.0	7.2	16.9	0.0	1.8	0.1	53.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
226	4	4	12.50	24.957	31.8	0.0	7.2	16.9	0.0	1.8	0.1	53.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
227	4	4	12.40	24.952	31.8	0.0	7.2	16.8	0.0	1.8	0.1	52.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
228	4	4	12.30	24.947	31.8	0.0	7.2	16.8	0.0	1.8	0.1	52.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
229	4	4	12.20	24.942	31.8	0.0	7.2	16.8	0.0	1.8	0.1	51.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
230	4	4	12.10	24.937	31.8	0.0	7.2	16.8	0.0	1.8	0.1	51.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
231	4	4	12.00	24.932	31.8	0.0	7.3	16.8	0.0	1.8	0.1	50.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
232	4	4	11.90	24.927	31.8	0.0	7.3	16.7	0.0	1.8	0.1	50.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
233	4	4	11.80	24.922	31.8	0.0	7.3	16.7	0.0	1.8	0.1	49.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
234	4	4	11.70	24.917	31.8	0.0	7.3	16.7	0.0	1.8	0.1	49.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
235	4	4	11.60	24.912	31.8	0.0	7.3	16.7	0.0	1.8	0.1	48.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
236	4	4	11.50	24.907	31.8	0.0	7.3	16.6	0.0	1.8	0.1	48.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
237	4	4	11.40	24.902	31.8	0.0	7.3	16.6	0.0	1.8	0.1	47.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
238	4	4	11.30	24.897	31.8	0.0	7.3	16.6	0.0	1.8	0.1	47.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
239	4	4	11.20	24.892	31.8	0.0	7.3	16.6	0.0	1.8	0.1	46.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
240	4	4	11.10	24.887	31.8	0.0	7.3	16.6	0.0	1.8	0.1	46.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
241	4	4	11.00	24.882	31.8	0.0	7.3	16.5	0.0	1.8	0.1	45.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
242	4	4	10.90	24.877	31.8	0.0	7.3	16.5	0.0	1.8	0.1	45.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
243	4	4	10.80	24.872	31.8	0.0	7.4	16.5	0.0	1.8	0.1	44.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
244	4	4	10.70	24.867	31.8	0.0	7.4	16.5	0.0	1.8	0.1	44.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
245	4	4	10.60	24.862	31.8	0.0	7.4	16.5	0.0	1.8	0.1	43.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
246	4	4	10.50	24.857	31.8	0.0	7.4	16.4	0.0	1.8	0.1	43.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
247	4	4	10.40	24.852	31.8	0.0	7.4	16.4	0.0	1.8	0.1	42.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
248	4	4	10.30	24.847	31.8	0.0	7.4	16.4	0.0	1.8	0.1	42.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
249	4	4	10.20	24.842	31.8	0.0	7.4	16.4	0.0	1.8	0.1	41.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
250	4	4	10.10	24.837	31.8	0.0	7.4	16.3	0.0	1.8	0.1	41.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
251	4	4	10.00	24.832	31.8	0.0	7.4	16.3	0.0	1.8	0.1	40.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
252	4	4	9.90	24.827	31.8	0.0	7.4	16.3	0.0	1.8	0.1	40.0	0.3	1.77	155.0	0.091	0.091	7.3	0.624	0.09	0.00	0.00	0.00	0.38	3.15
DIVERSION # 253 (TRIB 3 OUTFLOW) LEAVES HERE																									
253	5	5	9.80	5.483	31.8	0.0	7.4	16.3	0.0	1.8	0.1	39.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
254	5	5	9.70	5.480	31.8	0.0	7.4	16.2	0.0	1.8	0.1	39.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
255	5	5	9.60	5.477	31.8	0.0	7.4	16.2	0.0	1.8	0.1	39.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
256	5	5	9.50	5.474	31.8	0.0	7.4	16.1	0.0	1.7	0.1	39.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
257	5	5	9.40	5.471	31.8	0.0	7.4	16.1	0.0	1.7	0.1	38.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
258	5	5	9.30	5.467	31.8	0.0	7.3	16.0	0.0	1.7	0.1	38.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
259	5	5	9.20	5.464	31.8	0.0	7.3	16.0	0.0	1.7	0.1	38.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
260	5	5	9.10	5.461	31.8	0.0	7.3	15.9	0.0	1.7	0.1	38.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
261	5	5	9.00	5.458	31.8	0.0	7.3	15.9	0.0	1.7	0.1	37.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
262	5	5	8.90	5.455	31.8	0.0	7.3	15.8	0.0	1.7	0.1	37.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
263	5	5	8.80	5.451	31.8	0.0	7.3	15.7	0.0	1.7	0.1	37.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
264	5	5	8.70	5.448	31.8	0.0	7.3	15.7	0.0	1.7	0.1	37.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
265	5	5	8.60	5.445	31.8	0.0	7.3	15.6	0.0	1.7	0.1	36.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
266	5	5	8.50	5.442	31.8	0.0	7.3	15.6	0.0	1.7	0.1	36.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
267	5	5	8.40	5.439	31.8	0.0	7.3	15.5	0.0	1.7	0.1	36.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
268	5	5	8.30	5.436	31.8	0.0	7.3	15.5	0.0	1.7	0.1	35.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
269	5	5	8.20	5.432	31.8	0.0	7.3	15.4	0.0	1.7	0.1	35.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
270	5	5	8.10	5.429	31.8	0.0	7.3	15.4	0.0	1.7	0.1	35.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
271	5	5	8.00	5.426	31.8	0.0	7.2	15.3	0.0	1.7	0.1	35.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

272	5	5	7.90	5.423	31.8	0.0	7.2	15.3	0.0	1.7	0.1	34.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
273	5	5	7.80	5.420	31.8	0.0	7.2	15.2	0.0	1.7	0.1	34.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
274	5	5	7.70	5.417	31.8	0.0	7.2	15.2	0.0	1.7	0.1	34.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
275	5	5	7.60	5.413	31.8	0.0	7.2	15.1	0.0	1.7	0.1	34.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
276	5	5	7.50	5.410	31.8	0.0	7.2	15.1	0.0	1.7	0.1	33.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
277	5	5	7.40	5.407	31.8	0.0	7.2	15.0	0.0	1.7	0.1	33.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
278	5	5	7.30	5.404	31.8	0.0	7.2	15.0	0.0	1.7	0.1	33.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
279	5	5	7.20	5.401	31.8	0.0	7.2	14.9	0.0	1.7	0.1	33.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
280	5	5	7.10	5.398	31.8	0.0	7.1	14.9	0.0	1.7	0.1	32.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
281	5	5	7.00	5.394	31.8	0.0	7.1	14.8	0.0	1.7	0.1	32.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
282	5	5	6.90	5.391	31.8	0.0	7.1	14.8	0.0	1.7	0.1	32.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
283	5	5	6.80	5.388	31.8	0.0	7.1	14.7	0.0	1.7	0.1	32.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
284	5	5	6.70	5.385	31.8	0.0	7.1	14.7	0.0	1.7	0.1	31.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
285	5	5	6.60	5.382	31.8	0.0	7.1	14.6	0.0	1.7	0.1	31.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
286	5	5	6.50	5.378	31.8	0.0	7.0	14.6	0.0	1.7	0.1	31.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
287	5	5	6.40	5.375	31.8	0.0	7.0	14.5	0.0	1.7	0.1	31.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
288	5	5	6.30	5.372	31.8	0.0	7.0	14.5	0.0	1.7	0.1	30.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
289	5	5	6.20	5.369	31.8	0.0	7.0	14.4	0.0	1.7	0.1	30.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
290	5	5	6.10	5.366	31.8	0.0	7.0	14.4	0.0	1.7	0.1	30.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
291	5	5	6.00	5.363	31.8	0.0	7.0	14.3	0.0	1.7	0.1	30.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
292	5	5	5.90	5.359	31.8	0.0	6.9	14.3	0.0	1.7	0.1	29.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

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	DECA	SOD
			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
293	5	5	5.80	5.356	31.8	0.0	6.9	14.2	0.0	1.7	0.1	29.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
294	5	5	5.70	5.353	31.8	0.0	6.9	14.2	0.0	1.7	0.1	29.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
295	5	5	5.60	5.350	31.8	0.0	6.9	14.1	0.0	1.7	0.1	29.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
296	5	5	5.50	5.347	31.8	0.0	6.9	14.1	0.0	1.7	0.1	28.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
297	5	5	5.40	5.344	31.8	0.0	6.9	14.0	0.0	1.7	0.1	28.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
298	5	5	5.30	5.340	31.8	0.0	6.8	14.0	0.0	1.7	0.1	28.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
299	5	5	5.20	5.337	31.8	0.0	6.8	13.9	0.0	1.7	0.1	28.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
300	5	5	5.10	5.334	31.8	0.0	6.8	13.9	0.0	1.7	0.1	27.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
301	5	5	5.00	5.331	31.8	0.0	6.8	13.8	0.0	1.7	0.1	27.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
302	5	5	4.90	5.328	31.8	0.0	6.8	13.8	0.0	1.7	0.1	27.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
303	5	5	4.80	5.324	31.8	0.0	6.7	13.7	0.0	1.7	0.1	27.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
304	5	5	4.70	5.321	31.8	0.0	6.7	13.7	0.0	1.7	0.1	26.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
305	5	5	4.60	5.318	31.8	0.0	6.7	13.6	0.0	1.6	0.1	26.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
306	5	5	4.50	5.315	31.8	0.0	6.7	13.6	0.0	1.6	0.1	26.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
307	5	5	4.40	5.312	31.8	0.0	6.6	13.6	0.0	1.6	0.1	26.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
308	5	5	4.30	5.309	31.8	0.0	6.6	13.5	0.0	1.6	0.1	25.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
309	5	5	4.20	5.305	31.8	0.0	6.6	13.5	0.0	1.6	0.1	25.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
310	5	5	4.10	5.302	31.8	0.0	6.6	13.4	0.0	1.6	0.1	25.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
311	5	5	4.00	5.299	31.8	0.0	6.6	13.4	0.0	1.6	0.1	25.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
312	5	5	3.90	5.296	31.8	0.0	6.5	13.3	0.0	1.6	0.1	24.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
313	5	5	3.80	5.293	31.8	0.0	6.5	13.3	0.0	1.6	0.1	24.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
314	5	5	3.70	5.290	31.8	0.0	6.5	13.2	0.0	1.6	0.1	24.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
315	5	5	3.60	5.286	31.8	0.0	6.5	13.2	0.0	1.6	0.1	24.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
316	6	6	3.50	5.280	31.8	0.0	6.4	13.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16
317	6	6	3.40	5.273	31.8	0.0	6.4	13.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16

318	6	6	3.30	5.266	31.8	0.0	6.4	13.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.16
319	6	6	3.20	5.260	31.9	0.0	6.4	13.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
320	6	6	3.10	5.253	31.9	0.0	6.3	12.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
321	6	6	3.00	5.246	31.9	0.0	6.3	12.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
322	6	6	2.90	5.240	31.9	0.0	6.3	12.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
323	6	6	2.80	5.233	31.9	0.0	6.3	12.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
324	6	6	2.70	5.226	31.9	0.0	6.2	12.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
325	6	6	2.60	5.220	32.0	0.0	6.2	12.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
326	6	6	2.50	5.213	32.0	0.0	6.2	12.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
327	6	6	2.40	5.206	32.0	0.0	6.2	12.5	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
328	6	6	2.30	5.200	32.0	0.0	6.1	12.5	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
329	6	6	2.20	5.193	32.0	0.0	6.1	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
330	6	6	2.10	5.186	32.0	0.0	6.1	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
331	6	6	2.00	5.180	32.1	0.0	6.1	12.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.21
332	6	6	1.90	5.173	32.1	0.0	6.1	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
333	6	6	1.80	5.166	32.1	0.0	6.0	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
334	6	6	1.70	5.160	32.1	0.0	6.0	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
335	6	6	1.60	5.153	32.1	0.0	6.0	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
336	6	6	1.50	5.146	32.1	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
337	6	6	1.40	5.140	32.2	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.23
338	6	6	1.30	5.133	32.2	0.0	6.0	11.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
339	6	6	1.20	5.126	32.2	0.0	5.9	11.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
340	6	6	1.10	5.120	32.2	0.0	5.9	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
341	6	6	1.00	5.113	32.2	0.0	5.9	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
342	6	6	0.90	5.106	32.2	0.0	5.9	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
343	6	6	0.80	5.100	32.3	0.0	5.9	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
344	6	6	0.70	5.093	32.3	0.0	5.9	11.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
345	6	6	0.60	5.086	32.3	0.0	5.9	11.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
TRIBUTARY # 346 (Station 935) ENTERS HERE																										
526	17	17	0.50	8.810	32.3	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.792	0.09	0.00	0.00	0.00	0.38	3.25
527	17	17	0.40	8.810	32.3	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.25
528	17	17	0.30	8.810	32.2	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
529	17	17	0.20	8.810	32.2	0.0	6.1	9.3	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
530	17	17	0.10	8.810	32.2	0.0	6.1	9.3	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
531	17	17	0.00	8.810	32.2	0.0	6.1	8.4	0.0	1.7	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.790	0.09	0.00	0.00	0.00	0.38	3.23

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
346	7	7	17.90	0.113	31.5	0.0	4.7	3.2	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
347	7	7	17.80	0.113	31.5	0.0	4.7	3.1	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
348	7	7	17.70	0.113	31.4	0.0	4.8	2.9	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
349	7	7	17.60	0.113	31.4	0.0	4.8	2.8	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
350	7	7	17.50	0.113	31.4	0.0	4.8	2.6	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.22	3.07
351	7	7	17.40	0.113	31.4	0.0	4.8	2.5	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.22	3.07
352	7	7	17.30	0.113	31.3	0.0	4.9	2.4	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
353	7	7	17.20	0.113	31.3	0.0	4.9	2.3	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
354	7	7	17.10	0.113	31.3	0.0	4.9	2.1	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
355	7	7	17.00	0.113	31.3	0.0	4.9	2.0	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.05
356	7	7	16.90	0.113	31.2	0.0	5.0	1.9	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.05

357	7	7	16.80	0.113	31.2	0.0	5.0	1.8	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.04
358	7	7	16.70	0.113	31.2	0.0	5.0	1.7	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.04
359	7	7	16.60	0.113	31.2	0.0	5.1	1.7	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.03
360	7	7	16.50	0.113	31.2	0.0	5.1	1.6	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.03
361	7	7	16.40	0.113	31.1	0.0	5.1	1.5	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.02
362	7	7	16.30	0.113	31.1	0.0	5.1	1.4	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.02
363	7	7	16.20	0.113	31.1	0.0	5.1	1.3	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.02
364	7	7	16.10	0.113	31.1	0.0	5.2	1.3	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.01
365	7	7	16.00	0.113	31.0	0.0	5.2	1.2	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.01
366	7	7	15.90	0.113	31.0	0.0	5.2	1.2	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
367	7	7	15.80	0.113	31.0	0.0	5.2	1.1	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
368	8	8	15.70	0.284	31.0	0.0	7.0	2.7	0.0	0.7	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
369	8	8	15.60	0.455	31.0	0.0	7.0	2.9	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
370	8	8	15.50	0.626	31.0	0.0	7.0	2.9	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
371	8	8	15.40	0.797	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
372	8	8	15.30	0.967	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
373	8	8	15.20	1.138	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
374	8	8	15.10	1.309	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
375	8	8	15.00	1.480	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
376	8	8	14.90	1.651	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
377	9	9	14.80	1.804	31.0	0.0	6.3	3.6	0.0	1.1	0.1	11.2	0.0	1.77	983.0	0.001	0.001	7.4	0.644	0.08	0.00	0.00	0.00	0.23	3.01
378	9	9	14.70	1.957	31.1	0.0	6.0	4.0	0.0	1.3	0.1	12.3	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.01
379	9	9	14.60	2.110	31.1	0.0	5.8	4.3	0.0	1.4	0.1	13.5	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.02
WASTELOAD # 380 (TRIB 4 OUTFLOW) ENTERS HERE WITHOUT ANY FLOW																										
380	9	9	14.50	2.263	31.2	0.0	5.8	4.6	0.0	1.5	0.1	14.6	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.03
381	9	9	14.40	2.415	31.2	0.0	5.8	4.8	0.0	1.6	0.1	15.8	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
382	9	9	14.30	2.568	31.2	0.0	5.8	4.9	0.0	1.7	0.1	16.9	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
383	9	9	14.20	2.721	31.3	0.0	5.9	5.1	0.0	1.8	0.1	18.1	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.05
384	9	9	14.10	2.874	31.3	0.0	6.0	5.2	0.0	1.9	0.1	19.2	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.06
385	9	9	14.00	3.027	31.3	0.0	6.0	5.2	0.0	1.9	0.1	20.4	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.23	3.06
386	9	9	13.90	3.180	31.4	0.0	6.1	5.3	0.0	2.0	0.2	21.5	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.07
387	9	9	13.80	3.333	31.4	0.0	6.2	5.4	0.0	2.0	0.2	22.7	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.08
388	9	9	13.70	3.486	31.5	0.0	6.3	5.4	0.0	2.0	0.2	23.8	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
389	9	9	13.60	3.639	31.5	0.0	6.4	5.4	0.0	2.1	0.2	25.0	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
390	10	10	13.50	3.639	31.5	0.0	6.3	5.5	0.0	2.0	0.2	26.4	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
391	10	10	13.40	3.639	31.5	0.0	6.2	5.5	0.0	2.0	0.2	27.9	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
392	10	10	13.30	3.639	31.5	0.0	6.1	5.5	0.0	2.0	0.2	29.3	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
393	10	10	13.20	3.639	31.5	0.0	6.0	5.6	0.0	2.0	0.2	30.8	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
394	10	10	13.10	3.639	31.5	0.0	6.0	5.6	0.0	2.0	0.2	32.2	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
395	10	10	13.00	3.639	31.5	0.0	5.9	5.6	0.0	2.0	0.2	33.7	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
396	10	10	12.90	3.639	31.5	0.0	5.9	5.6	0.0	2.0	0.2	35.1	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
397	10	10	12.80	3.639	31.5	0.0	5.9	5.7	0.0	1.9	0.2	36.6	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
398	10	10	12.70	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.2	38.0	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
399	11	11	12.60	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
400	11	11	12.50	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
401	11	11	12.40	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
402	11	11	12.30	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
403	11	11	12.20	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
404	11	11	12.10	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
405	11	11	12.00	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78

406	11	11	11.90	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
407	11	11	11.80	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
408	11	11	11.70	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
409	11	11	11.60	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
410	11	11	11.50	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
411	11	11	11.40	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
412	11	11	11.30	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
413	11	11	11.20	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
414	11	11	11.10	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
415	11	11	11.00	3.639	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
416	11	11	10.90	3.639	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
417	11	11	10.80	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
418	12	12	10.70	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78

EXPANDED CAPSULE SUMMARY FOR Station 935

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	BOD2 SETT	NH3 DECA	NH3 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
419	12	12	10.60	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
420	12	12	10.50	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
421	12	12	10.40	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
422	12	12	10.30	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
423	12	12	10.20	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
424	12	12	10.10	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
425	12	12	10.00	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
426	12	12	9.90	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
427	12	12	9.80	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
428	12	12	9.70	3.639	31.5	0.0	5.5	6.2	0.0	1.7	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
429	12	12	9.60	3.639	31.5	0.0	5.5	6.2	0.0	1.7	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
430	12	12	9.50	3.639	31.5	0.0	5.4	6.3	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
WASTELOAD # 431 (TRIB 5 INFLOW) ENTERS HERE																									
431	13	13	9.40	6.669	31.5	0.0	4.7	7.9	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.066	0.066	7.4	0.751	0.08	0.00	0.00	0.00	0.34	3.09
432	13	13	9.30	6.669	31.5	0.0	4.7	7.9	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.066	0.066	7.4	0.751	0.08	0.00	0.00	0.00	0.34	3.09
DIVERSION # 433 (TRIB 6 OUTFLOW) LEAVES HERE																									
433	14	14	9.20	3.471	31.6	0.0	4.8	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.4	0.617	0.09	0.00	0.00	0.00	0.34	3.11
434	14	14	9.10	3.473	31.6	0.0	4.8	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.4	0.618	0.09	0.00	0.00	0.00	0.34	3.12
435	14	14	9.00	3.475	31.7	0.0	4.9	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.618	0.09	0.00	0.00	0.00	0.35	3.13
436	14	14	8.90	3.477	31.8	0.0	4.9	7.9	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.619	0.09	0.00	0.00	0.00	0.35	3.15
437	14	14	8.80	3.479	31.8	0.0	5.0	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.620	0.09	0.00	0.00	0.00	0.35	3.16
438	14	14	8.70	3.482	31.9	0.0	5.0	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.620	0.09	0.00	0.00	0.00	0.35	3.17
439	14	14	8.60	3.484	32.0	0.0	5.1	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.621	0.09	0.00	0.00	0.00	0.36	3.19
440	14	14	8.50	3.486	32.0	0.0	5.1	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.622	0.09	0.00	0.00	0.00	0.36	3.20
441	14	14	8.40	3.488	32.1	0.0	5.2	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.622	0.09	0.00	0.00	0.00	0.36	3.21
442	14	14	8.30	3.490	32.2	0.0	5.2	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.623	0.09	0.00	0.00	0.00	0.37	3.23
443	14	14	8.20	3.492	32.2	0.0	5.3	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.624	0.09	0.00	0.00	0.00	0.37	3.24
444	14	14	8.10	3.494	32.3	0.0	5.3	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
445	15	15	8.00	3.497	32.3	0.0	5.4	7.7	0.0	2.7	0.1	37.9	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
446	15	15	7.90	3.500	32.3	0.0	5.4	7.7	0.0	2.7	0.1	37.8	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
447	15	15	7.80	3.503	32.3	0.0	5.4	7.6	0.0	2.7	0.1	37.7	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
448	15	15	7.70	3.505	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.6	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
449	15	15	7.60	3.508	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.5	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25

450	15	15	7.50	3.511	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
451	15	15	7.40	3.514	32.3	0.0	5.6	7.6	0.0	2.7	0.1	37.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
452	15	15	7.30	3.517	32.3	0.0	5.6	7.6	0.0	2.7	0.1	37.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
453	15	15	7.20	3.519	32.3	0.0	5.6	7.5	0.0	2.7	0.1	37.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
454	15	15	7.10	3.522	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
455	15	15	7.00	3.525	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
456	15	15	6.90	3.528	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
457	15	15	6.80	3.531	32.3	0.0	5.8	7.5	0.0	2.7	0.1	36.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
458	15	15	6.70	3.533	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
459	15	15	6.60	3.536	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
460	15	15	6.50	3.539	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
461	15	15	6.40	3.542	32.3	0.0	5.9	7.4	0.0	2.7	0.1	36.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
462	15	15	6.30	3.545	32.3	0.0	5.9	7.4	0.0	2.7	0.1	36.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
463	15	15	6.20	3.547	32.3	0.0	5.9	7.4	0.0	2.7	0.1	35.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
464	15	15	6.10	3.550	32.3	0.0	5.9	7.3	0.0	2.7	0.1	35.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
465	15	15	6.00	3.553	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
466	15	15	5.90	3.556	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
467	15	15	5.80	3.559	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
468	15	15	5.70	3.561	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
469	15	15	5.60	3.564	32.3	0.0	6.1	7.3	0.0	2.6	0.1	35.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
470	15	15	5.50	3.567	32.3	0.0	6.1	7.2	0.0	2.6	0.1	35.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
471	15	15	5.40	3.570	32.3	0.0	6.1	7.2	0.0	2.6	0.1	35.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
472	15	15	5.30	3.572	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
473	15	15	5.20	3.575	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
474	15	15	5.10	3.578	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
475	15	15	5.00	3.581	32.3	0.0	6.2	7.2	0.0	2.6	0.1	34.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
476	15	15	4.90	3.584	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
477	15	15	4.80	3.586	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
478	15	15	4.70	3.589	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
479	15	15	4.60	3.592	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
480	15	15	4.50	3.595	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
481	15	15	4.40	3.598	32.3	0.0	6.2	7.1	0.0	2.6	0.1	33.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
482	15	15	4.30	3.600	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
483	15	15	4.20	3.603	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
484	15	15	4.10	3.606	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
485	15	15	4.00	3.609	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
486	15	15	3.90	3.612	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
487	15	15	3.80	3.614	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
488	15	15	3.70	3.617	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
489	15	15	3.60	3.620	32.3	0.0	6.3	6.9	0.0	2.6	0.1	33.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
490	15	15	3.50	3.623	32.3	0.0	6.3	6.9	0.0	2.6	0.1	33.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
491	15	15	3.40	3.626	32.3	0.0	6.3	6.9	0.0	2.6	0.1	32.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
492	15	15	3.30	3.628	32.3	0.0	6.3	6.9	0.0	2.6	0.1	32.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
493	15	15	3.20	3.631	32.3	0.0	6.4	6.9	0.0	2.6	0.1	32.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
494	15	15	3.10	3.634	32.3	0.0	6.4	6.9	0.0	2.6	0.1	32.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
495	15	15	3.00	3.637	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

496	15	15	2.90	3.640	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
497	15	15	2.80	3.642	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
498	15	15	2.70	3.645	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
499	15	15	2.60	3.648	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
500	15	15	2.50	3.651	32.3	0.0	6.4	6.8	0.0	2.5	0.1	31.9	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
501	15	15	2.40	3.653	32.3	0.0	6.4	6.8	0.0	2.5	0.1	31.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
502	15	15	2.30	3.656	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
503	15	15	2.20	3.659	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
504	15	15	2.10	3.662	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
505	15	15	2.00	3.665	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
506	15	15	1.90	3.667	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
507	15	15	1.80	3.670	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
508	15	15	1.70	3.673	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
509	15	15	1.60	3.676	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.9	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
510	15	15	1.50	3.679	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
511	15	15	1.40	3.681	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
512	15	15	1.30	3.684	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
513	15	15	1.20	3.687	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
514	15	15	1.10	3.690	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
515	15	15	1.00	3.693	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
516	15	15	0.90	3.695	32.3	0.0	6.4	6.5	0.0	2.5	0.1	30.1	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
517	15	15	0.80	3.698	32.3	0.0	6.4	6.5	0.0	2.5	0.1	30.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
518	16	16	0.70	3.701	32.3	0.0	6.4	6.5	0.0	2.5	0.1	29.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
519	16	16	0.60	3.705	32.3	0.0	6.4	6.5	0.0	2.5	0.1	28.5	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
520	16	16	0.50	3.708	32.3	0.0	6.4	6.5	0.0	2.5	0.1	27.8	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
521	16	16	0.40	3.711	32.3	0.0	6.4	6.5	0.0	2.5	0.1	27.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
522	16	16	0.30	3.714	32.3	0.0	6.4	6.5	0.0	2.5	0.1	26.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
523	16	16	0.20	3.717	32.3	0.0	6.4	6.5	0.0	2.5	0.1	25.5	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
524	16	16	0.10	3.720	32.3	0.0	6.4	6.4	0.0	2.5	0.1	24.8	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
525	16	16	0.00	3.724	32.3	0.0	6.4	6.5	0.0	2.4	0.1	24.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

SPECIAL REPORT: Bayou Chene

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	TEMP ppt	SALN *	SALN *	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A	MACRO #/100mL	COLI	NCM *
1	35.000	31.22	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.2	0.0	0.	0.00			
2	34.900	31.24	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.3	0.0	0.	0.00			
3	34.800	31.25	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.25	0.00	70.5	0.0	0.	0.00			
4	34.700	31.27	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.6	0.0	0.	0.00			
5	34.600	31.29	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.8	0.0	0.	0.00			
6	34.500	31.31	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.9	0.0	0.	0.00			
7	34.400	31.33	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	71.1	0.0	0.	0.00			
8	34.300	31.35	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.2	0.0	0.	0.00			
9	34.200	31.36	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.4	0.0	0.	0.00			
10	34.100	31.38	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.5	0.0	0.	0.00			
11	34.000	31.40	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.7	0.0	0.	0.00			
12	33.900	31.42	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.8	0.0	0.	0.00			
13	33.800	31.44	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.0	0.0	0.	0.00			
14	33.700	31.45	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.1	0.0	0.	0.00			
15	33.600	31.47	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.54	2.23	0.00	72.3	0.0	0.	0.00			
16	33.500	31.49	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.4	0.0	0.	0.00			

17	33.400	31.51	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.6	0.0	0.	0.00
18	33.300	31.53	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.7	0.0	0.	0.00
19	33.200	31.55	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	72.9	0.0	0.	0.00
20	33.100	31.56	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.0	0.0	0.	0.00
21	33.000	31.58	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.2	0.0	0.	0.00
22	32.900	31.60	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.3	0.0	0.	0.00
23	32.800	31.62	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.5	0.0	0.	0.00
24	32.700	31.64	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.6	0.0	0.	0.00
25	32.600	31.65	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.8	0.0	0.	0.00
26	32.500	31.67	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.9	0.0	0.	0.00
27	32.400	31.69	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	74.1	0.0	0.	0.00
28	32.300	31.71	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.21	0.00	74.2	0.0	0.	0.00
29	32.200	31.73	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.4	0.0	0.	0.00
30	32.100	31.75	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.5	0.0	0.	0.00
31	32.000	31.76	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.7	0.0	0.	0.00
32	31.900	31.78	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.8	0.0	0.	0.00
33	31.800	31.80	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	75.0	0.0	0.	0.00
34	31.700	31.80	0.0	0.0	0.0	6.22	16.11	0.00	16.11	0.00	1.59	0.10	0.50	2.20	0.00	75.0	0.0	0.	0.00
35	31.600	31.80	0.0	0.0	0.0	6.22	16.14	0.00	16.14	0.00	1.59	0.10	0.50	2.20	0.00	75.1	0.0	0.	0.00
36	31.500	31.80	0.0	0.0	0.0	6.22	16.17	0.00	16.17	0.00	1.59	0.10	0.50	2.20	0.00	75.1	0.0	0.	0.00
37	31.400	31.80	0.0	0.0	0.0	6.22	16.20	0.00	16.20	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
38	31.300	31.80	0.0	0.0	0.0	6.22	16.23	0.00	16.23	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
39	31.200	31.80	0.0	0.0	0.0	6.21	16.26	0.00	16.26	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
40	31.100	31.80	0.0	0.0	0.0	6.21	16.29	0.00	16.29	0.00	1.60	0.10	0.49	2.20	0.00	75.3	0.0	0.	0.00
41	31.000	31.80	0.0	0.0	0.0	6.21	16.32	0.00	16.32	0.00	1.60	0.10	0.49	2.20	0.00	75.3	0.0	0.	0.00
42	30.900	31.80	0.0	0.0	0.0	6.21	16.35	0.00	16.35	0.00	1.60	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
43	30.800	31.80	0.0	0.0	0.0	6.21	16.38	0.00	16.38	0.00	1.61	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
44	30.700	31.80	0.0	0.0	0.0	6.21	16.41	0.00	16.41	0.00	1.61	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
45	30.600	31.80	0.0	0.0	0.0	6.21	16.44	0.00	16.44	0.00	1.61	0.10	0.48	2.20	0.00	75.5	0.0	0.	0.00
46	30.500	31.80	0.0	0.0	0.0	6.21	16.47	0.00	16.47	0.00	1.61	0.10	0.48	2.20	0.00	75.5	0.0	0.	0.00
47	30.400	31.80	0.0	0.0	0.0	6.21	16.50	0.00	16.50	0.00	1.61	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
48	30.300	31.80	0.0	0.0	0.0	6.21	16.52	0.00	16.52	0.00	1.61	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
49	30.200	31.80	0.0	0.0	0.0	6.20	16.55	0.00	16.55	0.00	1.62	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
50	30.100	31.80	0.0	0.0	0.0	6.20	16.58	0.00	16.58	0.00	1.62	0.10	0.48	2.20	0.00	75.7	0.0	0.	0.00
51	30.000	31.80	0.0	0.0	0.0	6.20	16.61	0.00	16.61	0.00	1.62	0.10	0.47	2.20	0.00	75.7	0.0	0.	0.00
52	29.900	31.80	0.0	0.0	0.0	6.20	16.64	0.00	16.64	0.00	1.62	0.10	0.47	2.20	0.00	75.7	0.0	0.	0.00
53	29.800	31.80	0.0	0.0	0.0	6.20	16.67	0.00	16.67	0.00	1.62	0.10	0.47	2.20	0.00	75.8	0.0	0.	0.00
54	29.700	31.80	0.0	0.0	0.0	6.20	16.70	0.00	16.70	0.00	1.63	0.10	0.47	2.20	0.00	75.8	0.0	0.	0.00
55	29.600	31.80	0.0	0.0	0.0	6.20	16.73	0.00	16.73	0.00	1.63	0.10	0.47	2.20	0.00	75.9	0.0	0.	0.00
56	29.500	31.80	0.0	0.0	0.0	6.20	16.75	0.00	16.75	0.00	1.63	0.10	0.47	2.20	0.00	75.9	0.0	0.	0.00
57	29.400	31.80	0.0	0.0	0.0	6.20	16.78	0.00	16.78	0.00	1.63	0.10	0.46	2.20	0.00	75.9	0.0	0.	0.00
58	29.300	31.80	0.0	0.0	0.0	6.20	16.81	0.00	16.81	0.00	1.63	0.10	0.46	2.20	0.00	76.0	0.0	0.	0.00
59	29.200	31.80	0.0	0.0	0.0	6.19	16.84	0.00	16.84	0.00	1.63	0.10	0.46	2.20	0.00	76.0	0.0	0.	0.00
60	29.100	31.80	0.0	0.0	0.0	6.19	16.87	0.00	16.87	0.00	1.64	0.10	0.46	2.20	0.00	76.1	0.0	0.	0.00
61	29.000	31.80	0.0	0.0	0.0	6.19	16.90	0.00	16.90	0.00	1.64	0.10	0.46	2.19	0.00	76.1	0.0	0.	0.00
62	28.900	31.80	0.0	0.0	0.0	6.19	16.92	0.00	16.92	0.00	1.64	0.10	0.45	2.19	0.00	76.1	0.0	0.	0.00
63	28.800	31.80	0.0	0.0	0.0	6.19	16.95	0.00	16.95	0.00	1.64	0.10	0.45	2.19	0.00	76.2	0.0	0.	0.00
64	28.700	31.80	0.0	0.0	0.0	6.19	16.98	0.00	16.98	0.00	1.64	0.10	0.45	2.19	0.00	76.2	0.0	0.	0.00
65	28.600	31.80	0.0	0.0	0.0	6.19	17.01	0.00	17.01	0.00	1.64	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00
66	28.500	31.80	0.0	0.0	0.0	6.19	17.04	0.00	17.04	0.00	1.65	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00

67	28.400	31.80	0.0	0.0	0.0	6.19	17.06	0.00	17.06	0.00	1.65	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00
68	28.300	31.80	0.0	0.0	0.0	6.19	17.09	0.00	17.09	0.00	1.65	0.10	0.44	2.19	0.00	76.4	0.0	0.	0.00
69	28.200	31.80	0.0	0.0	0.0	6.18	17.12	0.00	17.12	0.00	1.65	0.10	0.44	2.19	0.00	76.4	0.0	0.	0.00
70	28.100	31.80	0.0	0.0	0.0	6.18	17.15	0.00	17.15	0.00	1.65	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
71	28.000	31.80	0.0	0.0	0.0	6.18	17.18	0.00	17.18	0.00	1.65	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
72	27.900	31.80	0.0	0.0	0.0	6.18	17.20	0.00	17.20	0.00	1.66	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
73	27.800	31.80	0.0	0.0	0.0	6.18	17.23	0.00	17.23	0.00	1.66	0.10	0.44	2.19	0.00	76.6	0.0	0.	0.00
74	27.700	31.80	0.0	0.0	0.0	6.18	17.26	0.00	17.26	0.00	1.66	0.10	0.43	2.19	0.00	76.6	0.0	0.	0.00
75	27.600	31.80	0.0	0.0	0.0	6.18	17.29	0.00	17.29	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
76	27.500	31.80	0.0	0.0	0.0	6.18	17.31	0.00	17.31	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
77	27.400	31.80	0.0	0.0	0.0	6.18	17.34	0.00	17.34	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
78	27.300	31.80	0.0	0.0	0.0	6.18	17.37	0.00	17.37	0.00	1.67	0.10	0.43	2.19	0.00	76.8	0.0	0.	0.00
79	27.200	31.80	0.0	0.0	0.0	6.18	17.40	0.00	17.40	0.00	1.67	0.10	0.43	2.19	0.00	76.8	0.0	0.	0.00
80	27.100	31.80	0.0	0.0	0.0	6.17	17.42	0.00	17.42	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
81	27.000	31.80	0.0	0.0	0.0	6.17	17.45	0.00	17.45	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
82	26.900	31.80	0.0	0.0	0.0	6.17	17.48	0.00	17.48	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
83	26.800	31.80	0.0	0.0	0.0	6.17	17.50	0.00	17.50	0.00	1.67	0.10	0.42	2.19	0.00	77.0	0.0	0.	0.00
84	26.700	31.80	0.0	0.0	0.0	6.17	17.53	0.00	17.53	0.00	1.68	0.10	0.42	2.19	0.00	77.0	0.0	0.	0.00
85	26.600	31.80	0.0	0.0	0.0	6.17	17.56	0.00	17.56	0.00	1.68	0.10	0.41	2.19	0.00	77.0	0.0	0.	0.00
86	26.500	31.80	0.0	0.0	0.0	6.17	17.58	0.00	17.58	0.00	1.68	0.10	0.41	2.19	0.00	77.1	0.0	0.	0.00
87	26.400	31.80	0.0	0.0	0.0	6.17	17.61	0.00	17.61	0.00	1.68	0.10	0.41	2.19	0.00	77.1	0.0	0.	0.00
88	26.300	31.80	0.0	0.0	0.0	6.17	17.64	0.00	17.64	0.00	1.68	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
89	26.200	31.80	0.0	0.0	0.0	6.17	17.66	0.00	17.66	0.00	1.68	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
90	26.100	31.80	0.0	0.0	0.0	6.16	17.69	0.00	17.69	0.00	1.69	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
91	26.000	31.80	0.0	0.0	0.0	6.16	17.72	0.00	17.72	0.00	1.69	0.10	0.40	2.19	0.00	77.3	0.0	0.	0.00
92	25.900	31.80	0.0	0.0	0.0	6.16	17.74	0.00	17.74	0.00	1.69	0.10	0.40	2.19	0.00	77.3	0.0	0.	0.00
93	25.800	31.80	0.0	0.0	0.0	6.16	17.77	0.00	17.77	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
94	25.700	31.80	0.0	0.0	0.0	6.16	17.80	0.00	17.80	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
95	25.600	31.80	0.0	0.0	0.0	6.16	17.82	0.00	17.82	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
96	25.500	31.80	0.0	0.0	0.0	6.16	17.85	0.00	17.85	0.00	1.70	0.10	0.40	2.19	0.00	77.5	0.0	0.	0.00
97	25.400	31.80	0.0	0.0	0.0	6.16	17.88	0.00	17.88	0.00	1.70	0.10	0.39	2.19	0.00	77.5	0.0	0.	0.00
98	25.300	31.80	0.0	0.0	0.0	6.16	17.90	0.00	17.90	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
99	25.200	31.80	0.0	0.0	0.0	6.16	17.93	0.00	17.93	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
100	25.100	31.80	0.0	0.0	0.0	6.16	17.95	0.00	17.95	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
101	25.000	31.80	0.0	0.0	0.0	6.15	17.98	0.00	17.98	0.00	1.70	0.10	0.39	2.19	0.00	77.7	0.0	0.	0.00
102	24.900	31.80	0.0	0.0	0.0	6.15	18.01	0.00	18.01	0.00	1.71	0.10	0.39	2.19	0.00	77.7	0.0	0.	0.00
103	24.800	31.80	0.0	0.0	0.0	6.15	18.03	0.00	18.03	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
104	24.700	31.80	0.0	0.0	0.0	6.15	18.06	0.00	18.06	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
105	24.600	31.80	0.0	0.0	0.0	6.15	18.08	0.00	18.08	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
106	24.500	31.80	0.0	0.0	0.0	6.15	18.11	0.00	18.11	0.00	1.71	0.10	0.38	2.19	0.00	77.9	0.0	0.	0.00
107	24.400	31.80	0.0	0.0	0.0	6.15	18.13	0.00	18.13	0.00	1.71	0.10	0.38	2.19	0.00	77.9	0.0	0.	0.00
108	24.300	31.80	0.0	0.0	0.0	6.15	18.16	0.00	18.16	0.00	1.72	0.10	0.38	2.19	0.00	78.0	0.0	0.	0.00
109	24.200	31.80	0.0	0.0	0.0	6.15	18.18	0.00	18.18	0.00	1.72	0.10	0.37	2.19	0.00	78.0	0.0	0.	0.00
110	24.100	31.80	0.0	0.0	0.0	6.15	18.21	0.00	18.21	0.00	1.72	0.10	0.37	2.19	0.00	78.0	0.0	0.	0.00
111	24.000	31.80	0.0	0.0	0.0	6.15	18.24	0.00	18.24	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
112	23.900	31.80	0.0	0.0	0.0	6.14	18.26	0.00	18.26	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
113	23.800	31.80	0.0	0.0	0.0	6.14	18.29	0.00	18.29	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
114	23.700	31.80	0.0	0.0	0.0	6.14	18.31	0.00	18.31	0.00	1.73	0.10	0.37	2.19	0.00	78.2	0.0	0.	0.00
115	23.600	31.80	0.0	0.0	0.0	6.14	18.34	0.00	18.34	0.00	1.73	0.10	0.36	2.19	0.00	78.2	0.0	0.	0.00
116	23.500	31.80	0.0	0.0	0.0	6.14	18.36	0.00	18.36	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0.	0.00

117	23.400	31.80	0.0	0.0	0.0	6.14	18.39	0.00	18.39	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0.	0.00
118	23.300	31.80	0.0	0.0	0.0	6.14	18.41	0.00	18.41	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0.	0.00
119	23.200	31.80	0.0	0.0	0.0	6.14	18.44	0.00	18.44	0.00	1.73	0.10	0.36	2.19	0.00	78.4	0.0	0.	0.00
120	23.100	31.80	0.0	0.0	0.0	6.14	18.46	0.00	18.46	0.00	1.73	0.10	0.36	2.19	0.00	78.4	0.0	0.	0.00
121	23.000	31.80	0.0	0.0	0.0	6.14	18.49	0.00	18.49	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0.	0.00
122	22.900	31.80	0.0	0.0	0.0	6.14	18.51	0.00	18.51	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0.	0.00
123	22.800	31.80	0.0	0.0	0.0	6.14	18.54	0.00	18.54	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0.	0.00
124	22.700	31.80	0.0	0.0	0.0	6.13	18.56	0.00	18.56	0.00	1.74	0.10	0.35	2.19	0.00	78.6	0.0	0.	0.00
125	22.600	31.80	0.0	0.0	0.0	6.13	18.59	0.00	18.59	0.00	1.74	0.10	0.35	2.19	0.00	78.6	0.0	0.	0.00
126	22.500	31.80	0.0	0.0	0.0	6.13	18.61	0.00	18.61	0.00	1.74	0.10	0.35	2.19	0.00	78.7	0.0	0.	0.00
127	22.400	31.80	0.0	0.0	0.0	6.13	18.64	0.00	18.64	0.00	1.75	0.10	0.34	2.19	0.00	78.7	0.0	0.	0.00
128	22.300	31.80	0.0	0.0	0.0	6.13	18.66	0.00	18.66	0.00	1.75	0.10	0.34	2.19	0.00	78.7	0.0	0.	0.00
129	22.200	31.80	0.0	0.0	0.0	6.13	18.68	0.00	18.68	0.00	1.75	0.10	0.34	2.19	0.00	78.8	0.0	0.	0.00
130	22.100	31.80	0.0	0.0	0.0	6.13	18.71	0.00	18.71	0.00	1.75	0.10	0.34	2.19	0.00	78.8	0.0	0.	0.00
131	22.000	31.80	0.0	0.0	0.0	6.13	18.73	0.00	18.73	0.00	1.75	0.10	0.34	2.19	0.00	78.9	0.0	0.	0.00
132	21.900	31.80	0.0	0.0	0.0	6.13	18.76	0.00	18.76	0.00	1.75	0.10	0.34	2.19	0.00	78.9	0.0	0.	0.00
133	21.800	31.80	0.0	0.0	0.0	6.13	18.78	0.00	18.78	0.00	1.76	0.10	0.33	2.19	0.00	78.9	0.0	0.	0.00
134	21.700	31.80	0.0	0.0	0.0	6.13	18.81	0.00	18.81	0.00	1.76	0.10	0.33	2.19	0.00	79.0	0.0	0.	0.00
135	21.600	31.80	0.0	0.0	0.0	6.13	18.83	0.00	18.83	0.00	1.76	0.10	0.33	2.19	0.00	79.0	0.0	0.	0.00
136	21.500	31.80	0.0	0.0	0.0	6.12	18.85	0.00	18.85	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0.	0.00
137	21.400	31.80	0.0	0.0	0.0	6.12	18.88	0.00	18.88	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0.	0.00
138	21.300	31.80	0.0	0.0	0.0	6.12	18.90	0.00	18.90	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0.	0.00
139	21.200	31.80	0.0	0.0	0.0	6.12	18.93	0.00	18.93	0.00	1.76	0.10	0.32	2.19	0.00	79.2	0.0	0.	0.00
140	21.100	31.80	0.0	0.0	0.0	6.12	18.95	0.00	18.95	0.00	1.77	0.10	0.32	2.19	0.00	79.2	0.0	0.	0.00
141	21.000	31.80	0.0	0.0	0.0	6.12	18.97	0.00	18.97	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0.	0.00
142	20.900	31.80	0.0	0.0	0.0	6.12	19.00	0.00	19.00	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0.	0.00
143	20.800	31.80	0.0	0.0	0.0	6.12	19.02	0.00	19.02	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0.	0.00
144	20.700	31.80	0.0	0.0	0.0	6.12	19.05	0.00	19.05	0.00	1.77	0.10	0.32	2.19	0.00	79.4	0.0	0.	0.00
145	20.600	31.80	0.0	0.0	0.0	6.12	19.07	0.00	19.07	0.00	1.77	0.10	0.31	2.19	0.00	79.4	0.0	0.	0.00
146	20.500	31.80	0.0	0.0	0.0	6.12	19.09	0.00	19.09	0.00	1.78	0.10	0.31	2.19	0.00	79.4	0.0	0.	0.00
147	20.400	31.80	0.0	0.0	0.0	6.12	19.12	0.00	19.12	0.00	1.78	0.10	0.31	2.19	0.00	79.5	0.0	0.	0.00
148	20.300	31.80	0.0	0.0	0.0	6.11	19.14	0.00	19.14	0.00	1.78	0.10	0.31	2.19	0.00	79.5	0.0	0.	0.00
149	20.200	31.80	0.0	0.0	0.0	6.11	19.16	0.00	19.16	0.00	1.78	0.10	0.31	2.19	0.00	79.6	0.0	0.	0.00
150	20.100	31.80	0.0	0.0	0.0	6.11	19.19	0.00	19.19	0.00	1.78	0.10	0.31	2.19	0.00	79.6	0.0	0.	0.00
151	20.000	31.80	0.0	0.0	0.0	6.11	19.21	0.00	19.21	0.00	1.78	0.10	0.30	2.19	0.00	79.6	0.0	0.	0.00
152	19.900	31.80	0.0	0.0	0.0	6.11	19.23	0.00	19.23	0.00	1.78	0.10	0.30	2.19	0.00	79.7	0.0	0.	0.00
153	19.800	31.80	0.0	0.0	0.0	6.11	19.26	0.00	19.26	0.00	1.79	0.10	0.30	2.19	0.00	79.7	0.0	0.	0.00
154	19.700	31.80	0.0	0.0	0.0	6.11	19.28	0.00	19.28	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0.	0.00
155	19.600	31.80	0.0	0.0	0.0	6.11	19.30	0.00	19.30	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0.	0.00
156	19.500	31.80	0.0	0.0	0.0	6.11	19.33	0.00	19.33	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0.	0.00
157	19.400	31.80	0.0	0.0	0.0	6.11	19.35	0.00	19.35	0.00	1.79	0.10	0.29	2.19	0.00	79.9	0.0	0.	0.00
158	19.300	31.80	0.0	0.0	0.0	6.11	19.37	0.00	19.37	0.00	1.79	0.10	0.29	2.19	0.00	79.9	0.0	0.	0.00
159	19.200	31.80	0.0	0.0	0.0	6.11	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	80.0	0.0	0.	0.00
160	19.100	31.80	0.0	0.0	0.0	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	2.19	0.00	80.0	0.0	0.	0.00
161	19.000	31.80	0.0	0.0	0.0	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.6	0.0	0.	0.00
162	18.900	31.80	0.0	0.0	0.0	6.16	19.39	0.00	19.39	0.00	1.80	0.10	0.29	2.18	0.00	79.2	0.0	0.	0.00
163	18.800	31.80	0.0	0.0	0.0	6.20	19.37	0.00	19.37	0.00	1.80	0.10	0.28	2.18	0.00	78.8	0.0	0.	0.00
164	18.700	31.80	0.0	0.0	0.0	6.23	19.35	0.00	19.35	0.00	1.79	0.10	0.28	2.18	0.00	78.5	0.0	0.	0.00
165	18.600	31.80	0.0	0.0	0.0	6.26	19.34	0.00	19.34	0.00	1.79	0.10	0.28	2.18	0.00	78.1	0.0	0.	0.00
166	18.500	31.80	0.0	0.0	0.0	6.29	19.32	0.00	19.32	0.00	1.79	0.10	0.28	2.17	0.00	77.7	0.0	0.	0.00

167	18.400	31.80	0.0	0.0	0.0	6.32	19.30	0.00	19.30	0.00	1.79	0.10	0.27	2.17	0.00	77.3	0.0	0.	0.00
168	18.300	31.80	0.0	0.0	0.0	6.35	19.28	0.00	19.28	0.00	1.79	0.10	0.27	2.17	0.00	76.9	0.0	0.	0.00
169	18.200	31.80	0.0	0.0	0.0	6.38	19.27	0.00	19.27	0.00	1.79	0.10	0.27	2.16	0.00	76.5	0.0	0.	0.00
170	18.100	31.80	0.0	0.0	0.0	6.41	19.25	0.00	19.25	0.00	1.79	0.10	0.27	2.16	0.00	76.2	0.0	0.	0.00
171	18.000	31.80	0.0	0.0	0.0	6.44	19.23	0.00	19.23	0.00	1.79	0.10	0.26	2.16	0.00	75.8	0.0	0.	0.00
172	17.900	31.80	0.0	0.0	0.0	6.46	19.21	0.00	19.21	0.00	1.79	0.10	0.26	2.15	0.00	75.4	0.0	0.	0.00
173	17.800	31.80	0.0	0.0	0.0	6.49	19.20	0.00	19.20	0.00	1.79	0.10	0.26	2.15	0.00	75.0	0.0	0.	0.00
174	17.700	31.80	0.0	0.0	0.0	6.52	19.18	0.00	19.18	0.00	1.79	0.10	0.26	2.15	0.00	74.6	0.0	0.	0.00
175	17.600	31.80	0.0	0.0	0.0	6.55	19.16	0.00	19.16	0.00	1.79	0.10	0.25	2.15	0.00	74.2	0.0	0.	0.00
176	17.500	31.80	0.0	0.0	0.0	6.57	19.15	0.00	19.15	0.00	1.79	0.10	0.25	2.14	0.00	73.8	0.0	0.	0.00
177	17.400	31.80	0.0	0.0	0.0	6.60	19.13	0.00	19.13	0.00	1.79	0.10	0.25	2.14	0.00	73.5	0.0	0.	0.00
178	17.300	31.80	0.0	0.0	0.0	6.62	19.11	0.00	19.11	0.00	1.79	0.10	0.25	2.14	0.00	73.1	0.0	0.	0.00
179	17.200	31.80	0.0	0.0	0.0	6.65	19.10	0.00	19.10	0.00	1.79	0.10	0.24	2.14	0.00	72.7	0.0	0.	0.00
180	17.100	31.80	0.0	0.0	0.0	6.67	19.08	0.00	19.08	0.00	1.79	0.10	0.24	2.13	0.00	72.3	0.0	0.	0.00
181	17.000	31.80	0.0	0.0	0.0	6.70	19.06	0.00	19.06	0.00	1.78	0.10	0.24	2.13	0.00	71.9	0.0	0.	0.00
182	16.900	31.80	0.0	0.0	0.0	6.72	19.04	0.00	19.04	0.00	1.78	0.10	0.24	2.13	0.00	71.5	0.0	0.	0.00
183	16.800	31.80	0.0	0.0	0.0	6.74	19.03	0.00	19.03	0.00	1.78	0.10	0.24	2.12	0.00	71.2	0.0	0.	0.00
184	16.700	31.80	0.0	0.0	0.0	6.77	19.01	0.00	19.01	0.00	1.78	0.10	0.23	2.12	0.00	70.8	0.0	0.	0.00
185	16.600	31.80	0.0	0.0	0.0	6.79	18.99	0.00	18.99	0.00	1.78	0.10	0.23	2.12	0.00	70.4	0.0	0.	0.00
186	16.500	31.80	0.0	0.0	0.0	6.81	18.98	0.00	18.98	0.00	1.78	0.10	0.23	2.12	0.00	70.0	0.0	0.	0.00
187	16.400	31.80	0.0	0.0	0.0	6.83	18.96	0.00	18.96	0.00	1.78	0.10	0.23	2.11	0.00	69.6	0.0	0.	0.00
188	16.300	31.80	0.0	0.0	0.0	6.85	18.94	0.00	18.94	0.00	1.78	0.10	0.22	2.11	0.00	69.2	0.0	0.	0.00
189	16.200	31.80	0.0	0.0	0.0	6.87	18.93	0.00	18.93	0.00	1.78	0.10	0.22	2.11	0.00	68.8	0.0	0.	0.00
190	16.100	31.80	0.0	0.0	0.0	6.90	18.91	0.00	18.91	0.00	1.78	0.10	0.22	2.11	0.00	68.5	0.0	0.	0.00
191	16.000	31.80	0.0	0.0	0.0	6.92	18.89	0.00	18.89	0.00	1.78	0.10	0.22	2.10	0.00	68.1	0.0	0.	0.00
192	15.900	31.80	0.0	0.0	0.0	6.94	18.88	0.00	18.88	0.00	1.78	0.11	0.22	2.10	0.00	67.7	0.0	0.	0.00
193	15.800	31.80	0.0	0.0	0.0	6.95	18.86	0.00	18.86	0.00	1.78	0.11	0.21	2.10	0.00	67.3	0.0	0.	0.00
194	15.700	31.80	0.0	0.0	0.0	6.97	18.84	0.00	18.84	0.00	1.78	0.11	0.21	2.09	0.00	66.9	0.0	0.	0.00
195	15.600	31.80	0.0	0.0	0.0	6.99	18.82	0.00	18.82	0.00	1.78	0.11	0.21	2.09	0.00	66.5	0.0	0.	0.00
196	15.500	31.80	0.0	0.0	0.0	7.01	18.81	0.00	18.81	0.00	1.78	0.11	0.21	2.09	0.00	66.2	0.0	0.	0.00
197	15.400	31.80	0.0	0.0	0.0	7.03	18.79	0.00	18.79	0.00	1.78	0.11	0.21	2.09	0.00	65.8	0.0	0.	0.00
198	15.300	31.80	0.0	0.0	0.0	7.05	18.77	0.00	18.77	0.00	1.78	0.11	0.20	2.08	0.00	65.4	0.0	0.	0.00
199	15.200	31.80	0.0	0.0	0.0	7.06	18.76	0.00	18.76	0.00	1.77	0.11	0.20	2.08	0.00	65.0	0.0	0.	0.00
200	15.100	31.80	0.0	0.0	0.0	7.08	18.74	0.00	18.74	0.00	1.77	0.11	0.20	2.08	0.00	64.6	0.0	0.	0.00
201	15.000	31.80	0.0	0.0	0.0	7.10	18.72	0.00	18.72	0.00	1.77	0.11	0.20	2.08	0.00	64.2	0.0	0.	0.00
202	14.900	31.80	0.0	0.0	0.0	7.11	18.71	0.00	18.71	0.00	1.77	0.11	0.20	2.07	0.00	63.8	0.0	0.	0.00
203	14.800	31.80	0.0	0.0	0.0	7.13	18.69	0.00	18.69	0.00	1.77	0.11	0.19	2.07	0.00	63.5	0.0	0.	0.00
204	14.700	31.80	0.0	0.0	0.0	7.14	18.67	0.00	18.67	0.00	1.77	0.11	0.19	2.07	0.00	63.1	0.0	0.	0.00
205	14.600	31.80	0.0	0.0	0.0	7.16	18.66	0.00	18.66	0.00	1.77	0.11	0.19	2.07	0.00	62.7	0.0	0.	0.00
206	14.500	31.80	0.0	0.0	0.0	7.17	18.64	0.00	18.64	0.00	1.77	0.11	0.19	2.06	0.00	62.3	0.0	0.	0.00
207	14.400	31.80	0.0	0.0	0.0	7.19	18.62	0.00	18.62	0.00	1.77	0.11	0.19	2.06	0.00	61.9	0.0	0.	0.00
208	14.300	31.80	0.0	0.0	0.0	7.20	18.61	0.00	18.61	0.00	1.77	0.11	0.18	2.06	0.00	61.5	0.0	0.	0.00
209	14.200	31.80	0.0	0.0	0.0	7.21	18.59	0.00	18.59	0.00	1.77	0.11	0.18	2.06	0.00	61.2	0.0	0.	0.00
210	14.100	31.80	0.0	0.0	0.0	7.23	18.58	0.00	18.58	0.00	1.77	0.11	0.18	2.06	0.00	60.8	0.0	0.	0.00
211	14.000	31.80	0.0	0.0	0.0	7.24	18.56	0.00	18.56	0.00	1.77	0.11	0.18	2.05	0.00	60.4	0.0	0.	0.00
212	13.900	31.80	0.0	0.0	0.0	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	2.05	0.00	60.0	0.0	0.	0.00
213	13.800	31.80	0.0	0.0	0.0	6.96	17.15	0.00	17.15	0.00	1.79	0.10	0.16	2.05	0.00	59.5	0.0	0.	0.00
214	13.700	31.80	0.0	0.0	0.0	6.98	17.13	0.00	17.13	0.00	1.79	0.10	0.16	2.04	0.00	59.0	0.0	0.	0.00
215	13.600	31.80	0.0	0.0	0.0	7.00	17.10	0.00	17.10	0.00	1.79	0.10	0.15	2.04	0.00	58.5	0.0	0.	0.00
216	13.500	31.80	0.0	0.0	0.0	7.02	17.08	0.00	17.08	0.00	1.79	0.10	0.15	2.04	0.00	58.0	0.0	0.	0.00

217	13.400	31.80	0.0	0.0	0.0	7.04	17.06	0.00	17.06	0.00	1.78	0.10	0.15	2.03	0.00	57.5	0.0	0.	0.00
218	13.300	31.80	0.0	0.0	0.0	7.06	17.04	0.00	17.04	0.00	1.78	0.10	0.14	2.03	0.00	57.0	0.0	0.	0.00
219	13.200	31.80	0.0	0.0	0.0	7.08	17.02	0.00	17.02	0.00	1.78	0.10	0.14	2.03	0.00	56.5	0.0	0.	0.00
220	13.100	31.80	0.0	0.0	0.0	7.10	16.99	0.00	16.99	0.00	1.78	0.10	0.14	2.02	0.00	56.0	0.0	0.	0.00
221	13.000	31.80	0.0	0.0	0.0	7.12	16.97	0.00	16.97	0.00	1.78	0.10	0.14	2.02	0.00	55.5	0.0	0.	0.00
222	12.900	31.80	0.0	0.0	0.0	7.14	16.95	0.00	16.95	0.00	1.78	0.10	0.13	2.02	0.00	55.0	0.0	0.	0.00
223	12.800	31.80	0.0	0.0	0.0	7.15	16.93	0.00	16.93	0.00	1.78	0.10	0.13	2.01	0.00	54.5	0.0	0.	0.00
224	12.700	31.80	0.0	0.0	0.0	7.17	16.91	0.00	16.91	0.00	1.78	0.10	0.13	2.01	0.00	54.0	0.0	0.	0.00
225	12.600	31.80	0.0	0.0	0.0	7.18	16.88	0.00	16.88	0.00	1.78	0.10	0.13	2.01	0.00	53.5	0.0	0.	0.00
226	12.500	31.80	0.0	0.0	0.0	7.20	16.86	0.00	16.86	0.00	1.78	0.10	0.12	2.00	0.00	53.0	0.0	0.	0.00
227	12.400	31.80	0.0	0.0	0.0	7.21	16.84	0.00	16.84	0.00	1.78	0.10	0.12	2.00	0.00	52.5	0.0	0.	0.00
228	12.300	31.80	0.0	0.0	0.0	7.23	16.82	0.00	16.82	0.00	1.78	0.10	0.12	2.00	0.00	52.0	0.0	0.	0.00
229	12.200	31.80	0.0	0.0	0.0	7.24	16.80	0.00	16.80	0.00	1.77	0.10	0.12	1.99	0.00	51.5	0.0	0.	0.00
230	12.100	31.80	0.0	0.0	0.0	7.25	16.78	0.00	16.78	0.00	1.77	0.10	0.11	1.99	0.00	51.0	0.0	0.	0.00
231	12.000	31.80	0.0	0.0	0.0	7.26	16.75	0.00	16.75	0.00	1.77	0.10	0.11	1.99	0.00	50.5	0.0	0.	0.00
232	11.900	31.80	0.0	0.0	0.0	7.27	16.73	0.00	16.73	0.00	1.77	0.10	0.11	1.98	0.00	50.0	0.0	0.	0.00
233	11.800	31.80	0.0	0.0	0.0	7.28	16.71	0.00	16.71	0.00	1.77	0.10	0.11	1.98	0.00	49.5	0.0	0.	0.00
234	11.700	31.80	0.0	0.0	0.0	7.29	16.69	0.00	16.69	0.00	1.77	0.10	0.11	1.98	0.00	49.0	0.0	0.	0.00
235	11.600	31.80	0.0	0.0	0.0	7.30	16.67	0.00	16.67	0.00	1.77	0.10	0.10	1.98	0.00	48.5	0.0	0.	0.00
236	11.500	31.80	0.0	0.0	0.0	7.31	16.65	0.00	16.65	0.00	1.77	0.10	0.10	1.97	0.00	48.0	0.0	0.	0.00
237	11.400	31.80	0.0	0.0	0.0	7.32	16.62	0.00	16.62	0.00	1.77	0.10	0.10	1.97	0.00	47.5	0.0	0.	0.00
238	11.300	31.80	0.0	0.0	0.0	7.32	16.60	0.00	16.60	0.00	1.77	0.10	0.10	1.97	0.00	47.0	0.0	0.	0.00
239	11.200	31.80	0.0	0.0	0.0	7.33	16.58	0.00	16.58	0.00	1.77	0.10	0.09	1.96	0.00	46.5	0.0	0.	0.00
240	11.100	31.80	0.0	0.0	0.0	7.34	16.56	0.00	16.56	0.00	1.77	0.10	0.09	1.96	0.00	46.0	0.0	0.	0.00
241	11.000	31.80	0.0	0.0	0.0	7.34	16.54	0.00	16.54	0.00	1.77	0.10	0.09	1.96	0.00	45.5	0.0	0.	0.00
242	10.900	31.80	0.0	0.0	0.0	7.35	16.52	0.00	16.52	0.00	1.76	0.10	0.09	1.96	0.00	45.0	0.0	0.	0.00
243	10.800	31.80	0.0	0.0	0.0	7.35	16.50	0.00	16.50	0.00	1.76	0.10	0.09	1.95	0.00	44.5	0.0	0.	0.00
244	10.700	31.80	0.0	0.0	0.0	7.36	16.47	0.00	16.47	0.00	1.76	0.10	0.08	1.95	0.00	44.0	0.0	0.	0.00
245	10.600	31.80	0.0	0.0	0.0	7.36	16.45	0.00	16.45	0.00	1.76	0.10	0.08	1.95	0.00	43.5	0.0	0.	0.00
246	10.500	31.80	0.0	0.0	0.0	7.36	16.43	0.00	16.43	0.00	1.76	0.10	0.08	1.95	0.00	43.0	0.0	0.	0.00
247	10.400	31.80	0.0	0.0	0.0	7.36	16.41	0.00	16.41	0.00	1.76	0.10	0.08	1.94	0.00	42.5	0.0	0.	0.00
248	10.300	31.80	0.0	0.0	0.0	7.37	16.39	0.00	16.39	0.00	1.76	0.10	0.08	1.94	0.00	42.0	0.0	0.	0.00
249	10.200	31.80	0.0	0.0	0.0	7.37	16.37	0.00	16.37	0.00	1.76	0.10	0.08	1.94	0.00	41.5	0.0	0.	0.00
250	10.100	31.80	0.0	0.0	0.0	7.37	16.35	0.00	16.35	0.00	1.76	0.10	0.07	1.94	0.00	41.0	0.0	0.	0.00
251	10.000	31.80	0.0	0.0	0.0	7.37	16.33	0.00	16.33	0.00	1.76	0.10	0.07	1.93	0.00	40.5	0.0	0.	0.00
252	9.900	31.80	0.0	0.0	0.0	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	1.93	0.00	40.0	0.0	0.	0.00
253	9.800	31.80	0.0	0.0	0.0	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	1.93	0.00	39.7	0.0	0.	0.00
254	9.700	31.80	0.0	0.0	0.0	7.36	16.24	0.00	16.24	0.00	1.75	0.10	0.06	1.92	0.00	39.5	0.0	0.	0.00
255	9.600	31.80	0.0	0.0	0.0	7.36	16.18	0.00	16.18	0.00	1.75	0.10	0.06	1.92	0.00	39.2	0.0	0.	0.00
256	9.500	31.80	0.0	0.0	0.0	7.36	16.13	0.00	16.13	0.00	1.75	0.10	0.06	1.91	0.00	39.0	0.0	0.	0.00
257	9.400	31.80	0.0	0.0	0.0	7.35	16.07	0.00	16.07	0.00	1.75	0.10	0.05	1.90	0.00	38.7	0.0	0.	0.00
258	9.300	31.80	0.0	0.0	0.0	7.35	16.01	0.00	16.01	0.00	1.75	0.10	0.05	1.90	0.00	38.5	0.0	0.	0.00
259	9.200	31.80	0.0	0.0	0.0	7.34	15.96	0.00	15.96	0.00	1.74	0.10	0.04	1.89	0.00	38.2	0.0	0.	0.00
260	9.100	31.80	0.0	0.0	0.0	7.34	15.91	0.00	15.91	0.00	1.74	0.11	0.04	1.89	0.00	38.0	0.0	0.	0.00
261	9.000	31.80	0.0	0.0	0.0	7.33	15.85	0.00	15.85	0.00	1.74	0.11	0.04	1.88	0.00	37.7	0.0	0.	0.00
262	8.900	31.80	0.0	0.0	0.0	7.33	15.80	0.00	15.80	0.00	1.74	0.11	0.03	1.87	0.00	37.5	0.0	0.	0.00
263	8.800	31.80	0.0	0.0	0.0	7.32	15.74	0.00	15.74	0.00	1.73	0.11	0.03	1.87	0.00	37.2	0.0	0.	0.00
264	8.700	31.80	0.0	0.0	0.0	7.31	15.69	0.00	15.69	0.00	1.73	0.11	0.02	1.86	0.00	37.0	0.0	0.	0.00
265	8.600	31.80	0.0	0.0	0.0	7.30	15.64	0.00	15.64	0.00	1.73	0.11	0.02	1.86	0.00	36.7	0.0	0.	0.00
266	8.500	31.80	0.0	0.0	0.0	7.30	15.58	0.00	15.58	0.00	1.73	0.11	0.02	1.85	0.00	36.4	0.0	0.	0.00

267	8.400	31.80	0.0	0.0	0.0	7.29	15.53	0.00	15.53	0.00	1.73	0.11	0.01	1.84	0.00	36.2	0.0	0. 0.00
268	8.300	31.80	0.0	0.0	0.0	7.28	15.48	0.00	15.48	0.00	1.72	0.11	0.01	1.84	0.00	35.9	0.0	0. 0.00
269	8.200	31.80	0.0	0.0	0.0	7.27	15.42	0.00	15.42	0.00	1.72	0.11	0.00	1.83	0.00	35.7	0.0	0. 0.00
270	8.100	31.80	0.0	0.0	0.0	7.26	15.37	0.00	15.37	0.00	1.72	0.11	0.00	1.83	0.00	35.4	0.0	0. 0.00
271	8.000	31.80	0.0	0.0	0.0	7.25	15.32	0.00	15.32	0.00	1.72	0.11	0.00	1.82	0.00	35.2	0.0	0. 0.00
272	7.900	31.80	0.0	0.0	0.0	7.24	15.27	0.00	15.27	0.00	1.72	0.11	0.00	1.82	0.00	34.9	0.0	0. 0.00
273	7.800	31.80	0.0	0.0	0.0	7.23	15.21	0.00	15.21	0.00	1.71	0.11	0.00	1.82	0.00	34.7	0.0	0. 0.00
274	7.700	31.80	0.0	0.0	0.0	7.21	15.16	0.00	15.16	0.00	1.71	0.11	0.00	1.82	0.00	34.4	0.0	0. 0.00
275	7.600	31.80	0.0	0.0	0.0	7.20	15.11	0.00	15.11	0.00	1.71	0.11	0.00	1.82	0.00	34.2	0.0	0. 0.00
276	7.500	31.80	0.0	0.0	0.0	7.19	15.06	0.00	15.06	0.00	1.71	0.11	0.00	1.81	0.00	33.9	0.0	0. 0.00
277	7.400	31.80	0.0	0.0	0.0	7.18	15.01	0.00	15.01	0.00	1.71	0.11	0.00	1.81	0.00	33.7	0.0	0. 0.00
278	7.300	31.80	0.0	0.0	0.0	7.16	14.96	0.00	14.96	0.00	1.70	0.11	0.00	1.81	0.00	33.4	0.0	0. 0.00
279	7.200	31.80	0.0	0.0	0.0	7.15	14.91	0.00	14.91	0.00	1.70	0.11	0.00	1.81	0.00	33.1	0.0	0. 0.00
280	7.100	31.80	0.0	0.0	0.0	7.14	14.85	0.00	14.85	0.00	1.70	0.11	0.00	1.81	0.00	32.9	0.0	0. 0.00
281	7.000	31.80	0.0	0.0	0.0	7.12	14.80	0.00	14.80	0.00	1.70	0.11	0.00	1.80	0.00	32.6	0.0	0. 0.00
282	6.900	31.80	0.0	0.0	0.0	7.11	14.75	0.00	14.75	0.00	1.70	0.11	0.00	1.80	0.00	32.4	0.0	0. 0.00
283	6.800	31.80	0.0	0.0	0.0	7.09	14.70	0.00	14.70	0.00	1.69	0.11	0.00	1.80	0.00	32.1	0.0	0. 0.00
284	6.700	31.80	0.0	0.0	0.0	7.08	14.65	0.00	14.65	0.00	1.69	0.11	0.00	1.80	0.00	31.9	0.0	0. 0.00
285	6.600	31.80	0.0	0.0	0.0	7.06	14.60	0.00	14.60	0.00	1.69	0.11	0.00	1.80	0.00	31.6	0.0	0. 0.00
286	6.500	31.80	0.0	0.0	0.0	7.05	14.55	0.00	14.55	0.00	1.69	0.11	0.00	1.79	0.00	31.4	0.0	0. 0.00
287	6.400	31.80	0.0	0.0	0.0	7.03	14.51	0.00	14.51	0.00	1.68	0.11	0.00	1.79	0.00	31.1	0.0	0. 0.00
288	6.300	31.80	0.0	0.0	0.0	7.01	14.46	0.00	14.46	0.00	1.68	0.11	0.00	1.79	0.00	30.9	0.0	0. 0.00
289	6.200	31.80	0.0	0.0	0.0	7.00	14.41	0.00	14.41	0.00	1.68	0.11	0.00	1.79	0.00	30.6	0.0	0. 0.00
290	6.100	31.80	0.0	0.0	0.0	6.98	14.36	0.00	14.36	0.00	1.68	0.11	0.00	1.79	0.00	30.3	0.0	0. 0.00
291	6.000	31.80	0.0	0.0	0.0	6.96	14.31	0.00	14.31	0.00	1.68	0.11	0.00	1.78	0.00	30.1	0.0	0. 0.00
292	5.900	31.80	0.0	0.0	0.0	6.94	14.26	0.00	14.26	0.00	1.67	0.11	0.00	1.78	0.00	29.8	0.0	0. 0.00
293	5.800	31.80	0.0	0.0	0.0	6.93	14.21	0.00	14.21	0.00	1.67	0.11	0.00	1.78	0.00	29.6	0.0	0. 0.00
294	5.700	31.80	0.0	0.0	0.0	6.91	14.17	0.00	14.17	0.00	1.67	0.11	0.00	1.78	0.00	29.3	0.0	0. 0.00
295	5.600	31.80	0.0	0.0	0.0	6.89	14.12	0.00	14.12	0.00	1.67	0.11	0.00	1.78	0.00	29.1	0.0	0. 0.00
296	5.500	31.80	0.0	0.0	0.0	6.87	14.07	0.00	14.07	0.00	1.67	0.11	0.00	1.78	0.00	28.8	0.0	0. 0.00
297	5.400	31.80	0.0	0.0	0.0	6.85	14.02	0.00	14.02	0.00	1.66	0.11	0.00	1.77	0.00	28.6	0.0	0. 0.00
298	5.300	31.80	0.0	0.0	0.0	6.83	13.97	0.00	13.97	0.00	1.66	0.11	0.00	1.77	0.00	28.3	0.0	0. 0.00
299	5.200	31.80	0.0	0.0	0.0	6.81	13.93	0.00	13.93	0.00	1.66	0.11	0.00	1.77	0.00	28.1	0.0	0. 0.00
300	5.100	31.80	0.0	0.0	0.0	6.79	13.88	0.00	13.88	0.00	1.66	0.11	0.00	1.77	0.00	27.8	0.0	0. 0.00
301	5.000	31.80	0.0	0.0	0.0	6.77	13.83	0.00	13.83	0.00	1.66	0.11	0.00	1.77	0.00	27.6	0.0	0. 0.00
302	4.900	31.80	0.0	0.0	0.0	6.75	13.79	0.00	13.79	0.00	1.65	0.11	0.00	1.76	0.00	27.3	0.0	0. 0.00
303	4.800	31.80	0.0	0.0	0.0	6.73	13.74	0.00	13.74	0.00	1.65	0.11	0.00	1.76	0.00	27.0	0.0	0. 0.00
304	4.700	31.80	0.0	0.0	0.0	6.71	13.70	0.00	13.70	0.00	1.65	0.11	0.00	1.76	0.00	26.8	0.0	0. 0.00
305	4.600	31.80	0.0	0.0	0.0	6.69	13.65	0.00	13.65	0.00	1.65	0.11	0.00	1.76	0.00	26.5	0.0	0. 0.00
306	4.500	31.80	0.0	0.0	0.0	6.67	13.60	0.00	13.60	0.00	1.65	0.11	0.00	1.76	0.00	26.3	0.0	0. 0.00
307	4.400	31.80	0.0	0.0	0.0	6.65	13.56	0.00	13.56	0.00	1.65	0.11	0.00	1.75	0.00	26.0	0.0	0. 0.00
308	4.300	31.80	0.0	0.0	0.0	6.63	13.51	0.00	13.51	0.00	1.64	0.11	0.00	1.75	0.00	25.8	0.0	0. 0.00
309	4.200	31.80	0.0	0.0	0.0	6.60	13.47	0.00	13.47	0.00	1.64	0.11	0.00	1.75	0.00	25.5	0.0	0. 0.00
310	4.100	31.80	0.0	0.0	0.0	6.58	13.42	0.00	13.42	0.00	1.64	0.11	0.00	1.75	0.00	25.3	0.0	0. 0.00
311	4.000	31.80	0.0	0.0	0.0	6.56	13.38	0.00	13.38	0.00	1.64	0.11	0.00	1.75	0.00	25.0	0.0	0. 0.00
312	3.900	31.80	0.0	0.0	0.0	6.54	13.33	0.00	13.33	0.00	1.64	0.11	0.00	1.74	0.00	24.8	0.0	0. 0.00
313	3.800	31.80	0.0	0.0	0.0	6.51	13.29	0.00	13.29	0.00	1.63	0.11	0.00	1.74	0.00	24.5	0.0	0. 0.00
314	3.700	31.80	0.0	0.0	0.0	6.49	13.24	0.00	13.24	0.00	1.63	0.11	0.00	1.74	0.00	24.3	0.0	0. 0.00
315	3.600	31.80	0.0	0.0	0.0	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0. 0.00
316	3.500	31.82	0.0	0.0	0.0	6.44	13.14	0.00	13.14	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0. 0.00

317	3.400	31.83	0.0	0.0	0.0	6.41	13.08	0.00	13.08	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
318	3.300	31.85	0.0	0.0	0.0	6.38	13.02	0.00	13.02	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
319	3.200	31.87	0.0	0.0	0.0	6.35	12.96	0.00	12.96	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
320	3.100	31.88	0.0	0.0	0.0	6.33	12.91	0.00	12.91	0.00	1.62	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
321	3.000	31.90	0.0	0.0	0.0	6.30	12.85	0.00	12.85	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
322	2.900	31.92	0.0	0.0	0.0	6.27	12.79	0.00	12.79	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
323	2.800	31.93	0.0	0.0	0.0	6.25	12.74	0.00	12.74	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
324	2.700	31.95	0.0	0.0	0.0	6.23	12.68	0.00	12.68	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
325	2.600	31.97	0.0	0.0	0.0	6.20	12.63	0.00	12.63	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
326	2.500	31.98	0.0	0.0	0.0	6.18	12.57	0.00	12.57	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
327	2.400	32.00	0.0	0.0	0.0	6.16	12.52	0.00	12.52	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
328	2.300	32.02	0.0	0.0	0.0	6.14	12.46	0.00	12.46	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
329	2.200	32.03	0.0	0.0	0.0	6.12	12.41	0.00	12.41	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
330	2.100	32.05	0.0	0.0	0.0	6.10	12.35	0.00	12.35	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
331	2.000	32.07	0.0	0.0	0.0	6.08	12.30	0.00	12.30	0.00	1.59	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
332	1.900	32.08	0.0	0.0	0.0	6.06	12.25	0.00	12.25	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
333	1.800	32.10	0.0	0.0	0.0	6.04	12.19	0.00	12.19	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
334	1.700	32.12	0.0	0.0	0.0	6.02	12.14	0.00	12.14	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
335	1.600	32.13	0.0	0.0	0.0	6.01	12.09	0.00	12.09	0.00	1.58	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
336	1.500	32.15	0.0	0.0	0.0	5.99	12.03	0.00	12.03	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
337	1.400	32.17	0.0	0.0	0.0	5.97	11.98	0.00	11.98	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
338	1.300	32.18	0.0	0.0	0.0	5.96	11.93	0.00	11.93	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
339	1.200	32.20	0.0	0.0	0.0	5.94	11.88	0.00	11.88	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
340	1.100	32.22	0.0	0.0	0.0	5.93	11.83	0.00	11.83	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
341	1.000	32.23	0.0	0.0	0.0	5.91	11.78	0.00	11.78	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
342	0.900	32.25	0.0	0.0	0.0	5.90	11.72	0.00	11.72	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
343	0.800	32.27	0.0	0.0	0.0	5.89	11.67	0.00	11.67	0.00	1.56	0.11	0.00	1.66	0.00	24.0	0.0	0.	0.00
344	0.700	32.28	0.0	0.0	0.0	5.88	11.59	0.00	11.59	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
345	0.600	32.30	0.0	0.0	0.0	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
526	0.500	32.28	0.0	0.0	0.0	6.07	9.39	0.00	9.39	0.00	1.93	0.12	0.00	2.06	0.00	24.0	0.0	0.	0.00
527	0.400	32.27	0.0	0.0	0.0	6.06	9.38	0.00	9.38	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
528	0.300	32.25	0.0	0.0	0.0	6.06	9.36	0.00	9.36	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
529	0.200	32.23	0.0	0.0	0.0	6.06	9.35	0.00	9.35	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
530	0.100	32.22	0.0	0.0	0.0	6.05	9.28	0.00	9.28	0.00	1.91	0.12	0.00	2.04	0.00	24.0	0.0	0.	0.00
531	0.000	32.20	0.0	0.0	0.0	6.05	8.45	0.00	8.45	0.00	1.69	0.12	0.00	1.81	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Station 935

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	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	CHL A #/100mL	MACRO *	COLI	NCM
346	17.900	31.48	0.0	0.0	0.0	4.71	3.25	0.00	3.25	0.00	0.89	0.10	0.03	1.01	0.00	10.0	0.0	0.	0.00	
347	17.800	31.45	0.0	0.0	0.0	4.73	3.08	0.00	3.08	0.00	0.87	0.10	0.01	0.99	0.00	10.0	0.0	0.	0.00	
348	17.700	31.43	0.0	0.0	0.0	4.76	2.92	0.00	2.92	0.00	0.86	0.10	0.00	0.96	0.00	10.0	0.0	0.	0.00	
349	17.600	31.41	0.0	0.0	0.0	4.78	2.78	0.00	2.78	0.00	0.85	0.10	0.00	0.94	0.00	10.0	0.0	0.	0.00	
350	17.500	31.39	0.0	0.0	0.0	4.81	2.64	0.00	2.64	0.00	0.83	0.10	0.00	0.93	0.00	10.0	0.0	0.	0.00	
351	17.400	31.36	0.0	0.0	0.0	4.84	2.50	0.00	2.50	0.00	0.82	0.10	0.00	0.92	0.00	10.0	0.0	0.	0.00	
352	17.300	31.34	0.0	0.0	0.0	4.87	2.38	0.00	2.38	0.00	0.81	0.10	0.00	0.90	0.00	10.0	0.0	0.	0.00	
353	17.200	31.32	0.0	0.0	0.0	4.89	2.26	0.00	2.26	0.00	0.79	0.10	0.00	0.89	0.00	10.0	0.0	0.	0.00	
354	17.100	31.30	0.0	0.0	0.0	4.92	2.14	0.00	2.14	0.00	0.78	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00	
355	17.000	31.27	0.0	0.0	0.0	4.95	2.03	0.00	2.03	0.00	0.77	0.09	0.00	0.86	0.00	10.0	0.0	0.	0.00	
356	16.900	31.25	0.0	0.0	0.0	4.98	1.93	0.00	1.93	0.00	0.76	0.09	0.00	0.85	0.00	10.0	0.0	0.	0.00	

357	16.800	31.23	0.0	0.0	0.0	5.00	1.84	0.00	1.84	0.00	0.75	0.09	0.00	0.84	0.00	10.0	0.0	0.	0.00
358	16.700	31.20	0.0	0.0	0.0	5.03	1.74	0.00	1.74	0.00	0.73	0.09	0.00	0.82	0.00	10.0	0.0	0.	0.00
359	16.600	31.18	0.0	0.0	0.0	5.05	1.66	0.00	1.66	0.00	0.72	0.09	0.00	0.81	0.00	10.0	0.0	0.	0.00
360	16.500	31.16	0.0	0.0	0.0	5.08	1.57	0.00	1.57	0.00	0.71	0.09	0.00	0.80	0.00	10.0	0.0	0.	0.00
361	16.400	31.14	0.0	0.0	0.0	5.10	1.49	0.00	1.49	0.00	0.70	0.09	0.00	0.79	0.00	10.0	0.0	0.	0.00
362	16.300	31.11	0.0	0.0	0.0	5.12	1.42	0.00	1.42	0.00	0.69	0.09	0.00	0.77	0.00	10.0	0.0	0.	0.00
363	16.200	31.09	0.0	0.0	0.0	5.15	1.35	0.00	1.35	0.00	0.68	0.08	0.00	0.76	0.00	10.0	0.0	0.	0.00
364	16.100	31.07	0.0	0.0	0.0	5.17	1.28	0.00	1.28	0.00	0.67	0.08	0.00	0.75	0.00	10.0	0.0	0.	0.00
365	16.000	31.05	0.0	0.0	0.0	5.19	1.22	0.00	1.22	0.00	0.66	0.08	0.00	0.74	0.00	10.0	0.0	0.	0.00
366	15.900	31.02	0.0	0.0	0.0	5.21	1.16	0.00	1.16	0.00	0.65	0.08	0.00	0.73	0.00	10.0	0.0	0.	0.00
367	15.800	31.00	0.0	0.0	0.0	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.72	0.00	10.0	0.0	0.	0.00
368	15.700	31.00	0.0	0.0	0.0	7.00	2.65	0.00	2.65	0.00	0.75	0.08	0.00	0.83	0.00	10.0	0.0	0.	0.00
369	15.600	31.00	0.0	0.0	0.0	7.03	2.87	0.00	2.87	0.00	0.77	0.08	0.00	0.86	0.00	10.0	0.0	0.	0.00
370	15.500	31.00	0.0	0.0	0.0	7.03	2.93	0.00	2.93	0.00	0.78	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
371	15.400	31.00	0.0	0.0	0.0	7.03	2.96	0.00	2.96	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
372	15.300	31.00	0.0	0.0	0.0	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
373	15.200	31.00	0.0	0.0	0.0	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
374	15.100	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
375	15.000	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
376	14.900	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
377	14.800	31.04	0.0	0.0	0.0	6.28	3.58	0.00	3.58	0.00	1.05	0.09	0.00	1.15	0.00	11.2	0.0	0.	0.00
378	14.700	31.08	0.0	0.0	0.0	5.95	4.01	0.00	4.01	0.00	1.25	0.10	0.00	1.36	0.00	12.3	0.0	0.	0.00
379	14.600	31.12	0.0	0.0	0.0	5.81	4.34	0.00	4.34	0.00	1.41	0.11	0.00	1.52	0.00	13.5	0.0	0.	0.00
380	14.500	31.15	0.0	0.0	0.0	5.77	4.59	0.00	4.59	0.00	1.54	0.12	0.00	1.66	0.00	14.6	0.0	0.	0.00
381	14.400	31.19	0.0	0.0	0.0	5.78	4.79	0.00	4.79	0.00	1.65	0.13	0.00	1.77	0.00	15.8	0.0	0.	0.00
382	14.300	31.23	0.0	0.0	0.0	5.83	4.94	0.00	4.94	0.00	1.73	0.13	0.00	1.86	0.00	16.9	0.0	0.	0.00
383	14.200	31.27	0.0	0.0	0.0	5.89	5.06	0.00	5.06	0.00	1.80	0.14	0.00	1.94	0.00	18.1	0.0	0.	0.00
384	14.100	31.31	0.0	0.0	0.0	5.96	5.16	0.00	5.16	0.00	1.86	0.14	0.00	2.01	0.00	19.2	0.0	0.	0.00
385	14.000	31.35	0.0	0.0	0.0	6.04	5.24	0.00	5.24	0.00	1.92	0.15	0.00	2.06	0.00	20.4	0.0	0.	0.00
386	13.900	31.38	0.0	0.0	0.0	6.13	5.31	0.00	5.31	0.00	1.96	0.15	0.00	2.11	0.00	21.5	0.0	0.	0.00
387	13.800	31.42	0.0	0.0	0.0	6.22	5.36	0.00	5.36	0.00	2.00	0.16	0.00	2.15	0.00	22.7	0.0	0.	0.00
388	13.700	31.46	0.0	0.0	0.0	6.32	5.41	0.00	5.41	0.00	2.03	0.16	0.00	2.19	0.00	23.8	0.0	0.	0.00
389	13.600	31.50	0.0	0.0	0.0	6.41	5.45	0.00	5.45	0.00	2.06	0.16	0.00	2.22	0.00	25.0	0.0	0.	0.00
390	13.500	31.50	0.0	0.0	0.0	6.29	5.48	0.00	5.48	0.00	2.04	0.16	0.00	2.20	0.00	26.4	0.0	0.	0.00
391	13.400	31.50	0.0	0.0	0.0	6.19	5.51	0.00	5.51	0.00	2.03	0.16	0.00	2.19	0.00	27.9	0.0	0.	0.00
392	13.300	31.50	0.0	0.0	0.0	6.10	5.54	0.00	5.54	0.00	2.01	0.16	0.00	2.17	0.00	29.3	0.0	0.	0.00
393	13.200	31.50	0.0	0.0	0.0	6.02	5.57	0.00	5.57	0.00	2.00	0.16	0.00	2.15	0.00	30.8	0.0	0.	0.00
394	13.100	31.50	0.0	0.0	0.0	5.96	5.59	0.00	5.59	0.00	1.98	0.15	0.00	2.14	0.00	32.2	0.0	0.	0.00
395	13.000	31.50	0.0	0.0	0.0	5.91	5.62	0.00	5.62	0.00	1.97	0.15	0.00	2.12	0.00	33.7	0.0	0.	0.00
396	12.900	31.50	0.0	0.0	0.0	5.88	5.65	0.00	5.65	0.00	1.96	0.15	0.00	2.11	0.00	35.1	0.0	0.	0.00
397	12.800	31.50	0.0	0.0	0.0	5.85	5.67	0.00	5.67	0.00	1.94	0.15	0.00	2.09	0.00	36.6	0.0	0.	0.00
398	12.700	31.50	0.0	0.0	0.0	5.84	5.70	0.00	5.70	0.00	1.93	0.15	0.00	2.08	0.00	38.0	0.0	0.	0.00
399	12.600	31.50	0.0	0.0	0.0	5.83	5.71	0.00	5.71	0.00	1.92	0.15	0.00	2.07	0.00	38.0	0.0	0.	0.00
400	12.500	31.50	0.0	0.0	0.0	5.82	5.73	0.00	5.73	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
401	12.400	31.50	0.0	0.0	0.0	5.82	5.74	0.00	5.74	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
402	12.300	31.50	0.0	0.0	0.0	5.81	5.76	0.00	5.76	0.00	1.90	0.15	0.00	2.05	0.00	38.0	0.0	0.	0.00
403	12.200	31.50	0.0	0.0	0.0	5.81	5.77	0.00	5.77	0.00	1.90	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
404	12.100	31.50	0.0	0.0	0.0	5.80	5.78	0.00	5.78	0.00	1.89	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
405	12.000	31.50	0.0	0.0	0.0	5.80	5.80	0.00	5.80	0.00	1.89	0.15	0.00	2.03	0.00	38.0	0.0	0.	0.00
406	11.900	31.50	0.0	0.0	0.0	5.79	5.81	0.00	5.81	0.00	1.88	0.15	0.00	2.03	0.00	38.0	0.0	0.	0.00

407	11.800	31.50	0.0	0.0	0.0	5.79	5.82	0.00	5.82	0.00	1.87	0.15	0.00	2.02	0.00	38.0	0.0	0.	0.00
408	11.700	31.50	0.0	0.0	0.0	5.78	5.84	0.00	5.84	0.00	1.87	0.15	0.00	2.01	0.00	38.0	0.0	0.	0.00
409	11.600	31.50	0.0	0.0	0.0	5.77	5.85	0.00	5.85	0.00	1.86	0.14	0.00	2.01	0.00	38.0	0.0	0.	0.00
410	11.500	31.50	0.0	0.0	0.0	5.77	5.86	0.00	5.86	0.00	1.86	0.14	0.00	2.00	0.00	38.0	0.0	0.	0.00
411	11.400	31.50	0.0	0.0	0.0	5.77	5.88	0.00	5.88	0.00	1.85	0.14	0.00	1.99	0.00	38.0	0.0	0.	0.00
412	11.300	31.50	0.0	0.0	0.0	5.76	5.89	0.00	5.89	0.00	1.85	0.14	0.00	1.99	0.00	38.0	0.0	0.	0.00
413	11.200	31.50	0.0	0.0	0.0	5.76	5.90	0.00	5.90	0.00	1.84	0.14	0.00	1.98	0.00	38.0	0.0	0.	0.00
414	11.100	31.50	0.0	0.0	0.0	5.75	5.91	0.00	5.91	0.00	1.83	0.14	0.00	1.98	0.00	38.0	0.0	0.	0.00
415	11.000	31.50	0.0	0.0	0.0	5.75	5.93	0.00	5.93	0.00	1.83	0.14	0.00	1.97	0.00	38.0	0.0	0.	0.00
416	10.900	31.50	0.0	0.0	0.0	5.74	5.94	0.00	5.94	0.00	1.82	0.14	0.00	1.97	0.00	38.0	0.0	0.	0.00
417	10.800	31.50	0.0	0.0	0.0	5.74	5.95	0.00	5.95	0.00	1.82	0.14	0.00	1.96	0.00	38.0	0.0	0.	0.00
418	10.700	31.50	0.0	0.0	0.0	5.71	5.98	0.00	5.98	0.00	1.81	0.14	0.00	1.95	0.00	38.0	0.0	0.	0.00
419	10.600	31.50	0.0	0.0	0.0	5.68	6.00	0.00	6.00	0.00	1.80	0.14	0.00	1.95	0.00	38.0	0.0	0.	0.00
420	10.500	31.50	0.0	0.0	0.0	5.66	6.03	0.00	6.03	0.00	1.80	0.14	0.00	1.94	0.00	38.0	0.0	0.	0.00
421	10.400	31.50	0.0	0.0	0.0	5.63	6.05	0.00	6.05	0.00	1.79	0.14	0.00	1.93	0.00	38.0	0.0	0.	0.00
422	10.300	31.50	0.0	0.0	0.0	5.61	6.08	0.00	6.08	0.00	1.79	0.14	0.00	1.92	0.00	38.0	0.0	0.	0.00
423	10.200	31.50	0.0	0.0	0.0	5.59	6.10	0.00	6.10	0.00	1.78	0.14	0.00	1.92	0.00	38.0	0.0	0.	0.00
424	10.100	31.50	0.0	0.0	0.0	5.57	6.13	0.00	6.13	0.00	1.77	0.14	0.00	1.91	0.00	38.0	0.0	0.	0.00
425	10.000	31.50	0.0	0.0	0.0	5.54	6.15	0.00	6.15	0.00	1.77	0.14	0.00	1.90	0.00	38.0	0.0	0.	0.00
426	9.900	31.50	0.0	0.0	0.0	5.52	6.17	0.00	6.17	0.00	1.76	0.14	0.00	1.90	0.00	38.0	0.0	0.	0.00
427	9.800	31.50	0.0	0.0	0.0	5.50	6.20	0.00	6.20	0.00	1.75	0.14	0.00	1.89	0.00	38.0	0.0	0.	0.00
428	9.700	31.50	0.0	0.0	0.0	5.48	6.22	0.00	6.22	0.00	1.75	0.14	0.00	1.88	0.00	38.0	0.0	0.	0.00
429	9.600	31.50	0.0	0.0	0.0	5.46	6.25	0.00	6.25	0.00	1.74	0.13	0.00	1.88	0.00	38.0	0.0	0.	0.00
430	9.500	31.50	0.0	0.0	0.0	5.41	6.33	0.00	6.33	0.00	1.78	0.13	0.00	1.91	0.00	38.0	0.0	0.	0.00
431	9.400	31.50	0.0	0.0	0.0	4.69	7.95	0.00	7.95	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
432	9.300	31.50	0.0	0.0	0.0	4.73	7.94	0.00	7.94	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
433	9.200	31.57	0.0	0.0	0.0	4.76	7.93	0.00	7.93	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
434	9.100	31.63	0.0	0.0	0.0	4.82	7.91	0.00	7.91	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
435	9.000	31.70	0.0	0.0	0.0	4.87	7.88	0.00	7.88	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
436	8.900	31.77	0.0	0.0	0.0	4.93	7.86	0.00	7.86	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
437	8.800	31.83	0.0	0.0	0.0	4.98	7.84	0.00	7.84	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
438	8.700	31.90	0.0	0.0	0.0	5.03	7.82	0.00	7.82	0.00	2.74	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
439	8.600	31.97	0.0	0.0	0.0	5.09	7.80	0.00	7.80	0.00	2.74	0.10	0.00	2.84	0.00	38.0	0.0	0.	0.00
440	8.500	32.03	0.0	0.0	0.0	5.14	7.78	0.00	7.78	0.00	2.74	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
441	8.400	32.10	0.0	0.0	0.0	5.18	7.76	0.00	7.76	0.00	2.73	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
442	8.300	32.17	0.0	0.0	0.0	5.23	7.74	0.00	7.74	0.00	2.73	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
443	8.200	32.23	0.0	0.0	0.0	5.28	7.72	0.00	7.72	0.00	2.73	0.11	0.00	2.83	0.00	38.0	0.0	0.	0.00
444	8.100	32.30	0.0	0.0	0.0	5.32	7.70	0.00	7.70	0.00	2.72	0.11	0.00	2.83	0.00	38.0	0.0	0.	0.00
445	8.000	32.30	0.0	0.0	0.0	5.36	7.68	0.00	7.68	0.00	2.72	0.11	0.00	2.83	0.00	37.9	0.0	0.	0.00
446	7.900	32.30	0.0	0.0	0.0	5.40	7.66	0.00	7.66	0.00	2.72	0.11	0.00	2.83	0.00	37.8	0.0	0.	0.00
447	7.800	32.30	0.0	0.0	0.0	5.44	7.64	0.00	7.64	0.00	2.71	0.11	0.00	2.82	0.00	37.7	0.0	0.	0.00
448	7.700	32.30	0.0	0.0	0.0	5.48	7.62	0.00	7.62	0.00	2.71	0.11	0.00	2.82	0.00	37.6	0.0	0.	0.00
449	7.600	32.30	0.0	0.0	0.0	5.51	7.61	0.00	7.61	0.00	2.70	0.11	0.00	2.82	0.00	37.5	0.0	0.	0.00
450	7.500	32.30	0.0	0.0	0.0	5.55	7.59	0.00	7.59	0.00	2.70	0.11	0.00	2.82	0.00	37.3	0.0	0.	0.00
451	7.400	32.30	0.0	0.0	0.0	5.58	7.57	0.00	7.57	0.00	2.70	0.12	0.00	2.81	0.00	37.2	0.0	0.	0.00
452	7.300	32.30	0.0	0.0	0.0	5.62	7.55	0.00	7.55	0.00	2.69	0.12	0.00	2.81	0.00	37.1	0.0	0.	0.00
453	7.200	32.30	0.0	0.0	0.0	5.65	7.53	0.00	7.53	0.00	2.69	0.12	0.00	2.81	0.00	37.0	0.0	0.	0.00
454	7.100	32.30	0.0	0.0	0.0	5.68	7.52	0.00	7.52	0.00	2.69	0.12	0.00	2.80	0.00	36.9	0.0	0.	0.00
455	7.000	32.30	0.0	0.0	0.0	5.71	7.50	0.00	7.50	0.00	2.68	0.12	0.00	2.80	0.00	36.8	0.0	0.	0.00
456	6.900	32.30	0.0	0.0	0.0	5.74	7.48	0.00	7.48	0.00	2.68	0.12	0.00	2.80	0.00	36.7	0.0	0.	0.00

457	6.800	32.30	0.0	0.0	0.0	5.77	7.46	0.00	7.46	0.00	2.68	0.12	0.00	2.80	0.00	36.6	0.0	0.	0.00
458	6.700	32.30	0.0	0.0	0.0	5.80	7.45	0.00	7.45	0.00	2.67	0.12	0.00	2.79	0.00	36.5	0.0	0.	0.00
459	6.600	32.30	0.0	0.0	0.0	5.82	7.43	0.00	7.43	0.00	2.67	0.12	0.00	2.79	0.00	36.4	0.0	0.	0.00
460	6.500	32.30	0.0	0.0	0.0	5.85	7.41	0.00	7.41	0.00	2.67	0.12	0.00	2.79	0.00	36.2	0.0	0.	0.00
461	6.400	32.30	0.0	0.0	0.0	5.87	7.39	0.00	7.39	0.00	2.66	0.12	0.00	2.78	0.00	36.1	0.0	0.	0.00
462	6.300	32.30	0.0	0.0	0.0	5.90	7.38	0.00	7.38	0.00	2.66	0.12	0.00	2.78	0.00	36.0	0.0	0.	0.00
463	6.200	32.30	0.0	0.0	0.0	5.92	7.36	0.00	7.36	0.00	2.66	0.12	0.00	2.78	0.00	35.9	0.0	0.	0.00
464	6.100	32.30	0.0	0.0	0.0	5.95	7.34	0.00	7.34	0.00	2.65	0.12	0.00	2.78	0.00	35.8	0.0	0.	0.00
465	6.000	32.30	0.0	0.0	0.0	5.97	7.33	0.00	7.33	0.00	2.65	0.12	0.00	2.77	0.00	35.7	0.0	0.	0.00
466	5.900	32.30	0.0	0.0	0.0	5.99	7.31	0.00	7.31	0.00	2.65	0.13	0.00	2.77	0.00	35.6	0.0	0.	0.00
467	5.800	32.30	0.0	0.0	0.0	6.01	7.29	0.00	7.29	0.00	2.64	0.13	0.00	2.77	0.00	35.5	0.0	0.	0.00
468	5.700	32.30	0.0	0.0	0.0	6.03	7.27	0.00	7.27	0.00	2.64	0.13	0.00	2.76	0.00	35.4	0.0	0.	0.00
469	5.600	32.30	0.0	0.0	0.0	6.05	7.26	0.00	7.26	0.00	2.64	0.13	0.00	2.76	0.00	35.3	0.0	0.	0.00
470	5.500	32.30	0.0	0.0	0.0	6.07	7.24	0.00	7.24	0.00	2.63	0.13	0.00	2.76	0.00	35.2	0.0	0.	0.00
471	5.400	32.30	0.0	0.0	0.0	6.09	7.22	0.00	7.22	0.00	2.63	0.13	0.00	2.76	0.00	35.0	0.0	0.	0.00
472	5.300	32.30	0.0	0.0	0.0	6.11	7.21	0.00	7.21	0.00	2.62	0.13	0.00	2.75	0.00	34.9	0.0	0.	0.00
473	5.200	32.30	0.0	0.0	0.0	6.12	7.19	0.00	7.19	0.00	2.62	0.13	0.00	2.75	0.00	34.8	0.0	0.	0.00
474	5.100	32.30	0.0	0.0	0.0	6.14	7.18	0.00	7.18	0.00	2.62	0.13	0.00	2.75	0.00	34.7	0.0	0.	0.00
475	5.000	32.30	0.0	0.0	0.0	6.16	7.16	0.00	7.16	0.00	2.61	0.13	0.00	2.74	0.00	34.6	0.0	0.	0.00
476	4.900	32.30	0.0	0.0	0.0	6.17	7.14	0.00	7.14	0.00	2.61	0.13	0.00	2.74	0.00	34.5	0.0	0.	0.00
477	4.800	32.30	0.0	0.0	0.0	6.19	7.13	0.00	7.13	0.00	2.61	0.13	0.00	2.74	0.00	34.4	0.0	0.	0.00
478	4.700	32.30	0.0	0.0	0.0	6.20	7.11	0.00	7.11	0.00	2.60	0.13	0.00	2.74	0.00	34.3	0.0	0.	0.00
479	4.600	32.30	0.0	0.0	0.0	6.21	7.09	0.00	7.09	0.00	2.60	0.13	0.00	2.73	0.00	34.2	0.0	0.	0.00
480	4.500	32.30	0.0	0.0	0.0	6.23	7.08	0.00	7.08	0.00	2.60	0.13	0.00	2.73	0.00	34.1	0.0	0.	0.00
481	4.400	32.30	0.0	0.0	0.0	6.24	7.06	0.00	7.06	0.00	2.59	0.13	0.00	2.73	0.00	33.9	0.0	0.	0.00
482	4.300	32.30	0.0	0.0	0.0	6.25	7.05	0.00	7.05	0.00	2.59	0.13	0.00	2.72	0.00	33.8	0.0	0.	0.00
483	4.200	32.30	0.0	0.0	0.0	6.26	7.03	0.00	7.03	0.00	2.59	0.13	0.00	2.72	0.00	33.7	0.0	0.	0.00
484	4.100	32.30	0.0	0.0	0.0	6.28	7.01	0.00	7.01	0.00	2.59	0.13	0.00	2.72	0.00	33.6	0.0	0.	0.00
485	4.000	32.30	0.0	0.0	0.0	6.29	7.00	0.00	7.00	0.00	2.58	0.13	0.00	2.72	0.00	33.5	0.0	0.	0.00
486	3.900	32.30	0.0	0.0	0.0	6.30	6.98	0.00	6.98	0.00	2.58	0.13	0.00	2.71	0.00	33.4	0.0	0.	0.00
487	3.800	32.30	0.0	0.0	0.0	6.31	6.97	0.00	6.97	0.00	2.58	0.13	0.00	2.71	0.00	33.3	0.0	0.	0.00
488	3.700	32.30	0.0	0.0	0.0	6.32	6.95	0.00	6.95	0.00	2.57	0.14	0.00	2.71	0.00	33.2	0.0	0.	0.00
489	3.600	32.30	0.0	0.0	0.0	6.32	6.94	0.00	6.94	0.00	2.57	0.14	0.00	2.70	0.00	33.1	0.0	0.	0.00
490	3.500	32.30	0.0	0.0	0.0	6.33	6.92	0.00	6.92	0.00	2.57	0.14	0.00	2.70	0.00	33.0	0.0	0.	0.00
491	3.400	32.30	0.0	0.0	0.0	6.34	6.91	0.00	6.91	0.00	2.56	0.14	0.00	2.70	0.00	32.8	0.0	0.	0.00
492	3.300	32.30	0.0	0.0	0.0	6.35	6.89	0.00	6.89	0.00	2.56	0.14	0.00	2.70	0.00	32.7	0.0	0.	0.00
493	3.200	32.30	0.0	0.0	0.0	6.36	6.88	0.00	6.88	0.00	2.56	0.14	0.00	2.69	0.00	32.6	0.0	0.	0.00
494	3.100	32.30	0.0	0.0	0.0	6.36	6.86	0.00	6.86	0.00	2.55	0.14	0.00	2.69	0.00	32.5	0.0	0.	0.00
495	3.000	32.30	0.0	0.0	0.0	6.37	6.85	0.00	6.85	0.00	2.55	0.14	0.00	2.69	0.00	32.4	0.0	0.	0.00
496	2.900	32.30	0.0	0.0	0.0	6.38	6.83	0.00	6.83	0.00	2.55	0.14	0.00	2.68	0.00	32.3	0.0	0.	0.00
497	2.800	32.30	0.0	0.0	0.0	6.38	6.82	0.00	6.82	0.00	2.54	0.14	0.00	2.68	0.00	32.2	0.0	0.	0.00
498	2.700	32.30	0.0	0.0	0.0	6.39	6.80	0.00	6.80	0.00	2.54	0.14	0.00	2.68	0.00	32.1	0.0	0.	0.00
499	2.600	32.30	0.0	0.0	0.0	6.39	6.79	0.00	6.79	0.00	2.54	0.14	0.00	2.68	0.00	32.0	0.0	0.	0.00
500	2.500	32.30	0.0	0.0	0.0	6.40	6.77	0.00	6.77	0.00	2.53	0.14	0.00	2.67	0.00	31.9	0.0	0.	0.00
501	2.400	32.30	0.0	0.0	0.0	6.40	6.76	0.00	6.76	0.00	2.53	0.14	0.00	2.67	0.00	31.8	0.0	0.	0.00
502	2.300	32.30	0.0	0.0	0.0	6.40	6.74	0.00	6.74	0.00	2.53	0.14	0.00	2.67	0.00	31.6	0.0	0.	0.00
503	2.200	32.30	0.0	0.0	0.0	6.41	6.73	0.00	6.73	0.00	2.52	0.14	0.00	2.66	0.00	31.5	0.0	0.	0.00
504	2.100	32.30	0.0	0.0	0.0	6.41	6.71	0.00	6.71	0.00	2.52	0.14	0.00	2.66	0.00	31.4	0.0	0.	0.00
505	2.000	32.30	0.0	0.0	0.0	6.42	6.70	0.00	6.70	0.00	2.52	0.14	0.00	2.66	0.00	31.3	0.0	0.	0.00
506	1.900	32.30	0.0	0.0	0.0	6.42	6.68	0.00	6.68	0.00	2.51	0.14	0.00	2.66	0.00	31.2	0.0	0.	0.00

507	1.800	32.30	0.0	0.0	0.0	6.42	6.67	0.00	6.67	0.00	2.51	0.14	0.00	2.65	0.00	31.1	0.0	0.	0.00
508	1.700	32.30	0.0	0.0	0.0	6.42	6.66	0.00	6.66	0.00	2.51	0.14	0.00	2.65	0.00	31.0	0.0	0.	0.00
509	1.600	32.30	0.0	0.0	0.0	6.42	6.64	0.00	6.64	0.00	2.51	0.14	0.00	2.65	0.00	30.9	0.0	0.	0.00
510	1.500	32.30	0.0	0.0	0.0	6.43	6.63	0.00	6.63	0.00	2.50	0.14	0.00	2.64	0.00	30.8	0.0	0.	0.00
511	1.400	32.30	0.0	0.0	0.0	6.43	6.61	0.00	6.61	0.00	2.50	0.14	0.00	2.64	0.00	30.7	0.0	0.	0.00
512	1.300	32.30	0.0	0.0	0.0	6.43	6.60	0.00	6.60	0.00	2.50	0.14	0.00	2.64	0.00	30.5	0.0	0.	0.00
513	1.200	32.30	0.0	0.0	0.0	6.43	6.59	0.00	6.59	0.00	2.49	0.14	0.00	2.64	0.00	30.4	0.0	0.	0.00
514	1.100	32.30	0.0	0.0	0.0	6.43	6.57	0.00	6.57	0.00	2.49	0.14	0.00	2.63	0.00	30.3	0.0	0.	0.00
515	1.000	32.30	0.0	0.0	0.0	6.43	6.56	0.00	6.56	0.00	2.49	0.14	0.00	2.63	0.00	30.2	0.0	0.	0.00
516	0.900	32.30	0.0	0.0	0.0	6.43	6.54	0.00	6.54	0.00	2.48	0.14	0.00	2.63	0.00	30.1	0.0	0.	0.00
517	0.800	32.30	0.0	0.0	0.0	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	2.62	0.00	30.0	0.0	0.	0.00
518	0.700	32.30	0.0	0.0	0.0	6.43	6.52	0.00	6.52	0.00	2.48	0.14	0.00	2.62	0.00	29.2	0.0	0.	0.00
519	0.600	32.30	0.0	0.0	0.0	6.42	6.50	0.00	6.50	0.00	2.47	0.14	0.00	2.62	0.00	28.5	0.0	0.	0.00
520	0.500	32.30	0.0	0.0	0.0	6.42	6.49	0.00	6.49	0.00	2.47	0.14	0.00	2.62	0.00	27.8	0.0	0.	0.00
521	0.400	32.30	0.0	0.0	0.0	6.41	6.48	0.00	6.48	0.00	2.47	0.14	0.00	2.61	0.00	27.0	0.0	0.	0.00
522	0.300	32.30	0.0	0.0	0.0	6.40	6.46	0.00	6.46	0.00	2.47	0.14	0.00	2.61	0.00	26.2	0.0	0.	0.00
523	0.200	32.30	0.0	0.0	0.0	6.39	6.45	0.00	6.45	0.00	2.46	0.14	0.00	2.61	0.00	25.5	0.0	0.	0.00
524	0.100	32.30	0.0	0.0	0.0	6.38	6.44	0.00	6.44	0.00	2.46	0.14	0.00	2.60	0.00	24.8	0.0	0.	0.00
525	0.000	32.30	0.0	0.0	0.0	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	2.58	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Chene

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
1	35.000	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00	
2	34.900	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00	
3	34.800	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00	
4	34.700	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00	
5	34.600	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	
6	34.500	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00	
7	34.400	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00	
8	34.300	7.39	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	
9	34.200	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00	
10	34.100	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00	
11	34.000	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00	
12	33.900	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00	
13	33.800	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00	
14	33.700	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00	
15	33.600	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00	
16	33.500	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00	
17	33.400	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	
18	33.300	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00	
19	33.200	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00	
20	33.100	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00	
21	33.000	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00	
22	32.900	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	
23	32.800	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	
24	32.700	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00	
25	32.600	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00	
26	32.500	7.35	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00	

27	32.400	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
28	32.300	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00
29	32.200	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00
30	32.100	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
31	32.000	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
32	31.900	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
33	31.800	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
34	31.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
35	31.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
36	31.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
37	31.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
38	31.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
39	31.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
40	31.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
41	31.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
42	30.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
43	30.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
44	30.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
45	30.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
46	30.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
47	30.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
48	30.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
49	30.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
50	30.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
51	30.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
52	29.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
53	29.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
54	29.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
55	29.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
56	29.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
57	29.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
58	29.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
59	29.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
60	29.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
61	29.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
62	28.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
63	28.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
64	28.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
65	28.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
66	28.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00

77	27.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
79	27.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
114	23.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
116	23.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00

127	22.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
129	22.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
161	19.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
162	18.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00

177	17.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
179	17.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00
209	14.200	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
212	13.900	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
213	13.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
214	13.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
215	13.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
216	13.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
217	13.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
218	13.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
219	13.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
220	13.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00
221	13.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00
222	12.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
223	12.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
224	12.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00
225	12.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
226	12.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00

227	12.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00
228	12.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00
229	12.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00
230	12.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
231	12.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
232	11.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
233	11.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
234	11.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00
235	11.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00
236	11.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
237	11.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00
238	11.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
239	11.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00
240	11.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00
241	11.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00
242	10.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
243	10.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
244	10.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
245	10.600	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00

277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00

327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
526	0.500	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
527	0.400	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
528	0.300	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
529	0.200	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
530	0.100	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
531	0.000	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00

SPECIAL REPORT: Station 935

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	BOD#2 DECAY 1/da	ABOD#2 SOD 1/da	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
368	15.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
369	15.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
370	15.500	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
371	15.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
372	15.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
373	15.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
374	15.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
375	15.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
376	14.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
390	13.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
391	13.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00
392	13.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00
393	13.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
394	13.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
395	13.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
396	12.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
397	12.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
398	12.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
414	11.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
415	11.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00

416	10.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
417	10.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
418	10.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
419	10.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
420	10.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
421	10.400	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
422	10.300	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
423	10.200	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
424	10.100	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
425	10.000	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
426	9.900	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
427	9.800	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
428	9.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
429	9.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
430	9.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
431	9.400	7.37	0.75	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.34	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
432	9.300	7.37	0.75	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.34	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
433	9.200	7.36	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.03	0.00	0.34	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
434	9.100	7.35	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.03	0.00	0.34	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
435	9.000	7.34	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.03	0.00	0.35	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
436	8.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.35	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
437	8.800	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.35	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
438	8.700	7.32	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.35	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
439	8.600	7.31	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.36	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
440	8.500	7.30	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.36	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
441	8.400	7.29	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.36	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
442	8.300	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
443	8.200	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
444	8.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
445	8.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
446	7.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
447	7.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
448	7.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
449	7.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
450	7.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
451	7.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
452	7.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
453	7.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
454	7.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
455	7.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
456	6.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
457	6.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
458	6.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
459	6.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
460	6.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
461	6.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
462	6.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00
463	6.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00
464	6.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
465	6.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00

466	5.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
467	5.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
468	5.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
469	5.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
470	5.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
471	5.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
472	5.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
473	5.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
474	5.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
475	5.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
476	4.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
477	4.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
478	4.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00

516	0.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
518	0.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
519	0.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
520	0.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
521	0.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
522	0.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
523	0.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
524	0.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
525	0.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Chene

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL DISPRSN m²/s	MEAN VELO m/s
1	35.10	35.00	30.6613	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
2	35.00	34.90	30.6552	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
3	34.90	34.80	30.6491	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
4	34.80	34.70	30.6431	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
5	34.70	34.60	30.6370	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
6	34.60	34.50	30.6310	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
7	34.50	34.40	30.6249	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
8	34.40	34.30	30.6188	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
9	34.30	34.20	30.6128	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
10	34.20	34.10	30.6067	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
11	34.10	34.00	30.6007	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
12	34.00	33.90	30.5946	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
13	33.90	33.80	30.5885	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
14	33.80	33.70	30.5825	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
15	33.70	33.60	30.5764	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
16	33.60	33.50	30.5704	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
17	33.50	33.40	30.5643	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
18	33.40	33.30	30.5582	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
19	33.30	33.20	30.5522	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
20	33.20	33.10	30.5461	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
21	33.10	33.00	30.5401	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
22	33.00	32.90	30.5340	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
23	32.90	32.80	30.5279	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
24	32.80	32.70	30.5219	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
25	32.70	32.60	30.5158	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
26	32.60	32.50	30.5098	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
27	32.50	32.40	30.5037	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
28	32.40	32.30	30.4976	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
29	32.30	32.20	30.4916	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
30	32.20	32.10	30.4855	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
31	32.10	32.00	30.4795	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
32	32.00	31.90	30.4734	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
33	31.90	31.80	30.4673	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
34	31.80	31.70	30.4658	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
35	31.70	31.60	30.4642	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277

36	31.60	31.50	30.4626	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
37	31.50	31.40	30.4610	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
38	31.40	31.30	30.4595	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
39	31.30	31.20	30.4579	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
40	31.20	31.10	30.4563	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
41	31.10	31.00	30.4547	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
42	31.00	30.90	30.4532	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
43	30.90	30.80	30.4516	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
44	30.80	30.70	30.4500	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
45	30.70	30.60	30.4484	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
46	30.60	30.50	30.4469	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
47	30.50	30.40	30.4453	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
48	30.40	30.30	30.4437	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
49	30.30	30.20	30.4421	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
50	30.20	30.10	30.4406	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
51	30.10	30.00	30.4390	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
52	30.00	29.90	30.4374	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
53	29.90	29.80	30.4358	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
54	29.80	29.70	30.4343	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
55	29.70	29.60	30.4327	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
56	29.60	29.50	30.4311	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
57	29.50	29.40	30.4295	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
58	29.40	29.30	30.4280	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
59	29.30	29.20	30.4264	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
60	29.20	29.10	30.4248	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
61	29.10	29.00	30.4232	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
62	29.00	28.90	30.4217	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
63	28.90	28.80	30.4201	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
64	28.80	28.70	30.4185	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
65	28.70	28.60	30.4169	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
66	28.60	28.50	30.4154	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
67	28.50	28.40	30.4138	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
68	28.40	28.30	30.4122	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
69	28.30	28.20	30.4106	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
70	28.20	28.10	30.4090	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
71	28.10	28.00	30.4075	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
72	28.00	27.90	30.4059	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
73	27.90	27.80	30.4043	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
74	27.80	27.70	30.4027	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
75	27.70	27.60	30.4012	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
76	27.60	27.50	30.3996	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
77	27.50	27.40	30.3980	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
78	27.40	27.30	30.3964	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
79	27.30	27.20	30.3949	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
80	27.20	27.10	30.3933	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
81	27.10	27.00	30.3917	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
82	27.00	26.90	30.3901	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
83	26.90	26.80	30.3886	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
84	26.80	26.70	30.3870	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
85	26.70	26.60	30.3854	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276

86	26.60	26.50	30.3838	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
87	26.50	26.40	30.3823	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
88	26.40	26.30	30.3807	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
89	26.30	26.20	30.3791	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
90	26.20	26.10	30.3775	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
91	26.10	26.00	30.3760	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
92	26.00	25.90	30.3744	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
93	25.90	25.80	30.3728	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
94	25.80	25.70	30.3712	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
95	25.70	25.60	30.3697	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
96	25.60	25.50	30.3681	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
97	25.50	25.40	30.3665	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
98	25.40	25.30	30.3649	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
99	25.30	25.20	30.3634	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
100	25.20	25.10	30.3618	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
101	25.10	25.00	30.3602	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
102	25.00	24.90	30.3586	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
103	24.90	24.80	30.3571	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
104	24.80	24.70	30.3555	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
105	24.70	24.60	30.3539	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
106	24.60	24.50	30.3523	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
107	24.50	24.40	30.3508	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
108	24.40	24.30	30.3492	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
109	24.30	24.20	30.3476	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
110	24.20	24.10	30.3460	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
111	24.10	24.00	30.3445	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
112	24.00	23.90	30.3429	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
113	23.90	23.80	30.3413	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
114	23.80	23.70	30.3397	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
115	23.70	23.60	30.3382	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
116	23.60	23.50	30.3366	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
117	23.50	23.40	30.3350	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
118	23.40	23.30	30.3334	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
119	23.30	23.20	30.3319	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
120	23.20	23.10	30.3303	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
121	23.10	23.00	30.3287	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
122	23.00	22.90	30.3271	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
123	22.90	22.80	30.3256	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
124	22.80	22.70	30.3240	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
125	22.70	22.60	30.3224	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
126	22.60	22.50	30.3208	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
127	22.50	22.40	30.3192	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
128	22.40	22.30	30.3177	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
129	22.30	22.20	30.3161	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
130	22.20	22.10	30.3145	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
131	22.10	22.00	30.3129	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
132	22.00	21.90	30.3114	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
133	21.90	21.80	30.3098	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
134	21.80	21.70	30.3082	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
135	21.70	21.60	30.3066	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276

136	21.60	21.50	30.3051	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
137	21.50	21.40	30.3035	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
138	21.40	21.30	30.3019	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
139	21.30	21.20	30.3003	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
140	21.20	21.10	30.2988	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
141	21.10	21.00	30.2972	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
142	21.00	20.90	30.2956	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
143	20.90	20.80	30.2940	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
144	20.80	20.70	30.2925	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
145	20.70	20.60	30.2909	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
146	20.60	20.50	30.2893	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
147	20.50	20.40	30.2877	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
148	20.40	20.30	30.2862	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
149	20.30	20.20	30.2846	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
150	20.20	20.10	30.2830	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
151	20.10	20.00	30.2814	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
152	20.00	19.90	30.2799	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
153	19.90	19.80	30.2783	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
154	19.80	19.70	30.2767	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
155	19.70	19.60	30.2751	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
156	19.60	19.50	30.2736	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
157	19.50	19.40	30.2720	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
158	19.40	19.30	30.2704	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
159	19.30	19.20	30.2688	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
160	19.20	19.10	30.2673	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
161	19.10	19.00	22.9577	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
162	19.00	18.90	22.9539	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
163	18.90	18.80	22.9500	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
164	18.80	18.70	22.9462	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
165	18.70	18.60	22.9423	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
166	18.60	18.50	22.9385	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
167	18.50	18.40	22.9346	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
168	18.40	18.30	22.9308	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
169	18.30	18.20	22.9269	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
170	18.20	18.10	22.9231	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
171	18.10	18.00	22.9192	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
172	18.00	17.90	22.9154	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
173	17.90	17.80	22.9115	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
174	17.80	17.70	22.9077	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
175	17.70	17.60	22.9039	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
176	17.60	17.50	22.9000	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
177	17.50	17.40	22.8962	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
178	17.40	17.30	22.8923	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
179	17.30	17.20	22.8885	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
180	17.20	17.10	22.8846	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
181	17.10	17.00	22.8808	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
182	17.00	16.90	22.8769	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
183	16.90	16.80	22.8731	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
184	16.80	16.70	22.8692	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
185	16.70	16.60	22.8654	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144

186	16.60	16.50	22.8615	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
187	16.50	16.40	22.8577	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
188	16.40	16.30	22.8538	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
189	16.30	16.20	22.8500	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
190	16.20	16.10	22.8461	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
191	16.10	16.00	22.8423	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
192	16.00	15.90	22.8384	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
193	15.90	15.80	22.8346	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
194	15.80	15.70	22.8308	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
195	15.70	15.60	22.8269	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
196	15.60	15.50	22.8231	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
197	15.50	15.40	22.8192	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
198	15.40	15.30	22.8154	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
199	15.30	15.20	22.8115	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
200	15.20	15.10	22.8077	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
201	15.10	15.00	22.8038	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
202	15.00	14.90	22.8000	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
203	14.90	14.80	22.7961	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
204	14.80	14.70	22.7923	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
205	14.70	14.60	22.7884	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
206	14.60	14.50	22.7846	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
207	14.50	14.40	22.7807	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
208	14.40	14.30	22.7769	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
209	14.30	14.20	22.7730	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
210	14.20	14.10	22.7692	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
211	14.10	14.00	22.7654	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
212	14.00	13.90	22.7615	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
213	13.90	13.80	25.0219	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
214	13.80	13.70	25.0169	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
215	13.70	13.60	25.0119	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
216	13.60	13.50	25.0069	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
217	13.50	13.40	25.0019	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
218	13.40	13.30	24.9969	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
219	13.30	13.20	24.9919	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
220	13.20	13.10	24.9869	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
221	13.10	13.00	24.9819	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
222	13.00	12.90	24.9769	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
223	12.90	12.80	24.9719	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
224	12.80	12.70	24.9669	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
225	12.70	12.60	24.9619	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
226	12.60	12.50	24.9569	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
227	12.50	12.40	24.9519	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
228	12.40	12.30	24.9469	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
229	12.30	12.20	24.9419	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
230	12.20	12.10	24.9369	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
231	12.10	12.00	24.9319	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
232	12.00	11.90	24.9269	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
233	11.90	11.80	24.9219	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
234	11.80	11.70	24.9169	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
235	11.70	11.60	24.9119	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091

236	11.60	11.50	24.9069	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
237	11.50	11.40	24.9019	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
238	11.40	11.30	24.8969	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
239	11.30	11.20	24.8919	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
240	11.20	11.10	24.8869	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
241	11.10	11.00	24.8819	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
242	11.00	10.90	24.8769	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
243	10.90	10.80	24.8719	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
244	10.80	10.70	24.8669	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
245	10.70	10.60	24.8619	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
246	10.60	10.50	24.8569	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
247	10.50	10.40	24.8519	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
248	10.40	10.30	24.8469	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
249	10.30	10.20	24.8419	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
250	10.20	10.10	24.8369	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
251	10.10	10.00	24.8319	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
252	10.00	9.90	24.8269	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
253	9.90	9.80	5.4832	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
254	9.80	9.70	5.4801	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
255	9.70	9.60	5.4769	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
256	9.60	9.50	5.4737	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
257	9.50	9.40	5.4705	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
258	9.40	9.30	5.4674	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
259	9.30	9.20	5.4642	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
260	9.20	9.10	5.4610	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
261	9.10	9.00	5.4578	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
262	9.00	8.90	5.4547	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
263	8.90	8.80	5.4515	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
264	8.80	8.70	5.4483	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
265	8.70	8.60	5.4451	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
266	8.60	8.50	5.4420	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
267	8.50	8.40	5.4388	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
268	8.40	8.30	5.4356	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
269	8.30	8.20	5.4324	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
270	8.20	8.10	5.4293	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
271	8.10	8.00	5.4261	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
272	8.00	7.90	5.4229	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
273	7.90	7.80	5.4197	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
274	7.80	7.70	5.4166	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
275	7.70	7.60	5.4134	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
276	7.60	7.50	5.4102	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
277	7.50	7.40	5.4070	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
278	7.40	7.30	5.4039	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
279	7.30	7.20	5.4007	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
280	7.20	7.10	5.3975	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
281	7.10	7.00	5.3943	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
282	7.00	6.90	5.3912	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
283	6.90	6.80	5.3880	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
284	6.80	6.70	5.3848	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
285	6.70	6.60	5.3816	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034

286	6.60	6.50	5.3785	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
287	6.50	6.40	5.3753	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
288	6.40	6.30	5.3721	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
289	6.30	6.20	5.3689	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
290	6.20	6.10	5.3658	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
291	6.10	6.00	5.3626	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
292	6.00	5.90	5.3594	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
293	5.90	5.80	5.3562	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
294	5.80	5.70	5.3531	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
295	5.70	5.60	5.3499	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
296	5.60	5.50	5.3467	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
297	5.50	5.40	5.3435	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
298	5.40	5.30	5.3404	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
299	5.30	5.20	5.3372	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
300	5.20	5.10	5.3340	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
301	5.10	5.00	5.3308	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
302	5.00	4.90	5.3277	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
303	4.90	4.80	5.3245	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
304	4.80	4.70	5.3213	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
305	4.70	4.60	5.3181	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
306	4.60	4.50	5.3150	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
307	4.50	4.40	5.3118	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
308	4.40	4.30	5.3086	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
309	4.30	4.20	5.3054	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
310	4.20	4.10	5.3023	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
311	4.10	4.00	5.2991	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
312	4.00	3.90	5.2959	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
313	3.90	3.80	5.2927	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
314	3.80	3.70	5.2896	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
315	3.70	3.60	5.2864	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
316	3.60	3.50	5.2797	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
317	3.50	3.40	5.2731	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
318	3.40	3.30	5.2664	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
319	3.30	3.20	5.2597	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
320	3.20	3.10	5.2531	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
321	3.10	3.00	5.2464	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
322	3.00	2.90	5.2397	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
323	2.90	2.80	5.2331	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
324	2.80	2.70	5.2264	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
325	2.70	2.60	5.2197	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
326	2.60	2.50	5.2131	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
327	2.50	2.40	5.2064	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
328	2.40	2.30	5.1997	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
329	2.30	2.20	5.1931	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
330	2.20	2.10	5.1864	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
331	2.10	2.00	5.1797	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
332	2.00	1.90	5.1731	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
333	1.90	1.80	5.1664	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
334	1.80	1.70	5.1597	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
335	1.70	1.60	5.1531	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026

336	1.60	1.50	5.1464	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
337	1.50	1.40	5.1397	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
338	1.40	1.30	5.1331	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
339	1.30	1.20	5.1264	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
340	1.20	1.10	5.1197	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
341	1.10	1.00	5.1131	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
342	1.00	0.90	5.1064	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
343	0.90	0.80	5.0997	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
344	0.80	0.70	5.0931	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
345	0.70	0.60	5.0864	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
526	0.60	0.50	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
527	0.50	0.40	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
528	0.40	0.30	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
529	0.30	0.20	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
530	0.20	0.10	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
531	0.10	0.00	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071

SPECIAL REPORT: Station 935

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	AREA	VOLUME AREA	PRISM	SURFACE VELO	X-SECT	TIDAL VELO	TIDAL	DISPRSN	MEAN
	km	km	m³/s	m/s	m	m	m²	m²	m³	m/s	m²/s	m/s			
346	18.00	17.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
347	17.90	17.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
348	17.80	17.70	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
349	17.70	17.60	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
350	17.60	17.50	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
351	17.50	17.40	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
352	17.40	17.30	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
353	17.30	17.20	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
354	17.20	17.10	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
355	17.10	17.00	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
356	17.00	16.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
357	16.90	16.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
358	16.80	16.70	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
359	16.70	16.60	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
360	16.60	16.50	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
361	16.50	16.40	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
362	16.40	16.30	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
363	16.30	16.20	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
364	16.20	16.10	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
365	16.10	16.00	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
366	16.00	15.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
367	15.90	15.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002		
368	15.80	15.70	0.2841	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
369	15.70	15.60	0.4550	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
370	15.60	15.50	0.6258	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
371	15.50	15.40	0.7966	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
372	15.40	15.30	0.9675	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
373	15.30	15.20	1.1383	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		
374	15.20	15.10	1.3092	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000		

375	15.10	15.00	1.4800	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
376	15.00	14.90	1.6509	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
377	14.90	14.80	1.8038	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
378	14.80	14.70	1.9567	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
379	14.70	14.60	2.1096	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
380	14.60	14.50	2.2625	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
381	14.50	14.40	2.4154	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
382	14.40	14.30	2.5683	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
383	14.30	14.20	2.7212	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
384	14.20	14.10	2.8741	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
385	14.10	14.00	3.0270	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
386	14.00	13.90	3.1799	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
387	13.90	13.80	3.3329	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
388	13.80	13.70	3.4858	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
389	13.70	13.60	3.6387	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
390	13.60	13.50	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
391	13.50	13.40	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
392	13.40	13.30	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
393	13.30	13.20	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
394	13.20	13.10	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
395	13.10	13.00	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
396	13.00	12.90	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
397	12.90	12.80	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
398	12.80	12.70	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
399	12.70	12.60	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
400	12.60	12.50	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
401	12.50	12.40	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
402	12.40	12.30	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
403	12.30	12.20	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
404	12.20	12.10	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
405	12.10	12.00	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
406	12.00	11.90	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
407	11.90	11.80	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
408	11.80	11.70	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
409	11.70	11.60	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
410	11.60	11.50	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
411	11.50	11.40	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
412	11.40	11.30	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
413	11.30	11.20	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
414	11.20	11.10	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
415	11.10	11.00	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
416	11.00	10.90	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
417	10.90	10.80	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
418	10.80	10.70	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
419	10.70	10.60	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
420	10.60	10.50	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
421	10.50	10.40	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
422	10.40	10.30	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
423	10.30	10.20	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
424	10.20	10.10	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036

425	10.10	10.00	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
426	10.00	9.90	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
427	9.90	9.80	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
428	9.80	9.70	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
429	9.70	9.60	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
430	9.60	9.50	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
431	9.50	9.40	6.6686	0.066	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.066
432	9.40	9.30	6.6686	0.066	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.066
433	9.30	9.20	3.4709	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
434	9.20	9.10	3.4730	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
435	9.10	9.00	3.4752	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
436	9.00	8.90	3.4773	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
437	8.90	8.80	3.4794	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
438	8.80	8.70	3.4815	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
439	8.70	8.60	3.4837	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
440	8.60	8.50	3.4858	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
441	8.50	8.40	3.4879	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
442	8.40	8.30	3.4900	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
443	8.30	8.20	3.4922	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
444	8.20	8.10	3.4943	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
445	8.10	8.00	3.4971	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
446	8.00	7.90	3.4999	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
447	7.90	7.80	3.5027	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
448	7.80	7.70	3.5055	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
449	7.70	7.60	3.5083	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
450	7.60	7.50	3.5110	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
451	7.50	7.40	3.5138	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
452	7.40	7.30	3.5166	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
453	7.30	7.20	3.5194	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
454	7.20	7.10	3.5222	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
455	7.10	7.00	3.5250	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
456	7.00	6.90	3.5278	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
457	6.90	6.80	3.5306	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
458	6.80	6.70	3.5334	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
459	6.70	6.60	3.5362	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
460	6.60	6.50	3.5390	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
461	6.50	6.40	3.5418	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
462	6.40	6.30	3.5446	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
463	6.30	6.20	3.5474	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
464	6.20	6.10	3.5502	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
465	6.10	6.00	3.5529	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
466	6.00	5.90	3.5557	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
467	5.90	5.80	3.5585	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
468	5.80	5.70	3.5613	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
469	5.70	5.60	3.5641	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
470	5.60	5.50	3.5669	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
471	5.50	5.40	3.5697	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
472	5.40	5.30	3.5725	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
473	5.30	5.20	3.5753	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
474	5.20	5.10	3.5781	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039

475	5.10	5.00	3.5809	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
476	5.00	4.90	3.5837	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
477	4.90	4.80	3.5865	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
478	4.80	4.70	3.5893	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
479	4.70	4.60	3.5920	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
480	4.60	4.50	3.5948	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
481	4.50	4.40	3.5976	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
482	4.40	4.30	3.6004	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
483	4.30	4.20	3.6032	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
484	4.20	4.10	3.6060	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
485	4.10	4.00	3.6088	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
486	4.00	3.90	3.6116	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
487	3.90	3.80	3.6144	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
488	3.80	3.70	3.6172	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
489	3.70	3.60	3.6200	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
490	3.60	3.50	3.6228	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
491	3.50	3.40	3.6256	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
492	3.40	3.30	3.6284	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
493	3.30	3.20	3.6311	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
494	3.20	3.10	3.6339	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
495	3.10	3.00	3.6367	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
496	3.00	2.90	3.6395	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
497	2.90	2.80	3.6423	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
498	2.80	2.70	3.6451	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
499	2.70	2.60	3.6479	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
500	2.60	2.50	3.6507	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
501	2.50	2.40	3.6535	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
502	2.40	2.30	3.6563	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
503	2.30	2.20	3.6591	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
504	2.20	2.10	3.6619	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
505	2.10	2.00	3.6647	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
506	2.00	1.90	3.6675	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
507	1.90	1.80	3.6703	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
508	1.80	1.70	3.6730	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
509	1.70	1.60	3.6758	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
510	1.60	1.50	3.6786	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
511	1.50	1.40	3.6814	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
512	1.40	1.30	3.6842	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
513	1.30	1.20	3.6870	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
514	1.20	1.10	3.6898	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
515	1.10	1.00	3.6926	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
516	1.00	0.90	3.6954	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
517	0.90	0.80	3.6982	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
518	0.80	0.70	3.7014	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
519	0.70	0.60	3.7046	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
520	0.60	0.50	3.7077	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
521	0.50	0.40	3.7109	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
522	0.40	0.30	3.7141	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
523	0.30	0.20	3.7173	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
524	0.20	0.10	3.7205	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041

525 0.10 0.00 3.7237 0.041 1.40 65.0 9113. 6500.0 91.1 0. 0.000 0.100 0.041
FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 1 Bayou Chene to Blackbird Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode
********** 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	CHL A #/100mL	COLI	NCM
1	HDWTR	30.66731	31.50	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	0.00	70.00	0.00	0.00
EACH	INCR	0.01515	31.13	0.00	0.00	0.00	5.00	50.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.02121																

********** 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	35.10	35.00	30.66125	0.0	0.22712	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
2	35.00	34.90	30.65519	0.0	0.22708	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
3	34.90	34.80	30.64913	0.0	0.22703	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
4	34.80	34.70	30.64307	0.0	0.22699	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
5	34.70	34.60	30.63701	0.0	0.22694	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
6	34.60	34.50	30.63095	0.0	0.22690	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
7	34.50	34.40	30.62489	0.0	0.22685	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
8	34.40	34.30	30.61883	0.0	0.22681	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
9	34.30	34.20	30.61277	0.0	0.22676	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
10	34.20	34.10	30.60671	0.0	0.22672	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
11	34.10	34.00	30.60065	0.0	0.22667	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
12	34.00	33.90	30.59459	0.0	0.22663	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
13	33.90	33.80	30.58854	0.0	0.22658	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
14	33.80	33.70	30.58248	0.0	0.22654	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
15	33.70	33.60	30.57642	0.0	0.22649	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
16	33.60	33.50	30.57036	0.0	0.22645	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
17	33.50	33.40	30.56430	0.0	0.22640	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
18	33.40	33.30	30.55824	0.0	0.22636	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
19	33.30	33.20	30.55218	0.0	0.22631	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
20	33.20	33.10	30.54612	0.0	0.22627	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
21	33.10	33.00	30.54006	0.0	0.22622	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
22	33.00	32.90	30.53400	0.0	0.22618	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
23	32.90	32.80	30.52794	0.0	0.22613	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
24	32.80	32.70	30.52188	0.0	0.22609	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
25	32.70	32.60	30.51582	0.0	0.22604	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
26	32.60	32.50	30.50976	0.0	0.22600	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
27	32.50	32.40	30.50370	0.0	0.22595	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
28	32.40	32.30	30.49764	0.0	0.22591	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
29	32.30	32.20	30.49158	0.0	0.22586	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
30	32.20	32.10	30.48552	0.0	0.22582	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
31	32.10	32.00	30.47946	0.0	0.22577	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
32	32.00	31.90	30.47340	0.0	0.22573	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
33	31.90	31.80	30.46734	0.0	0.22568	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
TOT						0.17			445500.00	445500.00					
AVG					0.2264		1.00	135.00			135.00				
CUM						0.17									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 DECAY *	BKGD SOD 1/da	SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT *	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	35.000	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00			
2	34.900	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00			
3	34.800	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00			
4	34.700	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00			
5	34.600	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00			
6	34.500	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00			
7	34.400	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00			
8	34.300	7.39	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00			
9	34.200	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00			
10	34.100	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00			
11	34.000	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00			
12	33.900	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00			
13	33.800	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00			
14	33.700	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00			
15	33.600	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00			
16	33.500	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00			
17	33.400	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00			
18	33.300	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00			
19	33.200	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00			
20	33.100	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00			
21	33.000	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00			
22	32.900	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00			
23	32.800	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00			
24	32.700	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00			
25	32.600	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00			
26	32.500	7.35	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00			
27	32.400	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00			
28	32.300	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00			
29	32.200	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00			
30	32.100	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00			
31	32.000	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00			
32	31.900	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00			
33	31.800	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00			
AVG 20 DEG C RATE			1.87	0.12	0.00	0.00	0.00	0.00	0.00	2.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00			

* $g/m^2/d$ ** 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 #/100mL	MACRO	COLI	NCM
1	35.000	31.22	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.15	0.00	0.	0.00
2	34.900	31.24	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.30	0.00	0.	0.00
3	34.800	31.25	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.25	0.00	70.45	0.00	0.	0.00
4	34.700	31.27	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.61	0.00	0.	0.00
5	34.600	31.29	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.76	0.00	0.	0.00
6	34.500	31.31	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.91	0.00	0.	0.00
7	34.400	31.33	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	71.06	0.00	0.	0.00
8	34.300	31.35	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.21	0.00	0.	0.00
9	34.200	31.36	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.36	0.00	0.	0.00

10	34.100	31.38	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.52	0.00	0.	0.00
11	34.000	31.40	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.67	0.00	0.	0.00
12	33.900	31.42	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.82	0.00	0.	0.00
13	33.800	31.44	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	71.97	0.00	0.	0.00
14	33.700	31.45	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.12	0.00	0.	0.00
15	33.600	31.47	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.54	2.23	0.00	72.27	0.00	0.	0.00
16	33.500	31.49	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.42	0.00	0.	0.00
17	33.400	31.51	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.58	0.00	0.	0.00
18	33.300	31.53	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.73	0.00	0.	0.00
19	33.200	31.55	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	72.88	0.00	0.	0.00
20	33.100	31.56	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.03	0.00	0.	0.00
21	33.000	31.58	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.18	0.00	0.	0.00
22	32.900	31.60	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.33	0.00	0.	0.00
23	32.800	31.62	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.48	0.00	0.	0.00
24	32.700	31.64	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.64	0.00	0.	0.00
25	32.600	31.65	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.79	0.00	0.	0.00
26	32.500	31.67	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.94	0.00	0.	0.00
27	32.400	31.69	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	74.09	0.00	0.	0.00
28	32.300	31.71	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.21	0.00	74.24	0.00	0.	0.00
29	32.200	31.73	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.39	0.00	0.	0.00
30	32.100	31.75	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.55	0.00	0.	0.00
31	32.000	31.76	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.70	0.00	0.	0.00
32	31.900	31.78	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.85	0.00	0.	0.00
33	31.800	31.80	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	75.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 2 Blackbird Bayou to 120401-G Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
34	UPR RCH	30.46734	31.80	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	0.00	75.00	0.00	0.00
EACH	INCR	0.03937	31.13	0.00	0.00	0.00	5.00	50.00	0.00		3.10	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.04094																

********** 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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
34	31.80	31.70	30.46577	0.0	0.27696	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
35	31.70	31.60	30.46419	0.0	0.27695	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
36	31.60	31.50	30.46262	0.0	0.27693	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
37	31.50	31.40	30.46104	0.0	0.27692	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
38	31.40	31.30	30.45947	0.0	0.27690	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
39	31.30	31.20	30.45789	0.0	0.27689	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
40	31.20	31.10	30.45631	0.0	0.27688	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
41	31.10	31.00	30.45474	0.0	0.27686	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
42	31.00	30.90	30.45316	0.0	0.27685	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
43	30.90	30.80	30.45159	0.0	0.27683	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
44	30.80	30.70	30.45001	0.0	0.27682	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
45	30.70	30.60	30.44844	0.0	0.27680	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
46	30.60	30.50	30.44686	0.0	0.27679	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
47	30.50	30.40	30.44529	0.0	0.27678	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277

48	30.40	30.30	30.44371	0.0	0.27676	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
49	30.30	30.20	30.44213	0.0	0.27675	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
50	30.20	30.10	30.44056	0.0	0.27673	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
51	30.10	30.00	30.43898	0.0	0.27672	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
52	30.00	29.90	30.43741	0.0	0.27670	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
53	29.90	29.80	30.43583	0.0	0.27669	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
54	29.80	29.70	30.43426	0.0	0.27668	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
55	29.70	29.60	30.43268	0.0	0.27666	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
56	29.60	29.50	30.43111	0.0	0.27665	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
57	29.50	29.40	30.42953	0.0	0.27663	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
58	29.40	29.30	30.42796	0.0	0.27662	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
59	29.30	29.20	30.42638	0.0	0.27660	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
60	29.20	29.10	30.42480	0.0	0.27659	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
61	29.10	29.00	30.42323	0.0	0.27657	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
62	29.00	28.90	30.42165	0.0	0.27656	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
63	28.90	28.80	30.42008	0.0	0.27655	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
64	28.80	28.70	30.41850	0.0	0.27653	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
65	28.70	28.60	30.41693	0.0	0.27652	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
66	28.60	28.50	30.41535	0.0	0.27650	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
67	28.50	28.40	30.41378	0.0	0.27649	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
68	28.40	28.30	30.41220	0.0	0.27647	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
69	28.30	28.20	30.41063	0.0	0.27646	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
70	28.20	28.10	30.40905	0.0	0.27645	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
71	28.10	28.00	30.40747	0.0	0.27643	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
72	28.00	27.90	30.40590	0.0	0.27642	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
73	27.90	27.80	30.40432	0.0	0.27640	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
74	27.80	27.70	30.40275	0.0	0.27639	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
75	27.70	27.60	30.40117	0.0	0.27637	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
76	27.60	27.50	30.39960	0.0	0.27636	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
77	27.50	27.40	30.39802	0.0	0.27635	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
78	27.40	27.30	30.39645	0.0	0.27633	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
79	27.30	27.20	30.39487	0.0	0.27632	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
80	27.20	27.10	30.39330	0.0	0.27630	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
81	27.10	27.00	30.39172	0.0	0.27629	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
82	27.00	26.90	30.39014	0.0	0.27627	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
83	26.90	26.80	30.38857	0.0	0.27626	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
84	26.80	26.70	30.38699	0.0	0.27625	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
85	26.70	26.60	30.38542	0.0	0.27623	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
86	26.60	26.50	30.38384	0.0	0.27622	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
87	26.50	26.40	30.38227	0.0	0.27620	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
88	26.40	26.30	30.38069	0.0	0.27619	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
89	26.30	26.20	30.37912	0.0	0.27617	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
90	26.20	26.10	30.37754	0.0	0.27616	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
91	26.10	26.00	30.37597	0.0	0.27615	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
92	26.00	25.90	30.37439	0.0	0.27613	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
93	25.90	25.80	30.37281	0.0	0.27612	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
94	25.80	25.70	30.37124	0.0	0.27610	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
95	25.70	25.60	30.36966	0.0	0.27609	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
96	25.60	25.50	30.36809	0.0	0.27607	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
97	25.50	25.40	30.36651	0.0	0.27606	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276

98	25.40	25.30	30.36494	0.0	0.27604	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
99	25.30	25.20	30.36336	0.0	0.27603	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
100	25.20	25.10	30.36179	0.0	0.27602	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
101	25.10	25.00	30.36021	0.0	0.27600	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
102	25.00	24.90	30.35863	0.0	0.27599	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
103	24.90	24.80	30.35706	0.0	0.27597	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
104	24.80	24.70	30.35548	0.0	0.27596	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
105	24.70	24.60	30.35391	0.0	0.27594	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
106	24.60	24.50	30.35233	0.0	0.27593	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
107	24.50	24.40	30.35076	0.0	0.27592	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
108	24.40	24.30	30.34918	0.0	0.27590	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
109	24.30	24.20	30.34761	0.0	0.27589	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
110	24.20	24.10	30.34603	0.0	0.27587	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
111	24.10	24.00	30.34446	0.0	0.27586	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
112	24.00	23.90	30.34288	0.0	0.27584	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
113	23.90	23.80	30.34130	0.0	0.27583	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
114	23.80	23.70	30.33973	0.0	0.27582	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
115	23.70	23.60	30.33815	0.0	0.27580	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
116	23.60	23.50	30.33658	0.0	0.27579	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
117	23.50	23.40	30.33500	0.0	0.27577	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
118	23.40	23.30	30.33343	0.0	0.27576	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
119	23.30	23.20	30.33185	0.0	0.27574	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
120	23.20	23.10	30.33028	0.0	0.27573	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
121	23.10	23.00	30.32870	0.0	0.27572	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
122	23.00	22.90	30.32713	0.0	0.27570	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
123	22.90	22.80	30.32555	0.0	0.27569	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
124	22.80	22.70	30.32397	0.0	0.27567	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
125	22.70	22.60	30.32240	0.0	0.27566	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
126	22.60	22.50	30.32082	0.0	0.27564	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
127	22.50	22.40	30.31925	0.0	0.27563	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
128	22.40	22.30	30.31767	0.0	0.27562	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
129	22.30	22.20	30.31610	0.0	0.27560	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
130	22.20	22.10	30.31452	0.0	0.27559	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
131	22.10	22.00	30.31295	0.0	0.27557	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
132	22.00	21.90	30.31137	0.0	0.27556	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
133	21.90	21.80	30.30980	0.0	0.27554	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
134	21.80	21.70	30.30822	0.0	0.27553	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
135	21.70	21.60	30.30664	0.0	0.27551	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
136	21.60	21.50	30.30507	0.0	0.27550	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
137	21.50	21.40	30.30349	0.0	0.27549	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
138	21.40	21.30	30.30192	0.0	0.27547	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
139	21.30	21.20	30.30034	0.0	0.27546	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
140	21.20	21.10	30.29877	0.0	0.27544	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
141	21.10	21.00	30.29719	0.0	0.27543	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
142	21.00	20.90	30.29562	0.0	0.27541	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
143	20.90	20.80	30.29404	0.0	0.27540	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
144	20.80	20.70	30.29247	0.0	0.27539	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
145	20.70	20.60	30.29089	0.0	0.27537	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
146	20.60	20.50	30.28931	0.0	0.27536	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
147	20.50	20.40	30.28774	0.0	0.27534	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275

148	20.40	20.30	30.28616	0.0	0.27533	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
149	20.30	20.20	30.28459	0.0	0.27531	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
150	20.20	20.10	30.28301	0.0	0.27530	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
151	20.10	20.00	30.28144	0.0	0.27529	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
152	20.00	19.90	30.27986	0.0	0.27527	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
153	19.90	19.80	30.27829	0.0	0.27526	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
154	19.80	19.70	30.27671	0.0	0.27524	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
155	19.70	19.60	30.27514	0.0	0.27523	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
156	19.60	19.50	30.27356	0.0	0.27521	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
157	19.50	19.40	30.27198	0.0	0.27520	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
158	19.40	19.30	30.27041	0.0	0.27519	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
159	19.30	19.20	30.26883	0.0	0.27517	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
160	19.20	19.10	30.26726	0.0	0.27516	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275		
TOT					0.53			1397000.00	1397000.00								
AVG				0.2761			1.00	110.00		110.00							
CUM					0.70												

********** 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
34	31.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
35	31.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
36	31.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
37	31.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
38	31.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
39	31.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
40	31.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
41	31.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
42	30.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
43	30.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
44	30.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
45	30.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
46	30.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
47	30.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
48	30.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
49	30.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
50	30.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
51	30.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
52	29.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
53	29.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
54	29.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
55	29.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
56	29.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
57	29.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
58	29.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
59	29.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
60	29.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
61	29.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
62	28.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	
63	28.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	

64	28.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
65	28.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
66	28.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
77	27.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
79	27.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00

114	23.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
116	23.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
127	22.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
129	22.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.07	0.12	0.00	0.00	0.00	0.00	0.00	2.70			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
34	31.700	31.80	0.00	0.00	0.00	6.22	16.11	0.00	16.11	0.00	1.59	0.10	0.50	2.20	0.00	75.04	0.00	0.	0.00
35	31.600	31.80	0.00	0.00	0.00	6.22	16.14	0.00	16.14	0.00	1.59	0.10	0.50	2.20	0.00	75.08	0.00	0.	0.00
36	31.500	31.80	0.00	0.00	0.00	6.22	16.17	0.00	16.17	0.00	1.59	0.10	0.50	2.20	0.00	75.12	0.00	0.	0.00
37	31.400	31.80	0.00	0.00	0.00	6.22	16.20	0.00	16.20	0.00	1.60	0.10	0.50	2.20	0.00	75.16	0.00	0.	0.00
38	31.300	31.80	0.00	0.00	0.00	6.22	16.23	0.00	16.23	0.00	1.60	0.10	0.50	2.20	0.00	75.20	0.00	0.	0.00
39	31.200	31.80	0.00	0.00	0.00	6.21	16.26	0.00	16.26	0.00	1.60	0.10	0.50	2.20	0.00	75.24	0.00	0.	0.00
40	31.100	31.80	0.00	0.00	0.00	6.21	16.29	0.00	16.29	0.00	1.60	0.10	0.49	2.20	0.00	75.28	0.00	0.	0.00
41	31.000	31.80	0.00	0.00	0.00	6.21	16.32	0.00	16.32	0.00	1.60	0.10	0.49	2.20	0.00	75.31	0.00	0.	0.00
42	30.900	31.80	0.00	0.00	0.00	6.21	16.35	0.00	16.35	0.00	1.60	0.10	0.49	2.20	0.00	75.35	0.00	0.	0.00
43	30.800	31.80	0.00	0.00	0.00	6.21	16.38	0.00	16.38	0.00	1.61	0.10	0.49	2.20	0.00	75.39	0.00	0.	0.00
44	30.700	31.80	0.00	0.00	0.00	6.21	16.41	0.00	16.41	0.00	1.61	0.10	0.49	2.20	0.00	75.43	0.00	0.	0.00
45	30.600	31.80	0.00	0.00	0.00	6.21	16.44	0.00	16.44	0.00	1.61	0.10	0.48	2.20	0.00	75.47	0.00	0.	0.00
46	30.500	31.80	0.00	0.00	0.00	6.21	16.47	0.00	16.47	0.00	1.61	0.10	0.48	2.20	0.00	75.51	0.00	0.	0.00
47	30.400	31.80	0.00	0.00	0.00	6.21	16.50	0.00	16.50	0.00	1.61	0.10	0.48	2.20	0.00	75.55	0.00	0.	0.00
48	30.300	31.80	0.00	0.00	0.00	6.21	16.52	0.00	16.52	0.00	1.61	0.10	0.48	2.20	0.00	75.59	0.00	0.	0.00
49	30.200	31.80	0.00	0.00	0.00	6.20	16.55	0.00	16.55	0.00	1.62	0.10	0.48	2.20	0.00	75.63	0.00	0.	0.00
50	30.100	31.80	0.00	0.00	0.00	6.20	16.58	0.00	16.58	0.00	1.62	0.10	0.48	2.20	0.00	75.67	0.00	0.	0.00
51	30.000	31.80	0.00	0.00	0.00	6.20	16.61	0.00	16.61	0.00	1.62	0.10	0.47	2.20	0.00	75.71	0.00	0.	0.00
52	29.900	31.80	0.00	0.00	0.00	6.20	16.64	0.00	16.64	0.00	1.62	0.10	0.47	2.20	0.00	75.75	0.00	0.	0.00
53	29.800	31.80	0.00	0.00	0.00	6.20	16.67	0.00	16.67	0.00	1.62	0.10	0.47	2.20	0.00	75.79	0.00	0.	0.00
54	29.700	31.80	0.00	0.00	0.00	6.20	16.70	0.00	16.70	0.00	1.63	0.10	0.47	2.20	0.00	75.83	0.00	0.	0.00
55	29.600	31.80	0.00	0.00	0.00	6.20	16.73	0.00	16.73	0.00	1.63	0.10	0.47	2.20	0.00	75.87	0.00	0.	0.00
56	29.500	31.80	0.00	0.00	0.00	6.20	16.75	0.00	16.75	0.00	1.63	0.10	0.47	2.20	0.00	75.91	0.00	0.	0.00
57	29.400	31.80	0.00	0.00	0.00	6.20	16.78	0.00	16.78	0.00	1.63	0.10	0.46	2.20	0.00	75.94	0.00	0.	0.00
58	29.300	31.80	0.00	0.00	0.00	6.20	16.81	0.00	16.81	0.00	1.63	0.10	0.46	2.20	0.00	75.98	0.00	0.	0.00
59	29.200	31.80	0.00	0.00	0.00	6.19	16.84	0.00	16.84	0.00	1.63	0.10	0.46	2.20	0.00	76.02	0.00	0.	0.00
60	29.100	31.80	0.00	0.00	0.00	6.19	16.87	0.00	16.87	0.00	1.64	0.10	0.46	2.20	0.00	76.06	0.00	0.	0.00
61	29.000	31.80	0.00	0.00	0.00	6.19	16.90	0.00	16.90	0.00	1.64	0.10	0.46	2.19	0.00	76.10	0.00	0.	0.00
62	28.900	31.80	0.00	0.00	0.00	6.19	16.92	0.00	16.92	0.00	1.64	0.10	0.45	2.19	0.00	76.14	0.00	0.	0.00
63	28.800	31.80	0.00	0.00	0.00	6.19	16.95	0.00	16.95	0.00	1.64	0.10	0.45	2.19	0.00	76.18	0.00	0.	0.00
64	28.700	31.80	0.00	0.00	0.00	6.19	16.98	0.00	16.98	0.00	1.64	0.10	0.45	2.19	0.00	76.22	0.00	0.	0.00
65	28.600	31.80	0.00	0.00	0.00	6.19	17.01	0.00	17.01	0.00	1.64	0.10	0.45	2.19	0.00	76.26	0.00	0.	0.00
66	28.500	31.80	0.00	0.00	0.00	6.19	17.04	0.00	17.04	0.00	1.65	0.10	0.45	2.19	0.00	76.30	0.00	0.	0.00
67	28.400	31.80	0.00	0.00	0.00	6.19	17.06	0.00	17.06	0.00	1.65	0.10	0.45	2.19	0.00	76.34	0.00	0.	0.00
68	28.300	31.80	0.00	0.00	0.00	6.19	17.09	0.00	17.09	0.00	1.65	0.10	0.44	2.19	0.00	76.38	0.00	0.	0.00
69	28.200	31.80	0.00	0.00	0.00	6.18	17.12	0.00	17.12	0.00	1.65	0.10	0.44	2.19	0.00	76.42	0.00	0.	0.00
70	28.100	31.80	0.00	0.00	0.00	6.18	17.15	0.00	17.15	0.00	1.65	0.10	0.44	2.19	0.00	76.46	0.00	0.	0.00
71	28.000	31.80	0.00	0.00	0.00	6.18	17.18	0.00	17.18	0.00	1.65	0.10	0.44	2.19	0.00	76.50	0.00	0.	0.00
72	27.900	31.80	0.00	0.00	0.00	6.18	17.20	0.00	17.20	0.00	1.66	0.10	0.44	2.19	0.00	76.54	0.00	0.	0.00
73	27.800	31.80	0.00	0.00	0.00	6.18	17.23	0.00	17.23	0.00	1.66	0.10	0.44	2.19	0.00	76.57	0.00	0.	0.00
74	27.700	31.80	0.00	0.00	0.00	6.18	17.26	0.00	17.26	0.00	1.66	0.10	0.43	2.19	0.00	76.61	0.00	0.	0.00
75	27.600	31.80	0.00	0.00	0.00	6.18	17.29	0.00	17.29	0.00	1.66	0.10	0.43	2.19	0.00	76.65	0.00	0.	0.00
76	27.500	31.80	0.00	0.00	0.00	6.18	17.31	0.00	17.31	0.00	1.66	0.10	0.43	2.19	0.00	76.69	0.00	0.	0.00
77	27.400	31.80	0.00	0.00	0.00	6.18	17.34	0.00	17.34	0.00	1.66	0.10	0.43	2.19	0.00	76.73	0.00	0.	0.00
78	27.300	31.80	0.00	0.00	0.00	6.18	17.37	0.00	17.37	0.00	1.67	0.10	0.43	2.19	0.00	76.77	0.00	0.	0.00
79	27.200	31.80	0.00	0.00	0.00	6.18	17.40	0.00	17.40	0.00	1.67	0.10	0.43	2.19	0.00	76.81	0.00	0.	0.00
80	27.100	31.80	0.00	0.00	0.00	6.17	17.42	0.00	17.42	0.00	1.67	0.10	0.42	2.19	0.00	76.85	0.00	0.	0.00
81	27.000	31.80	0.00	0.00	0.00	6.17	17.45	0.00	17.45	0.00	1.67	0.10	0.42	2.19	0.00	76.89	0.00	0.	0.00

82	26.900	31.80	0.00	0.00	0.00	6.17	17.48	0.00	17.48	0.00	1.67	0.10	0.42	2.19	0.00	76.93	0.00	0.	0.00
83	26.800	31.80	0.00	0.00	0.00	6.17	17.50	0.00	17.50	0.00	1.67	0.10	0.42	2.19	0.00	76.97	0.00	0.	0.00
84	26.700	31.80	0.00	0.00	0.00	6.17	17.53	0.00	17.53	0.00	1.68	0.10	0.42	2.19	0.00	77.01	0.00	0.	0.00
85	26.600	31.80	0.00	0.00	0.00	6.17	17.56	0.00	17.56	0.00	1.68	0.10	0.41	2.19	0.00	77.05	0.00	0.	0.00
86	26.500	31.80	0.00	0.00	0.00	6.17	17.58	0.00	17.58	0.00	1.68	0.10	0.41	2.19	0.00	77.09	0.00	0.	0.00
87	26.400	31.80	0.00	0.00	0.00	6.17	17.61	0.00	17.61	0.00	1.68	0.10	0.41	2.19	0.00	77.13	0.00	0.	0.00
88	26.300	31.80	0.00	0.00	0.00	6.17	17.64	0.00	17.64	0.00	1.68	0.10	0.41	2.19	0.00	77.17	0.00	0.	0.00
89	26.200	31.80	0.00	0.00	0.00	6.17	17.66	0.00	17.66	0.00	1.68	0.10	0.41	2.19	0.00	77.20	0.00	0.	0.00
90	26.100	31.80	0.00	0.00	0.00	6.16	17.69	0.00	17.69	0.00	1.69	0.10	0.41	2.19	0.00	77.24	0.00	0.	0.00
91	26.000	31.80	0.00	0.00	0.00	6.16	17.72	0.00	17.72	0.00	1.69	0.10	0.40	2.19	0.00	77.28	0.00	0.	0.00
92	25.900	31.80	0.00	0.00	0.00	6.16	17.74	0.00	17.74	0.00	1.69	0.10	0.40	2.19	0.00	77.32	0.00	0.	0.00
93	25.800	31.80	0.00	0.00	0.00	6.16	17.77	0.00	17.77	0.00	1.69	0.10	0.40	2.19	0.00	77.36	0.00	0.	0.00
94	25.700	31.80	0.00	0.00	0.00	6.16	17.80	0.00	17.80	0.00	1.69	0.10	0.40	2.19	0.00	77.40	0.00	0.	0.00
95	25.600	31.80	0.00	0.00	0.00	6.16	17.82	0.00	17.82	0.00	1.69	0.10	0.40	2.19	0.00	77.44	0.00	0.	0.00
96	25.500	31.80	0.00	0.00	0.00	6.16	17.85	0.00	17.85	0.00	1.70	0.10	0.40	2.19	0.00	77.48	0.00	0.	0.00
97	25.400	31.80	0.00	0.00	0.00	6.16	17.88	0.00	17.88	0.00	1.70	0.10	0.39	2.19	0.00	77.52	0.00	0.	0.00
98	25.300	31.80	0.00	0.00	0.00	6.16	17.90	0.00	17.90	0.00	1.70	0.10	0.39	2.19	0.00	77.56	0.00	0.	0.00
99	25.200	31.80	0.00	0.00	0.00	6.16	17.93	0.00	17.93	0.00	1.70	0.10	0.39	2.19	0.00	77.60	0.00	0.	0.00
100	25.100	31.80	0.00	0.00	0.00	6.16	17.95	0.00	17.95	0.00	1.70	0.10	0.39	2.19	0.00	77.64	0.00	0.	0.00
101	25.000	31.80	0.00	0.00	0.00	6.15	17.98	0.00	17.98	0.00	1.70	0.10	0.39	2.19	0.00	77.68	0.00	0.	0.00
102	24.900	31.80	0.00	0.00	0.00	6.15	18.01	0.00	18.01	0.00	1.71	0.10	0.39	2.19	0.00	77.72	0.00	0.	0.00
103	24.800	31.80	0.00	0.00	0.00	6.15	18.03	0.00	18.03	0.00	1.71	0.10	0.38	2.19	0.00	77.76	0.00	0.	0.00
104	24.700	31.80	0.00	0.00	0.00	6.15	18.06	0.00	18.06	0.00	1.71	0.10	0.38	2.19	0.00	77.80	0.00	0.	0.00
105	24.600	31.80	0.00	0.00	0.00	6.15	18.08	0.00	18.08	0.00	1.71	0.10	0.38	2.19	0.00	77.83	0.00	0.	0.00
106	24.500	31.80	0.00	0.00	0.00	6.15	18.11	0.00	18.11	0.00	1.71	0.10	0.38	2.19	0.00	77.87	0.00	0.	0.00
107	24.400	31.80	0.00	0.00	0.00	6.15	18.13	0.00	18.13	0.00	1.71	0.10	0.38	2.19	0.00	77.91	0.00	0.	0.00
108	24.300	31.80	0.00	0.00	0.00	6.15	18.16	0.00	18.16	0.00	1.72	0.10	0.38	2.19	0.00	77.95	0.00	0.	0.00
109	24.200	31.80	0.00	0.00	0.00	6.15	18.18	0.00	18.18	0.00	1.72	0.10	0.37	2.19	0.00	77.99	0.00	0.	0.00
110	24.100	31.80	0.00	0.00	0.00	6.15	18.21	0.00	18.21	0.00	1.72	0.10	0.37	2.19	0.00	78.03	0.00	0.	0.00
111	24.000	31.80	0.00	0.00	0.00	6.15	18.24	0.00	18.24	0.00	1.72	0.10	0.37	2.19	0.00	78.07	0.00	0.	0.00
112	23.900	31.80	0.00	0.00	0.00	6.14	18.26	0.00	18.26	0.00	1.72	0.10	0.37	2.19	0.00	78.11	0.00	0.	0.00
113	23.800	31.80	0.00	0.00	0.00	6.14	18.29	0.00	18.29	0.00	1.72	0.10	0.37	2.19	0.00	78.15	0.00	0.	0.00
114	23.700	31.80	0.00	0.00	0.00	6.14	18.31	0.00	18.31	0.00	1.73	0.10	0.37	2.19	0.00	78.19	0.00	0.	0.00
115	23.600	31.80	0.00	0.00	0.00	6.14	18.34	0.00	18.34	0.00	1.73	0.10	0.36	2.19	0.00	78.23	0.00	0.	0.00
116	23.500	31.80	0.00	0.00	0.00	6.14	18.36	0.00	18.36	0.00	1.73	0.10	0.36	2.19	0.00	78.27	0.00	0.	0.00
117	23.400	31.80	0.00	0.00	0.00	6.14	18.39	0.00	18.39	0.00	1.73	0.10	0.36	2.19	0.00	78.31	0.00	0.	0.00
118	23.300	31.80	0.00	0.00	0.00	6.14	18.41	0.00	18.41	0.00	1.73	0.10	0.36	2.19	0.00	78.35	0.00	0.	0.00
119	23.200	31.80	0.00	0.00	0.00	6.14	18.44	0.00	18.44	0.00	1.73	0.10	0.36	2.19	0.00	78.39	0.00	0.	0.00
120	23.100	31.80	0.00	0.00	0.00	6.14	18.46	0.00	18.46	0.00	1.73	0.10	0.36	2.19	0.00	78.43	0.00	0.	0.00
121	23.000	31.80	0.00	0.00	0.00	6.14	18.49	0.00	18.49	0.00	1.74	0.10	0.35	2.19	0.00	78.46	0.00	0.	0.00
122	22.900	31.80	0.00	0.00	0.00	6.14	18.51	0.00	18.51	0.00	1.74	0.10	0.35	2.19	0.00	78.50	0.00	0.	0.00
123	22.800	31.80	0.00	0.00	0.00	6.14	18.54	0.00	18.54	0.00	1.74	0.10	0.35	2.19	0.00	78.54	0.00	0.	0.00
124	22.700	31.80	0.00	0.00	0.00	6.13	18.56	0.00	18.56	0.00	1.74	0.10	0.35	2.19	0.00	78.58	0.00	0.	0.00
125	22.600	31.80	0.00	0.00	0.00	6.13	18.59	0.00	18.59	0.00	1.74	0.10	0.35	2.19	0.00	78.62	0.00	0.	0.00
126	22.500	31.80	0.00	0.00	0.00	6.13	18.61	0.00	18.61	0.00	1.74	0.10	0.35	2.19	0.00	78.66	0.00	0.	0.00
127	22.400	31.80	0.00	0.00	0.00	6.13	18.64	0.00	18.64	0.00	1.75	0.10	0.34	2.19	0.00	78.70	0.00	0.	0.00
128	22.300	31.80	0.00	0.00	0.00	6.13	18.66	0.00	18.66	0.00	1.75	0.10	0.34	2.19	0.00	78.74	0.00	0.	0.00
129	22.200	31.80	0.00	0.00	0.00	6.13	18.68	0.00	18.68	0.00	1.75	0.10	0.34	2.19	0.00	78.78	0.00	0.	0.00
130	22.100	31.80	0.00	0.00	0.00	6.13	18.71	0.00	18.71	0.00	1.75	0.10	0.34	2.19	0.00	78.82	0.00	0.	0.00
131	22.000	31.80	0.00	0.00	0.00	6.13	18.73	0.00	18.73	0.00	1.75	0.10	0.34	2.19	0.00	78.86	0.00	0.	0.00

132	21.900	31.80	0.00	0.00	0.00	6.13	18.76	0.00	18.76	0.00	1.75	0.10	0.34	2.19	0.00	78.90	0.00	0.	0.00
133	21.800	31.80	0.00	0.00	0.00	6.13	18.78	0.00	18.78	0.00	1.76	0.10	0.33	2.19	0.00	78.94	0.00	0.	0.00
134	21.700	31.80	0.00	0.00	0.00	6.13	18.81	0.00	18.81	0.00	1.76	0.10	0.33	2.19	0.00	78.98	0.00	0.	0.00
135	21.600	31.80	0.00	0.00	0.00	6.13	18.83	0.00	18.83	0.00	1.76	0.10	0.33	2.19	0.00	79.02	0.00	0.	0.00
136	21.500	31.80	0.00	0.00	0.00	6.12	18.85	0.00	18.85	0.00	1.76	0.10	0.33	2.19	0.00	79.06	0.00	0.	0.00
137	21.400	31.80	0.00	0.00	0.00	6.12	18.88	0.00	18.88	0.00	1.76	0.10	0.33	2.19	0.00	79.09	0.00	0.	0.00
138	21.300	31.80	0.00	0.00	0.00	6.12	18.90	0.00	18.90	0.00	1.76	0.10	0.33	2.19	0.00	79.13	0.00	0.	0.00
139	21.200	31.80	0.00	0.00	0.00	6.12	18.93	0.00	18.93	0.00	1.76	0.10	0.32	2.19	0.00	79.17	0.00	0.	0.00
140	21.100	31.80	0.00	0.00	0.00	6.12	18.95	0.00	18.95	0.00	1.77	0.10	0.32	2.19	0.00	79.21	0.00	0.	0.00
141	21.000	31.80	0.00	0.00	0.00	6.12	18.97	0.00	18.97	0.00	1.77	0.10	0.32	2.19	0.00	79.25	0.00	0.	0.00
142	20.900	31.80	0.00	0.00	0.00	6.12	19.00	0.00	19.00	0.00	1.77	0.10	0.32	2.19	0.00	79.29	0.00	0.	0.00
143	20.800	31.80	0.00	0.00	0.00	6.12	19.02	0.00	19.02	0.00	1.77	0.10	0.32	2.19	0.00	79.33	0.00	0.	0.00
144	20.700	31.80	0.00	0.00	0.00	6.12	19.05	0.00	19.05	0.00	1.77	0.10	0.32	2.19	0.00	79.37	0.00	0.	0.00
145	20.600	31.80	0.00	0.00	0.00	6.12	19.07	0.00	19.07	0.00	1.77	0.10	0.31	2.19	0.00	79.41	0.00	0.	0.00
146	20.500	31.80	0.00	0.00	0.00	6.12	19.09	0.00	19.09	0.00	1.78	0.10	0.31	2.19	0.00	79.45	0.00	0.	0.00
147	20.400	31.80	0.00	0.00	0.00	6.12	19.12	0.00	19.12	0.00	1.78	0.10	0.31	2.19	0.00	79.49	0.00	0.	0.00
148	20.300	31.80	0.00	0.00	0.00	6.11	19.14	0.00	19.14	0.00	1.78	0.10	0.31	2.19	0.00	79.53	0.00	0.	0.00
149	20.200	31.80	0.00	0.00	0.00	6.11	19.16	0.00	19.16	0.00	1.78	0.10	0.31	2.19	0.00	79.57	0.00	0.	0.00
150	20.100	31.80	0.00	0.00	0.00	6.11	19.19	0.00	19.19	0.00	1.78	0.10	0.31	2.19	0.00	79.61	0.00	0.	0.00
151	20.000	31.80	0.00	0.00	0.00	6.11	19.21	0.00	19.21	0.00	1.78	0.10	0.30	2.19	0.00	79.65	0.00	0.	0.00
152	19.900	31.80	0.00	0.00	0.00	6.11	19.23	0.00	19.23	0.00	1.78	0.10	0.30	2.19	0.00	79.69	0.00	0.	0.00
153	19.800	31.80	0.00	0.00	0.00	6.11	19.26	0.00	19.26	0.00	1.79	0.10	0.30	2.19	0.00	79.72	0.00	0.	0.00
154	19.700	31.80	0.00	0.00	0.00	6.11	19.28	0.00	19.28	0.00	1.79	0.10	0.30	2.19	0.00	79.76	0.00	0.	0.00
155	19.600	31.80	0.00	0.00	0.00	6.11	19.30	0.00	19.30	0.00	1.79	0.10	0.30	2.19	0.00	79.80	0.00	0.	0.00
156	19.500	31.80	0.00	0.00	0.00	6.11	19.33	0.00	19.33	0.00	1.79	0.10	0.30	2.19	0.00	79.84	0.00	0.	0.00
157	19.400	31.80	0.00	0.00	0.00	6.11	19.35	0.00	19.35	0.00	1.79	0.10	0.29	2.19	0.00	79.88	0.00	0.	0.00
158	19.300	31.80	0.00	0.00	0.00	6.11	19.37	0.00	19.37	0.00	1.79	0.10	0.29	2.19	0.00	79.92	0.00	0.	0.00
159	19.200	31.80	0.00	0.00	0.00	6.11	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.96	0.00	0.	0.00
160	19.100	31.80	0.00	0.00	0.00	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	2.19	0.00	80.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 3 120401-G to Turtle Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
161	UPR RCH	30.26726	31.80	0.00	0.00	0.00	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	0.00	80.00	0.00	0.00
EACH	INCR	0.00962	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01346																
161	WSTLD	-7.30570	31.80	0.00	0.00	0.00	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	0.00	79.62	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
161	19.10	19.00	22.95771	0.0	0.14428	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
162	19.00	18.90	22.95386	0.0	0.14426	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
163	18.90	18.80	22.95002	0.0	0.14423	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
164	18.80	18.70	22.94617	0.0	0.14421	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
165	18.70	18.60	22.94232	0.0	0.14418	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
166	18.60	18.50	22.93847	0.0	0.14416	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
167	18.50	18.40	22.93463	0.0	0.14413	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
168	18.40	18.30	22.93078	0.0	0.14411	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144

169	18.30	18.20	22.92693	0.0	0.14409	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
170	18.20	18.10	22.92309	0.0	0.14406	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
171	18.10	18.00	22.91924	0.0	0.14404	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
172	18.00	17.90	22.91539	0.0	0.14401	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
173	17.90	17.80	22.91154	0.0	0.14399	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
174	17.80	17.70	22.90770	0.0	0.14396	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
175	17.70	17.60	22.90385	0.0	0.14394	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
176	17.60	17.50	22.90000	0.0	0.14392	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
177	17.50	17.40	22.89616	0.0	0.14389	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
178	17.40	17.30	22.89231	0.0	0.14387	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
179	17.30	17.20	22.88846	0.0	0.14384	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
180	17.20	17.10	22.88461	0.0	0.14382	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
181	17.10	17.00	22.88077	0.0	0.14380	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
182	17.00	16.90	22.87692	0.0	0.14377	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
183	16.90	16.80	22.87307	0.0	0.14375	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
184	16.80	16.70	22.86923	0.0	0.14372	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
185	16.70	16.60	22.86538	0.0	0.14370	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
186	16.60	16.50	22.86153	0.0	0.14367	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
187	16.50	16.40	22.85769	0.0	0.14365	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
188	16.40	16.30	22.85384	0.0	0.14363	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
189	16.30	16.20	22.84999	0.0	0.14360	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
190	16.20	16.10	22.84614	0.0	0.14358	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
191	16.10	16.00	22.84230	0.0	0.14355	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
192	16.00	15.90	22.83845	0.0	0.14353	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
193	15.90	15.80	22.83460	0.0	0.14351	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
194	15.80	15.70	22.83076	0.0	0.14348	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
195	15.70	15.60	22.82691	0.0	0.14346	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
196	15.60	15.50	22.82306	0.0	0.14343	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
197	15.50	15.40	22.81921	0.0	0.14341	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
198	15.40	15.30	22.81537	0.0	0.14338	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
199	15.30	15.20	22.81152	0.0	0.14336	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
200	15.20	15.10	22.80767	0.0	0.14334	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
201	15.10	15.00	22.80383	0.0	0.14331	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
202	15.00	14.90	22.79998	0.0	0.14329	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
203	14.90	14.80	22.79613	0.0	0.14326	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
204	14.80	14.70	22.79228	0.0	0.14324	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
205	14.70	14.60	22.78844	0.0	0.14322	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
206	14.60	14.50	22.78459	0.0	0.14319	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
207	14.50	14.40	22.78074	0.0	0.14317	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
208	14.40	14.30	22.77690	0.0	0.14314	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
209	14.30	14.20	22.77305	0.0	0.14312	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
210	14.20	14.10	22.76920	0.0	0.14309	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
211	14.10	14.00	22.76535	0.0	0.14307	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
212	14.00	13.90	22.76151	0.0	0.14305	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
TOT					0.42			827424.00	468000.00						
AVG				0.1437			1.77	90.00			159.12				
CUM					1.12										

********** 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	1/da	
161	19.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
162	18.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00
177	17.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
179	17.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00

209	14.200	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
212	13.900	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	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	TOTN g/m^3	PHOS	CHL A	MACRO #/100mL	COLI	NCM
161	19.000	31.80	0.00	0.00	0.00	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.62	0.00	0.	0.00
162	18.900	31.80	0.00	0.00	0.00	6.16	19.39	0.00	19.39	0.00	1.80	0.10	0.29	2.18	0.00	79.23	0.00	0.	0.00
163	18.800	31.80	0.00	0.00	0.00	6.20	19.37	0.00	19.37	0.00	1.80	0.10	0.28	2.18	0.00	78.85	0.00	0.	0.00
164	18.700	31.80	0.00	0.00	0.00	6.23	19.35	0.00	19.35	0.00	1.79	0.10	0.28	2.18	0.00	78.46	0.00	0.	0.00
165	18.600	31.80	0.00	0.00	0.00	6.26	19.34	0.00	19.34	0.00	1.79	0.10	0.28	2.18	0.00	78.08	0.00	0.	0.00
166	18.500	31.80	0.00	0.00	0.00	6.29	19.32	0.00	19.32	0.00	1.79	0.10	0.28	2.17	0.00	77.69	0.00	0.	0.00
167	18.400	31.80	0.00	0.00	0.00	6.32	19.30	0.00	19.30	0.00	1.79	0.10	0.27	2.17	0.00	77.31	0.00	0.	0.00
168	18.300	31.80	0.00	0.00	0.00	6.35	19.28	0.00	19.28	0.00	1.79	0.10	0.27	2.17	0.00	76.92	0.00	0.	0.00
169	18.200	31.80	0.00	0.00	0.00	6.38	19.27	0.00	19.27	0.00	1.79	0.10	0.27	2.16	0.00	76.54	0.00	0.	0.00
170	18.100	31.80	0.00	0.00	0.00	6.41	19.25	0.00	19.25	0.00	1.79	0.10	0.27	2.16	0.00	76.15	0.00	0.	0.00
171	18.000	31.80	0.00	0.00	0.00	6.44	19.23	0.00	19.23	0.00	1.79	0.10	0.26	2.16	0.00	75.77	0.00	0.	0.00
172	17.900	31.80	0.00	0.00	0.00	6.46	19.21	0.00	19.21	0.00	1.79	0.10	0.26	2.15	0.00	75.38	0.00	0.	0.00
173	17.800	31.80	0.00	0.00	0.00	6.49	19.20	0.00	19.20	0.00	1.79	0.10	0.26	2.15	0.00	75.00	0.00	0.	0.00
174	17.700	31.80	0.00	0.00	0.00	6.52	19.18	0.00	19.18	0.00	1.79	0.10	0.26	2.15	0.00	74.62	0.00	0.	0.00
175	17.600	31.80	0.00	0.00	0.00	6.55	19.16	0.00	19.16	0.00	1.79	0.10	0.25	2.15	0.00	74.23	0.00	0.	0.00
176	17.500	31.80	0.00	0.00	0.00	6.57	19.15	0.00	19.15	0.00	1.79	0.10	0.25	2.14	0.00	73.85	0.00	0.	0.00
177	17.400	31.80	0.00	0.00	0.00	6.60	19.13	0.00	19.13	0.00	1.79	0.10	0.25	2.14	0.00	73.46	0.00	0.	0.00
178	17.300	31.80	0.00	0.00	0.00	6.62	19.11	0.00	19.11	0.00	1.79	0.10	0.25	2.14	0.00	73.08	0.00	0.	0.00
179	17.200	31.80	0.00	0.00	0.00	6.65	19.10	0.00	19.10	0.00	1.79	0.10	0.24	2.14	0.00	72.69	0.00	0.	0.00
180	17.100	31.80	0.00	0.00	0.00	6.67	19.08	0.00	19.08	0.00	1.79	0.10	0.24	2.13	0.00	72.31	0.00	0.	0.00
181	17.000	31.80	0.00	0.00	0.00	6.70	19.06	0.00	19.06	0.00	1.78	0.10	0.24	2.13	0.00	71.92	0.00	0.	0.00
182	16.900	31.80	0.00	0.00	0.00	6.72	19.04	0.00	19.04	0.00	1.78	0.10	0.24	2.13	0.00	71.54	0.00	0.	0.00
183	16.800	31.80	0.00	0.00	0.00	6.74	19.03	0.00	19.03	0.00	1.78	0.10	0.24	2.12	0.00	71.15	0.00	0.	0.00
184	16.700	31.80	0.00	0.00	0.00	6.77	19.01	0.00	19.01	0.00	1.78	0.10	0.23	2.12	0.00	70.77	0.00	0.	0.00
185	16.600	31.80	0.00	0.00	0.00	6.79	18.99	0.00	18.99	0.00	1.78	0.10	0.23	2.12	0.00	70.38	0.00	0.	0.00
186	16.500	31.80	0.00	0.00	0.00	6.81	18.98	0.00	18.98	0.00	1.78	0.10	0.23	2.12	0.00	70.00	0.00	0.	0.00
187	16.400	31.80	0.00	0.00	0.00	6.83	18.96	0.00	18.96	0.00	1.78	0.10	0.23	2.11	0.00	69.62	0.00	0.	0.00
188	16.300	31.80	0.00	0.00	0.00	6.85	18.94	0.00	18.94	0.00	1.78	0.10	0.22	2.11	0.00	69.23	0.00	0.	0.00
189	16.200	31.80	0.00	0.00	0.00	6.87	18.93	0.00	18.93	0.00	1.78	0.10	0.22	2.11	0.00	68.85	0.00	0.	0.00
190	16.100	31.80	0.00	0.00	0.00	6.90	18.91	0.00	18.91	0.00	1.78	0.10	0.22	2.11	0.00	68.46	0.00	0.	0.00
191	16.000	31.80	0.00	0.00	0.00	6.92	18.89	0.00	18.89	0.00	1.78	0.10	0.22	2.10	0.00	68.08	0.00	0.	0.00
192	15.900	31.80	0.00	0.00	0.00	6.94	18.88	0.00	18.88	0.00	1.78	0.11	0.22	2.10	0.00	67.69	0.00	0.	0.00
193	15.800	31.80	0.00	0.00	0.00	6.95	18.86	0.00	18.86	0.00	1.78	0.11	0.21	2.10	0.00	67.31	0.00	0.	0.00
194	15.700	31.80	0.00	0.00	0.00	6.97	18.84	0.00	18.84	0.00	1.78	0.11	0.21	2.09	0.00	66.92	0.00	0.	0.00
195	15.600	31.80	0.00	0.00	0.00	6.99	18.82	0.00	18.82	0.00	1.78	0.11	0.21	2.09	0.00	66.54	0.00	0.	0.00
196	15.500	31.80	0.00	0.00	0.00	7.01	18.81	0.00	18.81	0.00	1.78	0.11	0.21	2.09	0.00	66.15	0.00	0.	0.00
197	15.400	31.80	0.00	0.00	0.00	7.03	18.79	0.00	18.79	0.00	1.78	0.11	0.21	2.09	0.00	65.77	0.00	0.	0.00
198	15.300	31.80	0.00	0.00	0.00	7.05	18.77	0.00	18.77	0.00	1.78	0.11	0.20	2.08	0.00	65.38	0.00	0.	0.00
199	15.200	31.80	0.00	0.00	0.00	7.06	18.76	0.00	18.76	0.00	1.77	0.11	0.20	2.08	0.00	65.00	0.00	0.	0.00
200	15.100	31.80	0.00	0.00	0.00	7.08	18.74	0.00	18.74	0.00	1.77	0.11	0.20	2.08	0.00	64.62	0.00	0.	0.00
201	15.000	31.80	0.00	0.00	0.00	7.10	18.72	0.00	18.72	0.00	1.77	0.11	0.20	2.08	0.00	64.23	0.00	0.	0.00

202	14.900	31.80	0.00	0.00	0.00	7.11	18.71	0.00	18.71	0.00	1.77	0.11	0.20	2.07	0.00	63.85	0.00	0.	0.00
203	14.800	31.80	0.00	0.00	0.00	7.13	18.69	0.00	18.69	0.00	1.77	0.11	0.19	2.07	0.00	63.46	0.00	0.	0.00
204	14.700	31.80	0.00	0.00	0.00	7.14	18.67	0.00	18.67	0.00	1.77	0.11	0.19	2.07	0.00	63.08	0.00	0.	0.00
205	14.600	31.80	0.00	0.00	0.00	7.16	18.66	0.00	18.66	0.00	1.77	0.11	0.19	2.07	0.00	62.69	0.00	0.	0.00
206	14.500	31.80	0.00	0.00	0.00	7.17	18.64	0.00	18.64	0.00	1.77	0.11	0.19	2.06	0.00	62.31	0.00	0.	0.00
207	14.400	31.80	0.00	0.00	0.00	7.19	18.62	0.00	18.62	0.00	1.77	0.11	0.19	2.06	0.00	61.92	0.00	0.	0.00
208	14.300	31.80	0.00	0.00	0.00	7.20	18.61	0.00	18.61	0.00	1.77	0.11	0.18	2.06	0.00	61.54	0.00	0.	0.00
209	14.200	31.80	0.00	0.00	0.00	7.21	18.59	0.00	18.59	0.00	1.77	0.11	0.18	2.06	0.00	61.15	0.00	0.	0.00
210	14.100	31.80	0.00	0.00	0.00	7.23	18.58	0.00	18.58	0.00	1.77	0.11	0.18	2.06	0.00	60.77	0.00	0.	0.00
211	14.000	31.80	0.00	0.00	0.00	7.24	18.56	0.00	18.56	0.00	1.77	0.11	0.18	2.05	0.00	60.38	0.00	0.	0.00
212	13.900	31.80	0.00	0.00	0.00	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	2.05	0.00	60.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 4 Turtle Bayou to Carenero Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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	CHL A #/100mL	COLI	NCM
213	UPR RCH	22.76151	31.80	0.00	0.00	0.00	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	0.00	60.00	0.00	0.00
EACH	INCR	0.01250	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01750																
213	WSTLD	2.26536	31.80	0.00	0.00	0.00	3.70	3.40	0.00	3.40	0.00	2.00	0.05	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
213	13.90	13.80	25.02187	9.0	0.09131	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
214	13.80	13.70	25.01687	9.0	0.09129	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
215	13.70	13.60	25.01187	9.0	0.09127	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
216	13.60	13.50	25.00687	9.0	0.09125	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
217	13.50	13.40	25.00187	9.0	0.09123	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
218	13.40	13.30	24.99687	9.0	0.09122	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
219	13.30	13.20	24.99187	9.0	0.09120	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
220	13.20	13.10	24.98687	9.0	0.09118	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
221	13.10	13.00	24.98187	9.0	0.09116	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
222	13.00	12.90	24.97688	9.0	0.09114	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
223	12.90	12.80	24.97188	9.0	0.09112	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
224	12.80	12.70	24.96688	9.0	0.09111	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
225	12.70	12.60	24.96188	9.0	0.09109	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
226	12.60	12.50	24.95688	9.0	0.09107	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
227	12.50	12.40	24.95188	9.0	0.09105	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
228	12.40	12.30	24.94688	9.0	0.09103	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
229	12.30	12.20	24.94188	9.0	0.09102	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
230	12.20	12.10	24.93688	9.0	0.09100	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
231	12.10	12.00	24.93188	9.0	0.09098	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
232	12.00	11.90	24.92688	9.0	0.09096	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
233	11.90	11.80	24.92188	9.0	0.09094	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
234	11.80	11.70	24.91689	9.0	0.09092	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
235	11.70	11.60	24.91189	8.9	0.09091	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
236	11.60	11.50	24.90689	8.9	0.09089	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
237	11.50	11.40	24.90189	8.9	0.09087	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
238	11.40	11.30	24.89689	8.9	0.09085	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091

239	11.30	11.20	24.89189	8.9	0.09083	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
240	11.20	11.10	24.88689	8.9	0.09081	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
241	11.10	11.00	24.88189	8.9	0.09080	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
242	11.00	10.90	24.87689	8.9	0.09078	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
243	10.90	10.80	24.87189	8.9	0.09076	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
244	10.80	10.70	24.86689	8.9	0.09074	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
245	10.70	10.60	24.86189	8.9	0.09072	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
246	10.60	10.50	24.85690	8.9	0.09071	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
247	10.50	10.40	24.85190	8.9	0.09069	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
248	10.40	10.30	24.84690	8.9	0.09067	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
249	10.30	10.20	24.84190	8.9	0.09065	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
250	10.20	10.10	24.83690	8.9	0.09063	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
251	10.10	10.00	24.83190	8.9	0.09061	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
252	10.00	9.90	24.82690	8.9	0.09060	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
TOT					0.51		1096160.00	620000.00							
AVG				0.0910		1.77	155.00				274.04				
CUM					1.63										

********** 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		
213	13.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	
214	13.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	
215	13.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00	
216	13.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	
217	13.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	
218	13.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	
219	13.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00	
220	13.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00	
221	13.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00	
222	12.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00	
223	12.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00	
224	12.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00	
225	12.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	
226	12.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00	
227	12.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00	
228	12.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00	
229	12.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00	
230	12.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00	
231	12.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00	
232	11.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	
233	11.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00	
234	11.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	
235	11.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	
236	11.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00	
237	11.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00	
238	11.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00	
239	11.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	
240	11.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	
241	11.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	

242	10.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
243	10.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
244	10.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
245	10.600	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	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	TOTN g/m^3	PHOS	CHL A	MACRO	COLI #/100mL	NCM
213	13.800	31.80	0.00	0.00	0.00	6.96	17.15	0.00	17.15	0.00	1.79	0.10	0.16	2.05	0.00	59.50	0.00	0.	0.00
214	13.700	31.80	0.00	0.00	0.00	6.98	17.13	0.00	17.13	0.00	1.79	0.10	0.16	2.04	0.00	59.00	0.00	0.	0.00
215	13.600	31.80	0.00	0.00	0.00	7.00	17.10	0.00	17.10	0.00	1.79	0.10	0.15	2.04	0.00	58.50	0.00	0.	0.00
216	13.500	31.80	0.00	0.00	0.00	7.02	17.08	0.00	17.08	0.00	1.79	0.10	0.15	2.04	0.00	58.00	0.00	0.	0.00
217	13.400	31.80	0.00	0.00	0.00	7.04	17.06	0.00	17.06	0.00	1.78	0.10	0.15	2.03	0.00	57.50	0.00	0.	0.00
218	13.300	31.80	0.00	0.00	0.00	7.06	17.04	0.00	17.04	0.00	1.78	0.10	0.14	2.03	0.00	57.00	0.00	0.	0.00
219	13.200	31.80	0.00	0.00	0.00	7.08	17.02	0.00	17.02	0.00	1.78	0.10	0.14	2.03	0.00	56.50	0.00	0.	0.00
220	13.100	31.80	0.00	0.00	0.00	7.10	16.99	0.00	16.99	0.00	1.78	0.10	0.14	2.02	0.00	56.00	0.00	0.	0.00
221	13.000	31.80	0.00	0.00	0.00	7.12	16.97	0.00	16.97	0.00	1.78	0.10	0.14	2.02	0.00	55.50	0.00	0.	0.00
222	12.900	31.80	0.00	0.00	0.00	7.14	16.95	0.00	16.95	0.00	1.78	0.10	0.13	2.02	0.00	55.00	0.00	0.	0.00
223	12.800	31.80	0.00	0.00	0.00	7.15	16.93	0.00	16.93	0.00	1.78	0.10	0.13	2.01	0.00	54.50	0.00	0.	0.00
224	12.700	31.80	0.00	0.00	0.00	7.17	16.91	0.00	16.91	0.00	1.78	0.10	0.13	2.01	0.00	54.00	0.00	0.	0.00
225	12.600	31.80	0.00	0.00	0.00	7.18	16.88	0.00	16.88	0.00	1.78	0.10	0.13	2.01	0.00	53.50	0.00	0.	0.00
226	12.500	31.80	0.00	0.00	0.00	7.20	16.86	0.00	16.86	0.00	1.78	0.10	0.12	2.00	0.00	53.00	0.00	0.	0.00
227	12.400	31.80	0.00	0.00	0.00	7.21	16.84	0.00	16.84	0.00	1.78	0.10	0.12	2.00	0.00	52.50	0.00	0.	0.00
228	12.300	31.80	0.00	0.00	0.00	7.23	16.82	0.00	16.82	0.00	1.78	0.10	0.12	2.00	0.00	52.00	0.00	0.	0.00
229	12.200	31.80	0.00	0.00	0.00	7.24	16.80	0.00	16.80	0.00	1.77	0.10	0.12	1.99	0.00	51.50	0.00	0.	0.00
230	12.100	31.80	0.00	0.00	0.00	7.25	16.78	0.00	16.78	0.00	1.77	0.10	0.11	1.99	0.00	51.00	0.00	0.	0.00
231	12.000	31.80	0.00	0.00	0.00	7.26	16.75	0.00	16.75	0.00	1.77	0.10	0.11	1.99	0.00	50.50	0.00	0.	0.00
232	11.900	31.80	0.00	0.00	0.00	7.27	16.73	0.00	16.73	0.00	1.77	0.10	0.11	1.98	0.00	50.00	0.00	0.	0.00
233	11.800	31.80	0.00	0.00	0.00	7.28	16.71	0.00	16.71	0.00	1.77	0.10	0.11	1.98	0.00	49.50	0.00	0.	0.00
234	11.700	31.80	0.00	0.00	0.00	7.29	16.69	0.00	16.69	0.00	1.77	0.10	0.11	1.98	0.00	49.00	0.00	0.	0.00
235	11.600	31.80	0.00	0.00	0.00	7.30	16.67	0.00	16.67	0.00	1.77	0.10	0.10	1.98	0.00	48.50	0.00	0.	0.00
236	11.500	31.80	0.00	0.00	0.00	7.31	16.65	0.00	16.65	0.00	1.77	0.10	0.10	1.97	0.00	48.00	0.00	0.	0.00
237	11.400	31.80	0.00	0.00	0.00	7.32	16.62	0.00	16.62	0.00	1.77	0.10	0.10	1.97	0.00	47.50	0.00	0.	0.00
238	11.300	31.80	0.00	0.00	0.00	7.32	16.60	0.00	16.60	0.00	1.77	0.10	0.10	1.97	0.00	47.00	0.00	0.	0.00
239	11.200	31.80	0.00	0.00	0.00	7.33	16.58	0.00	16.58	0.00	1.77	0.10	0.09	1.96	0.00	46.50	0.00	0.	0.00
240	11.100	31.80	0.00	0.00	0.00	7.34	16.56	0.00	16.56	0.00	1.77	0.10	0.09	1.96	0.00	46.00	0.00	0.	0.00
241	11.000	31.80	0.00	0.00	0.00	7.34	16.54	0.00	16.54	0.00	1.77	0.10	0.09	1.96	0.00	45.50	0.00	0.	0.00
242	10.900	31.80	0.00	0.00	0.00	7.35	16.52	0.00	16.52	0.00	1.76	0.10	0.09	1.96	0.00	45.00	0.00	0.	0.00
243	10.800	31.80	0.00	0.00	0.00	7.35	16.50	0.00	16.50	0.00	1.76	0.10	0.09	1.95	0.00	44.50	0.00	0.	0.00
244	10.700	31.80	0.00	0.00	0.00	7.36	16.47	0.00	16.47	0.00	1.76	0.10	0.08	1.95	0.00	44.00	0.00	0.	0.00
245	10.600	31.80	0.00	0.00	0.00	7.36	16.45	0.00	16.45	0.00	1.76	0.10	0.08	1.95	0.00	43.50	0.00	0.	0.00
246	10.500	31.80	0.00	0.00	0.00	7.36	16.43	0.00	16.43	0.00	1.76	0.10	0.08	1.95	0.00	43.00	0.00	0.	0.00

247	10.400	31.80	0.00	0.00	0.00	7.36	16.41	0.00	16.41	0.00	1.76	0.10	0.08	1.94	0.00	42.50	0.00	0.	0.00
248	10.300	31.80	0.00	0.00	0.00	7.37	16.39	0.00	16.39	0.00	1.76	0.10	0.08	1.94	0.00	42.00	0.00	0.	0.00
249	10.200	31.80	0.00	0.00	0.00	7.37	16.37	0.00	16.37	0.00	1.76	0.10	0.08	1.94	0.00	41.50	0.00	0.	0.00
250	10.100	31.80	0.00	0.00	0.00	7.37	16.35	0.00	16.35	0.00	1.76	0.10	0.07	1.94	0.00	41.00	0.00	0.	0.00
251	10.000	31.80	0.00	0.00	0.00	7.37	16.33	0.00	16.33	0.00	1.76	0.10	0.07	1.93	0.00	40.50	0.00	0.	0.00
252	9.900	31.80	0.00	0.00	0.00	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	1.93	0.00	40.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 5 Carenero Bayou to un canal 2 Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
253	UPR RCH	24.82690	31.80	0.00	0.00	0.00	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	0.00	40.00	0.00	0.00
EACH	INCR	0.00794	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01111																
253	WSTLD	-19.34050	31.80	0.00	0.00	0.00	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	0.00	39.75	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
253	9.90	9.80	5.48323	8.9	0.03446	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
254	9.80	9.70	5.48005	8.9	0.03444	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
255	9.70	9.60	5.47688	8.8	0.03442	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
256	9.60	9.50	5.47370	8.8	0.03440	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
257	9.50	9.40	5.47053	8.8	0.03438	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
258	9.40	9.30	5.46735	8.8	0.03436	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
259	9.30	9.20	5.46418	8.8	0.03434	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
260	9.20	9.10	5.46100	8.8	0.03432	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
261	9.10	9.00	5.45783	8.8	0.03430	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
262	9.00	8.90	5.45465	8.8	0.03428	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
263	8.90	8.80	5.45148	8.7	0.03426	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
264	8.80	8.70	5.44830	8.7	0.03424	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
265	8.70	8.60	5.44513	8.7	0.03422	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
266	8.60	8.50	5.44195	8.7	0.03420	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
267	8.50	8.40	5.43878	8.7	0.03418	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
268	8.40	8.30	5.43561	8.7	0.03416	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
269	8.30	8.20	5.43243	8.7	0.03414	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
270	8.20	8.10	5.42926	8.7	0.03412	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
271	8.10	8.00	5.42608	8.6	0.03410	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
272	8.00	7.90	5.42291	8.6	0.03408	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
273	7.90	7.80	5.41973	8.6	0.03406	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
274	7.80	7.70	5.41656	8.6	0.03404	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
275	7.70	7.60	5.41338	8.6	0.03402	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
276	7.60	7.50	5.41021	8.6	0.03400	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
277	7.50	7.40	5.40703	8.6	0.03398	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
278	7.40	7.30	5.40386	8.6	0.03396	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
279	7.30	7.20	5.40068	8.5	0.03394	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
280	7.20	7.10	5.39751	8.5	0.03392	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
281	7.10	7.00	5.39433	8.5	0.03390	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
282	7.00	6.90	5.39116	8.5	0.03388	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
283	6.90	6.80	5.38798	8.5	0.03386	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	

284	6.80	6.70	5.38481	8.5	0.03384	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
285	6.70	6.60	5.38163	8.5	0.03382	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
286	6.60	6.50	5.37846	8.5	0.03380	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
287	6.50	6.40	5.37528	8.4	0.03378	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
288	6.40	6.30	5.37211	8.4	0.03376	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
289	6.30	6.20	5.36893	8.4	0.03374	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
290	6.20	6.10	5.36576	8.4	0.03372	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
291	6.10	6.00	5.36259	8.4	0.03370	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
292	6.00	5.90	5.35941	8.4	0.03368	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
293	5.90	5.80	5.35624	8.4	0.03366	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
294	5.80	5.70	5.35306	8.4	0.03364	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
295	5.70	5.60	5.34989	8.3	0.03362	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
296	5.60	5.50	5.34671	8.3	0.03360	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
297	5.50	5.40	5.34354	8.3	0.03358	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
298	5.40	5.30	5.34036	8.3	0.03356	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
299	5.30	5.20	5.33719	8.3	0.03354	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
300	5.20	5.10	5.33401	8.3	0.03352	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
301	5.10	5.00	5.33084	8.3	0.03350	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
302	5.00	4.90	5.32766	8.3	0.03348	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
303	4.90	4.80	5.32449	8.2	0.03346	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
304	4.80	4.70	5.32131	8.2	0.03344	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
305	4.70	4.60	5.31814	8.2	0.03342	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
306	4.60	4.50	5.31496	8.2	0.03340	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
307	4.50	4.40	5.31179	8.2	0.03338	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
308	4.40	4.30	5.30861	8.2	0.03336	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
309	4.30	4.20	5.30544	8.2	0.03334	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
310	4.20	4.10	5.30226	8.2	0.03332	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
311	4.10	4.00	5.29909	8.1	0.03330	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
312	4.00	3.90	5.29591	8.1	0.03328	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
313	3.90	3.80	5.29274	8.1	0.03326	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
314	3.80	3.70	5.28957	8.1	0.03324	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
315	3.70	3.60	5.28639	8.1	0.03322	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
TOT					2.15			1002456.00	567000.00						
AVG				0.0338			1.77	90.00			159.12				
CUM					3.78										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00

264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
253	9.800	31.80	0.00	0.00	0.00	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	1.93	0.00	39.75	0.00	0.	0.00
254	9.700	31.80	0.00	0.00	0.00	7.36	16.24	0.00	16.24	0.00	1.75	0.10	0.06	1.92	0.00	39.49	0.00	0.	0.00
255	9.600	31.80	0.00	0.00	0.00	7.36	16.18	0.00	16.18	0.00	1.75	0.10	0.06	1.92	0.00	39.24	0.00	0.	0.00
256	9.500	31.80	0.00	0.00	0.00	7.36	16.13	0.00	16.13	0.00	1.75	0.10	0.06	1.91	0.00	38.98	0.00	0.	0.00
257	9.400	31.80	0.00	0.00	0.00	7.35	16.07	0.00	16.07	0.00	1.75	0.10	0.05	1.90	0.00	38.73	0.00	0.	0.00
258	9.300	31.80	0.00	0.00	0.00	7.35	16.01	0.00	16.01	0.00	1.75	0.10	0.05	1.90	0.00	38.48	0.00	0.	0.00
259	9.200	31.80	0.00	0.00	0.00	7.34	15.96	0.00	15.96	0.00	1.74	0.10	0.04	1.89	0.00	38.22	0.00	0.	0.00
260	9.100	31.80	0.00	0.00	0.00	7.34	15.91	0.00	15.91	0.00	1.74	0.11	0.04	1.89	0.00	37.97	0.00	0.	0.00
261	9.000	31.80	0.00	0.00	0.00	7.33	15.85	0.00	15.85	0.00	1.74	0.11	0.04	1.88	0.00	37.71	0.00	0.	0.00
262	8.900	31.80	0.00	0.00	0.00	7.33	15.80	0.00	15.80	0.00	1.74	0.11	0.03	1.87	0.00	37.46	0.00	0.	0.00
263	8.800	31.80	0.00	0.00	0.00	7.32	15.74	0.00	15.74	0.00	1.73	0.11	0.03	1.87	0.00	37.21	0.00	0.	0.00
264	8.700	31.80	0.00	0.00	0.00	7.31	15.69	0.00	15.69	0.00	1.73	0.11	0.02	1.86	0.00	36.95	0.00	0.	0.00
265	8.600	31.80	0.00	0.00	0.00	7.30	15.64	0.00	15.64	0.00	1.73	0.11	0.02	1.86	0.00	36.70	0.00	0.	0.00
266	8.500	31.80	0.00	0.00	0.00	7.30	15.58	0.00	15.58	0.00	1.73	0.11	0.02	1.85	0.00	36.44	0.00	0.	0.00
267	8.400	31.80	0.00	0.00	0.00	7.29	15.53	0.00	15.53	0.00	1.73	0.11	0.01	1.84	0.00	36.19	0.00	0.	0.00
268	8.300	31.80	0.00	0.00	0.00	7.28	15.48	0.00	15.48	0.00	1.72	0.11	0.01	1.84	0.00	35.94	0.00	0.	0.00
269	8.200	31.80	0.00	0.00	0.00	7.27	15.42	0.00	15.42	0.00	1.72	0.11	0.00	1.83	0.00	35.68	0.00	0.	0.00
270	8.100	31.80	0.00	0.00	0.00	7.26	15.37	0.00	15.37	0.00	1.72	0.11	0.00	1.83	0.00	35.43	0.00	0.	0.00
271	8.000	31.80	0.00	0.00	0.00	7.25	15.32	0.00	15.32	0.00	1.72	0.11	0.00	1.82	0.00	35.17	0.00	0.	0.00
272	7.900	31.80	0.00	0.00	0.00	7.24	15.27	0.00	15.27	0.00	1.72	0.11	0.00	1.82	0.00	34.92	0.00	0.	0.00
273	7.800	31.80	0.00	0.00	0.00	7.23	15.21	0.00	15.21	0.00	1.71	0.11	0.00	1.82	0.00	34.67	0.00	0.	0.00
274	7.700	31.80	0.00	0.00	0.00	7.21	15.16	0.00	15.16	0.00	1.71	0.11	0.00	1.82	0.00	34.41	0.00	0.	0.00
275	7.600	31.80	0.00	0.00	0.00	7.20	15.11	0.00	15.11	0.00	1.71	0.11	0.00	1.82	0.00	34.16	0.00	0.	0.00
276	7.500	31.80	0.00	0.00	0.00	7.19	15.06	0.00	15.06	0.00	1.71	0.11	0.00	1.81	0.00	33.90	0.00	0.	0.00
277	7.400	31.80	0.00	0.00	0.00	7.18	15.01	0.00	15.01	0.00	1.71	0.11	0.00	1.81	0.00	33.65	0.00	0.	0.00
278	7.300	31.80	0.00	0.00	0.00	7.16	14.96	0.00	14.96	0.00	1.70	0.11	0.00	1.81	0.00	33.40	0.00	0.	0.00
279	7.200	31.80	0.00	0.00	0.00	7.15	14.91	0.00	14.91	0.00	1.70	0.11	0.00	1.81	0.00	33.14	0.00	0.	0.00
280	7.100	31.80	0.00	0.00	0.00	7.14	14.85	0.00	14.85	0.00	1.70	0.11	0.00	1.81	0.00	32.89	0.00	0.	0.00
281	7.000	31.80	0.00	0.00	0.00	7.12	14.80	0.00	14.80	0.00	1.70	0.11	0.00	1.80	0.00	32.63	0.00	0.	0.00
282	6.900	31.80	0.00	0.00	0.00	7.11	14.75	0.00	14.75	0.00	1.70	0.11	0.00	1.80	0.00	32.38	0.00	0.	0.00
283	6.800	31.80	0.00	0.00	0.00	7.09	14.70	0.00	14.70	0.00	1.69	0.11	0.00	1.80	0.00	32.13	0.00	0.	0.00
284	6.700	31.80	0.00	0.00	0.00	7.08	14.65	0.00	14.65	0.00	1.69	0.11	0.00	1.80	0.00	31.87	0.00	0.	0.00
285	6.600	31.80	0.00	0.00	0.00	7.06	14.60	0.00	14.60	0.00	1.69	0.11	0.00	1.80	0.00	31.62	0.00	0.	0.00
286	6.500	31.80	0.00	0.00	0.00	7.05	14.55	0.00	14.55	0.00	1.69	0.11	0.00	1.79	0.00	31.37	0.00	0.	0.00
287	6.400	31.80	0.00	0.00	0.00	7.03	14.51	0.00	14.51	0.00	1.68	0.11	0.00	1.79	0.00	31.11	0.00	0.	0.00
288	6.300	31.80	0.00	0.00	0.00	7.01	14.46	0.00	14.46	0.00	1.68	0.11	0.00	1.79	0.00	30.86	0.00	0.	0.00
289	6.200	31.80	0.00	0.00	0.00	7.00	14.41	0.00	14.41	0.00	1.68	0.11	0.00	1.79	0.00	30.60	0.00	0.	0.00
290	6.100	31.80	0.00	0.00	0.00	6.98	14.36	0.00	14.36	0.00	1.68	0.11	0.00	1.79	0.00	30.35	0.00	0.	0.00
291	6.000	31.80	0.00	0.00	0.00	6.96	14.31	0.00	14.31	0.00	1.68	0.11	0.00	1.78	0.00	30.10	0.00	0.	0.00
292	5.900	31.80	0.00	0.00	0.00	6.94	14.26	0.00	14.26	0.00	1.67	0.11	0.00	1.78	0.00	29.84	0.00	0.	0.00
293	5.800	31.80	0.00	0.00	0.00	6.93	14.21	0.00	14.21	0.00	1.67	0.11	0.00	1.78	0.00	29.59	0.00	0.	0.00
294	5.700	31.80	0.00	0.00	0.00	6.91	14.17	0.00	14.17	0.00	1.67	0.11	0.00	1.78	0.00	29.33	0.00	0.	0.00
295	5.600	31.80	0.00	0.00	0.00	6.89	14.12	0.00	14.12	0.00	1.67	0.11	0.00	1.78	0.00	29.08	0.00	0.	0.00

296	5.500	31.80	0.00	0.00	0.00	6.87	14.07	0.00	14.07	0.00	1.67	0.11	0.00	1.78	0.00	28.83	0.00	0.	0.00
297	5.400	31.80	0.00	0.00	0.00	6.85	14.02	0.00	14.02	0.00	1.66	0.11	0.00	1.77	0.00	28.57	0.00	0.	0.00
298	5.300	31.80	0.00	0.00	0.00	6.83	13.97	0.00	13.97	0.00	1.66	0.11	0.00	1.77	0.00	28.32	0.00	0.	0.00
299	5.200	31.80	0.00	0.00	0.00	6.81	13.93	0.00	13.93	0.00	1.66	0.11	0.00	1.77	0.00	28.06	0.00	0.	0.00
300	5.100	31.80	0.00	0.00	0.00	6.79	13.88	0.00	13.88	0.00	1.66	0.11	0.00	1.77	0.00	27.81	0.00	0.	0.00
301	5.000	31.80	0.00	0.00	0.00	6.77	13.83	0.00	13.83	0.00	1.66	0.11	0.00	1.77	0.00	27.56	0.00	0.	0.00
302	4.900	31.80	0.00	0.00	0.00	6.75	13.79	0.00	13.79	0.00	1.65	0.11	0.00	1.76	0.00	27.30	0.00	0.	0.00
303	4.800	31.80	0.00	0.00	0.00	6.73	13.74	0.00	13.74	0.00	1.65	0.11	0.00	1.76	0.00	27.05	0.00	0.	0.00
304	4.700	31.80	0.00	0.00	0.00	6.71	13.70	0.00	13.70	0.00	1.65	0.11	0.00	1.76	0.00	26.79	0.00	0.	0.00
305	4.600	31.80	0.00	0.00	0.00	6.69	13.65	0.00	13.65	0.00	1.65	0.11	0.00	1.76	0.00	26.54	0.00	0.	0.00
306	4.500	31.80	0.00	0.00	0.00	6.67	13.60	0.00	13.60	0.00	1.65	0.11	0.00	1.76	0.00	26.29	0.00	0.	0.00
307	4.400	31.80	0.00	0.00	0.00	6.65	13.56	0.00	13.56	0.00	1.65	0.11	0.00	1.75	0.00	26.03	0.00	0.	0.00
308	4.300	31.80	0.00	0.00	0.00	6.63	13.51	0.00	13.51	0.00	1.64	0.11	0.00	1.75	0.00	25.78	0.00	0.	0.00
309	4.200	31.80	0.00	0.00	0.00	6.60	13.47	0.00	13.47	0.00	1.64	0.11	0.00	1.75	0.00	25.52	0.00	0.	0.00
310	4.100	31.80	0.00	0.00	0.00	6.58	13.42	0.00	13.42	0.00	1.64	0.11	0.00	1.75	0.00	25.27	0.00	0.	0.00
311	4.000	31.80	0.00	0.00	0.00	6.56	13.38	0.00	13.38	0.00	1.64	0.11	0.00	1.75	0.00	25.02	0.00	0.	0.00
312	3.900	31.80	0.00	0.00	0.00	6.54	13.33	0.00	13.33	0.00	1.64	0.11	0.00	1.74	0.00	24.76	0.00	0.	0.00
313	3.800	31.80	0.00	0.00	0.00	6.51	13.29	0.00	13.29	0.00	1.63	0.11	0.00	1.74	0.00	24.51	0.00	0.	0.00
314	3.700	31.80	0.00	0.00	0.00	6.49	13.24	0.00	13.24	0.00	1.63	0.11	0.00	1.74	0.00	24.25	0.00	0.	0.00
315	3.600	31.80	0.00	0.00	0.00	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 6 un canal 2 to Corasaw conf. Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
316	UPR RCH	5.28639	31.80	0.00	0.00	0.00	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.01667	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.02333																

********** 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
316	3.60	3.50	5.27972	8.1	0.02715	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
317	3.50	3.40	5.27306	8.0	0.02711	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
318	3.40	3.30	5.26639	8.0	0.02708	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
319	3.30	3.20	5.25972	8.0	0.02705	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
320	3.20	3.10	5.25306	8.0	0.02701	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
321	3.10	3.00	5.24639	7.9	0.02698	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
322	3.00	2.90	5.23972	7.9	0.02694	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
323	2.90	2.80	5.23306	7.9	0.02691	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
324	2.80	2.70	5.22639	7.9	0.02687	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
325	2.70	2.60	5.21972	7.8	0.02684	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
326	2.60	2.50	5.21306	7.8	0.02681	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
327	2.50	2.40	5.20639	7.8	0.02677	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
328	2.40	2.30	5.19972	7.8	0.02674	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
329	2.30	2.20	5.19306	7.7	0.02670	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
330	2.20	2.10	5.18639	7.7	0.02667	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
331	2.10	2.00	5.17972	7.7	0.02663	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
332	2.00	1.90	5.17306	7.7	0.02660	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	
333	1.90	1.80	5.16639	7.6	0.02657	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027	

334	1.80	1.70	5.15972	7.6	0.02653	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
335	1.70	1.60	5.15306	7.6	0.02650	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
336	1.60	1.50	5.14639	7.6	0.02646	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
337	1.50	1.40	5.13972	7.5	0.02643	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
338	1.40	1.30	5.13306	7.5	0.02639	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
339	1.30	1.20	5.12639	7.5	0.02636	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
340	1.20	1.10	5.11972	7.5	0.02633	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
341	1.10	1.00	5.11306	7.4	0.02629	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
342	1.00	0.90	5.10639	7.4	0.02626	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
343	0.90	0.80	5.09972	7.4	0.02622	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
344	0.80	0.70	5.09306	7.4	0.02619	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
345	0.70	0.60	5.08639	7.4	0.02615	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
TOT					1.30			583440.00	330000.00						
AVG				0.0266			1.77	110.00			194.48				
CUM					5.09										

********** 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	
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
316	3.500	31.82	0.00	0.00	0.00	6.44	13.14	0.00	13.14	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0.	0.00
317	3.400	31.83	0.00	0.00	0.00	6.41	13.08	0.00	13.08	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00
318	3.300	31.85	0.00	0.00	0.00	6.38	13.02	0.00	13.02	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00
319	3.200	31.87	0.00	0.00	0.00	6.35	12.96	0.00	12.96	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00
320	3.100	31.88	0.00	0.00	0.00	6.33	12.91	0.00	12.91	0.00	1.62	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00
321	3.000	31.90	0.00	0.00	0.00	6.30	12.85	0.00	12.85	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00
322	2.900	31.92	0.00	0.00	0.00	6.27	12.79	0.00	12.79	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00
323	2.800	31.93	0.00	0.00	0.00	6.25	12.74	0.00	12.74	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00
324	2.700	31.95	0.00	0.00	0.00	6.23	12.68	0.00	12.68	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00
325	2.600	31.97	0.00	0.00	0.00	6.20	12.63	0.00	12.63	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00
326	2.500	31.98	0.00	0.00	0.00	6.18	12.57	0.00	12.57	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00
327	2.400	32.00	0.00	0.00	0.00	6.16	12.52	0.00	12.52	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00
328	2.300	32.02	0.00	0.00	0.00	6.14	12.46	0.00	12.46	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00
329	2.200	32.03	0.00	0.00	0.00	6.12	12.41	0.00	12.41	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00
330	2.100	32.05	0.00	0.00	0.00	6.10	12.35	0.00	12.35	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00
331	2.000	32.07	0.00	0.00	0.00	6.08	12.30	0.00	12.30	0.00	1.59	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00
332	1.900	32.08	0.00	0.00	0.00	6.06	12.25	0.00	12.25	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00
333	1.800	32.10	0.00	0.00	0.00	6.04	12.19	0.00	12.19	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00
334	1.700	32.12	0.00	0.00	0.00	6.02	12.14	0.00	12.14	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00
335	1.600	32.13	0.00	0.00	0.00	6.01	12.09	0.00	12.09	0.00	1.58	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00
336	1.500	32.15	0.00	0.00	0.00	5.99	12.03	0.00	12.03	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00
337	1.400	32.17	0.00	0.00	0.00	5.97	11.98	0.00	11.98	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00
338	1.300	32.18	0.00	0.00	0.00	5.96	11.93	0.00	11.93	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00
339	1.200	32.20	0.00	0.00	0.00	5.94	11.88	0.00	11.88	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00
340	1.100	32.22	0.00	0.00	0.00	5.93	11.83	0.00	11.83	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00
341	1.000	32.23	0.00	0.00	0.00	5.91	11.78	0.00	11.78	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00
342	0.900	32.25	0.00	0.00	0.00	5.90	11.72	0.00	11.72	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00
343	0.800	32.27	0.00	0.00	0.00	5.89	11.67	0.00	11.67	0.00	1.56	0.11	0.00	1.66	0.00	24.00	0.00	0.	0.00
344	0.700	32.28	0.00	0.00	0.00	5.88	11.59	0.00	11.59	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00
345	0.600	32.30	0.00	0.00	0.00	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 17 Corasaw conf. to 120401-C Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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	CHL A #/100mL	COLI	NCM
526	UPR RCH	5.08639	32.30	0.00	0.00	0.00	0.00	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	0.00 24.00	0.00	0.00
526	TRIB	3.72368	32.30	0.00	0.00	0.00	0.00	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	0.00 24.00	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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
526	0.60	0.50	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
527	0.50	0.40	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
528	0.40	0.30	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
529	0.30	0.20	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071

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 530   0.20   0.10   8.81007  22.1   0.07141    0.02   1.40   88.00  12337.60   8800.00  123.38     0.00  0.000     0.500  0.071
 531   0.10   0.00   8.81007  22.1   0.07141    0.02   1.40   88.00  12337.60   8800.00  123.38     0.00  0.000     0.500  0.071
 TOT                                   0.10                 74025.60   52800.00
 AVG                            0.0714          1.40   88.00                  123.38
 CUM                                   5.18
********************************************** 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  1/da
526   0.500  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.25  3.25  3.25  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
527   0.400  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.25  3.25  3.25  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
528   0.300  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
529   0.200  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
530   0.100  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
531   0.000  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.23  3.23  3.23  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.63  0.05  0.00  0.00  0.00  0.00  0.00  1.50            0.02  0.00  0.15  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
526   0.500  32.28  0.00    0.00    0.00  6.07  9.39  0.00  9.39  0.00  1.93  0.12  0.00  2.06  0.00  24.00   0.00      0.   0.00
527   0.400  32.27  0.00    0.00    0.00  6.06  9.38  0.00  9.38  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
528   0.300  32.25  0.00    0.00    0.00  6.06  9.36  0.00  9.36  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
529   0.200  32.23  0.00    0.00    0.00  6.06  9.35  0.00  9.35  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
530   0.100  32.22  0.00    0.00    0.00  6.05  9.28  0.00  9.28  0.00  1.91  0.12  0.00  2.04  0.00  24.00   0.00      0.   0.00
531   0.000  32.20  0.00    0.00    0.00  6.05  8.45  0.00  8.45  0.00  1.69  0.12  0.00  1.81  0.00  24.00   0.00      0.   0.00
STREAM SUMMARY                                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Bayou Chene                                  Calibration Simulation for Lake Penchant and Bayou Penchant mode
 TRAVEL TIME      =          5.18 DAYS
 MAXIMUM EFFLUENT  =         22.14 PERCENT
 FLOW            =  5.08639 TO   30.66125   m³/s
 DISPERSION       =  0.3000  TO    0.6000    m²/s
 VELOCITY         =  0.02615 TO    0.27696   m/s
 DEPTH           =  1.00    TO    1.77      m
 WIDTH           =  88.00    TO  155.00      m
 BOD DECAY        =    0.09   TO    0.21      per day
 NH3 DECAY        =    0.35   TO    0.38      per day
 SOD             =   3.15   TO    5.68      g/m²/d
 NH3 SOURCE       =    0.00   TO    0.00      g/m²/d
 REAERATION       =    0.49   TO    2.57      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  =   5.88   TO    7.37      mg/L
FINAL REPORT    Station 935                       LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO.  7    935 to Peoples Canal and L.P                Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS ************************************************************
ELEM  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
NO.              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
```

346 HDWTR 0.11327 31.20 0.00 0.00 0.00 4.70 3.42 0.00 3.42 0.00 0.90 0.10 0.04 0.00 10.00 0.00 0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
346	18.00	17.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
347	17.90	17.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
348	17.80	17.70	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
349	17.70	17.60	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
350	17.60	17.50	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
351	17.50	17.40	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
352	17.40	17.30	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
353	17.30	17.20	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
354	17.20	17.10	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
355	17.10	17.00	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
356	17.00	16.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
357	16.90	16.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
358	16.80	16.70	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
359	16.70	16.60	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
360	16.60	16.50	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
361	16.50	16.40	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
362	16.40	16.30	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
363	16.30	16.20	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
364	16.20	16.10	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
365	16.10	16.00	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
366	16.00	15.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
367	15.90	15.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
TOT					13.91			136136.00	77000.00							
AVG				0.0018			1.77	35.00			61.88					
CUM					13.91											

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SETT *	BKGD DECAY 1/da	FULL SOD 1/da	CORR SOD *	SOD DECAY 1/da	ORGN SETT *	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		

362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
346	17.900	31.48	0.00	0.00	0.00	4.71	3.25	0.00	3.25	0.00	0.89	0.10	0.03	1.01	0.00	10.00	0.00	0.	0.00
347	17.800	31.45	0.00	0.00	0.00	4.73	3.08	0.00	3.08	0.00	0.87	0.10	0.01	0.99	0.00	10.00	0.00	0.	0.00
348	17.700	31.43	0.00	0.00	0.00	4.76	2.92	0.00	2.92	0.00	0.86	0.10	0.00	0.96	0.00	10.00	0.00	0.	0.00
349	17.600	31.41	0.00	0.00	0.00	4.78	2.78	0.00	2.78	0.00	0.85	0.10	0.00	0.94	0.00	10.00	0.00	0.	0.00
350	17.500	31.39	0.00	0.00	0.00	4.81	2.64	0.00	2.64	0.00	0.83	0.10	0.00	0.93	0.00	10.00	0.00	0.	0.00
351	17.400	31.36	0.00	0.00	0.00	4.84	2.50	0.00	2.50	0.00	0.82	0.10	0.00	0.92	0.00	10.00	0.00	0.	0.00
352	17.300	31.34	0.00	0.00	0.00	4.87	2.38	0.00	2.38	0.00	0.81	0.10	0.00	0.90	0.00	10.00	0.00	0.	0.00
353	17.200	31.32	0.00	0.00	0.00	4.89	2.26	0.00	2.26	0.00	0.79	0.10	0.00	0.89	0.00	10.00	0.00	0.	0.00
354	17.100	31.30	0.00	0.00	0.00	4.92	2.14	0.00	2.14	0.00	0.78	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
355	17.000	31.27	0.00	0.00	0.00	4.95	2.03	0.00	2.03	0.00	0.77	0.09	0.00	0.86	0.00	10.00	0.00	0.	0.00
356	16.900	31.25	0.00	0.00	0.00	4.98	1.93	0.00	1.93	0.00	0.76	0.09	0.00	0.85	0.00	10.00	0.00	0.	0.00
357	16.800	31.23	0.00	0.00	0.00	5.00	1.84	0.00	1.84	0.00	0.75	0.09	0.00	0.84	0.00	10.00	0.00	0.	0.00
358	16.700	31.20	0.00	0.00	0.00	5.03	1.74	0.00	1.74	0.00	0.73	0.09	0.00	0.82	0.00	10.00	0.00	0.	0.00
359	16.600	31.18	0.00	0.00	0.00	5.05	1.66	0.00	1.66	0.00	0.72	0.09	0.00	0.81	0.00	10.00	0.00	0.	0.00
360	16.500	31.16	0.00	0.00	0.00	5.08	1.57	0.00	1.57	0.00	0.71	0.09	0.00	0.80	0.00	10.00	0.00	0.	0.00
361	16.400	31.14	0.00	0.00	0.00	5.10	1.49	0.00	1.49	0.00	0.70	0.09	0.00	0.79	0.00	10.00	0.00	0.	0.00
362	16.300	31.11	0.00	0.00	0.00	5.12	1.42	0.00	1.42	0.00	0.69	0.09	0.00	0.77	0.00	10.00	0.00	0.	0.00
363	16.200	31.09	0.00	0.00	0.00	5.15	1.35	0.00	1.35	0.00	0.68	0.08	0.00	0.76	0.00	10.00	0.00	0.	0.00
364	16.100	31.07	0.00	0.00	0.00	5.17	1.28	0.00	1.28	0.00	0.67	0.08	0.00	0.75	0.00	10.00	0.00	0.	0.00
365	16.000	31.05	0.00	0.00	0.00	5.19	1.22	0.00	1.22	0.00	0.66	0.08	0.00	0.74	0.00	10.00	0.00	0.	0.00
366	15.900	31.02	0.00	0.00	0.00	5.21	1.16	0.00	1.16	0.00	0.65	0.08	0.00	0.73	0.00	10.00	0.00	0.	0.00
367	15.800	31.00	0.00	0.00	0.00	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.72	0.00	10.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 8 Peoples C. and L.P to N. Outlet Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
368	UPR RCH	0.11327	31.00	0.00	0.00	0.00	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.00	10.00	0.00	0.00
EACH	INCR	0.17084	31.13	0.00	0.00	0.00	5.00	9.30	0.00		1.30	0.10	0.04	0.00	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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
368	15.80	15.70	0.28411	0.0	0.00008	15.35	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
369	15.70	15.60	0.45496	0.0	0.00012	9.58	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
370	15.60	15.50	0.62580	0.0	0.00017	6.97	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
371	15.50	15.40	0.79665	0.0	0.00021	5.47	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
372	15.40	15.30	0.96749	0.0	0.00026	4.51	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
373	15.30	15.20	1.13834	0.0	0.00030	3.83	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000

374	15.20	15.10	1.30918	0.0	0.00035	3.33	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000									
375	15.10	15.00	1.48003	0.0	0.00039	2.95	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000									
376	15.00	14.90	1.65087	0.0	0.00044	2.64	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000									
TOT					54.63			3390847.00	1917900.00															
AVG				0.0002		1.77	2131.00				3767.61													
CUM					68.54																			

********** 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
368	15.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
369	15.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
370	15.500	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
371	15.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
372	15.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
373	15.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
374	15.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
375	15.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
376	14.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	0.60			0.02	0.00	0.10	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
368	15.700	31.00	0.00	0.00	0.00	7.00	2.65	0.00	2.65	0.00	0.75	0.08	0.00	0.83	0.00	10.00	0.00	0.	0.00
369	15.600	31.00	0.00	0.00	0.00	7.03	2.87	0.00	2.87	0.00	0.77	0.08	0.00	0.86	0.00	10.00	0.00	0.	0.00
370	15.500	31.00	0.00	0.00	0.00	7.03	2.93	0.00	2.93	0.00	0.78	0.09	0.00	0.87	0.00	10.00	0.00	0.	0.00
371	15.400	31.00	0.00	0.00	0.00	7.03	2.96	0.00	2.96	0.00	0.79	0.09	0.00	0.87	0.00	10.00	0.00	0.	0.00
372	15.300	31.00	0.00	0.00	0.00	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.87	0.00	10.00	0.00	0.	0.00
373	15.200	31.00	0.00	0.00	0.00	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
374	15.100	31.00	0.00	0.00	0.00	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
375	15.000	31.00	0.00	0.00	0.00	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
376	14.900	31.00	0.00	0.00	0.00	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 9 N. Outlet to L. Penchant W. Sid Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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 #/100mL	COLI	NCM
377	UPR RCH	1.65087	31.00	0.00	0.00	0.00	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.00	10.00	0.00	0.00
EACH	INCR	0.27598	31.13	0.00	0.00	0.00	5.00	9.30	0.00		2.80	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.12308																

********** 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
377	14.90	14.80	1.80378	0.0	0.00104	1.12	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001
378	14.80	14.70	1.95669	0.0	0.00113	1.03	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001
379	14.70	14.60	2.10959	0.0	0.00121	0.95	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001
380	14.60	14.50	2.26250	0.0	0.00130	0.89	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001
381	14.50	14.40	2.41541	0.0	0.00139	0.83	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001

382	14.40	14.30	2.56832	0.0	0.00148	0.78	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001
383	14.30	14.20	2.72122	0.0	0.00157	0.74	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
384	14.20	14.10	2.87413	0.0	0.00165	0.70	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
385	14.10	14.00	3.02704	0.0	0.00174	0.66	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
386	14.00	13.90	3.17995	0.0	0.00183	0.63	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
387	13.90	13.80	3.33285	0.0	0.00192	0.60	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
388	13.80	13.70	3.48576	0.0	0.00201	0.58	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
389	13.70	13.60	3.63867	0.0	0.00209	0.55	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002
TOT					10.07			2259327.00	1277900.00						
AVG					0.0015		1.77	983.00			1737.94				
CUM					78.61										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE **	PO4 SRCE **	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	0.00	0.00	0.00			0.00	0.00	0.00

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

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

ELEM NO.	ENDING DIST	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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
377	14.800	31.04	0.00	0.00	0.00	6.28	3.58	0.00	3.58	0.00	1.05	0.09	0.00	1.15	0.00	11.15	0.00	0.	0.00	
378	14.700	31.08	0.00	0.00	0.00	5.95	4.01	0.00	4.01	0.00	1.25	0.10	0.00	1.36	0.00	12.31	0.00	0.	0.00	
379	14.600	31.12	0.00	0.00	0.00	5.81	4.34	0.00	4.34	0.00	1.41	0.11	0.00	1.52	0.00	13.46	0.00	0.	0.00	
380	14.500	31.15	0.00	0.00	0.00	5.77	4.59	0.00	4.59	0.00	1.54	0.12	0.00	1.66	0.00	14.62	0.00	0.	0.00	
381	14.400	31.19	0.00	0.00	0.00	5.78	4.79	0.00	4.79	0.00	1.65	0.13	0.00	1.77	0.00	15.77	0.00	0.	0.00	
382	14.300	31.23	0.00	0.00	0.00	5.83	4.94	0.00	4.94	0.00	1.73	0.13	0.00	1.86	0.00	16.92	0.00	0.	0.00	
383	14.200	31.27	0.00	0.00	0.00	5.89	5.06	0.00	5.06	0.00	1.80	0.14	0.00	1.94	0.00	18.08	0.00	0.	0.00	
384	14.100	31.31	0.00	0.00	0.00	5.96	5.16	0.00	5.16	0.00	1.86	0.14	0.00	2.01	0.00	19.23	0.00	0.	0.00	
385	14.000	31.35	0.00	0.00	0.00	6.04	5.24	0.00	5.24	0.00	1.92	0.15	0.00	2.06	0.00	20.38	0.00	0.	0.00	
386	13.900	31.38	0.00	0.00	0.00	6.13	5.31	0.00	5.31	0.00	1.96	0.15	0.00	2.11	0.00	21.54	0.00	0.	0.00	
387	13.800	31.42	0.00	0.00	0.00	6.22	5.36	0.00	5.36	0.00	2.00	0.16	0.00	2.15	0.00	22.69	0.00	0.	0.00	
388	13.700	31.46	0.00	0.00	0.00	6.32	5.41	0.00	5.41	0.00	2.03	0.16	0.00	2.19	0.00	23.85	0.00	0.	0.00	
389	13.600	31.50	0.00	0.00	0.00	6.41	5.45	0.00	5.45	0.00	2.06	0.16	0.00	2.22	0.00	25.00	0.00	0.	0.00	

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 10 L. P. W. Side to L. P W. Outlet Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM	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

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NO.                 deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
 390  UPR RCH  3.63867  31.50   0.00    0.00    0.00  6.41  5.45  0.00  5.45  0.00  2.06  0.16  0.00  0.00 25.00   0.00   0.00
EACH  INCR     0.05556  31.13   0.00    0.00    0.00  5.00 10.00  0.00             1.30  0.10  0.04  0.00   0.00   0.00
EACH  INCR    -0.05556
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT   TIDAL  TIDAL  DISPRSN   MEAN
 NO.  DIST  DIST        EFF   VELO    TIME                        AREA   AREA   PRISM  VELO          VELO
      km    km       m³/s        m/s   days     m      m      m³      m²     m²      m³    m/s    m²/s   m/s
 390  13.60  13.50  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 391  13.50  13.40  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 392  13.40  13.30  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 393  13.30  13.20  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 394  13.20  13.10  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 395  13.10  13.00  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 396  13.00  12.90  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 397  12.90  12.80  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 398  12.80  12.70  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 TOT                                  0.75              235497.62  133200.00
 AVG                          0.0139          1.77  148.00                261.66
 CUM                                 79.36
************************************************ 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  1/da
 390  13.500 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.36 0.00  0.00 0.00 2.24 0.00  0.00  0.00  0.00
 391  13.400 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.36 0.00  0.00 0.00 2.36 0.00  0.00  0.00  0.00
 392  13.300 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.36 0.00  0.00 0.00 2.49 0.00  0.00  0.00  0.00
 393  13.200 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.36 0.00  0.00 0.00 2.61 0.00  0.00  0.00  0.00
 394  13.100 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.36 0.00  0.00 0.00 2.73 0.00  0.00  0.00  0.00
 395  13.000 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 2.85 0.00  0.00  0.00  0.00
 396  12.900 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 2.98 0.00  0.00  0.00  0.00
 397  12.800 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.10 0.00  0.00  0.00  0.00
 398  12.700 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.40  0.05 0.00  0.00  0.00 0.00  0.00 2.80            0.02 0.00  0.15 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
 390  13.500 31.50 0.00    0.00    0.00  6.29  5.48  0.00  5.48  0.00  2.04  0.16  0.00  2.20  0.00 26.44   0.00      0.   0.00
 391  13.400 31.50 0.00    0.00    0.00  6.19  5.51  0.00  5.51  0.00  2.03  0.16  0.00  2.19  0.00 27.89   0.00      0.   0.00
 392  13.300 31.50 0.00    0.00    0.00  6.10  5.54  0.00  5.54  0.00  2.01  0.16  0.00  2.17  0.00 29.33   0.00      0.   0.00
 393  13.200 31.50 0.00    0.00    0.00  6.02  5.57  0.00  5.57  0.00  2.00  0.16  0.00  2.15  0.00 30.78   0.00      0.   0.00
 394  13.100 31.50 0.00    0.00    0.00  5.96  5.59  0.00  5.59  0.00  1.98  0.15  0.00  2.14  0.00 32.22   0.00      0.   0.00
 395  13.000 31.50 0.00    0.00    0.00  5.91  5.62  0.00  5.62  0.00  1.97  0.15  0.00  2.12  0.00 33.67   0.00      0.   0.00
 396  12.900 31.50 0.00    0.00    0.00  5.88  5.65  0.00  5.65  0.00  1.96  0.15  0.00  2.11  0.00 35.11   0.00      0.   0.00
 397  12.800 31.50 0.00    0.00    0.00  5.85  5.67  0.00  5.67  0.00  1.94  0.15  0.00  2.09  0.00 36.56   0.00      0.   0.00
 398  12.700 31.50 0.00    0.00    0.00  5.84  5.70  0.00  5.70  0.00  1.93  0.15  0.00  2.08  0.00 38.00   0.00      0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 11    L. P W. Outlet to Superior Cana            Calibration Simulation for Lake Penchant and Bayou Penchant mode
************************************************************ REACH INPUTS ************************************************************
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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	CHL A #/100mL	COLI	NCM
399	UPR RCH	3.63867	31.50	0.00	0.00	0.00	5.84	5.70	0.00	5.70	0.00	1.93	0.15	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.02632	31.13	0.00	0.00	0.00	5.00	10.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.02632																

********** 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
399	12.70	12.60	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
400	12.60	12.50	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
401	12.50	12.40	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
402	12.40	12.30	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
403	12.30	12.20	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
404	12.20	12.10	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
405	12.10	12.00	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
406	12.00	11.90	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
407	11.90	11.80	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
408	11.80	11.70	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
409	11.70	11.60	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
410	11.60	11.50	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
411	11.50	11.40	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
412	11.40	11.30	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
413	11.30	11.20	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
414	11.20	11.10	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
415	11.10	11.00	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
416	11.00	10.90	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
417	10.90	10.80	3.63867	0.0	0.03374	0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.034
TOT					0.65				204911.17	115900.00					
AVG				0.0337			1.77	61.00			107.85				
CUM					80.01										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SETT *	BKGD DECAY 1/da	FULL SOD 1/da	CORR SOD 1/da	ORGN SOD *	ORGN DECAY 1/da	NH3 SETT *	NH3 DECAY **	DENIT SRCE **	PO4 RATE 1/da	ALG SRCE 1/da	MAC PROD 1/da	COLI PROD 1/da	NCM DECAY 1/da	NCM SETT 1/da
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		

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414  11.100 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
415  11.000 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
416  10.900 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
417  10.800 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.40  0.05 0.00  0.00  0.00 0.00  0.00 2.80          0.02 0.00  0.15 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
399  12.600 31.50 0.00    0.00    0.00  5.83  5.71  0.00  5.71  0.00  1.92  0.15  0.00  2.07  0.00 38.00  0.00     0.  0.00
400  12.500 31.50 0.00    0.00    0.00  5.82  5.73  0.00  5.73  0.00  1.91  0.15  0.00  2.06  0.00 38.00  0.00     0.  0.00
401  12.400 31.50 0.00    0.00    0.00  5.82  5.74  0.00  5.74  0.00  1.91  0.15  0.00  2.06  0.00 38.00  0.00     0.  0.00
402  12.300 31.50 0.00    0.00    0.00  5.81  5.76  0.00  5.76  0.00  1.90  0.15  0.00  2.05  0.00 38.00  0.00     0.  0.00
403  12.200 31.50 0.00    0.00    0.00  5.81  5.77  0.00  5.77  0.00  1.90  0.15  0.00  2.04  0.00 38.00  0.00     0.  0.00
404  12.100 31.50 0.00    0.00    0.00  5.80  5.78  0.00  5.78  0.00  1.89  0.15  0.00  2.04  0.00 38.00  0.00     0.  0.00
405  12.000 31.50 0.00    0.00    0.00  5.80  5.80  0.00  5.80  0.00  1.89  0.15  0.00  2.03  0.00 38.00  0.00     0.  0.00
406  11.900 31.50 0.00    0.00    0.00  5.79  5.81  0.00  5.81  0.00  1.88  0.15  0.00  2.03  0.00 38.00  0.00     0.  0.00
407  11.800 31.50 0.00    0.00    0.00  5.79  5.82  0.00  5.82  0.00  1.87  0.15  0.00  2.02  0.00 38.00  0.00     0.  0.00
408  11.700 31.50 0.00    0.00    0.00  5.78  5.84  0.00  5.84  0.00  1.87  0.15  0.00  2.01  0.00 38.00  0.00     0.  0.00
409  11.600 31.50 0.00    0.00    0.00  5.77  5.85  0.00  5.85  0.00  1.86  0.14  0.00  2.01  0.00 38.00  0.00     0.  0.00
410  11.500 31.50 0.00    0.00    0.00  5.77  5.86  0.00  5.86  0.00  1.86  0.14  0.00  2.00  0.00 38.00  0.00     0.  0.00
411  11.400 31.50 0.00    0.00    0.00  5.77  5.88  0.00  5.88  0.00  1.85  0.14  0.00  1.99  0.00 38.00  0.00     0.  0.00
412  11.300 31.50 0.00    0.00    0.00  5.76  5.89  0.00  5.89  0.00  1.85  0.14  0.00  1.99  0.00 38.00  0.00     0.  0.00
413  11.200 31.50 0.00    0.00    0.00  5.76  5.90  0.00  5.90  0.00  1.84  0.14  0.00  1.98  0.00 38.00  0.00     0.  0.00
414  11.100 31.50 0.00    0.00    0.00  5.75  5.91  0.00  5.91  0.00  1.83  0.14  0.00  1.98  0.00 38.00  0.00     0.  0.00
415  11.000 31.50 0.00    0.00    0.00  5.75  5.93  0.00  5.93  0.00  1.83  0.14  0.00  1.97  0.00 38.00  0.00     0.  0.00
416  10.900 31.50 0.00    0.00    0.00  5.74  5.94  0.00  5.94  0.00  1.82  0.14  0.00  1.97  0.00 38.00  0.00     0.  0.00
417  10.800 31.50 0.00    0.00    0.00  5.74  5.95  0.00  5.95  0.00  1.82  0.14  0.00  1.96  0.00 38.00  0.00     0.  0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 12    Superior Canal to un canal 1                Calibration Simulation for Lake Penchant and Bayou Penchant mode
************************************************************** REACH INPUTS **************************************************************
ELEM  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
NO.             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
418  UPR RCH  3.63867  31.50    0.00    0.00    0.00  5.74  5.95  0.00  5.95  0.00  1.82  0.14  0.00  0.00 38.00    0.00    0.00
EACH  INCR    0.03846  31.13    0.00    0.00    0.00  5.00 10.00  0.00            1.30  0.10  0.04  0.00    0.00    0.00
EACH  INCR    -0.03846
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING    FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT   TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST      EFF   VELO    TIME                        AREA   AREA    PRISM   VELO           VELO
      km     km      m³/s      m/s   days     m      m      m³      m²     m²      m³    m/s    m²/s   m/s
418  10.80  10.70  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
419  10.70  10.60  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
420  10.60  10.50  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
421  10.50  10.40  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
422  10.40  10.30  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
423  10.30  10.20  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
424  10.20  10.10  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
425  10.10  10.00  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
426  10.00   9.90  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
427   9.90   9.80  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
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 428   9.80   9.70   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 429   9.70   9.60   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 430   9.60   9.50   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 TOT                                  0.42            131227.19   93600.00
 AVG                          0.0360          1.40  72.00                 100.94
 CUM                                  80.43
********************************************** 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  1/da
418  10.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
419  10.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
420  10.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
421  10.400 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
422  10.300 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
423  10.200 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
424  10.100 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
425  10.000 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
426   9.900 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
427   9.800 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
428   9.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
429   9.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
430   9.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.50  0.05 0.00  0.00  0.00 0.00  0.00 2.80            0.02 0.00  0.15 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
418  10.700 31.50 0.00    0.00    0.00  5.71  5.98  0.00  5.98  0.00  1.81  0.14  0.00  1.95  0.00 38.00  0.00     0.  0.00
419  10.600 31.50 0.00    0.00    0.00  5.68  6.00  0.00  6.00  0.00  1.80  0.14  0.00  1.95  0.00 38.00  0.00     0.  0.00
420  10.500 31.50 0.00    0.00    0.00  5.66  6.03  0.00  6.03  0.00  1.80  0.14  0.00  1.94  0.00 38.00  0.00     0.  0.00
421  10.400 31.50 0.00    0.00    0.00  5.63  6.05  0.00  6.05  0.00  1.79  0.14  0.00  1.93  0.00 38.00  0.00     0.  0.00
422  10.300 31.50 0.00    0.00    0.00  5.61  6.08  0.00  6.08  0.00  1.79  0.14  0.00  1.92  0.00 38.00  0.00     0.  0.00
423  10.200 31.50 0.00    0.00    0.00  5.59  6.10  0.00  6.10  0.00  1.78  0.14  0.00  1.92  0.00 38.00  0.00     0.  0.00
424  10.100 31.50 0.00    0.00    0.00  5.57  6.13  0.00  6.13  0.00  1.77  0.14  0.00  1.91  0.00 38.00  0.00     0.  0.00
425  10.000 31.50 0.00    0.00    0.00  5.54  6.15  0.00  6.15  0.00  1.77  0.14  0.00  1.90  0.00 38.00  0.00     0.  0.00
426   9.900 31.50 0.00    0.00    0.00  5.52  6.17  0.00  6.17  0.00  1.76  0.14  0.00  1.90  0.00 38.00  0.00     0.  0.00
427   9.800 31.50 0.00    0.00    0.00  5.50  6.20  0.00  6.20  0.00  1.75  0.14  0.00  1.89  0.00 38.00  0.00     0.  0.00
428   9.700 31.50 0.00    0.00    0.00  5.48  6.22  0.00  6.22  0.00  1.75  0.14  0.00  1.88  0.00 38.00  0.00     0.  0.00
429   9.600 31.50 0.00    0.00    0.00  5.46  6.25  0.00  6.25  0.00  1.74  0.13  0.00  1.88  0.00 38.00  0.00     0.  0.00
430   9.500 31.50 0.00    0.00    0.00  5.41  6.33  0.00  6.33  0.00  1.78  0.13  0.00  1.91  0.00 38.00  0.00     0.  0.00
FINAL REPORT    Station 935                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 13    unnamed canal to Brady C/Weir 2          Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS **********************************************************
ELEM  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
NO.             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
431  UPR RCH  3.63867  31.50    0.00    0.00    0.00  5.41  6.33  0.00  6.33  0.00  1.78  0.13  0.00  0.00 38.00    0.00    0.00
431  WSTLD    3.02992  31.50    0.00    0.00    0.00  3.70 10.00  0.00 10.00  0.00  4.00  0.05  0.00  0.00  0.00    0.00    0.00
********************************************************* HYDRAULIC PARAMETER VALUES *********************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
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 NO.   DIST   DIST          EFF    VELO     TIME                        AREA   AREA    PRISM   VELO          VELO
       km     km      m³/s          m/s    days     m      m      m³       m²     m²      m³     m/s    m²/s    m/s
 431   9.50   9.40   6.66859  45.4  0.06606    0.02   1.40   72.00  10094.40   7200.00  100.94    0.00  0.000    0.100  0.066
 432   9.40   9.30   6.66859  45.4  0.06606    0.02   1.40   72.00  10094.40   7200.00  100.94    0.00  0.000    0.100  0.066
 TOT                                  0.04              20188.80   14400.00
 AVG                          0.0661          1.40   72.00                 100.94
 CUM                                 80.47
********************************************** 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   1/da
431   9.400  7.37   0.75   0.08  0.00   0.00   0.00  0.00   0.00  3.09  3.09  3.09   0.03  0.00   0.34  0.00   0.00  0.00  3.22  0.00   0.00   0.00   0.00
432   9.300  7.37   0.75   0.08  0.00   0.00   0.00  0.00   0.00  3.09  3.09  3.09   0.03  0.00   0.34  0.00   0.00  0.00  3.22  0.00   0.00   0.00   0.00
AVG 20 DEG C RATE    0.61   0.05  0.00   0.00   0.00  0.00   0.00  1.50              0.02  0.00   0.15  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
431   9.400  31.50  0.00    0.00    0.00  4.69   7.95   0.00   7.95   0.00   2.76   0.10   0.00   2.86   0.00  38.00   0.00      0.   0.00
432   9.300  31.50  0.00    0.00    0.00  4.73   7.94   0.00   7.94   0.00   2.76   0.10   0.00   2.86   0.00  38.00   0.00      0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 14    Brady C/Weir 2 to Km#                     Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS **********************************************************
ELEM  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
NO.                deg C    ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
 433  UPR RCH   6.66859  31.50    0.00    0.00    0.00  4.73   7.94   0.00   7.94   0.00   2.76   0.10   0.00   0.00  38.00    0.00   0.00
EACH  INCR     0.00212  31.13    0.00    0.00    0.00  5.00  10.00   0.00              0.85   0.10   0.04   0.00    0.00   0.00
 433  WSTLD   -3.19980  31.57    0.00    0.00    0.00  4.76   7.93   0.00   7.93   0.00   2.76   0.10   0.00   0.00  38.00    0.00   0.00
***************************************************** HYDRAULIC PARAMETER VALUES *****************************************************
ELEM  BEGIN  ENDING     FLOW   PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
 NO.   DIST   DIST          EFF    VELO     TIME                        AREA   AREA    PRISM   VELO          VELO
       km     km      m³/s          m/s    days     m      m      m³       m²     m²      m³     m/s    m²/s    m/s
 433   9.30   9.20   3.47091  45.4  0.03537    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 434   9.20   9.10   3.47304  45.4  0.03539    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 435   9.10   9.00   3.47516  45.4  0.03541    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 436   9.00   8.90   3.47729  45.3  0.03543    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 437   8.90   8.80   3.47941  45.3  0.03545    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 438   8.80   8.70   3.48154  45.3  0.03548    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 439   8.70   8.60   3.48366  45.3  0.03550    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 440   8.60   8.50   3.48579  45.2  0.03552    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 441   8.50   8.40   3.48791  45.2  0.03554    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 442   8.40   8.30   3.49004  45.2  0.03556    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 443   8.30   8.20   3.49216  45.1  0.03558    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 444   8.20   8.10   3.49429  45.1  0.03561    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 TOT                                  0.39            117768.00   84000.00
 AVG                          0.0355          1.40   70.00                  98.14
 CUM                                 80.86
********************************************** 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
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	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			
433	9.200	7.36	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.03	0.00	0.34	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
434	9.100	7.35	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.03	0.00	0.34	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
435	9.000	7.34	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.03	0.00	0.35	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
436	8.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.35	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
437	8.800	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.35	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
438	8.700	7.32	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.35	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
439	8.600	7.31	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.36	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
440	8.500	7.30	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.36	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
441	8.400	7.29	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.36	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
442	8.300	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
443	8.200	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
444	8.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN µg/L	PHOS g/m³	CHL A	MACRO #/100mL	COLI	NCM
433	9.200	31.57	0.00	0.00	0.00	4.76	7.93	0.00	7.93	0.00	2.76	0.10	0.00	2.86	0.00	38.00	0.00	0.	0.00
434	9.100	31.63	0.00	0.00	0.00	4.82	7.91	0.00	7.91	0.00	2.76	0.10	0.00	2.86	0.00	38.00	0.00	0.	0.00
435	9.000	31.70	0.00	0.00	0.00	4.87	7.88	0.00	7.88	0.00	2.75	0.10	0.00	2.85	0.00	38.00	0.00	0.	0.00
436	8.900	31.77	0.00	0.00	0.00	4.93	7.86	0.00	7.86	0.00	2.75	0.10	0.00	2.85	0.00	38.00	0.00	0.	0.00
437	8.800	31.83	0.00	0.00	0.00	4.98	7.84	0.00	7.84	0.00	2.75	0.10	0.00	2.85	0.00	38.00	0.00	0.	0.00
438	8.700	31.90	0.00	0.00	0.00	5.03	7.82	0.00	7.82	0.00	2.74	0.10	0.00	2.85	0.00	38.00	0.00	0.	0.00
439	8.600	31.97	0.00	0.00	0.00	5.09	7.80	0.00	7.80	0.00	2.74	0.10	0.00	2.84	0.00	38.00	0.00	0.	0.00
440	8.500	32.03	0.00	0.00	0.00	5.14	7.78	0.00	7.78	0.00	2.74	0.11	0.00	2.84	0.00	38.00	0.00	0.	0.00
441	8.400	32.10	0.00	0.00	0.00	5.18	7.76	0.00	7.76	0.00	2.73	0.11	0.00	2.84	0.00	38.00	0.00	0.	0.00
442	8.300	32.17	0.00	0.00	0.00	5.23	7.74	0.00	7.74	0.00	2.73	0.11	0.00	2.84	0.00	38.00	0.00	0.	0.00
443	8.200	32.23	0.00	0.00	0.00	5.28	7.72	0.00	7.72	0.00	2.73	0.11	0.00	2.83	0.00	38.00	0.00	0.	0.00
444	8.100	32.30	0.00	0.00	0.00	5.32	7.70	0.00	7.70	0.00	2.72	0.11	0.00	2.83	0.00	38.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 15 Km# to Pipeline Canal Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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 #/100mL	COLI	NCM
445	UPR RCH	3.49429	32.30	0.00	0.00	0.00	5.32	7.70	0.00	7.70	0.00	2.72	0.11	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.00279	31.13	0.00	0.00	0.00	5.00	10.00	0.00			0.85	0.10	0.04	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	PRISM m³	VELO m/s	TIDAL VELO m²/s	TIDAL VELO m/s	DISPRSN	MEAN
445	8.10	8.00	3.49708	45.1	0.03837	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.038		
446	8.00	7.90	3.49988	45.0	0.03841	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.038		
447	7.90	7.80	3.50267	45.0	0.03844	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.038		
448	7.80	7.70	3.50546	45.0	0.03847	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.038		
449	7.70	7.60	3.50825	44.9	0.03850	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.038		
450	7.60	7.50	3.51105	44.9	0.03853	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039		
451	7.50	7.40	3.51384	44.9	0.03856	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039		
452	7.40	7.30	3.51663	44.8	0.03859	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039		
453	7.30	7.20	3.51943	44.8	0.03862	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039		

454	7.20	7.10	3.52222	44.8	0.03865	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
455	7.10	7.00	3.52501	44.7	0.03868	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
456	7.00	6.90	3.52781	44.7	0.03871	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
457	6.90	6.80	3.53060	44.7	0.03874	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
458	6.80	6.70	3.53339	44.6	0.03877	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
459	6.70	6.60	3.53619	44.6	0.03880	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
460	6.60	6.50	3.53898	44.5	0.03883	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
461	6.50	6.40	3.54177	44.5	0.03887	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
462	6.40	6.30	3.54456	44.5	0.03890	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
463	6.30	6.20	3.54736	44.4	0.03893	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
464	6.20	6.10	3.55015	44.4	0.03896	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
465	6.10	6.00	3.55294	44.4	0.03899	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
466	6.00	5.90	3.55574	44.3	0.03902	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
467	5.90	5.80	3.55853	44.3	0.03905	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
468	5.80	5.70	3.56132	44.3	0.03908	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
469	5.70	5.60	3.56412	44.2	0.03911	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
470	5.60	5.50	3.56691	44.2	0.03914	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
471	5.50	5.40	3.56970	44.2	0.03917	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
472	5.40	5.30	3.57250	44.1	0.03920	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
473	5.30	5.20	3.57529	44.1	0.03923	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
474	5.20	5.10	3.57808	44.1	0.03926	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
475	5.10	5.00	3.58087	44.0	0.03929	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
476	5.00	4.90	3.58367	44.0	0.03932	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
477	4.90	4.80	3.58646	44.0	0.03936	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
478	4.80	4.70	3.58925	43.9	0.03939	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
479	4.70	4.60	3.59205	43.9	0.03942	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
480	4.60	4.50	3.59484	43.9	0.03945	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
481	4.50	4.40	3.59763	43.8	0.03948	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
482	4.40	4.30	3.60043	43.8	0.03951	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
483	4.30	4.20	3.60322	43.8	0.03954	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
484	4.20	4.10	3.60601	43.7	0.03957	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
485	4.10	4.00	3.60881	43.7	0.03960	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
486	4.00	3.90	3.61160	43.7	0.03963	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
487	3.90	3.80	3.61439	43.6	0.03966	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
488	3.80	3.70	3.61718	43.6	0.03969	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
489	3.70	3.60	3.61998	43.6	0.03972	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
490	3.60	3.50	3.62277	43.5	0.03975	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
491	3.50	3.40	3.62556	43.5	0.03978	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
492	3.40	3.30	3.62836	43.5	0.03982	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
493	3.30	3.20	3.63115	43.4	0.03985	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
494	3.20	3.10	3.63394	43.4	0.03988	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
495	3.10	3.00	3.63674	43.4	0.03991	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
496	3.00	2.90	3.63953	43.3	0.03994	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
497	2.90	2.80	3.64232	43.3	0.03997	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
498	2.80	2.70	3.64512	43.3	0.04000	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
499	2.70	2.60	3.64791	43.2	0.04003	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
500	2.60	2.50	3.65070	43.2	0.04006	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
501	2.50	2.40	3.65349	43.2	0.04009	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
502	2.40	2.30	3.65629	43.1	0.04012	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
503	2.30	2.20	3.65908	43.1	0.04015	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040

504	2.20	2.10	3.66187	43.1	0.04018	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
505	2.10	2.00	3.66467	43.0	0.04021	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
506	2.00	1.90	3.66746	43.0	0.04024	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
507	1.90	1.80	3.67025	43.0	0.04027	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
508	1.80	1.70	3.67305	42.9	0.04031	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
509	1.70	1.60	3.67584	42.9	0.04034	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
510	1.60	1.50	3.67863	42.9	0.04037	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
511	1.50	1.40	3.68143	42.8	0.04040	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
512	1.40	1.30	3.68422	42.8	0.04043	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
513	1.30	1.20	3.68701	42.8	0.04046	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
514	1.20	1.10	3.68980	42.7	0.04049	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
515	1.10	1.00	3.69260	42.7	0.04052	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
516	1.00	0.90	3.69539	42.7	0.04055	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
517	0.90	0.80	3.69818	42.6	0.04058	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
TOT					2.14			665249.00	474500.00						
AVG				0.0395			1.40	65.00			91.13				
CUM					83.00										

********** 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		
445	8.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	
446	7.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	
447	7.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	
448	7.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	
449	7.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00	
450	7.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00	
451	7.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00	
452	7.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00	
453	7.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00	
454	7.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00	
455	7.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	
456	6.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00	
457	6.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
458	6.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	
459	6.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00	
460	6.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
461	6.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00	
462	6.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00	
463	6.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00	
464	6.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00	
465	6.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00	
466	5.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00	
467	5.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00	
468	5.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00	
469	5.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00	
470	5.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00	
471	5.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	
472	5.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00	
473	5.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00	

474	5.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
475	5.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
476	4.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
477	4.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
478	4.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00
516	0.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A	MACRO #/100mL	COLI	NCM
445	8.000	32.30	0.00	0.00	0.00	5.36	7.68	0.00	7.68	0.00	2.72	0.11	0.00	2.83	0.00	37.89	0.00	0.	0.00

446	7.900	32.30	0.00	0.00	0.00	5.40	7.66	0.00	7.66	0.00	2.72	0.11	0.00	2.83	0.00	37.78	0.00	0.	0.00
447	7.800	32.30	0.00	0.00	0.00	5.44	7.64	0.00	7.64	0.00	2.71	0.11	0.00	2.82	0.00	37.67	0.00	0.	0.00
448	7.700	32.30	0.00	0.00	0.00	5.48	7.62	0.00	7.62	0.00	2.71	0.11	0.00	2.82	0.00	37.56	0.00	0.	0.00
449	7.600	32.30	0.00	0.00	0.00	5.51	7.61	0.00	7.61	0.00	2.70	0.11	0.00	2.82	0.00	37.45	0.00	0.	0.00
450	7.500	32.30	0.00	0.00	0.00	5.55	7.59	0.00	7.59	0.00	2.70	0.11	0.00	2.82	0.00	37.34	0.00	0.	0.00
451	7.400	32.30	0.00	0.00	0.00	5.58	7.57	0.00	7.57	0.00	2.70	0.12	0.00	2.81	0.00	37.23	0.00	0.	0.00
452	7.300	32.30	0.00	0.00	0.00	5.62	7.55	0.00	7.55	0.00	2.69	0.12	0.00	2.81	0.00	37.12	0.00	0.	0.00
453	7.200	32.30	0.00	0.00	0.00	5.65	7.53	0.00	7.53	0.00	2.69	0.12	0.00	2.81	0.00	37.01	0.00	0.	0.00
454	7.100	32.30	0.00	0.00	0.00	5.68	7.52	0.00	7.52	0.00	2.69	0.12	0.00	2.80	0.00	36.90	0.00	0.	0.00
455	7.000	32.30	0.00	0.00	0.00	5.71	7.50	0.00	7.50	0.00	2.68	0.12	0.00	2.80	0.00	36.79	0.00	0.	0.00
456	6.900	32.30	0.00	0.00	0.00	5.74	7.48	0.00	7.48	0.00	2.68	0.12	0.00	2.80	0.00	36.68	0.00	0.	0.00
457	6.800	32.30	0.00	0.00	0.00	5.77	7.46	0.00	7.46	0.00	2.68	0.12	0.00	2.80	0.00	36.58	0.00	0.	0.00
458	6.700	32.30	0.00	0.00	0.00	5.80	7.45	0.00	7.45	0.00	2.67	0.12	0.00	2.79	0.00	36.47	0.00	0.	0.00
459	6.600	32.30	0.00	0.00	0.00	5.82	7.43	0.00	7.43	0.00	2.67	0.12	0.00	2.79	0.00	36.36	0.00	0.	0.00
460	6.500	32.30	0.00	0.00	0.00	5.85	7.41	0.00	7.41	0.00	2.67	0.12	0.00	2.79	0.00	36.25	0.00	0.	0.00
461	6.400	32.30	0.00	0.00	0.00	5.87	7.39	0.00	7.39	0.00	2.66	0.12	0.00	2.78	0.00	36.14	0.00	0.	0.00
462	6.300	32.30	0.00	0.00	0.00	5.90	7.38	0.00	7.38	0.00	2.66	0.12	0.00	2.78	0.00	36.03	0.00	0.	0.00
463	6.200	32.30	0.00	0.00	0.00	5.92	7.36	0.00	7.36	0.00	2.66	0.12	0.00	2.78	0.00	35.92	0.00	0.	0.00
464	6.100	32.30	0.00	0.00	0.00	5.95	7.34	0.00	7.34	0.00	2.65	0.12	0.00	2.78	0.00	35.81	0.00	0.	0.00
465	6.000	32.30	0.00	0.00	0.00	5.97	7.33	0.00	7.33	0.00	2.65	0.12	0.00	2.77	0.00	35.70	0.00	0.	0.00
466	5.900	32.30	0.00	0.00	0.00	5.99	7.31	0.00	7.31	0.00	2.65	0.13	0.00	2.77	0.00	35.59	0.00	0.	0.00
467	5.800	32.30	0.00	0.00	0.00	6.01	7.29	0.00	7.29	0.00	2.64	0.13	0.00	2.77	0.00	35.48	0.00	0.	0.00
468	5.700	32.30	0.00	0.00	0.00	6.03	7.27	0.00	7.27	0.00	2.64	0.13	0.00	2.76	0.00	35.37	0.00	0.	0.00
469	5.600	32.30	0.00	0.00	0.00	6.05	7.26	0.00	7.26	0.00	2.64	0.13	0.00	2.76	0.00	35.26	0.00	0.	0.00
470	5.500	32.30	0.00	0.00	0.00	6.07	7.24	0.00	7.24	0.00	2.63	0.13	0.00	2.76	0.00	35.15	0.00	0.	0.00
471	5.400	32.30	0.00	0.00	0.00	6.09	7.22	0.00	7.22	0.00	2.63	0.13	0.00	2.76	0.00	35.04	0.00	0.	0.00
472	5.300	32.30	0.00	0.00	0.00	6.11	7.21	0.00	7.21	0.00	2.62	0.13	0.00	2.75	0.00	34.93	0.00	0.	0.00
473	5.200	32.30	0.00	0.00	0.00	6.12	7.19	0.00	7.19	0.00	2.62	0.13	0.00	2.75	0.00	34.82	0.00	0.	0.00
474	5.100	32.30	0.00	0.00	0.00	6.14	7.18	0.00	7.18	0.00	2.62	0.13	0.00	2.75	0.00	34.71	0.00	0.	0.00
475	5.000	32.30	0.00	0.00	0.00	6.16	7.16	0.00	7.16	0.00	2.61	0.13	0.00	2.74	0.00	34.60	0.00	0.	0.00
476	4.900	32.30	0.00	0.00	0.00	6.17	7.14	0.00	7.14	0.00	2.61	0.13	0.00	2.74	0.00	34.49	0.00	0.	0.00
477	4.800	32.30	0.00	0.00	0.00	6.19	7.13	0.00	7.13	0.00	2.61	0.13	0.00	2.74	0.00	34.38	0.00	0.	0.00
478	4.700	32.30	0.00	0.00	0.00	6.20	7.11	0.00	7.11	0.00	2.60	0.13	0.00	2.74	0.00	34.27	0.00	0.	0.00
479	4.600	32.30	0.00	0.00	0.00	6.21	7.09	0.00	7.09	0.00	2.60	0.13	0.00	2.73	0.00	34.16	0.00	0.	0.00
480	4.500	32.30	0.00	0.00	0.00	6.23	7.08	0.00	7.08	0.00	2.60	0.13	0.00	2.73	0.00	34.05	0.00	0.	0.00
481	4.400	32.30	0.00	0.00	0.00	6.24	7.06	0.00	7.06	0.00	2.59	0.13	0.00	2.73	0.00	33.95	0.00	0.	0.00
482	4.300	32.30	0.00	0.00	0.00	6.25	7.05	0.00	7.05	0.00	2.59	0.13	0.00	2.72	0.00	33.84	0.00	0.	0.00
483	4.200	32.30	0.00	0.00	0.00	6.26	7.03	0.00	7.03	0.00	2.59	0.13	0.00	2.72	0.00	33.73	0.00	0.	0.00
484	4.100	32.30	0.00	0.00	0.00	6.28	7.01	0.00	7.01	0.00	2.59	0.13	0.00	2.72	0.00	33.62	0.00	0.	0.00
485	4.000	32.30	0.00	0.00	0.00	6.29	7.00	0.00	7.00	0.00	2.58	0.13	0.00	2.72	0.00	33.51	0.00	0.	0.00
486	3.900	32.30	0.00	0.00	0.00	6.30	6.98	0.00	6.98	0.00	2.58	0.13	0.00	2.71	0.00	33.40	0.00	0.	0.00
487	3.800	32.30	0.00	0.00	0.00	6.31	6.97	0.00	6.97	0.00	2.58	0.13	0.00	2.71	0.00	33.29	0.00	0.	0.00
488	3.700	32.30	0.00	0.00	0.00	6.32	6.95	0.00	6.95	0.00	2.57	0.14	0.00	2.71	0.00	33.18	0.00	0.	0.00
489	3.600	32.30	0.00	0.00	0.00	6.32	6.94	0.00	6.94	0.00	2.57	0.14	0.00	2.70	0.00	33.07	0.00	0.	0.00
490	3.500	32.30	0.00	0.00	0.00	6.33	6.92	0.00	6.92	0.00	2.57	0.14	0.00	2.70	0.00	32.96	0.00	0.	0.00
491	3.400	32.30	0.00	0.00	0.00	6.34	6.91	0.00	6.91	0.00	2.56	0.14	0.00	2.70	0.00	32.85	0.00	0.	0.00
492	3.300	32.30	0.00	0.00	0.00	6.35	6.89	0.00	6.89	0.00	2.56	0.14	0.00	2.70	0.00	32.74	0.00	0.	0.00
493	3.200	32.30	0.00	0.00	0.00	6.36	6.88	0.00	6.88	0.00	2.56	0.14	0.00	2.69	0.00	32.63	0.00	0.	0.00
494	3.100	32.30	0.00	0.00	0.00	6.36	6.86	0.00	6.86	0.00	2.55	0.14	0.00	2.69	0.00	32.52	0.00	0.	0.00
495	3.000	32.30	0.00	0.00	0.00	6.37	6.85	0.00	6.85	0.00	2.55	0.14	0.00	2.69	0.00	32.41	0.00	0.	0.00

496	2.900	32.30	0.00	0.00	0.00	6.38	6.83	0.00	6.83	0.00	2.55	0.14	0.00	2.68	0.00	32.30	0.00	0.	0.00
497	2.800	32.30	0.00	0.00	0.00	6.38	6.82	0.00	6.82	0.00	2.54	0.14	0.00	2.68	0.00	32.19	0.00	0.	0.00
498	2.700	32.30	0.00	0.00	0.00	6.39	6.80	0.00	6.80	0.00	2.54	0.14	0.00	2.68	0.00	32.08	0.00	0.	0.00
499	2.600	32.30	0.00	0.00	0.00	6.39	6.79	0.00	6.79	0.00	2.54	0.14	0.00	2.68	0.00	31.97	0.00	0.	0.00
500	2.500	32.30	0.00	0.00	0.00	6.40	6.77	0.00	6.77	0.00	2.53	0.14	0.00	2.67	0.00	31.86	0.00	0.	0.00
501	2.400	32.30	0.00	0.00	0.00	6.40	6.76	0.00	6.76	0.00	2.53	0.14	0.00	2.67	0.00	31.75	0.00	0.	0.00
502	2.300	32.30	0.00	0.00	0.00	6.40	6.74	0.00	6.74	0.00	2.53	0.14	0.00	2.67	0.00	31.64	0.00	0.	0.00
503	2.200	32.30	0.00	0.00	0.00	6.41	6.73	0.00	6.73	0.00	2.52	0.14	0.00	2.66	0.00	31.53	0.00	0.	0.00
504	2.100	32.30	0.00	0.00	0.00	6.41	6.71	0.00	6.71	0.00	2.52	0.14	0.00	2.66	0.00	31.42	0.00	0.	0.00
505	2.000	32.30	0.00	0.00	0.00	6.42	6.70	0.00	6.70	0.00	2.52	0.14	0.00	2.66	0.00	31.32	0.00	0.	0.00
506	1.900	32.30	0.00	0.00	0.00	6.42	6.68	0.00	6.68	0.00	2.51	0.14	0.00	2.66	0.00	31.21	0.00	0.	0.00
507	1.800	32.30	0.00	0.00	0.00	6.42	6.67	0.00	6.67	0.00	2.51	0.14	0.00	2.65	0.00	31.10	0.00	0.	0.00
508	1.700	32.30	0.00	0.00	0.00	6.42	6.66	0.00	6.66	0.00	2.51	0.14	0.00	2.65	0.00	30.99	0.00	0.	0.00
509	1.600	32.30	0.00	0.00	0.00	6.42	6.64	0.00	6.64	0.00	2.51	0.14	0.00	2.65	0.00	30.88	0.00	0.	0.00
510	1.500	32.30	0.00	0.00	0.00	6.43	6.63	0.00	6.63	0.00	2.50	0.14	0.00	2.64	0.00	30.77	0.00	0.	0.00
511	1.400	32.30	0.00	0.00	0.00	6.43	6.61	0.00	6.61	0.00	2.50	0.14	0.00	2.64	0.00	30.66	0.00	0.	0.00
512	1.300	32.30	0.00	0.00	0.00	6.43	6.60	0.00	6.60	0.00	2.50	0.14	0.00	2.64	0.00	30.55	0.00	0.	0.00
513	1.200	32.30	0.00	0.00	0.00	6.43	6.59	0.00	6.59	0.00	2.49	0.14	0.00	2.64	0.00	30.44	0.00	0.	0.00
514	1.100	32.30	0.00	0.00	0.00	6.43	6.57	0.00	6.57	0.00	2.49	0.14	0.00	2.63	0.00	30.33	0.00	0.	0.00
515	1.000	32.30	0.00	0.00	0.00	6.43	6.56	0.00	6.56	0.00	2.49	0.14	0.00	2.63	0.00	30.22	0.00	0.	0.00
516	0.900	32.30	0.00	0.00	0.00	6.43	6.54	0.00	6.54	0.00	2.48	0.14	0.00	2.63	0.00	30.11	0.00	0.	0.00
517	0.800	32.30	0.00	0.00	0.00	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	2.62	0.00	30.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 16 Pipeline Canal to Corasaw conf. Calibration Simulation for Lake Penchant and Bayou Penchant mode

********** 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
518	UPR RCH	3.69818	32.30	0.00	0.00	0.00	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	0.00	30.00	0.00	0.00
EACH	INCR	0.00319	31.13	0.00	0.00	0.00	5.00	10.00	0.00			0.85	0.10	0.04	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
518	0.80	0.70	3.70137	42.6	0.04062		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
519	0.70	0.60	3.70456	42.6	0.04065		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
520	0.60	0.50	3.70775	42.5	0.04069		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
521	0.50	0.40	3.71093	42.5	0.04072		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
522	0.40	0.30	3.71412	42.4	0.04076		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
523	0.30	0.20	3.71731	42.4	0.04079		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
524	0.20	0.10	3.72050	42.4	0.04083		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
525	0.10	0.00	3.72368	42.3	0.04086		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
TOT					0.23			72904.00	52000.00						
AVG				0.0407			1.40	65.00			91.13				
CUM					83.23										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	SOD *	SOD *	SOD *	BKGD DECAY 1/da	FULL SETT 1/da	CORR DECAY 1/da	ORGN SRCE *	ORGN RATE **	NH3 SRCE **	NH3 PROD 1/da	NH3 PROD 1/da	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
518	0.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00				
519	0.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00				

520	0.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
521	0.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
522	0.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
523	0.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
524	0.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
525	0.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
518	0.700	32.30	0.00	0.00	0.00	6.43	6.52	0.00	6.52	0.00	2.48	0.14	0.00	2.62	0.00	29.25	0.00	0.	0.00
519	0.600	32.30	0.00	0.00	0.00	6.42	6.50	0.00	6.50	0.00	2.47	0.14	0.00	2.62	0.00	28.50	0.00	0.	0.00
520	0.500	32.30	0.00	0.00	0.00	6.42	6.49	0.00	6.49	0.00	2.47	0.14	0.00	2.62	0.00	27.75	0.00	0.	0.00
521	0.400	32.30	0.00	0.00	0.00	6.41	6.48	0.00	6.48	0.00	2.47	0.14	0.00	2.61	0.00	27.00	0.00	0.	0.00
522	0.300	32.30	0.00	0.00	0.00	6.40	6.46	0.00	6.46	0.00	2.47	0.14	0.00	2.61	0.00	26.25	0.00	0.	0.00
523	0.200	32.30	0.00	0.00	0.00	6.39	6.45	0.00	6.45	0.00	2.46	0.14	0.00	2.61	0.00	25.50	0.00	0.	0.00
524	0.100	32.30	0.00	0.00	0.00	6.38	6.44	0.00	6.44	0.00	2.46	0.14	0.00	2.60	0.00	24.75	0.00	0.	0.00
525	0.000	32.30	0.00	0.00	0.00	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	2.58	0.00	24.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Station 935 Calibration Simulation for Lake Penchant and Bayou Penchant mode

TRAVEL TIME = 83.23 DAYS
MAXIMUM EFFLUENT = 45.44 PERCENT
FLOW = 0.11327 TO 6.66859 m³/s
DISPERSION = 0.0000 TO 0.3000 m²/s
VELOCITY = 0.00008 TO 0.06606 m/s
DEPTH = 1.40 TO 1.77 m
WIDTH = 35.00 TO ****** m
BOD DECAY = 0.08 TO 0.09 per day
NH3 DECAY = 0.22 TO 0.38 per day
SOD = 1.20 TO 5.78 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.48 TO 0.75 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 = 31.00 TO 32.30 deg C
DISSOLVED OXYGEN = 4.69 TO 7.03 mg/L

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Calibration Simulation for Lake Penchant and Bayou Penchant mode
REACH SUMMARY REPORT FOR Bayou Chene

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	Bayou Chene to Blackbird Bayou	35.10	31.80	3.30	0.17	30.46734	0.22640	1.000	135.00	1075.802	0.743	3.281	442.93
2	Blackbird Bayou to 120401-G	31.80	19.10	12.70	0.53	30.26726	0.27606	1.000	110.00	1068.737	0.906	3.281	360.91
3	120401-G to Turtle Bayou	19.10	13.90	5.20	0.42	22.76151	0.14366	1.768	90.00	803.709	0.471	5.801	295.29
4	Turtle Bayou to Carenero Bayou	13.90	9.90	4.00	0.51	24.82690	0.09095	1.768	155.00	876.638	0.298	5.801	508.55
5	Carenero Bayou to un canal 2	9.90	3.60	6.30	2.15	5.28639	0.03384	1.768	90.00	186.662	0.111	5.801	295.29
6	un canal 2 to Corasaw conf.	3.60	0.60	3.00	1.30	5.08639	0.02665	1.768	110.00	179.600	0.087	5.801	360.91

17 Corasaw conf. to 120401-C 0.60 0.00 0.60 0.10 8.81007 0.07141 1.402 88.00 311.084 0.234 4.600 288.73

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

Calibration Simulation for Lake Penchant and Bayou Penchant mode

REACH SUMMARY REPORT FOR Station 935

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
7	935 to Peoples Canal and L.P	18.00	15.80	2.20	13.91	0.11327	0.00183	1.768	35.00	4.000	0.006	5.801	114.83
8	Peoples C. and L.P to N. Outlet	15.80	14.90	0.90	54.63	1.65087	0.00019	1.768	2131.00	58.292	0.001	5.801	6991.81
9	N. Outlet to L. Penchant W. Sid	14.90	13.60	1.30	10.07	3.63867	0.00149	1.768	983.00	128.481	0.005	5.801	3225.22
10	L. P. W. Side to L. P W. Outlet	13.60	12.70	0.90	0.75	3.63867	0.01391	1.768	148.00	128.481	0.046	5.801	485.59
11	L. P W. Outlet to Superior Cana	12.70	10.80	1.90	0.65	3.63867	0.03374	1.768	61.00	128.481	0.111	5.801	200.14
12	Superior Canal to un canal 1	10.80	9.50	1.30	0.42	3.63867	0.03605	1.402	72.00	128.481	0.118	4.600	236.23
13	unnamed canal to Brady C/Weir 2	9.50	9.30	0.20	0.04	6.66859	0.06606	1.402	72.00	235.468	0.217	4.600	236.23
14	Brady C/Weir 2 to Km#	9.30	8.10	1.20	0.39	3.49429	0.03549	1.402	70.00	123.383	0.116	4.600	229.67
15	Km# to Pipeline Canal	8.10	0.80	7.30	2.14	3.69818	0.03947	1.402	65.00	130.583	0.129	4.600	213.26
16	Pipeline Canal to Corasaw conf.	0.80	0.00	0.80	0.23	3.72368	0.04074	1.402	65.00	131.483	0.134	4.600	213.26

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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
1	16428.	0.	-16426.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-68.	0.	0.	0.	79.	0.	0.	-16551.1	16551.1	0.00
2	16426.	0.	-16423.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-68.	0.	0.	0.	80.	0.	0.	-16549.0	16549.0	0.00
3	16423.	0.	-16421.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16546.9	16546.9	-0.01
4	16421.	0.	-16419.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16544.9	16544.9	0.00
5	16419.	0.	-16417.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16542.9	16542.9	-0.01
6	16417.	0.	-16415.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16541.0	16541.0	0.00
7	16415.	0.	-16413.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16539.1	16539.1	-0.01
8	16413.	0.	-16411.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16537.3	16537.3	0.00
9	16411.	0.	-16409.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16535.5	16535.5	0.00
10	16409.	0.	-16407.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16533.7	16533.7	0.00
11	16407.	0.	-16405.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16532.0	16532.0	0.00
12	16405.	0.	-16403.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16530.3	16530.3	0.00
13	16403.	0.	-16402.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16528.6	16528.6	-0.01
14	16402.	0.	-16400.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16527.0	16527.0	0.00
15	16400.	0.	-16398.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16525.5	16525.5	-0.01
16	16398.	0.	-16397.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16523.9	16523.9	0.00
17	16397.	0.	-16395.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16522.4	16522.4	0.00
18	16395.	0.	-16393.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16521.0	16521.0	0.00
19	16393.	0.	-16392.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16519.6	16519.6	-0.01
20	16392.	0.	-16390.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16518.2	16518.2	-0.01
21	16390.	0.	-16389.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16516.8	16516.8	0.00
22	16389.	0.	-16388.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16515.5	16515.5	-0.01
23	16388.	0.	-16386.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16514.3	16514.3	-0.01
24	16386.	0.	-16385.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16513.0	16513.0	0.00
25	16385.	0.	-16383.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16511.9	16511.9	0.00
26	16383.	0.	-16382.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16510.7	16510.7	0.00
27	16382.	0.	-16381.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-70.	0.	0.	0.	86.	0.	0.	-16509.6	16509.6	0.00
28	16381.	0.	-16380.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16508.5	16508.5	-0.01
29	16380.	0.	-16379.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16507.5	16507.5	-0.01
30	16379.	0.	-16377.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16506.5	16506.5	-0.01

31	16377.	0.	-16376.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16505.5	16505.5	0.00
32	16376.	0.	-16375.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16504.6	16504.6	0.00
33	16375.	0.	-16374.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16503.6	16503.6	0.00
34	16374.	0.	-16371.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16493.5	16493.5	-0.01
35	16371.	0.	-16367.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16490.2	16490.1	0.00
36	16367.	0.	-16364.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16486.8	16486.8	0.00
37	16364.	0.	-16360.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16483.4	16483.4	0.00
38	16360.	0.	-16357.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16480.0	16480.0	0.00
39	16357.	0.	-16353.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16476.6	16476.6	0.00
40	16353.	0.	-16350.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16473.2	16473.2	0.00
41	16350.	0.	-16347.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16469.8	16469.8	0.00
42	16347.	0.	-16343.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16466.4	16466.4	0.00
43	16343.	0.	-16340.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16463.0	16463.0	0.00
44	16340.	0.	-16336.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16459.6	16459.6	0.00
45	16336.	0.	-16333.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16456.3	16456.3	0.00
46	16333.	0.	-16329.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16452.9	16452.9	-0.01
47	16329.	0.	-16326.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16449.5	16449.5	0.00
48	16326.	0.	-16322.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16446.1	16446.1	0.00
49	16322.	0.	-16319.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16442.7	16442.7	0.00
50	16319.	0.	-16316.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16439.4	16439.4	0.00
51	16316.	0.	-16312.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16436.0	16436.0	0.00
52	16312.	0.	-16309.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16432.6	16432.6	0.00
53	16309.	0.	-16305.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16429.2	16429.2	0.00
54	16305.	0.	-16302.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16425.9	16425.9	0.00
55	16302.	0.	-16298.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16422.5	16422.5	0.00
56	16298.	0.	-16295.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16419.1	16419.1	0.00
57	16295.	0.	-16292.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16415.8	16415.8	0.00
58	16292.	0.	-16288.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16412.4	16412.4	0.00
59	16288.	0.	-16285.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16409.1	16409.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP IN	WSLD OUT	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
60	16285.	0.	-16281.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16405.7	16405.7	0.00
61	16281.	0.	-16278.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16402.4	16402.4	0.00
62	16278.	0.	-16274.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16399.0	16399.0	0.00
63	16274.	0.	-16271.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16395.7	16395.7	0.00
64	16271.	0.	-16268.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16392.3	16392.3	0.00
65	16268.	0.	-16264.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16389.0	16389.0	0.00
66	16264.	0.	-16261.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16385.7	16385.7	0.00
67	16261.	0.	-16257.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16382.3	16382.3	0.00
68	16257.	0.	-16254.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16379.0	16379.0	0.00
69	16254.	0.	-16251.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16375.7	16375.7	0.00
70	16251.	0.	-16247.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16372.4	16372.4	0.00
71	16247.	0.	-16244.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16369.0	16369.0	0.00
72	16244.	0.	-16241.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16365.7	16365.7	0.00
73	16241.	0.	-16237.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16362.4	16362.4	0.00
74	16237.	0.	-16234.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16359.1	16359.1	0.00
75	16234.	0.	-16230.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16355.8	16355.8	0.00
76	16230.	0.	-16227.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16352.5	16352.5	0.00
77	16227.	0.	-16224.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16349.2	16349.2	0.00

78	16224.	0.	-16220.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16346.0	16345.9	0.00
79	16220.	0.	-16217.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16342.7	16342.7	0.00
80	16217.	0.	-16214.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16339.4	16339.4	0.00
81	16214.	0.	-16210.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16336.1	16336.1	0.00
82	16210.	0.	-16207.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16332.8	16332.8	0.00
83	16207.	0.	-16204.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16329.6	16329.6	0.00
84	16204.	0.	-16200.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16326.3	16326.3	0.00
85	16200.	0.	-16197.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16323.1	16323.1	0.00
86	16197.	0.	-16194.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16319.8	16319.8	0.00
87	16194.	0.	-16191.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16316.6	16316.6	0.00
88	16191.	0.	-16187.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16313.3	16313.3	0.00
89	16187.	0.	-16184.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16310.1	16310.1	0.00
90	16184.	0.	-16181.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16306.9	16306.9	0.00
91	16181.	0.	-16177.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16303.7	16303.7	0.00
92	16177.	0.	-16174.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16300.4	16300.4	0.00
93	16174.	0.	-16171.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16297.2	16297.2	0.00
94	16171.	0.	-16168.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16294.0	16294.0	0.00
95	16168.	0.	-16164.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16290.8	16290.8	0.00
96	16164.	0.	-16161.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16287.6	16287.6	0.00
97	16161.	0.	-16158.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16284.4	16284.4	0.00
98	16158.	0.	-16155.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16281.2	16281.2	0.00
99	16155.	0.	-16151.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16278.1	16278.1	0.00
100	16151.	0.	-16148.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16274.9	16274.9	0.00
101	16148.	0.	-16145.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16271.7	16271.7	0.00
102	16145.	0.	-16142.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16268.6	16268.6	0.00
103	16142.	0.	-16138.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16265.4	16265.4	0.00
104	16138.	0.	-16135.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16262.3	16262.3	0.00
105	16135.	0.	-16132.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16259.1	16259.1	0.00
106	16132.	0.	-16129.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16256.0	16256.0	0.00
107	16129.	0.	-16126.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16252.9	16252.9	0.00
108	16126.	0.	-16122.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16249.7	16249.7	0.00
109	16122.	0.	-16119.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16246.6	16246.6	0.00
110	16119.	0.	-16116.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16243.5	16243.5	0.00
111	16116.	0.	-16113.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16240.4	16240.4	0.00
112	16113.	0.	-16110.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16237.3	16237.3	0.00
113	16110.	0.	-16107.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16234.2	16234.2	0.00
114	16107.	0.	-16104.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16231.1	16231.1	0.00
115	16104.	0.	-16100.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16228.0	16228.0	0.00
116	16100.	0.	-16097.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16225.0	16225.0	0.00
117	16097.	0.	-16094.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16221.9	16221.9	0.00
118	16094.	0.	-16091.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16218.8	16218.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	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
119	16091.	0.	-16088.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16215.8	16215.8	0.00
120	16088.	0.	-16085.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16212.7	16212.7	0.00
121	16085.	0.	-16082.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16209.7	16209.7	0.00
122	16082.	0.	-16079.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16206.7	16206.7	0.00
123	16079.	0.	-16076.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16203.6	16203.6	0.00
124	16076.	0.	-16073.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16200.6	16200.6	0.00

125	16073.	0.	-16069.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16197.6	16197.6	0.00
126	16069.	0.	-16066.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16194.6	16194.6	0.00
127	16066.	0.	-16063.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16191.6	16191.6	0.00
128	16063.	0.	-16060.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16188.6	16188.6	0.00
129	16060.	0.	-16057.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16185.6	16185.6	0.00
130	16057.	0.	-16054.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16182.6	16182.6	0.00
131	16054.	0.	-16051.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16179.7	16179.7	0.00
132	16051.	0.	-16048.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16176.7	16176.7	0.00
133	16048.	0.	-16045.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16173.7	16173.7	0.00
134	16045.	0.	-16042.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16170.8	16170.8	0.00
135	16042.	0.	-16039.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16167.8	16167.8	0.00
136	16039.	0.	-16036.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16164.9	16164.9	0.00
137	16036.	0.	-16033.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16162.0	16162.0	0.00
138	16033.	0.	-16030.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16159.1	16159.1	0.00
139	16030.	0.	-16027.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16156.1	16156.1	0.00
140	16027.	0.	-16024.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16153.2	16153.2	0.00
141	16024.	0.	-16021.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16150.3	16150.3	0.00
142	16021.	0.	-16018.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16147.4	16147.4	0.00
143	16018.	0.	-16015.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16144.6	16144.6	0.00
144	16015.	0.	-16013.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16141.7	16141.7	0.00
145	16013.	0.	-16010.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16138.8	16138.8	0.00
146	16010.	0.	-16007.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16135.9	16135.9	0.00
147	16007.	0.	-16004.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16133.1	16133.1	0.00
148	16004.	0.	-16001.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16130.2	16130.2	0.00
149	16001.	0.	-15998.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16127.4	16127.4	0.00
150	15998.	0.	-15995.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16124.6	16124.6	0.00
151	15995.	0.	-15992.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16121.7	16121.7	0.00
152	15992.	0.	-15989.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16118.9	16118.9	0.00
153	15989.	0.	-15987.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16116.1	16116.1	0.00
154	15987.	0.	-15984.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16113.3	16113.3	0.00
155	15984.	0.	-15981.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16110.5	16110.5	0.00
156	15981.	0.	-15978.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16107.7	16107.7	0.00
157	15978.	0.	-15975.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16104.9	16104.9	0.00
158	15975.	0.	-15972.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16102.2	16102.2	0.00
159	15972.	0.	-15970.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16099.4	16099.4	0.00
160	15970.	0.	-15968.	0.	0.	1.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16097.9	16097.9	0.00
161	15968.	0.	-12162.	-1.	0.	2.	4.	-7.	0.	0.	-3870.	15.	-27.	-3.	0.	0.	-28.	0.	0.	0.	109.	0.	0.	-16097.9	16097.9	0.00
162	12162.	0.	-12224.	-2.	0.	2.	4.	-7.	0.	0.	0.	15.	-27.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-12290.7	12290.7	0.00
163	12224.	0.	-12286.	-2.	0.	2.	4.	-7.	0.	0.	0.	14.	-26.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-12352.2	12352.2	0.00
164	12286.	0.	-12346.	-2.	0.	2.	4.	-7.	0.	0.	0.	14.	-26.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-12412.7	12412.7	0.00
165	12346.	0.	-12406.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-12472.4	12472.4	0.00
166	12406.	0.	-12465.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-12531.0	12531.0	0.00
167	12465.	0.	-12522.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-12588.8	12588.8	0.00
168	12522.	0.	-12579.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-12645.7	12645.7	-0.01
169	12579.	0.	-12635.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-12701.6	12701.6	0.00
170	12635.	0.	-12690.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-12756.7	12756.7	0.00
171	12690.	0.	-12744.	-2.	0.	2.	4.	-7.	0.	0.	0.	11.	-26.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-12810.8	12810.8	0.00
172	12744.	0.	-12798.	-2.	0.	2.	4.	-8.	0.	0.	0.	11.	-26.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-12864.1	12864.1	0.00
173	12798.	0.	-12850.	-2.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-12916.4	12916.4	0.00
174	12850.	0.	-12902.	-1.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-12967.9	12967.9	0.00

175	12902.	0.	-12952.	-1.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-13018.6	13018.5	-0.01							
176	12952.	0.	-13002.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	101.	0.	0.	-13068.3	13068.3	-0.01							
177	13002.	0.	-13051.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-13117.2	13117.2	0.00							

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP IN	WSLD OUT	WITH IN	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
178	13051.	0.	-13099.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-13165.2	13165.2	0.00
179	13099.	0.	-13146.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-13212.4	13212.4	0.00
180	13146.	0.	-13193.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-13258.8	13258.8	0.00
181	13193.	0.	-13238.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-13304.3	13304.3	0.00
182	13238.	0.	-13283.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-13349.0	13349.0	0.00
183	13283.	0.	-13327.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-13392.8	13392.8	0.00
184	13327.	0.	-13370.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-13435.9	13435.9	-0.01
185	13370.	0.	-13412.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-13478.1	13478.1	0.00
186	13412.	0.	-13453.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-13519.5	13519.5	-0.01
187	13453.	0.	-13494.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-13560.1	13560.1	-0.01
188	13494.	0.	-13534.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-13599.9	13599.9	-0.01
189	13534.	0.	-13573.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-13639.0	13638.9	-0.01
190	13573.	0.	-13611.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-13677.2	13677.2	0.00
191	13611.	0.	-13649.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-13714.6	13714.6	-0.01
192	13649.	0.	-13685.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-13751.3	13751.3	-0.01
193	13685.	0.	-13721.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-13787.2	13787.2	0.00
194	13721.	0.	-13756.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-13822.4	13822.3	-0.01
195	13756.	0.	-13791.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	91.	0.	0.	-13856.7	13856.7	-0.01
196	13791.	0.	-13824.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-13890.4	13890.3	-0.01
197	13824.	0.	-13857.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-13923.2	13923.2	-0.01
198	13857.	0.	-13889.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-13955.4	13955.3	-0.01
199	13889.	0.	-13921.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-13986.7	13986.7	0.00
200	13921.	0.	-13951.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-14017.4	14017.4	-0.01
201	13951.	0.	-13981.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-14047.3	14047.3	-0.01
202	13981.	0.	-14011.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-14076.5	14076.5	-0.01
203	14011.	0.	-14039.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-14105.0	14105.0	-0.01
204	14039.	0.	-14067.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-14132.8	14132.8	-0.01
205	14067.	0.	-14094.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-14159.8	14159.8	-0.01
206	14094.	0.	-14120.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-14186.2	14186.2	0.00
207	14120.	0.	-14146.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-25.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-14211.8	14211.8	-0.01
208	14146.	0.	-14171.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-25.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-14236.8	14236.8	0.00
209	14171.	0.	-14195.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-14261.0	14261.0	-0.01
210	14195.	0.	-14219.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-14284.6	14284.6	-0.01
211	14219.	0.	-14241.	-1.	0.	0.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-14307.0	14307.0	-0.01
212	14241.	0.	-14245.	0.	0.	-18.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	82.	0.	0.	-14328.7	14328.7	-0.01
213	14245.	0.	-15037.	18.	0.	2.	5.	-11.	0.	724.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	140.	0.	0.	-15141.4	15141.4	-0.01
214	15037.	0.	-15083.	-2.	0.	2.	5.	-11.	0.	0.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	139.	0.	0.	-15189.2	15189.2	-0.01
215	15083.	0.	-15128.	-2.	0.	2.	5.	-11.	0.	0.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	138.	0.	0.	-15233.7	15233.7	-0.01
216	15128.	0.	-15171.	-2.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-4.	0.	0.	-49.	0.	0.	0.	137.	0.	0.	-15276.7	15276.7	-0.01
217	15171.	0.	-15212.	-1.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-4.	0.	0.	-49.	0.	0.	0.	135.	0.	0.	-15318.2	15318.2	-0.01
218	15212.	0.	-15253.	-1.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	134.	0.	0.	-15358.1	15358.1	-0.01
219	15253.	0.	-15291.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	133.	0.	0.	-15396.6	15396.6	-0.01
220	15291.	0.	-15328.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	132.	0.	0.	-15433.6	15433.6	-0.01
221	15328.	0.	-15364.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	131.	0.	0.	-15469.1	15469.1	-0.01

222	15364.	0.	-15398.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	130.	0.	0.	-15503.2	15503.2	-0.01
223	15398.	0.	-15431.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	128.	0.	0.	-15535.8	15535.8	-0.01
224	15431.	0.	-15462.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	127.	0.	0.	-15567.0	15567.0	-0.02
225	15462.	0.	-15492.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	126.	0.	0.	-15596.8	15596.8	-0.01
226	15492.	0.	-15520.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	125.	0.	0.	-15625.2	15625.2	-0.01
227	15520.	0.	-15547.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	124.	0.	0.	-15652.2	15652.2	-0.01
228	15547.	0.	-15573.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	123.	0.	0.	-15677.8	15677.8	-0.01
229	15573.	0.	-15597.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	121.	0.	0.	-15702.0	15702.0	-0.01
230	15597.	0.	-15620.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-40.	-5.	0.	0.	-49.	0.	0.	0.	120.	0.	0.	-15724.9	15724.9	-0.01
231	15620.	0.	-15642.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	119.	0.	0.	-15746.4	15746.4	-0.01
232	15642.	0.	-15662.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	118.	0.	0.	-15766.6	15766.6	-0.01
233	15662.	0.	-15681.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	117.	0.	0.	-15785.5	15785.5	-0.01
234	15681.	0.	-15699.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	115.	0.	0.	-15803.1	15803.1	-0.01
235	15699.	0.	-15715.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	114.	0.	0.	-15819.3	15819.3	-0.01
236	15715.	0.	-15730.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	113.	0.	0.	-15834.3	15834.3	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN	UPTR	LOWR	UPMN	UPTR	LOWR	INCR	INCR	NONP	WSLD	WITH	REAE	BOD1	NH3-N	ORG-N	NCM	SOD	SOD	SOD	SOD	ALG	ALG	MAC	TOT	TOT
	ADV	ADV	ADV	DISP	DISP	DISP	IN	OUT	IN	IN	OUT	IN	DECA	DECA	DECA	DECA	BKGD	BOD1	ALG	NCM	PHOT	RESP	PHOT	OUT	IN
237	15730.	0.	-15744.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	112.	0.	0.	-15848.0	15848.0	-0.01
238	15744.	0.	-15756.	-1.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	111.	0.	0.	-15860.4	15860.4	-0.01
239	15756.	0.	-15767.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	110.	0.	0.	-15871.6	15871.6	-0.01
240	15767.	0.	-15777.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	108.	0.	0.	-15881.7	15881.7	-0.01
241	15777.	0.	-15786.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	107.	0.	0.	-15890.5	15890.4	-0.01
242	15786.	0.	-15794.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	106.	0.	0.	-15898.0	15898.0	-0.02
243	15794.	0.	-15800.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	105.	0.	0.	-15904.3	15904.3	-0.02
244	15800.	0.	-15805.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	104.	0.	0.	-15909.5	15909.4	-0.01
245	15805.	0.	-15809.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	102.	0.	0.	-15913.4	15913.3	-0.01
246	15809.	0.	-15812.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	101.	0.	0.	-15916.1	15916.1	-0.01
247	15812.	0.	-15814.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	100.	0.	0.	-15917.6	15917.6	-0.02
248	15814.	0.	-15814.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	99.	0.	0.	-15918.0	15918.0	-0.01
249	15814.	0.	-15813.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	98.	0.	0.	-15917.2	15917.2	-0.02
250	15813.	0.	-15811.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	97.	0.	0.	-15915.2	15915.2	-0.01
251	15811.	0.	-15808.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-38.	-5.	0.	0.	-49.	0.	0.	0.	95.	0.	0.	-15912.2	15912.2	-0.01
252	15808.	0.	-15804.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-38.	-5.	0.	0.	-49.	0.	0.	0.	94.	0.	0.	-15908.0	15908.0	-0.01
253	15804.	0.	-3490.	0.	0.	0.	3.	-7.	0.	0.******	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-15862.1	15862.1	-0.01
254	3490.	0.	-3487.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3547.8	3547.8	-0.01
255	3487.	0.	-3484.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3544.3	3544.3	-0.01
256	3484.	0.	-3480.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3540.5	3540.5	-0.01
257	3480.	0.	-3476.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3536.5	3536.5	-0.01
258	3476.	0.	-3472.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3532.2	3532.2	-0.01
259	3472.	0.	-3467.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3527.7	3527.7	-0.01
260	3467.	0.	-3463.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3523.0	3523.0	-0.01
261	3463.	0.	-3458.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3518.0	3518.0	-0.01
262	3458.	0.	-3453.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3512.9	3512.9	-0.01
263	3453.	0.	-3448.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3507.5	3507.5	-0.01
264	3448.	0.	-3442.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3502.0	3501.9	-0.01
265	3442.	0.	-3436.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3496.2	3496.2	-0.01
266	3436.	0.	-3430.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3490.2	3490.2	-0.01
267	3430.	0.	-3424.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3484.0	3484.0	-0.01
268	3424.	0.	-3418.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3477.7	3477.7	-0.01

269	3418.	0.	-3411.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3471.1	3471.1	-0.01
270	3411.	0.	-3405.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3464.3	3464.3	-0.01
271	3405.	0.	-3398.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3457.4	3457.4	-0.01
272	3398.	0.	-3391.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3450.3	3450.3	-0.01
273	3391.	0.	-3384.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3443.0	3443.0	-0.01
274	3384.	0.	-3376.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3435.5	3435.5	-0.01
275	3376.	0.	-3369.	0.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3427.8	3427.8	-0.01
276	3369.	0.	-3361.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3420.0	3420.0	-0.01
277	3361.	0.	-3353.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3412.0	3412.0	-0.01
278	3353.	0.	-3345.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3403.8	3403.8	-0.01
279	3345.	0.	-3337.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3395.5	3395.5	-0.01
280	3337.	0.	-3328.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3387.1	3387.0	-0.01
281	3328.	0.	-3320.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3378.4	3378.4	-0.01
282	3320.	0.	-3311.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3369.6	3369.6	-0.01
283	3311.	0.	-3302.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3360.7	3360.7	-0.01
284	3302.	0.	-3293.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3351.6	3351.6	-0.01
285	3293.	0.	-3284.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3342.4	3342.4	-0.01
286	3284.	0.	-3275.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3333.0	3333.0	-0.01
287	3275.	0.	-3265.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3323.5	3323.5	-0.01
288	3265.	0.	-3256.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3313.9	3313.9	-0.01
289	3256.	0.	-3246.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3304.1	3304.1	-0.01
290	3246.	0.	-3236.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3294.2	3294.2	-0.01
291	3236.	0.	-3226.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3284.2	3284.1	-0.01
292	3226.	0.	-3216.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3274.0	3274.0	-0.01
293	3216.	0.	-3206.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3263.7	3263.7	-0.01
294	3206.	0.	-3195.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3253.3	3253.3	-0.01
295	3195.	0.	-3185.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3242.8	3242.8	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
296	3185.	0.	-3174.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3232.1	3232.1	-0.01
297	3174.	0.	-3164.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3221.3	3221.3	-0.01
298	3164.	0.	-3153.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3210.5	3210.5	-0.01
299	3153.	0.	-3142.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3199.5	3199.5	-0.01
300	3142.	0.	-3131.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3188.4	3188.4	-0.01
301	3131.	0.	-3120.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3177.2	3177.2	-0.01
302	3120.	0.	-3109.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3165.9	3165.9	-0.01
303	3109.	0.	-3097.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3154.5	3154.5	-0.01
304	3097.	0.	-3086.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3143.0	3143.0	-0.01
305	3086.	0.	-3074.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3131.4	3131.3	-0.01
306	3074.	0.	-3063.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3119.6	3119.6	-0.01
307	3063.	0.	-3051.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3107.8	3107.8	-0.01
308	3051.	0.	-3039.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3095.9	3095.9	-0.01
309	3039.	0.	-3027.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3084.0	3084.0	-0.01
310	3027.	0.	-3015.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3071.9	3071.9	-0.01
311	3015.	0.	-3003.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3059.7	3059.7	-0.01
312	3003.	0.	-2991.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3047.5	3047.5	-0.01
313	2991.	0.	-2979.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3035.1	3035.1	-0.01
314	2979.	0.	-2966.	1.	0.	-1.	3.	-6.	0.	0.	0.	7.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-3022.7	3022.7	-0.01
315	2966.	0.	-2953.	1.	0.	-2.	3.	-6.	0.	0.	0.	7.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-3010.2	3010.2	-0.01

316	2953.	0.	-2936.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-3010.7	3010.7	-0.01
317	2936.	0.	-2919.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2993.8	2993.8	-0.01
318	2919.	0.	-2903.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2977.3	2977.3	-0.01
319	2903.	0.	-2887.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2961.1	2961.1	-0.01
320	2887.	0.	-2871.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2945.3	2945.3	-0.01
321	2871.	0.	-2856.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2929.9	2929.9	-0.01
322	2856.	0.	-2841.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2914.8	2914.8	-0.01
323	2841.	0.	-2826.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2900.1	2900.1	-0.01
324	2826.	0.	-2812.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2885.6	2885.6	-0.01
325	2812.	0.	-2798.	2.	0.	-2.	7.	-13.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2871.5	2871.5	-0.01
326	2798.	0.	-2784.	2.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2857.8	2857.7	-0.01
327	2784.	0.	-2771.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2844.3	2844.3	-0.01
328	2771.	0.	-2758.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2831.1	2831.1	-0.01
329	2758.	0.	-2745.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2818.2	2818.2	-0.01
330	2745.	0.	-2732.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2805.6	2805.6	-0.01
331	2732.	0.	-2720.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2793.3	2793.3	-0.01
332	2720.	0.	-2708.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2781.2	2781.2	-0.01
333	2708.	0.	-2697.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2769.4	2769.4	-0.01
334	2697.	0.	-2685.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2757.9	2757.9	0.00
335	2685.	0.	-2674.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2746.6	2746.6	-0.01
336	2674.	0.	-2663.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2735.6	2735.6	-0.01
337	2663.	0.	-2652.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2724.8	2724.8	-0.01
338	2652.	0.	-2642.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2714.2	2714.2	-0.01
339	2642.	0.	-2632.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2703.9	2703.9	-0.01
340	2632.	0.	-2622.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2693.8	2693.8	0.00
341	2622.	0.	-2612.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2683.9	2683.9	0.00
342	2612.	0.	-2602.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2674.2	2674.2	0.00
343	2602.	0.	-2593.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2664.8	2664.8	0.00
344	2593.	0.	-2585.	1.	0.	1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2656.2	2656.2	-0.01
345	2585.	0.	-2587.	-1.	0.	11.	7.	-12.	0.	0.	0.	13.	-19.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2657.9	2657.9	0.00
526	2587.	2044.	-4619.	-11.	3.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4671.8	4671.8	0.00
527	4619.	0.	-4616.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4657.3	4657.3	0.00
528	4616.	0.	-4612.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4653.9	4653.9	0.00
529	4612.	0.	-4609.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4650.6	4650.6	0.00
530	4609.	0.	-4606.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-4647.5	4647.5	0.00
531	4606.	0.	-4609.	0.	0.	5.	0.	0.	0.	0.	0.	12.	-9.	-2.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-4649.2	4649.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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
346	46.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.3	59.3	0.00
347	46.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.3	59.3	0.00
348	46.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.5	59.5	0.00
349	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.6	59.6	0.00
350	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.8	59.8	0.00
351	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.0	60.0	0.00
352	47.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.2	60.2	0.00
353	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.3	60.3	0.00
354	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.5	60.5	0.00
355	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.7	60.7	0.00
356	48.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.9	60.9	0.00

357	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.1	61.1	0.00
358	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.3	61.3	0.00
359	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.5	61.5	0.00
360	49.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.6	61.6	0.00
361	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.8	61.8	0.00
362	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.0	62.0	0.00
363	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.1	62.1	0.00
364	50.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.3	62.3	0.00
365	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.4	62.4	0.00
366	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.6	62.6	0.00
367	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-10.	0.	0.	0.	5.	0.	0.	-62.7	62.7	0.00
368	51.	0.	-172.	0.	0.	0.	74.	0.	0.	0.	0.	104.	-83.	-31.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-541.8	541.7	-0.09
369	172.	0.	-276.	0.	0.	0.	74.	0.	0.	0.	0.	96.	-90.	-32.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-653.9	653.8	-0.09
370	276.	0.	-380.	0.	0.	0.	74.	0.	0.	0.	0.	97.	-92.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-759.8	759.7	-0.09
371	380.	0.	-484.	0.	0.	0.	74.	0.	0.	0.	0.	98.	-92.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-864.2	864.1	-0.09
372	484.	0.	-587.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-968.2	968.1	-0.09
373	587.	0.	-691.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1072.1	1072.0	-0.09
374	691.	0.	-794.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1175.8	1175.7	-0.09
375	794.	0.	-898.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1279.5	1279.4	-0.09
376	898.	0.	-1001.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1383.1	1383.0	-0.09
377	1001.	0.	-979.	0.	0.	0.	119.	-67.	0.	0.	0.	128.	-52.	-16.	0.	0.	-295.	0.	0.	0.	161.	0.	0.	-1409.4	1409.3	-0.03
378	979.	0.	-1006.	0.	0.	0.	119.	-63.	0.	0.	0.	165.	-58.	-18.	0.	0.	-296.	0.	0.	0.	178.	0.	0.	-1441.0	1441.0	-0.03
379	1006.	0.	-1059.	0.	0.	0.	119.	-62.	0.	0.	0.	180.	-63.	-19.	0.	0.	-297.	0.	0.	0.	195.	0.	0.	-1499.9	1499.9	-0.03
380	1059.	0.	-1128.	0.	0.	0.	119.	-61.	0.	0.	0.	184.	-67.	-20.	0.	0.	-298.	0.	0.	0.	212.	0.	0.	-1574.3	1574.3	-0.03
381	1128.	0.	-1207.	0.	0.	0.	119.	-62.	0.	0.	0.	182.	-70.	-22.	0.	0.	-298.	0.	0.	0.	229.	0.	0.	-1658.5	1658.5	-0.03
382	1207.	0.	-1293.	0.	0.	0.	119.	-62.	0.	0.	0.	177.	-72.	-23.	0.	0.	-299.	0.	0.	0.	246.	0.	0.	-1749.4	1749.3	-0.03
383	1293.	0.	-1385.	0.	0.	0.	119.	-63.	0.	0.	0.	169.	-74.	-24.	0.	0.	-300.	0.	0.	0.	264.	0.	0.	-1845.4	1845.3	-0.03
384	1385.	0.	-1481.	0.	0.	0.	119.	-63.	0.	0.	0.	161.	-75.	-25.	0.	0.	-301.	0.	0.	0.	281.	0.	0.	-1945.5	1945.5	-0.04
385	1481.	0.	-1581.	0.	0.	0.	119.	-64.	0.	0.	0.	151.	-77.	-26.	0.	0.	-301.	0.	0.	0.	298.	0.	0.	-2049.4	2049.3	-0.04
386	1581.	0.	-1685.	0.	0.	0.	119.	-65.	0.	0.	0.	141.	-78.	-27.	0.	0.	-302.	0.	0.	0.	316.	0.	0.	-2156.6	2156.6	-0.05
387	1685.	0.	-1792.	0.	0.	0.	119.	-66.	0.	0.	0.	130.	-79.	-28.	0.	0.	-303.	0.	0.	0.	333.	0.	0.	-2267.1	2267.1	-0.05
388	1792.	0.	-1902.	0.	0.	0.	119.	-67.	0.	0.	0.	119.	-80.	-29.	0.	0.	-303.	0.	0.	0.	351.	0.	0.	-2380.8	2380.7	-0.06
389	1902.	0.	-2016.	0.	0.	0.	119.	-68.	0.	0.	0.	108.	-80.	-29.	0.	0.	-304.	0.	0.	0.	368.	0.	0.	-2497.5	2497.4	-0.06
390	2016.	0.	-1978.	0.	0.	0.	24.	-30.	0.	0.	0.	14.	-12.	-7.	0.	0.	-85.	0.	0.	0.	59.	0.	0.	-2112.1	2112.1	-0.01
391	1978.	0.	-1945.	0.	0.	0.	24.	-30.	0.	0.	0.	15.	-12.	-6.	0.	0.	-85.	0.	0.	0.	62.	0.	0.	-2078.7	2078.7	-0.01
392	1945.	0.	-1917.	0.	0.	0.	24.	-29.	0.	0.	0.	16.	-12.	-6.	0.	0.	-85.	0.	0.	0.	65.	0.	0.	-2050.2	2050.2	-0.01
393	1917.	0.	-1893.	0.	0.	0.	24.	-29.	0.	0.	0.	17.	-12.	-6.	0.	0.	-85.	0.	0.	0.	68.	0.	0.	-2026.2	2026.2	-0.01
394	1893.	0.	-1874.	0.	0.	0.	24.	-29.	0.	0.	0.	18.	-12.	-6.	0.	0.	-85.	0.	0.	0.	71.	0.	0.	-2006.7	2006.7	-0.01
395	1874.	0.	-1859.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-12.	-6.	0.	0.	-85.	0.	0.	0.	75.	0.	0.	-1991.2	1991.2	-0.01
396	1859.	0.	-1847.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	78.	0.	0.	-1979.7	1979.7	-0.01
397	1847.	0.	-1840.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	81.	0.	0.	-1971.8	1971.8	-0.01
398	1840.	0.	-1835.	0.	0.	0.	24.	-28.	0.	0.	0.	20.	-13.	-6.	0.	0.	-85.	0.	0.	0.	84.	0.	0.	-1967.4	1967.4	-0.01
399	1835.	0.	-1833.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1889.5	1889.5	0.00
400	1833.	0.	-1831.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1887.5	1887.5	0.00
401	1831.	0.	-1829.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1885.6	1885.6	0.00
402	1829.	0.	-1827.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1883.8	1883.8	0.00
403	1827.	0.	-1826.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1881.9	1881.9	0.00
404	1826.	0.	-1824.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1880.2	1880.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN	UPTR	LOWR	UPMN	UPTR	LOWR	INCR	INCR	NONP	WSLD	WITH	REAE	BOD1	NH3-N	ORG-N	NCM	SOD	SOD	SOD	SOD	ALG	ALG	MAC	TOT	TOT

	ADV	ADV	ADV	DISP	DISP	DISP	IN	OUT	IN	IN	OUT	IN	DECA	DECA	DECA	DECA	BKGD	BOD1	ALG	NCM	PHOT	RESP	PHOT	OUT	IN
405	1824.	0.	-1822.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1878.4	1878.4	0.00
406	1822.	0.	-1820.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1876.7	1876.7	0.00
407	1820.	0.	-1819.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1875.0	1875.0	0.00
408	1819.	0.	-1817.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1873.4	1873.4	0.00
409	1817.	0.	-1816.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1871.8	1871.8	0.00
410	1816.	0.	-1814.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1870.2	1870.2	0.00
411	1814.	0.	-1812.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1868.7	1868.7	0.00
412	1812.	0.	-1811.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1867.2	1867.2	0.00
413	1811.	0.	-1809.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1865.7	1865.7	0.00
414	1809.	0.	-1808.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1864.3	1864.3	0.00
415	1808.	0.	-1807.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1862.9	1862.8	0.00
416	1807.	0.	-1805.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1861.5	1861.5	0.00
417	1805.	0.	-1803.	0.	0.	-1.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1860.1	1860.1	0.00
418	1803.	0.	-1795.	1.	0.	0.	17.	-19.	0.	0.	0.	10.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1863.5	1863.5	0.00
419	1795.	0.	-1787.	0.	0.	0.	17.	-19.	0.	0.	0.	10.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1855.3	1855.3	0.00
420	1787.	0.	-1779.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1847.3	1847.3	0.00
421	1779.	0.	-1771.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1839.5	1839.5	0.00
422	1771.	0.	-1764.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1831.9	1831.9	0.00
423	1764.	0.	-1757.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1824.6	1824.6	0.00
424	1757.	0.	-1750.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1817.4	1817.4	0.00
425	1750.	0.	-1743.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1810.5	1810.5	0.00
426	1743.	0.	-1736.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1803.7	1803.7	0.00
427	1736.	0.	-1730.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1797.1	1797.1	0.00
428	1730.	0.	-1723.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1790.8	1790.7	0.00
429	1723.	0.	-1717.	0.	0.	-1.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1784.6	1784.5	0.00
430	1717.	0.	-1702.	1.	0.	-9.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1778.7	1778.7	0.00
431	1702.	0.	-2703.	9.	0.	0.	0.	0.	0.	969.	0.	20.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-2733.4	2733.4	0.00
432	2703.	0.	-2725.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-2755.7	2755.7	0.00
433	2725.	0.	-1428.	0.	0.	0.	1.	0.	0.	0.	-1316.	16.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2773.7	2773.7	0.00
434	1428.	0.	-1446.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1476.1	1476.1	0.00
435	1446.	0.	-1463.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1494.0	1494.0	0.00
436	1463.	0.	-1481.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1511.5	1511.5	0.00
437	1481.	0.	-1498.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1528.6	1528.6	0.00
438	1498.	0.	-1514.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1545.3	1545.3	0.00
439	1514.	0.	-1531.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1561.6	1561.6	0.00
440	1531.	0.	-1547.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1577.6	1577.6	0.00
441	1547.	0.	-1562.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-1593.2	1593.2	0.00
442	1562.	0.	-1577.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1608.5	1608.5	0.00
443	1577.	0.	-1592.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1623.5	1623.5	0.00
444	1592.	0.	-1607.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1638.0	1638.0	0.00
445	1607.	0.	-1620.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1649.3	1649.3	0.00
446	1620.	0.	-1633.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1662.4	1662.4	0.00
447	1633.	0.	-1646.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1675.3	1675.3	0.00
448	1646.	0.	-1659.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1687.9	1687.9	0.00
449	1659.	0.	-1671.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1700.1	1700.1	0.00
450	1671.	0.	-1683.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1712.1	1712.1	0.00
451	1683.	0.	-1695.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1723.8	1723.8	0.00
452	1695.	0.	-1706.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1735.3	1735.3	0.00
453	1706.	0.	-1717.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1746.4	1746.4	0.00

454	1717.	0.	-1728.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1757.3	1757.3	0.00
455	1728.	0.	-1739.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1768.0	1768.0	0.00
456	1739.	0.	-1749.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1778.4	1778.4	0.00
457	1749.	0.	-1759.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1788.5	1788.5	0.00
458	1759.	0.	-1769.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1798.4	1798.4	0.00
459	1769.	0.	-1779.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1808.1	1808.1	0.00
460	1779.	0.	-1788.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1817.5	1817.5	0.00
461	1788.	0.	-1798.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1826.7	1826.7	0.00
462	1798.	0.	-1807.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1835.7	1835.7	0.00
463	1807.	0.	-1815.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1844.4	1844.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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
464	1815.	0.	-1824.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1852.9	1852.9	0.00
465	1824.	0.	-1832.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1861.3	1861.3	0.00
466	1832.	0.	-1840.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1869.4	1869.4	0.00
467	1840.	0.	-1848.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1877.3	1877.3	0.00
468	1848.	0.	-1856.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1885.0	1885.0	0.00
469	1856.	0.	-1863.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1892.5	1892.5	0.00
470	1863.	0.	-1871.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1899.8	1899.8	0.00
471	1871.	0.	-1878.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1907.0	1906.9	0.00
472	1878.	0.	-1885.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1913.9	1913.9	0.00
473	1885.	0.	-1892.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1920.7	1920.7	0.00
474	1892.	0.	-1898.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1927.3	1927.3	0.00
475	1898.	0.	-1905.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1933.7	1933.7	0.00
476	1905.	0.	-1911.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1939.9	1939.9	0.00
477	1911.	0.	-1917.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1946.0	1946.0	0.00
478	1917.	0.	-1923.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1951.9	1951.9	0.00
479	1923.	0.	-1929.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1957.7	1957.7	0.00
480	1929.	0.	-1934.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1963.3	1963.3	0.00
481	1934.	0.	-1940.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1968.7	1968.7	0.00
482	1940.	0.	-1945.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1974.0	1974.0	0.00
483	1945.	0.	-1950.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1979.1	1979.1	0.00
484	1950.	0.	-1955.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1984.1	1984.1	0.00
485	1955.	0.	-1960.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1989.0	1989.0	0.00
486	1960.	0.	-1965.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1993.7	1993.7	0.00
487	1965.	0.	-1969.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1998.3	1998.3	0.00
488	1969.	0.	-1974.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2002.7	2002.7	0.00
489	1974.	0.	-1978.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2007.0	2007.0	0.00
490	1978.	0.	-1982.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2011.2	2011.2	0.00
491	1982.	0.	-1986.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2015.3	2015.2	0.00
492	1986.	0.	-1990.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2019.2	2019.2	0.00
493	1990.	0.	-1994.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2023.0	2023.0	0.00
494	1994.	0.	-1998.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2026.7	2026.7	0.00
495	1998.	0.	-2001.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2030.2	2030.2	0.00
496	2001.	0.	-2005.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2033.7	2033.7	0.00
497	2005.	0.	-2008.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2037.0	2037.0	0.00
498	2008.	0.	-2011.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2040.2	2040.2	0.00
499	2011.	0.	-2015.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2043.4	2043.3	0.00
500	2015.	0.	-2018.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2046.4	2046.4	0.00

501	2018.	0.	-2021.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2049.3	2049.3	0.00
502	2021.	0.	-2023.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2052.1	2052.1	0.00
503	2023.	0.	-2026.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2054.8	2054.8	0.00
504	2026.	0.	-2029.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2057.4	2057.4	0.00
505	2029.	0.	-2031.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2059.9	2059.9	0.00
506	2031.	0.	-2034.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2062.3	2062.3	0.00
507	2034.	0.	-2036.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2064.6	2064.6	0.00
508	2036.	0.	-2038.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2066.8	2066.8	0.00
509	2038.	0.	-2040.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2068.9	2068.9	0.00
510	2040.	0.	-2042.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2071.0	2070.9	0.00
511	2042.	0.	-2044.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2072.9	2072.9	0.00
512	2044.	0.	-2046.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2074.8	2074.8	0.00
513	2046.	0.	-2048.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2076.5	2076.5	0.00
514	2048.	0.	-2050.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2078.2	2078.2	0.00
515	2050.	0.	-2051.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2079.9	2079.9	0.00
516	2051.	0.	-2053.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2081.4	2081.4	0.00
517	2053.	0.	-2054.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2082.9	2082.9	0.00
518	2054.	0.	-2055.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2083.9	2083.9	0.00
519	2055.	0.	-2056.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2084.4	2084.4	0.00
520	2056.	0.	-2056.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2084.3	2084.3	0.00
521	2056.	0.	-2055.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2083.7	2083.7	0.00
522	2055.	0.	-2054.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	21.	0.	0.	-2082.5	2082.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
523	2054.	0.	-2052.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2080.8	2080.8	0.00
524	2052.	0.	-2050.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2078.6	2078.6	0.00
525	2050.	0.	-2044.	0.	0.	-3.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	19.	0.	0.	-2075.9	2075.9	0.00

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

Calibration Simulation for Lake Penchant and Bayou Penchant mode

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	30.781	16473.9	42639.9	0.0	4248.3	265.9	1484.2	0.0	0.0	0.0
INCREMENTAL INFLOW	14.380	6212.3	31122.7	0.0	2847.9	124.2	49.7	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-11.800	-6368.3	-14210.2	0.0	-1751.9	-114.9	-230.9	0.0	0.0	0.0
WASTELOADS	5.295	1692.8	3283.3	0.0	1438.6	22.9	0.0	0.0	0.0	0.0
WITHDRAWLS	-29.846	-17497.2	-41664.1	0.0	-4830.7	-266.2	-297.7	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-8.810	-4609.0	-6432.0	0.0	-1287.1	-92.0	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		4.8	-666.2	0.0	-180.3	-2.2	5.3	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	0.0	0.0	0.0					0.0
NATURAL REAERATION		10589.2								
DAM REAERATION		0.0								
BACKGROUND SOD		-27115.4								
BOD#1 DECAY		-14073.0	-14073.0							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-484.8	484.8				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-1833.5				-423.4	423.4			

BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		36519.7				0.0	-1826.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	50.456	71492.6	77046.0	0.0	8534.7	897.8	1962.7	0.0	0.0	0.0
TOTAL OUTPUTS	-50.456	-71496.3	-77045.5	0.0	-8534.7	-898.7	-2354.6	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-3.7	0.5	0.0	0.0	-0.9	-391.9	0.0	0.0	0.0

.....EXECUTION COMPLETED

Calibration output file for subsegments 120405/120406

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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 LT - Cade\cal\L_Cadehatchtheriot_CAL0608.txt
Output produced at 19:45 on 06/15/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
TITLE02        Calibration Simulation for Lake de Cade Theriot and Hache 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                       =        0.40000 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   1  Lake Hache incl 937              20.90  TO  16.30  0.1000    4.60    46      1    46
REACH ID    2   2  Lake Hache incl 120406-B         16.30  TO  13.20  0.1000    3.10    31     47    77
REACH ID    3   3  L. Hache-405/406 boundary        13.20  TO   9.30  0.1000    3.90    39     78   116
REACH ID    4   4  405/406 boundary to L. Theriot    9.30  TO   6.70  0.1000    2.60    26    117   142
REACH ID    5   5  Lake Theriot                      2.90  TO   0.50  0.1000    2.40    24    143   166
REACH ID    6   6  Lake Theriot Discharge            0.50  TO   0.00  0.1000    0.50     5    167   171
REACH ID    7   7  L. Theriot to Mandalay WR Bndy    6.70  TO   2.30  0.1000    4.40    44    172   215
REACH ID    8   8  Mandalay WR Bndy to constriction  2.30  TO   1.50  0.1000    0.80     8    216   223
REACH ID    9   9  constriction to Lake Hache inflo  1.50  TO   0.60  0.1000    0.90     9    224   232
REACH ID   10  10  Lake Hache                        1.10  TO   0.10  0.1000    1.00    10    233   242
REACH ID   11  11  Lake Hache Discharge              0.10  TO   0.00  0.1000    0.10     1    243   243
REACH ID   12  12  Lake Hache inflow to 406 boundar  0.60  TO   0.00  0.1000    0.60     6    244   249
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   1     0.000     0.000  1527.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      2   2     0.000     0.000  1029.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      3   3     0.000     0.000    25.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      4   4     0.000     0.000    10.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      5   5     0.000     0.000  2428.000     0.000     0.000     0.800   0.00010   1.460
HYDR-1      6   6     0.000     0.000    20.000     0.000     0.000     1.904   0.00010   1.460
HYDR-1      7   7     0.000     0.000    46.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      8   8     0.000     0.000   110.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      9   9     0.000     0.000    30.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     10  10     0.000     0.000   970.000     0.000     0.000     0.750   0.00010   1.460
HYDR-1     11  11     0.000     0.000    50.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     12  12     0.000     0.000    20.000     0.000     0.000     1.550   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                      RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00      0.500         0.000         0.000         0.000
HYDR        2   2     0.00      0.500         0.000         0.000         0.000
HYDR        3   3     0.00      0.400         0.000         0.000         0.000
HYDR        4   4     0.00      0.300         0.000         0.000         0.000
HYDR        5   5     0.00      0.000         0.000         0.000         0.000
HYDR        6   6     0.00      0.200         0.000         0.000         0.000
HYDR        7   7     0.00      0.100         0.000         0.000         0.000
HYDR        8   8     0.00      0.100         0.000         0.000         0.000
HYDR        9   9     0.00      0.100         0.000         0.000         0.000
HYDR       10  10     0.00      0.000         0.000         0.000         0.000
HYDR       11  11     0.00      0.100         0.000         0.000         0.000
HYDR       12  12     0.00      0.100         0.000         0.000         0.000
ENDATA10
$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$
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CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2     PHOS    CHL A    MACRO
INITIAL         1   1      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         2   2      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         3   3      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         4   4      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         5   5      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         6   6      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         7   7      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         8   8      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         9   9      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL        10  10      31.10    0.00     5.00    0.10    0.04     0.00    94.00     0.00
INITIAL        11  11      31.10    0.00     5.00    0.10    0.04     0.00    94.00     0.00
INITIAL        12  12      31.10    0.00     5.00    0.10    0.04     0.00    94.00     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   1  20 K2=a/D         0.930   0.000   0.000   1.200   0.130    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   2   2  20 K2=a/D         0.930   0.000   0.000   1.400   0.130    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   3   3   3 OCONNER-DOBB   0.000   0.000   0.000   2.500   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   4   4   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   5   5  20 K2=a/D         0.930   0.000   0.000   2.000   0.060    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   6   6   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.130    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   7   7   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   8   8   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   9   9   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1  10  10  20 K2=a/D         0.930   0.000   0.000   2.000   0.010    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1  11  11   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1  12  12   3 OCONNER-DOBB   0.000   0.000   0.000   2.000   0.310    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   1     0.003    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         2   2     0.003    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         3   3     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         4   4     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         5   5     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         6   6     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         7   7     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         8   8     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2         9   9     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        10  10     0.003    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        11  11     0.010    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        12  12     0.010    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
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                    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
INCR-1         1   1    -0.10000    2.98740    31.13     0.00     0.00     0.00   0.64943  -0.02174
INCR-1         2   2   -13.30000    2.98740    31.13     0.00     0.00     0.00   0.96368  -4.29032
INCR-1         3   3     0.00000    0.08500    31.13     0.00     0.00     0.00   0.02179   0.00000
INCR-1         4   4     0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1         5   5     0.00000    0.48000    31.13     0.00     0.00     0.00   0.20000   0.00000
INCR-1         6   6     0.00000    0.02000    31.13     0.00     0.00     0.00   0.04000   0.00000
INCR-1         7   7     0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1         8   8     0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1         9   9     0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1        10  10     0.00000    0.09810    31.13     0.00     0.00     0.00   0.09810   0.00000
INCR-1        11  11     0.00000    0.01420    31.13     0.00     0.00     0.00   0.14200   0.00000
INCR-1        12  12     0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE     REACH  ID        DO      BOD    ORG-N    NH3-N    NO3-N    BOD#2
INCR-2         1   1      5.00    28.00     2.00     1.00     0.04     0.00
INCR-2         2   2      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         3   3      5.00    60.00     6.00     1.00     0.04     0.00
INCR-2         4   4      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         5   5      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         6   6      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         7   7      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         8   8      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         9   9      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2        10  10      5.00    60.00     2.40     1.00     0.04     0.00
INCR-2        11  11      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2        12  12      0.00     0.00     0.00     0.00     0.00     0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE     REACH  ID       PHOS    CHL A     COLI      NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE     REACH  ID      BOD#1    ORG-N     COLI      NCM       DO    BOD#2
NONPOINT       1   1      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       2   2      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       3   3      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       4   4      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       5   5      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       6   6      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       7   7      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       8   8      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       9   9      0.00     0.00     0.00     0.00     0.00     0.00
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NONPOINT      10  10     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      11  11     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      12  12     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    Lake de Cade        0  11.21353  395.958   31.10    0.00    0.000    0.000  0.00
HDWTR-1      143    Lake Theriot        0   0.00971   0.343   31.10    0.00    0.000    0.000  0.00
HDWTR-1      233    Lake Hache          0   0.00100   0.035   31.10    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    Lake de Cade            6.50    2.72    0.80    0.10    0.04    0.00
HDWTR-2      143    Lake Theriot            6.90    2.72    0.90    0.10    0.04    0.00
HDWTR-2      233    Lake Hache              8.70   60.00    2.10    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      172    142     6.70  Lake Theriot - Minors Canal
JUNCTION      244    232     0.60  Lake Hache - Minors Canal
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      23     18.70  LAG480431         0.00011  0.00388  0.003   31.10    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      23     LAG480431               5.00   103.50   0.00    0.80    0.10    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                   32.400    deg C
LOWER BC    SALINITY                       0.000    ppt
LOWER BC    CONSERVATIVE MATERIAL I                 0.000
LOWER BC    CONSERVATIVE MATERIAL II                0.000
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LOWER BC    DISSOLVED OXYGEN                    6.100    mg/L
LOWER BC    BIOCHEMICAL OXYGEN DEMAND              4.700    mg/L
LOWER BC    ORGANIC NITROGEN                    0.000    mg/L
LOWER BC    AMMONIA NITROGEN                    0.100    mg/L
LOWER BC    NITRATE + NITRITE                   0.040    mg/L
LOWER BC    PHOSPHORUS                          0.000    mg/L
LOWER BC    CHLOROPHYLL A                       0.094    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 =  3
NUMBER OF REACHES IN PLOT 1 =   8
PLOT RCH  1  2  3  4  7  8  9 12
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  5  6
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH 10 11
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 Lakedecade.OVL              :Lake Decade and Minors C MS
OVERLAY 2 LakeTheriot.OVL             :Lake Theriot and Minors C MS
OVERLAY 3 LakeHache.OVL               :Lake Hache and Minors C MS
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
    .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
INTERMEDIATE REPORT
 Dissolved Oxygen                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
    mg/L                                   Calibration Simulation for Lake de Cade Theriot and Hache model
  ID   RCH  ELEM       +0       +1       +2       +3       +4       +5       +6       +7       +8       +9
   1    1    1      6.49     6.49     6.49     6.49     6.49     6.49     6.49     6.50     6.50     6.50
   1    1   11      6.50     6.51     6.51     6.51     6.51     6.52     6.52     6.52     6.52     6.53
   1    1   21      6.53     6.53     6.53     6.53     6.53     6.53     6.54     6.54     6.54     6.54
   1    1   31      6.54     6.54     6.54     6.54     6.54     6.54     6.54     6.54     6.54     6.54
   1    1   41      6.54     6.54     6.54     6.54     6.53     6.51
   2    2   47      6.47     6.43     6.38     6.33     6.28     6.22     6.17     6.11     6.05     5.99
   2    2   57      5.93     5.87     5.81     5.75     5.69     5.63     5.57     5.51     5.45     5.39
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2	2	67	5.33	5.27	5.22	5.16	5.10	5.05	5.00	4.95	4.91	4.88
2	2	77	4.85									
3	3	78	4.83	4.79	4.75	4.71	4.67	4.64	4.60	4.57	4.54	4.51
3	3	88	4.48	4.45	4.42	4.39	4.37	4.34	4.32	4.30	4.28	4.26
3	3	98	4.24	4.23	4.21	4.20	4.18	4.17	4.16	4.15	4.14	4.13
3	3	108	4.12	4.11	4.11	4.10	4.10	4.10	4.09	4.09	4.09	
4	4	117	4.10	4.11	4.12	4.13	4.14	4.15	4.16	4.17	4.18	4.19
4	4	127	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.27	4.28	4.28
4	4	137	4.29	4.30	4.31	4.32	4.33	4.35				
7	7	172	4.67	4.68	4.68	4.68	4.68	4.69	4.69	4.69	4.70	4.70
7	7	182	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.76	4.77	4.78
7	7	192	4.79	4.81	4.82	4.83	4.84	4.85	4.86	4.88	4.89	4.90
7	7	202	4.92	4.93	4.95	4.96	4.97	4.99	5.01	5.02	5.04	5.05
7	7	212	5.07	5.09	5.10	5.12						
8	8	216	5.16	5.19	5.23	5.27	5.31	5.35	5.39	5.44		
9	9	224	5.46	5.48	5.51	5.55	5.59	5.63	5.68	5.73	5.79	
12	12	244	5.87	5.89	5.89	5.89	5.87	5.84				
5	5	143	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	153	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	163	6.66	6.66	6.66	6.66						
6	6	167	6.80	6.91	7.01	7.02	6.48					
10	10	233	8.67	8.68	8.68	8.68	8.68	8.69	8.69	8.69	8.69	8.66
11	11	243	6.86									

INTERMEDIATE REPORT

Effective BOD — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.88				
2	2	47	3.06	3.26	3.45	3.64	3.83	4.02	4.20	4.39	4.57	4.74
2	2	57	4.92	5.09	5.26	5.42	5.59	5.75	5.90	6.06	6.21	6.36
2	2	67	6.51	6.65	6.79	6.92	7.05	7.18	7.29	7.40	7.50	7.57
2	2	77	7.62									
3	3	78	7.61	7.59	7.58	7.56	7.54	7.53	7.51	7.50	7.48	7.47
3	3	88	7.45	7.44	7.42	7.41	7.39	7.38	7.36	7.35	7.33	7.32
3	3	98	7.30	7.29	7.28	7.26	7.25	7.24	7.22	7.21	7.20	7.18
3	3	108	7.17	7.16	7.14	7.13	7.12	7.10	7.09	7.08	7.07	
4	4	117	7.05	7.03	7.02	7.00	6.98	6.97	6.95	6.93	6.92	6.90
4	4	127	6.88	6.87	6.85	6.83	6.82	6.80	6.79	6.77	6.75	6.74
4	4	137	6.72	6.71	6.69	6.67	6.66	6.64				
7	7	172	6.37	6.31	6.25	6.19	6.13	6.07	6.01	5.96	5.90	5.84
7	7	182	5.79	5.73	5.67	5.62	5.57	5.51	5.46	5.41	5.35	5.30
7	7	192	5.25	5.20	5.15	5.10	5.05	5.00	4.96	4.91	4.86	4.81
7	7	202	4.77	4.72	4.68	4.63	4.59	4.54	4.50	4.46	4.41	4.37
7	7	212	4.33	4.29	4.25	4.20						
8	8	216	4.11	4.01	3.92	3.83	3.75	3.66	3.58	3.50		
9	9	224	3.48	3.46	3.43	3.41	3.39	3.37	3.35	3.33	3.31	

12	12	244	3.78	3.77	3.75	3.73	3.72	3.72				
5	5	143	3.64	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.46	4.74	5.30					
10	10	233	26.12	25.14	24.91	24.82	24.77	24.75	24.74	24.73	24.72	21.46
11	11	243	11.94									

INTERMEDIATE REPORT

Biochemical Oxygen Demand — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.88				
2	2	47	3.06	3.26	3.45	3.64	3.83	4.02	4.20	4.39	4.57	4.74
2	2	57	4.92	5.09	5.26	5.42	5.59	5.75	5.90	6.06	6.21	6.36
2	2	67	6.51	6.65	6.79	6.92	7.05	7.18	7.29	7.40	7.50	7.57
2	2	77	7.62									
3	3	78	7.61	7.59	7.58	7.56	7.54	7.53	7.51	7.50	7.48	7.47
3	3	88	7.45	7.44	7.42	7.41	7.39	7.38	7.36	7.35	7.33	7.32
3	3	98	7.30	7.29	7.28	7.26	7.25	7.24	7.22	7.21	7.20	7.18
3	3	108	7.17	7.16	7.14	7.13	7.12	7.10	7.09	7.08	7.07	
4	4	117	7.05	7.03	7.02	7.00	6.98	6.97	6.95	6.93	6.92	6.90
4	4	127	6.88	6.87	6.85	6.83	6.82	6.80	6.79	6.77	6.75	6.74
4	4	137	6.72	6.71	6.69	6.67	6.66	6.64				
7	7	172	6.37	6.31	6.25	6.19	6.13	6.07	6.01	5.96	5.90	5.84
7	7	182	5.79	5.73	5.67	5.62	5.57	5.51	5.46	5.41	5.35	5.30
7	7	192	5.25	5.20	5.15	5.10	5.05	5.00	4.96	4.91	4.86	4.81
7	7	202	4.77	4.72	4.68	4.63	4.59	4.54	4.50	4.46	4.41	4.37
7	7	212	4.33	4.29	4.25	4.20						
8	8	216	4.11	4.01	3.92	3.83	3.75	3.66	3.58	3.50		
9	9	224	3.48	3.46	3.43	3.41	3.39	3.37	3.35	3.33	3.31	
12	12	244	3.78	3.77	3.75	3.73	3.72	3.72				
5	5	143	3.64	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.46	4.74	5.30					
10	10	233	26.12	25.14	24.91	24.82	24.77	24.75	24.74	24.73	24.72	21.46
11	11	243	11.94									

INTERMEDIATE REPORT

Organic Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.81	0.82	0.82	0.83	0.84	0.84	0.85	0.85	0.86	0.86
1	1	11	0.87	0.87	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.92
1	1	21	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.96	0.96
1	1	31	0.97	0.97	0.97	0.98	0.98	0.99	0.99	0.99	1.00	1.00
1	1	41	1.01	1.01	1.01	1.02	1.02	1.03				

2	2	47	1.03	1.04	1.04	1.05	1.06	1.06	1.07	1.08	1.09	1.09
2	2	57	1.10	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.17	1.18
2	2	67	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28
2	2	77	1.29									
3	3	78	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31	1.31
3	3	88	1.31	1.31	1.32	1.32	1.32	1.32	1.33	1.33	1.33	1.33
3	3	98	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.36	1.36
3	3	108	1.36	1.36	1.37	1.37	1.37	1.37	1.38	1.38	1.38	
4	4	117	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
4	4	127	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
4	4	137	1.38	1.38	1.38	1.38	1.38	1.38				
7	7	172	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
7	7	182	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31	1.31
7	7	192	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
7	7	202	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
7	7	212	1.31	1.31	1.31	1.31						
8	8	216	1.31	1.30	1.30	1.30	1.30	1.30	1.30	1.30		
9	9	224	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
12	12	244	1.31	1.31	1.31	1.31	1.31	1.29				
5	5	143	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	153	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	163	0.83	0.83	0.83	0.83						
6	6	167	0.84	0.85	0.86	0.88	1.00					
10	10	233	1.84	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.74
11	11	243	1.53									

INTERMEDIATE REPORT

Ammonia Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
1	1	11	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06
1	1	21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	31	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	41	0.06	0.06	0.06	0.06	0.06	0.06				
2	2	47	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
2	2	57	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10
2	2	67	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2	2	77	0.11									
3	3	78	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	88	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	98	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	108	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
4	4	117	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
4	4	127	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	137	0.11	0.11	0.11	0.11	0.11	0.11				
7	7	172	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10
7	7	182	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	192	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
7	7	202	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
7	7	212	0.09	0.09	0.09	0.09						

8	8	216	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
9	9	224	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
12	12	244	0.08	0.08	0.08	0.08	0.08	0.08			
5	5	143	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	153	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	163	0.04	0.04	0.04	0.04						
6	6	167	0.05	0.05	0.06	0.07	0.08					
10	10	233	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11	11	243	0.10									

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Total Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.93	0.92	0.91	0.91	0.92	0.92	0.92	0.93	0.93	0.93
1	1	11	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.97	0.97	0.98
1	1	21	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01	1.02

1	1	31	1.02	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.06	1.06
1	1	41	1.06	1.07	1.07	1.07	1.08	1.08				
2	2	47	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18
2	2	57	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28
2	2	67	1.29	1.30	1.31	1.32	1.34	1.35	1.36	1.37	1.38	1.39
2	2	77	1.40									
3	3	78	1.40	1.40	1.40	1.41	1.41	1.41	1.41	1.42	1.42	1.42
3	3	88	1.42	1.43	1.43	1.43	1.43	1.44	1.44	1.44	1.45	1.45
3	3	98	1.45	1.45	1.46	1.46	1.46	1.46	1.47	1.47	1.47	1.47
3	3	108	1.48	1.48	1.48	1.48	1.49	1.49	1.49	1.49	1.50	
4	4	117	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49
4	4	127	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
4	4	137	1.49	1.49	1.49	1.49	1.49	1.49				
7	7	172	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
7	7	182	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.41	1.41	1.41
7	7	192	1.41	1.41	1.41	1.41	1.41	1.41	1.40	1.40	1.40	1.40
7	7	202	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39
7	7	212	1.39	1.39	1.39	1.39						
8	8	216	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38		
9	9	224	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	
12	12	244	1.39	1.39	1.39	1.39	1.39	1.37				
5	5	143	0.89	0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	153	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	163	0.87	0.87	0.87	0.87						
6	6	167	0.89	0.91	0.92	0.95	1.08					
10	10	233	1.88	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.78
11	11	243	1.63									

INTERMEDIATE REPORT

Chlorophyll a — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

µg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	41	20.00	20.00	20.00	20.00	20.00	20.00				
2	2	47	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	57	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	67	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	77	20.00									
3	3	78	20.85	21.69	22.54	23.38	24.23	25.08	25.92	26.77	27.62	28.46
3	3	88	29.31	30.15	31.00	31.85	32.69	33.54	34.38	35.23	36.08	36.92
3	3	98	37.77	38.62	39.46	40.31	41.15	42.00	42.85	43.69	44.54	45.38
3	3	108	46.23	47.08	47.92	48.77	49.62	50.46	51.31	52.15	53.00	
4	4	117	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	127	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	137	53.00	53.00	53.00	53.00	53.00	53.00				
7	7	172	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	182	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	192	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00

7	7	202	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	212	53.00	53.00	53.00	53.00						
8	8	216	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00		
9	9	224	57.56	62.11	66.67	71.22	75.78	80.33	84.89	89.44	94.00	
12	12	244	78.35	62.70	47.05	31.40	15.74	0.09				
5	5	143	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	153	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	163	53.00	53.00	53.00	53.00						
6	6	167	53.00	53.00	53.00	53.00	53.00					
10	10	233	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
11	11	243	94.00									

INTERMEDIATE REPORT

Temperature — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

deg C — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	11	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	21	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	31	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	41	31.10	31.10	31.10	31.10	31.10	31.10				
2	2	47	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	57	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	67	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	77	31.10									
3	3	78	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	88	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	98	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	108	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
4	4	117	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	127	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	137	31.10	31.10	31.10	31.10	31.10	31.10				
7	7	172	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	182	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	192	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	202	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	212	31.10	31.10	31.10	31.10						
8	8	216	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10		
9	9	224	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
12	12	244	31.32	31.53	31.75	31.97	32.18	32.40				
5	5	143	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	153	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	163	31.10	31.10	31.10	31.10						
6	6	167	31.10	31.10	31.10	31.10	31.10					
10	10	233	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
11	11	243	31.10									

INTERMEDIATE REPORT

Salinity — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

ppt — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Reaeration Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	11	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	21	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	31	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	41	0.735	0.735	0.735	0.735	0.735	0.735				
2	2	47	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	57	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	67	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	77	0.735									
3	3	78	0.781	0.781	0.782	0.782	0.782	0.782	0.783	0.783	0.783	0.783
3	3	88	0.783	0.784	0.784	0.784	0.784	0.785	0.785	0.785	0.785	0.785
3	3	98	0.786	0.786	0.786	0.786	0.787	0.787	0.787	0.787	0.787	0.788
3	3	108	0.788	0.788	0.788	0.789	0.789	0.789	0.789	0.789	0.790	
4	4	117	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
4	4	127	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
4	4	137	1.249	1.249	1.249	1.249	1.249	1.249				
7	7	172	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619

7	7	182	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	192	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	202	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	212	0.619	0.619	0.619	0.619						
8	8	216	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554		
9	9	224	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	
12	12	244	0.955	0.958	0.962	0.965	0.969	0.972				
5	5	143	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	153	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	163	1.425	1.425	1.425	1.425						
6	6	167	0.451	0.451	0.451	0.451	0.451					
10	10	233	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
11	11	243	0.554									

INTERMEDIATE REPORT

BOD Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	31	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	41	0.22	0.22	0.22	0.22	0.22	0.22				
2	2	47	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	57	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	67	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	77	0.22									
3	3	78	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	88	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	98	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	108	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
4	4	117	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	127	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	137	0.52	0.52	0.52	0.52	0.52	0.52				
7	7	172	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	182	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	192	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	202	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	212	0.52	0.52	0.52	0.52						
8	8	216	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52		
9	9	224	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
12	12	244	0.52	0.53	0.53	0.54	0.54	0.55				
5	5	143	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	153	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	163	0.10	0.10	0.10	0.10						
6	6	167	0.22	0.22	0.22	0.22	0.22					
10	10	233	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11	11	243	0.52									

INTERMEDIATE REPORT

BOD Settling Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Ammonia Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	11	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	21	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	31	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	41	0.47	0.47	0.47	0.47	0.47	0.47				
2	2	47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46
2	2	57	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.45
2	2	67	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44
2	2	77	0.44									
3	3	78	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43
3	3	88	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
3	3	98	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.42
3	3	108	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	
4	4	117	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43
4	4	127	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

4	4	137	0.43	0.43	0.43	0.43	0.43	0.43				
7	7	172	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	182	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	192	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	202	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	212	0.44	0.44	0.45	0.45						
8	8	216	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45		
9	9	224	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	
12	12	244	0.47	0.48	0.48	0.49	0.50	0.51				
5	5	143	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
5	5	153	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
5	5	163	0.47	0.47	0.47	0.47						
6	6	167	0.47	0.47	0.47	0.47	0.47					
10	10	233	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
11	11	243	0.47									

INTERMEDIATE REPORT

Sediment Oxygen Demand — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

g/m²/d — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	11	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	21	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	41	2.41	2.41	2.41	2.41	2.41	2.41				
2	2	47	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	57	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	67	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	77	2.82									
3	3	78	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	88	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	98	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	108	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	
4	4	117	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	127	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	137	4.02	4.02	4.02	4.02	4.02	4.02				
7	7	172	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	182	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	192	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	202	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	212	4.02	4.02	4.02	4.02						
8	8	216	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02		
9	9	224	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	
12	12	244	4.08	4.13	4.19	4.25	4.31	4.37				
5	5	143	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	153	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	163	4.02	4.02	4.02	4.02						
6	6	167	4.02	4.02	4.02	4.02	4.02					
10	10	233	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
11	11	243	4.02									

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	CHLA m	DISP m	ADVEC m/s	MEAN m/s	DO mg/L	REAER 1/da	BOD1 1/da	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SOD g/m²/d
	HDWTR		11.214	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0												
1	1	1	20.80	11.276	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
2	1	1	20.70	11.339	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
3	1	1	20.60	11.402	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
4	1	1	20.50	11.465	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
5	1	1	20.40	11.527	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
6	1	1	20.30	11.590	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
7	1	1	20.20	11.653	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
8	1	1	20.10	11.716	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
9	1	1	20.00	11.778	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
10	1	1	19.90	11.841	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
11	1	1	19.80	11.904	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
12	1	1	19.70	11.967	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
13	1	1	19.60	12.030	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
14	1	1	19.50	12.092	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
15	1	1	19.40	12.155	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
16	1	1	19.30	12.218	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
17	1	1	19.20	12.281	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
18	1	1	19.10	12.343	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
19	1	1	19.00	12.406	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
20	1	1	18.90	12.469	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
21	1	1	18.80	12.532	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
22	1	1	18.70	12.594	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
WASTELOAD # 023 (LAG480431) ENTERS HERE																							
23	1	1	18.60	12.657	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
24	1	1	18.50	12.720	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
25	1	1	18.40	12.783	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
26	1	1	18.30	12.846	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
27	1	1	18.20	12.908	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
28	1	1	18.10	12.971	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
29	1	1	18.00	13.034	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
30	1	1	17.90	13.097	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
31	1	1	17.80	13.159	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
32	1	1	17.70	13.222	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
33	1	1	17.60	13.285	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
34	1	1	17.50	13.348	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
35	1	1	17.40	13.411	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
36	1	1	17.30	13.473	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
37	1	1	17.20	13.536	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
38	1	1	17.10	13.599	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
39	1	1	17.00	13.662	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
40	1	1	16.90	13.724	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
41	1	1	16.80	13.787	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
42	1	1	16.70	13.850	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
43	1	1	16.60	13.913	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
44	1	1	16.50	13.975	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
45	1	1	16.40	14.038	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41

46	1	1	16.30	14.101	31.1	0.0	6.5	2.9	0.0	1.0	0.1	20.0	0.5	1.551527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
47	2	2	16.20	13.768	31.1	0.0	6.5	3.1	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
48	2	2	16.10	13.436	31.1	0.0	6.4	3.3	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
49	2	2	16.00	13.103	31.1	0.0	6.4	3.5	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
50	2	2	15.90	12.770	31.1	0.0	6.3	3.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
51	2	2	15.80	12.438	31.1	0.0	6.3	3.8	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
52	2	2	15.70	12.105	31.1	0.0	6.2	4.0	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
53	2	2	15.60	11.772	31.1	0.0	6.2	4.2	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
54	2	2	15.50	11.440	31.1	0.0	6.1	4.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
55	2	2	15.40	11.107	31.1	0.0	6.1	4.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
56	2	2	15.30	10.774	31.1	0.0	6.0	4.7	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
57	2	2	15.20	10.442	31.1	0.0	5.9	4.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
58	2	2	15.10	10.109	31.1	0.0	5.9	5.1	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
59	2	2	15.00	9.776	31.1	0.0	5.8	5.3	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
60	2	2	14.90	9.444	31.1	0.0	5.8	5.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
61	2	2	14.80	9.111	31.1	0.0	5.7	5.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
62	2	2	14.70	8.778	31.1	0.0	5.6	5.7	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
63	2	2	14.60	8.446	31.1	0.0	5.6	5.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
64	2	2	14.50	8.113	31.1	0.0	5.5	6.1	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
65	2	2	14.40	7.780	31.1	0.0	5.4	6.2	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
66	2	2	14.30	7.448	31.1	0.0	5.4	6.4	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
67	2	2	14.20	7.115	31.1	0.0	5.3	6.5	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
68	2	2	14.10	6.782	31.1	0.0	5.3	6.6	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
69	2	2	14.00	6.450	31.1	0.0	5.2	6.8	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
70	2	2	13.90	6.117	31.1	0.0	5.2	6.9	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
71	2	2	13.80	5.784	31.1	0.0	5.1	7.1	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
72	2	2	13.70	5.452	31.1	0.0	5.1	7.2	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
73	2	2	13.60	5.119	31.1	0.0	5.0	7.3	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
74	2	2	13.50	4.786	31.1	0.0	5.0	7.4	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
75	2	2	13.40	4.454	31.1	0.0	4.9	7.5	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
76	2	2	13.30	4.121	31.1	0.0	4.9	7.6	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
77	2	2	13.20	3.788	31.1	0.0	4.9	7.6	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.002	0.002	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
78	3	3	13.10	3.791	31.1	0.0	4.8	7.6	0.0	1.3	0.1	20.8	0.4	1.55	25.0	0.098	0.098	7.4	0.781	0.52	0.00	0.00	0.00	0.44	5.03
79	3	3	13.00	3.793	31.1	0.0	4.8	7.6	0.0	1.3	0.1	21.7	0.4	1.55	25.0	0.098	0.098	7.4	0.781	0.52	0.00	0.00	0.00	0.44	5.03
80	3	3	12.90	3.795	31.1	0.0	4.7	7.6	0.0	1.3	0.1	22.5	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
81	3	3	12.80	3.797	31.1	0.0	4.7	7.6	0.0	1.3	0.1	23.4	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
82	3	3	12.70	3.799	31.1	0.0	4.7	7.5	0.0	1.3	0.1	24.2	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
83	3	3	12.60	3.801	31.1	0.0	4.6	7.5	0.0	1.3	0.1	25.1	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
84	3	3	12.50	3.804	31.1	0.0	4.6	7.5	0.0	1.3	0.1	25.9	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.44	5.03
85	3	3	12.40	3.806	31.1	0.0	4.6	7.5	0.0	1.3	0.1	26.8	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
86	3	3	12.30	3.808	31.1	0.0	4.5	7.5	0.0	1.3	0.1	27.6	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
87	3	3	12.20	3.810	31.1	0.0	4.5	7.5	0.0	1.3	0.1	28.5	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
88	3	3	12.10	3.812	31.1	0.0	4.5	7.5	0.0	1.3	0.1	29.3	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
89	3	3	12.00	3.815	31.1	0.0	4.4	7.4	0.0	1.3	0.1	30.2	0.4	1.55	25.0	0.098	0.098	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
90	3	3	11.90	3.817	31.1	0.0	4.4	7.4	0.0	1.3	0.1	31.0	0.4	1.55	25.0	0.098	0.098	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
91	3	3	11.80	3.819	31.1	0.0	4.4	7.4	0.0	1.3	0.1	31.8	0.4	1.55	25.0	0.099	0.099	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03

92	3	3	11.70	3.821	31.1	0.0	4.4	7.4	0.0	1.3	0.1	32.7	0.4	1.55	25.0	0.099	0.099	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
93	3	3	11.60	3.823	31.1	0.0	4.3	7.4	0.0	1.3	0.1	33.5	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
94	3	3	11.50	3.825	31.1	0.0	4.3	7.4	0.0	1.3	0.1	34.4	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
95	3	3	11.40	3.828	31.1	0.0	4.3	7.3	0.0	1.3	0.1	35.2	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
96	3	3	11.30	3.830	31.1	0.0	4.3	7.3	0.0	1.3	0.1	36.1	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
97	3	3	11.20	3.832	31.1	0.0	4.3	7.3	0.0	1.3	0.1	36.9	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
98	3	3	11.10	3.834	31.1	0.0	4.2	7.3	0.0	1.3	0.1	37.8	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
99	3	3	11.00	3.836	31.1	0.0	4.2	7.3	0.0	1.3	0.1	38.6	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
100	3	3	10.90	3.839	31.1	0.0	4.2	7.3	0.0	1.3	0.1	39.5	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
101	3	3	10.80	3.841	31.1	0.0	4.2	7.3	0.0	1.3	0.1	40.3	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
102	3	3	10.70	3.843	31.1	0.0	4.2	7.2	0.0	1.3	0.1	41.2	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.43	5.03
103	3	3	10.60	3.845	31.1	0.0	4.2	7.2	0.0	1.3	0.1	42.0	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
104	3	3	10.50	3.847	31.1	0.0	4.2	7.2	0.0	1.4	0.1	42.8	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
105	3	3	10.40	3.849	31.1	0.0	4.1	7.2	0.0	1.4	0.1	43.7	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
106	3	3	10.30	3.852	31.1	0.0	4.1	7.2	0.0	1.4	0.1	44.5	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
107	3	3	10.20	3.854	31.1	0.0	4.1	7.2	0.0	1.4	0.1	45.4	0.4	1.55	25.0	0.099	0.099	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
108	3	3	10.10	3.856	31.1	0.0	4.1	7.2	0.0	1.4	0.1	46.2	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
109	3	3	10.00	3.858	31.1	0.0	4.1	7.2	0.0	1.4	0.1	47.1	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
110	3	3	9.90	3.860	31.1	0.0	4.1	7.1	0.0	1.4	0.1	47.9	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
111	3	3	9.80	3.863	31.1	0.0	4.1	7.1	0.0	1.4	0.1	48.8	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
112	3	3	9.70	3.865	31.1	0.0	4.1	7.1	0.0	1.4	0.1	49.6	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
113	3	3	9.60	3.867	31.1	0.0	4.1	7.1	0.0	1.4	0.1	50.5	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
114	3	3	9.50	3.869	31.1	0.0	4.1	7.1	0.0	1.4	0.1	51.3	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
115	3	3	9.40	3.871	31.1	0.0	4.1	7.1	0.0	1.4	0.1	52.2	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
116	3	3	9.30	3.873	31.1	0.0	4.1	7.1	0.0	1.4	0.1	53.0	0.4	1.55	25.0	0.100	0.100	7.4	0.790	0.52	0.00	0.00	0.00	0.42	5.03
117	4	4	9.20	3.873	31.1	0.0	4.1	7.1	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
118	4	4	9.10	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
119	4	4	9.00	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
120	4	4	8.90	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
121	4	4	8.80	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
122	4	4	8.70	3.873	31.1	0.0	4.2	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
123	4	4	8.60	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
124	4	4	8.50	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
125	4	4	8.40	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
126	4	4	8.30	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
127	4	4	8.20	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
128	4	4	8.10	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
129	4	4	8.00	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
130	4	4	7.90	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
131	4	4	7.80	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
132	4	4	7.70	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
133	4	4	7.60	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
134	4	4	7.50	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
135	4	4	7.40	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
136	4	4	7.30	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
137	4	4	7.20	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
138	4	4	7.10	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
139	4	4	7.00	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
140	4	4	6.90	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
141	4	4	6.80	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02

142	4	4	6.70	3.873	31.1	0.0	4.3	6.6	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
TRIBUTARY # 143 (Lake Theriot) ENTERS HERE																										
172	7	7	6.60	4.383	31.1	0.0	4.7	6.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
173	7	7	6.50	4.383	31.1	0.0	4.7	6.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
174	7	7	6.40	4.383	31.1	0.0	4.7	6.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
175	7	7	6.30	4.383	31.1	0.0	4.7	6.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
176	7	7	6.20	4.383	31.1	0.0	4.7	6.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
177	7	7	6.10	4.383	31.1	0.0	4.7	6.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
178	7	7	6.00	4.383	31.1	0.0	4.7	6.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
179	7	7	5.90	4.383	31.1	0.0	4.7	6.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
180	7	7	5.80	4.383	31.1	0.0	4.7	5.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
181	7	7	5.70	4.383	31.1	0.0	4.7	5.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
182	7	7	5.60	4.383	31.1	0.0	4.7	5.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
183	7	7	5.50	4.383	31.1	0.0	4.7	5.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
184	7	7	5.40	4.383	31.1	0.0	4.7	5.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
185	7	7	5.30	4.383	31.1	0.0	4.7	5.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
186	7	7	5.20	4.383	31.1	0.0	4.7	5.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
187	7	7	5.10	4.383	31.1	0.0	4.7	5.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
188	7	7	5.00	4.383	31.1	0.0	4.8	5.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
189	7	7	4.90	4.383	31.1	0.0	4.8	5.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
190	7	7	4.80	4.383	31.1	0.0	4.8	5.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
191	7	7	4.70	4.383	31.1	0.0	4.8	5.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
192	7	7	4.60	4.383	31.1	0.0	4.8	5.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
193	7	7	4.50	4.383	31.1	0.0	4.8	5.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
194	7	7	4.40	4.383	31.1	0.0	4.8	5.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
195	7	7	4.30	4.383	31.1	0.0	4.8	5.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
196	7	7	4.20	4.383	31.1	0.0	4.8	5.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
197	7	7	4.10	4.383	31.1	0.0	4.9	5.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
198	7	7	4.00	4.383	31.1	0.0	4.9	5.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
199	7	7	3.90	4.383	31.1	0.0	4.9	4.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
200	7	7	3.80	4.383	31.1	0.0	4.9	4.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
201	7	7	3.70	4.383	31.1	0.0	4.9	4.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
202	7	7	3.60	4.383	31.1	0.0	4.9	4.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
203	7	7	3.50	4.383	31.1	0.0	4.9	4.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
204	7	7	3.40	4.383	31.1	0.0	4.9	4.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
205	7	7	3.30	4.383	31.1	0.0	5.0	4.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
206	7	7	3.20	4.383	31.1	0.0	5.0	4.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
207	7	7	3.10	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
208	7	7	3.00	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
209	7	7	2.90	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
210	7	7	2.80	4.383	31.1	0.0	5.0	4.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
211	7	7	2.70	4.383	31.1	0.0	5.1	4.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
212	7	7	2.60	4.383	31.1	0.0	5.1	4.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
213	7	7	2.50	4.383	31.1	0.0	5.1	4.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
214	7	7	2.40	4.383	31.1	0.0	5.1	4.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.45	4.02
215	7	7	2.30	4.383	31.1	0.0	5.1	4.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.45	4.02

216	8	8	2.20	4.383	31.1	0.0	5.2	4.1	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
217	8	8	2.10	4.383	31.1	0.0	5.2	4.0	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
218	8	8	2.00	4.383	31.1	0.0	5.2	3.9	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
219	8	8	1.90	4.383	31.1	0.0	5.3	3.8	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
220	8	8	1.80	4.383	31.1	0.0	5.3	3.7	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
221	8	8	1.70	4.383	31.1	0.0	5.4	3.7	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
222	8	8	1.60	4.383	31.1	0.0	5.4	3.6	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
223	8	8	1.50	4.383	31.1	0.0	5.4	3.5	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
224	9	9	1.40	4.383	31.1	0.0	5.5	3.5	0.0	1.3	0.1	57.6	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
225	9	9	1.30	4.383	31.1	0.0	5.5	3.5	0.0	1.3	0.1	62.1	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
226	9	9	1.20	4.383	31.1	0.0	5.5	3.4	0.0	1.3	0.1	66.7	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
227	9	9	1.10	4.383	31.1	0.0	5.5	3.4	0.0	1.3	0.1	71.2	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
228	9	9	1.00	4.383	31.1	0.0	5.6	3.4	0.0	1.3	0.1	75.8	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
229	9	9	0.90	4.383	31.1	0.0	5.6	3.4	0.0	1.3	0.1	80.3	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
230	9	9	0.80	4.383	31.1	0.0	5.7	3.3	0.0	1.3	0.1	84.9	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02
231	9	9	0.70	4.383	31.1	0.0	5.7	3.3	0.0	1.3	0.1	89.4	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02
232	9	9	0.60	4.383	31.1	0.0	5.8	3.3	0.0	1.3	0.1	94.0	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02
TRIBUTARY # 233 (Lake Hache) ENTERS HERE																									
244	12	12	0.50	4.496	31.3	0.0	5.9	3.8	0.0	1.3	0.1	78.3	0.1	1.55	20.0	0.145	0.145	7.4	0.955	0.52	0.00	0.00	0.00	0.47	4.08
245	12	12	0.40	4.496	31.5	0.0	5.9	3.8	0.0	1.3	0.1	62.7	0.1	1.55	20.0	0.145	0.145	7.4	0.958	0.53	0.00	0.00	0.00	0.48	4.13
246	12	12	0.30	4.496	31.8	0.0	5.9	3.7	0.0	1.3	0.1	47.0	0.1	1.55	20.0	0.145	0.145	7.3	0.962	0.53	0.00	0.00	0.00	0.48	4.19
247	12	12	0.20	4.496	32.0	0.0	5.9	3.7	0.0	1.3	0.1	31.4	0.1	1.55	20.0	0.145	0.145	7.3	0.965	0.54	0.00	0.00	0.00	0.49	4.25
248	12	12	0.10	4.496	32.2	0.0	5.9	3.7	0.0	1.3	0.1	15.7	0.1	1.55	20.0	0.145	0.145	7.3	0.969	0.54	0.00	0.00	0.00	0.50	4.31
249	12	12	0.00	4.496	32.4	0.0	5.8	3.7	0.0	1.3	0.1	0.1	0.1	1.55	20.0	0.145	0.145	7.3	0.972	0.55	0.00	0.00	0.00	0.51	4.37

EXPANDED CAPSULE SUMMARY FOR Lake Theriot

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
143	5	5	2.80	0.030	31.1	0.0	6.7	3.6	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
144	5	5	2.70	0.050	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
145	5	5	2.60	0.070	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
146	5	5	2.50	0.090	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
147	5	5	2.40	0.110	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
148	5	5	2.30	0.130	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
149	5	5	2.20	0.150	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
150	5	5	2.10	0.170	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
151	5	5	2.00	0.190	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
152	5	5	1.90	0.210	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
153	5	5	1.80	0.230	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
154	5	5	1.70	0.250	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
155	5	5	1.60	0.270	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
156	5	5	1.50	0.290	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
157	5	5	1.40	0.310	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
158	5	5	1.30	0.330	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
159	5	5	1.20	0.350	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
160	5	5	1.10	0.370	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
161	5	5	1.00	0.390	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
162	5	5	0.90	0.410	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
163	5	5	0.80	0.430	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
164	5	5	0.70	0.450	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02

165	5	5	0.60	0.470	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
166	5	5	0.50	0.490	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
167	6	6	0.40	0.494	31.1	0.0	6.8	4.0	0.0	0.8	0.0	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
168	6	6	0.30	0.498	31.1	0.0	6.9	4.2	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
169	6	6	0.20	0.502	31.1	0.0	7.0	4.5	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
170	6	6	0.10	0.506	31.1	0.0	7.0	4.7	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
171	6	6	0.00	0.510	31.1	0.0	6.5	5.3	0.0	1.0	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02

EXPANDED CAPSULE SUMMARY FOR Lake Hache

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	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
233	10	10	1.00	0.011	31.1	0.0	8.7	26.1	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
234	10	10	0.90	0.021	31.1	0.0	8.7	25.1	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
235	10	10	0.80	0.030	31.1	0.0	8.7	24.9	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
236	10	10	0.70	0.040	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
237	10	10	0.60	0.050	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
238	10	10	0.50	0.060	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
239	10	10	0.40	0.070	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
240	10	10	0.30	0.079	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
241	10	10	0.20	0.089	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
242	10	10	0.10	0.099	31.1	0.0	8.7	21.5	0.0	1.7	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
243	11	11	0.00	0.113	31.1	0.0	6.9	11.9	0.0	1.5	0.1	94.0	0.1	1.55	50.0	0.001	0.001	7.4	0.554	0.52	0.00	0.00	0.00	0.47	4.02

SPECIAL REPORT: Lake de Cade

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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	CHL A #/100mL	MACRO *	COLI	NCM
1	20.800	31.10	0.0	0.0	0.0	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.0	0.0	0.	0.00
2	20.700	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.0	0.0	0.	0.00
3	20.600	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
4	20.500	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
5	20.400	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
6	20.300	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
7	20.200	31.10	0.0	0.0	0.0	6.49	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.92	0.00	20.0	0.0	0.	0.00
8	20.100	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
9	20.000	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
10	19.900	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
11	19.800	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
12	19.700	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
13	19.600	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.0	0.0	0.	0.00
14	19.500	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.89	0.07	0.00	0.95	0.00	20.0	0.0	0.	0.00
15	19.400	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.0	0.0	0.	0.00
16	19.300	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
17	19.200	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
18	19.100	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
19	19.000	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
20	18.900	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
21	18.800	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
22	18.700	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
23	18.600	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00
24	18.500	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00

25	18.400	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
26	18.300	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
27	18.200	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
28	18.100	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
29	18.000	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.96	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
30	17.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
31	17.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
32	17.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
33	17.600	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
34	17.500	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
35	17.400	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
36	17.300	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
37	17.200	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
38	17.100	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
39	17.000	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
40	16.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
41	16.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
42	16.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
43	16.600	31.10	0.0	0.0	0.0	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
44	16.500	31.10	0.0	0.0	0.0	6.54	2.78	0.00	2.78	0.00	1.02	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
45	16.400	31.10	0.0	0.0	0.0	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
46	16.300	31.10	0.0	0.0	0.0	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
47	16.200	31.10	0.0	0.0	0.0	6.47	3.06	0.00	3.06	0.00	1.03	0.06	0.00	1.09	0.00	20.0	0.0	0.	0.00
48	16.100	31.10	0.0	0.0	0.0	6.43	3.26	0.00	3.26	0.00	1.04	0.06	0.00	1.10	0.00	20.0	0.0	0.	0.00
49	16.000	31.10	0.0	0.0	0.0	6.38	3.45	0.00	3.45	0.00	1.04	0.07	0.00	1.11	0.00	20.0	0.0	0.	0.00
50	15.900	31.10	0.0	0.0	0.0	6.33	3.64	0.00	3.64	0.00	1.05	0.07	0.00	1.12	0.00	20.0	0.0	0.	0.00
51	15.800	31.10	0.0	0.0	0.0	6.28	3.83	0.00	3.83	0.00	1.06	0.07	0.00	1.13	0.00	20.0	0.0	0.	0.00
52	15.700	31.10	0.0	0.0	0.0	6.22	4.02	0.00	4.02	0.00	1.06	0.07	0.00	1.14	0.00	20.0	0.0	0.	0.00
53	15.600	31.10	0.0	0.0	0.0	6.17	4.20	0.00	4.20	0.00	1.07	0.08	0.00	1.15	0.00	20.0	0.0	0.	0.00
54	15.500	31.10	0.0	0.0	0.0	6.11	4.39	0.00	4.39	0.00	1.08	0.08	0.00	1.16	0.00	20.0	0.0	0.	0.00
55	15.400	31.10	0.0	0.0	0.0	6.05	4.57	0.00	4.57	0.00	1.09	0.08	0.00	1.17	0.00	20.0	0.0	0.	0.00
56	15.300	31.10	0.0	0.0	0.0	5.99	4.74	0.00	4.74	0.00	1.09	0.08	0.00	1.18	0.00	20.0	0.0	0.	0.00
57	15.200	31.10	0.0	0.0	0.0	5.93	4.92	0.00	4.92	0.00	1.10	0.09	0.00	1.19	0.00	20.0	0.0	0.	0.00
58	15.100	31.10	0.0	0.0	0.0	5.87	5.09	0.00	5.09	0.00	1.11	0.09	0.00	1.20	0.00	20.0	0.0	0.	0.00
59	15.000	31.10	0.0	0.0	0.0	5.81	5.26	0.00	5.26	0.00	1.12	0.09	0.00	1.21	0.00	20.0	0.0	0.	0.00
60	14.900	31.10	0.0	0.0	0.0	5.75	5.42	0.00	5.42	0.00	1.12	0.09	0.00	1.22	0.00	20.0	0.0	0.	0.00
61	14.800	31.10	0.0	0.0	0.0	5.69	5.59	0.00	5.59	0.00	1.13	0.09	0.00	1.23	0.00	20.0	0.0	0.	0.00
62	14.700	31.10	0.0	0.0	0.0	5.63	5.75	0.00	5.75	0.00	1.14	0.10	0.00	1.24	0.00	20.0	0.0	0.	0.00
63	14.600	31.10	0.0	0.0	0.0	5.57	5.90	0.00	5.90	0.00	1.15	0.10	0.00	1.25	0.00	20.0	0.0	0.	0.00
64	14.500	31.10	0.0	0.0	0.0	5.51	6.06	0.00	6.06	0.00	1.16	0.10	0.00	1.26	0.00	20.0	0.0	0.	0.00
65	14.400	31.10	0.0	0.0	0.0	5.45	6.21	0.00	6.21	0.00	1.17	0.10	0.00	1.27	0.00	20.0	0.0	0.	0.00
66	14.300	31.10	0.0	0.0	0.0	5.39	6.36	0.00	6.36	0.00	1.18	0.10	0.00	1.28	0.00	20.0	0.0	0.	0.00
67	14.200	31.10	0.0	0.0	0.0	5.33	6.51	0.00	6.51	0.00	1.19	0.10	0.00	1.29	0.00	20.0	0.0	0.	0.00
68	14.100	31.10	0.0	0.0	0.0	5.27	6.65	0.00	6.65	0.00	1.20	0.10	0.00	1.30	0.00	20.0	0.0	0.	0.00
69	14.000	31.10	0.0	0.0	0.0	5.22	6.79	0.00	6.79	0.00	1.21	0.10	0.00	1.31	0.00	20.0	0.0	0.	0.00
70	13.900	31.10	0.0	0.0	0.0	5.16	6.92	0.00	6.92	0.00	1.22	0.11	0.00	1.32	0.00	20.0	0.0	0.	0.00
71	13.800	31.10	0.0	0.0	0.0	5.10	7.05	0.00	7.05	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
72	13.700	31.10	0.0	0.0	0.0	5.05	7.18	0.00	7.18	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
73	13.600	31.10	0.0	0.0	0.0	5.00	7.29	0.00	7.29	0.00	1.25	0.11	0.00	1.36	0.00	20.0	0.0	0.	0.00
74	13.500	31.10	0.0	0.0	0.0	4.95	7.40	0.00	7.40	0.00	1.26	0.11	0.00	1.37	0.00	20.0	0.0	0.	0.00

75	13.400	31.10	0.0	0.0	0.0	4.91	7.50	0.00	7.50	0.00	1.27	0.11	0.00	1.38	0.00	20.0	0.0	0.	0.00
76	13.300	31.10	0.0	0.0	0.0	4.88	7.57	0.00	7.57	0.00	1.28	0.11	0.00	1.39	0.00	20.0	0.0	0.	0.00
77	13.200	31.10	0.0	0.0	0.0	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	1.40	0.00	20.0	0.0	0.	0.00
78	13.100	31.10	0.0	0.0	0.0	4.83	7.61	0.00	7.61	0.00	1.29	0.11	0.00	1.40	0.00	20.8	0.0	0.	0.00
79	13.000	31.10	0.0	0.0	0.0	4.79	7.59	0.00	7.59	0.00	1.29	0.11	0.00	1.40	0.00	21.7	0.0	0.	0.00
80	12.900	31.10	0.0	0.0	0.0	4.75	7.58	0.00	7.58	0.00	1.29	0.11	0.00	1.40	0.00	22.5	0.0	0.	0.00
81	12.800	31.10	0.0	0.0	0.0	4.71	7.56	0.00	7.56	0.00	1.29	0.11	0.00	1.41	0.00	23.4	0.0	0.	0.00
82	12.700	31.10	0.0	0.0	0.0	4.67	7.54	0.00	7.54	0.00	1.30	0.11	0.00	1.41	0.00	24.2	0.0	0.	0.00
83	12.600	31.10	0.0	0.0	0.0	4.64	7.53	0.00	7.53	0.00	1.30	0.11	0.00	1.41	0.00	25.1	0.0	0.	0.00
84	12.500	31.10	0.0	0.0	0.0	4.60	7.51	0.00	7.51	0.00	1.30	0.11	0.00	1.41	0.00	25.9	0.0	0.	0.00
85	12.400	31.10	0.0	0.0	0.0	4.57	7.50	0.00	7.50	0.00	1.30	0.11	0.00	1.42	0.00	26.8	0.0	0.	0.00
86	12.300	31.10	0.0	0.0	0.0	4.54	7.48	0.00	7.48	0.00	1.31	0.11	0.00	1.42	0.00	27.6	0.0	0.	0.00
87	12.200	31.10	0.0	0.0	0.0	4.51	7.47	0.00	7.47	0.00	1.31	0.11	0.00	1.42	0.00	28.5	0.0	0.	0.00
88	12.100	31.10	0.0	0.0	0.0	4.48	7.45	0.00	7.45	0.00	1.31	0.11	0.00	1.42	0.00	29.3	0.0	0.	0.00
89	12.000	31.10	0.0	0.0	0.0	4.45	7.44	0.00	7.44	0.00	1.31	0.11	0.00	1.43	0.00	30.2	0.0	0.	0.00
90	11.900	31.10	0.0	0.0	0.0	4.42	7.42	0.00	7.42	0.00	1.32	0.11	0.00	1.43	0.00	31.0	0.0	0.	0.00
91	11.800	31.10	0.0	0.0	0.0	4.39	7.41	0.00	7.41	0.00	1.32	0.11	0.00	1.43	0.00	31.8	0.0	0.	0.00
92	11.700	31.10	0.0	0.0	0.0	4.37	7.39	0.00	7.39	0.00	1.32	0.11	0.00	1.43	0.00	32.7	0.0	0.	0.00
93	11.600	31.10	0.0	0.0	0.0	4.34	7.38	0.00	7.38	0.00	1.32	0.11	0.00	1.44	0.00	33.5	0.0	0.	0.00
94	11.500	31.10	0.0	0.0	0.0	4.32	7.36	0.00	7.36	0.00	1.33	0.11	0.00	1.44	0.00	34.4	0.0	0.	0.00
95	11.400	31.10	0.0	0.0	0.0	4.30	7.35	0.00	7.35	0.00	1.33	0.11	0.00	1.44	0.00	35.2	0.0	0.	0.00
96	11.300	31.10	0.0	0.0	0.0	4.28	7.33	0.00	7.33	0.00	1.33	0.11	0.00	1.45	0.00	36.1	0.0	0.	0.00
97	11.200	31.10	0.0	0.0	0.0	4.26	7.32	0.00	7.32	0.00	1.33	0.11	0.00	1.45	0.00	36.9	0.0	0.	0.00
98	11.100	31.10	0.0	0.0	0.0	4.24	7.30	0.00	7.30	0.00	1.34	0.11	0.00	1.45	0.00	37.8	0.0	0.	0.00
99	11.000	31.10	0.0	0.0	0.0	4.23	7.29	0.00	7.29	0.00	1.34	0.11	0.00	1.45	0.00	38.6	0.0	0.	0.00
100	10.900	31.10	0.0	0.0	0.0	4.21	7.28	0.00	7.28	0.00	1.34	0.11	0.00	1.46	0.00	39.5	0.0	0.	0.00
101	10.800	31.10	0.0	0.0	0.0	4.20	7.26	0.00	7.26	0.00	1.34	0.11	0.00	1.46	0.00	40.3	0.0	0.	0.00
102	10.700	31.10	0.0	0.0	0.0	4.18	7.25	0.00	7.25	0.00	1.35	0.11	0.00	1.46	0.00	41.2	0.0	0.	0.00
103	10.600	31.10	0.0	0.0	0.0	4.17	7.24	0.00	7.24	0.00	1.35	0.11	0.00	1.46	0.00	42.0	0.0	0.	0.00
104	10.500	31.10	0.0	0.0	0.0	4.16	7.22	0.00	7.22	0.00	1.35	0.11	0.00	1.47	0.00	42.8	0.0	0.	0.00
105	10.400	31.10	0.0	0.0	0.0	4.15	7.21	0.00	7.21	0.00	1.35	0.11	0.00	1.47	0.00	43.7	0.0	0.	0.00
106	10.300	31.10	0.0	0.0	0.0	4.14	7.20	0.00	7.20	0.00	1.36	0.11	0.00	1.47	0.00	44.5	0.0	0.	0.00
107	10.200	31.10	0.0	0.0	0.0	4.13	7.18	0.00	7.18	0.00	1.36	0.11	0.00	1.47	0.00	45.4	0.0	0.	0.00
108	10.100	31.10	0.0	0.0	0.0	4.12	7.17	0.00	7.17	0.00	1.36	0.12	0.00	1.48	0.00	46.2	0.0	0.	0.00
109	10.000	31.10	0.0	0.0	0.0	4.11	7.16	0.00	7.16	0.00	1.36	0.12	0.00	1.48	0.00	47.1	0.0	0.	0.00
110	9.900	31.10	0.0	0.0	0.0	4.11	7.14	0.00	7.14	0.00	1.37	0.12	0.00	1.48	0.00	47.9	0.0	0.	0.00
111	9.800	31.10	0.0	0.0	0.0	4.10	7.13	0.00	7.13	0.00	1.37	0.12	0.00	1.48	0.00	48.8	0.0	0.	0.00
112	9.700	31.10	0.0	0.0	0.0	4.10	7.12	0.00	7.12	0.00	1.37	0.12	0.00	1.49	0.00	49.6	0.0	0.	0.00
113	9.600	31.10	0.0	0.0	0.0	4.10	7.10	0.00	7.10	0.00	1.37	0.12	0.00	1.49	0.00	50.5	0.0	0.	0.00
114	9.500	31.10	0.0	0.0	0.0	4.09	7.09	0.00	7.09	0.00	1.38	0.12	0.00	1.49	0.00	51.3	0.0	0.	0.00
115	9.400	31.10	0.0	0.0	0.0	4.09	7.08	0.00	7.08	0.00	1.38	0.12	0.00	1.49	0.00	52.2	0.0	0.	0.00
116	9.300	31.10	0.0	0.0	0.0	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
117	9.200	31.10	0.0	0.0	0.0	4.10	7.05	0.00	7.05	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
118	9.100	31.10	0.0	0.0	0.0	4.11	7.03	0.00	7.03	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
119	9.000	31.10	0.0	0.0	0.0	4.12	7.02	0.00	7.02	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
120	8.900	31.10	0.0	0.0	0.0	4.13	7.00	0.00	7.00	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
121	8.800	31.10	0.0	0.0	0.0	4.14	6.98	0.00	6.98	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
122	8.700	31.10	0.0	0.0	0.0	4.15	6.97	0.00	6.97	0.00	1.38	0.12	0.00	1.49	0.00	53.0	0.0	0.	0.00
123	8.600	31.10	0.0	0.0	0.0	4.16	6.95	0.00	6.95	0.00	1.38	0.12	0.00	1.49	0.00	53.0	0.0	0.	0.00
124	8.500	31.10	0.0	0.0	0.0	4.17	6.93	0.00	6.93	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00

125	8.400	31.10	0.0	0.0	0.0	4.18	6.92	0.00	6.92	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
126	8.300	31.10	0.0	0.0	0.0	4.19	6.90	0.00	6.90	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
127	8.200	31.10	0.0	0.0	0.0	4.20	6.88	0.00	6.88	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
128	8.100	31.10	0.0	0.0	0.0	4.21	6.87	0.00	6.87	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
129	8.000	31.10	0.0	0.0	0.0	4.22	6.85	0.00	6.85	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
130	7.900	31.10	0.0	0.0	0.0	4.23	6.83	0.00	6.83	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
131	7.800	31.10	0.0	0.0	0.0	4.24	6.82	0.00	6.82	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
132	7.700	31.10	0.0	0.0	0.0	4.25	6.80	0.00	6.80	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
133	7.600	31.10	0.0	0.0	0.0	4.26	6.79	0.00	6.79	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
134	7.500	31.10	0.0	0.0	0.0	4.27	6.77	0.00	6.77	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
135	7.400	31.10	0.0	0.0	0.0	4.28	6.75	0.00	6.75	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
136	7.300	31.10	0.0	0.0	0.0	4.28	6.74	0.00	6.74	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
137	7.200	31.10	0.0	0.0	0.0	4.29	6.72	0.00	6.72	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
138	7.100	31.10	0.0	0.0	0.0	4.30	6.71	0.00	6.71	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
139	7.000	31.10	0.0	0.0	0.0	4.31	6.69	0.00	6.69	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
140	6.900	31.10	0.0	0.0	0.0	4.32	6.67	0.00	6.67	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
141	6.800	31.10	0.0	0.0	0.0	4.33	6.66	0.00	6.66	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
142	6.700	31.10	0.0	0.0	0.0	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
172	6.600	31.10	0.0	0.0	0.0	4.67	6.37	0.00	6.37	0.00	1.32	0.11	0.00	1.43	0.00	53.0	0.0	0.	0.00
173	6.500	31.10	0.0	0.0	0.0	4.68	6.31	0.00	6.31	0.00	1.32	0.11	0.00	1.43	0.00	53.0	0.0	0.	0.00
174	6.400	31.10	0.0	0.0	0.0	4.68	6.25	0.00	6.25	0.00	1.32	0.11	0.00	1.42	0.00	53.0	0.0	0.	0.00
175	6.300	31.10	0.0	0.0	0.0	4.68	6.19	0.00	6.19	0.00	1.32	0.11	0.00	1.42	0.00	53.0	0.0	0.	0.00
176	6.200	31.10	0.0	0.0	0.0	4.68	6.13	0.00	6.13	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
177	6.100	31.10	0.0	0.0	0.0	4.69	6.07	0.00	6.07	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
178	6.000	31.10	0.0	0.0	0.0	4.69	6.01	0.00	6.01	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
179	5.900	31.10	0.0	0.0	0.0	4.69	5.96	0.00	5.96	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
180	5.800	31.10	0.0	0.0	0.0	4.70	5.90	0.00	5.90	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
181	5.700	31.10	0.0	0.0	0.0	4.70	5.84	0.00	5.84	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
182	5.600	31.10	0.0	0.0	0.0	4.71	5.79	0.00	5.79	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
183	5.500	31.10	0.0	0.0	0.0	4.72	5.73	0.00	5.73	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
184	5.400	31.10	0.0	0.0	0.0	4.72	5.67	0.00	5.67	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
185	5.300	31.10	0.0	0.0	0.0	4.73	5.62	0.00	5.62	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
186	5.200	31.10	0.0	0.0	0.0	4.74	5.57	0.00	5.57	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
187	5.100	31.10	0.0	0.0	0.0	4.75	5.51	0.00	5.51	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
188	5.000	31.10	0.0	0.0	0.0	4.76	5.46	0.00	5.46	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
189	4.900	31.10	0.0	0.0	0.0	4.76	5.41	0.00	5.41	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
190	4.800	31.10	0.0	0.0	0.0	4.77	5.35	0.00	5.35	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
191	4.700	31.10	0.0	0.0	0.0	4.78	5.30	0.00	5.30	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
192	4.600	31.10	0.0	0.0	0.0	4.79	5.25	0.00	5.25	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
193	4.500	31.10	0.0	0.0	0.0	4.81	5.20	0.00	5.20	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
194	4.400	31.10	0.0	0.0	0.0	4.82	5.15	0.00	5.15	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
195	4.300	31.10	0.0	0.0	0.0	4.83	5.10	0.00	5.10	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
196	4.200	31.10	0.0	0.0	0.0	4.84	5.05	0.00	5.05	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
197	4.100	31.10	0.0	0.0	0.0	4.85	5.00	0.00	5.00	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
198	4.000	31.10	0.0	0.0	0.0	4.86	4.96	0.00	4.96	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
199	3.900	31.10	0.0	0.0	0.0	4.88	4.91	0.00	4.91	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
200	3.800	31.10	0.0	0.0	0.0	4.89	4.86	0.00	4.86	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
201	3.700	31.10	0.0	0.0	0.0	4.90	4.81	0.00	4.81	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
202	3.600	31.10	0.0	0.0	0.0	4.92	4.77	0.00	4.77	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
203	3.500	31.10	0.0	0.0	0.0	4.93	4.72	0.00	4.72	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00

204	3.400	31.10	0.0	0.0	0.0	4.95	4.68	0.00	4.68	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
205	3.300	31.10	0.0	0.0	0.0	4.96	4.63	0.00	4.63	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
206	3.200	31.10	0.0	0.0	0.0	4.97	4.59	0.00	4.59	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
207	3.100	31.10	0.0	0.0	0.0	4.99	4.54	0.00	4.54	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
208	3.000	31.10	0.0	0.0	0.0	5.01	4.50	0.00	4.50	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
209	2.900	31.10	0.0	0.0	0.0	5.02	4.46	0.00	4.46	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
210	2.800	31.10	0.0	0.0	0.0	5.04	4.41	0.00	4.41	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
211	2.700	31.10	0.0	0.0	0.0	5.05	4.37	0.00	4.37	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
212	2.600	31.10	0.0	0.0	0.0	5.07	4.33	0.00	4.33	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
213	2.500	31.10	0.0	0.0	0.0	5.09	4.29	0.00	4.29	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
214	2.400	31.10	0.0	0.0	0.0	5.10	4.25	0.00	4.25	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
215	2.300	31.10	0.0	0.0	0.0	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
216	2.200	31.10	0.0	0.0	0.0	5.16	4.11	0.00	4.11	0.00	1.31	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
217	2.100	31.10	0.0	0.0	0.0	5.19	4.01	0.00	4.01	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
218	2.000	31.10	0.0	0.0	0.0	5.23	3.92	0.00	3.92	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
219	1.900	31.10	0.0	0.0	0.0	5.27	3.83	0.00	3.83	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
220	1.800	31.10	0.0	0.0	0.0	5.31	3.75	0.00	3.75	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
221	1.700	31.10	0.0	0.0	0.0	5.35	3.66	0.00	3.66	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
222	1.600	31.10	0.0	0.0	0.0	5.39	3.58	0.00	3.58	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
223	1.500	31.10	0.0	0.0	0.0	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
224	1.400	31.10	0.0	0.0	0.0	5.46	3.48	0.00	3.48	0.00	1.30	0.08	0.00	1.38	0.00	57.6	0.0	0.	0.00
225	1.300	31.10	0.0	0.0	0.0	5.48	3.46	0.00	3.46	0.00	1.30	0.08	0.00	1.38	0.00	62.1	0.0	0.	0.00
226	1.200	31.10	0.0	0.0	0.0	5.51	3.43	0.00	3.43	0.00	1.30	0.08	0.00	1.38	0.00	66.7	0.0	0.	0.00
227	1.100	31.10	0.0	0.0	0.0	5.55	3.41	0.00	3.41	0.00	1.30	0.08	0.00	1.38	0.00	71.2	0.0	0.	0.00
228	1.000	31.10	0.0	0.0	0.0	5.59	3.39	0.00	3.39	0.00	1.30	0.08	0.00	1.38	0.00	75.8	0.0	0.	0.00
229	0.900	31.10	0.0	0.0	0.0	5.63	3.37	0.00	3.37	0.00	1.30	0.08	0.00	1.38	0.00	80.3	0.0	0.	0.00
230	0.800	31.10	0.0	0.0	0.0	5.68	3.35	0.00	3.35	0.00	1.30	0.08	0.00	1.38	0.00	84.9	0.0	0.	0.00
231	0.700	31.10	0.0	0.0	0.0	5.73	3.33	0.00	3.33	0.00	1.30	0.08	0.00	1.38	0.00	89.4	0.0	0.	0.00
232	0.600	31.10	0.0	0.0	0.0	5.79	3.31	0.00	3.31	0.00	1.30	0.08	0.00	1.38	0.00	94.0	0.0	0.	0.00
244	0.500	31.32	0.0	0.0	0.0	5.87	3.78	0.00	3.78	0.00	1.31	0.08	0.00	1.39	0.00	78.3	0.0	0.	0.00
245	0.400	31.53	0.0	0.0	0.0	5.89	3.77	0.00	3.77	0.00	1.31	0.08	0.00	1.39	0.00	62.7	0.0	0.	0.00
246	0.300	31.75	0.0	0.0	0.0	5.89	3.75	0.00	3.75	0.00	1.31	0.08	0.00	1.39	0.00	47.0	0.0	0.	0.00
247	0.200	31.97	0.0	0.0	0.0	5.89	3.73	0.00	3.73	0.00	1.31	0.08	0.00	1.39	0.00	31.4	0.0	0.	0.00
248	0.100	32.18	0.0	0.0	0.0	5.87	3.72	0.00	3.72	0.00	1.31	0.08	0.00	1.39	0.00	15.7	0.0	0.	0.00
249	0.000	32.40	0.0	0.0	0.0	5.84	3.72	0.00	3.72	0.00	1.29	0.08	0.00	1.37	0.00	0.1	0.0	0.	0.00

SPECIAL REPORT: Lake Theriot

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	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	CHL A	MACRO #/100mL	COLI	NCM *
143	2.800	31.10	0.0	0.0	0.0	6.66	3.64	0.00	3.64	0.00	0.84	0.04	0.00	0.89	0.00	53.0	0.0	0.	0.00	
144	2.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00	
145	2.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00	
146	2.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
147	2.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
148	2.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
149	2.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
150	2.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
151	2.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
152	1.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
153	1.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	

154	1.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
155	1.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
156	1.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
157	1.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
158	1.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
159	1.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
160	1.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
161	1.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
162	0.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
163	0.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
164	0.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
165	0.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
166	0.500	31.10	0.0	0.0	0.0	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
167	0.400	31.10	0.0	0.0	0.0	6.80	3.97	0.00	3.97	0.00	0.84	0.05	0.00	0.89	0.00	53.0	0.0	0.	0.00
168	0.300	31.10	0.0	0.0	0.0	6.91	4.22	0.00	4.22	0.00	0.85	0.05	0.00	0.91	0.00	53.0	0.0	0.	0.00
169	0.200	31.10	0.0	0.0	0.0	7.01	4.46	0.00	4.46	0.00	0.86	0.06	0.00	0.92	0.00	53.0	0.0	0.	0.00
170	0.100	31.10	0.0	0.0	0.0	7.02	4.74	0.00	4.74	0.00	0.88	0.07	0.00	0.95	0.00	53.0	0.0	0.	0.00
171	0.000	31.10	0.0	0.0	0.0	6.48	5.30	0.00	5.30	0.00	1.00	0.08	0.00	1.08	0.00	53.0	0.0	0.	0.00

SPECIAL REPORT: Lake Hache

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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 mg/L	TOTN mg/L	PHOS µg/L	CHL A **	MACRO #/100mL	COLI	NCM *
233	1.000	31.10	0.0	0.0	0.0	8.67	26.12	0.00	26.12	0.00	1.84	0.04	0.00	1.88	0.00	94.0	0.0	0.	0.00
234	0.900	31.10	0.0	0.0	0.0	8.68	25.14	0.00	25.14	0.00	1.83	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
235	0.800	31.10	0.0	0.0	0.0	8.68	24.91	0.00	24.91	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
236	0.700	31.10	0.0	0.0	0.0	8.68	24.82	0.00	24.82	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
237	0.600	31.10	0.0	0.0	0.0	8.68	24.77	0.00	24.77	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
238	0.500	31.10	0.0	0.0	0.0	8.69	24.75	0.00	24.75	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
239	0.400	31.10	0.0	0.0	0.0	8.69	24.74	0.00	24.74	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
240	0.300	31.10	0.0	0.0	0.0	8.69	24.73	0.00	24.73	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
241	0.200	31.10	0.0	0.0	0.0	8.69	24.72	0.00	24.72	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
242	0.100	31.10	0.0	0.0	0.0	8.66	21.46	0.00	21.46	0.00	1.74	0.04	0.00	1.78	0.00	94.0	0.0	0.	0.00
243	0.000	31.10	0.0	0.0	0.0	6.86	11.94	0.00	11.94	0.00	1.53	0.10	0.00	1.63	0.00	94.0	0.0	0.	0.00

SPECIAL REPORT: Lake de Cade

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY 1/da	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
78	13.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
79	13.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
80	12.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
81	12.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
82	12.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
83	12.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
84	12.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
85	12.400	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
86	12.300	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
87	12.200	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
88	12.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
89	12.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
90	11.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00
91	11.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
92	11.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
93	11.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
94	11.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
95	11.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
96	11.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
97	11.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
98	11.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
99	11.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
100	10.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
101	10.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
102	10.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
103	10.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
104	10.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
105	10.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
106	10.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
107	10.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
108	10.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
109	10.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
110	9.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00
111	9.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
112	9.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00

113	9.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
114	9.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00
115	9.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
116	9.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
117	9.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
118	9.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
119	9.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
120	8.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
121	8.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
122	8.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
123	8.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
124	8.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
125	8.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
126	8.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
127	8.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
128	8.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
129	8.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
130	7.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
131	7.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
132	7.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
133	7.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
134	7.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
135	7.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
136	7.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
137	7.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
138	7.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
139	7.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
140	6.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
172	6.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
173	6.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
174	6.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
175	6.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
176	6.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
177	6.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
178	6.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
179	5.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
180	5.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
181	5.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
182	5.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
183	5.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
184	5.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
185	5.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
186	5.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
187	5.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
188	5.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
189	4.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
190	4.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
191	4.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

192	4.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
193	4.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
216	2.200	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
217	2.100	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
218	2.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
224	1.400	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00
225	1.300	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.17	0.00	0.00	0.00	0.00
226	1.200	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
227	1.100	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
228	1.000	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00
229	0.900	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
230	0.800	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
231	0.700	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
232	0.600	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
244	0.500	7.39	0.95	0.52	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.01	0.00	0.47	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
245	0.400	7.36	0.96	0.53	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.01	0.00	0.48	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
246	0.300	7.34	0.96	0.53	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.01	0.00	0.48	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
247	0.200	7.31	0.97	0.54	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.01	0.00	0.49	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
248	0.100	7.28	0.97	0.54	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.01	0.00	0.50	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
249	0.000	7.26	0.97	0.55	0.00	0.00	0.00	0.00	0.00	4.37	4.37	0.01	0.00	0.51	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake Theriot

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
143	2.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
144	2.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
145	2.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
146	2.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
147	2.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
148	2.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
149	2.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
150	2.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
151	2.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
152	1.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
153	1.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
154	1.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
155	1.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
156	1.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
157	1.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
158	1.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
159	1.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
160	1.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
161	1.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
162	0.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
163	0.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
164	0.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
165	0.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
166	0.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
167	0.400	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
168	0.300	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
169	0.200	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
170	0.100	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
171	0.000	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake Hache

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
233	1.000	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
234	0.900	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
235	0.800	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
236	0.700	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
237	0.600	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
238	0.500	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
239	0.400	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
240	0.300	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
241	0.200	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
242	0.100	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
243	0.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 1 Lake Hache incl 937 Calibration Simulation for Lake de Cade Theriot and Hache 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	PHOS #/100mL	CHL A	COLI	NCM
1	HDWTR	11.21353	31.10	0.00	0.00	0.00	6.50	2.72	0.00	2.72	0.00	0.80	0.10	0.04	0.00	20.00	0.00	0.00
EACH	INCR	0.06494	31.13	0.00	0.00	0.00	5.00	28.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00		
EACH	INCR	-0.00217																
23	WSTLD	0.00011	31.10	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	0.80	0.10	0.00	0.00	0.00	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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO m/s
1	20.90	20.80	11.27630	0.0	0.00476	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
2	20.80	20.70	11.33907	0.0	0.00479	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
3	20.70	20.60	11.40184	0.0	0.00482	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
4	20.60	20.50	11.46461	0.0	0.00484	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
5	20.50	20.40	11.52737	0.0	0.00487	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
6	20.40	20.30	11.59014	0.0	0.00490	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
7	20.30	20.20	11.65291	0.0	0.00492	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
8	20.20	20.10	11.71568	0.0	0.00495	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
9	20.10	20.00	11.77845	0.0	0.00498	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
10	20.00	19.90	11.84122	0.0	0.00500	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
11	19.90	19.80	11.90399	0.0	0.00503	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
12	19.80	19.70	11.96676	0.0	0.00506	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
13	19.70	19.60	12.02953	0.0	0.00508	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
14	19.60	19.50	12.09229	0.0	0.00511	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
15	19.50	19.40	12.15506	0.0	0.00514	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
16	19.40	19.30	12.21783	0.0	0.00516	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
17	19.30	19.20	12.28060	0.0	0.00519	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
18	19.20	19.10	12.34337	0.0	0.00522	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
19	19.10	19.00	12.40614	0.0	0.00524	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
20	19.00	18.90	12.46891	0.0	0.00527	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
21	18.90	18.80	12.53168	0.0	0.00529	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
22	18.80	18.70	12.59445	0.0	0.00532	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
23	18.70	18.60	12.65732	0.0	0.00535	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
24	18.60	18.50	12.72009	0.0	0.00537	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
25	18.50	18.40	12.78286	0.0	0.00540	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
26	18.40	18.30	12.84563	0.0	0.00543	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
27	18.30	18.20	12.90840	0.0	0.00545	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
28	18.20	18.10	12.97117	0.0	0.00548	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
29	18.10	18.00	13.03394	0.0	0.00551	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
30	18.00	17.90	13.09671	0.0	0.00553	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
31	17.90	17.80	13.15948	0.0	0.00556	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
32	17.80	17.70	13.22225	0.0	0.00559	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
33	17.70	17.60	13.28501	0.0	0.00561	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
34	17.60	17.50	13.34778	0.0	0.00564	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
35	17.50	17.40	13.41055	0.0	0.00567	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
36	17.40	17.30	13.47332	0.0	0.00569	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
37	17.30	17.20	13.53609	0.0	0.00572	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
38	17.20	17.10	13.59886	0.0	0.00575	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
39	17.10	17.00	13.66163	0.0	0.00577	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
40	17.00	16.90	13.72440	0.0	0.00580	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006

41	16.90	16.80	13.78717	0.0	0.00583	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
42	16.80	16.70	13.84993	0.0	0.00585	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
43	16.70	16.60	13.91270	0.0	0.00588	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
44	16.60	16.50	13.97547	0.0	0.00590	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
45	16.50	16.40	14.03824	0.0	0.00593	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
46	16.40	16.30	14.10101	0.0	0.00596	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
TOT					9.97			10887509.00	7024200.00						
AVG					0.0053		1.55	1527.00			2366.85				
CUM					9.97										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.20			0.00	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	20.800	31.10	0.00	0.00	0.00	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.00	0.00	0.	0.00
2	20.700	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.00	0.00	0.	0.00
3	20.600	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00
4	20.500	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00
5	20.400	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
6	20.300	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
7	20.200	31.10	0.00	0.00	0.00	6.49	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.92	0.00	20.00	0.00	0.	0.00
8	20.100	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
9	20.000	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
10	19.900	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
11	19.800	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00
12	19.700	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00
13	19.600	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.00	0.00	0.	0.00
14	19.500	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.89	0.07	0.00	0.95	0.00	20.00	0.00	0.	0.00
15	19.400	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.00	0.00	0.	0.00
16	19.300	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00
17	19.200	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00
18	19.100	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00
19	19.000	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00
20	18.900	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
21	18.800	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
22	18.700	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
23	18.600	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
24	18.500	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
25	18.400	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
26	18.300	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
27	18.200	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
28	18.100	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
29	18.000	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.96	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
30	17.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
31	17.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
32	17.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
33	17.600	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
34	17.500	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
35	17.400	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00

36	17.300	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
37	17.200	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
38	17.100	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
39	17.000	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
40	16.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
41	16.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
42	16.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
43	16.600	31.10	0.00	0.00	0.00	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
44	16.500	31.10	0.00	0.00	0.00	6.54	2.78	0.00	2.78	0.00	1.02	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
45	16.400	31.10	0.00	0.00	0.00	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00
46	16.300	31.10	0.00	0.00	0.00	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 2 Lake Hache incl 120406-B Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
47	UPR RCH	14.10101	31.10	0.00	0.00	0.00	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.09637	31.13	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00		
EACH	INCR	-0.42903																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF m/s	ADVCTV VELO	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
47	16.30	16.20	13.76835	0.0	0.00863	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009
48	16.20	16.10	13.43568	0.0	0.00842	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
49	16.10	16.00	13.10302	0.0	0.00822	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
50	16.00	15.90	12.77035	0.0	0.00801	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
51	15.90	15.80	12.43769	0.0	0.00780	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
52	15.80	15.70	12.10502	0.0	0.00759	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
53	15.70	15.60	11.77236	0.0	0.00738	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
54	15.60	15.50	11.43969	0.0	0.00717	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
55	15.50	15.40	11.10703	0.0	0.00696	0.17	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
56	15.40	15.30	10.77437	0.0	0.00676	0.17	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
57	15.30	15.20	10.44170	0.0	0.00655	0.18	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
58	15.20	15.10	10.10904	0.0	0.00634	0.18	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
59	15.10	15.00	9.77637	0.0	0.00613	0.19	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
60	15.00	14.90	9.44371	0.0	0.00592	0.20	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
61	14.90	14.80	9.11104	0.0	0.00571	0.20	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
62	14.80	14.70	8.77838	0.0	0.00550	0.21	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
63	14.70	14.60	8.44571	0.0	0.00530	0.22	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
64	14.60	14.50	8.11305	0.0	0.00509	0.23	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
65	14.50	14.40	7.78039	0.0	0.00488	0.24	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
66	14.40	14.30	7.44772	0.0	0.00467	0.25	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
67	14.30	14.20	7.11506	0.0	0.00446	0.26	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
68	14.20	14.10	6.78239	0.0	0.00425	0.27	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
69	14.10	14.00	6.44973	0.0	0.00404	0.29	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
70	14.00	13.90	6.11706	0.0	0.00384	0.30	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
71	13.90	13.80	5.78440	0.0	0.00363	0.32	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
72	13.80	13.70	5.45173	0.0	0.00342	0.34	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
73	13.70	13.60	5.11907	0.0	0.00321	0.36	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003

74	13.60	13.50	4.78640	0.0	0.00300	0.39	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
75	13.50	13.40	4.45374	0.0	0.00279	0.41	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
76	13.40	13.30	4.12108	0.0	0.00258	0.45	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
77	13.30	13.20	3.78841	0.0	0.00238	0.49	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.002
TOT					7.47			4944345.00	3189900.00						
AVG				0.0048			1.55	1029.00		1594.95					
CUM					17.45										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	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	
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.40			0.00	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 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	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
47	16.200	31.10	0.00	0.00	0.00	6.47	3.06	0.00	3.06	0.00	1.03	0.06	0.00	1.09	0.00	20.00	0.00	0.	0.00	
48	16.100	31.10	0.00	0.00	0.00	6.43	3.26	0.00	3.26	0.00	1.04	0.06	0.00	1.10	0.00	20.00	0.00	0.	0.00	
49	16.000	31.10	0.00	0.00	0.00	6.38	3.45	0.00	3.45	0.00	1.04	0.07	0.00	1.11	0.00	20.00	0.00	0.	0.00	

50	15.900	31.10	0.00	0.00	0.00	6.33	3.64	0.00	3.64	0.00	1.05	0.07	0.00	1.12	0.00	20.00	0.00	0.	0.00
51	15.800	31.10	0.00	0.00	0.00	6.28	3.83	0.00	3.83	0.00	1.06	0.07	0.00	1.13	0.00	20.00	0.00	0.	0.00
52	15.700	31.10	0.00	0.00	0.00	6.22	4.02	0.00	4.02	0.00	1.06	0.07	0.00	1.14	0.00	20.00	0.00	0.	0.00
53	15.600	31.10	0.00	0.00	0.00	6.17	4.20	0.00	4.20	0.00	1.07	0.08	0.00	1.15	0.00	20.00	0.00	0.	0.00
54	15.500	31.10	0.00	0.00	0.00	6.11	4.39	0.00	4.39	0.00	1.08	0.08	0.00	1.16	0.00	20.00	0.00	0.	0.00
55	15.400	31.10	0.00	0.00	0.00	6.05	4.57	0.00	4.57	0.00	1.09	0.08	0.00	1.17	0.00	20.00	0.00	0.	0.00
56	15.300	31.10	0.00	0.00	0.00	5.99	4.74	0.00	4.74	0.00	1.09	0.08	0.00	1.18	0.00	20.00	0.00	0.	0.00
57	15.200	31.10	0.00	0.00	0.00	5.93	4.92	0.00	4.92	0.00	1.10	0.09	0.00	1.19	0.00	20.00	0.00	0.	0.00
58	15.100	31.10	0.00	0.00	0.00	5.87	5.09	0.00	5.09	0.00	1.11	0.09	0.00	1.20	0.00	20.00	0.00	0.	0.00
59	15.000	31.10	0.00	0.00	0.00	5.81	5.26	0.00	5.26	0.00	1.12	0.09	0.00	1.21	0.00	20.00	0.00	0.	0.00
60	14.900	31.10	0.00	0.00	0.00	5.75	5.42	0.00	5.42	0.00	1.12	0.09	0.00	1.22	0.00	20.00	0.00	0.	0.00
61	14.800	31.10	0.00	0.00	0.00	5.69	5.59	0.00	5.59	0.00	1.13	0.09	0.00	1.23	0.00	20.00	0.00	0.	0.00
62	14.700	31.10	0.00	0.00	0.00	5.63	5.75	0.00	5.75	0.00	1.14	0.10	0.00	1.24	0.00	20.00	0.00	0.	0.00
63	14.600	31.10	0.00	0.00	0.00	5.57	5.90	0.00	5.90	0.00	1.15	0.10	0.00	1.25	0.00	20.00	0.00	0.	0.00
64	14.500	31.10	0.00	0.00	0.00	5.51	6.06	0.00	6.06	0.00	1.16	0.10	0.00	1.26	0.00	20.00	0.00	0.	0.00
65	14.400	31.10	0.00	0.00	0.00	5.45	6.21	0.00	6.21	0.00	1.17	0.10	0.00	1.27	0.00	20.00	0.00	0.	0.00
66	14.300	31.10	0.00	0.00	0.00	5.39	6.36	0.00	6.36	0.00	1.18	0.10	0.00	1.28	0.00	20.00	0.00	0.	0.00
67	14.200	31.10	0.00	0.00	0.00	5.33	6.51	0.00	6.51	0.00	1.19	0.10	0.00	1.29	0.00	20.00	0.00	0.	0.00
68	14.100	31.10	0.00	0.00	0.00	5.27	6.65	0.00	6.65	0.00	1.20	0.10	0.00	1.30	0.00	20.00	0.00	0.	0.00
69	14.000	31.10	0.00	0.00	0.00	5.22	6.79	0.00	6.79	0.00	1.21	0.10	0.00	1.31	0.00	20.00	0.00	0.	0.00
70	13.900	31.10	0.00	0.00	0.00	5.16	6.92	0.00	6.92	0.00	1.22	0.11	0.00	1.32	0.00	20.00	0.00	0.	0.00
71	13.800	31.10	0.00	0.00	0.00	5.10	7.05	0.00	7.05	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
72	13.700	31.10	0.00	0.00	0.00	5.05	7.18	0.00	7.18	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
73	13.600	31.10	0.00	0.00	0.00	5.00	7.29	0.00	7.29	0.00	1.25	0.11	0.00	1.36	0.00	20.00	0.00	0.	0.00
74	13.500	31.10	0.00	0.00	0.00	4.95	7.40	0.00	7.40	0.00	1.26	0.11	0.00	1.37	0.00	20.00	0.00	0.	0.00
75	13.400	31.10	0.00	0.00	0.00	4.91	7.50	0.00	7.50	0.00	1.27	0.11	0.00	1.38	0.00	20.00	0.00	0.	0.00
76	13.300	31.10	0.00	0.00	0.00	4.88	7.57	0.00	7.57	0.00	1.28	0.11	0.00	1.39	0.00	20.00	0.00	0.	0.00
77	13.200	31.10	0.00	0.00	0.00	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	1.40	0.00	20.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 3 L. Hache-405/406 boundary Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
78	UPR RCH	3.78841	31.10	0.00	0.00	0.00	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00218	31.13	0.00	0.00	0.00	5.00	60.00	0.00		6.00	1.00	0.04	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
78	13.20	13.10	3.79059	0.0	0.09782	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
79	13.10	13.00	3.79277	0.0	0.09788	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
80	13.00	12.90	3.79495	0.0	0.09793	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
81	12.90	12.80	3.79713	0.0	0.09799	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
82	12.80	12.70	3.79931	0.0	0.09805	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
83	12.70	12.60	3.80149	0.0	0.09810	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
84	12.60	12.50	3.80367	0.0	0.09816	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
85	12.50	12.40	3.80585	0.0	0.09822	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
86	12.40	12.30	3.80803	0.0	0.09827	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
87	12.30	12.20	3.81020	0.0	0.09833	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
88	12.20	12.10	3.81238	0.0	0.09838	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098

89	12.10	12.00	3.81456	0.0	0.09844	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
90	12.00	11.90	3.81674	0.0	0.09850	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098
91	11.90	11.80	3.81892	0.0	0.09855	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
92	11.80	11.70	3.82110	0.0	0.09861	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
93	11.70	11.60	3.82328	0.0	0.09867	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
94	11.60	11.50	3.82546	0.0	0.09872	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
95	11.50	11.40	3.82764	0.0	0.09878	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
96	11.40	11.30	3.82982	0.0	0.09883	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
97	11.30	11.20	3.83200	0.0	0.09889	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
98	11.20	11.10	3.83418	0.0	0.09895	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
99	11.10	11.00	3.83636	0.0	0.09900	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
100	11.00	10.90	3.83854	0.0	0.09906	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
101	10.90	10.80	3.84072	0.0	0.09912	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
102	10.80	10.70	3.84290	0.0	0.09917	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
103	10.70	10.60	3.84508	0.0	0.09923	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
104	10.60	10.50	3.84725	0.0	0.09928	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
105	10.50	10.40	3.84943	0.0	0.09934	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
106	10.40	10.30	3.85161	0.0	0.09940	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
107	10.30	10.20	3.85379	0.0	0.09945	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099
108	10.20	10.10	3.85597	0.0	0.09951	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
109	10.10	10.00	3.85815	0.0	0.09957	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
110	10.00	9.90	3.86033	0.0	0.09962	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
111	9.90	9.80	3.86251	0.0	0.09968	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
112	9.80	9.70	3.86469	0.0	0.09973	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
113	9.70	9.60	3.86687	0.0	0.09979	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
114	9.60	9.50	3.86905	0.0	0.09985	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
115	9.50	9.40	3.87123	0.0	0.09990	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
116	9.40	9.30	3.87341	0.0	0.09996	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100
TOT					0.46			151125.00	97500.00						
AVG				0.0989			1.55	25.00			38.75				
CUM					17.91										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	ABOD#1 SETT	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		
78	13.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	
79	13.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00	
80	12.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	
81	12.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	
82	12.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00	
83	12.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	
84	12.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00	
85	12.400	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00	
86	12.300	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	
87	12.200	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00	
88	12.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00	
89	12.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00	
90	11.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	
91	11.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00	
92	11.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	

93	11.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
94	11.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
95	11.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
96	11.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
97	11.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
98	11.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
99	11.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
100	10.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
101	10.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
102	10.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
103	10.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
104	10.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
105	10.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
106	10.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
107	10.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
108	10.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
109	10.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
110	9.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00
111	9.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
112	9.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
113	9.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
114	9.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00
115	9.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
116	9.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.64	0.31	0.00	0.00	0.00	0.00	0.00	2.50			0.01	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
78	13.100	31.10	0.00	0.00	0.00	4.83	7.61	0.00	7.61	0.00	1.29	0.11	0.00	1.40	0.00	20.85	0.00	0.	0.00
79	13.000	31.10	0.00	0.00	0.00	4.79	7.59	0.00	7.59	0.00	1.29	0.11	0.00	1.40	0.00	21.69	0.00	0.	0.00
80	12.900	31.10	0.00	0.00	0.00	4.75	7.58	0.00	7.58	0.00	1.29	0.11	0.00	1.40	0.00	22.54	0.00	0.	0.00
81	12.800	31.10	0.00	0.00	0.00	4.71	7.56	0.00	7.56	0.00	1.29	0.11	0.00	1.41	0.00	23.38	0.00	0.	0.00
82	12.700	31.10	0.00	0.00	0.00	4.67	7.54	0.00	7.54	0.00	1.30	0.11	0.00	1.41	0.00	24.23	0.00	0.	0.00
83	12.600	31.10	0.00	0.00	0.00	4.64	7.53	0.00	7.53	0.00	1.30	0.11	0.00	1.41	0.00	25.08	0.00	0.	0.00
84	12.500	31.10	0.00	0.00	0.00	4.60	7.51	0.00	7.51	0.00	1.30	0.11	0.00	1.41	0.00	25.92	0.00	0.	0.00
85	12.400	31.10	0.00	0.00	0.00	4.57	7.50	0.00	7.50	0.00	1.30	0.11	0.00	1.42	0.00	26.77	0.00	0.	0.00
86	12.300	31.10	0.00	0.00	0.00	4.54	7.48	0.00	7.48	0.00	1.31	0.11	0.00	1.42	0.00	27.62	0.00	0.	0.00
87	12.200	31.10	0.00	0.00	0.00	4.51	7.47	0.00	7.47	0.00	1.31	0.11	0.00	1.42	0.00	28.46	0.00	0.	0.00
88	12.100	31.10	0.00	0.00	0.00	4.48	7.45	0.00	7.45	0.00	1.31	0.11	0.00	1.42	0.00	29.31	0.00	0.	0.00
89	12.000	31.10	0.00	0.00	0.00	4.45	7.44	0.00	7.44	0.00	1.31	0.11	0.00	1.43	0.00	30.15	0.00	0.	0.00
90	11.900	31.10	0.00	0.00	0.00	4.42	7.42	0.00	7.42	0.00	1.32	0.11	0.00	1.43	0.00	31.00	0.00	0.	0.00
91	11.800	31.10	0.00	0.00	0.00	4.39	7.41	0.00	7.41	0.00	1.32	0.11	0.00	1.43	0.00	31.85	0.00	0.	0.00
92	11.700	31.10	0.00	0.00	0.00	4.37	7.39	0.00	7.39	0.00	1.32	0.11	0.00	1.43	0.00	32.69	0.00	0.	0.00
93	11.600	31.10	0.00	0.00	0.00	4.34	7.38	0.00	7.38	0.00	1.32	0.11	0.00	1.44	0.00	33.54	0.00	0.	0.00
94	11.500	31.10	0.00	0.00	0.00	4.32	7.36	0.00	7.36	0.00	1.33	0.11	0.00	1.44	0.00	34.38	0.00	0.	0.00
95	11.400	31.10	0.00	0.00	0.00	4.30	7.35	0.00	7.35	0.00	1.33	0.11	0.00	1.44	0.00	35.23	0.00	0.	0.00
96	11.300	31.10	0.00	0.00	0.00	4.28	7.33	0.00	7.33	0.00	1.33	0.11	0.00	1.45	0.00	36.08	0.00	0.	0.00
97	11.200	31.10	0.00	0.00	0.00	4.26	7.32	0.00	7.32	0.00	1.33	0.11	0.00	1.45	0.00	36.92	0.00	0.	0.00
98	11.100	31.10	0.00	0.00	0.00	4.24	7.30	0.00	7.30	0.00	1.34	0.11	0.00	1.45	0.00	37.77	0.00	0.	0.00

99	11.000	31.10	0.00	0.00	0.00	4.23	7.29	0.00	7.29	0.00	1.34	0.11	0.00	1.45	0.00	38.62	0.00	0.	0.00
100	10.900	31.10	0.00	0.00	0.00	4.21	7.28	0.00	7.28	0.00	1.34	0.11	0.00	1.46	0.00	39.46	0.00	0.	0.00
101	10.800	31.10	0.00	0.00	0.00	4.20	7.26	0.00	7.26	0.00	1.34	0.11	0.00	1.46	0.00	40.31	0.00	0.	0.00
102	10.700	31.10	0.00	0.00	0.00	4.18	7.25	0.00	7.25	0.00	1.35	0.11	0.00	1.46	0.00	41.15	0.00	0.	0.00
103	10.600	31.10	0.00	0.00	0.00	4.17	7.24	0.00	7.24	0.00	1.35	0.11	0.00	1.46	0.00	42.00	0.00	0.	0.00
104	10.500	31.10	0.00	0.00	0.00	4.16	7.22	0.00	7.22	0.00	1.35	0.11	0.00	1.47	0.00	42.85	0.00	0.	0.00
105	10.400	31.10	0.00	0.00	0.00	4.15	7.21	0.00	7.21	0.00	1.35	0.11	0.00	1.47	0.00	43.69	0.00	0.	0.00
106	10.300	31.10	0.00	0.00	0.00	4.14	7.20	0.00	7.20	0.00	1.36	0.11	0.00	1.47	0.00	44.54	0.00	0.	0.00
107	10.200	31.10	0.00	0.00	0.00	4.13	7.18	0.00	7.18	0.00	1.36	0.11	0.00	1.47	0.00	45.38	0.00	0.	0.00
108	10.100	31.10	0.00	0.00	0.00	4.12	7.17	0.00	7.17	0.00	1.36	0.12	0.00	1.48	0.00	46.23	0.00	0.	0.00
109	10.000	31.10	0.00	0.00	0.00	4.11	7.16	0.00	7.16	0.00	1.36	0.12	0.00	1.48	0.00	47.08	0.00	0.	0.00
110	9.900	31.10	0.00	0.00	0.00	4.11	7.14	0.00	7.14	0.00	1.37	0.12	0.00	1.48	0.00	47.92	0.00	0.	0.00
111	9.800	31.10	0.00	0.00	0.00	4.10	7.13	0.00	7.13	0.00	1.37	0.12	0.00	1.48	0.00	48.77	0.00	0.	0.00
112	9.700	31.10	0.00	0.00	0.00	4.10	7.12	0.00	7.12	0.00	1.37	0.12	0.00	1.49	0.00	49.62	0.00	0.	0.00
113	9.600	31.10	0.00	0.00	0.00	4.10	7.10	0.00	7.10	0.00	1.37	0.12	0.00	1.49	0.00	50.46	0.00	0.	0.00
114	9.500	31.10	0.00	0.00	0.00	4.09	7.09	0.00	7.09	0.00	1.38	0.12	0.00	1.49	0.00	51.31	0.00	0.	0.00
115	9.400	31.10	0.00	0.00	0.00	4.09	7.08	0.00	7.08	0.00	1.38	0.12	0.00	1.49	0.00	52.15	0.00	0.	0.00
116	9.300	31.10	0.00	0.00	0.00	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 4 405/406 boundary to L. Theriot Calibration Simulation for Lake de Cade Theriot and Hache 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	PHOS	CHL A	COLI #/100mL	NCM
117	UPR RCH	3.87341	31.10	0.00	0.00	0.00	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV m/s	TRAVEL 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
117	9.30	9.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
118	9.20	9.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
119	9.10	9.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
120	9.00	8.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
121	8.90	8.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
122	8.80	8.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
123	8.70	8.60	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
124	8.60	8.50	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
125	8.50	8.40	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
126	8.40	8.30	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
127	8.30	8.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
128	8.20	8.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
129	8.10	8.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
130	8.00	7.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
131	7.90	7.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
132	7.80	7.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
133	7.70	7.60	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
134	7.60	7.50	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
135	7.50	7.40	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
136	7.40	7.30	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
137	7.30	7.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
138	7.20	7.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250

139	7.10	7.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
140	7.00	6.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
141	6.90	6.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
142	6.80	6.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
TOT					0.12			40300.00	26000.00						
AVG				0.2499			1.55	10.00			15.50				
CUM					18.03										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	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	
117	9.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
118	9.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
119	9.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
120	8.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
121	8.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
122	8.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
123	8.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
124	8.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
125	8.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
126	8.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
127	8.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
128	8.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
129	8.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
130	7.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
131	7.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
132	7.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
133	7.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
134	7.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
135	7.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
136	7.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
137	7.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
138	7.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
139	7.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
140	6.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.02	0.31	0.00	0.00	0.00	0.00	0.00	2.00		0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00	

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

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

ELEM NO.	ENDING DIST	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 µg/L	TOTN g/m^3	PHOS #/100mL	CHL A	MACRO	COLI	NCM
117	9.200	31.10	0.00	0.00	0.00	4.10	7.05	0.00	7.05	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00	
118	9.100	31.10	0.00	0.00	0.00	4.11	7.03	0.00	7.03	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00	
119	9.000	31.10	0.00	0.00	0.00	4.12	7.02	0.00	7.02	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00	
120	8.900	31.10	0.00	0.00	0.00	4.13	7.00	0.00	7.00	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00	
121	8.800	31.10	0.00	0.00	0.00	4.14	6.98	0.00	6.98	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00	
122	8.700	31.10	0.00	0.00	0.00	4.15	6.97	0.00	6.97	0.00	1.38	0.12	0.00	1.49	0.00	53.00	0.00	0.	0.00	
123	8.600	31.10	0.00	0.00	0.00	4.16	6.95	0.00	6.95	0.00	1.38	0.12	0.00	1.49	0.00	53.00	0.00	0.	0.00	
124	8.500	31.10	0.00	0.00	0.00	4.17	6.93	0.00	6.93	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00	

125	8.400	31.10	0.00	0.00	0.00	4.18	6.92	0.00	6.92	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
126	8.300	31.10	0.00	0.00	0.00	4.19	6.90	0.00	6.90	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
127	8.200	31.10	0.00	0.00	0.00	4.20	6.88	0.00	6.88	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
128	8.100	31.10	0.00	0.00	0.00	4.21	6.87	0.00	6.87	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
129	8.000	31.10	0.00	0.00	0.00	4.22	6.85	0.00	6.85	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
130	7.900	31.10	0.00	0.00	0.00	4.23	6.83	0.00	6.83	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
131	7.800	31.10	0.00	0.00	0.00	4.24	6.82	0.00	6.82	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
132	7.700	31.10	0.00	0.00	0.00	4.25	6.80	0.00	6.80	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
133	7.600	31.10	0.00	0.00	0.00	4.26	6.79	0.00	6.79	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
134	7.500	31.10	0.00	0.00	0.00	4.27	6.77	0.00	6.77	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
135	7.400	31.10	0.00	0.00	0.00	4.28	6.75	0.00	6.75	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
136	7.300	31.10	0.00	0.00	0.00	4.28	6.74	0.00	6.74	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
137	7.200	31.10	0.00	0.00	0.00	4.29	6.72	0.00	6.72	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
138	7.100	31.10	0.00	0.00	0.00	4.30	6.71	0.00	6.71	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
139	7.000	31.10	0.00	0.00	0.00	4.31	6.69	0.00	6.69	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
140	6.900	31.10	0.00	0.00	0.00	4.32	6.67	0.00	6.67	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
141	6.800	31.10	0.00	0.00	0.00	4.33	6.66	0.00	6.66	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
142	6.700	31.10	0.00	0.00	0.00	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 7 L. Theriot to Mandalay WR Bndy Calibration Simulation for Lake de Cade Theriot and Hache 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	PHOS	CHL A	COLI #/100mL	NCM
172	UPR RCH	3.87341	31.10	0.00	0.00	0.00	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	0.00	53.00	0.00	0.00
172	TRIB	0.50971	31.10	0.00	0.00	0.00	6.48	5.30	0.00	5.30	0.00	1.00	0.08	0.00	0.00	53.00	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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
172	6.70	6.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
173	6.60	6.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
174	6.50	6.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
175	6.40	6.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
176	6.30	6.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
177	6.20	6.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
178	6.10	6.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
179	6.00	5.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
180	5.90	5.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
181	5.80	5.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
182	5.70	5.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
183	5.60	5.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
184	5.50	5.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
185	5.40	5.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
186	5.30	5.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
187	5.20	5.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
188	5.10	5.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
189	5.00	4.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
190	4.90	4.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
191	4.80	4.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
192	4.70	4.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061

193	4.60	4.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
194	4.50	4.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
195	4.40	4.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
196	4.30	4.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
197	4.20	4.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
198	4.10	4.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
199	4.00	3.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
200	3.90	3.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
201	3.80	3.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
202	3.70	3.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
203	3.60	3.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
204	3.50	3.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
205	3.40	3.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
206	3.30	3.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
207	3.20	3.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
208	3.10	3.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
209	3.00	2.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
210	2.90	2.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
211	2.80	2.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
212	2.70	2.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
213	2.60	2.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
214	2.50	2.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
215	2.40	2.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
TOT					0.83			313719.97	202400.00						
AVG				0.0615			1.55	46.00			71.30				
CUM					18.85										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL DECAY 1/da	CORR SETT *	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE **	NH3 SRCE **	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da
172	6.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
173	6.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
174	6.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
175	6.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
176	6.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
177	6.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
178	6.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
179	5.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
180	5.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
181	5.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
182	5.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
183	5.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
184	5.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
185	5.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
186	5.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
187	5.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
188	5.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
189	4.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
190	4.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00
191	4.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00

192	4.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
193	4.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.51	0.31	0.00	0.00	0.00	0.00	0.00	2.00		0.01	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
172	6.600	31.10	0.00	0.00	0.00	4.67	6.37	0.00	6.37	0.00	1.32	0.11	0.00	1.43	0.00	53.00	0.00	0.	0.00
173	6.500	31.10	0.00	0.00	0.00	4.68	6.31	0.00	6.31	0.00	1.32	0.11	0.00	1.43	0.00	53.00	0.00	0.	0.00
174	6.400	31.10	0.00	0.00	0.00	4.68	6.25	0.00	6.25	0.00	1.32	0.11	0.00	1.42	0.00	53.00	0.00	0.	0.00
175	6.300	31.10	0.00	0.00	0.00	4.68	6.19	0.00	6.19	0.00	1.32	0.11	0.00	1.42	0.00	53.00	0.00	0.	0.00
176	6.200	31.10	0.00	0.00	0.00	4.68	6.13	0.00	6.13	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
177	6.100	31.10	0.00	0.00	0.00	4.69	6.07	0.00	6.07	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
178	6.000	31.10	0.00	0.00	0.00	4.69	6.01	0.00	6.01	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
179	5.900	31.10	0.00	0.00	0.00	4.69	5.96	0.00	5.96	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
180	5.800	31.10	0.00	0.00	0.00	4.70	5.90	0.00	5.90	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
181	5.700	31.10	0.00	0.00	0.00	4.70	5.84	0.00	5.84	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
182	5.600	31.10	0.00	0.00	0.00	4.71	5.79	0.00	5.79	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
183	5.500	31.10	0.00	0.00	0.00	4.72	5.73	0.00	5.73	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
184	5.400	31.10	0.00	0.00	0.00	4.72	5.67	0.00	5.67	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
185	5.300	31.10	0.00	0.00	0.00	4.73	5.62	0.00	5.62	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
186	5.200	31.10	0.00	0.00	0.00	4.74	5.57	0.00	5.57	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
187	5.100	31.10	0.00	0.00	0.00	4.75	5.51	0.00	5.51	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
188	5.000	31.10	0.00	0.00	0.00	4.76	5.46	0.00	5.46	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
189	4.900	31.10	0.00	0.00	0.00	4.76	5.41	0.00	5.41	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
190	4.800	31.10	0.00	0.00	0.00	4.77	5.35	0.00	5.35	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
191	4.700	31.10	0.00	0.00	0.00	4.78	5.30	0.00	5.30	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
192	4.600	31.10	0.00	0.00	0.00	4.79	5.25	0.00	5.25	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00

193	4.500	31.10	0.00	0.00	0.00	4.81	5.20	0.00	5.20	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
194	4.400	31.10	0.00	0.00	0.00	4.82	5.15	0.00	5.15	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
195	4.300	31.10	0.00	0.00	0.00	4.83	5.10	0.00	5.10	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
196	4.200	31.10	0.00	0.00	0.00	4.84	5.05	0.00	5.05	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
197	4.100	31.10	0.00	0.00	0.00	4.85	5.00	0.00	5.00	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
198	4.000	31.10	0.00	0.00	0.00	4.86	4.96	0.00	4.96	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
199	3.900	31.10	0.00	0.00	0.00	4.88	4.91	0.00	4.91	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
200	3.800	31.10	0.00	0.00	0.00	4.89	4.86	0.00	4.86	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
201	3.700	31.10	0.00	0.00	0.00	4.90	4.81	0.00	4.81	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
202	3.600	31.10	0.00	0.00	0.00	4.92	4.77	0.00	4.77	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
203	3.500	31.10	0.00	0.00	0.00	4.93	4.72	0.00	4.72	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
204	3.400	31.10	0.00	0.00	0.00	4.95	4.68	0.00	4.68	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
205	3.300	31.10	0.00	0.00	0.00	4.96	4.63	0.00	4.63	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
206	3.200	31.10	0.00	0.00	0.00	4.97	4.59	0.00	4.59	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
207	3.100	31.10	0.00	0.00	0.00	4.99	4.54	0.00	4.54	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
208	3.000	31.10	0.00	0.00	0.00	5.01	4.50	0.00	4.50	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
209	2.900	31.10	0.00	0.00	0.00	5.02	4.46	0.00	4.46	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
210	2.800	31.10	0.00	0.00	0.00	5.04	4.41	0.00	4.41	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
211	2.700	31.10	0.00	0.00	0.00	5.05	4.37	0.00	4.37	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
212	2.600	31.10	0.00	0.00	0.00	5.07	4.33	0.00	4.33	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
213	2.500	31.10	0.00	0.00	0.00	5.09	4.29	0.00	4.29	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
214	2.400	31.10	0.00	0.00	0.00	5.10	4.25	0.00	4.25	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
215	2.300	31.10	0.00	0.00	0.00	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 8 Mandalay WR Bndy to constriction Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
216	UPR RCH	4.38312	31.10	0.00	0.00	0.00	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV 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 VELO m/s
216	2.30	2.20	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
217	2.20	2.10	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
218	2.10	2.00	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
219	2.00	1.90	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
220	1.90	1.80	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
221	1.80	1.70	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
222	1.70	1.60	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
223	1.60	1.50	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026	
TOT					0.36			136400.00	88000.00							
AVG				0.0257			1.55	110.00			170.50					
CUM					19.21											

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
216	2.200	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
217	2.100	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

218	2.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.45 0.31 0.00 0.00 0.00 0.00 0.00 2.00 0.01 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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
216	2.200	31.10	0.00	0.00	0.00	5.16	4.11	0.00	4.11	0.00	1.31	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
217	2.100	31.10	0.00	0.00	0.00	5.19	4.01	0.00	4.01	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
218	2.000	31.10	0.00	0.00	0.00	5.23	3.92	0.00	3.92	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
219	1.900	31.10	0.00	0.00	0.00	5.27	3.83	0.00	3.83	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
220	1.800	31.10	0.00	0.00	0.00	5.31	3.75	0.00	3.75	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
221	1.700	31.10	0.00	0.00	0.00	5.35	3.66	0.00	3.66	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
222	1.600	31.10	0.00	0.00	0.00	5.39	3.58	0.00	3.58	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
223	1.500	31.10	0.00	0.00	0.00	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 9 constriction to Lake Hache inflo Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
224	UPR RCH	4.38312	31.10	0.00	0.00	0.00	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	0.00	53.00	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
224	1.50	1.40	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
225	1.40	1.30	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
226	1.30	1.20	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
227	1.20	1.10	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
228	1.10	1.00	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
229	1.00	0.90	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
230	0.90	0.80	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
231	0.80	0.70	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
232	0.70	0.60	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
TOT					0.11				41850.00	27000.00					
AVG				0.0943		1.55		30.00			46.50				
CUM					19.33										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE **	NH3 SRCE **	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
224	1.400	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00			
225	1.300	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.17	0.00	0.00	0.00	0.00			
226	1.200	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00			
227	1.100	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00			
228	1.000	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00			

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229   0.900 7.42   0.77  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.45 0.00  0.00 0.00 6.69 0.00  0.00  0.00  0.00
230   0.800 7.42   0.77  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.46 0.00  0.00 0.00 7.07 0.00  0.00  0.00  0.00
231   0.700 7.42   0.77  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.46 0.00  0.00 0.00 7.45 0.00  0.00  0.00  0.00
232   0.600 7.42   0.77  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.46 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.63  0.31 0.00  0.00  0.00 0.00  0.00 2.00          0.01 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
224   1.400 31.10 0.00    0.00    0.00  5.46  3.48  0.00  3.48  0.00  1.30  0.08  0.00  1.38  0.00 57.56  0.00     0.  0.00
225   1.300 31.10 0.00    0.00    0.00  5.48  3.46  0.00  3.46  0.00  1.30  0.08  0.00  1.38  0.00 62.11  0.00     0.  0.00
226   1.200 31.10 0.00    0.00    0.00  5.51  3.43  0.00  3.43  0.00  1.30  0.08  0.00  1.38  0.00 66.67  0.00     0.  0.00
227   1.100 31.10 0.00    0.00    0.00  5.55  3.41  0.00  3.41  0.00  1.30  0.08  0.00  1.38  0.00 71.22  0.00     0.  0.00
228   1.000 31.10 0.00    0.00    0.00  5.59  3.39  0.00  3.39  0.00  1.30  0.08  0.00  1.38  0.00 75.78  0.00     0.  0.00
229   0.900 31.10 0.00    0.00    0.00  5.63  3.37  0.00  3.37  0.00  1.30  0.08  0.00  1.38  0.00 80.33  0.00     0.  0.00
230   0.800 31.10 0.00    0.00    0.00  5.68  3.35  0.00  3.35  0.00  1.30  0.08  0.00  1.38  0.00 84.89  0.00     0.  0.00
231   0.700 31.10 0.00    0.00    0.00  5.73  3.33  0.00  3.33  0.00  1.30  0.08  0.00  1.38  0.00 89.44  0.00     0.  0.00
232   0.600 31.10 0.00    0.00    0.00  5.79  3.31  0.00  3.31  0.00  1.30  0.08  0.00  1.38  0.00 94.00  0.00     0.  0.00
FINAL REPORT    Lake de Cade                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 12    Lake Hache inflow to 406 boundar            Calibration Simulation for Lake de Cade Theriot and Hache model
************************************************************ REACH INPUTS ************************************************************
ELEM  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
NO.             deg C    ppt              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
244  UPR RCH  4.38312  31.10    0.00    0.00    0.00  5.79  3.31  0.00  3.31  0.00  1.30  0.08  0.00  0.00 94.00    0.00    0.00
244  TRIB     0.11330  31.10    0.00    0.00    0.00  6.86 11.94  0.00 11.94  0.00  1.53  0.10  0.00  0.00 94.00    0.00    0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST       EFF   VELO    TIME                         AREA   AREA    PRISM   VELO          VELO
      km     km      m³/s        m/s   days     m      m      m³      m²     m²      m³    m/s    m²/s   m/s
244   0.60   0.50   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
245   0.50   0.40   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
246   0.40   0.30   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
247   0.30   0.20   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
248   0.20   0.10   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
249   0.10   0.00   4.49642  0.0  0.14505   0.01   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.145
TOT                                0.05            18600.00  12000.00
AVG                        0.1450          1.55  20.00                31.00
CUM                                19.37
********************************************** 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  1/da
244   0.500 7.39   0.95  0.52 0.00  0.00  0.00 0.00  0.00 4.08 4.08 4.08  0.01 0.00  0.47 0.00  0.00 0.00 6.59 0.00  0.00  0.00  0.00
245   0.400 7.36   0.96  0.53 0.00  0.00  0.00 0.00  0.00 4.13 4.13 4.13  0.01 0.00  0.48 0.00  0.00 0.00 5.32 0.00  0.00  0.00  0.00
246   0.300 7.34   0.96  0.53 0.00  0.00  0.00 0.00  0.00 4.19 4.19 4.19  0.01 0.00  0.48 0.00  0.00 0.00 4.04 0.00  0.00  0.00  0.00
247   0.200 7.31   0.97  0.54 0.00  0.00  0.00 0.00  0.00 4.25 4.25 4.25  0.01 0.00  0.49 0.00  0.00 0.00 2.72 0.00  0.00  0.00  0.00
248   0.100 7.28   0.97  0.54 0.00  0.00  0.00 0.00  0.00 4.31 4.31 4.31  0.01 0.00  0.50 0.00  0.00 0.00 1.38 0.00  0.00  0.00  0.00
249   0.000 7.26   0.97  0.55 0.00  0.00  0.00 0.00  0.00 4.37 4.37 4.37  0.01 0.00  0.51 0.00  0.00 0.00 0.01 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.78  0.31 0.00  0.00  0.00 0.00  0.00 2.00          0.01 0.00  0.20 0.00  0.00 0.00          0.00  0.00  0.00
*  g/m²/d        **  mg/L/day
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********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
244	0.500	31.32	0.00	0.00	0.00	5.87	3.78	0.00	3.78	0.00	1.31	0.08	0.00	1.39	0.00	78.35	0.00	0.	0.00
245	0.400	31.53	0.00	0.00	0.00	5.89	3.77	0.00	3.77	0.00	1.31	0.08	0.00	1.39	0.00	62.70	0.00	0.	0.00
246	0.300	31.75	0.00	0.00	0.00	5.89	3.75	0.00	3.75	0.00	1.31	0.08	0.00	1.39	0.00	47.05	0.00	0.	0.00
247	0.200	31.97	0.00	0.00	0.00	5.89	3.73	0.00	3.73	0.00	1.31	0.08	0.00	1.39	0.00	31.40	0.00	0.	0.00
248	0.100	32.18	0.00	0.00	0.00	5.87	3.72	0.00	3.72	0.00	1.31	0.08	0.00	1.39	0.00	15.74	0.00	0.	0.00
249	0.000	32.40	0.00	0.00	0.00	5.84	3.72	0.00	3.72	0.00	1.29	0.08	0.00	1.37	0.00	0.09	0.00	0.	0.00

STREAM SUMMARY Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake de Cade Calibration Simulation for Lake de Cade Theriot and Hache model

TRAVEL TIME = 19.37 DAYS
MAXIMUM EFFLUENT = 0.00 PERCENT
FLOW = 3.78841 TO 14.10101 m³/s
DISPERSION = 0.1000 TO 0.5000 m²/s
VELOCITY = 0.00238 TO 0.24990 m/s
DEPTH = 1.55 TO 1.55 m
WIDTH = 10.00 TO ****** m
BOD DECAY = 0.22 TO 0.55 per day
NH3 DECAY = 0.42 TO 0.51 per day
SOD = 2.41 TO 5.03 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.55 TO 1.25 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.00 TO 0.01 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.10 TO 32.40 deg C
DISSOLVED OXYGEN = 4.09 TO 6.54 mg/L

FINAL REPORT Lake Theriot Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 5 Lake Theriot Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
143	HDWTR	0.00971	31.10	0.00	0.00	0.00	6.90	2.72	0.00	2.72	0.00	0.90	0.10	0.04	0.00	53.00	0.00	0.00
EACH	INCR	0.02000	31.13	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00		

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT m/s	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
143	2.90	2.80	0.02971	0.0	0.00002	75.67	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
144	2.80	2.70	0.04971	0.0	0.00003	45.23	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
145	2.70	2.60	0.06971	0.0	0.00004	32.25	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
146	2.60	2.50	0.08971	0.0	0.00005	25.06	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
147	2.50	2.40	0.10971	0.0	0.00006	20.49	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
148	2.40	2.30	0.12971	0.0	0.00007	17.33	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
149	2.30	2.20	0.14971	0.0	0.00008	15.02	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
150	2.20	2.10	0.16971	0.0	0.00009	13.25	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
151	2.10	2.00	0.18971	0.0	0.00010	11.85	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
152	2.00	1.90	0.20971	0.0	0.00011	10.72	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
153	1.90	1.80	0.22971	0.0	0.00012	9.79	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000

154	1.80	1.70	0.24971	0.0	0.00013	9.00	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
155	1.70	1.60	0.26971	0.0	0.00014	8.34	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
156	1.60	1.50	0.28971	0.0	0.00015	7.76	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
157	1.50	1.40	0.30971	0.0	0.00016	7.26	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
158	1.40	1.30	0.32971	0.0	0.00017	6.82	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
159	1.30	1.20	0.34971	0.0	0.00018	6.43	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
160	1.20	1.10	0.36971	0.0	0.00019	6.08	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
161	1.10	1.00	0.38971	0.0	0.00020	5.77	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
162	1.00	0.90	0.40971	0.0	0.00021	5.49	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
163	0.90	0.80	0.42971	0.0	0.00022	5.23	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
164	0.80	0.70	0.44971	0.0	0.00023	5.00	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
165	0.70	0.60	0.46971	0.0	0.00024	4.79	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
166	0.60	0.50	0.48971	0.0	0.00025	4.59	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
TOT						359.20			4661760.00	5827200.00					
AVG					0.0001		0.80	2428.00			1942.40				
CUM						359.20									

********** 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	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		
143	2.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
144	2.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
145	2.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
146	2.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
147	2.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
148	2.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
149	2.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
150	2.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
151	2.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
152	1.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
153	1.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
154	1.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
155	1.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
156	1.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
157	1.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
158	1.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
159	1.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
160	1.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
161	1.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
162	0.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
163	0.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
164	0.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
165	0.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
166	0.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
AVG 20 DEG C RATE			1.16	0.06	0.00	0.00	0.00	0.00	0.00	2.00			0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00	

* $g/m^2/d$ ** 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 #/100mL	MACRO	COLI	NCM
143	2.800	31.10	0.00	0.00	0.00	6.66	3.64	0.00	3.64	0.00	0.84	0.04	0.00	0.89	0.00	53.00	0.00	0.	0.00

144	2.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.00	0.00	0.	0.00
145	2.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.00	0.00	0.	0.00
146	2.500	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
147	2.400	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
148	2.300	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
149	2.200	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
150	2.100	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
151	2.000	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
152	1.900	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
153	1.800	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
154	1.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
155	1.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
156	1.500	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
157	1.400	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
158	1.300	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
159	1.200	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
160	1.100	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
161	1.000	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
162	0.900	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
163	0.800	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
164	0.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
165	0.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
166	0.500	31.10	0.00	0.00	0.00	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake Theriot Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 6 Lake Theriot Discharge Calibration Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
167	UPR RCH	0.48971	31.10	0.00	0.00	0.00	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.00	53.00	0.00	0.00
EACH	INCR	0.00400	31.13	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	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
167	0.50	0.40	0.49371	0.0	0.01297	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
168	0.40	0.30	0.49771	0.0	0.01307	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
169	0.30	0.20	0.50171	0.0	0.01318	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
170	0.20	0.10	0.50571	0.0	0.01328	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
171	0.10	0.00	0.50971	0.0	0.01339	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
TOT					0.44			19040.00	10000.00						
AVG				0.0132		1.90	20.00				38.08				
CUM					359.64										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE **	PO4 SRCE **	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
167	0.400	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
168	0.300	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
169	0.200	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
170	0.100	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

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171   0.000 7.42   0.45   0.22 0.00   0.00   0.00 0.00   0.00 4.02 4.02 4.02   0.01 0.00   0.47 0.00   0.00 0.00 4.41 0.00   0.00   0.00   0.00
AVG 20 DEG C RATE    0.37   0.13 0.00   0.00   0.00 0.00   0.00 2.00            0.01 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
167   0.400  31.10 0.00    0.00    0.00  6.80   3.97   0.00   3.97   0.00   0.84   0.05   0.00   0.89   0.00  53.00    0.00      0.   0.00
168   0.300  31.10 0.00    0.00    0.00  6.91   4.22   0.00   4.22   0.00   0.85   0.05   0.00   0.91   0.00  53.00    0.00      0.   0.00
169   0.200  31.10 0.00    0.00    0.00  7.01   4.46   0.00   4.46   0.00   0.86   0.06   0.00   0.92   0.00  53.00    0.00      0.   0.00
170   0.100  31.10 0.00    0.00    0.00  7.02   4.74   0.00   4.74   0.00   0.88   0.07   0.00   0.95   0.00  53.00    0.00      0.   0.00
171   0.000  31.10 0.00    0.00    0.00  6.48   5.30   0.00   5.30   0.00   1.00   0.08   0.00   1.08   0.00  53.00    0.00      0.   0.00
STREAM SUMMARY                                   Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Theriot                                  Calibration Simulation for Lake de Cade Theriot and Hache model
TRAVEL TIME      =        359.64 DAYS
MAXIMUM EFFLUENT  =          0.00 PERCENT
FLOW            =  0.02971 TO    0.50971   m³/s
DISPERSION       =  0.0000  TO    0.2000    m²/s
VELOCITY         =  0.00002 TO    0.01339   m/s
DEPTH           =  0.80    TO    1.90      m
WIDTH           =  20.00    TO  ******      m
BOD DECAY        =    0.10   TO    0.22      per day
NH3 DECAY        =    0.47   TO    0.47      per day
SOD             =    4.02   TO    4.02      g/m²/d
NH3 SOURCE       =    0.00   TO    0.00      g/m²/d
REAERATION       =    0.45   TO    1.43      per day
BOD SETTLING     =    0.00   TO    0.00      per day
ORG-N DECAY      =    0.01   TO    0.01      per day
ORG-N SETTLING   =    0.00   TO    0.00      per day
TEMPERATURE      =   31.10   TO   31.10      deg C
DISSOLVED OXYGEN =    6.48   TO    7.02      mg/L
FINAL REPORT    Lake Hache                        Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 10    Lake Hache                       Calibration Simulation for Lake de Cade Theriot and Hache model
************************************************************ REACH INPUTS ************************************************************
ELEM  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
NO.                deg C    ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
233  HDWTR    0.00100   31.10    0.00    0.00    0.00  8.70  60.00   0.00  60.00   0.00   2.10   0.10   0.04   0.00  94.00    0.00    0.00
EACH  INCR    0.00981   31.13    0.00    0.00    0.00  5.00  60.00   0.00              2.40   1.00   0.04   0.00    0.00    0.00
************************************************ HYDRAULIC PARAMETER VALUES ************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
NO.   DIST   DIST        EFF   VELO    TIME                     AREA    AREA    PRISM    VELO            VELO
      km     km       m³/s        m/s    days      m      m      m³      m²      m²      m³     m/s     m²/s     m/s
233   1.10   1.00   0.01081   0.0  0.00001   77.89   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
234   1.00   0.90   0.02062   0.0  0.00003   40.83   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
235   0.90   0.80   0.03043   0.0  0.00004   27.67   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
236   0.80   0.70   0.04024   0.0  0.00006   20.92   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
237   0.70   0.60   0.05005   0.0  0.00007   16.82   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
238   0.60   0.50   0.05986   0.0  0.00008   14.07   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
239   0.50   0.40   0.06967   0.0  0.00010   12.09   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
240   0.40   0.30   0.07948   0.0  0.00011   10.59   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
241   0.30   0.20   0.08929   0.0  0.00012    9.43   0.75  970.00  72750.00  97000.00  727.50     0.00   0.000    0.000   0.000
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 242   0.20   0.10   0.09910  0.0  0.00014    8.50   0.75 970.00 72750.00  97000.00 727.50     0.00  0.000    0.000  0.000
 TOT                                238.82            727500.00 970000.00
 AVG                          0.0000          0.75 970.00                 727.50
 CUM                                238.82
************************************************ 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  1/da
233   1.000 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
234   0.900 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
235   0.800 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
236   0.700 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
237   0.600 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
238   0.500 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
239   0.400 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
240   0.300 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
241   0.200 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
242   0.100 7.42   1.52  0.02 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.24  0.01 0.00  0.00  0.00 0.00  0.00 2.00            0.00 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
233   1.000 31.10 0.00    0.00    0.00  8.67 26.12  0.00 26.12  0.00  1.84  0.04  0.00  1.88  0.00 94.00   0.00      0.  0.00
234   0.900 31.10 0.00    0.00    0.00  8.68 25.14  0.00 25.14  0.00  1.83  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
235   0.800 31.10 0.00    0.00    0.00  8.68 24.91  0.00 24.91  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
236   0.700 31.10 0.00    0.00    0.00  8.68 24.82  0.00 24.82  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
237   0.600 31.10 0.00    0.00    0.00  8.68 24.77  0.00 24.77  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
238   0.500 31.10 0.00    0.00    0.00  8.69 24.75  0.00 24.75  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
239   0.400 31.10 0.00    0.00    0.00  8.69 24.74  0.00 24.74  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
240   0.300 31.10 0.00    0.00    0.00  8.69 24.73  0.00 24.73  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
241   0.200 31.10 0.00    0.00    0.00  8.69 24.72  0.00 24.72  0.00  1.82  0.04  0.00  1.86  0.00 94.00   0.00      0.  0.00
242   0.100 31.10 0.00    0.00    0.00  8.66 21.46  0.00 21.46  0.00  1.74  0.04  0.00  1.78  0.00 94.00   0.00      0.  0.00
FINAL REPORT   Lake Hache                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 11   Lake Hache Discharge                     Calibration Simulation for Lake de Cade Theriot and Hache model
************************************************************ REACH INPUTS ************************************************************
ELEM 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
NO.            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
 243 UPR RCH  0.09910  31.10    0.00    0.00    0.00  8.66 21.46  0.00 21.46  0.00  1.74  0.04  0.00  0.00 94.00    0.00   0.00
EACH INCR     0.01420  31.13    0.00    0.00    0.00  5.00 45.00  0.00            2.00  1.00  0.04  0.00    0.00   0.00
************************************************************ HYDRAULIC PARAMETER VALUES ************************************************************
ELEM  BEGIN ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
 NO.   DIST  DIST          EFF    VELO     TIME                          AREA   AREA    PRISM   VELO           VELO
       km     km       m³/s          m/s    days     m      m       m³       m²     m²       m³    m/s    m²/s    m/s
 243   0.10   0.00   0.11330  0.0  0.00146    0.79   1.55  50.00  7750.00   5000.00  77.50     0.00  0.000    0.100  0.001
 TOT                                0.79            7750.00   5000.00
 AVG                          0.0015          1.55  50.00                 77.50
 CUM                                239.61
************************************************ 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
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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  1/da
243   0.000 7.42   0.55  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.45  0.31 0.00  0.00  0.00 0.00  0.00 2.00            0.01 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
243   0.000 31.10 0.00    0.00    0.00  6.86 11.94  0.00 11.94  0.00  1.53  0.10  0.00  1.63  0.00 94.00   0.00      0.   0.00
STREAM SUMMARY                                  Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Hache                                  Calibration Simulation for Lake de Cade Theriot and Hache model
TRAVEL TIME      =        239.61 DAYS
MAXIMUM EFFLUENT  =         0.00 PERCENT
FLOW           =  0.01081 TO   0.11330   m³/s
DISPERSION       =  0.0000  TO   0.1000   m²/s
VELOCITY         =  0.00001 TO   0.00146   m/s
DEPTH          =  0.75   TO   1.55     m
WIDTH          =  50.00   TO  970.00     m
BOD DECAY       =   0.02   TO   0.52     per day
NH3 DECAY       =   0.47   TO   0.48     per day
SOD            =   4.02   TO   4.02     g/m²/d
NH3 SOURCE       =   0.00   TO   0.00     g/m²/d
REAERATION       =   0.55   TO   1.52     per day
BOD SETTLING     =   0.00   TO   0.00     per day
ORG-N DECAY      =   0.00   TO   0.01     per day
ORG-N SETTLING   =   0.00   TO   0.00     per day
TEMPERATURE      =  31.10   TO  31.10     deg C
DISSOLVED OXYGEN =   6.86   TO   8.69     mg/L

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake de Cade
RCH REACH NAME                    BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
NO.                        DIST    DIST  LENGTH    TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                          km      km     km     days    m3/s      m/s     m      m     cfs      fps     ft     ft
  1 Lake Hache incl 937          20.90    16.30   4.60    9.97  14.10101   0.00534  1.550 1527.00  497.907    0.018  5.086 5010.09
  2 Lake Hache incl 120406-B      16.30    13.20   3.10    7.47   3.78841   0.00480  1.550 1029.00  133.769    0.016  5.086 3376.15
  3 L. Hache-405/406 boundary      13.20     9.30   3.90    0.46   3.87341   0.09889  1.550   25.00  136.770    0.324  5.086   82.02
  4 405/406 boundary to L. Theriot    9.30     6.70   2.60    0.12   3.87341   0.24990  1.550   10.00  136.770    0.820  5.086   32.81
  7 L. Theriot to Mandalay WR Bndy     6.70     2.30   4.40    0.83   4.38312   0.06147  1.550   46.00  154.768    0.202  5.086  150.93
  8 Mandalay WR Bndy to constriction    2.30     1.50   0.80    0.36   4.38312   0.02571  1.550  110.00  154.768    0.084  5.086  360.91
  9 constriction to Lake Hache inflo    1.50     0.60   0.90    0.11   4.38312   0.09426  1.550   30.00  154.768    0.309  5.086   98.43
 12 Lake Hache inflow to 406 boundar    0.60     0.00   0.60    0.05   4.49642   0.14505  1.550   20.00  158.768    0.476  5.086   65.62
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake Theriot
RCH REACH NAME                    BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
NO.                        DIST    DIST  LENGTH    TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                          km      km     km     days    m3/s      m/s     m      m     cfs      fps     ft     ft
  5 Lake Theriot                 2.90     0.50   2.40  359.20   0.48971   0.00008  0.800 2428.00   17.292    0.000  2.625 7966.27
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6 Lake Theriot Discharge 0.50 0.00 0.50 0.44 0.50971 0.01317 1.904 20.00 17.998 0.043 6.247 65.62

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

Calibration Simulation for Lake de Cade Theriot and Hache model

REACH SUMMARY REPORT FOR Lake Hache

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
10	Lake Hache	1.10	0.10	1.00	238.82	0.09910	0.00005	0.750	970.00	3.499	0.000	2.461	3182.57
11	Lake Hache Discharge	0.10	0.00	0.10	0.79	0.11330	0.00146	1.550	50.00	4.001	0.005	5.086	164.05

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	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
1	6298.	0.	-6325.	0.	0.	-2.	28.	-1.	0.	0.	0.	161.	-140.	-44.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-6880.7	6880.6	-0.07
2	6325.	0.	-6358.	2.	0.	-1.	28.	-1.	0.	0.	0.	161.	-140.	-42.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-6910.9	6910.8	-0.07
3	6358.	0.	-6393.	1.	0.	0.	28.	-1.	0.	0.	0.	161.	-140.	-41.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-6943.1	6943.1	-0.06
4	6393.	0.	-6428.	0.	0.	1.	28.	-1.	0.	0.	0.	161.	-140.	-39.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-6977.6	6977.5	-0.06
5	6428.	0.	-6465.	-1.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-38.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7013.4	7013.4	-0.06
6	6465.	0.	-6501.	-2.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-37.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7049.8	7049.7	-0.06
7	6501.	0.	-6539.	-2.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-36.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7086.6	7086.5	-0.06
8	6539.	0.	-6576.	-2.	0.	3.	28.	-1.	0.	0.	0.	160.	-140.	-35.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7123.6	7123.6	-0.06
9	6576.	0.	-6614.	-3.	0.	3.	28.	-1.	0.	0.	0.	160.	-140.	-34.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7160.9	7160.8	-0.05
10	6614.	0.	-6652.	-3.	0.	3.	28.	-1.	0.	0.	0.	159.	-140.	-33.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7198.2	7198.2	-0.05
11	6652.	0.	-6690.	-3.	0.	3.	28.	-1.	0.	0.	0.	159.	-140.	-33.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7235.7	7235.7	-0.05
12	6690.	0.	-6728.	-3.	0.	3.	28.	-1.	0.	0.	0.	158.	-140.	-32.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7273.2	7273.2	-0.05
13	6728.	0.	-6766.	-3.	0.	3.	28.	-1.	0.	0.	0.	158.	-141.	-32.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7310.7	7310.7	-0.05
14	6766.	0.	-6804.	-3.	0.	3.	28.	-1.	0.	0.	0.	157.	-141.	-31.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7348.2	7348.2	-0.05
15	6804.	0.	-6842.	-3.	0.	2.	28.	-1.	0.	0.	0.	157.	-141.	-31.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7385.7	7385.6	-0.05
16	6842.	0.	-6880.	-2.	0.	2.	28.	-1.	0.	0.	0.	157.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7423.1	7423.0	-0.05
17	6880.	0.	-6918.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7460.4	7460.3	-0.05
18	6918.	0.	-6955.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7497.6	7497.6	-0.05
19	6955.	0.	-6993.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7534.8	7534.7	-0.05
20	6993.	0.	-7030.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7571.8	7571.8	-0.05
21	7030.	0.	-7067.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7608.8	7608.8	-0.05
22	7067.	0.	-7105.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7645.7	7645.7	-0.05
23	7105.	0.	-7142.	-2.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7682.6	7682.5	-0.04
24	7142.	0.	-7179.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7719.3	7719.2	-0.05
25	7179.	0.	-7216.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7755.9	7755.9	-0.05
26	7216.	0.	-7252.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7792.5	7792.4	-0.05
27	7252.	0.	-7289.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7829.0	7828.9	-0.05
28	7289.	0.	-7326.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7865.4	7865.3	-0.05
29	7326.	0.	-7362.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7901.7	7901.7	-0.04
30	7362.	0.	-7398.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7938.0	7938.0	-0.04
31	7398.	0.	-7435.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7974.2	7974.2	-0.04
32	7435.	0.	-7471.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8010.4	8010.3	-0.05
33	7471.	0.	-7507.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8046.5	8046.4	-0.05
34	7507.	0.	-7543.	-1.	0.	1.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8082.5	8082.5	-0.05
35	7543.	0.	-7580.	-1.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8118.6	8118.5	-0.05
36	7580.	0.	-7616.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8154.5	8154.5	-0.04
37	7616.	0.	-7652.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8190.4	8190.4	-0.05
38	7652.	0.	-7688.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8226.2	8226.2	-0.04

39	7688.	0.	-7723.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8262.0	8261.9	-0.04
40	7723.	0.	-7759.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8297.6	8297.6	-0.04
41	7759.	0.	-7794.	0.	0.	-1.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8333.4	8333.3	-0.04
42	7794.	0.	-7829.	1.	0.	-1.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8369.3	8369.3	-0.04
43	7829.	0.	-7863.	1.	0.	-3.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8405.4	8405.3	-0.04
44	7863.	0.	-7895.	3.	0.	-8.	28.	-1.	0.	0.	0.	153.	-143.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8441.7	8441.7	-0.04
45	7895.	0.	-7921.	8.	0.	-16.	28.	-1.	0.	0.	0.	154.	-144.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8478.6	8478.5	-0.04
46	7921.	0.	-7937.	16.	0.	-34.	28.	-1.	0.	0.	0.	157.	-147.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8516.5	8516.5	-0.04
47	7937.	0.	-7702.	34.	0.	-32.	42.	-240.	0.	0.	0.	111.	-106.	-20.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8389.1	8389.1	-0.03
48	7702.	0.	-7463.	32.	0.	-33.	42.	-238.	0.	0.	0.	116.	-112.	-21.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8157.1	8157.0	-0.03
49	7463.	0.	-7223.	33.	0.	-35.	42.	-237.	0.	0.	0.	122.	-119.	-22.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7924.7	7924.7	-0.03
50	7223.	0.	-6984.	35.	0.	-36.	42.	-235.	0.	0.	0.	128.	-126.	-22.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7692.5	7692.5	-0.03
51	6984.	0.	-6746.	36.	0.	-37.	42.	-233.	0.	0.	0.	134.	-132.	-23.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7460.9	7460.8	-0.03
52	6746.	0.	-6509.	37.	0.	-38.	42.	-231.	0.	0.	0.	140.	-139.	-24.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7230.1	7230.1	-0.03
53	6509.	0.	-6273.	38.	0.	-39.	42.	-229.	0.	0.	0.	147.	-145.	-25.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7000.7	7000.6	-0.03
54	6273.	0.	-6040.	39.	0.	-40.	42.	-227.	0.	0.	0.	153.	-151.	-25.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6772.9	6772.8	-0.03
55	6040.	0.	-5809.	40.	0.	-41.	42.	-224.	0.	0.	0.	160.	-158.	-26.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6547.0	6546.9	-0.03
56	5809.	0.	-5580.	41.	0.	-41.	42.	-222.	0.	0.	0.	167.	-164.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6323.3	6323.2	-0.03
57	5580.	0.	-5354.	41.	0.	-41.	42.	-220.	0.	0.	0.	174.	-170.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6102.0	6102.0	-0.03
58	5354.	0.	-5131.	41.	0.	-42.	42.	-218.	0.	0.	0.	181.	-176.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5883.4	5883.4	-0.03
59	5131.	0.	-4910.	42.	0.	-42.	42.	-215.	0.	0.	0.	188.	-181.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5667.7	5667.6	-0.03

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	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
60	4910.	0.	-4694.	42.	0.	-42.	42.	-213.	0.	0.	0.	195.	-187.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5454.9	5454.9	-0.03
61	4694.	0.	-4480.	42.	0.	-42.	42.	-211.	0.	0.	0.	202.	-193.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5245.4	5245.4	-0.02
62	4480.	0.	-4270.	42.	0.	-42.	42.	-209.	0.	0.	0.	210.	-198.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5039.1	5039.1	-0.02
63	4270.	0.	-4064.	42.	0.	-42.	42.	-206.	0.	0.	0.	217.	-204.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4836.3	4836.3	-0.02
64	4064.	0.	-3862.	42.	0.	-41.	42.	-204.	0.	0.	0.	224.	-209.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4637.0	4636.9	-0.02
65	3862.	0.	-3663.	41.	0.	-41.	42.	-202.	0.	0.	0.	231.	-214.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4441.2	4441.2	-0.02
66	3663.	0.	-3468.	41.	0.	-41.	42.	-200.	0.	0.	0.	238.	-220.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4249.0	4249.0	-0.02
67	3468.	0.	-3277.	41.	0.	-40.	42.	-198.	0.	0.	0.	245.	-225.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4060.5	4060.5	-0.01
68	3277.	0.	-3089.	40.	0.	-39.	42.	-195.	0.	0.	0.	252.	-229.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3875.6	3875.6	-0.01
69	3089.	0.	-2906.	39.	0.	-39.	42.	-193.	0.	0.	0.	258.	-234.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3694.4	3694.4	-0.01
70	2906.	0.	-2727.	39.	0.	-38.	42.	-191.	0.	0.	0.	265.	-239.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3516.7	3516.7	-0.01
71	2727.	0.	-2551.	38.	0.	-36.	42.	-189.	0.	0.	0.	271.	-243.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3342.7	3342.7	-0.01
72	2551.	0.	-2380.	36.	0.	-35.	42.	-187.	0.	0.	0.	277.	-248.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3172.1	3172.0	0.00
73	2380.	0.	-2212.	35.	0.	-32.	42.	-185.	0.	0.	0.	283.	-252.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3004.7	3004.7	0.00
74	2212.	0.	-2049.	32.	0.	-29.	42.	-184.	0.	0.	0.	289.	-256.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2840.5	2840.5	0.00
75	2049.	0.	-1890.	29.	0.	-24.	42.	-182.	0.	0.	0.	294.	-259.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2679.0	2679.0	0.00
76	1890.	0.	-1737.	24.	0.	-17.	42.	-181.	0.	0.	0.	298.	-261.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2519.8	2519.8	0.01
77	1737.	0.	-1588.	17.	0.	-8.	42.	-180.	0.	0.	0.	301.	-263.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2362.1	2362.1	0.01
78	1588.	0.	-1582.	8.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1611.2	1611.2	0.00
79	1582.	0.	-1569.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1598.5	1598.5	0.00
80	1569.	0.	-1557.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1586.2	1586.2	0.00
81	1557.	0.	-1545.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1574.3	1574.3	0.00
82	1545.	0.	-1534.	1.	0.	0.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1562.9	1562.9	0.00
83	1534.	0.	-1523.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1551.9	1551.9	0.00
84	1523.	0.	-1512.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1541.2	1541.2	0.00
85	1512.	0.	-1502.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1531.0	1531.0	0.00

86	1502.	0.	-1492.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1521.3	1521.3	0.00
87	1492.	0.	-1483.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1511.9	1511.9	0.00
88	1483.	0.	-1474.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1502.9	1502.9	0.00
89	1474.	0.	-1466.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1494.3	1494.3	0.00
90	1466.	0.	-1457.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1486.0	1486.0	0.00
91	1457.	0.	-1450.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1478.2	1478.2	0.00
92	1450.	0.	-1442.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1470.8	1470.8	0.00
93	1442.	0.	-1435.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1463.7	1463.7	0.00
94	1435.	0.	-1429.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1457.0	1457.0	0.00
95	1429.	0.	-1422.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1450.7	1450.7	0.00
96	1422.	0.	-1416.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1444.7	1444.7	0.00
97	1416.	0.	-1411.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1439.1	1439.1	0.00
98	1411.	0.	-1406.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1433.9	1433.9	0.00
99	1406.	0.	-1401.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1429.0	1429.0	0.00
100	1401.	0.	-1396.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1424.4	1424.5	0.00
101	1396.	0.	-1392.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1420.3	1420.3	0.00
102	1392.	0.	-1388.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1416.4	1416.4	0.00
103	1388.	0.	-1385.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1412.9	1412.9	0.00
104	1385.	0.	-1382.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1409.8	1409.8	0.00
105	1382.	0.	-1379.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1407.0	1407.0	0.00
106	1379.	0.	-1377.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1404.5	1404.5	0.00
107	1377.	0.	-1374.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1402.3	1402.3	0.00
108	1374.	0.	-1373.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1400.5	1400.5	0.00
109	1373.	0.	-1371.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1399.0	1399.0	0.00
110	1371.	0.	-1370.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1397.8	1397.8	0.00
111	1370.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.9	1396.9	0.00
112	1369.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.3	1396.3	0.00
113	1369.	0.	-1368.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.1	1396.1	0.00
114	1368.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1396.1	1396.1	0.00
115	1369.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1396.5	1396.5	0.00
116	1369.	0.	-1370.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1397.2	1397.2	0.00
117	1370.	0.	-1373.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1383.0	1383.0	0.00
118	1373.	0.	-1376.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1386.2	1386.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	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
119	1376.	0.	-1379.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1389.4	1389.4	0.00
120	1379.	0.	-1383.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1392.6	1392.6	0.00
121	1383.	0.	-1386.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1395.9	1395.9	0.00
122	1386.	0.	-1389.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1399.1	1399.1	0.00
123	1389.	0.	-1392.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1402.3	1402.3	0.00
124	1392.	0.	-1396.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1405.5	1405.5	0.00
125	1396.	0.	-1399.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1408.7	1408.7	0.00
126	1399.	0.	-1402.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1411.9	1411.9	0.00
127	1402.	0.	-1405.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1415.1	1415.1	0.00
128	1405.	0.	-1408.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1418.3	1418.3	0.00
129	1408.	0.	-1412.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1421.5	1421.5	0.00
130	1412.	0.	-1415.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1424.7	1424.7	0.00
131	1415.	0.	-1418.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1427.8	1427.8	0.00
132	1418.	0.	-1421.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1431.0	1431.0	0.00

133	1421.	0.	-1424.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1434.2	1434.2	0.00
134	1424.	0.	-1428.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1437.3	1437.3	0.00
135	1428.	0.	-1431.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1440.5	1440.5	0.00
136	1431.	0.	-1434.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1443.6	1443.6	0.00
137	1434.	0.	-1437.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1446.8	1446.8	0.00
138	1437.	0.	-1440.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1449.9	1449.9	0.00
139	1440.	0.	-1443.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1453.1	1453.1	0.00
140	1443.	0.	-1446.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1456.2	1456.2	0.00
141	1446.	0.	-1450.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1459.3	1459.3	0.00
142	1450.	0.	-1454.	0.	0.	2.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1464.1	1464.1	0.00
172	1454.	285.	-1770.	-2.	32.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1815.4	1815.4	0.00
173	1770.	0.	-1771.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1813.9	1813.9	0.00
174	1771.	0.	-1771.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1814.3	1814.3	0.00
175	1771.	0.	-1772.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1814.9	1814.9	0.00
176	1772.	0.	-1773.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1815.8	1815.8	0.00
177	1773.	0.	-1775.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1816.8	1816.8	0.00
178	1775.	0.	-1776.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1818.1	1818.1	0.00
179	1776.	0.	-1778.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1819.5	1819.5	0.00
180	1778.	0.	-1780.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1821.2	1821.2	0.00
181	1780.	0.	-1782.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1823.0	1823.0	0.00
182	1782.	0.	-1784.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1825.0	1825.0	0.00
183	1784.	0.	-1786.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1827.3	1827.3	0.00
184	1786.	0.	-1789.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1829.7	1829.7	0.00
185	1789.	0.	-1792.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1832.2	1832.2	0.00
186	1792.	0.	-1795.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1835.0	1835.0	0.00
187	1795.	0.	-1798.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1837.9	1837.9	0.00
188	1798.	0.	-1801.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1841.0	1841.0	0.00
189	1801.	0.	-1804.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1844.2	1844.2	0.00
190	1804.	0.	-1808.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1847.6	1847.6	0.00
191	1808.	0.	-1812.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1851.2	1851.2	0.00
192	1812.	0.	-1816.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1854.9	1854.9	0.00
193	1816.	0.	-1820.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1858.8	1858.8	0.00
194	1820.	0.	-1824.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1862.8	1862.8	0.00
195	1824.	0.	-1828.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1866.9	1866.9	0.00
196	1828.	0.	-1833.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1871.2	1871.2	0.00
197	1833.	0.	-1837.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1875.6	1875.6	0.00
198	1837.	0.	-1842.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1880.1	1880.1	0.00
199	1842.	0.	-1847.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1884.8	1884.8	0.00
200	1847.	0.	-1852.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1889.6	1889.6	0.00
201	1852.	0.	-1857.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1894.5	1894.5	0.00
202	1857.	0.	-1862.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1899.5	1899.5	0.00
203	1862.	0.	-1867.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1904.6	1904.6	0.00
204	1867.	0.	-1873.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1909.9	1909.9	0.00
205	1873.	0.	-1878.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1915.2	1915.2	0.00
206	1878.	0.	-1884.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1920.7	1920.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

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
207	1884.	0.	-1890.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1926.2	1926.2	0.00
208	1890.	0.	-1896.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1931.9	1931.9	0.00

209	1896.	0.	-1901.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1937.7	1937.7	0.00
210	1901.	0.	-1907.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1943.5	1943.5	0.00
211	1907.	0.	-1914.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1949.4	1949.4	0.00
212	1914.	0.	-1920.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1955.5	1955.5	0.00
213	1920.	0.	-1926.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1961.6	1961.6	0.00
214	1926.	0.	-1932.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1967.8	1967.8	0.00
215	1932.	0.	-1939.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1974.4	1974.4	0.00
216	1939.	0.	-1953.	0.	0.	1.	0.	0.	0.	0.	0.	21.	-36.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2036.2	2036.2	0.00
217	1953.	0.	-1967.	-1.	0.	1.	0.	0.	0.	0.	0.	21.	-35.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2049.4	2049.4	0.00
218	1967.	0.	-1981.	-1.	0.	1.	0.	0.	0.	0.	0.	21.	-35.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2063.0	2063.0	0.00
219	1981.	0.	-1996.	-1.	0.	1.	0.	0.	0.	0.	0.	20.	-34.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2077.0	2077.0	0.00
220	1996.	0.	-2011.	-1.	0.	1.	0.	0.	0.	0.	0.	20.	-33.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2091.4	2091.4	0.00
221	2011.	0.	-2026.	-1.	0.	1.	0.	0.	0.	0.	0.	19.	-32.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2106.2	2106.2	0.00
222	2026.	0.	-2042.	-1.	0.	1.	0.	0.	0.	0.	0.	19.	-31.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2121.4	2121.4	0.00
223	2042.	0.	-2058.	-1.	0.	0.	0.	0.	0.	0.	0.	19.	-31.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2136.6	2136.6	0.00
224	2058.	0.	-2066.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	22.	0.	0.	-2087.7	2087.7	0.00
225	2066.	0.	-2076.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	24.	0.	0.	-2097.4	2097.4	0.00
226	2076.	0.	-2088.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	26.	0.	0.	-2108.9	2108.9	0.00
227	2088.	0.	-2101.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	28.	0.	0.	-2122.2	2122.2	0.00
228	2101.	0.	-2116.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	29.	0.	0.	-2137.1	2137.1	0.00
229	2116.	0.	-2133.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	31.	0.	0.	-2153.7	2153.7	0.00
230	2133.	0.	-2151.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	33.	0.	0.	-2171.9	2171.9	0.00
231	2151.	0.	-2171.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	35.	0.	0.	-2191.8	2191.8	0.00
232	2171.	0.	-2192.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	36.	0.	0.	-2213.3	2213.3	0.00
244	2192.	67.	-2282.	0.	13.	0.	0.	0.	0.	0.	0.	4.	-6.	0.	0.	0.	-8.	0.	0.	0.	20.	0.	0.	-2297.3	2297.3	0.00
245	2282.	0.	-2288.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-2303.1	2303.1	0.00
246	2288.	0.	-2290.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-8.	0.	0.	0.	13.	0.	0.	-2305.0	2305.0	0.00
247	2290.	0.	-2287.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-8.	0.	0.	0.	8.	0.	0.	-2302.6	2302.6	0.00
248	2287.	0.	-2280.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-9.	0.	0.	0.	4.	0.	0.	-2295.9	2295.9	0.00
249	2280.	0.	-2271.	0.	0.	1.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-2286.2	2286.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Lake Theriot

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
143	6.	0.	-17.	0.	0.	0.	9.	0.	0.	0.	0.	209.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1081.0	1080.9	-0.03
144	17.	0.	-29.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1092.8	1092.8	-0.03
145	29.	0.	-40.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1104.4	1104.3	-0.03
146	40.	0.	-52.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1115.9	1115.8	-0.03
147	52.	0.	-63.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1127.4	1127.4	-0.03
148	63.	0.	-75.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1138.9	1138.9	-0.03
149	75.	0.	-86.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1150.4	1150.4	-0.03
150	86.	0.	-98.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1161.9	1161.9	-0.03
151	98.	0.	-109.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1173.4	1173.4	-0.03
152	109.	0.	-121.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1184.9	1184.9	-0.03
153	121.	0.	-132.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1196.4	1196.4	-0.03
154	132.	0.	-144.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1207.9	1207.9	-0.03
155	144.	0.	-155.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1219.4	1219.4	-0.03
156	155.	0.	-167.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1230.9	1230.9	-0.03
157	167.	0.	-178.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1242.4	1242.4	-0.03
158	178.	0.	-190.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1253.9	1253.9	-0.03
159	190.	0.	-201.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1265.4	1265.4	-0.03

160	201.	0.	-213.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1276.9	1276.9	-0.03
161	213.	0.	-224.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1288.4	1288.4	-0.03
162	224.	0.	-236.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1300.0	1299.9	-0.03
163	236.	0.	-247.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1311.5	1311.4	-0.03
164	247.	0.	-259.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1323.0	1322.9	-0.03
165	259.	0.	-270.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1334.5	1334.4	-0.03
166	270.	0.	-282.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-72.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1346.3	1346.3	-0.03
167	282.	0.	-290.	0.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-302.1	302.1	0.00
168	290.	0.	-297.	-1.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-310.0	310.0	0.00
169	297.	0.	-304.	-1.	0.	0.	2.	0.	0.	0.	0.	1.	-4.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-316.6	316.6	0.00
170	304.	0.	-307.	0.	0.	-4.	2.	0.	0.	0.	0.	1.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-323.0	323.0	0.00
171	307.	0.	-285.	4.	0.	-32.	2.	0.	0.	0.	0.	2.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-330.5	330.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 3: Lake Hache

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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
233	1.	0.	-8.	0.	0.	0.	4.	0.	0.	0.	0.	-139.	-32.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-574.3	574.3	-0.01
234	8.	0.	-15.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-581.6	581.6	-0.01
235	15.	0.	-23.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-589.0	589.0	-0.01
236	23.	0.	-30.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-596.4	596.4	-0.01
237	30.	0.	-38.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-603.7	603.7	-0.01
238	38.	0.	-45.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-611.1	611.1	-0.01
239	45.	0.	-52.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-618.5	618.5	-0.01
240	52.	0.	-60.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-625.8	625.8	-0.01
241	60.	0.	-67.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-633.2	633.2	-0.01
242	67.	0.	-74.	0.	0.	-6.	4.	0.	0.	0.	0.	-138.	-26.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-640.6	640.5	-0.02
243	74.	0.	-67.	6.	0.	-13.	6.	0.	0.	0.	0.	2.	-48.	-2.	0.	0.	-20.	0.	0.	0.	61.	0.	0.	-149.4	149.4	0.00

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

Calibration Simulation for Lake de Cade Theriot and Hache model

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	11.224	6304.1	2642.7	0.0	776.0	97.0	38.8	0.0	0.0	0.0
INCREMENTAL INFLOW	6.672	2882.4	21790.5	0.0	1185.7	576.5	23.1	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-13.400	-6535.2	-6480.8	0.0	-1328.2	-106.3	0.0	0.0	0.0	0.0
WASTELOADS	0.000	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-4.496	-2270.6	-1443.3	0.0	-502.4	-29.9	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		1.4	5.3	0.0	-6.9	0.1	0.2	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	0.0	0.0	0.0					0.0
NATURAL REAERATION		18551.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-55273.7								
BOD#1 DECAY		-16515.4	-16515.4							
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			-124.2	124.2				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-2868.6				-662.5	662.5			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			

PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		55720.3				0.0	-2786.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	17.896	83459.8	24439.5	0.0	1961.7	797.8	724.6	0.0	0.0	0.0
TOTAL OUTPUTS	-17.896	-83463.6	-24439.5	0.0	-1961.7	-798.7	-2786.0	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-3.7	0.0	0.0	0.0	-0.9	-2061.5	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX E:
PLOTS OF CALIBRATED AND OBSERVED WATER QUALITY

Figure E-1. Temperature modeling results for subsegment 120401. 1
Figure E-2. Ammonia modeling results for subsegment 120401. 1
Figure E-3. BOD_u modeling results for subsegment 120401. 2
Figure E-4. DO modeling results for subsegment 120401. 2
Figure E-5. Temperature modeling results for subsegment 120404. 3
Figure E-6. Ammonia modeling results for subsegment 120404. 3
Figure E-7. BOD_u modeling results for subsegment 120404. 4
Figure E-8. DO modeling results for subsegment 120404. 4
Figure E-9. Temperature modeling results for Lake Hatch in subsegment 120405. 5
Figure E-10. Ammonia modeling results for Lake Hatch in subsegment 120405..... 5
Figure E-11. BOD_u modeling results for Lake Hatch in subsegment 120405. 6
Figure E-12. DO modeling results for Lake Hatch in subsegment 120405. 6
Figure E-13. Temperature modeling results for Lake Theriot in subsegment 120405. 7
Figure E-14. Ammonia modeling results for Lake Theriot in subsegment 120405. 7
Figure E-15. BOD_u modeling results for Lake Theriot in subsegment 120405..... 8
Figure E-16. DO modeling results for Lake Theriot in subsegment 120405..... 8
Figure E-17. Temperature modeling results for Lake de Cade in subsegment 120406..... 9
Figure E-18. Ammonia modeling results for Lake de Cade in subsegment 120406. 9
Figure E-19. BOD_u modeling results for Lake de Cade in subsegment 120406. 10
Figure E-20. DO modeling results for Lake de Cade in subsegment 120406. 10

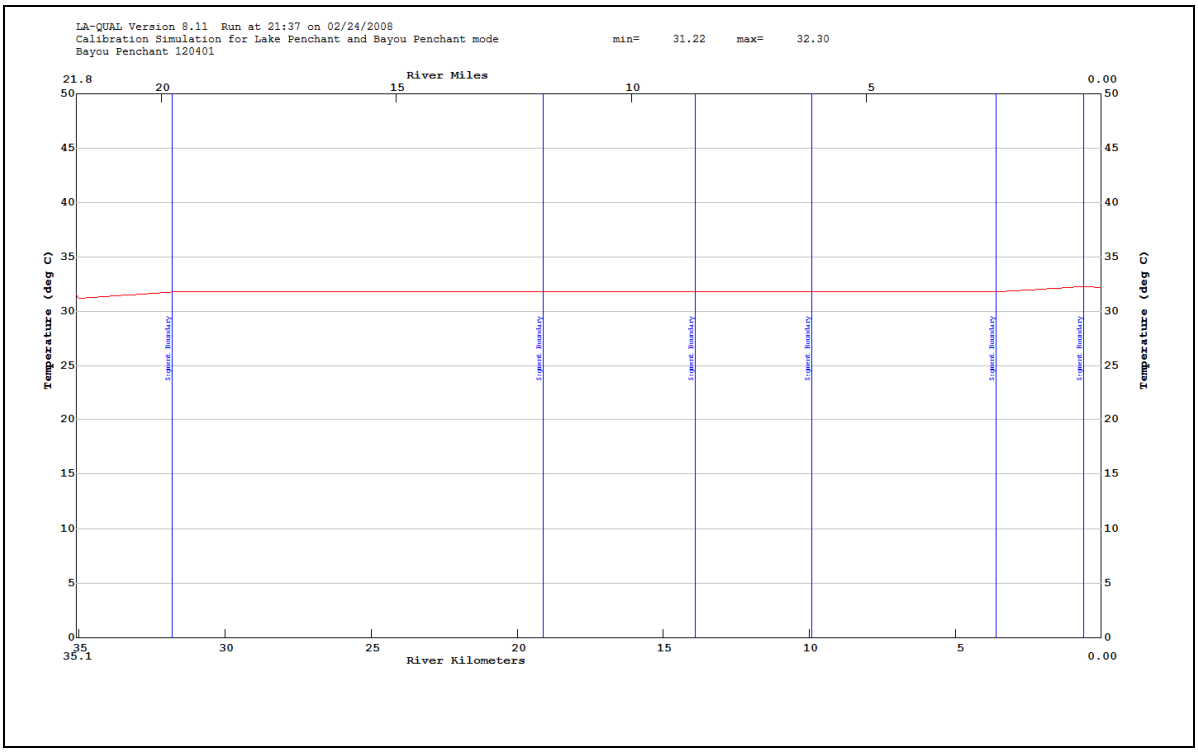

Figure E-1. Temperature modeling results for subsegment 120401.

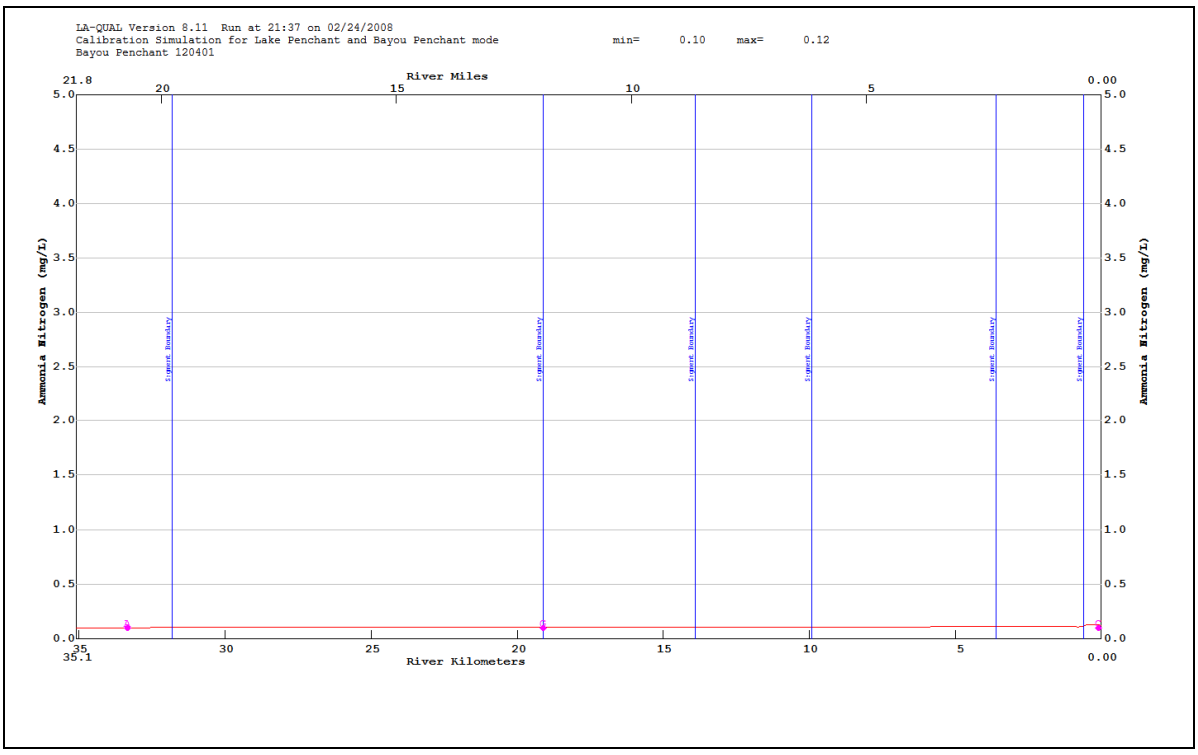

Figure E-2. Ammonia modeling results for subsegment 120401.

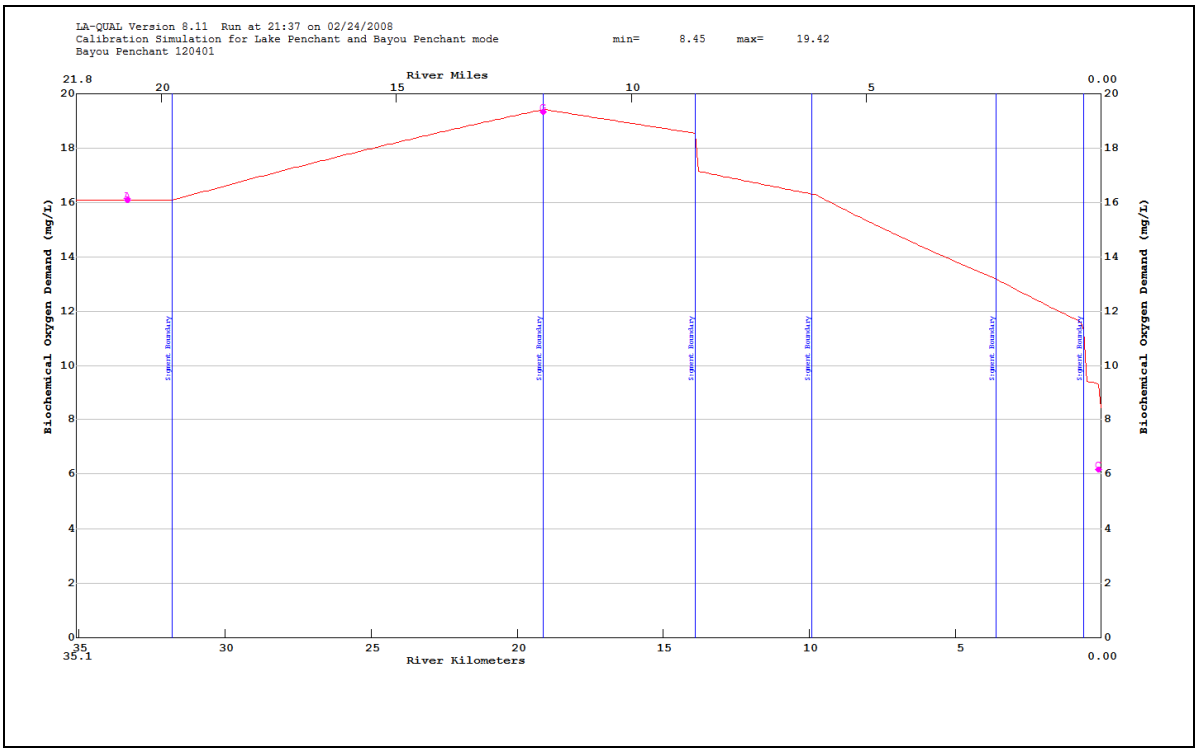

Figure E-3. BOD_u modeling results for subsegment 120401.

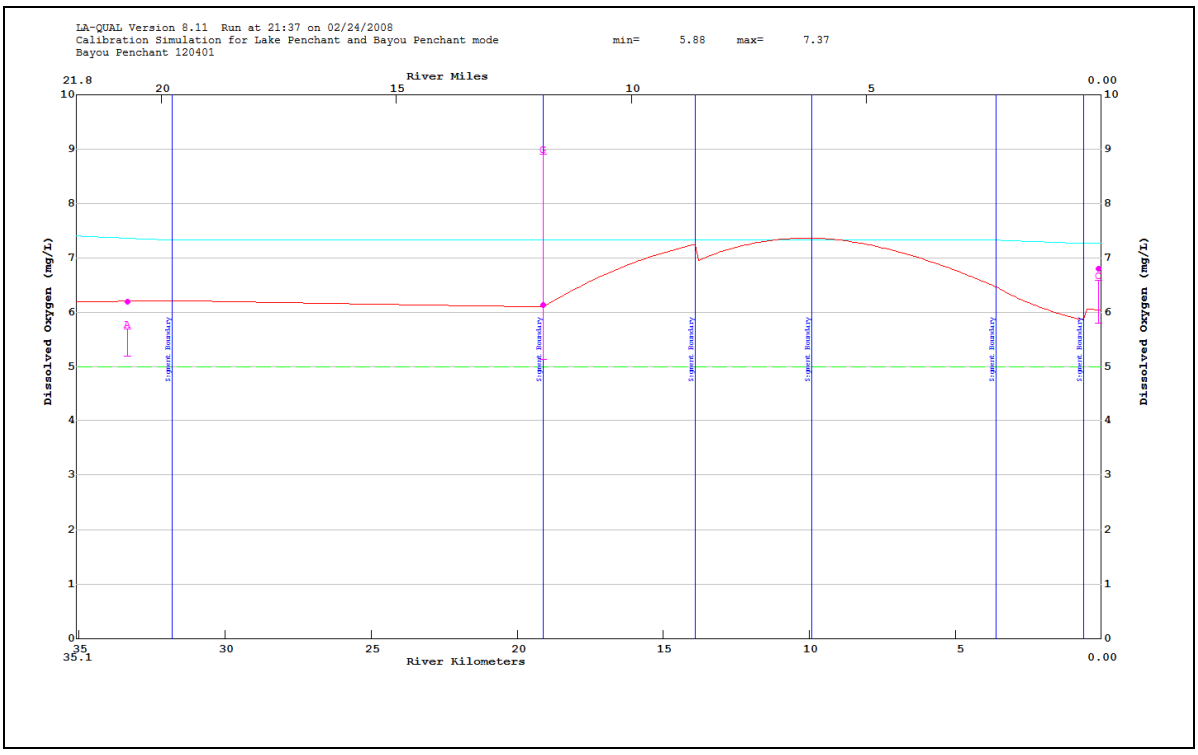

Figure E-4. DO modeling results for subsegment 120401.

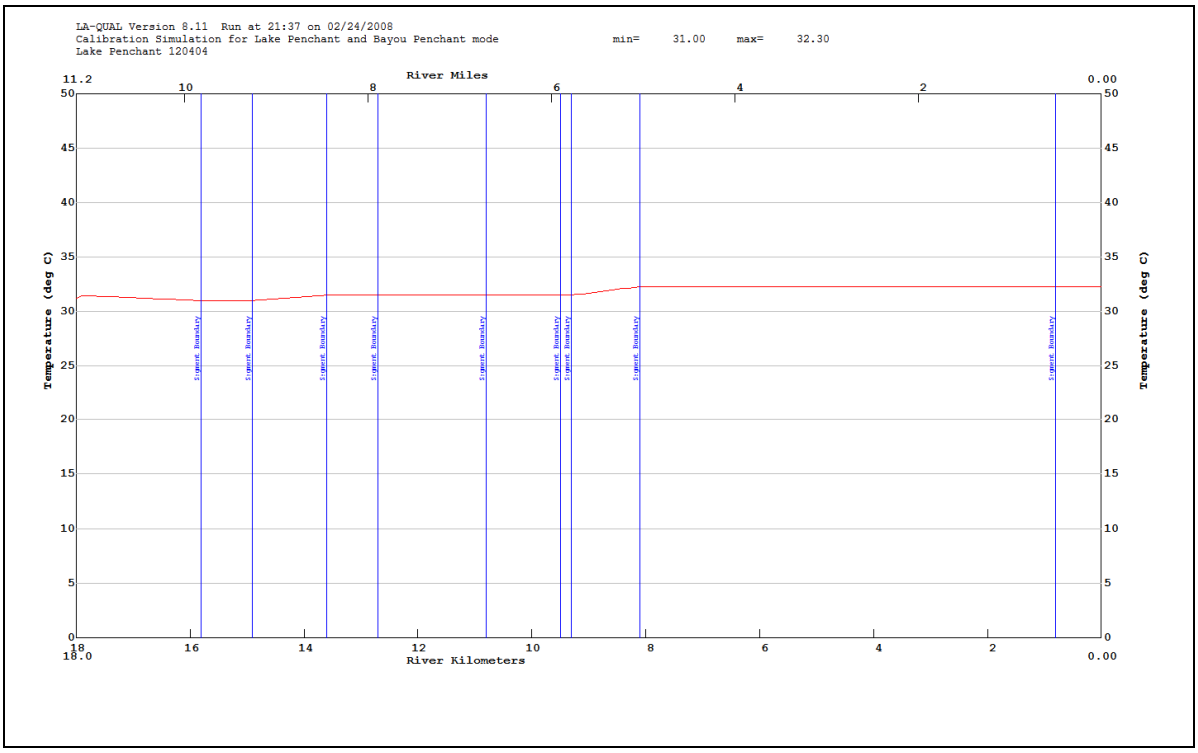

Figure E-5. Temperature modeling results for subsegment 120404.

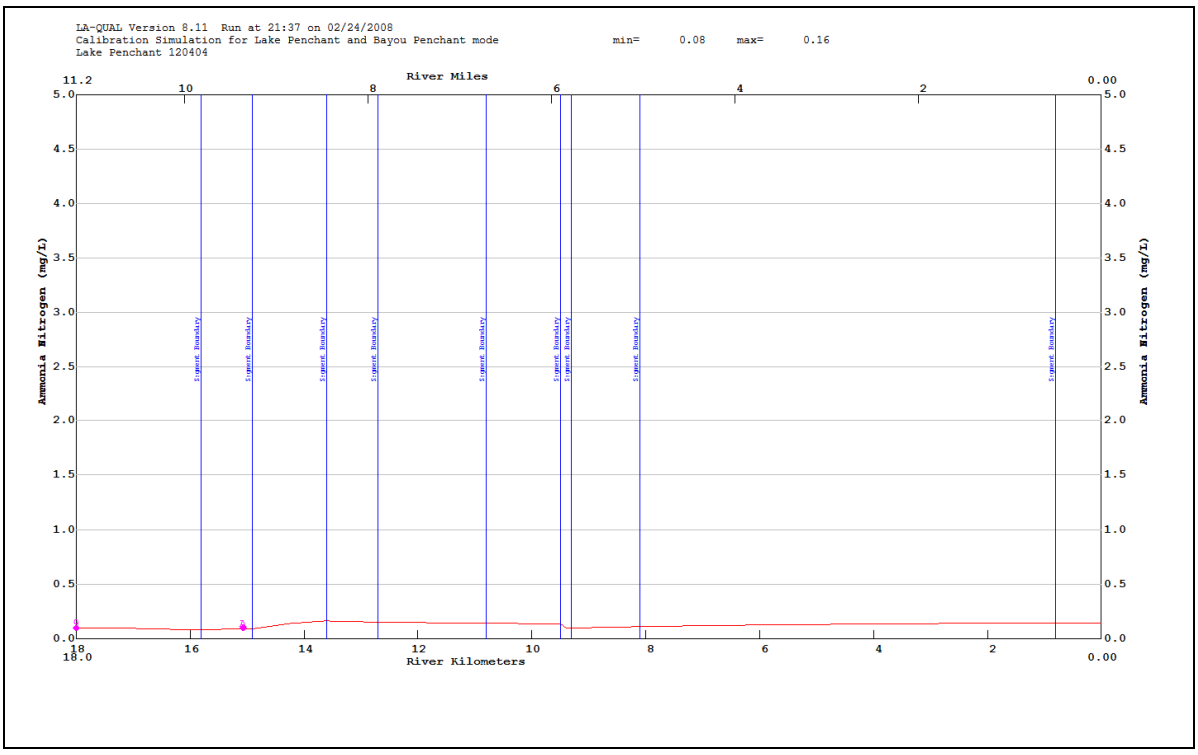

Figure E-6. Ammonia modeling results for subsegment 120404.

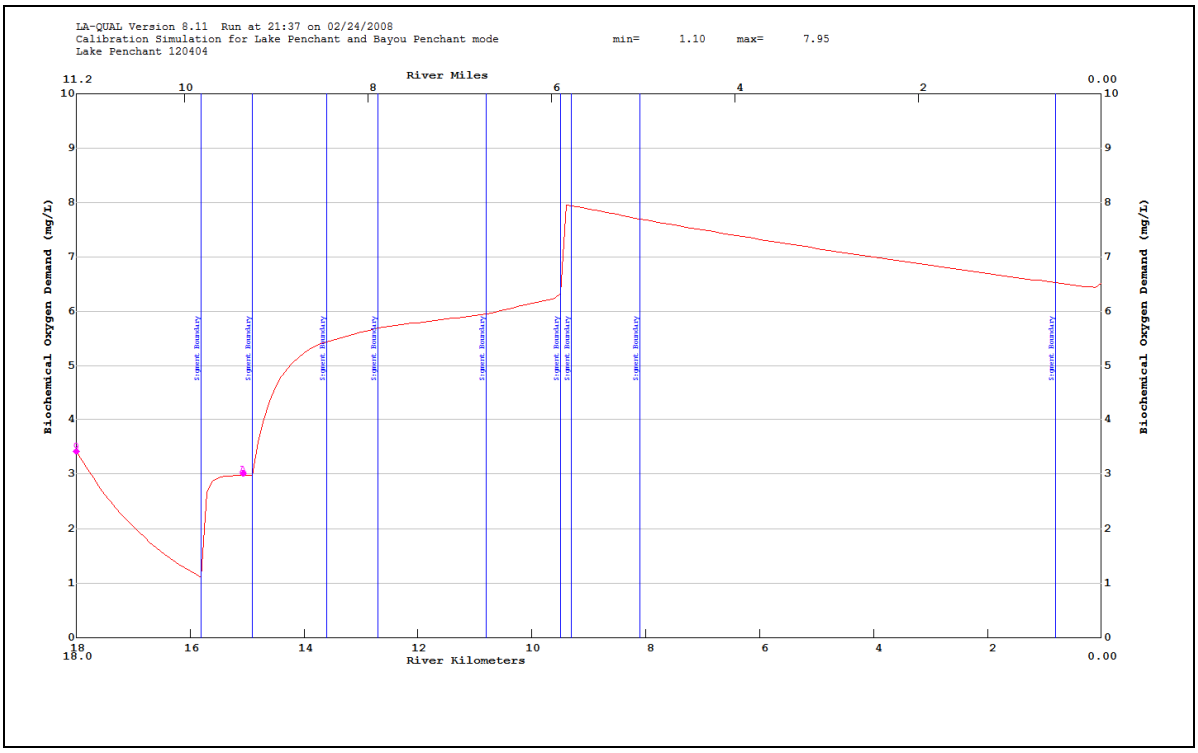

Figure E-7. BOD_u modeling results for subsegment 120404.

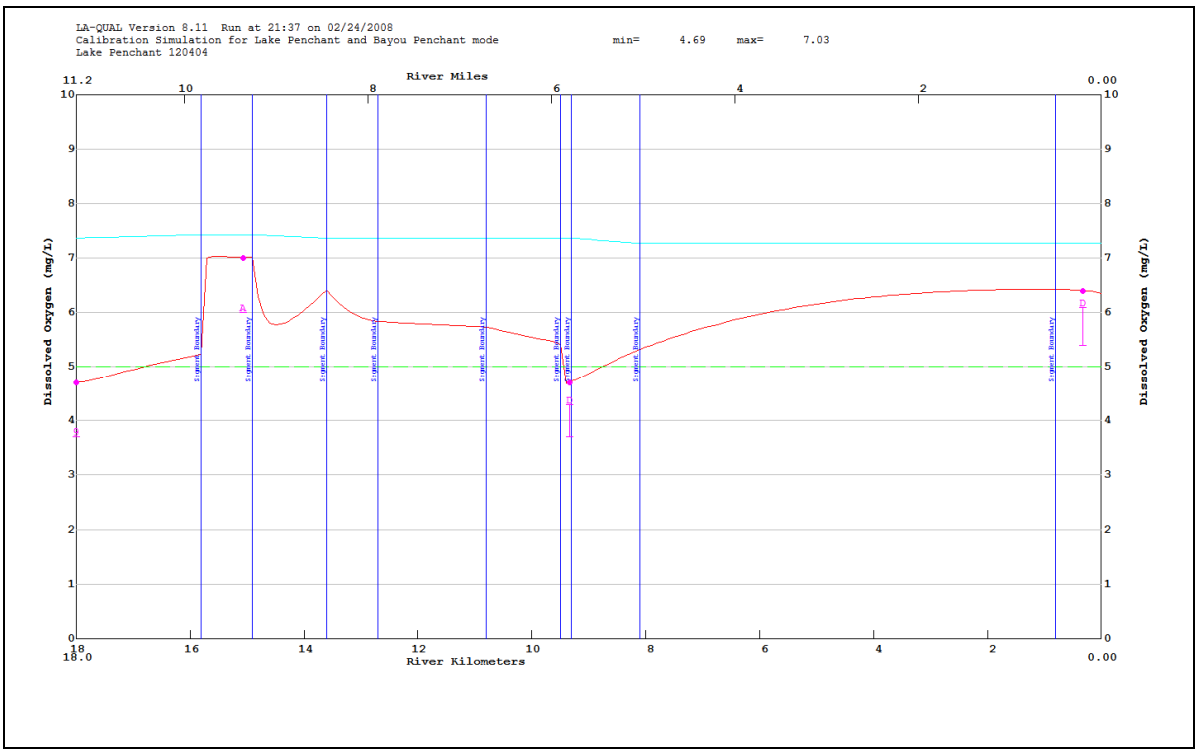

Figure E-8. DO modeling results for subsegment 120404.

Figure E-9. Temperature modeling results for Lake Hatch in subsegment 120405.

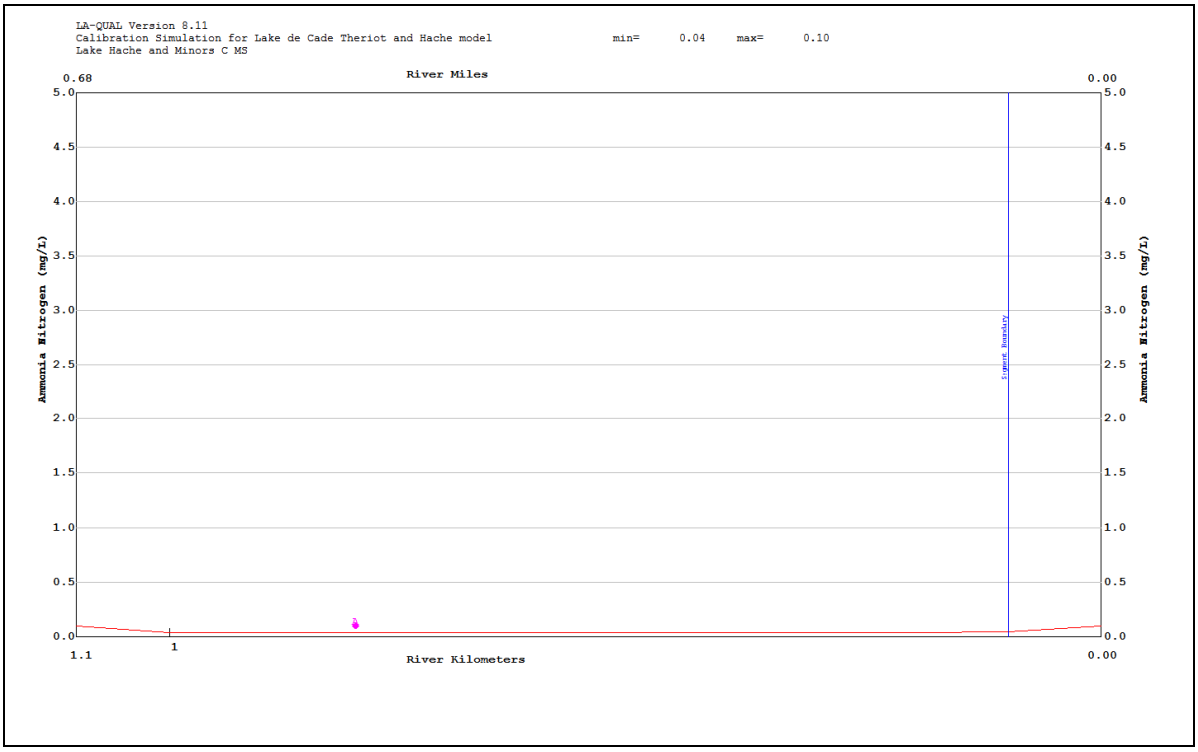

Figure E-10. Ammonia modeling results for Lake Hatch in subsegment 120405.

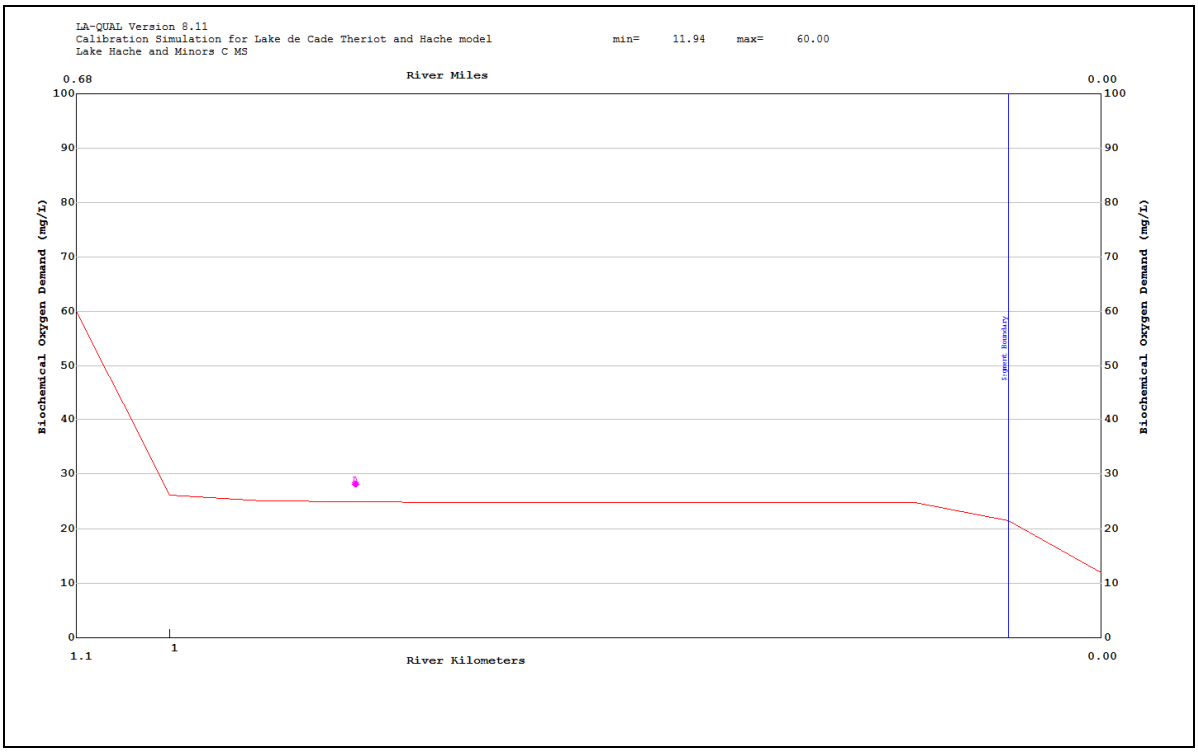

Figure E-11. BOD_u modeling results for Lake Hatch in subsegment 120405.

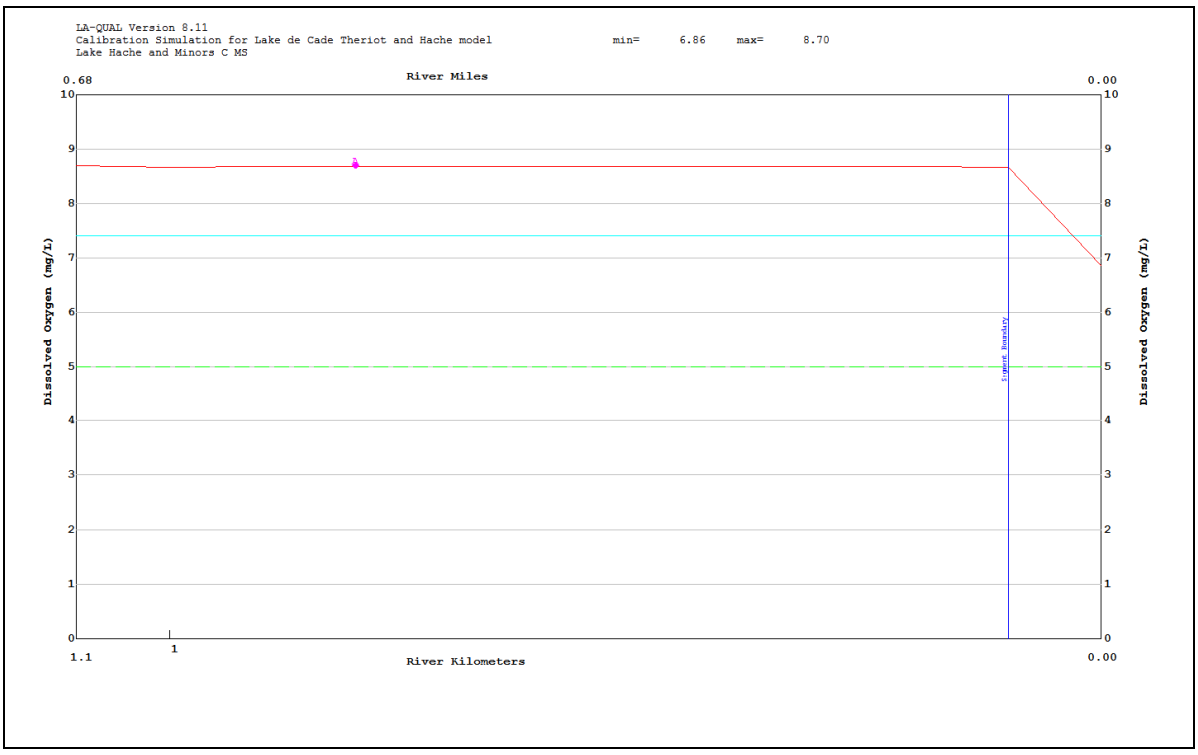

Figure E-12. DO modeling results for Lake Hatch in subsegment 120405.

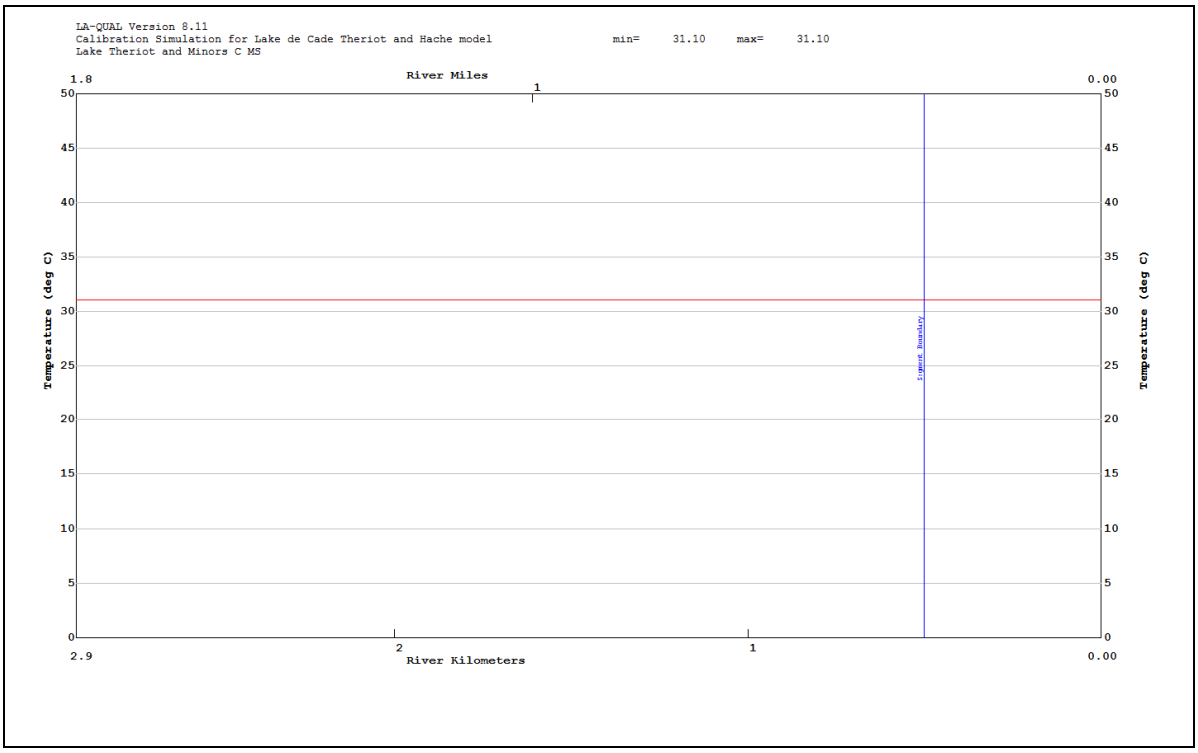

Figure E-13. Temperature modeling results for Lake Theriot in subsegment 120405.

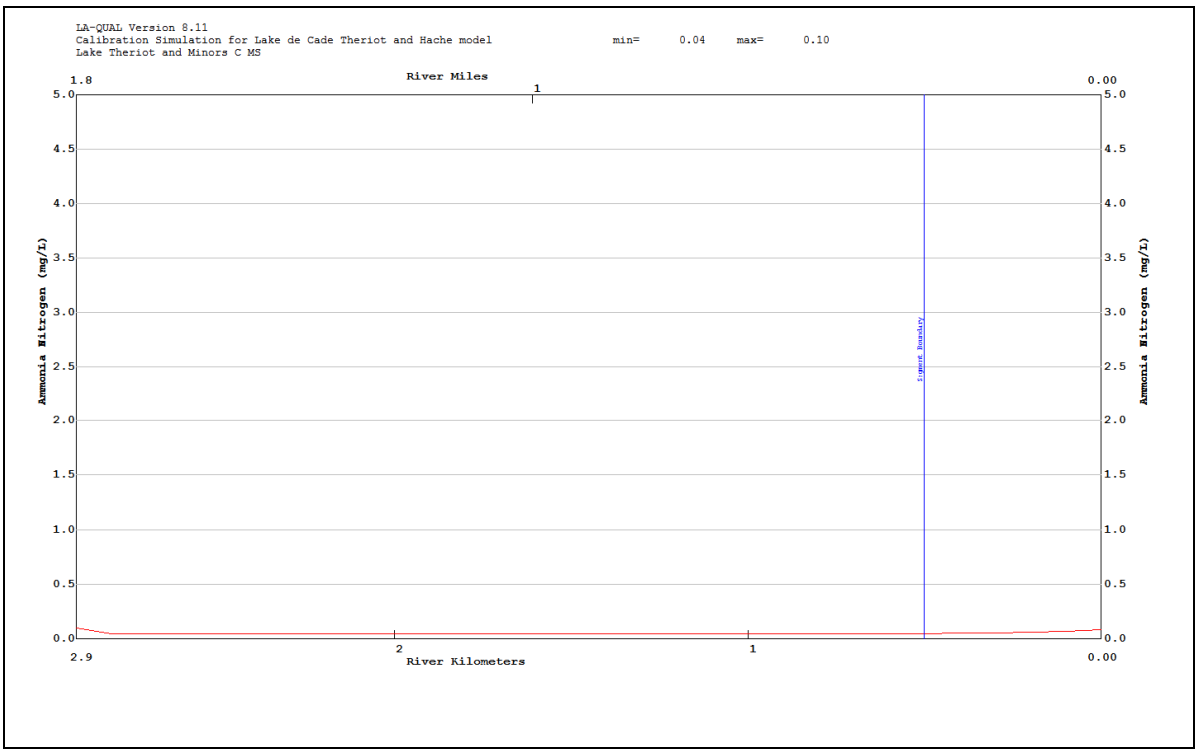

Figure E-14. Ammonia modeling results for Lake Theriot in subsegment 120405.

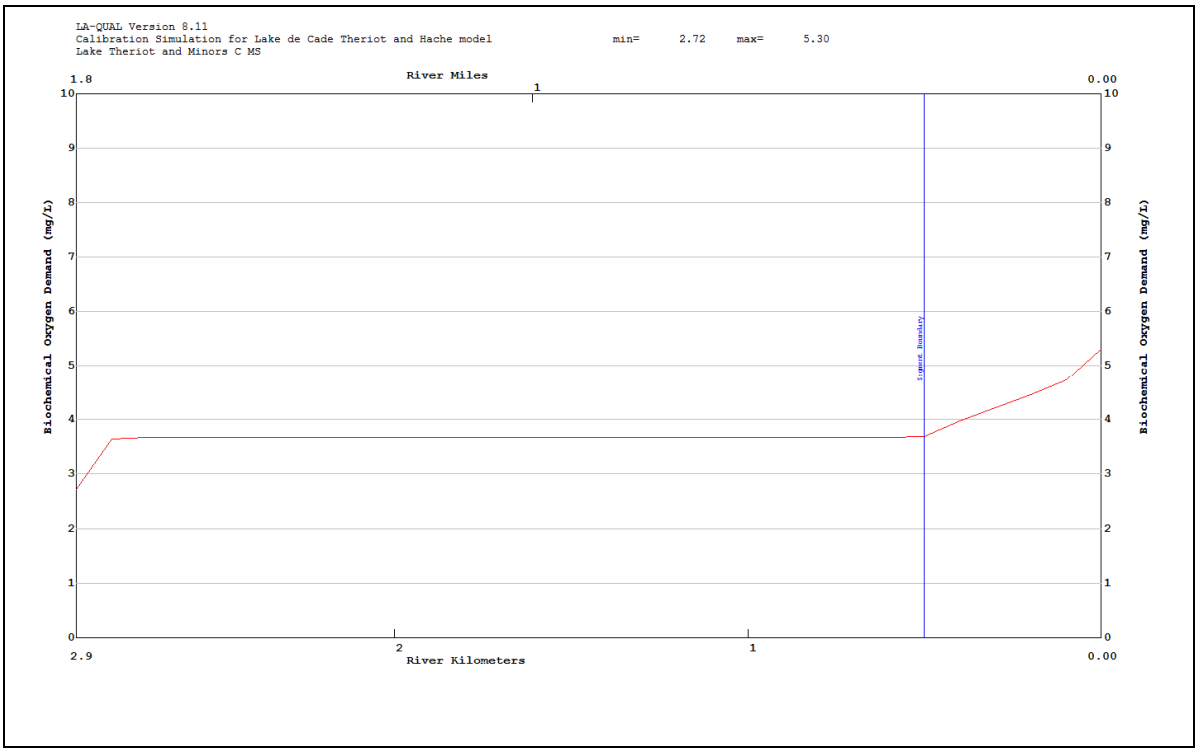

Figure E-15. BOD_u modeling results for Lake Theriot in subsegment 120405.

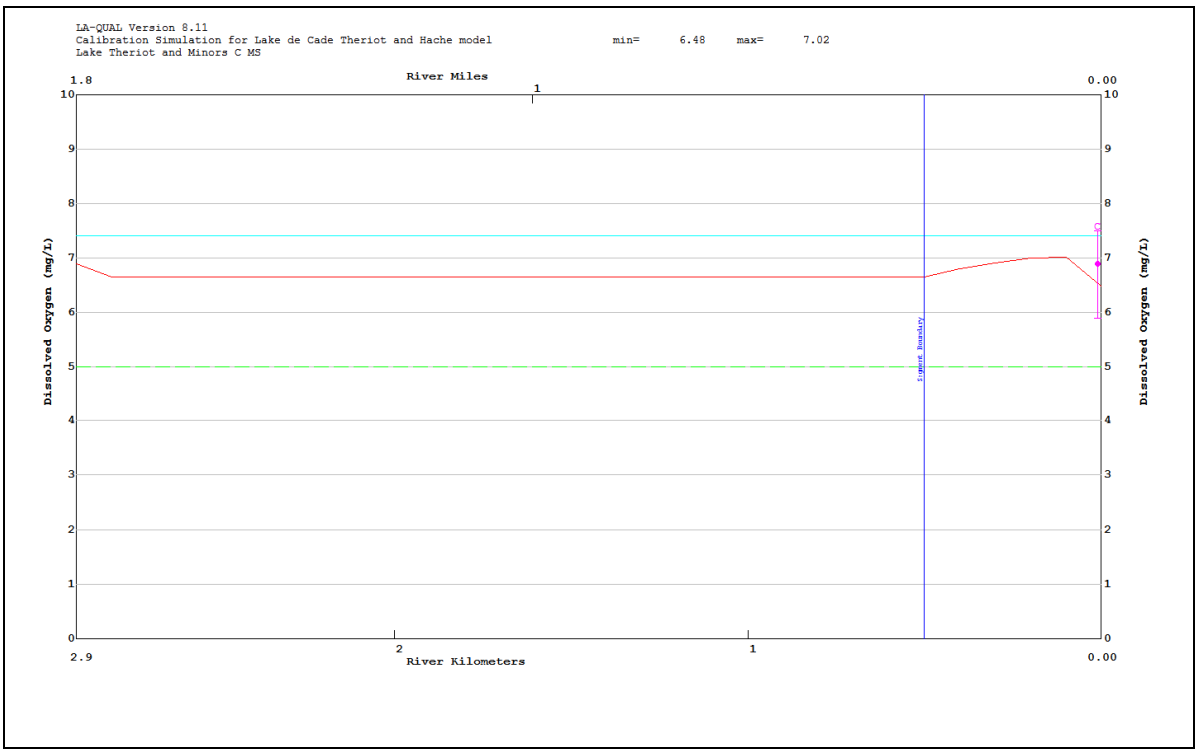

Figure E-16. DO modeling results for Lake Theriot in subsegment 120405.

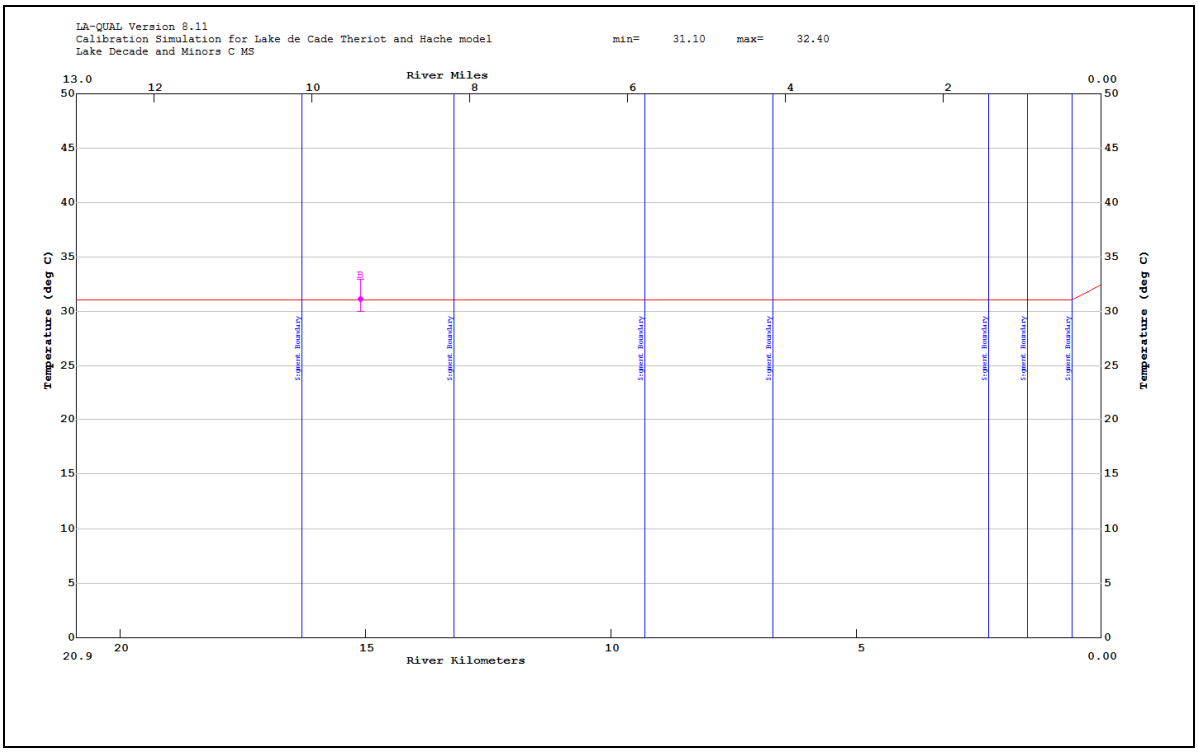

Figure E-17. Temperature modeling results for Lake de Cade in subsegment 120406.

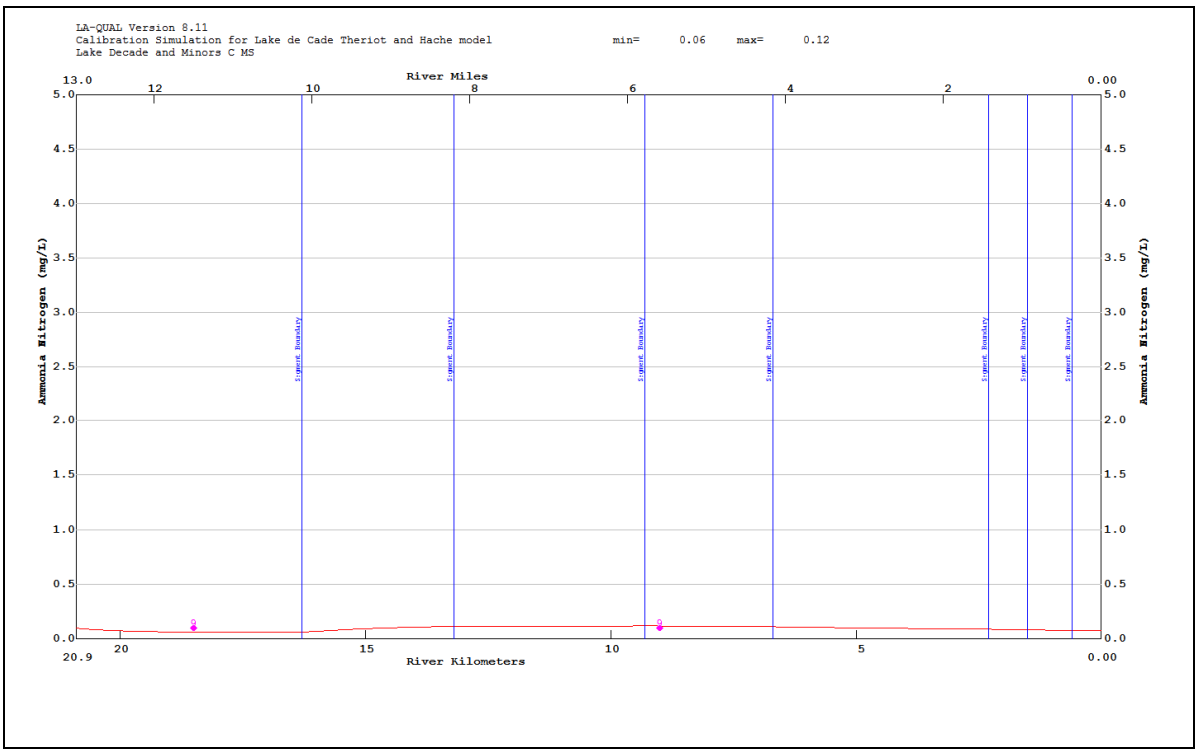

Figure E-18. Ammonia modeling results for Lake de Cade in subsegment 120406.

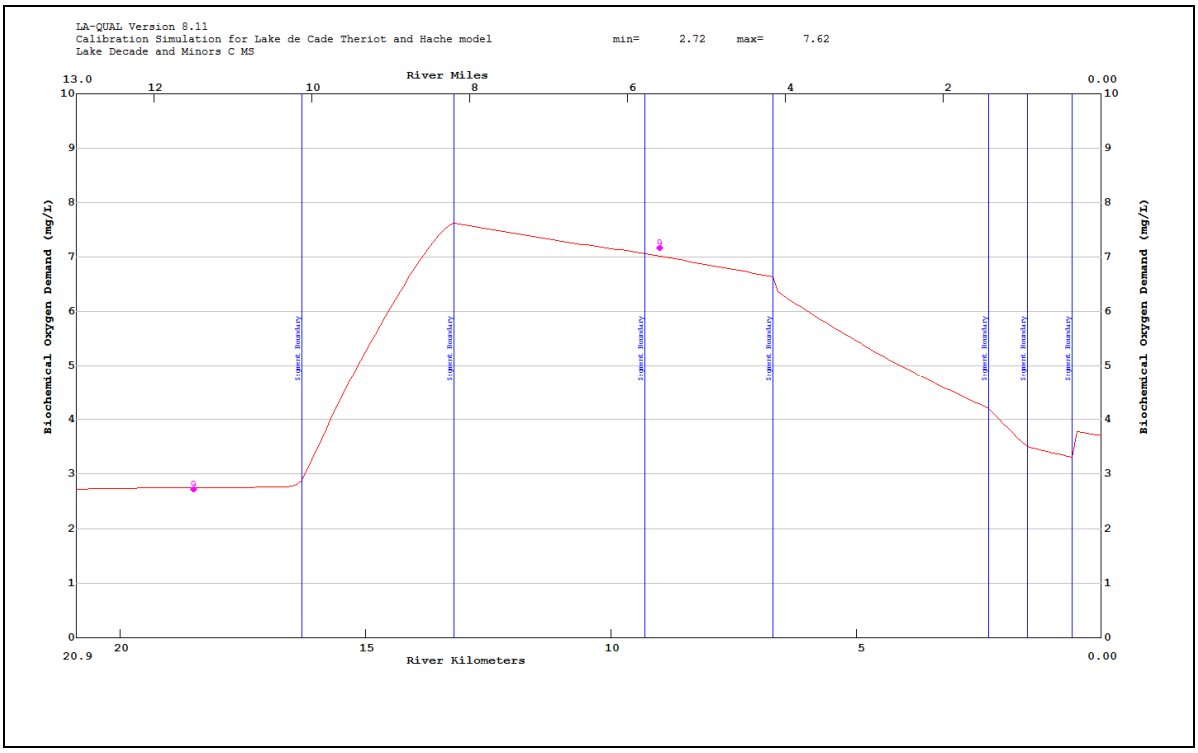

Figure E-19. BOD_u modeling results for Lake de Cade in subsegment 120406.

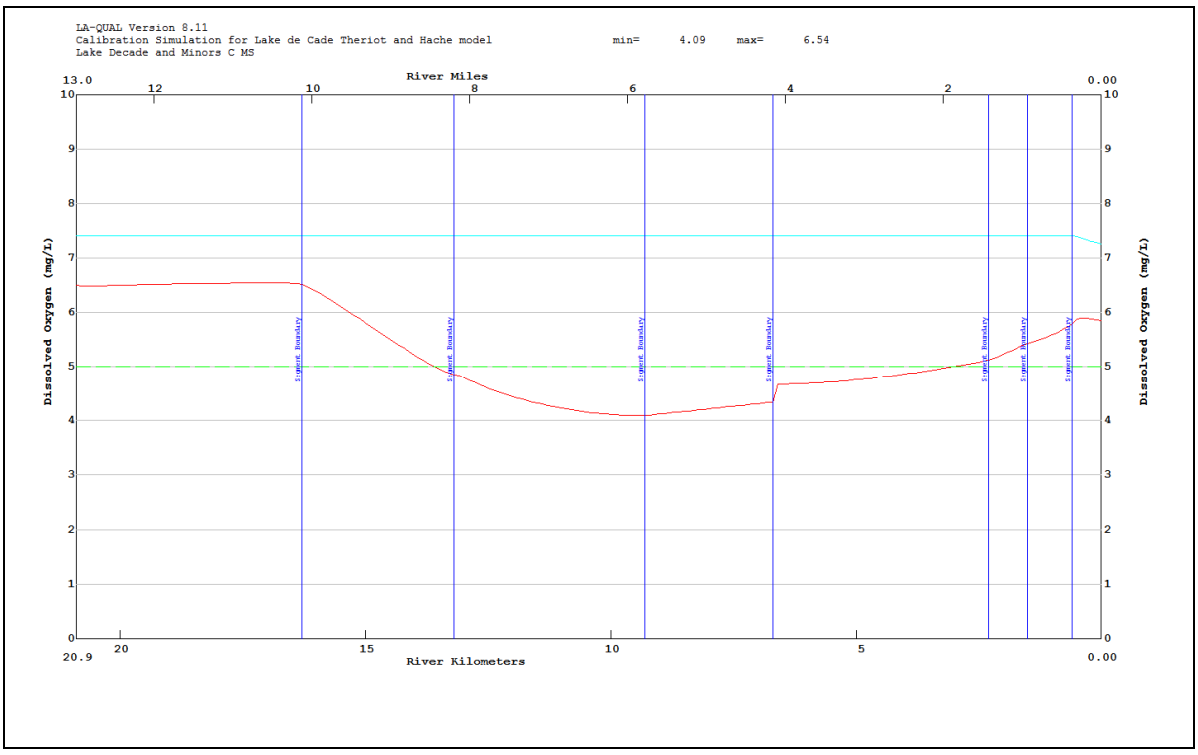

Figure E-20. DO modeling results for Lake de Cade in subsegment 120406.

APPENDIX F:
MODEL OUTPUT FOR BASELINE CONDITIONS

TMDL output file for subsegments 120401/120404 1
TMDL output file for subsegments120405/120406 145

TMDL output file for subsegments 120401/120404

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\Lake_Bayou_Penchant\baseline\Penchant_BASE.txt
Output produced at 14:59 on 02/25/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
TITLE02        Baseline Simulation for Lake Penchant and Bayou Penchant 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                       =        0.60000 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
```

```
$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        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   1  Bayou Chene to Blackbird Bayou     35.10  TO  31.80  0.1000    3.30     33      1    33
REACH ID    2   2  Blackbird Bayou to 120401-G       31.80  TO  19.10  0.1000   12.70    127     34   160
REACH ID    3   3  120401-G to Turtle Bayou          19.10  TO  13.90  0.1000    5.20     52    161   212
REACH ID    4   4  Turtle Bayou to Carenero Bayou    13.90  TO   9.90  0.1000    4.00     40    213   252
REACH ID    5   5  Carenero Bayou to un canal 2       9.90  TO   3.60  0.1000    6.30     63    253   315
REACH ID    6   6  un canal 2 to Corasaw conf.        3.60  TO   0.60  0.1000    3.00     30    316   345
REACH ID    7   7  935 to Peoples Canal and L.P      18.00  TO  15.80  0.1000    2.20     22    346   367
REACH ID    8   8  Peoples C. and L.P to N. Outlet   15.80  TO  14.90  0.1000    0.90      9    368   376
REACH ID    9   9  N. Outlet to L. Penchant W. Sid   14.90  TO  13.60  0.1000    1.30     13    377   389
REACH ID   10  10  L. P. W. Side to L. P W. Outlet   13.60  TO  12.70  0.1000    0.90      9    390   398
REACH ID   11  11  L. P W. Outlet to Superior Cana    12.70  TO  10.80  0.1000    1.90     19    399   417
REACH ID   12  12  Superior Canal to un canal 1       10.80  TO   9.50  0.1000    1.30     13    418   430
REACH ID   13  13  unnamed canal to Brady C/Weir 2     9.50  TO   9.30  0.1000    0.20      2    431   432
REACH ID   14  14  Brady C/Weir 2 to Km#              9.30  TO   8.10  0.1000    1.20     12    433   444
REACH ID   15  15  Km# to Pipeline Canal              8.10  TO   0.80  0.1000    7.30     73    445   517
REACH ID   16  16  Pipeline Canal to Corasaw conf.    0.80  TO   0.00  0.1000    0.80      8    518   525
REACH ID   17  17  Corasaw conf. to 120401-C          0.60  TO   0.00  0.1000    0.60      6    526   531
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   1      0.000     0.000   135.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      2   2      0.000     0.000   110.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      3   3      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      4   4      0.000     0.000   155.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      5   5      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      6   6      0.000     0.000   110.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      7   7      0.000     0.000    35.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      8   8      0.000     0.000  2131.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      9   9      0.000     0.000   983.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     10  10      0.000     0.000   148.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     11  11      0.000     0.000    61.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     12  12      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     13  13      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     14  14      0.000     0.000    70.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     15  15      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     16  16      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     17  17      0.000     0.000    88.000     0.000     0.000     1.402   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                       RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00       0.600         0.000         0.000         0.000
HYDR        2   2     0.00       0.500         0.000         0.000         0.000
HYDR        3   3     0.00       0.400         0.000         0.000         0.000
HYDR        4   4     0.00       0.300         0.000         0.000         0.000
```

```
HYDR      5  5    0.00     0.300     0.000     0.000     0.000
HYDR      6  6    0.00     0.400     0.000     0.000     0.000
HYDR      7  7    0.00     0.000     0.000     0.000     0.000
HYDR      8  8    0.00     0.000     0.000     0.000     0.000
HYDR      9  9    0.00     0.000     0.000     0.000     0.000
HYDR     10  10    0.00     0.000     0.000     0.000     0.000
HYDR     11  11    0.00     0.300     0.000     0.000     0.000
HYDR     12  12    0.00     0.200     0.000     0.000     0.000
HYDR     13  13    0.00     0.100     0.000     0.000     0.000
HYDR     14  14    0.00     0.100     0.000     0.000     0.000
HYDR     15  15    0.00     0.100     0.000     0.000     0.000
HYDR     16  16    0.00     0.100     0.000     0.000     0.000
HYDR     17  17    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  1    31.20    0.00    5.00   0.10   0.33    0.00   70.00    0.00
INITIAL        2  2    31.80    0.00    5.00   0.10   0.33    0.00   75.00    0.00
INITIAL        3  3    31.80    0.00    5.00   0.10   0.33    0.00   80.00    0.00
INITIAL        4  4    31.80    0.00    5.00   0.10   0.33    0.00   60.00    0.00
INITIAL        5  5    31.80    0.00    5.00   0.10   0.33    0.00   40.00    0.00
INITIAL        6  6    31.80    0.00    5.00   0.10   0.33    0.00   24.00    0.00
INITIAL        7  7    31.50    0.00    5.00   0.12   0.05    0.00   10.00    0.00
INITIAL        8  8    31.00    0.00    5.00   0.12   0.05    0.00   10.00    0.00
INITIAL        9  9    31.00    0.00    5.00   0.12   0.05    0.00   10.00    0.00
INITIAL       10  10    31.50    0.00    5.00   0.12   0.05    0.00   25.00    0.00
INITIAL       11  11    31.50    0.00    5.00   0.12   0.05    0.00   38.00    0.00
INITIAL       12  12    31.50    0.00    5.00   0.10   0.05    0.00   38.00    0.00
INITIAL       13  13    31.50    0.00    5.00   0.10   0.05    0.00   38.00    0.00
INITIAL       14  14    31.50    0.00    5.00   0.10   0.05    0.00   38.00    0.00
INITIAL       15  15    32.30    0.00    5.00   0.10   0.05    0.00   38.00    0.00
INITIAL       16  16    32.30    0.00    5.00   0.10   0.05    0.00   30.00    0.00
INITIAL       17  17    32.30    0.00    5.00   0.10   0.05    0.00   24.00    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   1   3 OCONNER-DOBB   0.000   0.000   0.000   2.500   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2   2   3 OCONNER-DOBB   0.000   0.000   0.000   2.700   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3   3   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4   4   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5   5   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6   6   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7   7   3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8   8  20 K2=a/D         0.930   0.000   0.000   0.600   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9   9  20 K2=a/D         0.930   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  10   3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  11   3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
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COEFF-1  12  12  3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  13  13  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  14  14  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  15  15  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  16  16  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  17  17  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
ENDATA12
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
CARD TYPE    REACH  ID     ORG-N    ORG-N  ORGN CONV     NH3      NH3     PHOS    DENIT
                      DECA     SETT  TO NH3 SRCE    DECA     SRCE     SRCE     RATE
COEFF-2        1   1    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        2   2    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        3   3    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        4   4    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        5   5    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        6   6    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        7   7    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        8   8    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        9   9    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2       10  10    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       11  11    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       12  12    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       13  13    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       14  14    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       15  15    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       16  16    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       17  17    0.020   0.000   0.000   0.150   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
INCR-1         1   1   -0.70000    0.50000   30.00    0.00    0.00    0.00  0.15152  -0.21212
INCR-1         2   2   -5.20000    5.00000   30.00    0.00    0.00    0.00  0.39370  -0.40945
INCR-1         3   3   -0.70000    0.50000   30.00    0.00    0.00    0.00  0.09615  -0.13462
INCR-1         4   4   -0.70000    0.50000   30.00    0.00    0.00    0.00  0.12500  -0.17500
INCR-1         5   5   -0.70000    0.50000   30.00    0.00    0.00    0.00  0.07937  -0.11111
INCR-1         6   6   -0.70000    0.50000   30.00    0.00    0.00    0.00  0.16667  -0.23333
INCR-1         7   7    0.00000    0.00000    0.00    0.00    0.00    0.00  0.00000   0.00000
INCR-1         8   8    0.00000    1.53760   30.00    0.00    0.00    0.00  1.70844   0.00000
INCR-1         9   9   -1.60000    3.58780   30.00    0.00    0.00    0.00  2.75985  -1.23077
INCR-1        10  10   -0.50000    0.50000   30.00    0.00    0.00    0.00  0.55556  -0.55556
INCR-1        11  11   -0.50000    0.50000   30.00    0.00    0.00    0.00  0.26316  -0.26316
INCR-1        12  12   -0.50000    0.50000   30.00    0.00    0.00    0.00  0.38462  -0.38462
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INCR-1      13  13    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
INCR-1      14  14    0.00000   0.02550   30.00    0.00    0.00    0.00  0.02125  0.00000
INCR-1      15  15    0.00000   0.20390   30.00    0.00    0.00    0.00  0.02793  0.00000
INCR-1      16  16    0.00000   0.02550   30.00    0.00    0.00    0.00  0.03187  0.00000
INCR-1      17  17    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    REACH  ID      DO     BOD    ORG-N    NH3-N    NO3-N    BOD#2
INCR-2       1   1    5.00   50.00   1.30    0.10    0.04    0.00
INCR-2       2   2    5.00   50.00   3.10    0.10    0.04    0.00
INCR-2       3   3    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       4   4    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       5   5    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       6   6    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       7   7    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2       8   8    5.00    9.30   1.30    0.10    0.04    0.00
INCR-2       9   9    5.00    9.30   2.80    0.10    0.04    0.00
INCR-2      10  10    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      11  11    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      12  12    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      13  13    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2      14  14    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      15  15    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      16  16    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      17  17    0.00    0.00   0.00    0.00    0.00    0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE    REACH  ID     PHOS    CHL A    COLI     NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE    REACH  ID    BOD#1    ORG-N    COLI     NCM      DO    BOD#2
NONPOINT      1   1    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      2   2    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      3   3    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      4   4    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      5   5    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      6   6    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      7   7    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      8   8    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      9   9    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     10  10    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     11  11    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     12  12    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     13  13    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     14  14    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     15  15    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     16  16    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     17  17    0.00    0.00    0.00    0.00    0.00    0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE    ELEMENT   NAME                UNIT    FLOW    FLOW   TEMP   SALIN    CM-I    CM-II
                                          m³/s    cfs   deg C    ppt
HDWTR-1        1    Bayou Chene          0  17.38664  613.935   30.00    0.00    0.000    0.000   0.00
HDWTR-1      346    Station 935          0   0.03776    1.333   31.10    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    Bayou Chene             6.20    16.08     1.60     0.10     0.56     0.00
HDWTR-2      346    Station 935             5.00     3.42     0.90     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       526    345      0.60   Penchant-Copasaw 1
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     161     19.10  TRIB 1 OUTFLOW      -3.75680 -132.65536  -85.750  230.00     0.00     0.000    0.000
WSTLD-1     213     13.90  TRIB 2 INFLOW        1.69902   59.99364   38.781   30.00     0.00     0.000    0.000
WSTLD-1     253      9.90  TRIB 3 OUTFLOW      -9.21150 -325.26483 -210.255  230.00     0.00     0.000    0.000
WSTLD-1     380     14.60  TRIB 4 OUTFLOW       0.00000    0.00000    0.000   30.00     0.00     0.000    0.000
WSTLD-1     431      9.50  TRIB 5 INFLOW        3.28477  115.98764   74.976   30.00     0.00     0.000    0.000
WSTLD-1     433      9.30  TRIB 6 OUTFLOW      -1.74630  -61.66314  -39.860  130.00     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      161    TRIB 1 OUTFLOW          5.00     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2      213    TRIB 2 INFLOW           5.00     3.40     0.00     2.00     0.05     0.00     0.00     0.00
WSTLD-2      253    TRIB 3 OUTFLOW          5.00     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2      380    TRIB 4 OUTFLOW          5.00     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2      431    TRIB 5 INFLOW           5.00    10.00     0.00     4.00     0.05     0.00     0.00     0.00
WSTLD-2      433    TRIB 6 OUTFLOW          5.00     3.40     0.00     1.00     0.05     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                        32.200     deg C
LOWER BC     SALINITY                        0.000     ppt
LOWER BC     CONSERVATIVE MATERIAL I                0.000
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LOWER BC    CONSERVATIVE MATERIAL II              0.000
LOWER BC    DISSOLVED OXYGEN                    6.100    mg/L
LOWER BC    BIOCHEMICAL OXYGEN DEMAND             2.200    mg/L
LOWER BC    ORGANIC NITROGEN                    0.000    mg/L
LOWER BC    AMMONIA NITROGEN                    0.100    mg/L
LOWER BC    NITRATE + NITRITE                  0.050    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                     24.000    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 =   7
PLOT RCH  1  2  3  4  5  6 17
NUMBER OF REACHES IN PLOT 1 =  10
PLOT RCH  7  8  9 10 11 12 13 14 15 16
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 BayouPenchant.OVL            :Bayou Penchant 120401
OVERLAY 2 LakePenchant.OVL             :Lake Penchant 120404
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 Model for Lake Penchant and Bayou Penchant (subsegments
    mg/L                                 Baseline Simulation for Lake Penchant and Bayou Penchant model
 ID   RCH  ELEM       +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
  1    1    1      6.19    6.19    6.18    6.18    6.17    6.17    6.16    6.16    6.16    6.15
  1    1   11      6.15    6.14    6.14    6.14    6.13    6.13    6.12    6.12    6.12    6.11
  1    1   21      6.11    6.11    6.11    6.10    6.10    6.10    6.10    6.09    6.09    6.09
  1    1   31      6.09    6.08    6.08
  2    2   34      6.08    6.07    6.07    6.06    6.06    6.05    6.05    6.04    6.04    6.04
  2    2   44      6.03    6.03    6.02    6.02    6.01    6.01    6.00    6.00    6.00    5.99
  2    2   54      5.99    5.98    5.98    5.97    5.97    5.97    5.96    5.96    5.95    5.95
  2    2   64      5.95    5.94    5.94    5.93    5.93    5.93    5.92    5.92    5.91    5.91
  2    2   74      5.91    5.90    5.90    5.89    5.89    5.89    5.88    5.88    5.87    5.87
  2    2   84      5.87    5.86    5.86    5.86    5.85    5.85    5.85    5.84    5.84    5.83
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2	2	94	5.83	5.83	5.82	5.82	5.82	5.81	5.81	5.81	5.80	5.80
2	2	104	5.80	5.79	5.79	5.79	5.78	5.78	5.78	5.77	5.77	5.77
2	2	114	5.76	5.76	5.76	5.75	5.75	5.75	5.74	5.74	5.74	5.74
2	2	124	5.73	5.73	5.73	5.72	5.72	5.72	5.71	5.71	5.71	5.71
2	2	134	5.70	5.70	5.70	5.69	5.69	5.69	5.69	5.68	5.68	5.68
2	2	144	5.67	5.67	5.67	5.67	5.66	5.66	5.66	5.66	5.65	5.65
2	2	154	5.65	5.65	5.64	5.64	5.64	5.64	5.63			
3	3	161	5.68	5.73	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14
3	3	171	6.19	6.23	6.28	6.32	6.37	6.41	6.45	6.49	6.53	6.57
3	3	181	6.61	6.65	6.69	6.72	6.76	6.80	6.83	6.86	6.90	6.93
3	3	191	6.96	6.99	7.02	7.05	7.08	7.11	7.14	7.16	7.19	7.21
3	3	201	7.24	7.26	7.29	7.31	7.33	7.35	7.37	7.39	7.41	7.43
3	3	211	7.45	7.46								
4	4	213	7.22	7.25	7.29	7.32	7.35	7.37	7.40	7.43	7.45	7.48
4	4	223	7.50	7.52	7.54	7.56	7.58	7.59	7.61	7.63	7.64	7.65
4	4	233	7.67	7.68	7.69	7.70	7.70	7.71	7.72	7.72	7.73	7.73
4	4	243	7.73	7.73	7.74	7.74	7.73	7.73	7.73	7.73	7.72	7.72
5	5	253	7.71	7.71	7.70	7.69	7.67	7.66	7.65	7.64	7.63	7.62
5	5	263	7.60	7.59	7.58	7.56	7.55	7.53	7.52	7.50	7.49	7.47
5	5	273	7.46	7.44	7.42	7.40	7.39	7.37	7.35	7.33	7.31	7.30
5	5	283	7.28	7.26	7.24	7.22	7.20	7.18	7.16	7.14	7.11	7.09
5	5	293	7.07	7.05	7.03	7.01	6.98	6.96	6.94	6.92	6.89	6.87
5	5	303	6.85	6.82	6.80	6.77	6.75	6.72	6.70	6.67	6.65	6.62
5	5	313	6.60	6.57	6.55							
6	6	316	6.51	6.48	6.45	6.42	6.39	6.36	6.34	6.31	6.28	6.26
6	6	326	6.23	6.21	6.19	6.16	6.14	6.12	6.10	6.08	6.06	6.04
6	6	336	6.02	6.01	5.99	5.97	5.96	5.94	5.93	5.91	5.90	5.92
17	17	526	6.15	6.15	6.14	6.14	6.14	6.13				
7	7	346	4.91	4.90	4.94	4.98	5.04	5.09	5.14	5.18	5.22	5.26
7	7	356	5.29	5.32	5.35	5.38	5.40	5.42	5.44	5.46	5.48	5.49
7	7	366	5.51	5.52								
8	8	368	7.03	7.03	7.03	7.02	7.02	7.02	7.02	7.02	7.02	
9	9	377	6.26	5.93	5.79	5.76	5.77	5.82	5.88	5.96	6.04	6.13
9	9	387	6.22	6.31	6.41							
10	10	390	6.29	6.18	6.09	6.01	5.95	5.90	5.86	5.84	5.83	
11	11	399	5.82	5.81	5.81	5.80	5.80	5.79	5.78	5.78	5.77	5.77
11	11	409	5.76	5.76	5.75	5.75	5.74	5.74	5.74	5.73	5.73	
12	12	418	5.70	5.67	5.65	5.62	5.60	5.58	5.55	5.53	5.51	5.49
12	12	428	5.47	5.45	5.42							
13	13	431	5.26	5.29								
14	14	433	5.31	5.34	5.38	5.41	5.44	5.47	5.50	5.53	5.56	5.59
14	14	443	5.62	5.65								
15	15	445	5.67	5.70	5.72	5.75	5.77	5.79	5.82	5.84	5.86	5.88
15	15	455	5.90	5.92	5.94	5.96	5.98	5.99	6.01	6.03	6.05	6.06
15	15	465	6.08	6.09	6.11	6.12	6.14	6.15	6.16	6.18	6.19	6.20
15	15	475	6.21	6.22	6.23	6.24	6.26	6.27	6.27	6.28	6.29	6.30
15	15	485	6.31	6.32	6.33	6.33	6.34	6.35	6.35	6.36	6.37	6.37
15	15	495	6.38	6.38	6.39	6.39	6.40	6.40	6.41	6.41	6.41	6.42
15	15	505	6.42	6.42	6.42	6.43	6.43	6.43	6.43	6.43	6.44	6.44
15	15	515	6.44	6.44	6.44							

16 16 518 6.44 6.44 6.43 6.43 6.42 6.42 6.41 6.39

INTERMEDIATE REPORT

Effective BOD LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.09	16.09	16.09	16.09	16.09	16.09	16.09
1	1	21	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.08
1	1	31	16.08	16.08	16.09							
2	2	34	16.14	16.19	16.24	16.30	16.35	16.40	16.45	16.50	16.55	16.61
2	2	44	16.66	16.71	16.76	16.81	16.86	16.91	16.96	17.01	17.06	17.11
2	2	54	17.16	17.21	17.25	17.30	17.35	17.40	17.45	17.49	17.54	17.59
2	2	64	17.64	17.68	17.73	17.78	17.82	17.87	17.92	17.96	18.01	18.06
2	2	74	18.10	18.15	18.19	18.24	18.28	18.33	18.37	18.42	18.46	18.50
2	2	84	18.55	18.59	18.63	18.68	18.72	18.76	18.81	18.85	18.89	18.93
2	2	94	18.98	19.02	19.06	19.10	19.14	19.19	19.23	19.27	19.31	19.35
2	2	104	19.39	19.43	19.47	19.51	19.55	19.59	19.63	19.67	19.71	19.75
2	2	114	19.79	19.83	19.87	19.91	19.95	19.98	20.02	20.06	20.10	20.14
2	2	124	20.17	20.21	20.25	20.29	20.32	20.36	20.40	20.44	20.47	20.51
2	2	134	20.55	20.58	20.62	20.65	20.69	20.73	20.76	20.80	20.83	20.87
2	2	144	20.90	20.94	20.97	21.01	21.04	21.08	21.11	21.14	21.18	21.21
2	2	154	21.25	21.28	21.31	21.35	21.38	21.41	21.44			
3	3	161	21.42	21.38	21.35	21.31	21.28	21.25	21.21	21.18	21.15	21.11
3	3	171	21.08	21.05	21.01	20.98	20.95	20.91	20.88	20.85	20.82	20.78
3	3	181	20.75	20.72	20.68	20.65	20.62	20.59	20.55	20.52	20.49	20.46
3	3	191	20.42	20.39	20.36	20.33	20.30	20.26	20.23	20.20	20.17	20.14
3	3	201	20.10	20.07	20.04	20.01	19.98	19.95	19.91	19.88	19.85	19.82
3	3	211	19.78	19.66								
4	4	213	17.83	17.79	17.75	17.71	17.67	17.63	17.59	17.56	17.52	17.48
4	4	223	17.44	17.40	17.36	17.32	17.29	17.25	17.21	17.17	17.13	17.09
4	4	233	17.06	17.02	16.98	16.94	16.91	16.87	16.83	16.79	16.76	16.72
4	4	243	16.68	16.65	16.61	16.57	16.54	16.50	16.46	16.43	16.39	16.36
5	5	253	16.33	16.28	16.22	16.16	16.10	16.05	15.99	15.93	15.88	15.82
5	5	263	15.77	15.71	15.65	15.60	15.54	15.49	15.44	15.38	15.33	15.27
5	5	273	15.22	15.17	15.11	15.06	15.01	14.95	14.90	14.85	14.80	14.74
5	5	283	14.69	14.64	14.59	14.54	14.49	14.44	14.39	14.34	14.29	14.24
5	5	293	14.19	14.14	14.09	14.04	13.99	13.94	13.89	13.85	13.80	13.75
5	5	303	13.70	13.65	13.61	13.56	13.51	13.47	13.42	13.37	13.33	13.28
5	5	313	13.23	13.19	13.14							
6	6	316	13.08	13.02	12.96	12.90	12.84	12.79	12.73	12.67	12.61	12.56
6	6	326	12.50	12.44	12.39	12.33	12.28	12.22	12.17	12.11	12.06	12.01
6	6	336	11.95	11.90	11.85	11.79	11.74	11.69	11.63	11.58	11.49	11.20
17	17	526	9.10	9.09	9.08	9.07	9.02	8.31				
7	7	346	2.95	2.54	2.19	1.89	1.63	1.40	1.21	1.04	0.90	0.78
7	7	356	0.67	0.58	0.50	0.43	0.37	0.32	0.28	0.24	0.21	0.18
7	7	366	0.15	0.13								
8	8	368	2.80	2.93	2.96	2.97	2.98	2.98	2.98	2.98	2.98	
9	9	377	3.60	4.05	4.38	4.63	4.82	4.98	5.10	5.19	5.27	5.34
9	9	387	5.39	5.43	5.47							
10	10	390	5.50	5.53	5.56	5.59	5.61	5.64	5.67	5.69	5.72	

11	11	399	5.74	5.75	5.76	5.78	5.79	5.81	5.82	5.83	5.85	5.86
11	11	409	5.87	5.89	5.90	5.91	5.92	5.94	5.95	5.96	5.97	
12	12	418	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20	6.22
12	12	428	6.25	6.27	6.36							
13	13	431	8.06	8.05								
14	14	433	8.03	8.02	8.01	7.99	7.98	7.96	7.95	7.93	7.92	7.90
14	14	443	7.89	7.88								
15	15	445	7.86	7.85	7.84	7.82	7.81	7.80	7.78	7.77	7.76	7.75
15	15	455	7.73	7.72	7.71	7.70	7.68	7.67	7.66	7.65	7.63	7.62
15	15	465	7.61	7.60	7.58	7.57	7.56	7.55	7.54	7.52	7.51	7.50
15	15	475	7.49	7.48	7.46	7.45	7.44	7.43	7.42	7.40	7.39	7.38
15	15	485	7.37	7.36	7.35	7.33	7.32	7.31	7.30	7.29	7.28	7.27
15	15	495	7.25	7.24	7.23	7.22	7.21	7.20	7.19	7.18	7.17	7.15
15	15	505	7.14	7.13	7.12	7.11	7.10	7.09	7.08	7.07	7.06	7.05
15	15	515	7.03	7.02	7.01							
16	16	518	7.00	6.99	6.98	6.97	6.96	6.95	6.94	6.98		

INTERMEDIATE REPORT

Biochemical Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.09	16.09	16.09	16.09	16.09	16.09	16.09
1	1	21	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.09	16.08
1	1	31	16.08	16.08	16.09							
2	2	34	16.14	16.19	16.24	16.30	16.35	16.40	16.45	16.50	16.55	16.61
2	2	44	16.66	16.71	16.76	16.81	16.86	16.91	16.96	17.01	17.06	17.11
2	2	54	17.16	17.21	17.25	17.30	17.35	17.40	17.45	17.49	17.54	17.59
2	2	64	17.64	17.68	17.73	17.78	17.82	17.87	17.92	17.96	18.01	18.06
2	2	74	18.10	18.15	18.19	18.24	18.28	18.33	18.37	18.42	18.46	18.50
2	2	84	18.55	18.59	18.63	18.68	18.72	18.76	18.81	18.85	18.89	18.93
2	2	94	18.98	19.02	19.06	19.10	19.14	19.19	19.23	19.27	19.31	19.35
2	2	104	19.39	19.43	19.47	19.51	19.55	19.59	19.63	19.67	19.71	19.75
2	2	114	19.79	19.83	19.87	19.91	19.95	19.98	20.02	20.06	20.10	20.14
2	2	124	20.17	20.21	20.25	20.29	20.32	20.36	20.40	20.44	20.47	20.51
2	2	134	20.55	20.58	20.62	20.65	20.69	20.73	20.76	20.80	20.83	20.87
2	2	144	20.90	20.94	20.97	21.01	21.04	21.08	21.11	21.14	21.18	21.21
2	2	154	21.25	21.28	21.31	21.35	21.38	21.41	21.44			
3	3	161	21.42	21.38	21.35	21.31	21.28	21.25	21.21	21.18	21.15	21.11
3	3	171	21.08	21.05	21.01	20.98	20.95	20.91	20.88	20.85	20.82	20.78
3	3	181	20.75	20.72	20.68	20.65	20.62	20.59	20.55	20.52	20.49	20.46
3	3	191	20.42	20.39	20.36	20.33	20.30	20.26	20.23	20.20	20.17	20.14
3	3	201	20.10	20.07	20.04	20.01	19.98	19.95	19.91	19.88	19.85	19.82
3	3	211	19.78	19.66								
4	4	213	17.83	17.79	17.75	17.71	17.67	17.63	17.59	17.56	17.52	17.48
4	4	223	17.44	17.40	17.36	17.32	17.29	17.25	17.21	17.17	17.13	17.09
4	4	233	17.06	17.02	16.98	16.94	16.91	16.87	16.83	16.79	16.76	16.72
4	4	243	16.68	16.65	16.61	16.57	16.54	16.50	16.46	16.43	16.39	16.36
5	5	253	16.33	16.28	16.22	16.16	16.10	16.05	15.99	15.93	15.88	15.82
5	5	263	15.77	15.71	15.65	15.60	15.54	15.49	15.44	15.38	15.33	15.27
5	5	273	15.22	15.17	15.11	15.06	15.01	14.95	14.90	14.85	14.80	14.74

5	5	283	14.69	14.64	14.59	14.54	14.49	14.44	14.39	14.34	14.29	14.24
5	5	293	14.19	14.14	14.09	14.04	13.99	13.94	13.89	13.85	13.80	13.75
5	5	303	13.70	13.65	13.61	13.56	13.51	13.47	13.42	13.37	13.33	13.28
5	5	313	13.23	13.19	13.14							
6	6	316	13.08	13.02	12.96	12.90	12.84	12.79	12.73	12.67	12.61	12.56
6	6	326	12.50	12.44	12.39	12.33	12.28	12.22	12.17	12.11	12.06	12.01
6	6	336	11.95	11.90	11.85	11.79	11.74	11.69	11.63	11.58	11.49	11.20
17	17	526	9.10	9.09	9.08	9.07	9.02	8.31				
7	7	346	2.95	2.54	2.19	1.89	1.63	1.40	1.21	1.04	0.90	0.78
7	7	356	0.67	0.58	0.50	0.43	0.37	0.32	0.28	0.24	0.21	0.18
7	7	366	0.15	0.13								
8	8	368	2.80	2.93	2.96	2.97	2.98	2.98	2.98	2.98	2.98	
9	9	377	3.60	4.05	4.38	4.63	4.82	4.98	5.10	5.19	5.27	5.34
9	9	387	5.39	5.43	5.47							
10	10	390	5.50	5.53	5.56	5.59	5.61	5.64	5.67	5.69	5.72	
11	11	399	5.74	5.75	5.76	5.78	5.79	5.81	5.82	5.83	5.85	5.86
11	11	409	5.87	5.89	5.90	5.91	5.92	5.94	5.95	5.96	5.97	
12	12	418	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20	6.22
12	12	428	6.25	6.27	6.36							
13	13	431	8.06	8.05								
14	14	433	8.03	8.02	8.01	7.99	7.98	7.96	7.95	7.93	7.92	7.90
14	14	443	7.89	7.88								
15	15	445	7.86	7.85	7.84	7.82	7.81	7.80	7.78	7.77	7.76	7.75
15	15	455	7.73	7.72	7.71	7.70	7.68	7.67	7.66	7.65	7.63	7.62
15	15	465	7.61	7.60	7.58	7.57	7.56	7.55	7.54	7.52	7.51	7.50
15	15	475	7.49	7.48	7.46	7.45	7.44	7.43	7.42	7.40	7.39	7.38
15	15	485	7.37	7.36	7.35	7.33	7.32	7.31	7.30	7.29	7.28	7.27
15	15	495	7.25	7.24	7.23	7.22	7.21	7.20	7.19	7.18	7.17	7.15
15	15	505	7.14	7.13	7.12	7.11	7.10	7.09	7.08	7.07	7.06	7.05
15	15	515	7.03	7.02	7.01							
16	16	518	7.00	6.99	6.98	6.97	6.96	6.95	6.94	6.98		

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.59	1.59
1	1	11	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
1	1	21	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58
1	1	31	1.58	1.58	1.58							
2	2	34	1.58	1.59	1.59	1.59	1.60	1.60	1.60	1.61	1.61	1.61
2	2	44	1.61	1.62	1.62	1.62	1.63	1.63	1.63	1.64	1.64	1.64
2	2	54	1.65	1.65	1.65	1.65	1.66	1.66	1.66	1.67	1.67	1.67
2	2	64	1.67	1.68	1.68	1.68	1.69	1.69	1.69	1.70	1.70	1.70
2	2	74	1.70	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.73	1.73
2	2	84	1.73	1.74	1.74	1.74	1.74	1.75	1.75	1.75	1.75	1.76
2	2	94	1.76	1.76	1.77	1.77	1.77	1.77	1.78	1.78	1.78	1.78
2	2	104	1.79	1.79	1.79	1.80	1.80	1.80	1.80	1.81	1.81	1.81
2	2	114	1.81	1.82	1.82	1.82	1.82	1.83	1.83	1.83	1.83	1.84
2	2	124	1.84	1.84	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86
2	2	134	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.89	1.89

2	2	144	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.91	1.91	1.91
2	2	154	1.91	1.92	1.92	1.92	1.92	1.93	1.93			
3	3	161	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92
3	3	171	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
3	3	181	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89
3	3	191	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88
3	3	201	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.87
3	3	211	1.87	1.87								
4	4	213	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.87
4	4	223	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86
4	4	233	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84
4	4	243	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83
5	5	253	1.83	1.82	1.82	1.82	1.82	1.81	1.81	1.81	1.81	1.80
5	5	263	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.78	1.78
5	5	273	1.78	1.78	1.77	1.77	1.77	1.77	1.76	1.76	1.76	1.76
5	5	283	1.76	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74	1.74
5	5	293	1.73	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.72	1.71
5	5	303	1.71	1.71	1.71	1.70	1.70	1.70	1.70	1.70	1.69	1.69
5	5	313	1.69	1.69	1.69							
6	6	316	1.68	1.68	1.68	1.67	1.67	1.67	1.66	1.66	1.66	1.65
6	6	326	1.65	1.65	1.65	1.64	1.64	1.64	1.63	1.63	1.63	1.62
6	6	336	1.62	1.62	1.62	1.61	1.61	1.61	1.60	1.60	1.61	1.66
17	17	526	2.12	2.12	2.12	2.12	2.10	1.89				
7	7	346	0.86	0.82	0.78	0.75	0.71	0.68	0.65	0.62	0.59	0.57
7	7	356	0.54	0.52	0.49	0.47	0.45	0.43	0.41	0.39	0.37	0.36
7	7	366	0.34	0.32								
8	8	368	0.74	0.77	0.78	0.79	0.79	0.79	0.79	0.79	0.79	
9	9	377	1.06	1.27	1.43	1.56	1.67	1.75	1.82	1.88	1.93	1.98
9	9	387	2.01	2.05	2.07							
10	10	390	2.06	2.04	2.03	2.01	2.00	1.98	1.97	1.95	1.94	
11	11	399	1.93	1.93	1.92	1.91	1.91	1.90	1.89	1.89	1.88	1.88
11	11	409	1.87	1.86	1.86	1.85	1.85	1.84	1.84	1.83	1.83	
12	12	418	1.82	1.81	1.80	1.80	1.79	1.78	1.78	1.77	1.76	1.76
12	12	428	1.75	1.75	1.78							
13	13	431	2.82	2.82								
14	14	433	2.82	2.82	2.81	2.81	2.81	2.81	2.81	2.80	2.80	2.80
14	14	443	2.80	2.79								
15	15	445	2.79	2.79	2.79	2.78	2.78	2.78	2.78	2.77	2.77	2.77
15	15	455	2.77	2.76	2.76	2.76	2.76	2.75	2.75	2.75	2.75	2.74
15	15	465	2.74	2.74	2.74	2.73	2.73	2.73	2.73	2.72	2.72	2.72
15	15	475	2.72	2.71	2.71	2.71	2.71	2.70	2.70	2.70	2.70	2.70
15	15	485	2.69	2.69	2.69	2.69	2.68	2.68	2.68	2.68	2.67	2.67
15	15	495	2.67	2.67	2.66	2.66	2.66	2.66	2.66	2.65	2.65	2.65
15	15	505	2.65	2.64	2.64	2.64	2.64	2.64	2.63	2.63	2.63	2.63
15	15	515	2.62	2.62	2.62							
16	16	518	2.62	2.61	2.61	2.61	2.61	2.61	2.60	2.59		

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Baseline Simulation for Lake Penchant and Bayou Penchant model

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

1	1	1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	21	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	31	0.10	0.10	0.10							
2	2	34	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	44	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	54	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	64	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	74	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	84	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	94	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	104	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	114	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	124	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
2	2	134	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2	2	144	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2	2	154	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
3	3	161	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	171	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	181	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	191	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	201	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	211	0.11	0.11								
4	4	213	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	223	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	233	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	243	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	253	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	263	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	273	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	283	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	293	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	303	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	313	0.11	0.11	0.11							
6	6	316	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	326	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	336	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
17	17	526	0.13	0.13	0.13	0.13	0.13	0.12				
7	7	346	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07
7	7	356	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04
7	7	366	0.04	0.04								
8	8	368	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
9	9	377	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.15	0.15	0.15
9	9	387	0.16	0.16	0.16							
10	10	390	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	
11	11	399	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
11	11	409	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
12	12	418	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	12	428	0.14	0.14	0.13							
13	13	431	0.09	0.10								

14	14	433	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
14	14	443	0.10	0.10								
15	15	445	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
15	15	455	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
15	15	465	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
15	15	475	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
15	15	485	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	495	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	505	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
15	15	515	0.14	0.14	0.14							
16	16	518	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.56	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53
1	1	11	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.50
1	1	21	0.50	0.50	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.47
1	1	31	0.47	0.47	0.47							
2	2	34	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43
2	2	44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40
2	2	54	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.38
2	2	64	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.35
2	2	74	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.32
2	2	84	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29
2	2	94	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26
2	2	104	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24
2	2	114	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21	0.21	0.21
2	2	124	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18
2	2	134	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
2	2	144	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13
2	2	154	0.13	0.13	0.12	0.12	0.12	0.12	0.11			
3	3	161	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07
3	3	171	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03
3	3	181	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.26	2.25	2.25	2.25	2.24	2.24	2.24	2.23	2.23	2.23
1	1	11	2.22	2.22	2.22	2.21	2.21	2.21	2.20	2.20	2.20	2.19
1	1	21	2.19	2.18	2.18	2.18	2.17	2.17	2.17	2.16	2.16	2.16
1	1	31	2.15	2.15	2.15							
2	2	34	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	44	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	54	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	64	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	74	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	84	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	94	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	104	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	114	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	124	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	134	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	144	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
2	2	154	2.15	2.15	2.15	2.15	2.15	2.15	2.15			
3	3	161	2.15	2.14	2.14	2.13	2.12	2.12	2.11	2.11	2.10	2.10
3	3	171	2.09	2.09	2.08	2.08	2.07	2.07	2.06	2.06	2.05	2.05
3	3	181	2.05	2.04	2.04	2.03	2.03	2.02	2.02	2.01	2.01	2.00

3	3	191	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99
3	3	201	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98
3	3	211	1.98	1.98								
4	4	213	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98
4	4	223	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96
4	4	233	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95
4	4	243	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94
5	5	253	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.91
5	5	263	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89
5	5	273	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.87	1.87	1.87
5	5	283	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.85
5	5	293	1.85	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83
5	5	303	1.82	1.82	1.82	1.82	1.82	1.81	1.81	1.81	1.81	1.81
5	5	313	1.80	1.80	1.80							
6	6	316	1.80	1.79	1.79	1.79	1.78	1.78	1.78	1.77	1.77	1.77
6	6	326	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.74	1.74	1.74
6	6	336	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.71	1.72	1.77
17	17	526	2.24	2.24	2.24	2.24	2.23	2.01				
7	7	346	0.96	0.92	0.88	0.84	0.80	0.76	0.73	0.70	0.67	0.64
7	7	356	0.61	0.58	0.55	0.53	0.50	0.48	0.46	0.44	0.42	0.40
7	7	366	0.38	0.37								
8	8	368	0.82	0.86	0.87	0.87	0.87	0.88	0.88	0.88	0.88	
9	9	377	1.16	1.37	1.54	1.68	1.80	1.89	1.96	2.03	2.08	2.13
9	9	387	2.17	2.21	2.24							
10	10	390	2.22	2.20	2.19	2.17	2.15	2.14	2.12	2.10	2.09	
11	11	399	2.08	2.08	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.02
11	11	409	2.02	2.01	2.00	2.00	1.99	1.99	1.98	1.97	1.97	
12	12	418	1.96	1.95	1.94	1.94	1.93	1.92	1.92	1.91	1.90	1.89
12	12	428	1.89	1.88	1.92							
13	13	431	2.92	2.92								
14	14	433	2.92	2.91	2.91	2.91	2.91	2.91	2.91	2.90	2.90	2.90
14	14	443	2.90	2.90								
15	15	445	2.90	2.89	2.89	2.89	2.89	2.89	2.88	2.88	2.88	2.88
15	15	455	2.88	2.88	2.87	2.87	2.87	2.87	2.87	2.86	2.86	2.86
15	15	465	2.86	2.86	2.85	2.85	2.85	2.85	2.85	2.84	2.84	2.84
15	15	475	2.84	2.84	2.83	2.83	2.83	2.83	2.83	2.82	2.82	2.82
15	15	485	2.82	2.82	2.81	2.81	2.81	2.81	2.81	2.80	2.80	2.80
15	15	495	2.80	2.80	2.80	2.79	2.79	2.79	2.79	2.79	2.78	2.78
15	15	505	2.78	2.78	2.78	2.77	2.77	2.77	2.77	2.77	2.76	2.76
15	15	515	2.76	2.76	2.76							
16	16	518	2.75	2.75	2.75	2.75	2.74	2.74	2.74	2.73		

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

µg/L — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	70.15	70.30	70.45	70.61	70.76	70.91	71.06	71.21	71.36	71.52
1	1	11	71.67	71.82	71.97	72.12	72.27	72.42	72.58	72.73	72.88	73.03
1	1	21	73.18	73.33	73.48	73.64	73.79	73.94	74.09	74.24	74.39	74.55
1	1	31	74.70	74.85	75.00							
2	2	34	75.04	75.08	75.12	75.16	75.20	75.24	75.28	75.31	75.35	75.39

2	2	44	75.43	75.47	75.51	75.55	75.59	75.63	75.67	75.71	75.75	75.79
2	2	54	75.83	75.87	75.91	75.94	75.98	76.02	76.06	76.10	76.14	76.18
2	2	64	76.22	76.26	76.30	76.34	76.38	76.42	76.46	76.50	76.54	76.57
2	2	74	76.61	76.65	76.69	76.73	76.77	76.81	76.85	76.89	76.93	76.97
2	2	84	77.01	77.05	77.09	77.13	77.17	77.20	77.24	77.28	77.32	77.36
2	2	94	77.40	77.44	77.48	77.52	77.56	77.60	77.64	77.68	77.72	77.76
2	2	104	77.80	77.83	77.87	77.91	77.95	77.99	78.03	78.07	78.11	78.15
2	2	114	78.19	78.23	78.27	78.31	78.35	78.39	78.43	78.46	78.50	78.54
2	2	124	78.58	78.62	78.66	78.70	78.74	78.78	78.82	78.86	78.90	78.94
2	2	134	78.98	79.02	79.06	79.09	79.13	79.17	79.21	79.25	79.29	79.33
2	2	144	79.37	79.41	79.45	79.49	79.53	79.57	79.61	79.65	79.69	79.72
2	2	154	79.76	79.80	79.84	79.88	79.92	79.96	80.00			
3	3	161	79.62	79.23	78.85	78.46	78.08	77.69	77.31	76.92	76.54	76.15
3	3	171	75.77	75.38	75.00	74.62	74.23	73.85	73.46	73.08	72.69	72.31
3	3	181	71.92	71.54	71.15	70.77	70.38	70.00	69.62	69.23	68.85	68.46
3	3	191	68.08	67.69	67.31	66.92	66.54	66.15	65.77	65.38	65.00	64.62
3	3	201	64.23	63.85	63.46	63.08	62.69	62.31	61.92	61.54	61.15	60.77
3	3	211	60.38	60.00								
4	4	213	59.50	59.00	58.50	58.00	57.50	57.00	56.50	56.00	55.50	55.00
4	4	223	54.50	54.00	53.50	53.00	52.50	52.00	51.50	51.00	50.50	50.00
4	4	233	49.50	49.00	48.50	48.00	47.50	47.00	46.50	46.00	45.50	45.00
4	4	243	44.50	44.00	43.50	43.00	42.50	42.00	41.50	41.00	40.50	40.00
5	5	253	39.75	39.49	39.24	38.98	38.73	38.48	38.22	37.97	37.71	37.46
5	5	263	37.21	36.95	36.70	36.44	36.19	35.94	35.68	35.43	35.17	34.92
5	5	273	34.67	34.41	34.16	33.90	33.65	33.40	33.14	32.89	32.63	32.38
5	5	283	32.13	31.87	31.62	31.37	31.11	30.86	30.60	30.35	30.10	29.84
5	5	293	29.59	29.33	29.08	28.83	28.57	28.32	28.06	27.81	27.56	27.30
5	5	303	27.05	26.79	26.54	26.29	26.03	25.78	25.52	25.27	25.02	24.76
5	5	313	24.51	24.25	24.00							
6	6	316	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	326	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	336	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
17	17	526	24.00	24.00	24.00	24.00	24.00	24.00				
7	7	346	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	356	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	366	10.00	10.00								
8	8	368	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
9	9	377	11.15	12.31	13.46	14.62	15.77	16.92	18.08	19.23	20.38	21.54
9	9	387	22.69	23.85	25.00							
10	10	390	26.44	27.89	29.33	30.78	32.22	33.67	35.11	36.56	38.00	
11	11	399	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
11	11	409	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	
12	12	418	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
12	12	428	38.00	38.00	38.00							
13	13	431	38.00	38.00								
14	14	433	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
14	14	443	38.00	38.00								
15	15	445	37.89	37.78	37.67	37.56	37.45	37.34	37.23	37.12	37.01	36.90
15	15	455	36.79	36.68	36.58	36.47	36.36	36.25	36.14	36.03	35.92	35.81
15	15	465	35.70	35.59	35.48	35.37	35.26	35.15	35.04	34.93	34.82	34.71

15	15	475	34.60	34.49	34.38	34.27	34.16	34.05	33.95	33.84	33.73	33.62
15	15	485	33.51	33.40	33.29	33.18	33.07	32.96	32.85	32.74	32.63	32.52
15	15	495	32.41	32.30	32.19	32.08	31.97	31.86	31.75	31.64	31.53	31.42
15	15	505	31.32	31.21	31.10	30.99	30.88	30.77	30.66	30.55	30.44	30.33
15	15	515	30.22	30.11	30.00							
16	16	518	29.25	28.50	27.75	27.00	26.25	25.50	24.75	24.00		

INTERMEDIATE REPORT

Temperature LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

deg C Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.22	31.24	31.25	31.27	31.29	31.31	31.33	31.35	31.36	31.38
1	1	11	31.40	31.42	31.44	31.45	31.47	31.49	31.51	31.53	31.55	31.56
1	1	21	31.58	31.60	31.62	31.64	31.65	31.67	31.69	31.71	31.73	31.75
1	1	31	31.76	31.78	31.80							
2	2	34	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	44	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	54	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	64	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	74	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	84	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	94	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	104	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	114	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	124	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	134	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	144	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	154	31.80	31.80	31.80	31.80	31.80	31.80	31.80			
3	3	161	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	171	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	181	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	191	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	201	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	211	31.80	31.80								
4	4	213	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	223	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	233	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	243	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	253	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	263	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	273	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	283	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	293	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	303	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	313	31.80	31.80	31.80							
6	6	316	31.82	31.83	31.85	31.87	31.88	31.90	31.92	31.93	31.95	31.97
6	6	326	31.98	32.00	32.02	32.03	32.05	32.07	32.08	32.10	32.12	32.13
6	6	336	32.15	32.17	32.18	32.20	32.22	32.23	32.25	32.27	32.28	32.30
17	17	526	32.28	32.27	32.25	32.23	32.22	32.20				
7	7	346	31.48	31.45	31.43	31.41	31.39	31.36	31.34	31.32	31.30	31.27
7	7	356	31.25	31.23	31.20	31.18	31.16	31.14	31.11	31.09	31.07	31.05

7	7	366	31.02	31.00								
8	8	368	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	
9	9	377	31.04	31.08	31.12	31.15	31.19	31.23	31.27	31.31	31.35	31.38
9	9	387	31.42	31.46	31.50							
10	10	390	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
11	11	399	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
11	11	409	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
12	12	418	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
12	12	428	31.50	31.50	31.50							
13	13	431	31.50	31.50								
14	14	433	31.57	31.63	31.70	31.77	31.83	31.90	31.97	32.03	32.10	32.17
14	14	443	32.23	32.30								
15	15	445	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	455	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	465	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	475	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	485	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	495	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	505	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	515	32.30	32.30	32.30							
16	16	518	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30		

INTERMEDIATE REPORT

Salinity — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

ppt — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

km Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	35.	35.	35.	35.	35.	35.	34.	34.	34.	34.
1	1	11	34.	34.	34.	34.	34.	34.	33.	33.	33.	33.
1	1	21	33.	33.	33.	33.	33.	33.	32.	32.	32.	32.
1	1	31	32.	32.	32.							
2	2	34	32.	32.	31.	31.	31.	31.	31.	31.	31.	31.
2	2	44	31.	31.	30.	30.	30.	30.	30.	30.	30.	30.
2	2	54	30.	30.	29.	29.	29.	29.	29.	29.	29.	29.
2	2	64	29.	29.	28.	28.	28.	28.	28.	28.	28.	28.
2	2	74	28.	28.	27.	27.	27.	27.	27.	27.	27.	27.
2	2	84	27.	27.	26.	26.	26.	26.	26.	26.	26.	26.

2	2	94	26.	26.	25.	25.	25.	25.	25.	25.	25.	25.
2	2	104	25.	25.	24.	24.	24.	24.	24.	24.	24.	24.
2	2	114	24.	24.	23.	23.	23.	23.	23.	23.	23.	23.
2	2	124	23.	23.	22.	22.	22.	22.	22.	22.	22.	22.
2	2	134	22.	22.	21.	21.	21.	21.	21.	21.	21.	21.
2	2	144	21.	21.	20.	20.	20.	20.	20.	20.	20.	20.
2	2	154	20.	20.	19.	19.	19.	19.	19.			
3	3	161	19.	19.	19.	19.	19.	18.	18.	18.	18.	18.
3	3	171	18.	18.	18.	18.	18.	17.	17.	17.	17.	17.
3	3	181	17.	17.	17.	17.	17.	16.	16.	16.	16.	16.
3	3	191	16.	16.	16.	16.	16.	15.	15.	15.	15.	15.
3	3	201	15.	15.	15.	15.	15.	14.	14.	14.	14.	14.
3	3	211	14.	14.								
4	4	213	14.	14.	14.	13.	13.	13.	13.	13.	13.	13.
4	4	223	13.	13.	13.	12.	12.	12.	12.	12.	12.	12.
4	4	233	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
4	4	243	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
5	5	253	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.
5	5	263	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.
5	5	273	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
5	5	283	7.	7.	7.	6.	6.	6.	6.	6.	6.	6.
5	5	293	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.
5	5	303	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.
5	5	313	4.	4.	4.							
6	6	316	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
6	6	326	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.
6	6	336	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
17	17	526	0.	0.	0.	0.	0.	0.				
7	7	346	18.	18.	18.	18.	17.	17.	17.	17.	17.	17.
7	7	356	17.	17.	17.	17.	16.	16.	16.	16.	16.	16.
7	7	366	16.	16.								
8	8	368	16.	16.	15.	15.	15.	15.	15.	15.	15.	
9	9	377	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
9	9	387	14.	14.	14.							
10	10	390	14.	13.	13.	13.	13.	13.	13.	13.	13.	
11	11	399	13.	12.	12.	12.	12.	12.	12.	12.	12.	12.
11	11	409	12.	11.	11.	11.	11.	11.	11.	11.	11.	
12	12	418	11.	11.	10.	10.	10.	10.	10.	10.	10.	10.
12	12	428	10.	10.	9.							
13	13	431	9.	9.								
14	14	433	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.
14	14	443	8.	8.								
15	15	445	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.
15	15	455	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.
15	15	465	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.
15	15	475	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.
15	15	485	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.
15	15	495	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.
15	15	505	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.
15	15	515	1.	1.	1.							

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INTERMEDIATE REPORT

Flow LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m³/s Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	17.4	17.4	17.4	17.4	17.4	17.4	17.3	17.3	17.3	17.3
1	1	11	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
1	1	21	17.3	17.3	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
1	1	31	17.2	17.2	17.2							
2	2	34	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2	2	44	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2	2	54	17.2	17.2	17.2	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	64	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	74	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	84	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	94	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	104	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2	2	114	17.1	17.1	17.1	17.1	17.1	17.1	17.0	17.0	17.0	17.0
2	2	124	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2	2	134	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2	2	144	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2	2	154	17.0	17.0	17.0	17.0	17.0	17.0	17.0			
3	3	161	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
3	3	171	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
3	3	181	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
3	3	191	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
3	3	201	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
3	3	211	13.0	13.0								
4	4	213	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
4	4	223	14.7	14.7	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.6
4	4	233	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
4	4	243	14.6	14.6	14.6	14.6	14.6	14.5	14.5	14.5	14.5	14.5
5	5	253	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	263	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	273	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
5	5	283	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
5	5	293	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
5	5	303	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
5	5	313	5.1	5.1	5.1							
6	6	316	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
6	6	326	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6	6	336	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.9	4.9
17	17	526	10.3	10.3	10.3	10.3	10.3	10.3				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.2	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	
9	9	377	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	3.0	3.1
9	9	387	3.3	3.4	3.6							
10	10	390	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

11	11	399	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
11	11	409	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
12	12	418	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
12	12	428	3.6	3.6	3.6							
13	13	431	6.8	6.8								
14	14	433	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
14	14	443	5.1	5.1								
15	15	445	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.2	5.2
15	15	455	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
15	15	465	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
15	15	475	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
15	15	485	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3
15	15	495	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
15	15	505	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
15	15	515	5.3	5.3	5.3							
16	16	518	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.4		

INTERMEDIATE REPORT

Dispersion LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m²/s Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	11	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1	1	21	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1	1	31	0.6	0.6	0.6							
2	2	34	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	44	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	54	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	64	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	74	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	84	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	94	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	104	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	114	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	124	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	134	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	144	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	154	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
3	3	161	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	171	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	181	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	191	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	201	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	211	0.4	0.4								
4	4	213	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4	4	223	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4	4	233	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4	4	243	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	253	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	263	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	273	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

5	5	283	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	293	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	303	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	313	0.3	0.3	0.3							
6	6	316	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	326	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	336	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	17	526	0.5	0.5	0.5	0.5	0.5	0.5				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11	11	409	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
12	12	418	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	12	428	0.2	0.2	0.2							
13	13	431	0.1	0.1								
14	14	433	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14	14	443	0.1	0.1								
15	15	445	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	455	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	485	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	495	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	505	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	515	0.1	0.1	0.1							
16	16	518	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		

INTERMEDIATE REPORT

Advective Velocity m/s — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
1	1	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
1	1	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
1	1	31	0.1	0.1	0.1							
2	2	34	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	44	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	54	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	64	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	74	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	84	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	94	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	104	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	114	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	124	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	134	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

2	2	144	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	2	154	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
3	3	161	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	171	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	181	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	191	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	201	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	211	0.1	0.1								
4	4	213	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	223	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	233	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	243	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5	5	253	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	263	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	273	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	283	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	293	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	313	0.0	0.0	0.0							
6	6	316	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	17	526	0.1	0.1	0.1	0.1	0.1	0.1				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	11	409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	12	418	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	12	428	0.0	0.0	0.0							
13	13	431	0.1	0.1								
14	14	433	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14	14	443	0.1	0.1								
15	15	445	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	455	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	485	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	495	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	505	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	515	0.1	0.1	0.1							
16	16	518	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		

INTERMEDIATE REPORT

Depth LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Baseline Simulation for Lake Penchant and Bayou Penchant model

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

1	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	31	1.0	1.0	1.0							
2	2	34	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	44	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	54	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	64	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	74	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	84	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	94	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	104	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	114	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	124	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	134	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	144	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	154	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
3	3	161	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	171	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	181	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	191	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	201	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	211	1.8	1.8								
4	4	213	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	223	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	233	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	243	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	253	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	263	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	273	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	283	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	293	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	303	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	313	1.8	1.8	1.8							
6	6	316	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	326	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	336	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
17	17	526	1.4	1.4	1.4	1.4	1.4	1.4				
7	7	346	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	356	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	366	1.8	1.8								
8	8	368	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
9	9	377	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
9	9	387	1.8	1.8	1.8							
10	10	390	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
11	11	399	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
11	11	409	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
12	12	418	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
12	12	428	1.4	1.4	1.4							
13	13	431	1.4	1.4								

14	14	433	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
14	14	443	1.4	1.4								
15	15	445	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	455	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	465	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	475	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	485	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	495	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	505	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	515	1.4	1.4	1.4							
16	16	518	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		

INTERMEDIATE REPORT

Width LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	171	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	181	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	191	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	201	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	211	90.0	90.0								
4	4	213	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	223	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	233	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	243	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
5	5	253	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	263	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	273	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	283	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	293	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	303	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	313	90.0	90.0	90.0							
6	6	316	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0

6	6	326	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
6	6	336	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
17	17	526	88.0	88.0	88.0	88.0	88.0	88.0				
7	7	346	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	356	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	366	35.0	35.0								
8	8	368	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	
9	9	377	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
9	9	387	983.0	983.0	983.0							
10	10	390	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	
11	11	399	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
11	11	409	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
12	12	418	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
12	12	428	72.0	72.0	72.0							
13	13	431	72.0	72.0								
14	14	433	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
14	14	443	70.0	70.0								
15	15	445	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	455	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	465	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	475	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	485	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	495	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	505	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	515	65.0	65.0	65.0							
16	16	518	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0		

INTERMEDIATE REPORT

Cross-Sectional Area LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m^2 Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	171	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	181	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1

3	3	191	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	201	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	211	159.1	159.1								
4	4	213	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	223	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	233	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	243	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
5	5	253	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	263	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	273	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	283	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	293	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	303	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	313	159.1	159.1	159.1							
6	6	316	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	326	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	336	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
17	17	526	123.4	123.4	123.4	123.4	123.4	123.4				
7	7	346	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	356	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	366	61.9	61.9								
8	8	368	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	
9	9	377	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
9	9	387	1737.9	1737.9	1737.9							
10	10	390	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	
11	11	399	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
11	11	409	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	
12	12	418	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
12	12	428	100.9	100.9	100.9							
13	13	431	100.9	100.9								
14	14	433	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
14	14	443	98.1	98.1								
15	15	445	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	455	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	465	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	475	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	485	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	495	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	505	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	515	91.1	91.1	91.1							
16	16	518	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1		

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.733	1.733	1.733	1.734	1.734	1.734	1.734	1.735	1.735	1.735
1	1	11	1.735	1.735	1.736	1.736	1.736	1.736	1.737	1.737	1.737	1.737
1	1	21	1.738	1.738	1.738	1.738	1.738	1.739	1.739	1.739	1.739	1.740
1	1	31	1.740	1.740	1.740							
2	2	34	1.928	1.928	1.928	1.928	1.928	1.927	1.927	1.927	1.927	1.927

2	2	44	1.927	1.927	1.927	1.927	1.927	1.927	1.926	1.926	1.926	1.926
2	2	54	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.925	1.925	1.925
2	2	64	1.925	1.925	1.925	1.925	1.925	1.925	1.925	1.925	1.925	1.924
2	2	74	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924
2	2	84	1.923	1.923	1.923	1.923	1.923	1.923	1.923	1.923	1.923	1.923
2	2	94	1.923	1.922	1.922	1.922	1.922	1.922	1.922	1.922	1.922	1.922
2	2	104	1.922	1.922	1.922	1.921	1.921	1.921	1.921	1.921	1.921	1.921
2	2	114	1.921	1.921	1.921	1.921	1.920	1.920	1.920	1.920	1.920	1.920
2	2	124	1.920	1.920	1.920	1.920	1.920	1.919	1.919	1.919	1.919	1.919
2	2	134	1.919	1.919	1.919	1.919	1.919	1.919	1.918	1.918	1.918	1.918
2	2	144	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.917	1.917
2	2	154	1.917	1.917	1.917	1.917	1.917	1.917	1.917			
3	3	161	0.598	0.598	0.598	0.598	0.598	0.598	0.598	0.598	0.597	0.597
3	3	171	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597
3	3	181	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596
3	3	191	0.596	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
3	3	201	0.595	0.595	0.595	0.594	0.594	0.594	0.594	0.594	0.594	0.594
3	3	211	0.594	0.594								
4	4	213	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
4	4	223	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
4	4	233	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
4	4	243	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	253	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	263	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	273	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	283	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	293	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	303	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	313	0.491	0.491	0.491							
6	6	316	0.491	0.491	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.493
6	6	326	0.493	0.493	0.493	0.493	0.493	0.493	0.494	0.494	0.494	0.494
6	6	336	0.494	0.494	0.494	0.494	0.495	0.495	0.495	0.495	0.495	0.495
17	17	526	0.855	0.855	0.854	0.854	0.854	0.854				
7	7	346	0.488	0.488	0.488	0.488	0.488	0.488	0.487	0.487	0.487	0.487
7	7	356	0.487	0.486	0.486	0.486	0.486	0.486	0.485	0.485	0.485	0.485
7	7	366	0.485	0.485								
8	8	368	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	
9	9	377	0.644	0.645	0.645	0.645	0.646	0.646	0.647	0.647	0.648	0.648
9	9	387	0.648	0.649	0.649							
10	10	390	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
11	11	399	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489
11	11	409	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
12	12	418	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
12	12	428	0.616	0.616	0.616							
13	13	431	0.761	0.761								
14	14	433	0.667	0.668	0.669	0.670	0.671	0.672	0.673	0.674	0.675	0.675
14	14	443	0.676	0.677								
15	15	445	0.703	0.703	0.703	0.704	0.704	0.704	0.704	0.704	0.705	0.705
15	15	455	0.705	0.705	0.705	0.706	0.706	0.706	0.706	0.706	0.706	0.707
15	15	465	0.707	0.707	0.707	0.707	0.708	0.708	0.708	0.708	0.708	0.709

15	15	475	0.709	0.709	0.709	0.709	0.710	0.710	0.710	0.710	0.710	0.710
15	15	485	0.711	0.711	0.711	0.711	0.711	0.712	0.712	0.712	0.712	0.712
15	15	495	0.713	0.713	0.713	0.713	0.713	0.713	0.714	0.714	0.714	0.714
15	15	505	0.714	0.715	0.715	0.715	0.715	0.715	0.716	0.716	0.716	0.716
15	15	515	0.716	0.716	0.717							
16	16	518	0.717	0.717	0.717	0.718	0.718	0.718	0.718	0.718		

INTERMEDIATE REPORT

BOD Decay Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	11	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	21	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21
1	1	31	0.21	0.21	0.21							
2	2	34	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	44	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	54	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	64	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	74	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	84	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	94	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	104	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	114	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	124	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	134	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	144	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	154	0.21	0.21	0.21	0.21	0.21	0.21	0.21			
3	3	161	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	171	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	181	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	191	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	201	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	211	0.09	0.09								
4	4	213	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	223	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	233	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	243	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	253	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	263	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	273	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	283	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	293	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	303	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	313	0.09	0.09	0.09							
6	6	316	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	326	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	336	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
17	17	526	0.09	0.09	0.09	0.09	0.09	0.09				
7	7	346	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
7	7	356	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

7	7	366	0.08	0.08								
8	8	368	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
9	9	377	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
9	9	387	0.08	0.08	0.08							
10	10	390	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
11	11	399	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11	11	409	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
12	12	418	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
12	12	428	0.08	0.08	0.08							
13	13	431	0.08	0.08								
14	14	433	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
14	14	443	0.09	0.09								
15	15	445	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	455	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	465	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	475	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	485	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	495	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	505	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	515	0.09	0.09	0.09							
16	16	518	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		

INTERMEDIATE REPORT

BOD Settling Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Ammonia Decay Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
1	1	11	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
1	1	21	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
1	1	31	0.36	0.37	0.37							
2	2	34	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	44	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	54	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	64	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	74	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	84	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

2	2	94	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	104	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	114	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	124	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	134	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	144	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
2	2	154	0.36	0.36	0.36	0.36	0.36	0.36	0.36			
3	3	161	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37
3	3	171	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	181	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	191	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
3	3	201	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
3	3	211	0.38	0.38								
4	4	213	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	223	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	233	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	243	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	253	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	263	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	273	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	283	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	293	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	303	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	313	0.37	0.37	0.37							
6	6	316	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
6	6	326	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38
6	6	336	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
17	17	526	0.38	0.38	0.38	0.38	0.38	0.38				
7	7	346	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
7	7	356	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
7	7	366	0.22	0.22								
8	8	368	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
9	9	377	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24
9	9	387	0.24	0.24	0.24							
10	10	390	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	
11	11	399	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
11	11	409	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
12	12	418	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
12	12	428	0.35	0.35	0.35							
13	13	431	0.35	0.35								
14	14	433	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37
14	14	443	0.37	0.38								
15	15	445	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	455	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	465	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	475	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	485	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	495	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	505	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	515	0.38	0.38	0.38							

16 16 518 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38

INTERMEDIATE REPORT

Sediment Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

g/m²/d Baseline Simulation for Lake Penchant and Bayou Penchant model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	5.07	5.07	5.08	5.08	5.09	5.10	5.10	5.11	5.11	5.12
1	1	11	5.13	5.13	5.14	5.14	5.15	5.15	5.16	5.17	5.17	5.18
1	1	21	5.18	5.19	5.20	5.20	5.21	5.21	5.22	5.23	5.23	5.24
1	1	31	5.24	5.25	5.26							
2	2	34	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	44	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	54	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	64	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	74	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	84	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	94	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	104	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	114	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	124	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	134	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	144	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	154	5.68	5.68	5.68	5.68	5.68	5.68	5.68			
3	3	161	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	171	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	181	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	191	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	201	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	211	3.15	3.15								
4	4	213	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	223	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	233	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	243	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	253	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	263	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	273	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	283	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	293	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	303	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	313	3.15	3.15	3.15							
6	6	316	3.16	3.16	3.16	3.17	3.17	3.17	3.18	3.18	3.18	3.19
6	6	326	3.19	3.19	3.20	3.20	3.20	3.21	3.21	3.21	3.22	3.22
6	6	336	3.22	3.23	3.23	3.23	3.24	3.24	3.24	3.25	3.25	3.25
17	17	526	3.25	3.25	3.24	3.24	3.24	3.23				
7	7	346	3.09	3.09	3.08	3.08	3.07	3.07	3.06	3.06	3.06	3.05
7	7	356	3.05	3.04	3.04	3.03	3.03	3.02	3.02	3.02	3.01	3.01
7	7	366	3.00	3.00								
8	8	368	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
9	9	377	3.01	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07
9	9	387	3.08	3.09	3.09							
10	10	390	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	

11	11	399	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
11	11	409	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
12	12	418	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
12	12	428	5.78	5.78	5.78							
13	13	431	3.09	3.09								
14	14	433	3.11	3.12	3.13	3.15	3.16	3.17	3.19	3.20	3.21	3.23
14	14	443	3.24	3.25								
15	15	445	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	455	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	465	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	475	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	485	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	495	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	505	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	515	3.25	3.25	3.25							
16	16	518	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25		

CONDENSED CAPSULE SUMMARY FOR Bayou Chene

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	NH3 CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	17.38664	30.00	0.00	6.20	16.08	0.00	1.60	0.10	70.00							
35.00	17.38058	31.22	0.00	6.19	16.08	0.00	1.60	0.10	70.15	1.73	0.20	0.00	0.00	0.00	0.35	5.07
34.90	17.37452	31.24	0.00	6.19	16.08	0.00	1.60	0.10	70.30	1.73	0.20	0.00	0.00	0.00	0.35	5.07
34.80	17.36846	31.25	0.00	6.18	16.08	0.00	1.60	0.10	70.45	1.73	0.20	0.00	0.00	0.00	0.35	5.08
34.70	17.36240	31.27	0.00	6.18	16.08	0.00	1.60	0.10	70.61	1.73	0.20	0.00	0.00	0.00	0.35	5.08
34.60	17.35634	31.29	0.00	6.17	16.08	0.00	1.60	0.10	70.76	1.73	0.20	0.00	0.00	0.00	0.35	5.09
34.50	17.35028	31.31	0.00	6.17	16.08	0.00	1.60	0.10	70.91	1.73	0.20	0.00	0.00	0.00	0.35	5.10
34.40	17.34422	31.33	0.00	6.16	16.08	0.00	1.60	0.10	71.06	1.73	0.20	0.00	0.00	0.00	0.35	5.10
34.30	17.33816	31.35	0.00	6.16	16.08	0.00	1.60	0.10	71.21	1.73	0.20	0.00	0.00	0.00	0.35	5.11
34.20	17.33210	31.36	0.00	6.16	16.08	0.00	1.59	0.10	71.36	1.73	0.20	0.00	0.00	0.00	0.35	5.11
34.10	17.32604	31.38	0.00	6.15	16.08	0.00	1.59	0.10	71.52	1.74	0.20	0.00	0.00	0.00	0.35	5.12
34.00	17.31998	31.40	0.00	6.15	16.08	0.00	1.59	0.10	71.67	1.74	0.20	0.00	0.00	0.00	0.35	5.13
33.90	17.31392	31.42	0.00	6.14	16.08	0.00	1.59	0.10	71.82	1.74	0.20	0.00	0.00	0.00	0.36	5.13
33.80	17.30787	31.44	0.00	6.14	16.08	0.00	1.59	0.10	71.97	1.74	0.20	0.00	0.00	0.00	0.36	5.14
33.70	17.30181	31.45	0.00	6.14	16.09	0.00	1.59	0.10	72.12	1.74	0.20	0.00	0.00	0.00	0.36	5.14
33.60	17.29575	31.47	0.00	6.13	16.09	0.00	1.59	0.10	72.27	1.74	0.20	0.00	0.00	0.00	0.36	5.15
33.50	17.28969	31.49	0.00	6.13	16.09	0.00	1.59	0.10	72.42	1.74	0.20	0.00	0.00	0.00	0.36	5.15
33.40	17.28363	31.51	0.00	6.12	16.09	0.00	1.59	0.10	72.58	1.74	0.20	0.00	0.00	0.00	0.36	5.16
33.30	17.27757	31.53	0.00	6.12	16.09	0.00	1.59	0.10	72.73	1.74	0.20	0.00	0.00	0.00	0.36	5.17
33.20	17.27151	31.55	0.00	6.12	16.09	0.00	1.59	0.10	72.88	1.74	0.20	0.00	0.00	0.00	0.36	5.17
33.10	17.26545	31.56	0.00	6.11	16.09	0.00	1.59	0.10	73.03	1.74	0.20	0.00	0.00	0.00	0.36	5.18
33.00	17.25939	31.58	0.00	6.11	16.09	0.00	1.59	0.10	73.18	1.74	0.20	0.00	0.00	0.00	0.36	5.18
32.90	17.25333	31.60	0.00	6.11	16.09	0.00	1.59	0.10	73.33	1.74	0.20	0.00	0.00	0.00	0.36	5.19
32.80	17.24727	31.62	0.00	6.11	16.09	0.00	1.59	0.10	73.48	1.74	0.20	0.00	0.00	0.00	0.36	5.20
32.70	17.24121	31.64	0.00	6.10	16.09	0.00	1.59	0.10	73.64	1.74	0.20	0.00	0.00	0.00	0.36	5.20
32.60	17.23515	31.65	0.00	6.10	16.09	0.00	1.58	0.10	73.79	1.74	0.20	0.00	0.00	0.00	0.36	5.21
32.50	17.22909	31.67	0.00	6.10	16.09	0.00	1.58	0.10	73.94	1.74	0.21	0.00	0.00	0.00	0.36	5.21
32.40	17.22303	31.69	0.00	6.10	16.09	0.00	1.58	0.10	74.09	1.74	0.21	0.00	0.00	0.00	0.36	5.22
32.30	17.21697	31.71	0.00	6.09	16.09	0.00	1.58	0.10	74.24	1.74	0.21	0.00	0.00	0.00	0.36	5.23
32.20	17.21091	31.73	0.00	6.09	16.09	0.00	1.58	0.10	74.39	1.74	0.21	0.00	0.00	0.00	0.36	5.23

32.10	17.20485	31.75	0.00	6.09	16.08	0.00	1.58	0.10	74.55	1.74	0.21	0.00	0.00	0.00	0.36	5.24
32.00	17.19879	31.76	0.00	6.09	16.08	0.00	1.58	0.10	74.70	1.74	0.21	0.00	0.00	0.00	0.36	5.24
31.90	17.19273	31.78	0.00	6.08	16.08	0.00	1.58	0.10	74.85	1.74	0.21	0.00	0.00	0.00	0.37	5.25
31.80	17.18667	31.80	0.00	6.08	16.09	0.00	1.58	0.10	75.00	1.74	0.21	0.00	0.00	0.00	0.37	5.26
31.70	17.18510	31.80	0.00	6.08	16.14	0.00	1.58	0.10	75.04	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.60	17.18352	31.80	0.00	6.07	16.19	0.00	1.59	0.10	75.08	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.50	17.18195	31.80	0.00	6.07	16.24	0.00	1.59	0.10	75.12	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.40	17.18037	31.80	0.00	6.06	16.30	0.00	1.59	0.10	75.16	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.30	17.17879	31.80	0.00	6.06	16.35	0.00	1.60	0.10	75.20	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.20	17.17722	31.80	0.00	6.05	16.40	0.00	1.60	0.10	75.24	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.10	17.17564	31.80	0.00	6.05	16.45	0.00	1.60	0.10	75.28	1.93	0.21	0.00	0.00	0.00	0.37	5.68
31.00	17.17407	31.80	0.00	6.04	16.50	0.00	1.61	0.10	75.31	1.93	0.21	0.00	0.00	0.00	0.37	5.68
30.90	17.17249	31.80	0.00	6.04	16.55	0.00	1.61	0.10	75.35	1.93	0.21	0.00	0.00	0.00	0.37	5.68
30.80	17.17092	31.80	0.00	6.04	16.61	0.00	1.61	0.10	75.39	1.93	0.21	0.00	0.00	0.00	0.37	5.68
30.70	17.16934	31.80	0.00	6.03	16.66	0.00	1.61	0.10	75.43	1.93	0.21	0.00	0.00	0.00	0.37	5.68
30.60	17.16777	31.80	0.00	6.03	16.71	0.00	1.62	0.10	75.47	1.93	0.21	0.00	0.00	0.00	0.37	5.68
30.50	17.16619	31.80	0.00	6.02	16.76	0.00	1.62	0.10	75.51	1.93	0.21	0.00	0.00	0.00	0.36	5.68
30.40	17.16462	31.80	0.00	6.02	16.81	0.00	1.62	0.10	75.55	1.93	0.21	0.00	0.00	0.00	0.36	5.68
30.30	17.16304	31.80	0.00	6.01	16.86	0.00	1.63	0.10	75.59	1.93	0.21	0.00	0.00	0.00	0.36	5.68
30.20	17.16146	31.80	0.00	6.01	16.91	0.00	1.63	0.10	75.63	1.93	0.21	0.00	0.00	0.00	0.36	5.68
30.10	17.15989	31.80	0.00	6.00	16.96	0.00	1.63	0.10	75.67	1.93	0.21	0.00	0.00	0.00	0.36	5.68
30.00	17.15831	31.80	0.00	6.00	17.01	0.00	1.64	0.10	75.71	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.90	17.15674	31.80	0.00	6.00	17.06	0.00	1.64	0.10	75.75	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.80	17.15516	31.80	0.00	5.99	17.11	0.00	1.64	0.10	75.79	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.70	17.15359	31.80	0.00	5.99	17.16	0.00	1.65	0.10	75.83	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.60	17.15201	31.80	0.00	5.98	17.21	0.00	1.65	0.10	75.87	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.50	17.15044	31.80	0.00	5.98	17.25	0.00	1.65	0.10	75.91	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.40	17.14886	31.80	0.00	5.97	17.30	0.00	1.65	0.10	75.94	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.30	17.14729	31.80	0.00	5.97	17.35	0.00	1.66	0.10	75.98	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.20	17.14571	31.80	0.00	5.97	17.40	0.00	1.66	0.10	76.02	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.10	17.14413	31.80	0.00	5.96	17.45	0.00	1.66	0.10	76.06	1.93	0.21	0.00	0.00	0.00	0.36	5.68
29.00	17.14256	31.80	0.00	5.96	17.49	0.00	1.67	0.10	76.10	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.90	17.14098	31.80	0.00	5.95	17.54	0.00	1.67	0.10	76.14	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.80	17.13941	31.80	0.00	5.95	17.59	0.00	1.67	0.10	76.18	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.70	17.13783	31.80	0.00	5.95	17.64	0.00	1.67	0.10	76.22	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.60	17.13626	31.80	0.00	5.94	17.68	0.00	1.68	0.10	76.26	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.50	17.13468	31.80	0.00	5.94	17.73	0.00	1.68	0.10	76.30	1.93	0.21	0.00	0.00	0.00	0.36	5.68
28.40	17.13311	31.80	0.00	5.93	17.78	0.00	1.68	0.10	76.34	1.92	0.21	0.00	0.00	0.00	0.36	5.68
28.30	17.13153	31.80	0.00	5.93	17.82	0.00	1.69	0.10	76.38	1.92	0.21	0.00	0.00	0.00	0.36	5.68
28.20	17.12996	31.80	0.00	5.93	17.87	0.00	1.69	0.10	76.42	1.92	0.21	0.00	0.00	0.00	0.36	5.68
28.10	17.12838	31.80	0.00	5.92	17.92	0.00	1.69	0.10	76.46	1.92	0.21	0.00	0.00	0.00	0.36	5.68
28.00	17.12680	31.80	0.00	5.92	17.96	0.00	1.70	0.10	76.50	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.90	17.12523	31.80	0.00	5.91	18.01	0.00	1.70	0.10	76.54	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.80	17.12365	31.80	0.00	5.91	18.06	0.00	1.70	0.10	76.57	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.70	17.12208	31.80	0.00	5.91	18.10	0.00	1.70	0.10	76.61	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.60	17.12050	31.80	0.00	5.90	18.15	0.00	1.71	0.10	76.65	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.50	17.11893	31.80	0.00	5.90	18.19	0.00	1.71	0.10	76.69	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.40	17.11735	31.80	0.00	5.89	18.24	0.00	1.71	0.10	76.73	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.30	17.11578	31.80	0.00	5.89	18.28	0.00	1.72	0.10	76.77	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.20	17.11420	31.80	0.00	5.89	18.33	0.00	1.72	0.10	76.81	1.92	0.21	0.00	0.00	0.00	0.36	5.68

27.10	17.11263	31.80	0.00	5.88	18.37	0.00	1.72	0.10	76.85	1.92	0.21	0.00	0.00	0.00	0.36	5.68
27.00	17.11105	31.80	0.00	5.88	18.42	0.00	1.72	0.10	76.89	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.90	17.10947	31.80	0.00	5.87	18.46	0.00	1.73	0.10	76.93	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.80	17.10790	31.80	0.00	5.87	18.50	0.00	1.73	0.10	76.97	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.70	17.10632	31.80	0.00	5.87	18.55	0.00	1.73	0.10	77.01	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.60	17.10475	31.80	0.00	5.86	18.59	0.00	1.74	0.10	77.05	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.50	17.10317	31.80	0.00	5.86	18.63	0.00	1.74	0.10	77.09	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.40	17.10160	31.80	0.00	5.86	18.68	0.00	1.74	0.10	77.13	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.30	17.10002	31.80	0.00	5.85	18.72	0.00	1.74	0.10	77.17	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.20	17.09845	31.80	0.00	5.85	18.76	0.00	1.75	0.10	77.20	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.10	17.09687	31.80	0.00	5.85	18.81	0.00	1.75	0.10	77.24	1.92	0.21	0.00	0.00	0.00	0.36	5.68
26.00	17.09529	31.80	0.00	5.84	18.85	0.00	1.75	0.10	77.28	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.90	17.09372	31.80	0.00	5.84	18.89	0.00	1.75	0.10	77.32	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.80	17.09214	31.80	0.00	5.83	18.93	0.00	1.76	0.10	77.36	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.70	17.09057	31.80	0.00	5.83	18.98	0.00	1.76	0.10	77.40	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.60	17.08899	31.80	0.00	5.83	19.02	0.00	1.76	0.10	77.44	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.50	17.08742	31.80	0.00	5.82	19.06	0.00	1.77	0.10	77.48	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.40	17.08584	31.80	0.00	5.82	19.10	0.00	1.77	0.10	77.52	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.30	17.08427	31.80	0.00	5.82	19.14	0.00	1.77	0.10	77.56	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.20	17.08269	31.80	0.00	5.81	19.19	0.00	1.77	0.10	77.60	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.10	17.08112	31.80	0.00	5.81	19.23	0.00	1.78	0.10	77.64	1.92	0.21	0.00	0.00	0.00	0.36	5.68
25.00	17.07954	31.80	0.00	5.81	19.27	0.00	1.78	0.10	77.68	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.90	17.07796	31.80	0.00	5.80	19.31	0.00	1.78	0.10	77.72	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.80	17.07639	31.80	0.00	5.80	19.35	0.00	1.78	0.10	77.76	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.70	17.07481	31.80	0.00	5.80	19.39	0.00	1.79	0.10	77.80	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.60	17.07324	31.80	0.00	5.79	19.43	0.00	1.79	0.10	77.83	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.50	17.07166	31.80	0.00	5.79	19.47	0.00	1.79	0.10	77.87	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.40	17.07009	31.80	0.00	5.79	19.51	0.00	1.80	0.10	77.91	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.30	17.06851	31.80	0.00	5.78	19.55	0.00	1.80	0.10	77.95	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.20	17.06694	31.80	0.00	5.78	19.59	0.00	1.80	0.10	77.99	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.10	17.06536	31.80	0.00	5.78	19.63	0.00	1.80	0.10	78.03	1.92	0.21	0.00	0.00	0.00	0.36	5.68
24.00	17.06379	31.80	0.00	5.77	19.67	0.00	1.81	0.10	78.07	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.90	17.06221	31.80	0.00	5.77	19.71	0.00	1.81	0.10	78.11	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.80	17.06063	31.80	0.00	5.77	19.75	0.00	1.81	0.10	78.15	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.70	17.05906	31.80	0.00	5.76	19.79	0.00	1.81	0.10	78.19	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.60	17.05748	31.80	0.00	5.76	19.83	0.00	1.82	0.10	78.23	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.50	17.05591	31.80	0.00	5.76	19.87	0.00	1.82	0.10	78.27	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.40	17.05433	31.80	0.00	5.75	19.91	0.00	1.82	0.10	78.31	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.30	17.05276	31.80	0.00	5.75	19.95	0.00	1.82	0.10	78.35	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.20	17.05118	31.80	0.00	5.75	19.98	0.00	1.83	0.10	78.39	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.10	17.04961	31.80	0.00	5.74	20.02	0.00	1.83	0.10	78.43	1.92	0.21	0.00	0.00	0.00	0.36	5.68
23.00	17.04803	31.80	0.00	5.74	20.06	0.00	1.83	0.10	78.46	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.90	17.04646	31.80	0.00	5.74	20.10	0.00	1.83	0.10	78.50	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.80	17.04488	31.80	0.00	5.74	20.14	0.00	1.84	0.10	78.54	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.70	17.04330	31.80	0.00	5.73	20.17	0.00	1.84	0.10	78.58	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.60	17.04173	31.80	0.00	5.73	20.21	0.00	1.84	0.10	78.62	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.50	17.04015	31.80	0.00	5.73	20.25	0.00	1.85	0.10	78.66	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.40	17.03858	31.80	0.00	5.72	20.29	0.00	1.85	0.10	78.70	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.30	17.03700	31.80	0.00	5.72	20.32	0.00	1.85	0.10	78.74	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.20	17.03543	31.80	0.00	5.72	20.36	0.00	1.85	0.10	78.78	1.92	0.21	0.00	0.00	0.00	0.36	5.68

22.10	17.03385	31.80	0.00	5.71	20.40	0.00	1.86	0.11	78.82	1.92	0.21	0.00	0.00	0.00	0.36	5.68
22.00	17.03228	31.80	0.00	5.71	20.44	0.00	1.86	0.11	78.86	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.90	17.03070	31.80	0.00	5.71	20.47	0.00	1.86	0.11	78.90	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.80	17.02913	31.80	0.00	5.71	20.51	0.00	1.86	0.11	78.94	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.70	17.02755	31.80	0.00	5.70	20.55	0.00	1.87	0.11	78.98	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.60	17.02597	31.80	0.00	5.70	20.58	0.00	1.87	0.11	79.02	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.50	17.02440	31.80	0.00	5.70	20.62	0.00	1.87	0.11	79.06	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.40	17.02282	31.80	0.00	5.69	20.65	0.00	1.87	0.11	79.09	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.30	17.02125	31.80	0.00	5.69	20.69	0.00	1.88	0.11	79.13	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.20	17.01967	31.80	0.00	5.69	20.73	0.00	1.88	0.11	79.17	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.10	17.01810	31.80	0.00	5.69	20.76	0.00	1.88	0.11	79.21	1.92	0.21	0.00	0.00	0.00	0.36	5.68
21.00	17.01652	31.80	0.00	5.68	20.80	0.00	1.88	0.11	79.25	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.90	17.01495	31.80	0.00	5.68	20.83	0.00	1.89	0.11	79.29	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.80	17.01337	31.80	0.00	5.68	20.87	0.00	1.89	0.11	79.33	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.70	17.01180	31.80	0.00	5.67	20.90	0.00	1.89	0.11	79.37	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.60	17.01022	31.80	0.00	5.67	20.94	0.00	1.89	0.11	79.41	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.50	17.00864	31.80	0.00	5.67	20.97	0.00	1.89	0.11	79.45	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.40	17.00707	31.80	0.00	5.67	21.01	0.00	1.90	0.11	79.49	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.30	17.00549	31.80	0.00	5.66	21.04	0.00	1.90	0.11	79.53	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.20	17.00392	31.80	0.00	5.66	21.08	0.00	1.90	0.11	79.57	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.10	17.00234	31.80	0.00	5.66	21.11	0.00	1.90	0.11	79.61	1.92	0.21	0.00	0.00	0.00	0.36	5.68
20.00	17.00077	31.80	0.00	5.66	21.14	0.00	1.91	0.11	79.65	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.90	16.99919	31.80	0.00	5.65	21.18	0.00	1.91	0.11	79.69	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.80	16.99762	31.80	0.00	5.65	21.21	0.00	1.91	0.11	79.72	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.70	16.99604	31.80	0.00	5.65	21.25	0.00	1.91	0.11	79.76	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.60	16.99446	31.80	0.00	5.65	21.28	0.00	1.92	0.11	79.80	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.50	16.99289	31.80	0.00	5.64	21.31	0.00	1.92	0.11	79.84	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.40	16.99131	31.80	0.00	5.64	21.35	0.00	1.92	0.11	79.88	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.30	16.98974	31.80	0.00	5.64	21.38	0.00	1.92	0.11	79.92	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.20	16.98816	31.80	0.00	5.64	21.41	0.00	1.93	0.11	79.96	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.10	16.98659	31.80	0.00	5.63	21.44	0.00	1.93	0.11	80.00	1.92	0.21	0.00	0.00	0.00	0.36	5.68
19.00	13.22594	31.80	0.00	5.68	21.42	0.00	1.93	0.11	79.62	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.90	13.22209	31.80	0.00	5.73	21.38	0.00	1.93	0.11	79.23	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.80	13.21825	31.80	0.00	5.79	21.35	0.00	1.93	0.11	78.85	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.70	13.21440	31.80	0.00	5.84	21.31	0.00	1.92	0.11	78.46	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.60	13.21056	31.80	0.00	5.89	21.28	0.00	1.92	0.11	78.08	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.50	13.20671	31.80	0.00	5.94	21.25	0.00	1.92	0.11	77.69	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.40	13.20286	31.80	0.00	5.99	21.21	0.00	1.92	0.11	77.31	0.60	0.09	0.00	0.00	0.00	0.36	3.15
18.30	13.19902	31.80	0.00	6.04	21.18	0.00	1.92	0.11	76.92	0.60	0.09	0.00	0.00	0.00	0.37	3.15
18.20	13.19517	31.80	0.00	6.09	21.15	0.00	1.92	0.11	76.54	0.60	0.09	0.00	0.00	0.00	0.37	3.15
18.10	13.19133	31.80	0.00	6.14	21.11	0.00	1.92	0.11	76.15	0.60	0.09	0.00	0.00	0.00	0.37	3.15
18.00	13.18748	31.80	0.00	6.19	21.08	0.00	1.92	0.11	75.77	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.90	13.18363	31.80	0.00	6.23	21.05	0.00	1.91	0.11	75.38	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.80	13.17979	31.80	0.00	6.28	21.01	0.00	1.91	0.11	75.00	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.70	13.17594	31.80	0.00	6.32	20.98	0.00	1.91	0.11	74.62	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.60	13.17209	31.80	0.00	6.37	20.95	0.00	1.91	0.11	74.23	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.50	13.16825	31.80	0.00	6.41	20.91	0.00	1.91	0.11	73.85	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.40	13.16440	31.80	0.00	6.45	20.88	0.00	1.91	0.11	73.46	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.30	13.16056	31.80	0.00	6.49	20.85	0.00	1.91	0.11	73.08	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.20	13.15671	31.80	0.00	6.53	20.82	0.00	1.91	0.11	72.69	0.60	0.09	0.00	0.00	0.00	0.37	3.15

17.10	13.15286	31.80	0.00	6.57	20.78	0.00	1.91	0.11	72.31	0.60	0.09	0.00	0.00	0.00	0.37	3.15
17.00	13.14902	31.80	0.00	6.61	20.75	0.00	1.90	0.11	71.92	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.90	13.14517	31.80	0.00	6.65	20.72	0.00	1.90	0.11	71.54	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.80	13.14132	31.80	0.00	6.69	20.68	0.00	1.90	0.11	71.15	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.70	13.13748	31.80	0.00	6.72	20.65	0.00	1.90	0.11	70.77	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.60	13.13363	31.80	0.00	6.76	20.62	0.00	1.90	0.11	70.38	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.50	13.12979	31.80	0.00	6.80	20.59	0.00	1.90	0.11	70.00	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.40	13.12594	31.80	0.00	6.83	20.55	0.00	1.90	0.11	69.62	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.30	13.12209	31.80	0.00	6.86	20.52	0.00	1.90	0.11	69.23	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.20	13.11825	31.80	0.00	6.90	20.49	0.00	1.90	0.11	68.85	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.10	13.11440	31.80	0.00	6.93	20.46	0.00	1.89	0.11	68.46	0.60	0.09	0.00	0.00	0.00	0.37	3.15
16.00	13.11056	31.80	0.00	6.96	20.42	0.00	1.89	0.11	68.08	0.60	0.09	0.00	0.00	0.00	0.37	3.15
15.90	13.10671	31.80	0.00	6.99	20.39	0.00	1.89	0.11	67.69	0.60	0.09	0.00	0.00	0.00	0.37	3.15
15.80	13.10286	31.80	0.00	7.02	20.36	0.00	1.89	0.11	67.31	0.60	0.09	0.00	0.00	0.00	0.38	3.15
15.70	13.09902	31.80	0.00	7.05	20.33	0.00	1.89	0.11	66.92	0.60	0.09	0.00	0.00	0.00	0.38	3.15
15.60	13.09517	31.80	0.00	7.08	20.30	0.00	1.89	0.11	66.54	0.60	0.09	0.00	0.00	0.00	0.38	3.15
15.50	13.09132	31.80	0.00	7.11	20.26	0.00	1.89	0.11	66.15	0.60	0.09	0.00	0.00	0.00	0.38	3.15
15.40	13.08748	31.80	0.00	7.14	20.23	0.00	1.89	0.11	65.77	0.60	0.09	0.00	0.00	0.00	0.38	3.15
15.30	13.08363	31.80	0.00	7.16	20.20	0.00	1.89	0.11	65.38	0.59	0.09	0.00	0.00	0.00	0.38	3.15
15.20	13.07979	31.80	0.00	7.19	20.17	0.00	1.88	0.11	65.00	0.59	0.09	0.00	0.00	0.00	0.38	3.15
15.10	13.07594	31.80	0.00	7.21	20.14	0.00	1.88	0.11	64.62	0.59	0.09	0.00	0.00	0.00	0.38	3.15
15.00	13.07209	31.80	0.00	7.24	20.10	0.00	1.88	0.11	64.23	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.90	13.06825	31.80	0.00	7.26	20.07	0.00	1.88	0.11	63.85	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.80	13.06440	31.80	0.00	7.29	20.04	0.00	1.88	0.11	63.46	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.70	13.06056	31.80	0.00	7.31	20.01	0.00	1.88	0.11	63.08	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.60	13.05671	31.80	0.00	7.33	19.98	0.00	1.88	0.11	62.69	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.50	13.05286	31.80	0.00	7.35	19.95	0.00	1.88	0.11	62.31	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.40	13.04902	31.80	0.00	7.37	19.91	0.00	1.88	0.11	61.92	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.30	13.04517	31.80	0.00	7.39	19.88	0.00	1.88	0.11	61.54	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.20	13.04132	31.80	0.00	7.41	19.85	0.00	1.87	0.11	61.15	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.10	13.03748	31.80	0.00	7.43	19.82	0.00	1.87	0.11	60.77	0.59	0.09	0.00	0.00	0.00	0.38	3.15
14.00	13.03363	31.80	0.00	7.45	19.78	0.00	1.87	0.11	60.38	0.59	0.09	0.00	0.00	0.00	0.38	3.15
13.90	13.02979	31.80	0.00	7.46	19.66	0.00	1.87	0.11	60.00	0.59	0.09	0.00	0.00	0.00	0.38	3.15
13.80	14.72381	31.80	0.00	7.22	17.83	0.00	1.88	0.10	59.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.70	14.71881	31.80	0.00	7.25	17.79	0.00	1.88	0.10	59.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.60	14.71381	31.80	0.00	7.29	17.75	0.00	1.88	0.11	58.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.50	14.70881	31.80	0.00	7.32	17.71	0.00	1.88	0.11	58.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.40	14.70381	31.80	0.00	7.35	17.67	0.00	1.88	0.11	57.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.30	14.69881	31.80	0.00	7.37	17.63	0.00	1.88	0.11	57.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.20	14.69381	31.80	0.00	7.40	17.59	0.00	1.87	0.11	56.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.10	14.68881	31.80	0.00	7.43	17.56	0.00	1.87	0.11	56.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
13.00	14.68381	31.80	0.00	7.45	17.52	0.00	1.87	0.11	55.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.90	14.67881	31.80	0.00	7.48	17.48	0.00	1.87	0.11	55.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.80	14.67381	31.80	0.00	7.50	17.44	0.00	1.87	0.11	54.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.70	14.66881	31.80	0.00	7.52	17.40	0.00	1.87	0.11	54.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.60	14.66381	31.80	0.00	7.54	17.36	0.00	1.87	0.11	53.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.50	14.65880	31.80	0.00	7.56	17.32	0.00	1.86	0.11	53.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.40	14.65380	31.80	0.00	7.58	17.29	0.00	1.86	0.11	52.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.30	14.64880	31.80	0.00	7.59	17.25	0.00	1.86	0.11	52.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.20	14.64380	31.80	0.00	7.61	17.21	0.00	1.86	0.11	51.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15

12.10	14.63880	31.80	0.00	7.63	17.17	0.00	1.86	0.11	51.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
12.00	14.63380	31.80	0.00	7.64	17.13	0.00	1.86	0.11	50.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.90	14.62880	31.80	0.00	7.65	17.09	0.00	1.86	0.11	50.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.80	14.62380	31.80	0.00	7.67	17.06	0.00	1.85	0.11	49.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.70	14.61880	31.80	0.00	7.68	17.02	0.00	1.85	0.11	49.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.60	14.61380	31.80	0.00	7.69	16.98	0.00	1.85	0.11	48.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.50	14.60880	31.80	0.00	7.70	16.94	0.00	1.85	0.11	48.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.40	14.60380	31.80	0.00	7.70	16.91	0.00	1.85	0.11	47.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.30	14.59880	31.80	0.00	7.71	16.87	0.00	1.85	0.11	47.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.20	14.59380	31.80	0.00	7.72	16.83	0.00	1.85	0.11	46.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.10	14.58880	31.80	0.00	7.72	16.79	0.00	1.84	0.11	46.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
11.00	14.58380	31.80	0.00	7.73	16.76	0.00	1.84	0.11	45.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.90	14.57880	31.80	0.00	7.73	16.72	0.00	1.84	0.11	45.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.80	14.57380	31.80	0.00	7.73	16.68	0.00	1.84	0.11	44.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.70	14.56880	31.80	0.00	7.73	16.65	0.00	1.84	0.11	44.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.60	14.56380	31.80	0.00	7.74	16.61	0.00	1.84	0.11	43.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.50	14.55880	31.80	0.00	7.74	16.57	0.00	1.83	0.11	43.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.40	14.55380	31.80	0.00	7.73	16.54	0.00	1.83	0.11	42.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.30	14.54880	31.80	0.00	7.73	16.50	0.00	1.83	0.11	42.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.20	14.54380	31.80	0.00	7.73	16.46	0.00	1.83	0.11	41.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.10	14.53880	31.80	0.00	7.73	16.43	0.00	1.83	0.11	41.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
10.00	14.53380	31.80	0.00	7.72	16.39	0.00	1.83	0.11	40.50	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.90	14.52880	31.80	0.00	7.72	16.36	0.00	1.83	0.11	40.00	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.80	5.31413	31.80	0.00	7.71	16.33	0.00	1.83	0.11	39.75	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.70	5.31095	31.80	0.00	7.71	16.28	0.00	1.82	0.11	39.49	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.60	5.30778	31.80	0.00	7.70	16.22	0.00	1.82	0.11	39.24	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.50	5.30460	31.80	0.00	7.69	16.16	0.00	1.82	0.11	38.98	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.40	5.30143	31.80	0.00	7.67	16.10	0.00	1.82	0.11	38.73	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.30	5.29825	31.80	0.00	7.66	16.05	0.00	1.81	0.11	38.48	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.20	5.29508	31.80	0.00	7.65	15.99	0.00	1.81	0.11	38.22	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.10	5.29190	31.80	0.00	7.64	15.93	0.00	1.81	0.11	37.97	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.00	5.28873	31.80	0.00	7.63	15.88	0.00	1.81	0.11	37.71	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.90	5.28555	31.80	0.00	7.62	15.82	0.00	1.80	0.11	37.46	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.80	5.28238	31.80	0.00	7.60	15.77	0.00	1.80	0.11	37.21	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.70	5.27920	31.80	0.00	7.59	15.71	0.00	1.80	0.11	36.95	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.60	5.27603	31.80	0.00	7.58	15.65	0.00	1.80	0.11	36.70	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.50	5.27285	31.80	0.00	7.56	15.60	0.00	1.79	0.11	36.44	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.40	5.26968	31.80	0.00	7.55	15.54	0.00	1.79	0.11	36.19	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.30	5.26651	31.80	0.00	7.53	15.49	0.00	1.79	0.11	35.94	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.20	5.26333	31.80	0.00	7.52	15.44	0.00	1.79	0.11	35.68	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.10	5.26016	31.80	0.00	7.50	15.38	0.00	1.79	0.11	35.43	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.00	5.25698	31.80	0.00	7.49	15.33	0.00	1.78	0.11	35.17	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.90	5.25381	31.80	0.00	7.47	15.27	0.00	1.78	0.11	34.92	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.80	5.25063	31.80	0.00	7.46	15.22	0.00	1.78	0.11	34.67	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.70	5.24746	31.80	0.00	7.44	15.17	0.00	1.78	0.11	34.41	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.60	5.24428	31.80	0.00	7.42	15.11	0.00	1.77	0.11	34.16	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.50	5.24111	31.80	0.00	7.40	15.06	0.00	1.77	0.11	33.90	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.40	5.23793	31.80	0.00	7.39	15.01	0.00	1.77	0.11	33.65	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.30	5.23476	31.80	0.00	7.37	14.95	0.00	1.77	0.11	33.40	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.20	5.23158	31.80	0.00	7.35	14.90	0.00	1.76	0.11	33.14	0.49	0.09	0.00	0.00	0.00	0.38	3.15

7.10	5.22841	31.80	0.00	7.33	14.85	0.00	1.76	0.11	32.89	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.00	5.22523	31.80	0.00	7.31	14.80	0.00	1.76	0.11	32.63	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.90	5.22206	31.80	0.00	7.30	14.74	0.00	1.76	0.11	32.38	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.80	5.21888	31.80	0.00	7.28	14.69	0.00	1.76	0.11	32.13	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.70	5.21571	31.80	0.00	7.26	14.64	0.00	1.75	0.11	31.87	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.60	5.21253	31.80	0.00	7.24	14.59	0.00	1.75	0.11	31.62	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.50	5.20936	31.80	0.00	7.22	14.54	0.00	1.75	0.11	31.37	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.40	5.20618	31.80	0.00	7.20	14.49	0.00	1.75	0.11	31.11	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.30	5.20301	31.80	0.00	7.18	14.44	0.00	1.74	0.11	30.86	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.20	5.19983	31.80	0.00	7.16	14.39	0.00	1.74	0.11	30.60	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.10	5.19666	31.80	0.00	7.14	14.34	0.00	1.74	0.11	30.35	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.00	5.19349	31.80	0.00	7.11	14.29	0.00	1.74	0.11	30.10	0.49	0.09	0.00	0.00	0.00	0.38	3.15
5.90	5.19031	31.80	0.00	7.09	14.24	0.00	1.74	0.11	29.84	0.49	0.09	0.00	0.00	0.00	0.38	3.15
5.80	5.18714	31.80	0.00	7.07	14.19	0.00	1.73	0.11	29.59	0.49	0.09	0.00	0.00	0.00	0.38	3.15
5.70	5.18396	31.80	0.00	7.05	14.14	0.00	1.73	0.11	29.33	0.49	0.09	0.00	0.00	0.00	0.38	3.15
5.60	5.18079	31.80	0.00	7.03	14.09	0.00	1.73	0.11	29.08	0.49	0.09	0.00	0.00	0.00	0.38	3.15
5.50	5.17761	31.80	0.00	7.01	14.04	0.00	1.73	0.11	28.83	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.40	5.17444	31.80	0.00	6.98	13.99	0.00	1.72	0.11	28.57	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.30	5.17126	31.80	0.00	6.96	13.94	0.00	1.72	0.11	28.32	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.20	5.16809	31.80	0.00	6.94	13.89	0.00	1.72	0.11	28.06	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.10	5.16491	31.80	0.00	6.92	13.85	0.00	1.72	0.11	27.81	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.00	5.16174	31.80	0.00	6.89	13.80	0.00	1.72	0.11	27.56	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.90	5.15856	31.80	0.00	6.87	13.75	0.00	1.71	0.11	27.30	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.80	5.15539	31.80	0.00	6.85	13.70	0.00	1.71	0.11	27.05	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.70	5.15221	31.80	0.00	6.82	13.65	0.00	1.71	0.11	26.79	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.60	5.14904	31.80	0.00	6.80	13.61	0.00	1.71	0.11	26.54	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.50	5.14586	31.80	0.00	6.77	13.56	0.00	1.70	0.11	26.29	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.40	5.14269	31.80	0.00	6.75	13.51	0.00	1.70	0.11	26.03	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.30	5.13951	31.80	0.00	6.72	13.47	0.00	1.70	0.11	25.78	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.20	5.13634	31.80	0.00	6.70	13.42	0.00	1.70	0.11	25.52	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.10	5.13316	31.80	0.00	6.67	13.37	0.00	1.70	0.11	25.27	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.00	5.12999	31.80	0.00	6.65	13.33	0.00	1.69	0.11	25.02	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.90	5.12681	31.80	0.00	6.62	13.28	0.00	1.69	0.11	24.76	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.80	5.12364	31.80	0.00	6.60	13.23	0.00	1.69	0.11	24.51	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.70	5.12047	31.80	0.00	6.57	13.19	0.00	1.69	0.11	24.25	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.60	5.11729	31.80	0.00	6.55	13.14	0.00	1.69	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.50	5.11062	31.82	0.00	6.51	13.08	0.00	1.68	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.40	5.10396	31.83	0.00	6.48	13.02	0.00	1.68	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.30	5.09729	31.85	0.00	6.45	12.96	0.00	1.68	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.20	5.09062	31.87	0.00	6.42	12.90	0.00	1.67	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.10	5.08396	31.88	0.00	6.39	12.84	0.00	1.67	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.00	5.07729	31.90	0.00	6.36	12.79	0.00	1.67	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
2.90	5.07062	31.92	0.00	6.34	12.73	0.00	1.66	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.80	5.06396	31.93	0.00	6.31	12.67	0.00	1.66	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.70	5.05729	31.95	0.00	6.28	12.61	0.00	1.66	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.60	5.05062	31.97	0.00	6.26	12.56	0.00	1.65	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.50	5.04396	31.98	0.00	6.23	12.50	0.00	1.65	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.40	5.03729	32.00	0.00	6.21	12.44	0.00	1.65	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.30	5.03062	32.02	0.00	6.19	12.39	0.00	1.65	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.20	5.02396	32.03	0.00	6.16	12.33	0.00	1.64	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20

2.10	5.01729	32.05	0.00	6.14	12.28	0.00	1.64	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.00	5.01062	32.07	0.00	6.12	12.22	0.00	1.64	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.90	5.00396	32.08	0.00	6.10	12.17	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.80	4.99729	32.10	0.00	6.08	12.11	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.70	4.99062	32.12	0.00	6.06	12.06	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.60	4.98396	32.13	0.00	6.04	12.01	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.22
1.50	4.97729	32.15	0.00	6.02	11.95	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.22
1.40	4.97062	32.17	0.00	6.01	11.90	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.30	4.96396	32.18	0.00	5.99	11.85	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.20	4.95729	32.20	0.00	5.97	11.79	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.10	4.95062	32.22	0.00	5.96	11.74	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
1.00	4.94396	32.23	0.00	5.94	11.69	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.90	4.93729	32.25	0.00	5.93	11.63	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.80	4.93062	32.27	0.00	5.91	11.58	0.00	1.60	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.70	4.92396	32.28	0.00	5.90	11.49	0.00	1.61	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.60	4.91729	32.30	0.00	5.92	11.20	0.00	1.66	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.50	10.27383	32.28	0.00	6.15	9.10	0.00	2.12	0.13	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.25
0.40	10.27383	32.27	0.00	6.15	9.09	0.00	2.12	0.13	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.25
0.30	10.27383	32.25	0.00	6.14	9.08	0.00	2.12	0.13	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.24
0.20	10.27383	32.23	0.00	6.14	9.07	0.00	2.12	0.13	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.24
0.10	10.27383	32.22	0.00	6.14	9.02	0.00	2.10	0.13	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.24
0.00	10.27383	32.20	0.00	6.13	8.31	0.00	1.89	0.12	24.00	0.85	0.09	0.00	0.00	0.00	0.38	3.23

CONDENSED CAPSULE SUMMARY FOR Station 935

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	REAER	ORGN	BOD1	NH3	BOD2	CHLA	BOD2 RATE	NH3 DECA	NH3 SETT	ORGN DECA	ORGN SETT	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.03776	31.10	0.00	5.00	3.42	0.00	0.90	0.10	10.00									
17.90	0.03776	31.48	0.00	4.91	2.95	0.00	0.86	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.80	0.03776	31.45	0.00	4.90	2.54	0.00	0.82	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.70	0.03776	31.43	0.00	4.94	2.19	0.00	0.78	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.60	0.03776	31.41	0.00	4.98	1.89	0.00	0.75	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.50	0.03776	31.39	0.00	5.04	1.63	0.00	0.71	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.07
17.40	0.03776	31.36	0.00	5.09	1.40	0.00	0.68	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.07
17.30	0.03776	31.34	0.00	5.14	1.21	0.00	0.65	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.06
17.20	0.03776	31.32	0.00	5.18	1.04	0.00	0.62	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.06
17.10	0.03776	31.30	0.00	5.22	0.90	0.00	0.59	0.07	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.06
17.00	0.03776	31.27	0.00	5.26	0.78	0.00	0.57	0.07	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.05
16.90	0.03776	31.25	0.00	5.29	0.67	0.00	0.54	0.07	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.05
16.80	0.03776	31.23	0.00	5.32	0.58	0.00	0.52	0.06	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.04
16.70	0.03776	31.20	0.00	5.35	0.50	0.00	0.49	0.06	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.04
16.60	0.03776	31.18	0.00	5.38	0.43	0.00	0.47	0.06	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.03
16.50	0.03776	31.16	0.00	5.40	0.37	0.00	0.45	0.06	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.03
16.40	0.03776	31.14	0.00	5.42	0.32	0.00	0.43	0.05	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.02
16.30	0.03776	31.11	0.00	5.44	0.28	0.00	0.41	0.05	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.02
16.20	0.03776	31.09	0.00	5.46	0.24	0.00	0.39	0.05	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.02
16.10	0.03776	31.07	0.00	5.48	0.21	0.00	0.37	0.05	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.01
16.00	0.03776	31.05	0.00	5.49	0.18	0.00	0.36	0.04	10.00	0.48	0.08	0.00	0.00	0.00	0.23	3.01
15.90	0.03776	31.02	0.00	5.51	0.15	0.00	0.34	0.04	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00
15.80	0.03776	31.00	0.00	5.52	0.13	0.00	0.32	0.04	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00
15.70	0.20860	31.00	0.00	7.03	2.80	0.00	0.74	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20

15.60	0.37945	31.00	0.00	7.03	2.93	0.00	0.77	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.50	0.55029	31.00	0.00	7.03	2.96	0.00	0.78	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.40	0.72114	31.00	0.00	7.02	2.97	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.30	0.89198	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.20	1.06283	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.10	1.23367	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.00	1.40452	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.90	1.57536	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.80	1.72827	31.04	0.00	6.26	3.60	0.00	1.06	0.09	11.15	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.70	1.88118	31.08	0.00	5.93	4.05	0.00	1.27	0.10	12.31	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.60	2.03408	31.12	0.00	5.79	4.38	0.00	1.43	0.11	13.46	0.64	0.08	0.00	0.00	0.00	0.23	3.02
14.50	2.18699	31.15	0.00	5.76	4.63	0.00	1.56	0.12	14.62	0.65	0.08	0.00	0.00	0.00	0.23	3.03
14.40	2.33990	31.19	0.00	5.77	4.82	0.00	1.67	0.13	15.77	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.30	2.49281	31.23	0.00	5.82	4.98	0.00	1.75	0.13	16.92	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.20	2.64571	31.27	0.00	5.88	5.10	0.00	1.82	0.14	18.08	0.65	0.08	0.00	0.00	0.00	0.23	3.05
14.10	2.79862	31.31	0.00	5.96	5.19	0.00	1.88	0.15	19.23	0.65	0.08	0.00	0.00	0.00	0.23	3.06
14.00	2.95153	31.35	0.00	6.04	5.27	0.00	1.93	0.15	20.38	0.65	0.08	0.00	0.00	0.00	0.23	3.06
13.90	3.10444	31.38	0.00	6.13	5.34	0.00	1.98	0.15	21.54	0.65	0.08	0.00	0.00	0.00	0.24	3.07
13.80	3.25734	31.42	0.00	6.22	5.39	0.00	2.01	0.16	22.69	0.65	0.08	0.00	0.00	0.00	0.24	3.08
13.70	3.41025	31.46	0.00	6.31	5.43	0.00	2.05	0.16	23.85	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.60	3.56316	31.50	0.00	6.41	5.47	0.00	2.07	0.16	25.00	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.50	3.56316	31.50	0.00	6.29	5.50	0.00	2.06	0.16	26.44	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.40	3.56316	31.50	0.00	6.18	5.53	0.00	2.04	0.16	27.89	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.30	3.56316	31.50	0.00	6.09	5.56	0.00	2.03	0.16	29.33	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.20	3.56316	31.50	0.00	6.01	5.59	0.00	2.01	0.16	30.78	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.10	3.56316	31.50	0.00	5.95	5.61	0.00	2.00	0.16	32.22	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.00	3.56316	31.50	0.00	5.90	5.64	0.00	1.98	0.15	33.67	0.49	0.08	0.00	0.00	0.00	0.36	5.78
12.90	3.56316	31.50	0.00	5.86	5.67	0.00	1.97	0.15	35.11	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.80	3.56316	31.50	0.00	5.84	5.69	0.00	1.95	0.15	36.56	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.70	3.56316	31.50	0.00	5.83	5.72	0.00	1.94	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.60	3.56316	31.50	0.00	5.82	5.74	0.00	1.93	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.50	3.56316	31.50	0.00	5.81	5.75	0.00	1.93	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.40	3.56316	31.50	0.00	5.81	5.76	0.00	1.92	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.30	3.56316	31.50	0.00	5.80	5.78	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.20	3.56316	31.50	0.00	5.80	5.79	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.10	3.56316	31.50	0.00	5.79	5.81	0.00	1.90	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.00	3.56316	31.50	0.00	5.78	5.82	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.90	3.56316	31.50	0.00	5.78	5.83	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.80	3.56316	31.50	0.00	5.77	5.85	0.00	1.88	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.70	3.56316	31.50	0.00	5.77	5.86	0.00	1.88	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.60	3.56316	31.50	0.00	5.76	5.87	0.00	1.87	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.50	3.56316	31.50	0.00	5.76	5.89	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.40	3.56316	31.50	0.00	5.75	5.90	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.30	3.56316	31.50	0.00	5.75	5.91	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.20	3.56316	31.50	0.00	5.74	5.92	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.10	3.56316	31.50	0.00	5.74	5.94	0.00	1.84	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.00	3.56316	31.50	0.00	5.74	5.95	0.00	1.84	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.90	3.56316	31.50	0.00	5.73	5.96	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.80	3.56316	31.50	0.00	5.73	5.97	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.70	3.56316	31.50	0.00	5.70	6.00	0.00	1.82	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78

10.60	3.56316	31.50	0.00	5.67	6.03	0.00	1.81	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.50	3.56316	31.50	0.00	5.65	6.05	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.40	3.56316	31.50	0.00	5.62	6.08	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.30	3.56316	31.50	0.00	5.60	6.10	0.00	1.79	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.20	3.56316	31.50	0.00	5.58	6.13	0.00	1.78	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.10	3.56316	31.50	0.00	5.55	6.15	0.00	1.78	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.00	3.56316	31.50	0.00	5.53	6.17	0.00	1.77	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.90	3.56316	31.50	0.00	5.51	6.20	0.00	1.76	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.80	3.56316	31.50	0.00	5.49	6.22	0.00	1.76	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.70	3.56316	31.50	0.00	5.47	6.25	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.60	3.56316	31.50	0.00	5.45	6.27	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.50	3.56316	31.50	0.00	5.42	6.36	0.00	1.78	0.13	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.40	6.84793	31.50	0.00	5.26	8.06	0.00	2.82	0.09	38.00	0.76	0.08	0.00	0.00	0.00	0.35	3.09
9.30	6.84793	31.50	0.00	5.29	8.05	0.00	2.82	0.10	38.00	0.76	0.08	0.00	0.00	0.00	0.35	3.09
9.20	5.10375	31.57	0.00	5.31	8.03	0.00	2.82	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.35	3.11
9.10	5.10588	31.63	0.00	5.34	8.02	0.00	2.82	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.35	3.12
9.00	5.10800	31.70	0.00	5.38	8.01	0.00	2.81	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.35	3.13
8.90	5.11013	31.77	0.00	5.41	7.99	0.00	2.81	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.36	3.15
8.80	5.11225	31.83	0.00	5.44	7.98	0.00	2.81	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.36	3.16
8.70	5.11438	31.90	0.00	5.47	7.96	0.00	2.81	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.36	3.17
8.60	5.11650	31.97	0.00	5.50	7.95	0.00	2.81	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.36	3.19
8.50	5.11863	32.03	0.00	5.53	7.93	0.00	2.80	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.37	3.20
8.40	5.12075	32.10	0.00	5.56	7.92	0.00	2.80	0.10	38.00	0.67	0.09	0.00	0.00	0.00	0.37	3.21
8.30	5.12288	32.17	0.00	5.59	7.90	0.00	2.80	0.10	38.00	0.68	0.09	0.00	0.00	0.00	0.37	3.23
8.20	5.12500	32.23	0.00	5.62	7.89	0.00	2.80	0.10	38.00	0.68	0.09	0.00	0.00	0.00	0.37	3.24
8.10	5.12713	32.30	0.00	5.65	7.88	0.00	2.79	0.10	38.00	0.68	0.09	0.00	0.00	0.00	0.38	3.25
8.00	5.12992	32.30	0.00	5.67	7.86	0.00	2.79	0.11	37.89	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.90	5.13271	32.30	0.00	5.70	7.85	0.00	2.79	0.11	37.78	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.80	5.13551	32.30	0.00	5.72	7.84	0.00	2.79	0.11	37.67	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.70	5.13830	32.30	0.00	5.75	7.82	0.00	2.78	0.11	37.56	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.60	5.14109	32.30	0.00	5.77	7.81	0.00	2.78	0.11	37.45	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.50	5.14389	32.30	0.00	5.79	7.80	0.00	2.78	0.11	37.34	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.40	5.14668	32.30	0.00	5.82	7.78	0.00	2.78	0.11	37.23	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.30	5.14947	32.30	0.00	5.84	7.77	0.00	2.77	0.11	37.12	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.20	5.15227	32.30	0.00	5.86	7.76	0.00	2.77	0.11	37.01	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.10	5.15506	32.30	0.00	5.88	7.75	0.00	2.77	0.11	36.90	0.70	0.09	0.00	0.00	0.00	0.38	3.25
7.00	5.15785	32.30	0.00	5.90	7.73	0.00	2.77	0.11	36.79	0.70	0.09	0.00	0.00	0.00	0.38	3.25
6.90	5.16065	32.30	0.00	5.92	7.72	0.00	2.76	0.11	36.68	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.80	5.16344	32.30	0.00	5.94	7.71	0.00	2.76	0.11	36.58	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.70	5.16623	32.30	0.00	5.96	7.70	0.00	2.76	0.11	36.47	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.60	5.16903	32.30	0.00	5.98	7.68	0.00	2.76	0.11	36.36	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.50	5.17182	32.30	0.00	5.99	7.67	0.00	2.75	0.11	36.25	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.40	5.17461	32.30	0.00	6.01	7.66	0.00	2.75	0.11	36.14	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.30	5.17741	32.30	0.00	6.03	7.65	0.00	2.75	0.12	36.03	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.20	5.18020	32.30	0.00	6.05	7.63	0.00	2.75	0.12	35.92	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.10	5.18299	32.30	0.00	6.06	7.62	0.00	2.74	0.12	35.81	0.71	0.09	0.00	0.00	0.00	0.38	3.25
6.00	5.18579	32.30	0.00	6.08	7.61	0.00	2.74	0.12	35.70	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.90	5.18858	32.30	0.00	6.09	7.60	0.00	2.74	0.12	35.59	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.80	5.19137	32.30	0.00	6.11	7.58	0.00	2.74	0.12	35.48	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.70	5.19417	32.30	0.00	6.12	7.57	0.00	2.73	0.12	35.37	0.71	0.09	0.00	0.00	0.00	0.38	3.25

5.60	5.19696	32.30	0.00	6.14	7.56	0.00	2.73	0.12	35.26	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.50	5.19975	32.30	0.00	6.15	7.55	0.00	2.73	0.12	35.15	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.40	5.20255	32.30	0.00	6.16	7.54	0.00	2.73	0.12	35.04	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.30	5.20534	32.30	0.00	6.18	7.52	0.00	2.72	0.12	34.93	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.20	5.20813	32.30	0.00	6.19	7.51	0.00	2.72	0.12	34.82	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.10	5.21093	32.30	0.00	6.20	7.50	0.00	2.72	0.12	34.71	0.71	0.09	0.00	0.00	0.00	0.38	3.25
5.00	5.21372	32.30	0.00	6.21	7.49	0.00	2.72	0.12	34.60	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.90	5.21651	32.30	0.00	6.22	7.48	0.00	2.71	0.12	34.49	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.80	5.21931	32.30	0.00	6.23	7.46	0.00	2.71	0.12	34.38	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.70	5.22210	32.30	0.00	6.24	7.45	0.00	2.71	0.12	34.27	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.60	5.22489	32.30	0.00	6.26	7.44	0.00	2.71	0.12	34.16	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.50	5.22769	32.30	0.00	6.27	7.43	0.00	2.70	0.12	34.05	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.40	5.23048	32.30	0.00	6.27	7.42	0.00	2.70	0.12	33.95	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.30	5.23327	32.30	0.00	6.28	7.40	0.00	2.70	0.12	33.84	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.20	5.23607	32.30	0.00	6.29	7.39	0.00	2.70	0.12	33.73	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.10	5.23886	32.30	0.00	6.30	7.38	0.00	2.70	0.13	33.62	0.71	0.09	0.00	0.00	0.00	0.38	3.25
4.00	5.24165	32.30	0.00	6.31	7.37	0.00	2.69	0.13	33.51	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.90	5.24445	32.30	0.00	6.32	7.36	0.00	2.69	0.13	33.40	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.80	5.24724	32.30	0.00	6.33	7.35	0.00	2.69	0.13	33.29	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.70	5.25003	32.30	0.00	6.33	7.33	0.00	2.69	0.13	33.18	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.60	5.25283	32.30	0.00	6.34	7.32	0.00	2.68	0.13	33.07	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.50	5.25562	32.30	0.00	6.35	7.31	0.00	2.68	0.13	32.96	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.40	5.25841	32.30	0.00	6.35	7.30	0.00	2.68	0.13	32.85	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.30	5.26121	32.30	0.00	6.36	7.29	0.00	2.68	0.13	32.74	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.20	5.26400	32.30	0.00	6.37	7.28	0.00	2.67	0.13	32.63	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.10	5.26679	32.30	0.00	6.37	7.27	0.00	2.67	0.13	32.52	0.71	0.09	0.00	0.00	0.00	0.38	3.25
3.00	5.26959	32.30	0.00	6.38	7.25	0.00	2.67	0.13	32.41	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.90	5.27238	32.30	0.00	6.38	7.24	0.00	2.67	0.13	32.30	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.80	5.27517	32.30	0.00	6.39	7.23	0.00	2.66	0.13	32.19	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.70	5.27797	32.30	0.00	6.39	7.22	0.00	2.66	0.13	32.08	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.60	5.28076	32.30	0.00	6.40	7.21	0.00	2.66	0.13	31.97	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.50	5.28355	32.30	0.00	6.40	7.20	0.00	2.66	0.13	31.86	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.40	5.28635	32.30	0.00	6.41	7.19	0.00	2.66	0.13	31.75	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.30	5.28914	32.30	0.00	6.41	7.18	0.00	2.65	0.13	31.64	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.20	5.29193	32.30	0.00	6.41	7.17	0.00	2.65	0.13	31.53	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.10	5.29473	32.30	0.00	6.42	7.15	0.00	2.65	0.13	31.42	0.71	0.09	0.00	0.00	0.00	0.38	3.25
2.00	5.29752	32.30	0.00	6.42	7.14	0.00	2.65	0.13	31.32	0.71	0.09	0.00	0.00	0.00	0.38	3.25
1.90	5.30031	32.30	0.00	6.42	7.13	0.00	2.64	0.13	31.21	0.71	0.09	0.00	0.00	0.00	0.38	3.25
1.80	5.30311	32.30	0.00	6.42	7.12	0.00	2.64	0.13	31.10	0.71	0.09	0.00	0.00	0.00	0.38	3.25
1.70	5.30590	32.30	0.00	6.43	7.11	0.00	2.64	0.13	30.99	0.71	0.09	0.00	0.00	0.00	0.38	3.25
1.60	5.30869	32.30	0.00	6.43	7.10	0.00	2.64	0.13	30.88	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.50	5.31149	32.30	0.00	6.43	7.09	0.00	2.64	0.13	30.77	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.40	5.31428	32.30	0.00	6.43	7.08	0.00	2.63	0.13	30.66	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.30	5.31707	32.30	0.00	6.43	7.07	0.00	2.63	0.13	30.55	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.20	5.31987	32.30	0.00	6.44	7.06	0.00	2.63	0.14	30.44	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.10	5.32266	32.30	0.00	6.44	7.05	0.00	2.63	0.14	30.33	0.72	0.09	0.00	0.00	0.00	0.38	3.25
1.00	5.32545	32.30	0.00	6.44	7.03	0.00	2.62	0.14	30.22	0.72	0.09	0.00	0.00	0.00	0.38	3.25
0.90	5.32825	32.30	0.00	6.44	7.02	0.00	2.62	0.14	30.11	0.72	0.09	0.00	0.00	0.00	0.38	3.25
0.80	5.33104	32.30	0.00	6.44	7.01	0.00	2.62	0.14	30.00	0.72	0.09	0.00	0.00	0.00	0.38	3.25
0.70	5.33423	32.30	0.00	6.44	7.00	0.00	2.62	0.14	29.25	0.72	0.09	0.00	0.00	0.00	0.38	3.25

0.60	5.33741	32.30	0.00	6.44	6.99	0.00	2.61	0.14	28.50	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.50	5.34060	32.30	0.00	6.43	6.98	0.00	2.61	0.14	27.75	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.40	5.34379	32.30	0.00	6.43	6.97	0.00	2.61	0.14	27.00	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.30	5.34698	32.30	0.00	6.42	6.96	0.00	2.61	0.14	26.25	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.20	5.35016	32.30	0.00	6.42	6.95	0.00	2.61	0.14	25.50	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.10	5.35335	32.30	0.00	6.41	6.94	0.00	2.60	0.14	24.75	0.72	0.09	0.00	0.00	0.00	0.38	3.25								
0.00	5.35654	32.30	0.00	6.39	6.98	0.00	2.59	0.14	24.00	0.72	0.09	0.00	0.00	0.00	0.38	3.25								

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

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	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	17.387	30.0	0.0	6.2	16.1	0.0	1.6	0.1	70.0												
1	1	1	35.00	17.381	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.2	0.6	1.00	135.0	0.129	0.129	7.4	1.733	0.20	0.00	0.00	0.00	0.35	5.07
2	1	1	34.90	17.375	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.3	0.6	1.00	135.0	0.129	0.129	7.4	1.733	0.20	0.00	0.00	0.00	0.35	5.07
3	1	1	34.80	17.368	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.5	0.6	1.00	135.0	0.129	0.129	7.4	1.733	0.20	0.00	0.00	0.00	0.35	5.08
4	1	1	34.70	17.362	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.6	0.6	1.00	135.0	0.129	0.129	7.4	1.734	0.20	0.00	0.00	0.00	0.35	5.08
5	1	1	34.60	17.356	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.8	0.6	1.00	135.0	0.129	0.129	7.4	1.734	0.20	0.00	0.00	0.00	0.35	5.09
6	1	1	34.50	17.350	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.9	0.6	1.00	135.0	0.129	0.129	7.4	1.734	0.20	0.00	0.00	0.00	0.35	5.10
7	1	1	34.40	17.344	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.1	0.6	1.00	135.0	0.128	0.128	7.4	1.734	0.20	0.00	0.00	0.00	0.35	5.10
8	1	1	34.30	17.338	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.2	0.6	1.00	135.0	0.128	0.128	7.4	1.735	0.20	0.00	0.00	0.00	0.35	5.11
9	1	1	34.20	17.332	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.4	0.6	1.00	135.0	0.128	0.128	7.4	1.735	0.20	0.00	0.00	0.00	0.35	5.11
10	1	1	34.10	17.326	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.5	0.6	1.00	135.0	0.128	0.128	7.4	1.735	0.20	0.00	0.00	0.00	0.35	5.12
11	1	1	34.00	17.320	31.4	0.0	6.1	16.1	0.0	1.6	0.1	71.7	0.6	1.00	135.0	0.128	0.128	7.4	1.735	0.20	0.00	0.00	0.00	0.35	5.13
12	1	1	33.90	17.314	31.4	0.0	6.1	16.1	0.0	1.6	0.1	71.8	0.6	1.00	135.0	0.128	0.128	7.4	1.735	0.20	0.00	0.00	0.00	0.36	5.13
13	1	1	33.80	17.308	31.4	0.0	6.1	16.1	0.0	1.6	0.1	72.0	0.6	1.00	135.0	0.128	0.128	7.4	1.736	0.20	0.00	0.00	0.00	0.36	5.14
14	1	1	33.70	17.302	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.1	0.6	1.00	135.0	0.128	0.128	7.4	1.736	0.20	0.00	0.00	0.00	0.36	5.14
15	1	1	33.60	17.296	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.3	0.6	1.00	135.0	0.128	0.128	7.4	1.736	0.20	0.00	0.00	0.00	0.36	5.15
16	1	1	33.50	17.290	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.4	0.6	1.00	135.0	0.128	0.128	7.4	1.736	0.20	0.00	0.00	0.00	0.36	5.15
17	1	1	33.40	17.284	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.6	0.6	1.00	135.0	0.128	0.128	7.4	1.737	0.20	0.00	0.00	0.00	0.36	5.16
18	1	1	33.30	17.278	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.7	0.6	1.00	135.0	0.128	0.128	7.4	1.737	0.20	0.00	0.00	0.00	0.36	5.17
19	1	1	33.20	17.272	31.5	0.0	6.1	16.1	0.0	1.6	0.1	72.9	0.6	1.00	135.0	0.128	0.128	7.4	1.737	0.20	0.00	0.00	0.00	0.36	5.17
20	1	1	33.10	17.265	31.6	0.0	6.1	16.1	0.0	1.6	0.1	73.0	0.6	1.00	135.0	0.128	0.128	7.4	1.737	0.20	0.00	0.00	0.00	0.36	5.18
21	1	1	33.00	17.259	31.6	0.0	6.1	16.1	0.0	1.6	0.1	73.2	0.6	1.00	135.0	0.128	0.128	7.4	1.738	0.20	0.00	0.00	0.00	0.36	5.18
22	1	1	32.90	17.253	31.6	0.0	6.1	16.1	0.0	1.6	0.1	73.3	0.6	1.00	135.0	0.128	0.128	7.4	1.738	0.20	0.00	0.00	0.00	0.36	5.19
23	1	1	32.80	17.247	31.6	0.0	6.1	16.1	0.0	1.6	0.1	73.5	0.6	1.00	135.0	0.128	0.128	7.4	1.738	0.20	0.00	0.00	0.00	0.36	5.20
24	1	1	32.70	17.241	31.6	0.0	6.1	16.1	0.0	1.6	0.1	73.6	0.6	1.00	135.0	0.128	0.128	7.3	1.738	0.20	0.00	0.00	0.00	0.36	5.20
25	1	1	32.60	17.235	31.7	0.0	6.1	16.1	0.0	1.6	0.1	73.8	0.6	1.00	135.0	0.128	0.128	7.3	1.738	0.20	0.00	0.00	0.00	0.36	5.21
26	1	1	32.50	17.229	31.7	0.0	6.1	16.1	0.0	1.6	0.1	73.9	0.6	1.00	135.0	0.128	0.128	7.3	1.739	0.21	0.00	0.00	0.00	0.36	5.21
27	1	1	32.40	17.223	31.7	0.0	6.1	16.1	0.0	1.6	0.1	74.1	0.6	1.00	135.0	0.128	0.128	7.3	1.739	0.21	0.00	0.00	0.00	0.36	5.22
28	1	1	32.30	17.217	31.7	0.0	6.1	16.1	0.0	1.6	0.1	74.2	0.6	1.00	135.0	0.128	0.128	7.3	1.739	0.21	0.00	0.00	0.00	0.36	5.23
29	1	1	32.20	17.211	31.7	0.0	6.1	16.1	0.0	1.6	0.1	74.4	0.6	1.00	135.0	0.127	0.127	7.3	1.739	0.21	0.00	0.00	0.00	0.36	5.23
30	1	1	32.10	17.205	31.7	0.0	6.1	16.1	0.0	1.6	0.1	74.5	0.6	1.00	135.0	0.127	0.127	7.3	1.740	0.21	0.00	0.00	0.00	0.36	5.24
31	1	1	32.00	17.199	31.8	0.0	6.1	16.1	0.0	1.6	0.1	74.7	0.6	1.00	135.0	0.127	0.127	7.3	1.740	0.21	0.00	0.00	0.00	0.36	5.24
32	1	1	31.90	17.193	31.8	0.0	6.1	16.1	0.0	1.6	0.1	74.8	0.6	1.00	135.0	0.127	0.127	7.3	1.740	0.21	0.00	0.00	0.00	0.37	5.25
33	1	1	31.80	17.187	31.8	0.0	6.1	16.1	0.0	1.6	0.1	75.0	0.6	1.00	135.0	0.127	0.127	7.3	1.740	0.21	0.00	0.00	0.00	0.37	5.26
34	2	2	31.70	17.185	31.8	0.0	6.1	16.1	0.0	1.6	0.1	75.0	0.5	1.00	110.0	0.156	0.156	7.3	1.928	0.21	0.00	0.00	0.00	0.37	5.68
35	2	2	31.60	17.184	31.8	0.0	6.1	16.2	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.156	0.156	7.3	1.928	0.21	0.00	0.00	0.00	0.37	5.68
36	2	2	31.50	17.182	31.8	0.0	6.1	16.2	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.156	0.156	7.3	1.928	0.21	0.00	0.00	0.00	0.37	5.68
37	2	2	31.40	17.180	31.8	0.0	6.1	16.3	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.156	0.156	7.3	1.928	0.21	0.00	0.00	0.00	0.37	5.68
38	2	2	31.30	17.179	31.8	0.0	6.1	16.3	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.156	0.156	7.3	1.928	0.21	0.00	0.00	0.00	0.37	5.68

39	2	2	31.20	17.177	31.8	0.0	6.1	16.4	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
40	2	2	31.10	17.176	31.8	0.0	6.0	16.5	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
41	2	2	31.00	17.174	31.8	0.0	6.0	16.5	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
42	2	2	30.90	17.172	31.8	0.0	6.0	16.6	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
43	2	2	30.80	17.171	31.8	0.0	6.0	16.6	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
44	2	2	30.70	17.169	31.8	0.0	6.0	16.7	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
45	2	2	30.60	17.168	31.8	0.0	6.0	16.7	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.37	5.68
46	2	2	30.50	17.166	31.8	0.0	6.0	16.8	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.36	5.68
47	2	2	30.40	17.165	31.8	0.0	6.0	16.8	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.36	5.68
48	2	2	30.30	17.163	31.8	0.0	6.0	16.9	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.36	5.68
49	2	2	30.20	17.161	31.8	0.0	6.0	16.9	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.156	0.156	7.3	1.927	0.21	0.00	0.00	0.00	0.36	5.68
50	2	2	30.10	17.160	31.8	0.0	6.0	17.0	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
51	2	2	30.00	17.158	31.8	0.0	6.0	17.0	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
52	2	2	29.90	17.157	31.8	0.0	6.0	17.1	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
53	2	2	29.80	17.155	31.8	0.0	6.0	17.1	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
54	2	2	29.70	17.154	31.8	0.0	6.0	17.2	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
55	2	2	29.60	17.152	31.8	0.0	6.0	17.2	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
56	2	2	29.50	17.150	31.8	0.0	6.0	17.3	0.0	1.7	0.1	75.9	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
57	2	2	29.40	17.149	31.8	0.0	6.0	17.3	0.0	1.7	0.1	75.9	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
58	2	2	29.30	17.147	31.8	0.0	6.0	17.4	0.0	1.7	0.1	76.0	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
59	2	2	29.20	17.146	31.8	0.0	6.0	17.4	0.0	1.7	0.1	76.0	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
60	2	2	29.10	17.144	31.8	0.0	6.0	17.4	0.0	1.7	0.1	76.1	0.5	1.00	110.0	0.156	0.156	7.3	1.926	0.21	0.00	0.00	0.00	0.36	5.68
61	2	2	29.00	17.143	31.8	0.0	6.0	17.5	0.0	1.7	0.1	76.1	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
62	2	2	28.90	17.141	31.8	0.0	6.0	17.5	0.0	1.7	0.1	76.1	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
63	2	2	28.80	17.139	31.8	0.0	5.9	17.6	0.0	1.7	0.1	76.2	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
64	2	2	28.70	17.138	31.8	0.0	5.9	17.6	0.0	1.7	0.1	76.2	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
65	2	2	28.60	17.136	31.8	0.0	5.9	17.7	0.0	1.7	0.1	76.3	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
66	2	2	28.50	17.135	31.8	0.0	5.9	17.7	0.0	1.7	0.1	76.3	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
67	2	2	28.40	17.133	31.8	0.0	5.9	17.8	0.0	1.7	0.1	76.3	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
68	2	2	28.30	17.132	31.8	0.0	5.9	17.8	0.0	1.7	0.1	76.4	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
69	2	2	28.20	17.130	31.8	0.0	5.9	17.9	0.0	1.7	0.1	76.4	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
70	2	2	28.10	17.128	31.8	0.0	5.9	17.9	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
71	2	2	28.00	17.127	31.8	0.0	5.9	18.0	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
72	2	2	27.90	17.125	31.8	0.0	5.9	18.0	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.156	0.156	7.3	1.925	0.21	0.00	0.00	0.00	0.36	5.68
73	2	2	27.80	17.124	31.8	0.0	5.9	18.1	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
74	2	2	27.70	17.122	31.8	0.0	5.9	18.1	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
75	2	2	27.60	17.121	31.8	0.0	5.9	18.1	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
76	2	2	27.50	17.119	31.8	0.0	5.9	18.2	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
77	2	2	27.40	17.117	31.8	0.0	5.9	18.2	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
78	2	2	27.30	17.116	31.8	0.0	5.9	18.3	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
79	2	2	27.20	17.114	31.8	0.0	5.9	18.3	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
80	2	2	27.10	17.113	31.8	0.0	5.9	18.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
81	2	2	27.00	17.111	31.8	0.0	5.9	18.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
82	2	2	26.90	17.109	31.8	0.0	5.9	18.5	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
83	2	2	26.80	17.108	31.8	0.0	5.9	18.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.156	0.156	7.3	1.924	0.21	0.00	0.00	0.00	0.36	5.68
84	2	2	26.70	17.106	31.8	0.0	5.9	18.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.156	0.156	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68

85	2	2	26.60	17.105	31.8	0.0	5.9	18.6	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
86	2	2	26.50	17.103	31.8	0.0	5.9	18.6	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
87	2	2	26.40	17.102	31.8	0.0	5.9	18.7	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
88	2	2	26.30	17.100	31.8	0.0	5.9	18.7	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
89	2	2	26.20	17.098	31.8	0.0	5.8	18.8	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
90	2	2	26.10	17.097	31.8	0.0	5.8	18.8	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
91	2	2	26.00	17.095	31.8	0.0	5.8	18.8	0.0	1.8	0.1	77.3	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
92	2	2	25.90	17.094	31.8	0.0	5.8	18.9	0.0	1.8	0.1	77.3	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
93	2	2	25.80	17.092	31.8	0.0	5.8	18.9	0.0	1.8	0.1	77.4	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
94	2	2	25.70	17.091	31.8	0.0	5.8	19.0	0.0	1.8	0.1	77.4	0.5	1.00	110.0	0.155	0.155	7.3	1.923	0.21	0.00	0.00	0.00	0.36	5.68
95	2	2	25.60	17.089	31.8	0.0	5.8	19.0	0.0	1.8	0.1	77.4	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
96	2	2	25.50	17.087	31.8	0.0	5.8	19.1	0.0	1.8	0.1	77.5	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
97	2	2	25.40	17.086	31.8	0.0	5.8	19.1	0.0	1.8	0.1	77.5	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
98	2	2	25.30	17.084	31.8	0.0	5.8	19.1	0.0	1.8	0.1	77.6	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
99	2	2	25.20	17.083	31.8	0.0	5.8	19.2	0.0	1.8	0.1	77.6	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
100	2	2	25.10	17.081	31.8	0.0	5.8	19.2	0.0	1.8	0.1	77.6	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
101	2	2	25.00	17.080	31.8	0.0	5.8	19.3	0.0	1.8	0.1	77.7	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
102	2	2	24.90	17.078	31.8	0.0	5.8	19.3	0.0	1.8	0.1	77.7	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
103	2	2	24.80	17.076	31.8	0.0	5.8	19.4	0.0	1.8	0.1	77.8	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
104	2	2	24.70	17.075	31.8	0.0	5.8	19.4	0.0	1.8	0.1	77.8	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
105	2	2	24.60	17.073	31.8	0.0	5.8	19.4	0.0	1.8	0.1	77.8	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
106	2	2	24.50	17.072	31.8	0.0	5.8	19.5	0.0	1.8	0.1	77.9	0.5	1.00	110.0	0.155	0.155	7.3	1.922	0.21	0.00	0.00	0.00	0.36	5.68
107	2	2	24.40	17.070	31.8	0.0	5.8	19.5	0.0	1.8	0.1	77.9	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
108	2	2	24.30	17.069	31.8	0.0	5.8	19.6	0.0	1.8	0.1	78.0	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
109	2	2	24.20	17.067	31.8	0.0	5.8	19.6	0.0	1.8	0.1	78.0	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
110	2	2	24.10	17.065	31.8	0.0	5.8	19.6	0.0	1.8	0.1	78.0	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
111	2	2	24.00	17.064	31.8	0.0	5.8	19.7	0.0	1.8	0.1	78.1	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
112	2	2	23.90	17.062	31.8	0.0	5.8	19.7	0.0	1.8	0.1	78.1	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
113	2	2	23.80	17.061	31.8	0.0	5.8	19.8	0.0	1.8	0.1	78.1	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
114	2	2	23.70	17.059	31.8	0.0	5.8	19.8	0.0	1.8	0.1	78.2	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
115	2	2	23.60	17.057	31.8	0.0	5.8	19.8	0.0	1.8	0.1	78.2	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
116	2	2	23.50	17.056	31.8	0.0	5.8	19.9	0.0	1.8	0.1	78.3	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
117	2	2	23.40	17.054	31.8	0.0	5.8	19.9	0.0	1.8	0.1	78.3	0.5	1.00	110.0	0.155	0.155	7.3	1.921	0.21	0.00	0.00	0.00	0.36	5.68
118	2	2	23.30	17.053	31.8	0.0	5.8	19.9	0.0	1.8	0.1	78.3	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
119	2	2	23.20	17.051	31.8	0.0	5.7	20.0	0.0	1.8	0.1	78.4	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
120	2	2	23.10	17.050	31.8	0.0	5.7	20.0	0.0	1.8	0.1	78.4	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
121	2	2	23.00	17.048	31.8	0.0	5.7	20.1	0.0	1.8	0.1	78.5	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
122	2	2	22.90	17.046	31.8	0.0	5.7	20.1	0.0	1.8	0.1	78.5	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
123	2	2	22.80	17.045	31.8	0.0	5.7	20.1	0.0	1.8	0.1	78.5	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
124	2	2	22.70	17.043	31.8	0.0	5.7	20.2	0.0	1.8	0.1	78.6	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
125	2	2	22.60	17.042	31.8	0.0	5.7	20.2	0.0	1.8	0.1	78.6	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
126	2	2	22.50	17.040	31.8	0.0	5.7	20.3	0.0	1.8	0.1	78.7	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
127	2	2	22.40	17.039	31.8	0.0	5.7	20.3	0.0	1.8	0.1	78.7	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
128	2	2	22.30	17.037	31.8	0.0	5.7	20.3	0.0	1.9	0.1	78.7	0.5	1.00	110.0	0.155	0.155	7.3	1.920	0.21	0.00	0.00	0.00	0.36	5.68
129	2	2	22.20	17.035	31.8	0.0	5.7	20.4	0.0	1.9	0.1	78.8	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
130	2	2	22.10	17.034	31.8	0.0	5.7	20.4	0.0	1.9	0.1	78.8	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
131	2	2	22.00	17.032	31.8	0.0	5.7	20.4	0.0	1.9	0.1	78.9	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
132	2	2	21.90	17.031	31.8	0.0	5.7	20.5	0.0	1.9	0.1	78.9	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
133	2	2	21.80	17.029	31.8	0.0	5.7	20.5	0.0	1.9	0.1	78.9	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
134	2	2	21.70	17.028	31.8	0.0	5.7	20.5	0.0	1.9	0.1	79.0	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68

135	2	2	21.60	17.026	31.8	0.0	5.7	20.6	0.0	1.9	0.1	79.0	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
136	2	2	21.50	17.024	31.8	0.0	5.7	20.6	0.0	1.9	0.1	79.1	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
137	2	2	21.40	17.023	31.8	0.0	5.7	20.7	0.0	1.9	0.1	79.1	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
138	2	2	21.30	17.021	31.8	0.0	5.7	20.7	0.0	1.9	0.1	79.1	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
139	2	2	21.20	17.020	31.8	0.0	5.7	20.7	0.0	1.9	0.1	79.2	0.5	1.00	110.0	0.155	0.155	7.3	1.919	0.21	0.00	0.00	0.00	0.36	5.68
140	2	2	21.10	17.018	31.8	0.0	5.7	20.8	0.0	1.9	0.1	79.2	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
141	2	2	21.00	17.017	31.8	0.0	5.7	20.8	0.0	1.9	0.1	79.3	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
142	2	2	20.90	17.015	31.8	0.0	5.7	20.8	0.0	1.9	0.1	79.3	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
143	2	2	20.80	17.013	31.8	0.0	5.7	20.9	0.0	1.9	0.1	79.3	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
144	2	2	20.70	17.012	31.8	0.0	5.7	20.9	0.0	1.9	0.1	79.4	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
145	2	2	20.60	17.010	31.8	0.0	5.7	20.9	0.0	1.9	0.1	79.4	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
146	2	2	20.50	17.009	31.8	0.0	5.7	21.0	0.0	1.9	0.1	79.4	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
147	2	2	20.40	17.007	31.8	0.0	5.7	21.0	0.0	1.9	0.1	79.5	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
148	2	2	20.30	17.005	31.8	0.0	5.7	21.0	0.0	1.9	0.1	79.5	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
149	2	2	20.20	17.004	31.8	0.0	5.7	21.1	0.0	1.9	0.1	79.6	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
150	2	2	20.10	17.002	31.8	0.0	5.7	21.1	0.0	1.9	0.1	79.6	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
151	2	2	20.00	17.001	31.8	0.0	5.7	21.1	0.0	1.9	0.1	79.6	0.5	1.00	110.0	0.155	0.155	7.3	1.918	0.21	0.00	0.00	0.00	0.36	5.68
152	2	2	19.90	16.999	31.8	0.0	5.7	21.2	0.0	1.9	0.1	79.7	0.5	1.00	110.0	0.155	0.155	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
153	2	2	19.80	16.998	31.8	0.0	5.7	21.2	0.0	1.9	0.1	79.7	0.5	1.00	110.0	0.155	0.155	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
154	2	2	19.70	16.996	31.8	0.0	5.6	21.2	0.0	1.9	0.1	79.8	0.5	1.00	110.0	0.155	0.155	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
155	2	2	19.60	16.994	31.8	0.0	5.6	21.3	0.0	1.9	0.1	79.8	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
156	2	2	19.50	16.993	31.8	0.0	5.6	21.3	0.0	1.9	0.1	79.8	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
157	2	2	19.40	16.991	31.8	0.0	5.6	21.3	0.0	1.9	0.1	79.9	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
158	2	2	19.30	16.990	31.8	0.0	5.6	21.4	0.0	1.9	0.1	79.9	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
159	2	2	19.20	16.988	31.8	0.0	5.6	21.4	0.0	1.9	0.1	80.0	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
160	2	2	19.10	16.987	31.8	0.0	5.6	21.4	0.0	1.9	0.1	80.0	0.5	1.00	110.0	0.154	0.154	7.3	1.917	0.21	0.00	0.00	0.00	0.36	5.68
DIVERSION # 161 (TRIB 1 OUTFLOW) LEAVES HERE																									
161	3	3	19.00	13.226	31.8	0.0	5.7	21.4	0.0	1.9	0.1	79.6	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
162	3	3	18.90	13.222	31.8	0.0	5.7	21.4	0.0	1.9	0.1	79.2	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
163	3	3	18.80	13.218	31.8	0.0	5.8	21.3	0.0	1.9	0.1	78.8	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
164	3	3	18.70	13.214	31.8	0.0	5.8	21.3	0.0	1.9	0.1	78.5	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
165	3	3	18.60	13.211	31.8	0.0	5.9	21.3	0.0	1.9	0.1	78.1	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
166	3	3	18.50	13.207	31.8	0.0	5.9	21.2	0.0	1.9	0.1	77.7	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
167	3	3	18.40	13.203	31.8	0.0	6.0	21.2	0.0	1.9	0.1	77.3	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.36	3.15
168	3	3	18.30	13.199	31.8	0.0	6.0	21.2	0.0	1.9	0.1	76.9	0.4	1.77	90.0	0.083	0.083	7.3	0.598	0.09	0.00	0.00	0.00	0.37	3.15
169	3	3	18.20	13.195	31.8	0.0	6.1	21.1	0.0	1.9	0.1	76.5	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
170	3	3	18.10	13.191	31.8	0.0	6.1	21.1	0.0	1.9	0.1	76.2	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
171	3	3	18.00	13.187	31.8	0.0	6.2	21.1	0.0	1.9	0.1	75.8	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
172	3	3	17.90	13.184	31.8	0.0	6.2	21.0	0.0	1.9	0.1	75.4	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
173	3	3	17.80	13.180	31.8	0.0	6.3	21.0	0.0	1.9	0.1	75.0	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
174	3	3	17.70	13.176	31.8	0.0	6.3	21.0	0.0	1.9	0.1	74.6	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
175	3	3	17.60	13.172	31.8	0.0	6.4	20.9	0.0	1.9	0.1	74.2	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
176	3	3	17.50	13.168	31.8	0.0	6.4	20.9	0.0	1.9	0.1	73.8	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
177	3	3	17.40	13.164	31.8	0.0	6.5	20.9	0.0	1.9	0.1	73.5	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
178	3	3	17.30	13.161	31.8	0.0	6.5	20.8	0.0	1.9	0.1	73.1	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
179	3	3	17.20	13.157	31.8	0.0	6.5	20.8	0.0	1.9	0.1	72.7	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15

180	3	3	17.10	13.153	31.8	0.0	6.6	20.8	0.0	1.9	0.1	72.3	0.4	1.77	90.0	0.083	0.083	7.3	0.597	0.09	0.00	0.00	0.00	0.37	3.15
181	3	3	17.00	13.149	31.8	0.0	6.6	20.7	0.0	1.9	0.1	71.9	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
182	3	3	16.90	13.145	31.8	0.0	6.7	20.7	0.0	1.9	0.1	71.5	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
183	3	3	16.80	13.141	31.8	0.0	6.7	20.7	0.0	1.9	0.1	71.2	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
184	3	3	16.70	13.137	31.8	0.0	6.7	20.7	0.0	1.9	0.1	70.8	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
185	3	3	16.60	13.134	31.8	0.0	6.8	20.6	0.0	1.9	0.1	70.4	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
186	3	3	16.50	13.130	31.8	0.0	6.8	20.6	0.0	1.9	0.1	70.0	0.4	1.77	90.0	0.083	0.083	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
187	3	3	16.40	13.126	31.8	0.0	6.8	20.6	0.0	1.9	0.1	69.6	0.4	1.77	90.0	0.082	0.082	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
188	3	3	16.30	13.122	31.8	0.0	6.9	20.5	0.0	1.9	0.1	69.2	0.4	1.77	90.0	0.082	0.082	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
189	3	3	16.20	13.118	31.8	0.0	6.9	20.5	0.0	1.9	0.1	68.8	0.4	1.77	90.0	0.082	0.082	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
190	3	3	16.10	13.114	31.8	0.0	6.9	20.5	0.0	1.9	0.1	68.5	0.4	1.77	90.0	0.082	0.082	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
191	3	3	16.00	13.111	31.8	0.0	7.0	20.4	0.0	1.9	0.1	68.1	0.4	1.77	90.0	0.082	0.082	7.3	0.596	0.09	0.00	0.00	0.00	0.37	3.15
192	3	3	15.90	13.107	31.8	0.0	7.0	20.4	0.0	1.9	0.1	67.7	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.37	3.15
193	3	3	15.80	13.103	31.8	0.0	7.0	20.4	0.0	1.9	0.1	67.3	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
194	3	3	15.70	13.099	31.8	0.0	7.1	20.3	0.0	1.9	0.1	66.9	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
195	3	3	15.60	13.095	31.8	0.0	7.1	20.3	0.0	1.9	0.1	66.5	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
196	3	3	15.50	13.091	31.8	0.0	7.1	20.3	0.0	1.9	0.1	66.2	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
197	3	3	15.40	13.087	31.8	0.0	7.1	20.2	0.0	1.9	0.1	65.8	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
198	3	3	15.30	13.084	31.8	0.0	7.2	20.2	0.0	1.9	0.1	65.4	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
199	3	3	15.20	13.080	31.8	0.0	7.2	20.2	0.0	1.9	0.1	65.0	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
200	3	3	15.10	13.076	31.8	0.0	7.2	20.1	0.0	1.9	0.1	64.6	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
201	3	3	15.00	13.072	31.8	0.0	7.2	20.1	0.0	1.9	0.1	64.2	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
202	3	3	14.90	13.068	31.8	0.0	7.3	20.1	0.0	1.9	0.1	63.8	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
203	3	3	14.80	13.064	31.8	0.0	7.3	20.0	0.0	1.9	0.1	63.5	0.4	1.77	90.0	0.082	0.082	7.3	0.595	0.09	0.00	0.00	0.00	0.38	3.15
204	3	3	14.70	13.061	31.8	0.0	7.3	20.0	0.0	1.9	0.1	63.1	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
205	3	3	14.60	13.057	31.8	0.0	7.3	20.0	0.0	1.9	0.1	62.7	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
206	3	3	14.50	13.053	31.8	0.0	7.4	19.9	0.0	1.9	0.1	62.3	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
207	3	3	14.40	13.049	31.8	0.0	7.4	19.9	0.0	1.9	0.1	61.9	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
208	3	3	14.30	13.045	31.8	0.0	7.4	19.9	0.0	1.9	0.1	61.5	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
209	3	3	14.20	13.041	31.8	0.0	7.4	19.9	0.0	1.9	0.1	61.2	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
210	3	3	14.10	13.037	31.8	0.0	7.4	19.8	0.0	1.9	0.1	60.8	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
211	3	3	14.00	13.034	31.8	0.0	7.5	19.8	0.0	1.9	0.1	60.4	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
212	3	3	13.90	13.030	31.8	0.0	7.5	19.7	0.0	1.9	0.1	60.0	0.4	1.77	90.0	0.082	0.082	7.3	0.594	0.09	0.00	0.00	0.00	0.38	3.15
WASTELOAD # 213 (TRIB 2 INFLOW) ENTERS HERE																									
213	4	4	13.80	14.724	31.8	0.0	7.2	17.8	0.0	1.9	0.1	59.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
214	4	4	13.70	14.719	31.8	0.0	7.3	17.8	0.0	1.9	0.1	59.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
215	4	4	13.60	14.714	31.8	0.0	7.3	17.8	0.0	1.9	0.1	58.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
216	4	4	13.50	14.709	31.8	0.0	7.3	17.7	0.0	1.9	0.1	58.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
217	4	4	13.40	14.704	31.8	0.0	7.3	17.7	0.0	1.9	0.1	57.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
218	4	4	13.30	14.699	31.8	0.0	7.4	17.6	0.0	1.9	0.1	57.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
219	4	4	13.20	14.694	31.8	0.0	7.4	17.6	0.0	1.9	0.1	56.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

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	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
220	4	4	13.10	14.689	31.8	0.0	7.4	17.6	0.0	1.9	0.1	56.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
221	4	4	13.00	14.684	31.8	0.0	7.5	17.5	0.0	1.9	0.1	55.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
222	4	4	12.90	14.679	31.8	0.0	7.5	17.5	0.0	1.9	0.1	55.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
223	4	4	12.80	14.674	31.8	0.0	7.5	17.4	0.0	1.9	0.1	54.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
224	4	4	12.70	14.669	31.8	0.0	7.5	17.4	0.0	1.9	0.1	54.0	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

225	4	4	12.60	14.664	31.8	0.0	7.5	17.4	0.0	1.9	0.1	53.5	0.3	1.77	155.0	0.054	0.054	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
226	4	4	12.50	14.659	31.8	0.0	7.6	17.3	0.0	1.9	0.1	53.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
227	4	4	12.40	14.654	31.8	0.0	7.6	17.3	0.0	1.9	0.1	52.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
228	4	4	12.30	14.649	31.8	0.0	7.6	17.2	0.0	1.9	0.1	52.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
229	4	4	12.20	14.644	31.8	0.0	7.6	17.2	0.0	1.9	0.1	51.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
230	4	4	12.10	14.639	31.8	0.0	7.6	17.2	0.0	1.9	0.1	51.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
231	4	4	12.00	14.634	31.8	0.0	7.6	17.1	0.0	1.9	0.1	50.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
232	4	4	11.90	14.629	31.8	0.0	7.7	17.1	0.0	1.9	0.1	50.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
233	4	4	11.80	14.624	31.8	0.0	7.7	17.1	0.0	1.9	0.1	49.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
234	4	4	11.70	14.619	31.8	0.0	7.7	17.0	0.0	1.9	0.1	49.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
235	4	4	11.60	14.614	31.8	0.0	7.7	17.0	0.0	1.9	0.1	48.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
236	4	4	11.50	14.609	31.8	0.0	7.7	16.9	0.0	1.8	0.1	48.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
237	4	4	11.40	14.604	31.8	0.0	7.7	16.9	0.0	1.8	0.1	47.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
238	4	4	11.30	14.599	31.8	0.0	7.7	16.9	0.0	1.8	0.1	47.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
239	4	4	11.20	14.594	31.8	0.0	7.7	16.8	0.0	1.8	0.1	46.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
240	4	4	11.10	14.589	31.8	0.0	7.7	16.8	0.0	1.8	0.1	46.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
241	4	4	11.00	14.584	31.8	0.0	7.7	16.8	0.0	1.8	0.1	45.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
242	4	4	10.90	14.579	31.8	0.0	7.7	16.7	0.0	1.8	0.1	45.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
243	4	4	10.80	14.574	31.8	0.0	7.7	16.7	0.0	1.8	0.1	44.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
244	4	4	10.70	14.569	31.8	0.0	7.7	16.6	0.0	1.8	0.1	44.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
245	4	4	10.60	14.564	31.8	0.0	7.7	16.6	0.0	1.8	0.1	43.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
246	4	4	10.50	14.559	31.8	0.0	7.7	16.6	0.0	1.8	0.1	43.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
247	4	4	10.40	14.554	31.8	0.0	7.7	16.5	0.0	1.8	0.1	42.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
248	4	4	10.30	14.549	31.8	0.0	7.7	16.5	0.0	1.8	0.1	42.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
249	4	4	10.20	14.544	31.8	0.0	7.7	16.5	0.0	1.8	0.1	41.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
250	4	4	10.10	14.539	31.8	0.0	7.7	16.4	0.0	1.8	0.1	41.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
251	4	4	10.00	14.534	31.8	0.0	7.7	16.4	0.0	1.8	0.1	40.5	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
252	4	4	9.90	14.529	31.8	0.0	7.7	16.4	0.0	1.8	0.1	40.0	0.3	1.77	155.0	0.053	0.053	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
DIVERSION # 253 (TRIB 3 OUTFLOW) LEAVES HERE																									
253	5	5	9.80	5.314	31.8	0.0	7.7	16.3	0.0	1.8	0.1	39.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
254	5	5	9.70	5.311	31.8	0.0	7.7	16.3	0.0	1.8	0.1	39.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
255	5	5	9.60	5.308	31.8	0.0	7.7	16.2	0.0	1.8	0.1	39.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
256	5	5	9.50	5.305	31.8	0.0	7.7	16.2	0.0	1.8	0.1	39.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
257	5	5	9.40	5.301	31.8	0.0	7.7	16.1	0.0	1.8	0.1	38.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
258	5	5	9.30	5.298	31.8	0.0	7.7	16.0	0.0	1.8	0.1	38.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
259	5	5	9.20	5.295	31.8	0.0	7.7	16.0	0.0	1.8	0.1	38.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
260	5	5	9.10	5.292	31.8	0.0	7.6	15.9	0.0	1.8	0.1	38.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
261	5	5	9.00	5.289	31.8	0.0	7.6	15.9	0.0	1.8	0.1	37.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
262	5	5	8.90	5.286	31.8	0.0	7.6	15.8	0.0	1.8	0.1	37.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
263	5	5	8.80	5.282	31.8	0.0	7.6	15.8	0.0	1.8	0.1	37.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
264	5	5	8.70	5.279	31.8	0.0	7.6	15.7	0.0	1.8	0.1	37.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
265	5	5	8.60	5.276	31.8	0.0	7.6	15.7	0.0	1.8	0.1	36.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
266	5	5	8.50	5.273	31.8	0.0	7.6	15.6	0.0	1.8	0.1	36.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
267	5	5	8.40	5.270	31.8	0.0	7.5	15.5	0.0	1.8	0.1	36.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
268	5	5	8.30	5.267	31.8	0.0	7.5	15.5	0.0	1.8	0.1	35.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
269	5	5	8.20	5.263	31.8	0.0	7.5	15.4	0.0	1.8	0.1	35.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
270	5	5	8.10	5.260	31.8	0.0	7.5	15.4	0.0	1.8	0.1	35.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
271	5	5	8.00	5.257	31.8	0.0	7.5	15.3	0.0	1.8	0.1	35.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
272	5	5	7.90	5.254	31.8	0.0	7.5	15.3	0.0	1.8	0.1	34.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
273	5	5	7.80	5.251	31.8	0.0	7.5	15.2	0.0	1.8	0.1	34.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

274	5	5	7.70	5.247	31.8	0.0	7.4	15.2	0.0	1.8	0.1	34.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
275	5	5	7.60	5.244	31.8	0.0	7.4	15.1	0.0	1.8	0.1	34.2	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
276	5	5	7.50	5.241	31.8	0.0	7.4	15.1	0.0	1.8	0.1	33.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
277	5	5	7.40	5.238	31.8	0.0	7.4	15.0	0.0	1.8	0.1	33.7	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
278	5	5	7.30	5.235	31.8	0.0	7.4	15.0	0.0	1.8	0.1	33.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
279	5	5	7.20	5.232	31.8	0.0	7.4	14.9	0.0	1.8	0.1	33.1	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
280	5	5	7.10	5.228	31.8	0.0	7.3	14.8	0.0	1.8	0.1	32.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
281	5	5	7.00	5.225	31.8	0.0	7.3	14.8	0.0	1.8	0.1	32.6	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
282	5	5	6.90	5.222	31.8	0.0	7.3	14.7	0.0	1.8	0.1	32.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
283	5	5	6.80	5.219	31.8	0.0	7.3	14.7	0.0	1.8	0.1	32.1	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
284	5	5	6.70	5.216	31.8	0.0	7.3	14.6	0.0	1.8	0.1	31.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
285	5	5	6.60	5.213	31.8	0.0	7.2	14.6	0.0	1.8	0.1	31.6	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
286	5	5	6.50	5.209	31.8	0.0	7.2	14.5	0.0	1.7	0.1	31.4	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
287	5	5	6.40	5.206	31.8	0.0	7.2	14.5	0.0	1.7	0.1	31.1	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
288	5	5	6.30	5.203	31.8	0.0	7.2	14.4	0.0	1.7	0.1	30.9	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
289	5	5	6.20	5.200	31.8	0.0	7.2	14.4	0.0	1.7	0.1	30.6	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
290	5	5	6.10	5.197	31.8	0.0	7.1	14.3	0.0	1.7	0.1	30.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
291	5	5	6.00	5.193	31.8	0.0	7.1	14.3	0.0	1.7	0.1	30.1	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
292	5	5	5.90	5.190	31.8	0.0	7.1	14.2	0.0	1.7	0.1	29.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
293	5	5	5.80	5.187	31.8	0.0	7.1	14.2	0.0	1.7	0.1	29.6	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
294	5	5	5.70	5.184	31.8	0.0	7.1	14.1	0.0	1.7	0.1	29.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
295	5	5	5.60	5.181	31.8	0.0	7.0	14.1	0.0	1.7	0.1	29.1	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
296	5	5	5.50	5.178	31.8	0.0	7.0	14.0	0.0	1.7	0.1	28.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
297	5	5	5.40	5.174	31.8	0.0	7.0	14.0	0.0	1.7	0.1	28.6	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
298	5	5	5.30	5.171	31.8	0.0	7.0	13.9	0.0	1.7	0.1	28.3	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
299	5	5	5.20	5.168	31.8	0.0	6.9	13.9	0.0	1.7	0.1	28.1	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
300	5	5	5.10	5.165	31.8	0.0	6.9	13.8	0.0	1.7	0.1	27.8	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
301	5	5	5.00	5.162	31.8	0.0	6.9	13.8	0.0	1.7	0.1	27.6	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
302	5	5	4.90	5.159	31.8	0.0	6.9	13.7	0.0	1.7	0.1	27.3	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
303	5	5	4.80	5.155	31.8	0.0	6.8	13.7	0.0	1.7	0.1	27.0	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
304	5	5	4.70	5.152	31.8	0.0	6.8	13.7	0.0	1.7	0.1	26.8	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
305	5	5	4.60	5.149	31.8	0.0	6.8	13.6	0.0	1.7	0.1	26.5	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
306	5	5	4.50	5.146	31.8	0.0	6.8	13.6	0.0	1.7	0.1	26.3	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
307	5	5	4.40	5.143	31.8	0.0	6.7	13.5	0.0	1.7	0.1	26.0	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
308	5	5	4.30	5.140	31.8	0.0	6.7	13.5	0.0	1.7	0.1	25.8	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
309	5	5	4.20	5.136	31.8	0.0	6.7	13.4	0.0	1.7	0.1	25.5	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
310	5	5	4.10	5.133	31.8	0.0	6.7	13.4	0.0	1.7	0.1	25.3	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
311	5	5	4.00	5.130	31.8	0.0	6.6	13.3	0.0	1.7	0.1	25.0	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
312	5	5	3.90	5.127	31.8	0.0	6.6	13.3	0.0	1.7	0.1	24.8	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
313	5	5	3.80	5.124	31.8	0.0	6.6	13.2	0.0	1.7	0.1	24.5	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
314	5	5	3.70	5.120	31.8	0.0	6.6	13.2	0.0	1.7	0.1	24.3	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
315	5	5	3.60	5.117	31.8	0.0	6.5	13.1	0.0	1.7	0.1	24.0	0.3	1.77	90.0	0.032	0.032	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
316	6	6	3.50	5.111	31.8	0.0	6.5	13.1	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16
317	6	6	3.40	5.104	31.8	0.0	6.5	13.0	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16
318	6	6	3.30	5.097	31.8	0.0	6.5	13.0	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.16
319	6	6	3.20	5.091	31.9	0.0	6.4	12.9	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17

320	6	6	3.10	5.084	31.9	0.0	6.4	12.8	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
321	6	6	3.00	5.077	31.9	0.0	6.4	12.8	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
322	6	6	2.90	5.071	31.9	0.0	6.3	12.7	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
323	6	6	2.80	5.064	31.9	0.0	6.3	12.7	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
324	6	6	2.70	5.057	31.9	0.0	6.3	12.6	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
325	6	6	2.60	5.051	32.0	0.0	6.3	12.6	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
326	6	6	2.50	5.044	32.0	0.0	6.2	12.5	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
327	6	6	2.40	5.037	32.0	0.0	6.2	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
328	6	6	2.30	5.031	32.0	0.0	6.2	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
329	6	6	2.20	5.024	32.0	0.0	6.2	12.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
330	6	6	2.10	5.017	32.0	0.0	6.1	12.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
331	6	6	2.00	5.011	32.1	0.0	6.1	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.21
332	6	6	1.90	5.004	32.1	0.0	6.1	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
333	6	6	1.80	4.997	32.1	0.0	6.1	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
334	6	6	1.70	4.991	32.1	0.0	6.1	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
335	6	6	1.60	4.984	32.1	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.22
336	6	6	1.50	4.977	32.1	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.22
337	6	6	1.40	4.971	32.2	0.0	6.0	11.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
338	6	6	1.30	4.964	32.2	0.0	6.0	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
339	6	6	1.20	4.957	32.2	0.0	6.0	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
340	6	6	1.10	4.951	32.2	0.0	6.0	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
341	6	6	1.00	4.944	32.2	0.0	5.9	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
342	6	6	0.90	4.937	32.2	0.0	5.9	11.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
343	6	6	0.80	4.931	32.3	0.0	5.9	11.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
344	6	6	0.70	4.924	32.3	0.0	5.9	11.5	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
345	6	6	0.60	4.917	32.3	0.0	5.9	11.2	0.0	1.7	0.1	24.0	0.4	1.77	110.0	0.025	0.025	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25

TRIBUTARY # 346 (Station 935) ENTERS HERE

526	17	17	0.50	10.274	32.3	0.0	6.1	9.1	0.0	2.1	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.855	0.09	0.00	0.00	0.00	0.38	3.25
527	17	17	0.40	10.274	32.3	0.0	6.1	9.1	0.0	2.1	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.855	0.09	0.00	0.00	0.00	0.38	3.25
528	17	17	0.30	10.274	32.2	0.0	6.1	9.1	0.0	2.1	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.854	0.09	0.00	0.00	0.00	0.38	3.24
529	17	17	0.20	10.274	32.2	0.0	6.1	9.1	0.0	2.1	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.854	0.09	0.00	0.00	0.00	0.38	3.24
530	17	17	0.10	10.274	32.2	0.0	6.1	9.0	0.0	2.1	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.854	0.09	0.00	0.00	0.00	0.38	3.24
531	17	17	0.00	10.274	32.2	0.0	6.1	8.3	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.083	0.083	7.3	0.854	0.09	0.00	0.00	0.00	0.38	3.23

EXPANDED CAPSULE SUMMARY FOR Station 935

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	BOD2 DECA	NH3 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
346	7	7	17.90	0.038	31.5	0.0	4.9	2.9	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
347	7	7	17.80	0.038	31.5	0.0	4.9	2.5	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
348	7	7	17.70	0.038	31.4	0.0	4.9	2.2	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
349	7	7	17.60	0.038	31.4	0.0	5.0	1.9	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
350	7	7	17.50	0.038	31.4	0.0	5.0	1.6	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.07
351	7	7	17.40	0.038	31.4	0.0	5.1	1.4	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.07
352	7	7	17.30	0.038	31.3	0.0	5.1	1.2	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.487	0.08	0.00	0.00	0.00	0.23	3.06
353	7	7	17.20	0.038	31.3	0.0	5.2	1.0	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.487	0.08	0.00	0.00	0.00	0.23	3.06
354	7	7	17.10	0.038	31.3	0.0	5.2	0.9	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.487	0.08	0.00	0.00	0.00	0.23	3.06
355	7	7	17.00	0.038	31.3	0.0	5.3	0.8	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.487	0.08	0.00	0.00	0.00	0.23	3.05
356	7	7	16.90	0.038	31.2	0.0	5.3	0.7	0.0	0.5	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.487	0.08	0.00	0.00	0.00	0.23	3.05
357	7	7	16.80	0.038	31.2	0.0	5.3	0.6	0.0	0.5	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.486	0.08	0.00	0.00	0.00	0.23	3.04
358	7	7	16.70	0.038	31.2	0.0	5.4	0.5	0.0	0.5	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.486	0.08	0.00	0.00	0.00	0.23	3.04

359	7	7	16.60	0.038	31.2	0.0	5.4	0.4	0.0	0.5	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.486	0.08	0.00	0.00	0.00	0.23	3.03
360	7	7	16.50	0.038	31.2	0.0	5.4	0.4	0.0	0.4	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.486	0.08	0.00	0.00	0.00	0.23	3.03
361	7	7	16.40	0.038	31.1	0.0	5.4	0.3	0.0	0.4	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.486	0.08	0.00	0.00	0.00	0.23	3.02
362	7	7	16.30	0.038	31.1	0.0	5.4	0.3	0.0	0.4	0.1	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.23	3.02
363	7	7	16.20	0.038	31.1	0.0	5.5	0.2	0.0	0.4	0.0	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.23	3.02
364	7	7	16.10	0.038	31.1	0.0	5.5	0.2	0.0	0.4	0.0	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.23	3.01
365	7	7	16.00	0.038	31.0	0.0	5.5	0.2	0.0	0.4	0.0	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.23	3.01
366	7	7	15.90	0.038	31.0	0.0	5.5	0.2	0.0	0.3	0.0	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
367	7	7	15.80	0.038	31.0	0.0	5.5	0.1	0.0	0.3	0.0	10.0	0.0	1.77	35.0	0.001	0.001	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
368	8	8	15.70	0.209	31.0	0.0	7.0	2.8	0.0	0.7	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
369	8	8	15.60	0.379	31.0	0.0	7.0	2.9	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
370	8	8	15.50	0.550	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
371	8	8	15.40	0.721	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
372	8	8	15.30	0.892	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
373	8	8	15.20	1.063	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
374	8	8	15.10	1.234	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
375	8	8	15.00	1.405	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
376	8	8	14.90	1.575	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.77	2131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
377	9	9	14.80	1.728	31.0	0.0	6.3	3.6	0.0	1.1	0.1	11.2	0.0	1.77	983.0	0.001	0.001	7.4	0.644	0.08	0.00	0.00	0.00	0.23	3.01
378	9	9	14.70	1.881	31.1	0.0	5.9	4.0	0.0	1.3	0.1	12.3	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.01
379	9	9	14.60	2.034	31.1	0.0	5.8	4.4	0.0	1.4	0.1	13.5	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.02
WASTELOAD # 380 (TRIB 4 OUTFLOW) ENTERS HERE WITHOUT ANY FLOW																										
380	9	9	14.50	2.187	31.2	0.0	5.8	4.6	0.0	1.6	0.1	14.6	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.03
381	9	9	14.40	2.340	31.2	0.0	5.8	4.8	0.0	1.7	0.1	15.8	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
382	9	9	14.30	2.493	31.2	0.0	5.8	5.0	0.0	1.8	0.1	16.9	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
383	9	9	14.20	2.646	31.3	0.0	5.9	5.1	0.0	1.8	0.1	18.1	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.05
384	9	9	14.10	2.799	31.3	0.0	6.0	5.2	0.0	1.9	0.1	19.2	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.06
385	9	9	14.00	2.952	31.3	0.0	6.0	5.3	0.0	1.9	0.2	20.4	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.23	3.06
386	9	9	13.90	3.104	31.4	0.0	6.1	5.3	0.0	2.0	0.2	21.5	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.07
387	9	9	13.80	3.257	31.4	0.0	6.2	5.4	0.0	2.0	0.2	22.7	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.08
388	9	9	13.70	3.410	31.5	0.0	6.3	5.4	0.0	2.0	0.2	23.8	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
389	9	9	13.60	3.563	31.5	0.0	6.4	5.5	0.0	2.1	0.2	25.0	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
390	10	10	13.50	3.563	31.5	0.0	6.3	5.5	0.0	2.1	0.2	26.4	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
391	10	10	13.40	3.563	31.5	0.0	6.2	5.5	0.0	2.0	0.2	27.9	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
392	10	10	13.30	3.563	31.5	0.0	6.1	5.6	0.0	2.0	0.2	29.3	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
393	10	10	13.20	3.563	31.5	0.0	6.0	5.6	0.0	2.0	0.2	30.8	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
394	10	10	13.10	3.563	31.5	0.0	6.0	5.6	0.0	2.0	0.2	32.2	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
395	10	10	13.00	3.563	31.5	0.0	5.9	5.6	0.0	2.0	0.2	33.7	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
396	10	10	12.90	3.563	31.5	0.0	5.9	5.7	0.0	2.0	0.2	35.1	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
397	10	10	12.80	3.563	31.5	0.0	5.8	5.7	0.0	2.0	0.2	36.6	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
398	10	10	12.70	3.563	31.5	0.0	5.8	5.7	0.0	1.9	0.2	38.0	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
399	11	11	12.60	3.563	31.5	0.0	5.8	5.7	0.0	1.9	0.2	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
400	11	11	12.50	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
401	11	11	12.40	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
402	11	11	12.30	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
403	11	11	12.20	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
404	11	11	12.10	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
405	11	11	12.00	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
406	11	11	11.90	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
407	11	11	11.80	3.563	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78

408	11	11	11.70	3.563	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
409	11	11	11.60	3.563	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
410	11	11	11.50	3.563	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
411	11	11	11.40	3.563	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
412	11	11	11.30	3.563	31.5	0.0	5.7	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
413	11	11	11.20	3.563	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
414	11	11	11.10	3.563	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
415	11	11	11.00	3.563	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
416	11	11	10.90	3.563	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
417	11	11	10.80	3.563	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.033	0.033	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
418	12	12	10.70	3.563	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
419	12	12	10.60	3.563	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
420	12	12	10.50	3.563	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
421	12	12	10.40	3.563	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
422	12	12	10.30	3.563	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
423	12	12	10.20	3.563	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
424	12	12	10.10	3.563	31.5	0.0	5.6	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
425	12	12	10.00	3.563	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
426	12	12	9.90	3.563	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
427	12	12	9.80	3.563	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
428	12	12	9.70	3.563	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
429	12	12	9.60	3.563	31.5	0.0	5.4	6.3	0.0	1.7	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
430	12	12	9.50	3.563	31.5	0.0	5.4	6.4	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.035	0.035	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
WASTELOAD # 431 (TRIB 5 INFLOW) ENTERS HERE																									
431	13	13	9.40	6.848	31.5	0.0	5.3	8.1	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.068	0.068	7.4	0.761	0.08	0.00	0.00	0.00	0.35	3.09
432	13	13	9.30	6.848	31.5	0.0	5.3	8.0	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.068	0.068	7.4	0.761	0.08	0.00	0.00	0.00	0.35	3.09
DIVERSION # 433 (TRIB 6 OUTFLOW) LEAVES HERE																									
433	14	14	9.20	5.104	31.6	0.0	5.3	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.4	0.667	0.09	0.00	0.00	0.00	0.35	3.11
434	14	14	9.10	5.106	31.6	0.0	5.3	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.4	0.668	0.09	0.00	0.00	0.00	0.35	3.12
435	14	14	9.00	5.108	31.7	0.0	5.4	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.669	0.09	0.00	0.00	0.00	0.35	3.13
436	14	14	8.90	5.110	31.8	0.0	5.4	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.670	0.09	0.00	0.00	0.00	0.36	3.15
437	14	14	8.80	5.112	31.8	0.0	5.4	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.671	0.09	0.00	0.00	0.00	0.36	3.16
438	14	14	8.70	5.114	31.9	0.0	5.5	8.0	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.672	0.09	0.00	0.00	0.00	0.36	3.17
439	14	14	8.60	5.117	32.0	0.0	5.5	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.673	0.09	0.00	0.00	0.00	0.36	3.19
440	14	14	8.50	5.119	32.0	0.0	5.5	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.674	0.09	0.00	0.00	0.00	0.37	3.20
441	14	14	8.40	5.121	32.1	0.0	5.6	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.675	0.09	0.00	0.00	0.00	0.37	3.21
442	14	14	8.30	5.123	32.2	0.0	5.6	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.675	0.09	0.00	0.00	0.00	0.37	3.23
443	14	14	8.20	5.125	32.2	0.0	5.6	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.676	0.09	0.00	0.00	0.00	0.37	3.24
444	14	14	8.10	5.127	32.3	0.0	5.6	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.052	0.052	7.3	0.677	0.09	0.00	0.00	0.00	0.38	3.25
445	15	15	8.00	5.130	32.3	0.0	5.7	7.9	0.0	2.8	0.1	37.9	0.1	1.40	65.0	0.056	0.056	7.3	0.703	0.09	0.00	0.00	0.00	0.38	3.25
446	15	15	7.90	5.133	32.3	0.0	5.7	7.8	0.0	2.8	0.1	37.8	0.1	1.40	65.0	0.056	0.056	7.3	0.703	0.09	0.00	0.00	0.00	0.38	3.25
447	15	15	7.80	5.136	32.3	0.0	5.7	7.8	0.0	2.8	0.1	37.7	0.1	1.40	65.0	0.056	0.056	7.3	0.703	0.09	0.00	0.00	0.00	0.38	3.25
448	15	15	7.70	5.138	32.3	0.0	5.7	7.8	0.0	2.8	0.1	37.6	0.1	1.40	65.0	0.056	0.056	7.3	0.704	0.09	0.00	0.00	0.00	0.38	3.25
449	15	15	7.60	5.141	32.3	0.0	5.8	7.8	0.0	2.8	0.1	37.5	0.1	1.40	65.0	0.056	0.056	7.3	0.704	0.09	0.00	0.00	0.00	0.38	3.25
450	15	15	7.50	5.144	32.3	0.0	5.8	7.8	0.0	2.8	0.1	37.3	0.1	1.40	65.0	0.056	0.056	7.3	0.704	0.09	0.00	0.00	0.00	0.38	3.25
451	15	15	7.40	5.147	32.3	0.0	5.8	7.8	0.0	2.8	0.1	37.2	0.1	1.40	65.0	0.056	0.056	7.3	0.704	0.09	0.00	0.00	0.00	0.38	3.25

452	15	15	7.30	5.149	32.3	0.0	5.8	7.8	0.0	2.8	0.1	37.1	0.1	1.40	65.0	0.057	0.057	7.3	0.704	0.09	0.00	0.00	0.00	0.38	3.25
453	15	15	7.20	5.152	32.3	0.0	5.9	7.8	0.0	2.8	0.1	37.0	0.1	1.40	65.0	0.057	0.057	7.3	0.705	0.09	0.00	0.00	0.00	0.38	3.25
454	15	15	7.10	5.155	32.3	0.0	5.9	7.7	0.0	2.8	0.1	36.9	0.1	1.40	65.0	0.057	0.057	7.3	0.705	0.09	0.00	0.00	0.00	0.38	3.25
455	15	15	7.00	5.158	32.3	0.0	5.9	7.7	0.0	2.8	0.1	36.8	0.1	1.40	65.0	0.057	0.057	7.3	0.705	0.09	0.00	0.00	0.00	0.38	3.25
456	15	15	6.90	5.161	32.3	0.0	5.9	7.7	0.0	2.8	0.1	36.7	0.1	1.40	65.0	0.057	0.057	7.3	0.705	0.09	0.00	0.00	0.00	0.38	3.25
457	15	15	6.80	5.163	32.3	0.0	5.9	7.7	0.0	2.8	0.1	36.6	0.1	1.40	65.0	0.057	0.057	7.3	0.705	0.09	0.00	0.00	0.00	0.38	3.25
458	15	15	6.70	5.166	32.3	0.0	6.0	7.7	0.0	2.8	0.1	36.5	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
459	15	15	6.60	5.169	32.3	0.0	6.0	7.7	0.0	2.8	0.1	36.4	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
460	15	15	6.50	5.172	32.3	0.0	6.0	7.7	0.0	2.8	0.1	36.2	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
461	15	15	6.40	5.175	32.3	0.0	6.0	7.7	0.0	2.8	0.1	36.1	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
462	15	15	6.30	5.177	32.3	0.0	6.0	7.6	0.0	2.7	0.1	36.0	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
463	15	15	6.20	5.180	32.3	0.0	6.0	7.6	0.0	2.7	0.1	35.9	0.1	1.40	65.0	0.057	0.057	7.3	0.706	0.09	0.00	0.00	0.00	0.38	3.25
464	15	15	6.10	5.183	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.8	0.1	1.40	65.0	0.057	0.057	7.3	0.707	0.09	0.00	0.00	0.00	0.38	3.25
465	15	15	6.00	5.186	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.7	0.1	1.40	65.0	0.057	0.057	7.3	0.707	0.09	0.00	0.00	0.00	0.38	3.25
466	15	15	5.90	5.189	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.6	0.1	1.40	65.0	0.057	0.057	7.3	0.707	0.09	0.00	0.00	0.00	0.38	3.25
467	15	15	5.80	5.191	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.5	0.1	1.40	65.0	0.057	0.057	7.3	0.707	0.09	0.00	0.00	0.00	0.38	3.25
468	15	15	5.70	5.194	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.4	0.1	1.40	65.0	0.057	0.057	7.3	0.707	0.09	0.00	0.00	0.00	0.38	3.25
469	15	15	5.60	5.197	32.3	0.0	6.1	7.6	0.0	2.7	0.1	35.3	0.1	1.40	65.0	0.057	0.057	7.3	0.708	0.09	0.00	0.00	0.00	0.38	3.25
470	15	15	5.50	5.200	32.3	0.0	6.1	7.5	0.0	2.7	0.1	35.2	0.1	1.40	65.0	0.057	0.057	7.3	0.708	0.09	0.00	0.00	0.00	0.38	3.25
471	15	15	5.40	5.203	32.3	0.0	6.2	7.5	0.0	2.7	0.1	35.0	0.1	1.40	65.0	0.057	0.057	7.3	0.708	0.09	0.00	0.00	0.00	0.38	3.25
472	15	15	5.30	5.205	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.9	0.1	1.40	65.0	0.057	0.057	7.3	0.708	0.09	0.00	0.00	0.00	0.38	3.25
473	15	15	5.20	5.208	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.8	0.1	1.40	65.0	0.057	0.057	7.3	0.708	0.09	0.00	0.00	0.00	0.38	3.25
474	15	15	5.10	5.211	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.7	0.1	1.40	65.0	0.057	0.057	7.3	0.709	0.09	0.00	0.00	0.00	0.38	3.25
475	15	15	5.00	5.214	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.6	0.1	1.40	65.0	0.057	0.057	7.3	0.709	0.09	0.00	0.00	0.00	0.38	3.25
476	15	15	4.90	5.217	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.5	0.1	1.40	65.0	0.057	0.057	7.3	0.709	0.09	0.00	0.00	0.00	0.38	3.25
477	15	15	4.80	5.219	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.4	0.1	1.40	65.0	0.057	0.057	7.3	0.709	0.09	0.00	0.00	0.00	0.38	3.25
478	15	15	4.70	5.222	32.3	0.0	6.2	7.5	0.0	2.7	0.1	34.3	0.1	1.40	65.0	0.057	0.057	7.3	0.709	0.09	0.00	0.00	0.00	0.38	3.25
479	15	15	4.60	5.225	32.3	0.0	6.3	7.4	0.0	2.7	0.1	34.2	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
480	15	15	4.50	5.228	32.3	0.0	6.3	7.4	0.0	2.7	0.1	34.1	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
481	15	15	4.40	5.230	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.9	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
482	15	15	4.30	5.233	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.8	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
483	15	15	4.20	5.236	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.7	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
484	15	15	4.10	5.239	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.6	0.1	1.40	65.0	0.057	0.057	7.3	0.710	0.09	0.00	0.00	0.00	0.38	3.25
485	15	15	4.00	5.242	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.5	0.1	1.40	65.0	0.058	0.058	7.3	0.711	0.09	0.00	0.00	0.00	0.38	3.25
486	15	15	3.90	5.244	32.3	0.0	6.3	7.4	0.0	2.7	0.1	33.4	0.1	1.40	65.0	0.058	0.058	7.3	0.711	0.09	0.00	0.00	0.00	0.38	3.25
487	15	15	3.80	5.247	32.3	0.0	6.3	7.3	0.0	2.7	0.1	33.3	0.1	1.40	65.0	0.058	0.058	7.3	0.711	0.09	0.00	0.00	0.00	0.38	3.25
488	15	15	3.70	5.250	32.3	0.0	6.3	7.3	0.0	2.7	0.1	33.2	0.1	1.40	65.0	0.058	0.058	7.3	0.711	0.09	0.00	0.00	0.00	0.38	3.25
489	15	15	3.60	5.253	32.3	0.0	6.3	7.3	0.0	2.7	0.1	33.1	0.1	1.40	65.0	0.058	0.058	7.3	0.711	0.09	0.00	0.00	0.00	0.38	3.25
490	15	15	3.50	5.256	32.3	0.0	6.3	7.3	0.0	2.7	0.1	33.0	0.1	1.40	65.0	0.058	0.058	7.3	0.712	0.09	0.00	0.00	0.00	0.38	3.25

EXPANDED CAPSULE SUMMARY FOR Station 935

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	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
491	15	15	3.40	5.258	32.3	0.0	6.4	7.3	0.0	2.7	0.1	32.8	0.1	1.40	65.0	0.058	0.058	7.3	0.712	0.09	0.00	0.00	0.00	0.38	3.25
492	15	15	3.30	5.261	32.3	0.0	6.4	7.3	0.0	2.7	0.1	32.7	0.1	1.40	65.0	0.058	0.058	7.3	0.712	0.09	0.00	0.00	0.00	0.38	3.25
493	15	15	3.20	5.264	32.3	0.0	6.4	7.3	0.0	2.7	0.1	32.6	0.1	1.40	65.0	0.058	0.058	7.3	0.712	0.09	0.00	0.00	0.00	0.38	3.25
494	15	15	3.10	5.267	32.3	0.0	6.4	7.3	0.0	2.7	0.1	32.5	0.1	1.40	65.0	0.058	0.058	7.3	0.712	0.09	0.00	0.00	0.00	0.38	3.25
495	15	15	3.00	5.270	32.3	0.0	6.4	7.3	0.0	2.7	0.1	32.4	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25
496	15	15	2.90	5.272	32.3	0.0	6.4	7.2	0.0	2.7	0.1	32.3	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25
497	15	15	2.80	5.275	32.3	0.0	6.4	7.2	0.0	2.7	0.1	32.2	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25

498	15	15	2.70	5.278	32.3	0.0	6.4	7.2	0.0	2.7	0.1	32.1	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25
499	15	15	2.60	5.281	32.3	0.0	6.4	7.2	0.0	2.7	0.1	32.0	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25
500	15	15	2.50	5.284	32.3	0.0	6.4	7.2	0.0	2.7	0.1	31.9	0.1	1.40	65.0	0.058	0.058	7.3	0.713	0.09	0.00	0.00	0.00	0.38	3.25
501	15	15	2.40	5.286	32.3	0.0	6.4	7.2	0.0	2.7	0.1	31.8	0.1	1.40	65.0	0.058	0.058	7.3	0.714	0.09	0.00	0.00	0.00	0.38	3.25
502	15	15	2.30	5.289	32.3	0.0	6.4	7.2	0.0	2.7	0.1	31.6	0.1	1.40	65.0	0.058	0.058	7.3	0.714	0.09	0.00	0.00	0.00	0.38	3.25
503	15	15	2.20	5.292	32.3	0.0	6.4	7.2	0.0	2.7	0.1	31.5	0.1	1.40	65.0	0.058	0.058	7.3	0.714	0.09	0.00	0.00	0.00	0.38	3.25
504	15	15	2.10	5.295	32.3	0.0	6.4	7.2	0.0	2.6	0.1	31.4	0.1	1.40	65.0	0.058	0.058	7.3	0.714	0.09	0.00	0.00	0.00	0.38	3.25
505	15	15	2.00	5.298	32.3	0.0	6.4	7.1	0.0	2.6	0.1	31.3	0.1	1.40	65.0	0.058	0.058	7.3	0.714	0.09	0.00	0.00	0.00	0.38	3.25
506	15	15	1.90	5.300	32.3	0.0	6.4	7.1	0.0	2.6	0.1	31.2	0.1	1.40	65.0	0.058	0.058	7.3	0.715	0.09	0.00	0.00	0.00	0.38	3.25
507	15	15	1.80	5.303	32.3	0.0	6.4	7.1	0.0	2.6	0.1	31.1	0.1	1.40	65.0	0.058	0.058	7.3	0.715	0.09	0.00	0.00	0.00	0.38	3.25
508	15	15	1.70	5.306	32.3	0.0	6.4	7.1	0.0	2.6	0.1	31.0	0.1	1.40	65.0	0.058	0.058	7.3	0.715	0.09	0.00	0.00	0.00	0.38	3.25
509	15	15	1.60	5.309	32.3	0.0	6.4	7.1	0.0	2.6	0.1	30.9	0.1	1.40	65.0	0.058	0.058	7.3	0.715	0.09	0.00	0.00	0.00	0.38	3.25
510	15	15	1.50	5.311	32.3	0.0	6.4	7.1	0.0	2.6	0.1	30.8	0.1	1.40	65.0	0.058	0.058	7.3	0.715	0.09	0.00	0.00	0.00	0.38	3.25
511	15	15	1.40	5.314	32.3	0.0	6.4	7.1	0.0	2.6	0.1	30.7	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
512	15	15	1.30	5.317	32.3	0.0	6.4	7.1	0.0	2.6	0.1	30.5	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
513	15	15	1.20	5.320	32.3	0.0	6.4	7.1	0.0	2.6	0.1	30.4	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
514	15	15	1.10	5.323	32.3	0.0	6.4	7.0	0.0	2.6	0.1	30.3	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
515	15	15	1.00	5.325	32.3	0.0	6.4	7.0	0.0	2.6	0.1	30.2	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
516	15	15	0.90	5.328	32.3	0.0	6.4	7.0	0.0	2.6	0.1	30.1	0.1	1.40	65.0	0.058	0.058	7.3	0.716	0.09	0.00	0.00	0.00	0.38	3.25
517	15	15	0.80	5.331	32.3	0.0	6.4	7.0	0.0	2.6	0.1	30.0	0.1	1.40	65.0	0.058	0.058	7.3	0.717	0.09	0.00	0.00	0.00	0.38	3.25
518	16	16	0.70	5.334	32.3	0.0	6.4	7.0	0.0	2.6	0.1	29.2	0.1	1.40	65.0	0.059	0.059	7.3	0.717	0.09	0.00	0.00	0.00	0.38	3.25
519	16	16	0.60	5.337	32.3	0.0	6.4	7.0	0.0	2.6	0.1	28.5	0.1	1.40	65.0	0.059	0.059	7.3	0.717	0.09	0.00	0.00	0.00	0.38	3.25
520	16	16	0.50	5.341	32.3	0.0	6.4	7.0	0.0	2.6	0.1	27.8	0.1	1.40	65.0	0.059	0.059	7.3	0.717	0.09	0.00	0.00	0.00	0.38	3.25
521	16	16	0.40	5.344	32.3	0.0	6.4	7.0	0.0	2.6	0.1	27.0	0.1	1.40	65.0	0.059	0.059	7.3	0.718	0.09	0.00	0.00	0.00	0.38	3.25
522	16	16	0.30	5.347	32.3	0.0	6.4	7.0	0.0	2.6	0.1	26.2	0.1	1.40	65.0	0.059	0.059	7.3	0.718	0.09	0.00	0.00	0.00	0.38	3.25
523	16	16	0.20	5.350	32.3	0.0	6.4	7.0	0.0	2.6	0.1	25.5	0.1	1.40	65.0	0.059	0.059	7.3	0.718	0.09	0.00	0.00	0.00	0.38	3.25
524	16	16	0.10	5.353	32.3	0.0	6.4	6.9	0.0	2.6	0.1	24.8	0.1	1.40	65.0	0.059	0.059	7.3	0.718	0.09	0.00	0.00	0.00	0.38	3.25
525	16	16	0.00	5.357	32.3	0.0	6.4	7.0	0.0	2.6	0.1	24.0	0.1	1.40	65.0	0.059	0.059	7.3	0.718	0.09	0.00	0.00	0.00	0.38	3.25

SPECIAL REPORT: Bayou Chene

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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	35.000	31.22	0.0	0.0	0.0	6.19	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.2	0.0	0.	0.00
2	34.900	31.24	0.0	0.0	0.0	6.19	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.3	0.0	0.	0.00
3	34.800	31.25	0.0	0.0	0.0	6.18	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.5	0.0	0.	0.00
4	34.700	31.27	0.0	0.0	0.0	6.18	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.6	0.0	0.	0.00
5	34.600	31.29	0.0	0.0	0.0	6.17	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	70.8	0.0	0.	0.00
6	34.500	31.31	0.0	0.0	0.0	6.17	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	70.9	0.0	0.	0.00
7	34.400	31.33	0.0	0.0	0.0	6.16	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.1	0.0	0.	0.00
8	34.300	31.35	0.0	0.0	0.0	6.16	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	71.2	0.0	0.	0.00
9	34.200	31.36	0.0	0.0	0.0	6.16	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	71.4	0.0	0.	0.00
10	34.100	31.38	0.0	0.0	0.0	6.15	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	71.5	0.0	0.	0.00
11	34.000	31.40	0.0	0.0	0.0	6.15	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	71.7	0.0	0.	0.00
12	33.900	31.42	0.0	0.0	0.0	6.14	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	71.8	0.0	0.	0.00
13	33.800	31.44	0.0	0.0	0.0	6.14	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	72.0	0.0	0.	0.00
14	33.700	31.45	0.0	0.0	0.0	6.14	16.09	0.00	16.09	0.00	1.59	0.10	0.52	2.21	0.00	72.1	0.0	0.	0.00
15	33.600	31.47	0.0	0.0	0.0	6.13	16.09	0.00	16.09	0.00	1.59	0.10	0.52	2.21	0.00	72.3	0.0	0.	0.00
16	33.500	31.49	0.0	0.0	0.0	6.13	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.21	0.00	72.4	0.0	0.	0.00
17	33.400	31.51	0.0	0.0	0.0	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.6	0.0	0.	0.00
18	33.300	31.53	0.0	0.0	0.0	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.7	0.0	0.	0.00

19	33.200	31.55	0.0	0.0	0.0	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.9	0.0	0.	0.00
20	33.100	31.56	0.0	0.0	0.0	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.19	0.00	73.0	0.0	0.	0.00
21	33.000	31.58	0.0	0.0	0.0	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.19	0.00	73.2	0.0	0.	0.00
22	32.900	31.60	0.0	0.0	0.0	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.18	0.00	73.3	0.0	0.	0.00
23	32.800	31.62	0.0	0.0	0.0	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.49	2.18	0.00	73.5	0.0	0.	0.00
24	32.700	31.64	0.0	0.0	0.0	6.10	16.09	0.00	16.09	0.00	1.59	0.10	0.49	2.18	0.00	73.6	0.0	0.	0.00
25	32.600	31.65	0.0	0.0	0.0	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.49	2.17	0.00	73.8	0.0	0.	0.00
26	32.500	31.67	0.0	0.0	0.0	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.49	2.17	0.00	73.9	0.0	0.	0.00
27	32.400	31.69	0.0	0.0	0.0	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.17	0.00	74.1	0.0	0.	0.00
28	32.300	31.71	0.0	0.0	0.0	6.09	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.16	0.00	74.2	0.0	0.	0.00
29	32.200	31.73	0.0	0.0	0.0	6.09	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.16	0.00	74.4	0.0	0.	0.00
30	32.100	31.75	0.0	0.0	0.0	6.09	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.16	0.00	74.5	0.0	0.	0.00
31	32.000	31.76	0.0	0.0	0.0	6.09	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.15	0.00	74.7	0.0	0.	0.00
32	31.900	31.78	0.0	0.0	0.0	6.08	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.15	0.00	74.8	0.0	0.	0.00
33	31.800	31.80	0.0	0.0	0.0	6.08	16.09	0.00	16.09	0.00	1.58	0.10	0.47	2.15	0.00	75.0	0.0	0.	0.00
34	31.700	31.80	0.0	0.0	0.0	6.08	16.14	0.00	16.14	0.00	1.58	0.10	0.46	2.15	0.00	75.0	0.0	0.	0.00
35	31.600	31.80	0.0	0.0	0.0	6.07	16.19	0.00	16.19	0.00	1.59	0.10	0.46	2.15	0.00	75.1	0.0	0.	0.00
36	31.500	31.80	0.0	0.0	0.0	6.07	16.24	0.00	16.24	0.00	1.59	0.10	0.46	2.15	0.00	75.1	0.0	0.	0.00
37	31.400	31.80	0.0	0.0	0.0	6.06	16.30	0.00	16.30	0.00	1.59	0.10	0.45	2.15	0.00	75.2	0.0	0.	0.00
38	31.300	31.80	0.0	0.0	0.0	6.06	16.35	0.00	16.35	0.00	1.60	0.10	0.45	2.15	0.00	75.2	0.0	0.	0.00
39	31.200	31.80	0.0	0.0	0.0	6.05	16.40	0.00	16.40	0.00	1.60	0.10	0.45	2.15	0.00	75.2	0.0	0.	0.00
40	31.100	31.80	0.0	0.0	0.0	6.05	16.45	0.00	16.45	0.00	1.60	0.10	0.44	2.15	0.00	75.3	0.0	0.	0.00
41	31.000	31.80	0.0	0.0	0.0	6.04	16.50	0.00	16.50	0.00	1.61	0.10	0.44	2.15	0.00	75.3	0.0	0.	0.00
42	30.900	31.80	0.0	0.0	0.0	6.04	16.55	0.00	16.55	0.00	1.61	0.10	0.44	2.15	0.00	75.4	0.0	0.	0.00
43	30.800	31.80	0.0	0.0	0.0	6.04	16.61	0.00	16.61	0.00	1.61	0.10	0.43	2.15	0.00	75.4	0.0	0.	0.00
44	30.700	31.80	0.0	0.0	0.0	6.03	16.66	0.00	16.66	0.00	1.61	0.10	0.43	2.15	0.00	75.4	0.0	0.	0.00
45	30.600	31.80	0.0	0.0	0.0	6.03	16.71	0.00	16.71	0.00	1.62	0.10	0.43	2.15	0.00	75.5	0.0	0.	0.00
46	30.500	31.80	0.0	0.0	0.0	6.02	16.76	0.00	16.76	0.00	1.62	0.10	0.43	2.15	0.00	75.5	0.0	0.	0.00
47	30.400	31.80	0.0	0.0	0.0	6.02	16.81	0.00	16.81	0.00	1.62	0.10	0.42	2.15	0.00	75.6	0.0	0.	0.00
48	30.300	31.80	0.0	0.0	0.0	6.01	16.86	0.00	16.86	0.00	1.63	0.10	0.42	2.15	0.00	75.6	0.0	0.	0.00
49	30.200	31.80	0.0	0.0	0.0	6.01	16.91	0.00	16.91	0.00	1.63	0.10	0.42	2.15	0.00	75.6	0.0	0.	0.00
50	30.100	31.80	0.0	0.0	0.0	6.00	16.96	0.00	16.96	0.00	1.63	0.10	0.41	2.15	0.00	75.7	0.0	0.	0.00
51	30.000	31.80	0.0	0.0	0.0	6.00	17.01	0.00	17.01	0.00	1.64	0.10	0.41	2.15	0.00	75.7	0.0	0.	0.00
52	29.900	31.80	0.0	0.0	0.0	6.00	17.06	0.00	17.06	0.00	1.64	0.10	0.41	2.15	0.00	75.7	0.0	0.	0.00
53	29.800	31.80	0.0	0.0	0.0	5.99	17.11	0.00	17.11	0.00	1.64	0.10	0.40	2.15	0.00	75.8	0.0	0.	0.00
54	29.700	31.80	0.0	0.0	0.0	5.99	17.16	0.00	17.16	0.00	1.65	0.10	0.40	2.15	0.00	75.8	0.0	0.	0.00
55	29.600	31.80	0.0	0.0	0.0	5.98	17.21	0.00	17.21	0.00	1.65	0.10	0.40	2.15	0.00	75.9	0.0	0.	0.00
56	29.500	31.80	0.0	0.0	0.0	5.98	17.25	0.00	17.25	0.00	1.65	0.10	0.40	2.15	0.00	75.9	0.0	0.	0.00
57	29.400	31.80	0.0	0.0	0.0	5.97	17.30	0.00	17.30	0.00	1.65	0.10	0.39	2.15	0.00	75.9	0.0	0.	0.00
58	29.300	31.80	0.0	0.0	0.0	5.97	17.35	0.00	17.35	0.00	1.66	0.10	0.39	2.15	0.00	76.0	0.0	0.	0.00
59	29.200	31.80	0.0	0.0	0.0	5.97	17.40	0.00	17.40	0.00	1.66	0.10	0.39	2.15	0.00	76.0	0.0	0.	0.00
60	29.100	31.80	0.0	0.0	0.0	5.96	17.45	0.00	17.45	0.00	1.66	0.10	0.38	2.15	0.00	76.1	0.0	0.	0.00
61	29.000	31.80	0.0	0.0	0.0	5.96	17.49	0.00	17.49	0.00	1.67	0.10	0.38	2.15	0.00	76.1	0.0	0.	0.00
62	28.900	31.80	0.0	0.0	0.0	5.95	17.54	0.00	17.54	0.00	1.67	0.10	0.38	2.15	0.00	76.1	0.0	0.	0.00
63	28.800	31.80	0.0	0.0	0.0	5.95	17.59	0.00	17.59	0.00	1.67	0.10	0.38	2.15	0.00	76.2	0.0	0.	0.00
64	28.700	31.80	0.0	0.0	0.0	5.95	17.64	0.00	17.64	0.00	1.67	0.10	0.37	2.15	0.00	76.2	0.0	0.	0.00
65	28.600	31.80	0.0	0.0	0.0	5.94	17.68	0.00	17.68	0.00	1.68	0.10	0.37	2.15	0.00	76.3	0.0	0.	0.00
66	28.500	31.80	0.0	0.0	0.0	5.94	17.73	0.00	17.73	0.00	1.68	0.10	0.37	2.15	0.00	76.3	0.0	0.	0.00
67	28.400	31.80	0.0	0.0	0.0	5.93	17.78	0.00	17.78	0.00	1.68	0.10	0.36	2.15	0.00	76.3	0.0	0.	0.00
68	28.300	31.80	0.0	0.0	0.0	5.93	17.82	0.00	17.82	0.00	1.69	0.10	0.36	2.15	0.00	76.4	0.0	0.	0.00

69	28.200	31.80	0.0	0.0	0.0	5.93	17.87	0.00	17.87	0.00	1.69	0.10	0.36	2.15	0.00	76.4	0.0	0.	0.00
70	28.100	31.80	0.0	0.0	0.0	5.92	17.92	0.00	17.92	0.00	1.69	0.10	0.35	2.15	0.00	76.5	0.0	0.	0.00
71	28.000	31.80	0.0	0.0	0.0	5.92	17.96	0.00	17.96	0.00	1.70	0.10	0.35	2.15	0.00	76.5	0.0	0.	0.00
72	27.900	31.80	0.0	0.0	0.0	5.91	18.01	0.00	18.01	0.00	1.70	0.10	0.35	2.15	0.00	76.5	0.0	0.	0.00
73	27.800	31.80	0.0	0.0	0.0	5.91	18.06	0.00	18.06	0.00	1.70	0.10	0.35	2.15	0.00	76.6	0.0	0.	0.00
74	27.700	31.80	0.0	0.0	0.0	5.91	18.10	0.00	18.10	0.00	1.70	0.10	0.34	2.15	0.00	76.6	0.0	0.	0.00
75	27.600	31.80	0.0	0.0	0.0	5.90	18.15	0.00	18.15	0.00	1.71	0.10	0.34	2.15	0.00	76.7	0.0	0.	0.00
76	27.500	31.80	0.0	0.0	0.0	5.90	18.19	0.00	18.19	0.00	1.71	0.10	0.34	2.15	0.00	76.7	0.0	0.	0.00
77	27.400	31.80	0.0	0.0	0.0	5.89	18.24	0.00	18.24	0.00	1.71	0.10	0.33	2.15	0.00	76.7	0.0	0.	0.00
78	27.300	31.80	0.0	0.0	0.0	5.89	18.28	0.00	18.28	0.00	1.72	0.10	0.33	2.15	0.00	76.8	0.0	0.	0.00
79	27.200	31.80	0.0	0.0	0.0	5.89	18.33	0.00	18.33	0.00	1.72	0.10	0.33	2.15	0.00	76.8	0.0	0.	0.00
80	27.100	31.80	0.0	0.0	0.0	5.88	18.37	0.00	18.37	0.00	1.72	0.10	0.33	2.15	0.00	76.9	0.0	0.	0.00
81	27.000	31.80	0.0	0.0	0.0	5.88	18.42	0.00	18.42	0.00	1.72	0.10	0.32	2.15	0.00	76.9	0.0	0.	0.00
82	26.900	31.80	0.0	0.0	0.0	5.87	18.46	0.00	18.46	0.00	1.73	0.10	0.32	2.15	0.00	76.9	0.0	0.	0.00
83	26.800	31.80	0.0	0.0	0.0	5.87	18.50	0.00	18.50	0.00	1.73	0.10	0.32	2.15	0.00	77.0	0.0	0.	0.00
84	26.700	31.80	0.0	0.0	0.0	5.87	18.55	0.00	18.55	0.00	1.73	0.10	0.31	2.15	0.00	77.0	0.0	0.	0.00
85	26.600	31.80	0.0	0.0	0.0	5.86	18.59	0.00	18.59	0.00	1.74	0.10	0.31	2.15	0.00	77.0	0.0	0.	0.00
86	26.500	31.80	0.0	0.0	0.0	5.86	18.63	0.00	18.63	0.00	1.74	0.10	0.31	2.15	0.00	77.1	0.0	0.	0.00
87	26.400	31.80	0.0	0.0	0.0	5.86	18.68	0.00	18.68	0.00	1.74	0.10	0.31	2.15	0.00	77.1	0.0	0.	0.00
88	26.300	31.80	0.0	0.0	0.0	5.85	18.72	0.00	18.72	0.00	1.74	0.10	0.30	2.15	0.00	77.2	0.0	0.	0.00
89	26.200	31.80	0.0	0.0	0.0	5.85	18.76	0.00	18.76	0.00	1.75	0.10	0.30	2.15	0.00	77.2	0.0	0.	0.00
90	26.100	31.80	0.0	0.0	0.0	5.85	18.81	0.00	18.81	0.00	1.75	0.10	0.30	2.15	0.00	77.2	0.0	0.	0.00
91	26.000	31.80	0.0	0.0	0.0	5.84	18.85	0.00	18.85	0.00	1.75	0.10	0.30	2.15	0.00	77.3	0.0	0.	0.00
92	25.900	31.80	0.0	0.0	0.0	5.84	18.89	0.00	18.89	0.00	1.75	0.10	0.29	2.15	0.00	77.3	0.0	0.	0.00
93	25.800	31.80	0.0	0.0	0.0	5.83	18.93	0.00	18.93	0.00	1.76	0.10	0.29	2.15	0.00	77.4	0.0	0.	0.00
94	25.700	31.80	0.0	0.0	0.0	5.83	18.98	0.00	18.98	0.00	1.76	0.10	0.29	2.15	0.00	77.4	0.0	0.	0.00
95	25.600	31.80	0.0	0.0	0.0	5.83	19.02	0.00	19.02	0.00	1.76	0.10	0.28	2.15	0.00	77.4	0.0	0.	0.00
96	25.500	31.80	0.0	0.0	0.0	5.82	19.06	0.00	19.06	0.00	1.77	0.10	0.28	2.15	0.00	77.5	0.0	0.	0.00
97	25.400	31.80	0.0	0.0	0.0	5.82	19.10	0.00	19.10	0.00	1.77	0.10	0.28	2.15	0.00	77.5	0.0	0.	0.00
98	25.300	31.80	0.0	0.0	0.0	5.82	19.14	0.00	19.14	0.00	1.77	0.10	0.28	2.15	0.00	77.6	0.0	0.	0.00
99	25.200	31.80	0.0	0.0	0.0	5.81	19.19	0.00	19.19	0.00	1.77	0.10	0.27	2.15	0.00	77.6	0.0	0.	0.00
100	25.100	31.80	0.0	0.0	0.0	5.81	19.23	0.00	19.23	0.00	1.78	0.10	0.27	2.15	0.00	77.6	0.0	0.	0.00
101	25.000	31.80	0.0	0.0	0.0	5.81	19.27	0.00	19.27	0.00	1.78	0.10	0.27	2.15	0.00	77.7	0.0	0.	0.00
102	24.900	31.80	0.0	0.0	0.0	5.80	19.31	0.00	19.31	0.00	1.78	0.10	0.26	2.15	0.00	77.7	0.0	0.	0.00
103	24.800	31.80	0.0	0.0	0.0	5.80	19.35	0.00	19.35	0.00	1.78	0.10	0.26	2.15	0.00	77.8	0.0	0.	0.00
104	24.700	31.80	0.0	0.0	0.0	5.80	19.39	0.00	19.39	0.00	1.79	0.10	0.26	2.15	0.00	77.8	0.0	0.	0.00
105	24.600	31.80	0.0	0.0	0.0	5.79	19.43	0.00	19.43	0.00	1.79	0.10	0.26	2.15	0.00	77.8	0.0	0.	0.00
106	24.500	31.80	0.0	0.0	0.0	5.79	19.47	0.00	19.47	0.00	1.79	0.10	0.25	2.15	0.00	77.9	0.0	0.	0.00
107	24.400	31.80	0.0	0.0	0.0	5.79	19.51	0.00	19.51	0.00	1.80	0.10	0.25	2.15	0.00	77.9	0.0	0.	0.00
108	24.300	31.80	0.0	0.0	0.0	5.78	19.55	0.00	19.55	0.00	1.80	0.10	0.25	2.15	0.00	78.0	0.0	0.	0.00
109	24.200	31.80	0.0	0.0	0.0	5.78	19.59	0.00	19.59	0.00	1.80	0.10	0.25	2.15	0.00	78.0	0.0	0.	0.00
110	24.100	31.80	0.0	0.0	0.0	5.78	19.63	0.00	19.63	0.00	1.80	0.10	0.24	2.15	0.00	78.0	0.0	0.	0.00
111	24.000	31.80	0.0	0.0	0.0	5.77	19.67	0.00	19.67	0.00	1.81	0.10	0.24	2.15	0.00	78.1	0.0	0.	0.00
112	23.900	31.80	0.0	0.0	0.0	5.77	19.71	0.00	19.71	0.00	1.81	0.10	0.24	2.15	0.00	78.1	0.0	0.	0.00
113	23.800	31.80	0.0	0.0	0.0	5.77	19.75	0.00	19.75	0.00	1.81	0.10	0.24	2.15	0.00	78.1	0.0	0.	0.00
114	23.700	31.80	0.0	0.0	0.0	5.76	19.79	0.00	19.79	0.00	1.81	0.10	0.23	2.15	0.00	78.2	0.0	0.	0.00
115	23.600	31.80	0.0	0.0	0.0	5.76	19.83	0.00	19.83	0.00	1.82	0.10	0.23	2.15	0.00	78.2	0.0	0.	0.00
116	23.500	31.80	0.0	0.0	0.0	5.76	19.87	0.00	19.87	0.00	1.82	0.10	0.23	2.15	0.00	78.3	0.0	0.	0.00
117	23.400	31.80	0.0	0.0	0.0	5.75	19.91	0.00	19.91	0.00	1.82	0.10	0.22	2.15	0.00	78.3	0.0	0.	0.00
118	23.300	31.80	0.0	0.0	0.0	5.75	19.95	0.00	19.95	0.00	1.82	0.10	0.22	2.15	0.00	78.3	0.0	0.	0.00

119	23.200	31.80	0.0	0.0	0.0	5.75	19.98	0.00	19.98	0.00	1.83	0.10	0.22	2.15	0.00	78.4	0.0	0.	0.00
120	23.100	31.80	0.0	0.0	0.0	5.74	20.02	0.00	20.02	0.00	1.83	0.10	0.22	2.15	0.00	78.4	0.0	0.	0.00
121	23.000	31.80	0.0	0.0	0.0	5.74	20.06	0.00	20.06	0.00	1.83	0.10	0.21	2.15	0.00	78.5	0.0	0.	0.00
122	22.900	31.80	0.0	0.0	0.0	5.74	20.10	0.00	20.10	0.00	1.83	0.10	0.21	2.15	0.00	78.5	0.0	0.	0.00
123	22.800	31.80	0.0	0.0	0.0	5.74	20.14	0.00	20.14	0.00	1.84	0.10	0.21	2.15	0.00	78.5	0.0	0.	0.00
124	22.700	31.80	0.0	0.0	0.0	5.73	20.17	0.00	20.17	0.00	1.84	0.10	0.21	2.15	0.00	78.6	0.0	0.	0.00
125	22.600	31.80	0.0	0.0	0.0	5.73	20.21	0.00	20.21	0.00	1.84	0.10	0.20	2.15	0.00	78.6	0.0	0.	0.00
126	22.500	31.80	0.0	0.0	0.0	5.73	20.25	0.00	20.25	0.00	1.85	0.10	0.20	2.15	0.00	78.7	0.0	0.	0.00
127	22.400	31.80	0.0	0.0	0.0	5.72	20.29	0.00	20.29	0.00	1.85	0.10	0.20	2.15	0.00	78.7	0.0	0.	0.00
128	22.300	31.80	0.0	0.0	0.0	5.72	20.32	0.00	20.32	0.00	1.85	0.10	0.20	2.15	0.00	78.7	0.0	0.	0.00
129	22.200	31.80	0.0	0.0	0.0	5.72	20.36	0.00	20.36	0.00	1.85	0.10	0.19	2.15	0.00	78.8	0.0	0.	0.00
130	22.100	31.80	0.0	0.0	0.0	5.71	20.40	0.00	20.40	0.00	1.86	0.11	0.19	2.15	0.00	78.8	0.0	0.	0.00
131	22.000	31.80	0.0	0.0	0.0	5.71	20.44	0.00	20.44	0.00	1.86	0.11	0.19	2.15	0.00	78.9	0.0	0.	0.00
132	21.900	31.80	0.0	0.0	0.0	5.71	20.47	0.00	20.47	0.00	1.86	0.11	0.19	2.15	0.00	78.9	0.0	0.	0.00
133	21.800	31.80	0.0	0.0	0.0	5.71	20.51	0.00	20.51	0.00	1.86	0.11	0.18	2.15	0.00	78.9	0.0	0.	0.00
134	21.700	31.80	0.0	0.0	0.0	5.70	20.55	0.00	20.55	0.00	1.87	0.11	0.18	2.15	0.00	79.0	0.0	0.	0.00
135	21.600	31.80	0.0	0.0	0.0	5.70	20.58	0.00	20.58	0.00	1.87	0.11	0.18	2.15	0.00	79.0	0.0	0.	0.00
136	21.500	31.80	0.0	0.0	0.0	5.70	20.62	0.00	20.62	0.00	1.87	0.11	0.17	2.15	0.00	79.1	0.0	0.	0.00
137	21.400	31.80	0.0	0.0	0.0	5.69	20.65	0.00	20.65	0.00	1.87	0.11	0.17	2.15	0.00	79.1	0.0	0.	0.00
138	21.300	31.80	0.0	0.0	0.0	5.69	20.69	0.00	20.69	0.00	1.88	0.11	0.17	2.15	0.00	79.1	0.0	0.	0.00
139	21.200	31.80	0.0	0.0	0.0	5.69	20.73	0.00	20.73	0.00	1.88	0.11	0.17	2.15	0.00	79.2	0.0	0.	0.00
140	21.100	31.80	0.0	0.0	0.0	5.69	20.76	0.00	20.76	0.00	1.88	0.11	0.16	2.15	0.00	79.2	0.0	0.	0.00
141	21.000	31.80	0.0	0.0	0.0	5.68	20.80	0.00	20.80	0.00	1.88	0.11	0.16	2.15	0.00	79.3	0.0	0.	0.00
142	20.900	31.80	0.0	0.0	0.0	5.68	20.83	0.00	20.83	0.00	1.89	0.11	0.16	2.15	0.00	79.3	0.0	0.	0.00
143	20.800	31.80	0.0	0.0	0.0	5.68	20.87	0.00	20.87	0.00	1.89	0.11	0.16	2.15	0.00	79.3	0.0	0.	0.00
144	20.700	31.80	0.0	0.0	0.0	5.67	20.90	0.00	20.90	0.00	1.89	0.11	0.15	2.15	0.00	79.4	0.0	0.	0.00
145	20.600	31.80	0.0	0.0	0.0	5.67	20.94	0.00	20.94	0.00	1.89	0.11	0.15	2.15	0.00	79.4	0.0	0.	0.00
146	20.500	31.80	0.0	0.0	0.0	5.67	20.97	0.00	20.97	0.00	1.89	0.11	0.15	2.15	0.00	79.4	0.0	0.	0.00
147	20.400	31.80	0.0	0.0	0.0	5.67	21.01	0.00	21.01	0.00	1.90	0.11	0.15	2.15	0.00	79.5	0.0	0.	0.00
148	20.300	31.80	0.0	0.0	0.0	5.66	21.04	0.00	21.04	0.00	1.90	0.11	0.14	2.15	0.00	79.5	0.0	0.	0.00
149	20.200	31.80	0.0	0.0	0.0	5.66	21.08	0.00	21.08	0.00	1.90	0.11	0.14	2.15	0.00	79.6	0.0	0.	0.00
150	20.100	31.80	0.0	0.0	0.0	5.66	21.11	0.00	21.11	0.00	1.90	0.11	0.14	2.15	0.00	79.6	0.0	0.	0.00
151	20.000	31.80	0.0	0.0	0.0	5.66	21.14	0.00	21.14	0.00	1.91	0.11	0.14	2.15	0.00	79.6	0.0	0.	0.00
152	19.900	31.80	0.0	0.0	0.0	5.65	21.18	0.00	21.18	0.00	1.91	0.11	0.13	2.15	0.00	79.7	0.0	0.	0.00
153	19.800	31.80	0.0	0.0	0.0	5.65	21.21	0.00	21.21	0.00	1.91	0.11	0.13	2.15	0.00	79.7	0.0	0.	0.00
154	19.700	31.80	0.0	0.0	0.0	5.65	21.25	0.00	21.25	0.00	1.91	0.11	0.13	2.15	0.00	79.8	0.0	0.	0.00
155	19.600	31.80	0.0	0.0	0.0	5.65	21.28	0.00	21.28	0.00	1.92	0.11	0.13	2.15	0.00	79.8	0.0	0.	0.00
156	19.500	31.80	0.0	0.0	0.0	5.64	21.31	0.00	21.31	0.00	1.92	0.11	0.12	2.15	0.00	79.8	0.0	0.	0.00
157	19.400	31.80	0.0	0.0	0.0	5.64	21.35	0.00	21.35	0.00	1.92	0.11	0.12	2.15	0.00	79.9	0.0	0.	0.00
158	19.300	31.80	0.0	0.0	0.0	5.64	21.38	0.00	21.38	0.00	1.92	0.11	0.12	2.15	0.00	79.9	0.0	0.	0.00
159	19.200	31.80	0.0	0.0	0.0	5.64	21.41	0.00	21.41	0.00	1.93	0.11	0.12	2.15	0.00	80.0	0.0	0.	0.00
160	19.100	31.80	0.0	0.0	0.0	5.63	21.44	0.00	21.44	0.00	1.93	0.11	0.11	2.15	0.00	80.0	0.0	0.	0.00
161	19.000	31.80	0.0	0.0	0.0	5.68	21.42	0.00	21.42	0.00	1.93	0.11	0.11	2.15	0.00	79.6	0.0	0.	0.00
162	18.900	31.80	0.0	0.0	0.0	5.73	21.38	0.00	21.38	0.00	1.93	0.11	0.11	2.14	0.00	79.2	0.0	0.	0.00
163	18.800	31.80	0.0	0.0	0.0	5.79	21.35	0.00	21.35	0.00	1.93	0.11	0.10	2.14	0.00	78.8	0.0	0.	0.00
164	18.700	31.80	0.0	0.0	0.0	5.84	21.31	0.00	21.31	0.00	1.92	0.11	0.10	2.13	0.00	78.5	0.0	0.	0.00
165	18.600	31.80	0.0	0.0	0.0	5.89	21.28	0.00	21.28	0.00	1.92	0.11	0.09	2.12	0.00	78.1	0.0	0.	0.00
166	18.500	31.80	0.0	0.0	0.0	5.94	21.25	0.00	21.25	0.00	1.92	0.11	0.09	2.12	0.00	77.7	0.0	0.	0.00
167	18.400	31.80	0.0	0.0	0.0	5.99	21.21	0.00	21.21	0.00	1.92	0.11	0.09	2.11	0.00	77.3	0.0	0.	0.00
168	18.300	31.80	0.0	0.0	0.0	6.04	21.18	0.00	21.18	0.00	1.92	0.11	0.08	2.11	0.00	76.9	0.0	0.	0.00

169	18.200	31.80	0.0	0.0	0.0	6.09	21.15	0.00	21.15	0.00	1.92	0.11	0.08	2.10	0.00	76.5	0.0	0.	0.00
170	18.100	31.80	0.0	0.0	0.0	6.14	21.11	0.00	21.11	0.00	1.92	0.11	0.07	2.10	0.00	76.2	0.0	0.	0.00
171	18.000	31.80	0.0	0.0	0.0	6.19	21.08	0.00	21.08	0.00	1.92	0.11	0.07	2.09	0.00	75.8	0.0	0.	0.00
172	17.900	31.80	0.0	0.0	0.0	6.23	21.05	0.00	21.05	0.00	1.91	0.11	0.07	2.09	0.00	75.4	0.0	0.	0.00
173	17.800	31.80	0.0	0.0	0.0	6.28	21.01	0.00	21.01	0.00	1.91	0.11	0.06	2.08	0.00	75.0	0.0	0.	0.00
174	17.700	31.80	0.0	0.0	0.0	6.32	20.98	0.00	20.98	0.00	1.91	0.11	0.06	2.08	0.00	74.6	0.0	0.	0.00
175	17.600	31.80	0.0	0.0	0.0	6.37	20.95	0.00	20.95	0.00	1.91	0.11	0.05	2.07	0.00	74.2	0.0	0.	0.00
176	17.500	31.80	0.0	0.0	0.0	6.41	20.91	0.00	20.91	0.00	1.91	0.11	0.05	2.07	0.00	73.8	0.0	0.	0.00
177	17.400	31.80	0.0	0.0	0.0	6.45	20.88	0.00	20.88	0.00	1.91	0.11	0.05	2.06	0.00	73.5	0.0	0.	0.00
178	17.300	31.80	0.0	0.0	0.0	6.49	20.85	0.00	20.85	0.00	1.91	0.11	0.04	2.06	0.00	73.1	0.0	0.	0.00
179	17.200	31.80	0.0	0.0	0.0	6.53	20.82	0.00	20.82	0.00	1.91	0.11	0.04	2.05	0.00	72.7	0.0	0.	0.00
180	17.100	31.80	0.0	0.0	0.0	6.57	20.78	0.00	20.78	0.00	1.91	0.11	0.03	2.05	0.00	72.3	0.0	0.	0.00
181	17.000	31.80	0.0	0.0	0.0	6.61	20.75	0.00	20.75	0.00	1.90	0.11	0.03	2.05	0.00	71.9	0.0	0.	0.00
182	16.900	31.80	0.0	0.0	0.0	6.65	20.72	0.00	20.72	0.00	1.90	0.11	0.03	2.04	0.00	71.5	0.0	0.	0.00
183	16.800	31.80	0.0	0.0	0.0	6.69	20.68	0.00	20.68	0.00	1.90	0.11	0.02	2.04	0.00	71.2	0.0	0.	0.00
184	16.700	31.80	0.0	0.0	0.0	6.72	20.65	0.00	20.65	0.00	1.90	0.11	0.02	2.03	0.00	70.8	0.0	0.	0.00
185	16.600	31.80	0.0	0.0	0.0	6.76	20.62	0.00	20.62	0.00	1.90	0.11	0.02	2.03	0.00	70.4	0.0	0.	0.00
186	16.500	31.80	0.0	0.0	0.0	6.80	20.59	0.00	20.59	0.00	1.90	0.11	0.01	2.02	0.00	70.0	0.0	0.	0.00
187	16.400	31.80	0.0	0.0	0.0	6.83	20.55	0.00	20.55	0.00	1.90	0.11	0.01	2.02	0.00	69.6	0.0	0.	0.00
188	16.300	31.80	0.0	0.0	0.0	6.86	20.52	0.00	20.52	0.00	1.90	0.11	0.01	2.01	0.00	69.2	0.0	0.	0.00
189	16.200	31.80	0.0	0.0	0.0	6.90	20.49	0.00	20.49	0.00	1.90	0.11	0.00	2.01	0.00	68.8	0.0	0.	0.00
190	16.100	31.80	0.0	0.0	0.0	6.93	20.46	0.00	20.46	0.00	1.89	0.11	0.00	2.00	0.00	68.5	0.0	0.	0.00
191	16.000	31.80	0.0	0.0	0.0	6.96	20.42	0.00	20.42	0.00	1.89	0.11	0.00	2.00	0.00	68.1	0.0	0.	0.00
192	15.900	31.80	0.0	0.0	0.0	6.99	20.39	0.00	20.39	0.00	1.89	0.11	0.00	2.00	0.00	67.7	0.0	0.	0.00
193	15.800	31.80	0.0	0.0	0.0	7.02	20.36	0.00	20.36	0.00	1.89	0.11	0.00	2.00	0.00	67.3	0.0	0.	0.00
194	15.700	31.80	0.0	0.0	0.0	7.05	20.33	0.00	20.33	0.00	1.89	0.11	0.00	2.00	0.00	66.9	0.0	0.	0.00
195	15.600	31.80	0.0	0.0	0.0	7.08	20.30	0.00	20.30	0.00	1.89	0.11	0.00	2.00	0.00	66.5	0.0	0.	0.00
196	15.500	31.80	0.0	0.0	0.0	7.11	20.26	0.00	20.26	0.00	1.89	0.11	0.00	2.00	0.00	66.2	0.0	0.	0.00
197	15.400	31.80	0.0	0.0	0.0	7.14	20.23	0.00	20.23	0.00	1.89	0.11	0.00	2.00	0.00	65.8	0.0	0.	0.00
198	15.300	31.80	0.0	0.0	0.0	7.16	20.20	0.00	20.20	0.00	1.89	0.11	0.00	2.00	0.00	65.4	0.0	0.	0.00
199	15.200	31.80	0.0	0.0	0.0	7.19	20.17	0.00	20.17	0.00	1.88	0.11	0.00	2.00	0.00	65.0	0.0	0.	0.00
200	15.100	31.80	0.0	0.0	0.0	7.21	20.14	0.00	20.14	0.00	1.88	0.11	0.00	1.99	0.00	64.6	0.0	0.	0.00
201	15.000	31.80	0.0	0.0	0.0	7.24	20.10	0.00	20.10	0.00	1.88	0.11	0.00	1.99	0.00	64.2	0.0	0.	0.00
202	14.900	31.80	0.0	0.0	0.0	7.26	20.07	0.00	20.07	0.00	1.88	0.11	0.00	1.99	0.00	63.8	0.0	0.	0.00
203	14.800	31.80	0.0	0.0	0.0	7.29	20.04	0.00	20.04	0.00	1.88	0.11	0.00	1.99	0.00	63.5	0.0	0.	0.00
204	14.700	31.80	0.0	0.0	0.0	7.31	20.01	0.00	20.01	0.00	1.88	0.11	0.00	1.99	0.00	63.1	0.0	0.	0.00
205	14.600	31.80	0.0	0.0	0.0	7.33	19.98	0.00	19.98	0.00	1.88	0.11	0.00	1.99	0.00	62.7	0.0	0.	0.00
206	14.500	31.80	0.0	0.0	0.0	7.35	19.95	0.00	19.95	0.00	1.88	0.11	0.00	1.99	0.00	62.3	0.0	0.	0.00
207	14.400	31.80	0.0	0.0	0.0	7.37	19.91	0.00	19.91	0.00	1.88	0.11	0.00	1.99	0.00	61.9	0.0	0.	0.00
208	14.300	31.80	0.0	0.0	0.0	7.39	19.88	0.00	19.88	0.00	1.88	0.11	0.00	1.99	0.00	61.5	0.0	0.	0.00
209	14.200	31.80	0.0	0.0	0.0	7.41	19.85	0.00	19.85	0.00	1.87	0.11	0.00	1.99	0.00	61.2	0.0	0.	0.00
210	14.100	31.80	0.0	0.0	0.0	7.43	19.82	0.00	19.82	0.00	1.87	0.11	0.00	1.98	0.00	60.8	0.0	0.	0.00
211	14.000	31.80	0.0	0.0	0.0	7.45	19.78	0.00	19.78	0.00	1.87	0.11	0.00	1.98	0.00	60.4	0.0	0.	0.00
212	13.900	31.80	0.0	0.0	0.0	7.46	19.66	0.00	19.66	0.00	1.87	0.11	0.00	1.98	0.00	60.0	0.0	0.	0.00
213	13.800	31.80	0.0	0.0	0.0	7.22	17.83	0.00	17.83	0.00	1.88	0.10	0.00	1.99	0.00	59.5	0.0	0.	0.00
214	13.700	31.80	0.0	0.0	0.0	7.25	17.79	0.00	17.79	0.00	1.88	0.10	0.00	1.99	0.00	59.0	0.0	0.	0.00
215	13.600	31.80	0.0	0.0	0.0	7.29	17.75	0.00	17.75	0.00	1.88	0.11	0.00	1.99	0.00	58.5	0.0	0.	0.00
216	13.500	31.80	0.0	0.0	0.0	7.32	17.71	0.00	17.71	0.00	1.88	0.11	0.00	1.98	0.00	58.0	0.0	0.	0.00
217	13.400	31.80	0.0	0.0	0.0	7.35	17.67	0.00	17.67	0.00	1.88	0.11	0.00	1.98	0.00	57.5	0.0	0.	0.00
218	13.300	31.80	0.0	0.0	0.0	7.37	17.63	0.00	17.63	0.00	1.88	0.11	0.00	1.98	0.00	57.0	0.0	0.	0.00

219	13.200	31.80	0.0	0.0	0.0	7.40	17.59	0.00	17.59	0.00	1.87	0.11	0.00	1.98	0.00	56.5	0.0	0.	0.00
220	13.100	31.80	0.0	0.0	0.0	7.43	17.56	0.00	17.56	0.00	1.87	0.11	0.00	1.98	0.00	56.0	0.0	0.	0.00
221	13.000	31.80	0.0	0.0	0.0	7.45	17.52	0.00	17.52	0.00	1.87	0.11	0.00	1.98	0.00	55.5	0.0	0.	0.00
222	12.900	31.80	0.0	0.0	0.0	7.48	17.48	0.00	17.48	0.00	1.87	0.11	0.00	1.98	0.00	55.0	0.0	0.	0.00
223	12.800	31.80	0.0	0.0	0.0	7.50	17.44	0.00	17.44	0.00	1.87	0.11	0.00	1.98	0.00	54.5	0.0	0.	0.00
224	12.700	31.80	0.0	0.0	0.0	7.52	17.40	0.00	17.40	0.00	1.87	0.11	0.00	1.97	0.00	54.0	0.0	0.	0.00
225	12.600	31.80	0.0	0.0	0.0	7.54	17.36	0.00	17.36	0.00	1.87	0.11	0.00	1.97	0.00	53.5	0.0	0.	0.00
226	12.500	31.80	0.0	0.0	0.0	7.56	17.32	0.00	17.32	0.00	1.86	0.11	0.00	1.97	0.00	53.0	0.0	0.	0.00
227	12.400	31.80	0.0	0.0	0.0	7.58	17.29	0.00	17.29	0.00	1.86	0.11	0.00	1.97	0.00	52.5	0.0	0.	0.00
228	12.300	31.80	0.0	0.0	0.0	7.59	17.25	0.00	17.25	0.00	1.86	0.11	0.00	1.97	0.00	52.0	0.0	0.	0.00
229	12.200	31.80	0.0	0.0	0.0	7.61	17.21	0.00	17.21	0.00	1.86	0.11	0.00	1.97	0.00	51.5	0.0	0.	0.00
230	12.100	31.80	0.0	0.0	0.0	7.63	17.17	0.00	17.17	0.00	1.86	0.11	0.00	1.97	0.00	51.0	0.0	0.	0.00
231	12.000	31.80	0.0	0.0	0.0	7.64	17.13	0.00	17.13	0.00	1.86	0.11	0.00	1.96	0.00	50.5	0.0	0.	0.00
232	11.900	31.80	0.0	0.0	0.0	7.65	17.09	0.00	17.09	0.00	1.86	0.11	0.00	1.96	0.00	50.0	0.0	0.	0.00
233	11.800	31.80	0.0	0.0	0.0	7.67	17.06	0.00	17.06	0.00	1.85	0.11	0.00	1.96	0.00	49.5	0.0	0.	0.00
234	11.700	31.80	0.0	0.0	0.0	7.68	17.02	0.00	17.02	0.00	1.85	0.11	0.00	1.96	0.00	49.0	0.0	0.	0.00
235	11.600	31.80	0.0	0.0	0.0	7.69	16.98	0.00	16.98	0.00	1.85	0.11	0.00	1.96	0.00	48.5	0.0	0.	0.00
236	11.500	31.80	0.0	0.0	0.0	7.70	16.94	0.00	16.94	0.00	1.85	0.11	0.00	1.96	0.00	48.0	0.0	0.	0.00
237	11.400	31.80	0.0	0.0	0.0	7.70	16.91	0.00	16.91	0.00	1.85	0.11	0.00	1.96	0.00	47.5	0.0	0.	0.00
238	11.300	31.80	0.0	0.0	0.0	7.71	16.87	0.00	16.87	0.00	1.85	0.11	0.00	1.95	0.00	47.0	0.0	0.	0.00
239	11.200	31.80	0.0	0.0	0.0	7.72	16.83	0.00	16.83	0.00	1.85	0.11	0.00	1.95	0.00	46.5	0.0	0.	0.00
240	11.100	31.80	0.0	0.0	0.0	7.72	16.79	0.00	16.79	0.00	1.84	0.11	0.00	1.95	0.00	46.0	0.0	0.	0.00
241	11.000	31.80	0.0	0.0	0.0	7.73	16.76	0.00	16.76	0.00	1.84	0.11	0.00	1.95	0.00	45.5	0.0	0.	0.00
242	10.900	31.80	0.0	0.0	0.0	7.73	16.72	0.00	16.72	0.00	1.84	0.11	0.00	1.95	0.00	45.0	0.0	0.	0.00
243	10.800	31.80	0.0	0.0	0.0	7.73	16.68	0.00	16.68	0.00	1.84	0.11	0.00	1.95	0.00	44.5	0.0	0.	0.00
244	10.700	31.80	0.0	0.0	0.0	7.73	16.65	0.00	16.65	0.00	1.84	0.11	0.00	1.95	0.00	44.0	0.0	0.	0.00
245	10.600	31.80	0.0	0.0	0.0	7.74	16.61	0.00	16.61	0.00	1.84	0.11	0.00	1.95	0.00	43.5	0.0	0.	0.00
246	10.500	31.80	0.0	0.0	0.0	7.74	16.57	0.00	16.57	0.00	1.83	0.11	0.00	1.94	0.00	43.0	0.0	0.	0.00
247	10.400	31.80	0.0	0.0	0.0	7.73	16.54	0.00	16.54	0.00	1.83	0.11	0.00	1.94	0.00	42.5	0.0	0.	0.00
248	10.300	31.80	0.0	0.0	0.0	7.73	16.50	0.00	16.50	0.00	1.83	0.11	0.00	1.94	0.00	42.0	0.0	0.	0.00
249	10.200	31.80	0.0	0.0	0.0	7.73	16.46	0.00	16.46	0.00	1.83	0.11	0.00	1.94	0.00	41.5	0.0	0.	0.00
250	10.100	31.80	0.0	0.0	0.0	7.73	16.43	0.00	16.43	0.00	1.83	0.11	0.00	1.94	0.00	41.0	0.0	0.	0.00
251	10.000	31.80	0.0	0.0	0.0	7.72	16.39	0.00	16.39	0.00	1.83	0.11	0.00	1.94	0.00	40.5	0.0	0.	0.00
252	9.900	31.80	0.0	0.0	0.0	7.72	16.36	0.00	16.36	0.00	1.83	0.11	0.00	1.94	0.00	40.0	0.0	0.	0.00
253	9.800	31.80	0.0	0.0	0.0	7.71	16.33	0.00	16.33	0.00	1.83	0.11	0.00	1.93	0.00	39.7	0.0	0.	0.00
254	9.700	31.80	0.0	0.0	0.0	7.71	16.28	0.00	16.28	0.00	1.82	0.11	0.00	1.93	0.00	39.5	0.0	0.	0.00
255	9.600	31.80	0.0	0.0	0.0	7.70	16.22	0.00	16.22	0.00	1.82	0.11	0.00	1.93	0.00	39.2	0.0	0.	0.00
256	9.500	31.80	0.0	0.0	0.0	7.69	16.16	0.00	16.16	0.00	1.82	0.11	0.00	1.93	0.00	39.0	0.0	0.	0.00
257	9.400	31.80	0.0	0.0	0.0	7.67	16.10	0.00	16.10	0.00	1.82	0.11	0.00	1.93	0.00	38.7	0.0	0.	0.00
258	9.300	31.80	0.0	0.0	0.0	7.66	16.05	0.00	16.05	0.00	1.81	0.11	0.00	1.92	0.00	38.5	0.0	0.	0.00
259	9.200	31.80	0.0	0.0	0.0	7.65	15.99	0.00	15.99	0.00	1.81	0.11	0.00	1.92	0.00	38.2	0.0	0.	0.00
260	9.100	31.80	0.0	0.0	0.0	7.64	15.93	0.00	15.93	0.00	1.81	0.11	0.00	1.92	0.00	38.0	0.0	0.	0.00
261	9.000	31.80	0.0	0.0	0.0	7.63	15.88	0.00	15.88	0.00	1.81	0.11	0.00	1.92	0.00	37.7	0.0	0.	0.00
262	8.900	31.80	0.0	0.0	0.0	7.62	15.82	0.00	15.82	0.00	1.80	0.11	0.00	1.91	0.00	37.5	0.0	0.	0.00
263	8.800	31.80	0.0	0.0	0.0	7.60	15.77	0.00	15.77	0.00	1.80	0.11	0.00	1.91	0.00	37.2	0.0	0.	0.00
264	8.700	31.80	0.0	0.0	0.0	7.59	15.71	0.00	15.71	0.00	1.80	0.11	0.00	1.91	0.00	37.0	0.0	0.	0.00
265	8.600	31.80	0.0	0.0	0.0	7.58	15.65	0.00	15.65	0.00	1.80	0.11	0.00	1.91	0.00	36.7	0.0	0.	0.00
266	8.500	31.80	0.0	0.0	0.0	7.56	15.60	0.00	15.60	0.00	1.79	0.11	0.00	1.91	0.00	36.4	0.0	0.	0.00
267	8.400	31.80	0.0	0.0	0.0	7.55	15.54	0.00	15.54	0.00	1.79	0.11	0.00	1.90	0.00	36.2	0.0	0.	0.00
268	8.300	31.80	0.0	0.0	0.0	7.53	15.49	0.00	15.49	0.00	1.79	0.11	0.00	1.90	0.00	35.9	0.0	0.	0.00

269	8.200	31.80	0.0	0.0	0.0	7.52	15.44	0.00	15.44	0.00	1.79	0.11	0.00	1.90	0.00	35.7	0.0	0. 0.00
270	8.100	31.80	0.0	0.0	0.0	7.50	15.38	0.00	15.38	0.00	1.79	0.11	0.00	1.90	0.00	35.4	0.0	0. 0.00
271	8.000	31.80	0.0	0.0	0.0	7.49	15.33	0.00	15.33	0.00	1.78	0.11	0.00	1.89	0.00	35.2	0.0	0. 0.00
272	7.900	31.80	0.0	0.0	0.0	7.47	15.27	0.00	15.27	0.00	1.78	0.11	0.00	1.89	0.00	34.9	0.0	0. 0.00
273	7.800	31.80	0.0	0.0	0.0	7.46	15.22	0.00	15.22	0.00	1.78	0.11	0.00	1.89	0.00	34.7	0.0	0. 0.00
274	7.700	31.80	0.0	0.0	0.0	7.44	15.17	0.00	15.17	0.00	1.78	0.11	0.00	1.89	0.00	34.4	0.0	0. 0.00
275	7.600	31.80	0.0	0.0	0.0	7.42	15.11	0.00	15.11	0.00	1.77	0.11	0.00	1.89	0.00	34.2	0.0	0. 0.00
276	7.500	31.80	0.0	0.0	0.0	7.40	15.06	0.00	15.06	0.00	1.77	0.11	0.00	1.88	0.00	33.9	0.0	0. 0.00
277	7.400	31.80	0.0	0.0	0.0	7.39	15.01	0.00	15.01	0.00	1.77	0.11	0.00	1.88	0.00	33.7	0.0	0. 0.00
278	7.300	31.80	0.0	0.0	0.0	7.37	14.95	0.00	14.95	0.00	1.77	0.11	0.00	1.88	0.00	33.4	0.0	0. 0.00
279	7.200	31.80	0.0	0.0	0.0	7.35	14.90	0.00	14.90	0.00	1.76	0.11	0.00	1.88	0.00	33.1	0.0	0. 0.00
280	7.100	31.80	0.0	0.0	0.0	7.33	14.85	0.00	14.85	0.00	1.76	0.11	0.00	1.87	0.00	32.9	0.0	0. 0.00
281	7.000	31.80	0.0	0.0	0.0	7.31	14.80	0.00	14.80	0.00	1.76	0.11	0.00	1.87	0.00	32.6	0.0	0. 0.00
282	6.900	31.80	0.0	0.0	0.0	7.30	14.74	0.00	14.74	0.00	1.76	0.11	0.00	1.87	0.00	32.4	0.0	0. 0.00
283	6.800	31.80	0.0	0.0	0.0	7.28	14.69	0.00	14.69	0.00	1.76	0.11	0.00	1.87	0.00	32.1	0.0	0. 0.00
284	6.700	31.80	0.0	0.0	0.0	7.26	14.64	0.00	14.64	0.00	1.75	0.11	0.00	1.87	0.00	31.9	0.0	0. 0.00
285	6.600	31.80	0.0	0.0	0.0	7.24	14.59	0.00	14.59	0.00	1.75	0.11	0.00	1.86	0.00	31.6	0.0	0. 0.00
286	6.500	31.80	0.0	0.0	0.0	7.22	14.54	0.00	14.54	0.00	1.75	0.11	0.00	1.86	0.00	31.4	0.0	0. 0.00
287	6.400	31.80	0.0	0.0	0.0	7.20	14.49	0.00	14.49	0.00	1.75	0.11	0.00	1.86	0.00	31.1	0.0	0. 0.00
288	6.300	31.80	0.0	0.0	0.0	7.18	14.44	0.00	14.44	0.00	1.74	0.11	0.00	1.86	0.00	30.9	0.0	0. 0.00
289	6.200	31.80	0.0	0.0	0.0	7.16	14.39	0.00	14.39	0.00	1.74	0.11	0.00	1.85	0.00	30.6	0.0	0. 0.00
290	6.100	31.80	0.0	0.0	0.0	7.14	14.34	0.00	14.34	0.00	1.74	0.11	0.00	1.85	0.00	30.3	0.0	0. 0.00
291	6.000	31.80	0.0	0.0	0.0	7.11	14.29	0.00	14.29	0.00	1.74	0.11	0.00	1.85	0.00	30.1	0.0	0. 0.00
292	5.900	31.80	0.0	0.0	0.0	7.09	14.24	0.00	14.24	0.00	1.74	0.11	0.00	1.85	0.00	29.8	0.0	0. 0.00
293	5.800	31.80	0.0	0.0	0.0	7.07	14.19	0.00	14.19	0.00	1.73	0.11	0.00	1.85	0.00	29.6	0.0	0. 0.00
294	5.700	31.80	0.0	0.0	0.0	7.05	14.14	0.00	14.14	0.00	1.73	0.11	0.00	1.84	0.00	29.3	0.0	0. 0.00
295	5.600	31.80	0.0	0.0	0.0	7.03	14.09	0.00	14.09	0.00	1.73	0.11	0.00	1.84	0.00	29.1	0.0	0. 0.00
296	5.500	31.80	0.0	0.0	0.0	7.01	14.04	0.00	14.04	0.00	1.73	0.11	0.00	1.84	0.00	28.8	0.0	0. 0.00
297	5.400	31.80	0.0	0.0	0.0	6.98	13.99	0.00	13.99	0.00	1.72	0.11	0.00	1.84	0.00	28.6	0.0	0. 0.00
298	5.300	31.80	0.0	0.0	0.0	6.96	13.94	0.00	13.94	0.00	1.72	0.11	0.00	1.84	0.00	28.3	0.0	0. 0.00
299	5.200	31.80	0.0	0.0	0.0	6.94	13.89	0.00	13.89	0.00	1.72	0.11	0.00	1.83	0.00	28.1	0.0	0. 0.00
300	5.100	31.80	0.0	0.0	0.0	6.92	13.85	0.00	13.85	0.00	1.72	0.11	0.00	1.83	0.00	27.8	0.0	0. 0.00
301	5.000	31.80	0.0	0.0	0.0	6.89	13.80	0.00	13.80	0.00	1.72	0.11	0.00	1.83	0.00	27.6	0.0	0. 0.00
302	4.900	31.80	0.0	0.0	0.0	6.87	13.75	0.00	13.75	0.00	1.71	0.11	0.00	1.83	0.00	27.3	0.0	0. 0.00
303	4.800	31.80	0.0	0.0	0.0	6.85	13.70	0.00	13.70	0.00	1.71	0.11	0.00	1.82	0.00	27.0	0.0	0. 0.00
304	4.700	31.80	0.0	0.0	0.0	6.82	13.65	0.00	13.65	0.00	1.71	0.11	0.00	1.82	0.00	26.8	0.0	0. 0.00
305	4.600	31.80	0.0	0.0	0.0	6.80	13.61	0.00	13.61	0.00	1.71	0.11	0.00	1.82	0.00	26.5	0.0	0. 0.00
306	4.500	31.80	0.0	0.0	0.0	6.77	13.56	0.00	13.56	0.00	1.70	0.11	0.00	1.82	0.00	26.3	0.0	0. 0.00
307	4.400	31.80	0.0	0.0	0.0	6.75	13.51	0.00	13.51	0.00	1.70	0.11	0.00	1.82	0.00	26.0	0.0	0. 0.00
308	4.300	31.80	0.0	0.0	0.0	6.72	13.47	0.00	13.47	0.00	1.70	0.11	0.00	1.81	0.00	25.8	0.0	0. 0.00
309	4.200	31.80	0.0	0.0	0.0	6.70	13.42	0.00	13.42	0.00	1.70	0.11	0.00	1.81	0.00	25.5	0.0	0. 0.00
310	4.100	31.80	0.0	0.0	0.0	6.67	13.37	0.00	13.37	0.00	1.70	0.11	0.00	1.81	0.00	25.3	0.0	0. 0.00
311	4.000	31.80	0.0	0.0	0.0	6.65	13.33	0.00	13.33	0.00	1.69	0.11	0.00	1.81	0.00	25.0	0.0	0. 0.00
312	3.900	31.80	0.0	0.0	0.0	6.62	13.28	0.00	13.28	0.00	1.69	0.11	0.00	1.81	0.00	24.8	0.0	0. 0.00
313	3.800	31.80	0.0	0.0	0.0	6.60	13.23	0.00	13.23	0.00	1.69	0.11	0.00	1.80	0.00	24.5	0.0	0. 0.00
314	3.700	31.80	0.0	0.0	0.0	6.57	13.19	0.00	13.19	0.00	1.69	0.11	0.00	1.80	0.00	24.3	0.0	0. 0.00
315	3.600	31.80	0.0	0.0	0.0	6.55	13.14	0.00	13.14	0.00	1.69	0.11	0.00	1.80	0.00	24.0	0.0	0. 0.00
316	3.500	31.82	0.0	0.0	0.0	6.51	13.08	0.00	13.08	0.00	1.68	0.11	0.00	1.80	0.00	24.0	0.0	0. 0.00
317	3.400	31.83	0.0	0.0	0.0	6.48	13.02	0.00	13.02	0.00	1.68	0.11	0.00	1.79	0.00	24.0	0.0	0. 0.00
318	3.300	31.85	0.0	0.0	0.0	6.45	12.96	0.00	12.96	0.00	1.68	0.11	0.00	1.79	0.00	24.0	0.0	0. 0.00

319	3.200	31.87	0.0	0.0	0.0	6.42	12.90	0.00	12.90	0.00	1.67	0.11	0.00	1.79	0.00	24.0	0.0	0.	0.00	
320	3.100	31.88	0.0	0.0	0.0	6.39	12.84	0.00	12.84	0.00	1.67	0.11	0.00	1.78	0.00	24.0	0.0	0.	0.00	
321	3.000	31.90	0.0	0.0	0.0	6.36	12.79	0.00	12.79	0.00	1.67	0.11	0.00	1.78	0.00	24.0	0.0	0.	0.00	
322	2.900	31.92	0.0	0.0	0.0	6.34	12.73	0.00	12.73	0.00	1.66	0.11	0.00	1.78	0.00	24.0	0.0	0.	0.00	
323	2.800	31.93	0.0	0.0	0.0	6.31	12.67	0.00	12.67	0.00	1.66	0.11	0.00	1.77	0.00	24.0	0.0	0.	0.00	
324	2.700	31.95	0.0	0.0	0.0	6.28	12.61	0.00	12.61	0.00	1.66	0.11	0.00	1.77	0.00	24.0	0.0	0.	0.00	
325	2.600	31.97	0.0	0.0	0.0	6.26	12.56	0.00	12.56	0.00	1.65	0.11	0.00	1.77	0.00	24.0	0.0	0.	0.00	
326	2.500	31.98	0.0	0.0	0.0	6.23	12.50	0.00	12.50	0.00	1.65	0.11	0.00	1.76	0.00	24.0	0.0	0.	0.00	
327	2.400	32.00	0.0	0.0	0.0	6.21	12.44	0.00	12.44	0.00	1.65	0.11	0.00	1.76	0.00	24.0	0.0	0.	0.00	
328	2.300	32.02	0.0	0.0	0.0	6.19	12.39	0.00	12.39	0.00	1.65	0.11	0.00	1.76	0.00	24.0	0.0	0.	0.00	
329	2.200	32.03	0.0	0.0	0.0	6.16	12.33	0.00	12.33	0.00	1.64	0.11	0.00	1.76	0.00	24.0	0.0	0.	0.00	
330	2.100	32.05	0.0	0.0	0.0	6.14	12.28	0.00	12.28	0.00	1.64	0.11	0.00	1.75	0.00	24.0	0.0	0.	0.00	
331	2.000	32.07	0.0	0.0	0.0	6.12	12.22	0.00	12.22	0.00	1.64	0.11	0.00	1.75	0.00	24.0	0.0	0.	0.00	
332	1.900	32.08	0.0	0.0	0.0	6.10	12.17	0.00	12.17	0.00	1.63	0.11	0.00	1.75	0.00	24.0	0.0	0.	0.00	
333	1.800	32.10	0.0	0.0	0.0	6.08	12.11	0.00	12.11	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0.	0.00	
334	1.700	32.12	0.0	0.0	0.0	6.06	12.06	0.00	12.06	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0.	0.00	
335	1.600	32.13	0.0	0.0	0.0	6.04	12.01	0.00	12.01	0.00	1.62	0.11	0.00	1.74	0.00	24.0	0.0	0.	0.00	
336	1.500	32.15	0.0	0.0	0.0	6.02	11.95	0.00	11.95	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00	
337	1.400	32.17	0.0	0.0	0.0	6.01	11.90	0.00	11.90	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00	
338	1.300	32.18	0.0	0.0	0.0	5.99	11.85	0.00	11.85	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00	
339	1.200	32.20	0.0	0.0	0.0	5.97	11.79	0.00	11.79	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00	
340	1.100	32.22	0.0	0.0	0.0	5.96	11.74	0.00	11.74	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00	
341	1.000	32.23	0.0	0.0	0.0	5.94	11.69	0.00	11.69	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00	
342	0.900	32.25	0.0	0.0	0.0	5.93	11.63	0.00	11.63	0.00	1.60	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00	
343	0.800	32.27	0.0	0.0	0.0	5.91	11.58	0.00	11.58	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00	
344	0.700	32.28	0.0	0.0	0.0	5.90	11.49	0.00	11.49	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00	
345	0.600	32.30	0.0	0.0	0.0	5.92	11.20	0.00	11.20	0.00	1.66	0.11	0.00	1.77	0.00	24.0	0.0	0.	0.00	
526	0.500	32.28	0.0	0.0	0.0	6.15	9.10	0.00	9.10	0.00	2.12	0.13	0.00	2.24	0.00	24.0	0.0	0.	0.00	
527	0.400	32.27	0.0	0.0	0.0	6.15	9.09	0.00	9.09	0.00	2.12	0.13	0.00	2.24	0.00	24.0	0.0	0.	0.00	
528	0.300	32.25	0.0	0.0	0.0	6.14	9.08	0.00	9.08	0.00	2.12	0.13	0.00	2.24	0.00	24.0	0.0	0.	0.00	
529	0.200	32.23	0.0	0.0	0.0	6.14	9.07	0.00	9.07	0.00	2.12	0.13	0.00	2.24	0.00	24.0	0.0	0.	0.00	
530	0.100	32.22	0.0	0.0	0.0	6.14	9.02	0.00	9.02	0.00	2.10	0.13	0.00	2.23	0.00	24.0	0.0	0.	0.00	
531	0.000	32.20	0.0	0.0	0.0	6.13	8.31	0.00	8.31	0.00	1.89	0.12	0.00	2.01	0.00	24.0	0.0	0.	0.00	

SPECIAL REPORT: Station 935

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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	CHL A *	MACRO	COLI #/100mL	NCM
346	17.900	31.48	0.0	0.0	0.0	4.91	2.95	0.00	2.95	0.00	0.86	0.10	0.00	0.96	0.00	10.0	0.0	0.	0.00
347	17.800	31.45	0.0	0.0	0.0	4.90	2.54	0.00	2.54	0.00	0.82	0.10	0.00	0.92	0.00	10.0	0.0	0.	0.00
348	17.700	31.43	0.0	0.0	0.0	4.94	2.19	0.00	2.19	0.00	0.78	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
349	17.600	31.41	0.0	0.0	0.0	4.98	1.89	0.00	1.89	0.00	0.75	0.09	0.00	0.84	0.00	10.0	0.0	0.	0.00
350	17.500	31.39	0.0	0.0	0.0	5.04	1.63	0.00	1.63	0.00	0.71	0.09	0.00	0.80	0.00	10.0	0.0	0.	0.00
351	17.400	31.36	0.0	0.0	0.0	5.09	1.40	0.00	1.40	0.00	0.68	0.08	0.00	0.76	0.00	10.0	0.0	0.	0.00
352	17.300	31.34	0.0	0.0	0.0	5.14	1.21	0.00	1.21	0.00	0.65	0.08	0.00	0.73	0.00	10.0	0.0	0.	0.00
353	17.200	31.32	0.0	0.0	0.0	5.18	1.04	0.00	1.04	0.00	0.62	0.08	0.00	0.70	0.00	10.0	0.0	0.	0.00
354	17.100	31.30	0.0	0.0	0.0	5.22	0.90	0.00	0.90	0.00	0.59	0.07	0.00	0.67	0.00	10.0	0.0	0.	0.00
355	17.000	31.27	0.0	0.0	0.0	5.26	0.78	0.00	0.78	0.00	0.57	0.07	0.00	0.64	0.00	10.0	0.0	0.	0.00
356	16.900	31.25	0.0	0.0	0.0	5.29	0.67	0.00	0.67	0.00	0.54	0.07	0.00	0.61	0.00	10.0	0.0	0.	0.00
357	16.800	31.23	0.0	0.0	0.0	5.32	0.58	0.00	0.58	0.00	0.52	0.06	0.00	0.58	0.00	10.0	0.0	0.	0.00
358	16.700	31.20	0.0	0.0	0.0	5.35	0.50	0.00	0.50	0.00	0.49	0.06	0.00	0.55	0.00	10.0	0.0	0.	0.00

359	16.600	31.18	0.0	0.0	0.0	5.38	0.43	0.00	0.43	0.00	0.47	0.06	0.00	0.53	0.00	10.0	0.0	0.	0.00
360	16.500	31.16	0.0	0.0	0.0	5.40	0.37	0.00	0.37	0.00	0.45	0.06	0.00	0.50	0.00	10.0	0.0	0.	0.00
361	16.400	31.14	0.0	0.0	0.0	5.42	0.32	0.00	0.32	0.00	0.43	0.05	0.00	0.48	0.00	10.0	0.0	0.	0.00
362	16.300	31.11	0.0	0.0	0.0	5.44	0.28	0.00	0.28	0.00	0.41	0.05	0.00	0.46	0.00	10.0	0.0	0.	0.00
363	16.200	31.09	0.0	0.0	0.0	5.46	0.24	0.00	0.24	0.00	0.39	0.05	0.00	0.44	0.00	10.0	0.0	0.	0.00
364	16.100	31.07	0.0	0.0	0.0	5.48	0.21	0.00	0.21	0.00	0.37	0.05	0.00	0.42	0.00	10.0	0.0	0.	0.00
365	16.000	31.05	0.0	0.0	0.0	5.49	0.18	0.00	0.18	0.00	0.36	0.04	0.00	0.40	0.00	10.0	0.0	0.	0.00
366	15.900	31.02	0.0	0.0	0.0	5.51	0.15	0.00	0.15	0.00	0.34	0.04	0.00	0.38	0.00	10.0	0.0	0.	0.00
367	15.800	31.00	0.0	0.0	0.0	5.52	0.13	0.00	0.13	0.00	0.32	0.04	0.00	0.37	0.00	10.0	0.0	0.	0.00
368	15.700	31.00	0.0	0.0	0.0	7.03	2.80	0.00	2.80	0.00	0.74	0.08	0.00	0.82	0.00	10.0	0.0	0.	0.00
369	15.600	31.00	0.0	0.0	0.0	7.03	2.93	0.00	2.93	0.00	0.77	0.08	0.00	0.86	0.00	10.0	0.0	0.	0.00
370	15.500	31.00	0.0	0.0	0.0	7.03	2.96	0.00	2.96	0.00	0.78	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
371	15.400	31.00	0.0	0.0	0.0	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
372	15.300	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
373	15.200	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
374	15.100	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
375	15.000	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
376	14.900	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
377	14.800	31.04	0.0	0.0	0.0	6.26	3.60	0.00	3.60	0.00	1.06	0.09	0.00	1.16	0.00	11.2	0.0	0.	0.00
378	14.700	31.08	0.0	0.0	0.0	5.93	4.05	0.00	4.05	0.00	1.27	0.10	0.00	1.37	0.00	12.3	0.0	0.	0.00
379	14.600	31.12	0.0	0.0	0.0	5.79	4.38	0.00	4.38	0.00	1.43	0.11	0.00	1.54	0.00	13.5	0.0	0.	0.00
380	14.500	31.15	0.0	0.0	0.0	5.76	4.63	0.00	4.63	0.00	1.56	0.12	0.00	1.68	0.00	14.6	0.0	0.	0.00
381	14.400	31.19	0.0	0.0	0.0	5.77	4.82	0.00	4.82	0.00	1.67	0.13	0.00	1.80	0.00	15.8	0.0	0.	0.00
382	14.300	31.23	0.0	0.0	0.0	5.82	4.98	0.00	4.98	0.00	1.75	0.13	0.00	1.89	0.00	16.9	0.0	0.	0.00
383	14.200	31.27	0.0	0.0	0.0	5.88	5.10	0.00	5.10	0.00	1.82	0.14	0.00	1.96	0.00	18.1	0.0	0.	0.00
384	14.100	31.31	0.0	0.0	0.0	5.96	5.19	0.00	5.19	0.00	1.88	0.15	0.00	2.03	0.00	19.2	0.0	0.	0.00
385	14.000	31.35	0.0	0.0	0.0	6.04	5.27	0.00	5.27	0.00	1.93	0.15	0.00	2.08	0.00	20.4	0.0	0.	0.00
386	13.900	31.38	0.0	0.0	0.0	6.13	5.34	0.00	5.34	0.00	1.98	0.15	0.00	2.13	0.00	21.5	0.0	0.	0.00
387	13.800	31.42	0.0	0.0	0.0	6.22	5.39	0.00	5.39	0.00	2.01	0.16	0.00	2.17	0.00	22.7	0.0	0.	0.00
388	13.700	31.46	0.0	0.0	0.0	6.31	5.43	0.00	5.43	0.00	2.05	0.16	0.00	2.21	0.00	23.8	0.0	0.	0.00
389	13.600	31.50	0.0	0.0	0.0	6.41	5.47	0.00	5.47	0.00	2.07	0.16	0.00	2.24	0.00	25.0	0.0	0.	0.00
390	13.500	31.50	0.0	0.0	0.0	6.29	5.50	0.00	5.50	0.00	2.06	0.16	0.00	2.22	0.00	26.4	0.0	0.	0.00
391	13.400	31.50	0.0	0.0	0.0	6.18	5.53	0.00	5.53	0.00	2.04	0.16	0.00	2.20	0.00	27.9	0.0	0.	0.00
392	13.300	31.50	0.0	0.0	0.0	6.09	5.56	0.00	5.56	0.00	2.03	0.16	0.00	2.19	0.00	29.3	0.0	0.	0.00
393	13.200	31.50	0.0	0.0	0.0	6.01	5.59	0.00	5.59	0.00	2.01	0.16	0.00	2.17	0.00	30.8	0.0	0.	0.00
394	13.100	31.50	0.0	0.0	0.0	5.95	5.61	0.00	5.61	0.00	2.00	0.16	0.00	2.15	0.00	32.2	0.0	0.	0.00
395	13.000	31.50	0.0	0.0	0.0	5.90	5.64	0.00	5.64	0.00	1.98	0.15	0.00	2.14	0.00	33.7	0.0	0.	0.00
396	12.900	31.50	0.0	0.0	0.0	5.86	5.67	0.00	5.67	0.00	1.97	0.15	0.00	2.12	0.00	35.1	0.0	0.	0.00
397	12.800	31.50	0.0	0.0	0.0	5.84	5.69	0.00	5.69	0.00	1.95	0.15	0.00	2.10	0.00	36.6	0.0	0.	0.00
398	12.700	31.50	0.0	0.0	0.0	5.83	5.72	0.00	5.72	0.00	1.94	0.15	0.00	2.09	0.00	38.0	0.0	0.	0.00
399	12.600	31.50	0.0	0.0	0.0	5.82	5.74	0.00	5.74	0.00	1.93	0.15	0.00	2.08	0.00	38.0	0.0	0.	0.00
400	12.500	31.50	0.0	0.0	0.0	5.81	5.75	0.00	5.75	0.00	1.93	0.15	0.00	2.08	0.00	38.0	0.0	0.	0.00
401	12.400	31.50	0.0	0.0	0.0	5.81	5.76	0.00	5.76	0.00	1.92	0.15	0.00	2.07	0.00	38.0	0.0	0.	0.00
402	12.300	31.50	0.0	0.0	0.0	5.80	5.78	0.00	5.78	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
403	12.200	31.50	0.0	0.0	0.0	5.80	5.79	0.00	5.79	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
404	12.100	31.50	0.0	0.0	0.0	5.79	5.81	0.00	5.81	0.00	1.90	0.15	0.00	2.05	0.00	38.0	0.0	0.	0.00
405	12.000	31.50	0.0	0.0	0.0	5.78	5.82	0.00	5.82	0.00	1.89	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
406	11.900	31.50	0.0	0.0	0.0	5.78	5.83	0.00	5.83	0.00	1.89	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
407	11.800	31.50	0.0	0.0	0.0	5.77	5.85	0.00	5.85	0.00	1.88	0.15	0.00	2.03	0.00	38.0	0.0	0.	0.00
408	11.700	31.50	0.0	0.0	0.0	5.77	5.86	0.00	5.86	0.00	1.88	0.15	0.00	2.02	0.00	38.0	0.0	0.	0.00

409	11.600	31.50	0.0	0.0	0.0	5.76	5.87	0.00	5.87	0.00	1.87	0.15	0.00	2.02	0.00	38.0	0.0	0. 0.00
410	11.500	31.50	0.0	0.0	0.0	5.76	5.89	0.00	5.89	0.00	1.86	0.14	0.00	2.01	0.00	38.0	0.0	0. 0.00
411	11.400	31.50	0.0	0.0	0.0	5.75	5.90	0.00	5.90	0.00	1.86	0.14	0.00	2.00	0.00	38.0	0.0	0. 0.00
412	11.300	31.50	0.0	0.0	0.0	5.75	5.91	0.00	5.91	0.00	1.85	0.14	0.00	2.00	0.00	38.0	0.0	0. 0.00
413	11.200	31.50	0.0	0.0	0.0	5.74	5.92	0.00	5.92	0.00	1.85	0.14	0.00	1.99	0.00	38.0	0.0	0. 0.00
414	11.100	31.50	0.0	0.0	0.0	5.74	5.94	0.00	5.94	0.00	1.84	0.14	0.00	1.99	0.00	38.0	0.0	0. 0.00
415	11.000	31.50	0.0	0.0	0.0	5.74	5.95	0.00	5.95	0.00	1.84	0.14	0.00	1.98	0.00	38.0	0.0	0. 0.00
416	10.900	31.50	0.0	0.0	0.0	5.73	5.96	0.00	5.96	0.00	1.83	0.14	0.00	1.97	0.00	38.0	0.0	0. 0.00
417	10.800	31.50	0.0	0.0	0.0	5.73	5.97	0.00	5.97	0.00	1.83	0.14	0.00	1.97	0.00	38.0	0.0	0. 0.00
418	10.700	31.50	0.0	0.0	0.0	5.70	6.00	0.00	6.00	0.00	1.82	0.14	0.00	1.96	0.00	38.0	0.0	0. 0.00
419	10.600	31.50	0.0	0.0	0.0	5.67	6.03	0.00	6.03	0.00	1.81	0.14	0.00	1.95	0.00	38.0	0.0	0. 0.00
420	10.500	31.50	0.0	0.0	0.0	5.65	6.05	0.00	6.05	0.00	1.80	0.14	0.00	1.94	0.00	38.0	0.0	0. 0.00
421	10.400	31.50	0.0	0.0	0.0	5.62	6.08	0.00	6.08	0.00	1.80	0.14	0.00	1.94	0.00	38.0	0.0	0. 0.00
422	10.300	31.50	0.0	0.0	0.0	5.60	6.10	0.00	6.10	0.00	1.79	0.14	0.00	1.93	0.00	38.0	0.0	0. 0.00
423	10.200	31.50	0.0	0.0	0.0	5.58	6.13	0.00	6.13	0.00	1.78	0.14	0.00	1.92	0.00	38.0	0.0	0. 0.00
424	10.100	31.50	0.0	0.0	0.0	5.55	6.15	0.00	6.15	0.00	1.78	0.14	0.00	1.92	0.00	38.0	0.0	0. 0.00
425	10.000	31.50	0.0	0.0	0.0	5.53	6.17	0.00	6.17	0.00	1.77	0.14	0.00	1.91	0.00	38.0	0.0	0. 0.00
426	9.900	31.50	0.0	0.0	0.0	5.51	6.20	0.00	6.20	0.00	1.76	0.14	0.00	1.90	0.00	38.0	0.0	0. 0.00
427	9.800	31.50	0.0	0.0	0.0	5.49	6.22	0.00	6.22	0.00	1.76	0.14	0.00	1.89	0.00	38.0	0.0	0. 0.00
428	9.700	31.50	0.0	0.0	0.0	5.47	6.25	0.00	6.25	0.00	1.75	0.14	0.00	1.89	0.00	38.0	0.0	0. 0.00
429	9.600	31.50	0.0	0.0	0.0	5.45	6.27	0.00	6.27	0.00	1.75	0.14	0.00	1.88	0.00	38.0	0.0	0. 0.00
430	9.500	31.50	0.0	0.0	0.0	5.42	6.36	0.00	6.36	0.00	1.78	0.13	0.00	1.92	0.00	38.0	0.0	0. 0.00
431	9.400	31.50	0.0	0.0	0.0	5.26	8.06	0.00	8.06	0.00	2.82	0.09	0.00	2.92	0.00	38.0	0.0	0. 0.00
432	9.300	31.50	0.0	0.0	0.0	5.29	8.05	0.00	8.05	0.00	2.82	0.10	0.00	2.92	0.00	38.0	0.0	0. 0.00
433	9.200	31.57	0.0	0.0	0.0	5.31	8.03	0.00	8.03	0.00	2.82	0.10	0.00	2.92	0.00	38.0	0.0	0. 0.00
434	9.100	31.63	0.0	0.0	0.0	5.34	8.02	0.00	8.02	0.00	2.82	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
435	9.000	31.70	0.0	0.0	0.0	5.38	8.01	0.00	8.01	0.00	2.81	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
436	8.900	31.77	0.0	0.0	0.0	5.41	7.99	0.00	7.99	0.00	2.81	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
437	8.800	31.83	0.0	0.0	0.0	5.44	7.98	0.00	7.98	0.00	2.81	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
438	8.700	31.90	0.0	0.0	0.0	5.47	7.96	0.00	7.96	0.00	2.81	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
439	8.600	31.97	0.0	0.0	0.0	5.50	7.95	0.00	7.95	0.00	2.81	0.10	0.00	2.91	0.00	38.0	0.0	0. 0.00
440	8.500	32.03	0.0	0.0	0.0	5.53	7.93	0.00	7.93	0.00	2.80	0.10	0.00	2.90	0.00	38.0	0.0	0. 0.00
441	8.400	32.10	0.0	0.0	0.0	5.56	7.92	0.00	7.92	0.00	2.80	0.10	0.00	2.90	0.00	38.0	0.0	0. 0.00
442	8.300	32.17	0.0	0.0	0.0	5.59	7.90	0.00	7.90	0.00	2.80	0.10	0.00	2.90	0.00	38.0	0.0	0. 0.00
443	8.200	32.23	0.0	0.0	0.0	5.62	7.89	0.00	7.89	0.00	2.80	0.10	0.00	2.90	0.00	38.0	0.0	0. 0.00
444	8.100	32.30	0.0	0.0	0.0	5.65	7.88	0.00	7.88	0.00	2.79	0.10	0.00	2.90	0.00	38.0	0.0	0. 0.00
445	8.000	32.30	0.0	0.0	0.0	5.67	7.86	0.00	7.86	0.00	2.79	0.11	0.00	2.90	0.00	37.9	0.0	0. 0.00
446	7.900	32.30	0.0	0.0	0.0	5.70	7.85	0.00	7.85	0.00	2.79	0.11	0.00	2.89	0.00	37.8	0.0	0. 0.00
447	7.800	32.30	0.0	0.0	0.0	5.72	7.84	0.00	7.84	0.00	2.79	0.11	0.00	2.89	0.00	37.7	0.0	0. 0.00
448	7.700	32.30	0.0	0.0	0.0	5.75	7.82	0.00	7.82	0.00	2.78	0.11	0.00	2.89	0.00	37.6	0.0	0. 0.00
449	7.600	32.30	0.0	0.0	0.0	5.77	7.81	0.00	7.81	0.00	2.78	0.11	0.00	2.89	0.00	37.5	0.0	0. 0.00
450	7.500	32.30	0.0	0.0	0.0	5.79	7.80	0.00	7.80	0.00	2.78	0.11	0.00	2.89	0.00	37.3	0.0	0. 0.00
451	7.400	32.30	0.0	0.0	0.0	5.82	7.78	0.00	7.78	0.00	2.78	0.11	0.00	2.88	0.00	37.2	0.0	0. 0.00
452	7.300	32.30	0.0	0.0	0.0	5.84	7.77	0.00	7.77	0.00	2.77	0.11	0.00	2.88	0.00	37.1	0.0	0. 0.00
453	7.200	32.30	0.0	0.0	0.0	5.86	7.76	0.00	7.76	0.00	2.77	0.11	0.00	2.88	0.00	37.0	0.0	0. 0.00
454	7.100	32.30	0.0	0.0	0.0	5.88	7.75	0.00	7.75	0.00	2.77	0.11	0.00	2.88	0.00	36.9	0.0	0. 0.00
455	7.000	32.30	0.0	0.0	0.0	5.90	7.73	0.00	7.73	0.00	2.77	0.11	0.00	2.88	0.00	36.8	0.0	0. 0.00
456	6.900	32.30	0.0	0.0	0.0	5.92	7.72	0.00	7.72	0.00	2.76	0.11	0.00	2.88	0.00	36.7	0.0	0. 0.00
457	6.800	32.30	0.0	0.0	0.0	5.94	7.71	0.00	7.71	0.00	2.76	0.11	0.00	2.87	0.00	36.6	0.0	0. 0.00
458	6.700	32.30	0.0	0.0	0.0	5.96	7.70	0.00	7.70	0.00	2.76	0.11	0.00	2.87	0.00	36.5	0.0	0. 0.00

459	6.600	32.30	0.0	0.0	0.0	5.98	7.68	0.00	7.68	0.00	2.76	0.11	0.00	2.87	0.00	36.4	0.0	0.	0.00
460	6.500	32.30	0.0	0.0	0.0	5.99	7.67	0.00	7.67	0.00	2.75	0.11	0.00	2.87	0.00	36.2	0.0	0.	0.00
461	6.400	32.30	0.0	0.0	0.0	6.01	7.66	0.00	7.66	0.00	2.75	0.11	0.00	2.87	0.00	36.1	0.0	0.	0.00
462	6.300	32.30	0.0	0.0	0.0	6.03	7.65	0.00	7.65	0.00	2.75	0.12	0.00	2.86	0.00	36.0	0.0	0.	0.00
463	6.200	32.30	0.0	0.0	0.0	6.05	7.63	0.00	7.63	0.00	2.75	0.12	0.00	2.86	0.00	35.9	0.0	0.	0.00
464	6.100	32.30	0.0	0.0	0.0	6.06	7.62	0.00	7.62	0.00	2.74	0.12	0.00	2.86	0.00	35.8	0.0	0.	0.00
465	6.000	32.30	0.0	0.0	0.0	6.08	7.61	0.00	7.61	0.00	2.74	0.12	0.00	2.86	0.00	35.7	0.0	0.	0.00
466	5.900	32.30	0.0	0.0	0.0	6.09	7.60	0.00	7.60	0.00	2.74	0.12	0.00	2.86	0.00	35.6	0.0	0.	0.00
467	5.800	32.30	0.0	0.0	0.0	6.11	7.58	0.00	7.58	0.00	2.74	0.12	0.00	2.85	0.00	35.5	0.0	0.	0.00
468	5.700	32.30	0.0	0.0	0.0	6.12	7.57	0.00	7.57	0.00	2.73	0.12	0.00	2.85	0.00	35.4	0.0	0.	0.00
469	5.600	32.30	0.0	0.0	0.0	6.14	7.56	0.00	7.56	0.00	2.73	0.12	0.00	2.85	0.00	35.3	0.0	0.	0.00
470	5.500	32.30	0.0	0.0	0.0	6.15	7.55	0.00	7.55	0.00	2.73	0.12	0.00	2.85	0.00	35.2	0.0	0.	0.00
471	5.400	32.30	0.0	0.0	0.0	6.16	7.54	0.00	7.54	0.00	2.73	0.12	0.00	2.85	0.00	35.0	0.0	0.	0.00
472	5.300	32.30	0.0	0.0	0.0	6.18	7.52	0.00	7.52	0.00	2.72	0.12	0.00	2.84	0.00	34.9	0.0	0.	0.00
473	5.200	32.30	0.0	0.0	0.0	6.19	7.51	0.00	7.51	0.00	2.72	0.12	0.00	2.84	0.00	34.8	0.0	0.	0.00
474	5.100	32.30	0.0	0.0	0.0	6.20	7.50	0.00	7.50	0.00	2.72	0.12	0.00	2.84	0.00	34.7	0.0	0.	0.00
475	5.000	32.30	0.0	0.0	0.0	6.21	7.49	0.00	7.49	0.00	2.72	0.12	0.00	2.84	0.00	34.6	0.0	0.	0.00
476	4.900	32.30	0.0	0.0	0.0	6.22	7.48	0.00	7.48	0.00	2.71	0.12	0.00	2.84	0.00	34.5	0.0	0.	0.00
477	4.800	32.30	0.0	0.0	0.0	6.23	7.46	0.00	7.46	0.00	2.71	0.12	0.00	2.83	0.00	34.4	0.0	0.	0.00
478	4.700	32.30	0.0	0.0	0.0	6.24	7.45	0.00	7.45	0.00	2.71	0.12	0.00	2.83	0.00	34.3	0.0	0.	0.00
479	4.600	32.30	0.0	0.0	0.0	6.26	7.44	0.00	7.44	0.00	2.71	0.12	0.00	2.83	0.00	34.2	0.0	0.	0.00
480	4.500	32.30	0.0	0.0	0.0	6.27	7.43	0.00	7.43	0.00	2.70	0.12	0.00	2.83	0.00	34.1	0.0	0.	0.00
481	4.400	32.30	0.0	0.0	0.0	6.27	7.42	0.00	7.42	0.00	2.70	0.12	0.00	2.83	0.00	33.9	0.0	0.	0.00
482	4.300	32.30	0.0	0.0	0.0	6.28	7.40	0.00	7.40	0.00	2.70	0.12	0.00	2.82	0.00	33.8	0.0	0.	0.00
483	4.200	32.30	0.0	0.0	0.0	6.29	7.39	0.00	7.39	0.00	2.70	0.12	0.00	2.82	0.00	33.7	0.0	0.	0.00
484	4.100	32.30	0.0	0.0	0.0	6.30	7.38	0.00	7.38	0.00	2.70	0.13	0.00	2.82	0.00	33.6	0.0	0.	0.00
485	4.000	32.30	0.0	0.0	0.0	6.31	7.37	0.00	7.37	0.00	2.69	0.13	0.00	2.82	0.00	33.5	0.0	0.	0.00
486	3.900	32.30	0.0	0.0	0.0	6.32	7.36	0.00	7.36	0.00	2.69	0.13	0.00	2.82	0.00	33.4	0.0	0.	0.00
487	3.800	32.30	0.0	0.0	0.0	6.33	7.35	0.00	7.35	0.00	2.69	0.13	0.00	2.81	0.00	33.3	0.0	0.	0.00
488	3.700	32.30	0.0	0.0	0.0	6.33	7.33	0.00	7.33	0.00	2.69	0.13	0.00	2.81	0.00	33.2	0.0	0.	0.00
489	3.600	32.30	0.0	0.0	0.0	6.34	7.32	0.00	7.32	0.00	2.68	0.13	0.00	2.81	0.00	33.1	0.0	0.	0.00
490	3.500	32.30	0.0	0.0	0.0	6.35	7.31	0.00	7.31	0.00	2.68	0.13	0.00	2.81	0.00	33.0	0.0	0.	0.00
491	3.400	32.30	0.0	0.0	0.0	6.35	7.30	0.00	7.30	0.00	2.68	0.13	0.00	2.81	0.00	32.8	0.0	0.	0.00
492	3.300	32.30	0.0	0.0	0.0	6.36	7.29	0.00	7.29	0.00	2.68	0.13	0.00	2.80	0.00	32.7	0.0	0.	0.00
493	3.200	32.30	0.0	0.0	0.0	6.37	7.28	0.00	7.28	0.00	2.67	0.13	0.00	2.80	0.00	32.6	0.0	0.	0.00
494	3.100	32.30	0.0	0.0	0.0	6.37	7.27	0.00	7.27	0.00	2.67	0.13	0.00	2.80	0.00	32.5	0.0	0.	0.00
495	3.000	32.30	0.0	0.0	0.0	6.38	7.25	0.00	7.25	0.00	2.67	0.13	0.00	2.80	0.00	32.4	0.0	0.	0.00
496	2.900	32.30	0.0	0.0	0.0	6.38	7.24	0.00	7.24	0.00	2.67	0.13	0.00	2.80	0.00	32.3	0.0	0.	0.00
497	2.800	32.30	0.0	0.0	0.0	6.39	7.23	0.00	7.23	0.00	2.66	0.13	0.00	2.80	0.00	32.2	0.0	0.	0.00
498	2.700	32.30	0.0	0.0	0.0	6.39	7.22	0.00	7.22	0.00	2.66	0.13	0.00	2.79	0.00	32.1	0.0	0.	0.00
499	2.600	32.30	0.0	0.0	0.0	6.40	7.21	0.00	7.21	0.00	2.66	0.13	0.00	2.79	0.00	32.0	0.0	0.	0.00
500	2.500	32.30	0.0	0.0	0.0	6.40	7.20	0.00	7.20	0.00	2.66	0.13	0.00	2.79	0.00	31.9	0.0	0.	0.00
501	2.400	32.30	0.0	0.0	0.0	6.41	7.19	0.00	7.19	0.00	2.66	0.13	0.00	2.79	0.00	31.8	0.0	0.	0.00
502	2.300	32.30	0.0	0.0	0.0	6.41	7.18	0.00	7.18	0.00	2.65	0.13	0.00	2.79	0.00	31.6	0.0	0.	0.00
503	2.200	32.30	0.0	0.0	0.0	6.41	7.17	0.00	7.17	0.00	2.65	0.13	0.00	2.78	0.00	31.5	0.0	0.	0.00
504	2.100	32.30	0.0	0.0	0.0	6.42	7.15	0.00	7.15	0.00	2.65	0.13	0.00	2.78	0.00	31.4	0.0	0.	0.00
505	2.000	32.30	0.0	0.0	0.0	6.42	7.14	0.00	7.14	0.00	2.65	0.13	0.00	2.78	0.00	31.3	0.0	0.	0.00
506	1.900	32.30	0.0	0.0	0.0	6.42	7.13	0.00	7.13	0.00	2.64	0.13	0.00	2.78	0.00	31.2	0.0	0.	0.00
507	1.800	32.30	0.0	0.0	0.0	6.42	7.12	0.00	7.12	0.00	2.64	0.13	0.00	2.78	0.00	31.1	0.0	0.	0.00
508	1.700	32.30	0.0	0.0	0.0	6.43	7.11	0.00	7.11	0.00	2.64	0.13	0.00	2.77	0.00	31.0	0.0	0.	0.00

509	1.600	32.30	0.0	0.0	0.0	6.43	7.10	0.00	7.10	0.00	2.64	0.13	0.00	2.77	0.00	30.9	0.0	0.	0.00
510	1.500	32.30	0.0	0.0	0.0	6.43	7.09	0.00	7.09	0.00	2.64	0.13	0.00	2.77	0.00	30.8	0.0	0.	0.00
511	1.400	32.30	0.0	0.0	0.0	6.43	7.08	0.00	7.08	0.00	2.63	0.13	0.00	2.77	0.00	30.7	0.0	0.	0.00
512	1.300	32.30	0.0	0.0	0.0	6.43	7.07	0.00	7.07	0.00	2.63	0.13	0.00	2.77	0.00	30.5	0.0	0.	0.00
513	1.200	32.30	0.0	0.0	0.0	6.44	7.06	0.00	7.06	0.00	2.63	0.14	0.00	2.76	0.00	30.4	0.0	0.	0.00
514	1.100	32.30	0.0	0.0	0.0	6.44	7.05	0.00	7.05	0.00	2.63	0.14	0.00	2.76	0.00	30.3	0.0	0.	0.00
515	1.000	32.30	0.0	0.0	0.0	6.44	7.03	0.00	7.03	0.00	2.62	0.14	0.00	2.76	0.00	30.2	0.0	0.	0.00
516	0.900	32.30	0.0	0.0	0.0	6.44	7.02	0.00	7.02	0.00	2.62	0.14	0.00	2.76	0.00	30.1	0.0	0.	0.00
517	0.800	32.30	0.0	0.0	0.0	6.44	7.01	0.00	7.01	0.00	2.62	0.14	0.00	2.76	0.00	30.0	0.0	0.	0.00
518	0.700	32.30	0.0	0.0	0.0	6.44	7.00	0.00	7.00	0.00	2.62	0.14	0.00	2.75	0.00	29.2	0.0	0.	0.00
519	0.600	32.30	0.0	0.0	0.0	6.44	6.99	0.00	6.99	0.00	2.61	0.14	0.00	2.75	0.00	28.5	0.0	0.	0.00
520	0.500	32.30	0.0	0.0	0.0	6.43	6.98	0.00	6.98	0.00	2.61	0.14	0.00	2.75	0.00	27.8	0.0	0.	0.00
521	0.400	32.30	0.0	0.0	0.0	6.43	6.97	0.00	6.97	0.00	2.61	0.14	0.00	2.75	0.00	27.0	0.0	0.	0.00
522	0.300	32.30	0.0	0.0	0.0	6.42	6.96	0.00	6.96	0.00	2.61	0.14	0.00	2.74	0.00	26.2	0.0	0.	0.00
523	0.200	32.30	0.0	0.0	0.0	6.42	6.95	0.00	6.95	0.00	2.61	0.14	0.00	2.74	0.00	25.5	0.0	0.	0.00
524	0.100	32.30	0.0	0.0	0.0	6.41	6.94	0.00	6.94	0.00	2.60	0.14	0.00	2.74	0.00	24.8	0.0	0.	0.00
525	0.000	32.30	0.0	0.0	0.0	6.39	6.98	0.00	6.98	0.00	2.59	0.14	0.00	2.73	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Chene

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
1	35.000	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00
2	34.900	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
3	34.800	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00
4	34.700	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
5	34.600	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00
6	34.500	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
7	34.400	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
8	34.300	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
9	34.200	7.38	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
10	34.100	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00
11	34.000	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.35	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
12	33.900	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00
13	33.800	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
14	33.700	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
15	33.600	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
16	33.500	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00
17	33.400	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00
18	33.300	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
19	33.200	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00
20	33.100	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00
21	33.000	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
22	32.900	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
23	32.800	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
24	32.700	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
25	32.600	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
26	32.500	7.35	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
27	32.400	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
28	32.300	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00

29	32.200	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00
30	32.100	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.36	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
31	32.000	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.36	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
32	31.900	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
33	31.800	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
34	31.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
35	31.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
36	31.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
37	31.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
38	31.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
39	31.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
40	31.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
41	31.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
42	30.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
43	30.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
44	30.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
45	30.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
46	30.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
47	30.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
48	30.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
49	30.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
50	30.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
51	30.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
52	29.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
53	29.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
54	29.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
55	29.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
56	29.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
57	29.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
58	29.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
59	29.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
60	29.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
61	29.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
62	28.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
63	28.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
64	28.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
65	28.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
66	28.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
77	27.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00

79	27.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
114	23.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
116	23.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
127	22.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00

129	22.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
161	19.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
162	18.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00
177	17.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00

179	17.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00
209	14.200	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
212	13.900	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
213	13.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
214	13.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
215	13.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
216	13.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
217	13.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
218	13.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
219	13.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
220	13.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00
221	13.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00
222	12.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
223	12.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
224	12.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00
225	12.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
226	12.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00
227	12.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00
228	12.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00

229	12.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00
230	12.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
231	12.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
232	11.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
233	11.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
234	11.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00
235	11.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00
236	11.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
237	11.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00
238	11.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
239	11.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00
240	11.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00
241	11.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00
242	10.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
243	10.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
244	10.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
245	10.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00

279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00

329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
526	0.500	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
527	0.400	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
528	0.300	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
529	0.200	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
530	0.100	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
531	0.000	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00

SPECIAL REPORT: Station 935

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	SRCE 1/da	DENIT PO4 PROD 1/da	ALG PROD *	MAC DECAY	COLI DECAY	NCM SETT	NCM
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

368	15.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
369	15.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
370	15.500	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
371	15.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
372	15.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
373	15.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
374	15.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
375	15.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
376	14.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
390	13.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
391	13.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00
392	13.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00
393	13.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
394	13.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
395	13.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
396	12.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
397	12.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
398	12.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
414	11.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
415	11.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
416	10.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
417	10.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00

418	10.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
419	10.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
420	10.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
421	10.400	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
422	10.300	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
423	10.200	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
424	10.100	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
425	10.000	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
426	9.900	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
427	9.800	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
428	9.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
429	9.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
430	9.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
431	9.400	7.37	0.76	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
432	9.300	7.37	0.76	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
433	9.200	7.36	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.03	0.00	0.35	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
434	9.100	7.35	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.03	0.00	0.35	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
435	9.000	7.34	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.03	0.00	0.35	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
436	8.900	7.33	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
437	8.800	7.33	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.36	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
438	8.700	7.32	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.36	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
439	8.600	7.31	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.36	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
440	8.500	7.30	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
441	8.400	7.29	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
442	8.300	7.28	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
443	8.200	7.28	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
444	8.100	7.27	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
445	8.000	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
446	7.900	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
447	7.800	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
448	7.700	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
449	7.600	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
450	7.500	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
451	7.400	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
452	7.300	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
453	7.200	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
454	7.100	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
455	7.000	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
456	6.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
457	6.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
458	6.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
459	6.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
460	6.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
461	6.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
462	6.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00
463	6.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00
464	6.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
465	6.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
466	5.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
467	5.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00

468	5.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
469	5.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
470	5.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
471	5.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
472	5.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
473	5.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
474	5.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
475	5.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
476	4.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
477	4.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
478	4.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00
516	0.900	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00

518	0.700	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
519	0.600	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
520	0.500	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
521	0.400	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
522	0.300	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
523	0.200	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
524	0.100	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
525	0.000	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Chene

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW VELO	ADVCTV	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	PRISM	X-SECT VELO	TIDAL	TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
1	35.10	35.00	17.3806	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
2	35.00	34.90	17.3745	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
3	34.90	34.80	17.3685	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
4	34.80	34.70	17.3624	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
5	34.70	34.60	17.3563	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
6	34.60	34.50	17.3503	0.129	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.129	
7	34.50	34.40	17.3442	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
8	34.40	34.30	17.3382	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
9	34.30	34.20	17.3321	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
10	34.20	34.10	17.3260	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
11	34.10	34.00	17.3200	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
12	34.00	33.90	17.3139	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
13	33.90	33.80	17.3079	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
14	33.80	33.70	17.3018	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
15	33.70	33.60	17.2957	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
16	33.60	33.50	17.2897	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
17	33.50	33.40	17.2836	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
18	33.40	33.30	17.2776	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
19	33.30	33.20	17.2715	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
20	33.20	33.10	17.2654	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
21	33.10	33.00	17.2594	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
22	33.00	32.90	17.2533	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
23	32.90	32.80	17.2473	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
24	32.80	32.70	17.2412	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
25	32.70	32.60	17.2351	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
26	32.60	32.50	17.2291	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
27	32.50	32.40	17.2230	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
28	32.40	32.30	17.2170	0.128	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.128	
29	32.30	32.20	17.2109	0.127	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.127	
30	32.20	32.10	17.2049	0.127	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.127	
31	32.10	32.00	17.1988	0.127	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.127	
32	32.00	31.90	17.1927	0.127	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.127	
33	31.90	31.80	17.1867	0.127	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.127	
34	31.80	31.70	17.1851	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156	
35	31.70	31.60	17.1835	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156	
36	31.60	31.50	17.1819	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156	
37	31.50	31.40	17.1804	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156	

38	31.40	31.30	17.1788	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
39	31.30	31.20	17.1772	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
40	31.20	31.10	17.1756	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
41	31.10	31.00	17.1741	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
42	31.00	30.90	17.1725	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
43	30.90	30.80	17.1709	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
44	30.80	30.70	17.1693	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
45	30.70	30.60	17.1678	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
46	30.60	30.50	17.1662	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
47	30.50	30.40	17.1646	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
48	30.40	30.30	17.1630	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
49	30.30	30.20	17.1615	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
50	30.20	30.10	17.1599	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
51	30.10	30.00	17.1583	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
52	30.00	29.90	17.1567	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
53	29.90	29.80	17.1552	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
54	29.80	29.70	17.1536	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
55	29.70	29.60	17.1520	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
56	29.60	29.50	17.1504	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
57	29.50	29.40	17.1489	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
58	29.40	29.30	17.1473	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
59	29.30	29.20	17.1457	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
60	29.20	29.10	17.1441	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
61	29.10	29.00	17.1426	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
62	29.00	28.90	17.1410	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
63	28.90	28.80	17.1394	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
64	28.80	28.70	17.1378	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
65	28.70	28.60	17.1363	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
66	28.60	28.50	17.1347	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
67	28.50	28.40	17.1331	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
68	28.40	28.30	17.1315	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
69	28.30	28.20	17.1300	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
70	28.20	28.10	17.1284	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
71	28.10	28.00	17.1268	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
72	28.00	27.90	17.1252	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
73	27.90	27.80	17.1237	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
74	27.80	27.70	17.1221	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
75	27.70	27.60	17.1205	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
76	27.60	27.50	17.1189	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
77	27.50	27.40	17.1174	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
78	27.40	27.30	17.1158	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
79	27.30	27.20	17.1142	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
80	27.20	27.10	17.1126	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
81	27.10	27.00	17.1110	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
82	27.00	26.90	17.1095	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
83	26.90	26.80	17.1079	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
84	26.80	26.70	17.1063	0.156	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.156
85	26.70	26.60	17.1047	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
86	26.60	26.50	17.1032	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
87	26.50	26.40	17.1016	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155

88	26.40	26.30	17.1000	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
89	26.30	26.20	17.0984	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
90	26.20	26.10	17.0969	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
91	26.10	26.00	17.0953	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
92	26.00	25.90	17.0937	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
93	25.90	25.80	17.0921	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
94	25.80	25.70	17.0906	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
95	25.70	25.60	17.0890	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
96	25.60	25.50	17.0874	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
97	25.50	25.40	17.0858	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
98	25.40	25.30	17.0843	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
99	25.30	25.20	17.0827	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
100	25.20	25.10	17.0811	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
101	25.10	25.00	17.0795	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
102	25.00	24.90	17.0780	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
103	24.90	24.80	17.0764	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
104	24.80	24.70	17.0748	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
105	24.70	24.60	17.0732	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
106	24.60	24.50	17.0717	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
107	24.50	24.40	17.0701	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
108	24.40	24.30	17.0685	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
109	24.30	24.20	17.0669	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
110	24.20	24.10	17.0654	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
111	24.10	24.00	17.0638	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
112	24.00	23.90	17.0622	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
113	23.90	23.80	17.0606	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
114	23.80	23.70	17.0591	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
115	23.70	23.60	17.0575	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
116	23.60	23.50	17.0559	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
117	23.50	23.40	17.0543	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
118	23.40	23.30	17.0528	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
119	23.30	23.20	17.0512	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
120	23.20	23.10	17.0496	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
121	23.10	23.00	17.0480	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
122	23.00	22.90	17.0465	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
123	22.90	22.80	17.0449	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
124	22.80	22.70	17.0433	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
125	22.70	22.60	17.0417	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
126	22.60	22.50	17.0402	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
127	22.50	22.40	17.0386	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
128	22.40	22.30	17.0370	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
129	22.30	22.20	17.0354	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
130	22.20	22.10	17.0339	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
131	22.10	22.00	17.0323	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
132	22.00	21.90	17.0307	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
133	21.90	21.80	17.0291	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
134	21.80	21.70	17.0275	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
135	21.70	21.60	17.0260	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
136	21.60	21.50	17.0244	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
137	21.50	21.40	17.0228	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155

138	21.40	21.30	17.0212	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
139	21.30	21.20	17.0197	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
140	21.20	21.10	17.0181	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
141	21.10	21.00	17.0165	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
142	21.00	20.90	17.0149	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
143	20.90	20.80	17.0134	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
144	20.80	20.70	17.0118	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
145	20.70	20.60	17.0102	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
146	20.60	20.50	17.0086	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
147	20.50	20.40	17.0071	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
148	20.40	20.30	17.0055	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
149	20.30	20.20	17.0039	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
150	20.20	20.10	17.0023	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
151	20.10	20.00	17.0008	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
152	20.00	19.90	16.9992	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
153	19.90	19.80	16.9976	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
154	19.80	19.70	16.9960	0.155	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.155
155	19.70	19.60	16.9945	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
156	19.60	19.50	16.9929	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
157	19.50	19.40	16.9913	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
158	19.40	19.30	16.9897	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
159	19.30	19.20	16.9882	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
160	19.20	19.10	16.9866	0.154	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.154
161	19.10	19.00	13.2259	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
162	19.00	18.90	13.2221	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
163	18.90	18.80	13.2182	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
164	18.80	18.70	13.2144	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
165	18.70	18.60	13.2106	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
166	18.60	18.50	13.2067	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
167	18.50	18.40	13.2029	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
168	18.40	18.30	13.1990	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
169	18.30	18.20	13.1952	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
170	18.20	18.10	13.1913	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
171	18.10	18.00	13.1875	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
172	18.00	17.90	13.1836	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
173	17.90	17.80	13.1798	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
174	17.80	17.70	13.1759	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
175	17.70	17.60	13.1721	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
176	17.60	17.50	13.1682	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
177	17.50	17.40	13.1644	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
178	17.40	17.30	13.1606	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
179	17.30	17.20	13.1567	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
180	17.20	17.10	13.1529	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
181	17.10	17.00	13.1490	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
182	17.00	16.90	13.1452	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
183	16.90	16.80	13.1413	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
184	16.80	16.70	13.1375	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
185	16.70	16.60	13.1336	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
186	16.60	16.50	13.1298	0.083	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.083
187	16.50	16.40	13.1259	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082

188	16.40	16.30	13.1221	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
189	16.30	16.20	13.1182	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
190	16.20	16.10	13.1144	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
191	16.10	16.00	13.1106	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
192	16.00	15.90	13.1067	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
193	15.90	15.80	13.1029	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
194	15.80	15.70	13.0990	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
195	15.70	15.60	13.0952	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
196	15.60	15.50	13.0913	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
197	15.50	15.40	13.0875	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
198	15.40	15.30	13.0836	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
199	15.30	15.20	13.0798	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
200	15.20	15.10	13.0759	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
201	15.10	15.00	13.0721	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
202	15.00	14.90	13.0682	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
203	14.90	14.80	13.0644	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
204	14.80	14.70	13.0606	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
205	14.70	14.60	13.0567	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
206	14.60	14.50	13.0529	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
207	14.50	14.40	13.0490	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
208	14.40	14.30	13.0452	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
209	14.30	14.20	13.0413	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
210	14.20	14.10	13.0375	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
211	14.10	14.00	13.0336	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
212	14.00	13.90	13.0298	0.082	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.082
213	13.90	13.80	14.7238	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
214	13.80	13.70	14.7188	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
215	13.70	13.60	14.7138	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
216	13.60	13.50	14.7088	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
217	13.50	13.40	14.7038	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
218	13.40	13.30	14.6988	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
219	13.30	13.20	14.6938	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
220	13.20	13.10	14.6888	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
221	13.10	13.00	14.6838	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
222	13.00	12.90	14.6788	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
223	12.90	12.80	14.6738	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
224	12.80	12.70	14.6688	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
225	12.70	12.60	14.6638	0.054	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.054
226	12.60	12.50	14.6588	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
227	12.50	12.40	14.6538	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
228	12.40	12.30	14.6488	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
229	12.30	12.20	14.6438	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
230	12.20	12.10	14.6388	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
231	12.10	12.00	14.6338	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
232	12.00	11.90	14.6288	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
233	11.90	11.80	14.6238	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
234	11.80	11.70	14.6188	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
235	11.70	11.60	14.6138	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
236	11.60	11.50	14.6088	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
237	11.50	11.40	14.6038	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053

238	11.40	11.30	14.5988	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
239	11.30	11.20	14.5938	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
240	11.20	11.10	14.5888	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
241	11.10	11.00	14.5838	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
242	11.00	10.90	14.5788	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
243	10.90	10.80	14.5738	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
244	10.80	10.70	14.5688	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
245	10.70	10.60	14.5638	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
246	10.60	10.50	14.5588	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
247	10.50	10.40	14.5538	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
248	10.40	10.30	14.5488	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
249	10.30	10.20	14.5438	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
250	10.20	10.10	14.5388	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
251	10.10	10.00	14.5338	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
252	10.00	9.90	14.5288	0.053	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.053
253	9.90	9.80	5.3141	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
254	9.80	9.70	5.3110	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
255	9.70	9.60	5.3078	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
256	9.60	9.50	5.3046	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
257	9.50	9.40	5.3014	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
258	9.40	9.30	5.2983	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
259	9.30	9.20	5.2951	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
260	9.20	9.10	5.2919	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
261	9.10	9.00	5.2887	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
262	9.00	8.90	5.2856	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
263	8.90	8.80	5.2824	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
264	8.80	8.70	5.2792	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
265	8.70	8.60	5.2760	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
266	8.60	8.50	5.2729	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
267	8.50	8.40	5.2697	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
268	8.40	8.30	5.2665	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
269	8.30	8.20	5.2633	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
270	8.20	8.10	5.2602	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
271	8.10	8.00	5.2570	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
272	8.00	7.90	5.2538	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
273	7.90	7.80	5.2506	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
274	7.80	7.70	5.2475	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
275	7.70	7.60	5.2443	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
276	7.60	7.50	5.2411	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
277	7.50	7.40	5.2379	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
278	7.40	7.30	5.2348	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
279	7.30	7.20	5.2316	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
280	7.20	7.10	5.2284	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
281	7.10	7.00	5.2252	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
282	7.00	6.90	5.2221	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
283	6.90	6.80	5.2189	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
284	6.80	6.70	5.2157	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
285	6.70	6.60	5.2125	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
286	6.60	6.50	5.2094	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
287	6.50	6.40	5.2062	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033

288	6.40	6.30	5.2030	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
289	6.30	6.20	5.1998	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
290	6.20	6.10	5.1967	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
291	6.10	6.00	5.1935	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
292	6.00	5.90	5.1903	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
293	5.90	5.80	5.1871	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
294	5.80	5.70	5.1840	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
295	5.70	5.60	5.1808	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
296	5.60	5.50	5.1776	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
297	5.50	5.40	5.1744	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
298	5.40	5.30	5.1713	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
299	5.30	5.20	5.1681	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
300	5.20	5.10	5.1649	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
301	5.10	5.00	5.1617	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
302	5.00	4.90	5.1586	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
303	4.90	4.80	5.1554	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
304	4.80	4.70	5.1522	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
305	4.70	4.60	5.1490	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
306	4.60	4.50	5.1459	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
307	4.50	4.40	5.1427	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
308	4.40	4.30	5.1395	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
309	4.30	4.20	5.1363	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
310	4.20	4.10	5.1332	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
311	4.10	4.00	5.1300	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
312	4.00	3.90	5.1268	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
313	3.90	3.80	5.1236	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
314	3.80	3.70	5.1205	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
315	3.70	3.60	5.1173	0.032	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.032
316	3.60	3.50	5.1106	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
317	3.50	3.40	5.1040	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
318	3.40	3.30	5.0973	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
319	3.30	3.20	5.0906	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
320	3.20	3.10	5.0840	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
321	3.10	3.00	5.0773	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
322	3.00	2.90	5.0706	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
323	2.90	2.80	5.0640	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
324	2.80	2.70	5.0573	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
325	2.70	2.60	5.0506	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
326	2.60	2.50	5.0440	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
327	2.50	2.40	5.0373	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
328	2.40	2.30	5.0306	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
329	2.30	2.20	5.0240	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
330	2.20	2.10	5.0173	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
331	2.10	2.00	5.0106	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
332	2.00	1.90	5.0040	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
333	1.90	1.80	4.9973	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
334	1.80	1.70	4.9906	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
335	1.70	1.60	4.9840	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
336	1.60	1.50	4.9773	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
337	1.50	1.40	4.9706	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026

338	1.40	1.30	4.9640	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
339	1.30	1.20	4.9573	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
340	1.20	1.10	4.9506	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
341	1.10	1.00	4.9440	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
342	1.00	0.90	4.9373	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
343	0.90	0.80	4.9306	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
344	0.80	0.70	4.9240	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
345	0.70	0.60	4.9173	0.025	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.025
526	0.60	0.50	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083
527	0.50	0.40	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083
528	0.40	0.30	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083
529	0.30	0.20	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083
530	0.20	0.10	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083
531	0.10	0.00	10.2738	0.083	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.083

SPECIAL REPORT: Station 935

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	PRISM	TIDAL VELO	TIDAL	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
346	18.00	17.90	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
347	17.90	17.80	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
348	17.80	17.70	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
349	17.70	17.60	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
350	17.60	17.50	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
351	17.50	17.40	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
352	17.40	17.30	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
353	17.30	17.20	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
354	17.20	17.10	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
355	17.10	17.00	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
356	17.00	16.90	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
357	16.90	16.80	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
358	16.80	16.70	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
359	16.70	16.60	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
360	16.60	16.50	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
361	16.50	16.40	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
362	16.40	16.30	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
363	16.30	16.20	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
364	16.20	16.10	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
365	16.10	16.00	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
366	16.00	15.90	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
367	15.90	15.80	0.0378	0.001	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.001	
368	15.80	15.70	0.2086	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
369	15.70	15.60	0.3794	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
370	15.60	15.50	0.5503	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
371	15.50	15.40	0.7211	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
372	15.40	15.30	0.8920	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
373	15.30	15.20	1.0628	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
374	15.20	15.10	1.2337	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
375	15.10	15.00	1.4045	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	
376	15.00	14.90	1.5754	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000	

377	14.90	14.80	1.7283	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
378	14.80	14.70	1.8812	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
379	14.70	14.60	2.0341	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
380	14.60	14.50	2.1870	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
381	14.50	14.40	2.3399	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
382	14.40	14.30	2.4928	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
383	14.30	14.20	2.6457	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
384	14.20	14.10	2.7986	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
385	14.10	14.00	2.9515	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
386	14.00	13.90	3.1044	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
387	13.90	13.80	3.2573	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
388	13.80	13.70	3.4103	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
389	13.70	13.60	3.5632	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
390	13.60	13.50	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
391	13.50	13.40	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
392	13.40	13.30	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
393	13.30	13.20	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
394	13.20	13.10	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
395	13.10	13.00	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
396	13.00	12.90	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
397	12.90	12.80	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
398	12.80	12.70	3.5632	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
399	12.70	12.60	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
400	12.60	12.50	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
401	12.50	12.40	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
402	12.40	12.30	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
403	12.30	12.20	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
404	12.20	12.10	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
405	12.10	12.00	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
406	12.00	11.90	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
407	11.90	11.80	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
408	11.80	11.70	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
409	11.70	11.60	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
410	11.60	11.50	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
411	11.50	11.40	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
412	11.40	11.30	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
413	11.30	11.20	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
414	11.20	11.10	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
415	11.10	11.00	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
416	11.00	10.90	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
417	10.90	10.80	3.5632	0.033	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.033
418	10.80	10.70	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
419	10.70	10.60	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
420	10.60	10.50	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
421	10.50	10.40	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
422	10.40	10.30	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
423	10.30	10.20	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
424	10.20	10.10	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
425	10.10	10.00	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
426	10.00	9.90	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035

427	9.90	9.80	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
428	9.80	9.70	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
429	9.70	9.60	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
430	9.60	9.50	3.5632	0.035	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.035
431	9.50	9.40	6.8479	0.068	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.068
432	9.40	9.30	6.8479	0.068	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.068
433	9.30	9.20	5.1038	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
434	9.20	9.10	5.1059	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
435	9.10	9.00	5.1080	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
436	9.00	8.90	5.1101	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
437	8.90	8.80	5.1123	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
438	8.80	8.70	5.1144	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
439	8.70	8.60	5.1165	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
440	8.60	8.50	5.1186	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
441	8.50	8.40	5.1208	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
442	8.40	8.30	5.1229	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
443	8.30	8.20	5.1250	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
444	8.20	8.10	5.1271	0.052	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.052
445	8.10	8.00	5.1299	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
446	8.00	7.90	5.1327	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
447	7.90	7.80	5.1355	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
448	7.80	7.70	5.1383	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
449	7.70	7.60	5.1411	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
450	7.60	7.50	5.1439	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
451	7.50	7.40	5.1467	0.056	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.056
452	7.40	7.30	5.1495	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
453	7.30	7.20	5.1523	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
454	7.20	7.10	5.1551	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
455	7.10	7.00	5.1579	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
456	7.00	6.90	5.1606	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
457	6.90	6.80	5.1634	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
458	6.80	6.70	5.1662	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
459	6.70	6.60	5.1690	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
460	6.60	6.50	5.1718	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
461	6.50	6.40	5.1746	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
462	6.40	6.30	5.1774	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
463	6.30	6.20	5.1802	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
464	6.20	6.10	5.1830	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
465	6.10	6.00	5.1858	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
466	6.00	5.90	5.1886	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
467	5.90	5.80	5.1914	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
468	5.80	5.70	5.1942	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
469	5.70	5.60	5.1970	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
470	5.60	5.50	5.1998	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
471	5.50	5.40	5.2025	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
472	5.40	5.30	5.2053	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
473	5.30	5.20	5.2081	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
474	5.20	5.10	5.2109	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
475	5.10	5.00	5.2137	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
476	5.00	4.90	5.2165	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057

477	4.90	4.80	5.2193	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
478	4.80	4.70	5.2221	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
479	4.70	4.60	5.2249	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
480	4.60	4.50	5.2277	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
481	4.50	4.40	5.2305	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
482	4.40	4.30	5.2333	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
483	4.30	4.20	5.2361	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
484	4.20	4.10	5.2389	0.057	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.057
485	4.10	4.00	5.2417	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
486	4.00	3.90	5.2444	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
487	3.90	3.80	5.2472	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
488	3.80	3.70	5.2500	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
489	3.70	3.60	5.2528	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
490	3.60	3.50	5.2556	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
491	3.50	3.40	5.2584	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
492	3.40	3.30	5.2612	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
493	3.30	3.20	5.2640	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
494	3.20	3.10	5.2668	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
495	3.10	3.00	5.2696	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
496	3.00	2.90	5.2724	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
497	2.90	2.80	5.2752	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
498	2.80	2.70	5.2780	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
499	2.70	2.60	5.2808	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
500	2.60	2.50	5.2836	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
501	2.50	2.40	5.2863	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
502	2.40	2.30	5.2891	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
503	2.30	2.20	5.2919	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
504	2.20	2.10	5.2947	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
505	2.10	2.00	5.2975	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
506	2.00	1.90	5.3003	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
507	1.90	1.80	5.3031	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
508	1.80	1.70	5.3059	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
509	1.70	1.60	5.3087	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
510	1.60	1.50	5.3115	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
511	1.50	1.40	5.3143	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
512	1.40	1.30	5.3171	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
513	1.30	1.20	5.3199	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
514	1.20	1.10	5.3227	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
515	1.10	1.00	5.3255	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
516	1.00	0.90	5.3282	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
517	0.90	0.80	5.3310	0.058	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.058
518	0.80	0.70	5.3342	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
519	0.70	0.60	5.3374	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
520	0.60	0.50	5.3406	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
521	0.50	0.40	5.3438	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
522	0.40	0.30	5.3470	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
523	0.30	0.20	5.3502	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
524	0.20	0.10	5.3534	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059
525	0.10	0.00	5.3565	0.059	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.059

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 1 Bayou Chene to Blackbird Bayou Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A #/100mL	COLI	NCM
1	HDWTR	17.38664	30.00	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	0.00	70.00	0.00	0.00
EACH	INCR	0.01515	30.00	0.00	0.00	0.00	5.00	50.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.02121																

********** 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	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO m/s
1	35.10	35.00	17.38058	0.0	0.12875	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
2	35.00	34.90	17.37452	0.0	0.12870	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
3	34.90	34.80	17.36846	0.0	0.12866	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
4	34.80	34.70	17.36240	0.0	0.12861	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
5	34.70	34.60	17.35634	0.0	0.12857	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
6	34.60	34.50	17.35028	0.0	0.12852	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.129	
7	34.50	34.40	17.34422	0.0	0.12848	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
8	34.40	34.30	17.33816	0.0	0.12843	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
9	34.30	34.20	17.33210	0.0	0.12839	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
10	34.20	34.10	17.32604	0.0	0.12834	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
11	34.10	34.00	17.31998	0.0	0.12830	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
12	34.00	33.90	17.31392	0.0	0.12825	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
13	33.90	33.80	17.30787	0.0	0.12821	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
14	33.80	33.70	17.30181	0.0	0.12816	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
15	33.70	33.60	17.29575	0.0	0.12812	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
16	33.60	33.50	17.28969	0.0	0.12807	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
17	33.50	33.40	17.28363	0.0	0.12803	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
18	33.40	33.30	17.27757	0.0	0.12798	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
19	33.30	33.20	17.27151	0.0	0.12794	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
20	33.20	33.10	17.26545	0.0	0.12789	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
21	33.10	33.00	17.25939	0.0	0.12785	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
22	33.00	32.90	17.25333	0.0	0.12780	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
23	32.90	32.80	17.24727	0.0	0.12776	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
24	32.80	32.70	17.24121	0.0	0.12771	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
25	32.70	32.60	17.23515	0.0	0.12767	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
26	32.60	32.50	17.22909	0.0	0.12762	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
27	32.50	32.40	17.22303	0.0	0.12758	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
28	32.40	32.30	17.21697	0.0	0.12753	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.128	
29	32.30	32.20	17.21091	0.0	0.12749	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.127	
30	32.20	32.10	17.20485	0.0	0.12744	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.127	
31	32.10	32.00	17.19879	0.0	0.12740	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.127	
32	32.00	31.90	17.19273	0.0	0.12735	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.127	
33	31.90	31.80	17.18667	0.0	0.12731	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.127	
TOT					0.30				445500.00	445500.00						
AVG				0.1280			1.00	135.00			135.00					
CUM					0.30											

********** 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	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	35.000	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00			
2	34.900	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00			
3	34.800	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00			
4	34.700	7.40	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00			
5	34.600	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00			
6	34.500	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00			
7	34.400	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00			
8	34.300	7.39	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00			
9	34.200	7.38	1.73	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00			
10	34.100	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00			
11	34.000	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.35	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00			
12	33.900	7.38	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00			
13	33.800	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00			
14	33.700	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00			
15	33.600	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00			
16	33.500	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00			
17	33.400	7.37	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00			
18	33.300	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00			
19	33.200	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00			
20	33.100	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00			
21	33.000	7.36	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00			
22	32.900	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00			
23	32.800	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00			
24	32.700	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00			
25	32.600	7.35	1.74	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00			
26	32.500	7.35	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00			
27	32.400	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00			
28	32.300	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00			
29	32.200	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00			
30	32.100	7.34	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.36	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00			
31	32.000	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.36	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00			
32	31.900	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00			
33	31.800	7.33	1.74	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00			
AVG 20 DEG C RATE			1.41	0.12	0.00	0.00	0.00	0.00	0.00	2.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	35.000	31.22	0.00	0.00	0.00	6.19	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.15	0.00	0.	0.00
2	34.900	31.24	0.00	0.00	0.00	6.19	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.30	0.00	0.	0.00
3	34.800	31.25	0.00	0.00	0.00	6.18	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.45	0.00	0.	0.00
4	34.700	31.27	0.00	0.00	0.00	6.18	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.61	0.00	0.	0.00
5	34.600	31.29	0.00	0.00	0.00	6.17	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	70.76	0.00	0.	0.00
6	34.500	31.31	0.00	0.00	0.00	6.17	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	70.91	0.00	0.	0.00
7	34.400	31.33	0.00	0.00	0.00	6.16	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.06	0.00	0.	0.00
8	34.300	31.35	0.00	0.00	0.00	6.16	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	71.21	0.00	0.	0.00
9	34.200	31.36	0.00	0.00	0.00	6.16	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	71.36	0.00	0.	0.00
10	34.100	31.38	0.00	0.00	0.00	6.15	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	71.52	0.00	0.	0.00
11	34.000	31.40	0.00	0.00	0.00	6.15	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	71.67	0.00	0.	0.00

12	33.900	31.42	0.00	0.00	0.00	6.14	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	71.82	0.00	0.	0.00
13	33.800	31.44	0.00	0.00	0.00	6.14	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	71.97	0.00	0.	0.00
14	33.700	31.45	0.00	0.00	0.00	6.14	16.09	0.00	16.09	0.00	1.59	0.10	0.52	2.21	0.00	72.12	0.00	0.	0.00
15	33.600	31.47	0.00	0.00	0.00	6.13	16.09	0.00	16.09	0.00	1.59	0.10	0.52	2.21	0.00	72.27	0.00	0.	0.00
16	33.500	31.49	0.00	0.00	0.00	6.13	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.21	0.00	72.42	0.00	0.	0.00
17	33.400	31.51	0.00	0.00	0.00	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.58	0.00	0.	0.00
18	33.300	31.53	0.00	0.00	0.00	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.73	0.00	0.	0.00
19	33.200	31.55	0.00	0.00	0.00	6.12	16.09	0.00	16.09	0.00	1.59	0.10	0.51	2.20	0.00	72.88	0.00	0.	0.00
20	33.100	31.56	0.00	0.00	0.00	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.19	0.00	73.03	0.00	0.	0.00
21	33.000	31.58	0.00	0.00	0.00	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.19	0.00	73.18	0.00	0.	0.00
22	32.900	31.60	0.00	0.00	0.00	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.50	2.18	0.00	73.33	0.00	0.	0.00
23	32.800	31.62	0.00	0.00	0.00	6.11	16.09	0.00	16.09	0.00	1.59	0.10	0.49	2.18	0.00	73.48	0.00	0.	0.00
24	32.700	31.64	0.00	0.00	0.00	6.10	16.09	0.00	16.09	0.00	1.59	0.10	0.49	2.18	0.00	73.64	0.00	0.	0.00
25	32.600	31.65	0.00	0.00	0.00	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.49	2.17	0.00	73.79	0.00	0.	0.00
26	32.500	31.67	0.00	0.00	0.00	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.49	2.17	0.00	73.94	0.00	0.	0.00
27	32.400	31.69	0.00	0.00	0.00	6.10	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.17	0.00	74.09	0.00	0.	0.00
28	32.300	31.71	0.00	0.00	0.00	6.09	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.16	0.00	74.24	0.00	0.	0.00
29	32.200	31.73	0.00	0.00	0.00	6.09	16.09	0.00	16.09	0.00	1.58	0.10	0.48	2.16	0.00	74.39	0.00	0.	0.00
30	32.100	31.75	0.00	0.00	0.00	6.09	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.16	0.00	74.55	0.00	0.	0.00
31	32.000	31.76	0.00	0.00	0.00	6.09	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.15	0.00	74.70	0.00	0.	0.00
32	31.900	31.78	0.00	0.00	0.00	6.08	16.08	0.00	16.08	0.00	1.58	0.10	0.47	2.15	0.00	74.85	0.00	0.	0.00
33	31.800	31.80	0.00	0.00	0.00	6.08	16.09	0.00	16.09	0.00	1.58	0.10	0.47	2.15	0.00	75.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 2 Blackbird Bayou to 120401-G Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
34	UPR RCH	17.18667	31.80	0.00	0.00	0.00	6.08	16.09	0.00	16.09	0.00	1.58	0.10	0.47	0.00	75.00	0.00	0.00
EACH	INCR	0.03937	30.00	0.00	0.00	0.00	5.00	50.00	0.00		3.10	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.04094																

********** 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	PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
34	31.80	31.70	17.18510	0.0	0.15623	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
35	31.70	31.60	17.18352	0.0	0.15621	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
36	31.60	31.50	17.18195	0.0	0.15620	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
37	31.50	31.40	17.18037	0.0	0.15619	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
38	31.40	31.30	17.17879	0.0	0.15617	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
39	31.30	31.20	17.17722	0.0	0.15616	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
40	31.20	31.10	17.17564	0.0	0.15614	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
41	31.10	31.00	17.17407	0.0	0.15613	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
42	31.00	30.90	17.17249	0.0	0.15611	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
43	30.90	30.80	17.17092	0.0	0.15610	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
44	30.80	30.70	17.16934	0.0	0.15608	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
45	30.70	30.60	17.16777	0.0	0.15607	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
46	30.60	30.50	17.16619	0.0	0.15606	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
47	30.50	30.40	17.16462	0.0	0.15604	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
48	30.40	30.30	17.16304	0.0	0.15603	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	
49	30.30	30.20	17.16146	0.0	0.15601	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156	

50	30.20	30.10	17.15989	0.0	0.15600	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
51	30.10	30.00	17.15831	0.0	0.15598	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
52	30.00	29.90	17.15674	0.0	0.15597	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
53	29.90	29.80	17.15516	0.0	0.15596	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
54	29.80	29.70	17.15359	0.0	0.15594	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
55	29.70	29.60	17.15201	0.0	0.15593	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
56	29.60	29.50	17.15044	0.0	0.15591	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
57	29.50	29.40	17.14886	0.0	0.15590	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
58	29.40	29.30	17.14729	0.0	0.15588	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
59	29.30	29.20	17.14571	0.0	0.15587	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
60	29.20	29.10	17.14413	0.0	0.15586	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
61	29.10	29.00	17.14256	0.0	0.15584	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
62	29.00	28.90	17.14098	0.0	0.15583	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
63	28.90	28.80	17.13941	0.0	0.15581	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
64	28.80	28.70	17.13783	0.0	0.15580	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
65	28.70	28.60	17.13626	0.0	0.15578	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
66	28.60	28.50	17.13468	0.0	0.15577	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
67	28.50	28.40	17.13311	0.0	0.15576	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
68	28.40	28.30	17.13153	0.0	0.15574	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
69	28.30	28.20	17.12996	0.0	0.15573	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
70	28.20	28.10	17.12838	0.0	0.15571	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
71	28.10	28.00	17.12680	0.0	0.15570	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
72	28.00	27.90	17.12523	0.0	0.15568	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
73	27.90	27.80	17.12365	0.0	0.15567	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
74	27.80	27.70	17.12208	0.0	0.15566	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
75	27.70	27.60	17.12050	0.0	0.15564	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
76	27.60	27.50	17.11893	0.0	0.15563	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
77	27.50	27.40	17.11735	0.0	0.15561	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
78	27.40	27.30	17.11578	0.0	0.15560	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
79	27.30	27.20	17.11420	0.0	0.15558	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
80	27.20	27.10	17.11263	0.0	0.15557	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
81	27.10	27.00	17.11105	0.0	0.15555	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
82	27.00	26.90	17.10947	0.0	0.15554	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
83	26.90	26.80	17.10790	0.0	0.15553	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
84	26.80	26.70	17.10632	0.0	0.15551	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.156
85	26.70	26.60	17.10475	0.0	0.15550	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
86	26.60	26.50	17.10317	0.0	0.15548	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
87	26.50	26.40	17.10160	0.0	0.15547	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
88	26.40	26.30	17.10002	0.0	0.15545	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
89	26.30	26.20	17.09845	0.0	0.15544	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
90	26.20	26.10	17.09687	0.0	0.15543	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
91	26.10	26.00	17.09529	0.0	0.15541	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
92	26.00	25.90	17.09372	0.0	0.15540	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
93	25.90	25.80	17.09214	0.0	0.15538	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
94	25.80	25.70	17.09057	0.0	0.15537	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
95	25.70	25.60	17.08899	0.0	0.15535	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
96	25.60	25.50	17.08742	0.0	0.15534	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
97	25.50	25.40	17.08584	0.0	0.15533	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
98	25.40	25.30	17.08427	0.0	0.15531	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
99	25.30	25.20	17.08269	0.0	0.15530	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155

100	25.20	25.10	17.08112	0.0	0.15528	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
101	25.10	25.00	17.07954	0.0	0.15527	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
102	25.00	24.90	17.07796	0.0	0.15525	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
103	24.90	24.80	17.07639	0.0	0.15524	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
104	24.80	24.70	17.07481	0.0	0.15523	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
105	24.70	24.60	17.07324	0.0	0.15521	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
106	24.60	24.50	17.07166	0.0	0.15520	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
107	24.50	24.40	17.07009	0.0	0.15518	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
108	24.40	24.30	17.06851	0.0	0.15517	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
109	24.30	24.20	17.06694	0.0	0.15515	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
110	24.20	24.10	17.06536	0.0	0.15514	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
111	24.10	24.00	17.06379	0.0	0.15513	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
112	24.00	23.90	17.06221	0.0	0.15511	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
113	23.90	23.80	17.06063	0.0	0.15510	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
114	23.80	23.70	17.05906	0.0	0.15508	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
115	23.70	23.60	17.05748	0.0	0.15507	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
116	23.60	23.50	17.05591	0.0	0.15505	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
117	23.50	23.40	17.05433	0.0	0.15504	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
118	23.40	23.30	17.05276	0.0	0.15503	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
119	23.30	23.20	17.05118	0.0	0.15501	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
120	23.20	23.10	17.04961	0.0	0.15500	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
121	23.10	23.00	17.04803	0.0	0.15498	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
122	23.00	22.90	17.04646	0.0	0.15497	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
123	22.90	22.80	17.04488	0.0	0.15495	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
124	22.80	22.70	17.04330	0.0	0.15494	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
125	22.70	22.60	17.04173	0.0	0.15492	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
126	22.60	22.50	17.04015	0.0	0.15491	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
127	22.50	22.40	17.03858	0.0	0.15490	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
128	22.40	22.30	17.03700	0.0	0.15488	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
129	22.30	22.20	17.03543	0.0	0.15487	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
130	22.20	22.10	17.03385	0.0	0.15485	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
131	22.10	22.00	17.03228	0.0	0.15484	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
132	22.00	21.90	17.03070	0.0	0.15482	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
133	21.90	21.80	17.02913	0.0	0.15481	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
134	21.80	21.70	17.02755	0.0	0.15480	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
135	21.70	21.60	17.02597	0.0	0.15478	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
136	21.60	21.50	17.02440	0.0	0.15477	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
137	21.50	21.40	17.02282	0.0	0.15475	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
138	21.40	21.30	17.02125	0.0	0.15474	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
139	21.30	21.20	17.01967	0.0	0.15472	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
140	21.20	21.10	17.01810	0.0	0.15471	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
141	21.10	21.00	17.01652	0.0	0.15470	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
142	21.00	20.90	17.01495	0.0	0.15468	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
143	20.90	20.80	17.01337	0.0	0.15467	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
144	20.80	20.70	17.01180	0.0	0.15465	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
145	20.70	20.60	17.01022	0.0	0.15464	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
146	20.60	20.50	17.00864	0.0	0.15462	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
147	20.50	20.40	17.00707	0.0	0.15461	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
148	20.40	20.30	17.00549	0.0	0.15460	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
149	20.30	20.20	17.00392	0.0	0.15458	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155

150	20.20	20.10	17.00234	0.0	0.15457	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
151	20.10	20.00	17.00077	0.0	0.15455	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
152	20.00	19.90	16.99919	0.0	0.15454	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
153	19.90	19.80	16.99762	0.0	0.15452	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
154	19.80	19.70	16.99604	0.0	0.15451	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.155
155	19.70	19.60	16.99446	0.0	0.15450	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
156	19.60	19.50	16.99289	0.0	0.15448	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
157	19.50	19.40	16.99131	0.0	0.15447	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
158	19.40	19.30	16.98974	0.0	0.15445	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
159	19.30	19.20	16.98816	0.0	0.15444	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
160	19.20	19.10	16.98659	0.0	0.15442	0.01	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.154
TOT					0.95			1397000.00	1397000.00						
AVG				0.1553			1.00	110.00		110.00					
CUM					1.24										

********** 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			
34	31.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
35	31.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
36	31.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
37	31.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
38	31.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
39	31.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
40	31.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
41	31.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
42	30.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
43	30.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
44	30.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
45	30.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
46	30.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
47	30.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
48	30.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
49	30.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
50	30.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
51	30.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
52	29.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
53	29.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
54	29.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
55	29.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
56	29.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
57	29.400	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
58	29.300	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
59	29.200	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
60	29.100	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
61	29.000	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
62	28.900	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	
63	28.800	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	
64	28.700	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	
65	28.600	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00	

66	28.500	7.33	1.93	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
77	27.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
79	27.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
114	23.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00

116	23.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
127	22.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
129	22.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	1.92	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.36	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.55	0.12	0.00	0.00	0.00	0.00	0.00	2.70			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM

34	31.700	31.80	0.00	0.00	0.00	6.08	16.14	0.00	16.14	0.00	1.58	0.10	0.46	2.15	0.00	75.04	0.00	0.	0.00
35	31.600	31.80	0.00	0.00	0.00	6.07	16.19	0.00	16.19	0.00	1.59	0.10	0.46	2.15	0.00	75.08	0.00	0.	0.00
36	31.500	31.80	0.00	0.00	0.00	6.07	16.24	0.00	16.24	0.00	1.59	0.10	0.46	2.15	0.00	75.12	0.00	0.	0.00
37	31.400	31.80	0.00	0.00	0.00	6.06	16.30	0.00	16.30	0.00	1.59	0.10	0.45	2.15	0.00	75.16	0.00	0.	0.00
38	31.300	31.80	0.00	0.00	0.00	6.06	16.35	0.00	16.35	0.00	1.60	0.10	0.45	2.15	0.00	75.20	0.00	0.	0.00
39	31.200	31.80	0.00	0.00	0.00	6.05	16.40	0.00	16.40	0.00	1.60	0.10	0.45	2.15	0.00	75.24	0.00	0.	0.00
40	31.100	31.80	0.00	0.00	0.00	6.05	16.45	0.00	16.45	0.00	1.60	0.10	0.44	2.15	0.00	75.28	0.00	0.	0.00
41	31.000	31.80	0.00	0.00	0.00	6.04	16.50	0.00	16.50	0.00	1.61	0.10	0.44	2.15	0.00	75.31	0.00	0.	0.00
42	30.900	31.80	0.00	0.00	0.00	6.04	16.55	0.00	16.55	0.00	1.61	0.10	0.44	2.15	0.00	75.35	0.00	0.	0.00
43	30.800	31.80	0.00	0.00	0.00	6.04	16.61	0.00	16.61	0.00	1.61	0.10	0.43	2.15	0.00	75.39	0.00	0.	0.00
44	30.700	31.80	0.00	0.00	0.00	6.03	16.66	0.00	16.66	0.00	1.61	0.10	0.43	2.15	0.00	75.43	0.00	0.	0.00
45	30.600	31.80	0.00	0.00	0.00	6.03	16.71	0.00	16.71	0.00	1.62	0.10	0.43	2.15	0.00	75.47	0.00	0.	0.00
46	30.500	31.80	0.00	0.00	0.00	6.02	16.76	0.00	16.76	0.00	1.62	0.10	0.43	2.15	0.00	75.51	0.00	0.	0.00
47	30.400	31.80	0.00	0.00	0.00	6.02	16.81	0.00	16.81	0.00	1.62	0.10	0.42	2.15	0.00	75.55	0.00	0.	0.00
48	30.300	31.80	0.00	0.00	0.00	6.01	16.86	0.00	16.86	0.00	1.63	0.10	0.42	2.15	0.00	75.59	0.00	0.	0.00
49	30.200	31.80	0.00	0.00	0.00	6.01	16.91	0.00	16.91	0.00	1.63	0.10	0.42	2.15	0.00	75.63	0.00	0.	0.00
50	30.100	31.80	0.00	0.00	0.00	6.00	16.96	0.00	16.96	0.00	1.63	0.10	0.41	2.15	0.00	75.67	0.00	0.	0.00
51	30.000	31.80	0.00	0.00	0.00	6.00	17.01	0.00	17.01	0.00	1.64	0.10	0.41	2.15	0.00	75.71	0.00	0.	0.00
52	29.900	31.80	0.00	0.00	0.00	6.00	17.06	0.00	17.06	0.00	1.64	0.10	0.41	2.15	0.00	75.75	0.00	0.	0.00
53	29.800	31.80	0.00	0.00	0.00	5.99	17.11	0.00	17.11	0.00	1.64	0.10	0.40	2.15	0.00	75.79	0.00	0.	0.00
54	29.700	31.80	0.00	0.00	0.00	5.99	17.16	0.00	17.16	0.00	1.65	0.10	0.40	2.15	0.00	75.83	0.00	0.	0.00
55	29.600	31.80	0.00	0.00	0.00	5.98	17.21	0.00	17.21	0.00	1.65	0.10	0.40	2.15	0.00	75.87	0.00	0.	0.00
56	29.500	31.80	0.00	0.00	0.00	5.98	17.25	0.00	17.25	0.00	1.65	0.10	0.40	2.15	0.00	75.91	0.00	0.	0.00
57	29.400	31.80	0.00	0.00	0.00	5.97	17.30	0.00	17.30	0.00	1.65	0.10	0.39	2.15	0.00	75.94	0.00	0.	0.00
58	29.300	31.80	0.00	0.00	0.00	5.97	17.35	0.00	17.35	0.00	1.66	0.10	0.39	2.15	0.00	75.98	0.00	0.	0.00
59	29.200	31.80	0.00	0.00	0.00	5.97	17.40	0.00	17.40	0.00	1.66	0.10	0.39	2.15	0.00	76.02	0.00	0.	0.00
60	29.100	31.80	0.00	0.00	0.00	5.96	17.45	0.00	17.45	0.00	1.66	0.10	0.38	2.15	0.00	76.06	0.00	0.	0.00
61	29.000	31.80	0.00	0.00	0.00	5.96	17.49	0.00	17.49	0.00	1.67	0.10	0.38	2.15	0.00	76.10	0.00	0.	0.00
62	28.900	31.80	0.00	0.00	0.00	5.95	17.54	0.00	17.54	0.00	1.67	0.10	0.38	2.15	0.00	76.14	0.00	0.	0.00
63	28.800	31.80	0.00	0.00	0.00	5.95	17.59	0.00	17.59	0.00	1.67	0.10	0.38	2.15	0.00	76.18	0.00	0.	0.00
64	28.700	31.80	0.00	0.00	0.00	5.95	17.64	0.00	17.64	0.00	1.67	0.10	0.37	2.15	0.00	76.22	0.00	0.	0.00
65	28.600	31.80	0.00	0.00	0.00	5.94	17.68	0.00	17.68	0.00	1.68	0.10	0.37	2.15	0.00	76.26	0.00	0.	0.00
66	28.500	31.80	0.00	0.00	0.00	5.94	17.73	0.00	17.73	0.00	1.68	0.10	0.37	2.15	0.00	76.30	0.00	0.	0.00
67	28.400	31.80	0.00	0.00	0.00	5.93	17.78	0.00	17.78	0.00	1.68	0.10	0.36	2.15	0.00	76.34	0.00	0.	0.00
68	28.300	31.80	0.00	0.00	0.00	5.93	17.82	0.00	17.82	0.00	1.69	0.10	0.36	2.15	0.00	76.38	0.00	0.	0.00
69	28.200	31.80	0.00	0.00	0.00	5.93	17.87	0.00	17.87	0.00	1.69	0.10	0.36	2.15	0.00	76.42	0.00	0.	0.00
70	28.100	31.80	0.00	0.00	0.00	5.92	17.92	0.00	17.92	0.00	1.69	0.10	0.35	2.15	0.00	76.46	0.00	0.	0.00
71	28.000	31.80	0.00	0.00	0.00	5.92	17.96	0.00	17.96	0.00	1.70	0.10	0.35	2.15	0.00	76.50	0.00	0.	0.00
72	27.900	31.80	0.00	0.00	0.00	5.91	18.01	0.00	18.01	0.00	1.70	0.10	0.35	2.15	0.00	76.54	0.00	0.	0.00
73	27.800	31.80	0.00	0.00	0.00	5.91	18.06	0.00	18.06	0.00	1.70	0.10	0.35	2.15	0.00	76.57	0.00	0.	0.00
74	27.700	31.80	0.00	0.00	0.00	5.91	18.10	0.00	18.10	0.00	1.70	0.10	0.34	2.15	0.00	76.61	0.00	0.	0.00
75	27.600	31.80	0.00	0.00	0.00	5.90	18.15	0.00	18.15	0.00	1.71	0.10	0.34	2.15	0.00	76.65	0.00	0.	0.00
76	27.500	31.80	0.00	0.00	0.00	5.90	18.19	0.00	18.19	0.00	1.71	0.10	0.34	2.15	0.00	76.69	0.00	0.	0.00
77	27.400	31.80	0.00	0.00	0.00	5.89	18.24	0.00	18.24	0.00	1.71	0.10	0.33	2.15	0.00	76.73	0.00	0.	0.00
78	27.300	31.80	0.00	0.00	0.00	5.89	18.28	0.00	18.28	0.00	1.72	0.10	0.33	2.15	0.00	76.77	0.00	0.	0.00
79	27.200	31.80	0.00	0.00	0.00	5.89	18.33	0.00	18.33	0.00	1.72	0.10	0.33	2.15	0.00	76.81	0.00	0.	0.00
80	27.100	31.80	0.00	0.00	0.00	5.88	18.37	0.00	18.37	0.00	1.72	0.10	0.33	2.15	0.00	76.85	0.00	0.	0.00
81	27.000	31.80	0.00	0.00	0.00	5.88	18.42	0.00	18.42	0.00	1.72	0.10	0.32	2.15	0.00	76.89	0.00	0.	0.00
82	26.900	31.80	0.00	0.00	0.00	5.87	18.46	0.00	18.46	0.00	1.73	0.10	0.32	2.15	0.00	76.93	0.00	0.	0.00
83	26.800	31.80	0.00	0.00	0.00	5.87	18.50	0.00	18.50	0.00	1.73	0.10	0.32	2.15	0.00	76.97	0.00	0.	0.00

84	26.700	31.80	0.00	0.00	0.00	5.87	18.55	0.00	18.55	0.00	1.73	0.10	0.31	2.15	0.00	77.01	0.00	0.	0.00
85	26.600	31.80	0.00	0.00	0.00	5.86	18.59	0.00	18.59	0.00	1.74	0.10	0.31	2.15	0.00	77.05	0.00	0.	0.00
86	26.500	31.80	0.00	0.00	0.00	5.86	18.63	0.00	18.63	0.00	1.74	0.10	0.31	2.15	0.00	77.09	0.00	0.	0.00
87	26.400	31.80	0.00	0.00	0.00	5.86	18.68	0.00	18.68	0.00	1.74	0.10	0.31	2.15	0.00	77.13	0.00	0.	0.00
88	26.300	31.80	0.00	0.00	0.00	5.85	18.72	0.00	18.72	0.00	1.74	0.10	0.30	2.15	0.00	77.17	0.00	0.	0.00
89	26.200	31.80	0.00	0.00	0.00	5.85	18.76	0.00	18.76	0.00	1.75	0.10	0.30	2.15	0.00	77.20	0.00	0.	0.00
90	26.100	31.80	0.00	0.00	0.00	5.85	18.81	0.00	18.81	0.00	1.75	0.10	0.30	2.15	0.00	77.24	0.00	0.	0.00
91	26.000	31.80	0.00	0.00	0.00	5.84	18.85	0.00	18.85	0.00	1.75	0.10	0.30	2.15	0.00	77.28	0.00	0.	0.00
92	25.900	31.80	0.00	0.00	0.00	5.84	18.89	0.00	18.89	0.00	1.75	0.10	0.29	2.15	0.00	77.32	0.00	0.	0.00
93	25.800	31.80	0.00	0.00	0.00	5.83	18.93	0.00	18.93	0.00	1.76	0.10	0.29	2.15	0.00	77.36	0.00	0.	0.00
94	25.700	31.80	0.00	0.00	0.00	5.83	18.98	0.00	18.98	0.00	1.76	0.10	0.29	2.15	0.00	77.40	0.00	0.	0.00
95	25.600	31.80	0.00	0.00	0.00	5.83	19.02	0.00	19.02	0.00	1.76	0.10	0.28	2.15	0.00	77.44	0.00	0.	0.00
96	25.500	31.80	0.00	0.00	0.00	5.82	19.06	0.00	19.06	0.00	1.77	0.10	0.28	2.15	0.00	77.48	0.00	0.	0.00
97	25.400	31.80	0.00	0.00	0.00	5.82	19.10	0.00	19.10	0.00	1.77	0.10	0.28	2.15	0.00	77.52	0.00	0.	0.00
98	25.300	31.80	0.00	0.00	0.00	5.82	19.14	0.00	19.14	0.00	1.77	0.10	0.28	2.15	0.00	77.56	0.00	0.	0.00
99	25.200	31.80	0.00	0.00	0.00	5.81	19.19	0.00	19.19	0.00	1.77	0.10	0.27	2.15	0.00	77.60	0.00	0.	0.00
100	25.100	31.80	0.00	0.00	0.00	5.81	19.23	0.00	19.23	0.00	1.78	0.10	0.27	2.15	0.00	77.64	0.00	0.	0.00
101	25.000	31.80	0.00	0.00	0.00	5.81	19.27	0.00	19.27	0.00	1.78	0.10	0.27	2.15	0.00	77.68	0.00	0.	0.00
102	24.900	31.80	0.00	0.00	0.00	5.80	19.31	0.00	19.31	0.00	1.78	0.10	0.26	2.15	0.00	77.72	0.00	0.	0.00
103	24.800	31.80	0.00	0.00	0.00	5.80	19.35	0.00	19.35	0.00	1.78	0.10	0.26	2.15	0.00	77.76	0.00	0.	0.00
104	24.700	31.80	0.00	0.00	0.00	5.80	19.39	0.00	19.39	0.00	1.79	0.10	0.26	2.15	0.00	77.80	0.00	0.	0.00
105	24.600	31.80	0.00	0.00	0.00	5.79	19.43	0.00	19.43	0.00	1.79	0.10	0.26	2.15	0.00	77.83	0.00	0.	0.00
106	24.500	31.80	0.00	0.00	0.00	5.79	19.47	0.00	19.47	0.00	1.79	0.10	0.25	2.15	0.00	77.87	0.00	0.	0.00
107	24.400	31.80	0.00	0.00	0.00	5.79	19.51	0.00	19.51	0.00	1.80	0.10	0.25	2.15	0.00	77.91	0.00	0.	0.00
108	24.300	31.80	0.00	0.00	0.00	5.78	19.55	0.00	19.55	0.00	1.80	0.10	0.25	2.15	0.00	77.95	0.00	0.	0.00
109	24.200	31.80	0.00	0.00	0.00	5.78	19.59	0.00	19.59	0.00	1.80	0.10	0.25	2.15	0.00	77.99	0.00	0.	0.00
110	24.100	31.80	0.00	0.00	0.00	5.78	19.63	0.00	19.63	0.00	1.80	0.10	0.24	2.15	0.00	78.03	0.00	0.	0.00
111	24.000	31.80	0.00	0.00	0.00	5.77	19.67	0.00	19.67	0.00	1.81	0.10	0.24	2.15	0.00	78.07	0.00	0.	0.00
112	23.900	31.80	0.00	0.00	0.00	5.77	19.71	0.00	19.71	0.00	1.81	0.10	0.24	2.15	0.00	78.11	0.00	0.	0.00
113	23.800	31.80	0.00	0.00	0.00	5.77	19.75	0.00	19.75	0.00	1.81	0.10	0.24	2.15	0.00	78.15	0.00	0.	0.00
114	23.700	31.80	0.00	0.00	0.00	5.76	19.79	0.00	19.79	0.00	1.81	0.10	0.23	2.15	0.00	78.19	0.00	0.	0.00
115	23.600	31.80	0.00	0.00	0.00	5.76	19.83	0.00	19.83	0.00	1.82	0.10	0.23	2.15	0.00	78.23	0.00	0.	0.00
116	23.500	31.80	0.00	0.00	0.00	5.76	19.87	0.00	19.87	0.00	1.82	0.10	0.23	2.15	0.00	78.27	0.00	0.	0.00
117	23.400	31.80	0.00	0.00	0.00	5.75	19.91	0.00	19.91	0.00	1.82	0.10	0.22	2.15	0.00	78.31	0.00	0.	0.00
118	23.300	31.80	0.00	0.00	0.00	5.75	19.95	0.00	19.95	0.00	1.82	0.10	0.22	2.15	0.00	78.35	0.00	0.	0.00
119	23.200	31.80	0.00	0.00	0.00	5.75	19.98	0.00	19.98	0.00	1.83	0.10	0.22	2.15	0.00	78.39	0.00	0.	0.00
120	23.100	31.80	0.00	0.00	0.00	5.74	20.02	0.00	20.02	0.00	1.83	0.10	0.22	2.15	0.00	78.43	0.00	0.	0.00
121	23.000	31.80	0.00	0.00	0.00	5.74	20.06	0.00	20.06	0.00	1.83	0.10	0.21	2.15	0.00	78.46	0.00	0.	0.00
122	22.900	31.80	0.00	0.00	0.00	5.74	20.10	0.00	20.10	0.00	1.83	0.10	0.21	2.15	0.00	78.50	0.00	0.	0.00
123	22.800	31.80	0.00	0.00	0.00	5.74	20.14	0.00	20.14	0.00	1.84	0.10	0.21	2.15	0.00	78.54	0.00	0.	0.00
124	22.700	31.80	0.00	0.00	0.00	5.73	20.17	0.00	20.17	0.00	1.84	0.10	0.21	2.15	0.00	78.58	0.00	0.	0.00
125	22.600	31.80	0.00	0.00	0.00	5.73	20.21	0.00	20.21	0.00	1.84	0.10	0.20	2.15	0.00	78.62	0.00	0.	0.00
126	22.500	31.80	0.00	0.00	0.00	5.73	20.25	0.00	20.25	0.00	1.85	0.10	0.20	2.15	0.00	78.66	0.00	0.	0.00
127	22.400	31.80	0.00	0.00	0.00	5.72	20.29	0.00	20.29	0.00	1.85	0.10	0.20	2.15	0.00	78.70	0.00	0.	0.00
128	22.300	31.80	0.00	0.00	0.00	5.72	20.32	0.00	20.32	0.00	1.85	0.10	0.20	2.15	0.00	78.74	0.00	0.	0.00
129	22.200	31.80	0.00	0.00	0.00	5.72	20.36	0.00	20.36	0.00	1.85	0.10	0.19	2.15	0.00	78.78	0.00	0.	0.00
130	22.100	31.80	0.00	0.00	0.00	5.71	20.40	0.00	20.40	0.00	1.86	0.11	0.19	2.15	0.00	78.82	0.00	0.	0.00
131	22.000	31.80	0.00	0.00	0.00	5.71	20.44	0.00	20.44	0.00	1.86	0.11	0.19	2.15	0.00	78.86	0.00	0.	0.00
132	21.900	31.80	0.00	0.00	0.00	5.71	20.47	0.00	20.47	0.00	1.86	0.11	0.19	2.15	0.00	78.90	0.00	0.	0.00
133	21.800	31.80	0.00	0.00	0.00	5.71	20.51	0.00	20.51	0.00	1.86	0.11	0.18	2.15	0.00	78.94	0.00	0.	0.00

134	21.700	31.80	0.00	0.00	0.00	5.70	20.55	0.00	20.55	0.00	1.87	0.11	0.18	2.15	0.00	78.98	0.00	0.	0.00
135	21.600	31.80	0.00	0.00	0.00	5.70	20.58	0.00	20.58	0.00	1.87	0.11	0.18	2.15	0.00	79.02	0.00	0.	0.00
136	21.500	31.80	0.00	0.00	0.00	5.70	20.62	0.00	20.62	0.00	1.87	0.11	0.17	2.15	0.00	79.06	0.00	0.	0.00
137	21.400	31.80	0.00	0.00	0.00	5.69	20.65	0.00	20.65	0.00	1.87	0.11	0.17	2.15	0.00	79.09	0.00	0.	0.00
138	21.300	31.80	0.00	0.00	0.00	5.69	20.69	0.00	20.69	0.00	1.88	0.11	0.17	2.15	0.00	79.13	0.00	0.	0.00
139	21.200	31.80	0.00	0.00	0.00	5.69	20.73	0.00	20.73	0.00	1.88	0.11	0.17	2.15	0.00	79.17	0.00	0.	0.00
140	21.100	31.80	0.00	0.00	0.00	5.69	20.76	0.00	20.76	0.00	1.88	0.11	0.16	2.15	0.00	79.21	0.00	0.	0.00
141	21.000	31.80	0.00	0.00	0.00	5.68	20.80	0.00	20.80	0.00	1.88	0.11	0.16	2.15	0.00	79.25	0.00	0.	0.00
142	20.900	31.80	0.00	0.00	0.00	5.68	20.83	0.00	20.83	0.00	1.89	0.11	0.16	2.15	0.00	79.29	0.00	0.	0.00
143	20.800	31.80	0.00	0.00	0.00	5.68	20.87	0.00	20.87	0.00	1.89	0.11	0.16	2.15	0.00	79.33	0.00	0.	0.00
144	20.700	31.80	0.00	0.00	0.00	5.67	20.90	0.00	20.90	0.00	1.89	0.11	0.15	2.15	0.00	79.37	0.00	0.	0.00
145	20.600	31.80	0.00	0.00	0.00	5.67	20.94	0.00	20.94	0.00	1.89	0.11	0.15	2.15	0.00	79.41	0.00	0.	0.00
146	20.500	31.80	0.00	0.00	0.00	5.67	20.97	0.00	20.97	0.00	1.89	0.11	0.15	2.15	0.00	79.45	0.00	0.	0.00
147	20.400	31.80	0.00	0.00	0.00	5.67	21.01	0.00	21.01	0.00	1.90	0.11	0.15	2.15	0.00	79.49	0.00	0.	0.00
148	20.300	31.80	0.00	0.00	0.00	5.66	21.04	0.00	21.04	0.00	1.90	0.11	0.14	2.15	0.00	79.53	0.00	0.	0.00
149	20.200	31.80	0.00	0.00	0.00	5.66	21.08	0.00	21.08	0.00	1.90	0.11	0.14	2.15	0.00	79.57	0.00	0.	0.00
150	20.100	31.80	0.00	0.00	0.00	5.66	21.11	0.00	21.11	0.00	1.90	0.11	0.14	2.15	0.00	79.61	0.00	0.	0.00
151	20.000	31.80	0.00	0.00	0.00	5.66	21.14	0.00	21.14	0.00	1.91	0.11	0.14	2.15	0.00	79.65	0.00	0.	0.00
152	19.900	31.80	0.00	0.00	0.00	5.65	21.18	0.00	21.18	0.00	1.91	0.11	0.13	2.15	0.00	79.69	0.00	0.	0.00
153	19.800	31.80	0.00	0.00	0.00	5.65	21.21	0.00	21.21	0.00	1.91	0.11	0.13	2.15	0.00	79.72	0.00	0.	0.00
154	19.700	31.80	0.00	0.00	0.00	5.65	21.25	0.00	21.25	0.00	1.91	0.11	0.13	2.15	0.00	79.76	0.00	0.	0.00
155	19.600	31.80	0.00	0.00	0.00	5.65	21.28	0.00	21.28	0.00	1.92	0.11	0.13	2.15	0.00	79.80	0.00	0.	0.00
156	19.500	31.80	0.00	0.00	0.00	5.64	21.31	0.00	21.31	0.00	1.92	0.11	0.12	2.15	0.00	79.84	0.00	0.	0.00
157	19.400	31.80	0.00	0.00	0.00	5.64	21.35	0.00	21.35	0.00	1.92	0.11	0.12	2.15	0.00	79.88	0.00	0.	0.00
158	19.300	31.80	0.00	0.00	0.00	5.64	21.38	0.00	21.38	0.00	1.92	0.11	0.12	2.15	0.00	79.92	0.00	0.	0.00
159	19.200	31.80	0.00	0.00	0.00	5.64	21.41	0.00	21.41	0.00	1.93	0.11	0.12	2.15	0.00	79.96	0.00	0.	0.00
160	19.100	31.80	0.00	0.00	0.00	5.63	21.44	0.00	21.44	0.00	1.93	0.11	0.11	2.15	0.00	80.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 3 120401-G to Turtle Bayou Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
161	UPR RCH	16.98659	31.80	0.00	0.00	0.00	5.63	21.44	0.00	21.44	0.00	1.93	0.11	0.11	0.00	80.00	0.00	0.00
EACH	INCR	0.00962	30.00	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01346																
161	WSTLD	-3.75680	31.80	0.00	0.00	0.00	5.68	21.42	0.00	21.42	0.00	1.93	0.11	0.11	0.00	79.62	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	PRISM m³	VELO m/s	TIDAL VELO m²/s	TIDAL m/s	DISPRSN	MEAN
161	19.10	19.00	13.22594	0.0	0.08312	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
162	19.00	18.90	13.22209	0.0	0.08310	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
163	18.90	18.80	13.21825	0.0	0.08307	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
164	18.80	18.70	13.21440	0.0	0.08305	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
165	18.70	18.60	13.21056	0.0	0.08302	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
166	18.60	18.50	13.20671	0.0	0.08300	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
167	18.50	18.40	13.20286	0.0	0.08297	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
168	18.40	18.30	13.19902	0.0	0.08295	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
169	18.30	18.20	13.19517	0.0	0.08293	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		
170	18.20	18.10	13.19133	0.0	0.08290	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083		

171	18.10	18.00	13.18748	0.0	0.08288	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
172	18.00	17.90	13.18363	0.0	0.08285	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
173	17.90	17.80	13.17979	0.0	0.08283	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
174	17.80	17.70	13.17594	0.0	0.08281	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
175	17.70	17.60	13.17209	0.0	0.08278	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
176	17.60	17.50	13.16825	0.0	0.08276	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
177	17.50	17.40	13.16440	0.0	0.08273	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
178	17.40	17.30	13.16056	0.0	0.08271	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
179	17.30	17.20	13.15671	0.0	0.08268	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
180	17.20	17.10	13.15286	0.0	0.08266	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
181	17.10	17.00	13.14902	0.0	0.08264	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
182	17.00	16.90	13.14517	0.0	0.08261	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
183	16.90	16.80	13.14132	0.0	0.08259	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
184	16.80	16.70	13.13748	0.0	0.08256	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
185	16.70	16.60	13.13363	0.0	0.08254	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
186	16.60	16.50	13.12979	0.0	0.08252	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.083
187	16.50	16.40	13.12594	0.0	0.08249	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
188	16.40	16.30	13.12209	0.0	0.08247	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
189	16.30	16.20	13.11825	0.0	0.08244	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
190	16.20	16.10	13.11440	0.0	0.08242	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
191	16.10	16.00	13.11056	0.0	0.08239	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
192	16.00	15.90	13.10671	0.0	0.08237	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
193	15.90	15.80	13.10286	0.0	0.08235	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
194	15.80	15.70	13.09902	0.0	0.08232	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
195	15.70	15.60	13.09517	0.0	0.08230	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
196	15.60	15.50	13.09132	0.0	0.08227	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
197	15.50	15.40	13.08748	0.0	0.08225	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
198	15.40	15.30	13.08363	0.0	0.08222	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
199	15.30	15.20	13.07979	0.0	0.08220	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
200	15.20	15.10	13.07594	0.0	0.08218	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
201	15.10	15.00	13.07209	0.0	0.08215	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
202	15.00	14.90	13.06825	0.0	0.08213	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
203	14.90	14.80	13.06440	0.0	0.08210	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
204	14.80	14.70	13.06056	0.0	0.08208	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
205	14.70	14.60	13.05671	0.0	0.08206	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
206	14.60	14.50	13.05286	0.0	0.08203	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
207	14.50	14.40	13.04902	0.0	0.08201	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
208	14.40	14.30	13.04517	0.0	0.08198	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
209	14.30	14.20	13.04132	0.0	0.08196	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
210	14.20	14.10	13.03748	0.0	0.08193	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
211	14.10	14.00	13.03363	0.0	0.08191	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
212	14.00	13.90	13.02979	0.0	0.08189	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.082
TOT					0.73			827424.00	468000.00						
AVG				0.0825			1.77	90.00			159.12				
CUM					1.97										

********** 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		
161	19.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00	

162	18.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00
177	17.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
179	17.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.60	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00
209	14.200	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.59	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00

212 13.900 7.33 0.59 0.09 0.00 0.00 0.00 0.00 0.00 3.15 3.15 3.15 0.03 0.00 0.38 0.00 0.00 0.00 5.16 0.00 0.00 0.00 0.00
AVG 20 DEG C RATE 0.48 0.05 0.00 0.00 0.00 0.00 0.00 1.50 0.02 0.00 0.15 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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
161	19.000	31.80	0.00	0.00	0.00	5.68	21.42	0.00	21.42	0.00	1.93	0.11	0.11	2.15	0.00	79.62	0.00	0.	0.00
162	18.900	31.80	0.00	0.00	0.00	5.73	21.38	0.00	21.38	0.00	1.93	0.11	0.11	2.14	0.00	79.23	0.00	0.	0.00
163	18.800	31.80	0.00	0.00	0.00	5.79	21.35	0.00	21.35	0.00	1.93	0.11	0.10	2.14	0.00	78.85	0.00	0.	0.00
164	18.700	31.80	0.00	0.00	0.00	5.84	21.31	0.00	21.31	0.00	1.92	0.11	0.10	2.13	0.00	78.46	0.00	0.	0.00
165	18.600	31.80	0.00	0.00	0.00	5.89	21.28	0.00	21.28	0.00	1.92	0.11	0.09	2.12	0.00	78.08	0.00	0.	0.00
166	18.500	31.80	0.00	0.00	0.00	5.94	21.25	0.00	21.25	0.00	1.92	0.11	0.09	2.12	0.00	77.69	0.00	0.	0.00
167	18.400	31.80	0.00	0.00	0.00	5.99	21.21	0.00	21.21	0.00	1.92	0.11	0.09	2.11	0.00	77.31	0.00	0.	0.00
168	18.300	31.80	0.00	0.00	0.00	6.04	21.18	0.00	21.18	0.00	1.92	0.11	0.08	2.11	0.00	76.92	0.00	0.	0.00
169	18.200	31.80	0.00	0.00	0.00	6.09	21.15	0.00	21.15	0.00	1.92	0.11	0.08	2.10	0.00	76.54	0.00	0.	0.00
170	18.100	31.80	0.00	0.00	0.00	6.14	21.11	0.00	21.11	0.00	1.92	0.11	0.07	2.10	0.00	76.15	0.00	0.	0.00
171	18.000	31.80	0.00	0.00	0.00	6.19	21.08	0.00	21.08	0.00	1.92	0.11	0.07	2.09	0.00	75.77	0.00	0.	0.00
172	17.900	31.80	0.00	0.00	0.00	6.23	21.05	0.00	21.05	0.00	1.91	0.11	0.07	2.09	0.00	75.38	0.00	0.	0.00
173	17.800	31.80	0.00	0.00	0.00	6.28	21.01	0.00	21.01	0.00	1.91	0.11	0.06	2.08	0.00	75.00	0.00	0.	0.00
174	17.700	31.80	0.00	0.00	0.00	6.32	20.98	0.00	20.98	0.00	1.91	0.11	0.06	2.08	0.00	74.62	0.00	0.	0.00
175	17.600	31.80	0.00	0.00	0.00	6.37	20.95	0.00	20.95	0.00	1.91	0.11	0.05	2.07	0.00	74.23	0.00	0.	0.00
176	17.500	31.80	0.00	0.00	0.00	6.41	20.91	0.00	20.91	0.00	1.91	0.11	0.05	2.07	0.00	73.85	0.00	0.	0.00
177	17.400	31.80	0.00	0.00	0.00	6.45	20.88	0.00	20.88	0.00	1.91	0.11	0.05	2.06	0.00	73.46	0.00	0.	0.00
178	17.300	31.80	0.00	0.00	0.00	6.49	20.85	0.00	20.85	0.00	1.91	0.11	0.04	2.06	0.00	73.08	0.00	0.	0.00
179	17.200	31.80	0.00	0.00	0.00	6.53	20.82	0.00	20.82	0.00	1.91	0.11	0.04	2.05	0.00	72.69	0.00	0.	0.00
180	17.100	31.80	0.00	0.00	0.00	6.57	20.78	0.00	20.78	0.00	1.91	0.11	0.03	2.05	0.00	72.31	0.00	0.	0.00
181	17.000	31.80	0.00	0.00	0.00	6.61	20.75	0.00	20.75	0.00	1.90	0.11	0.03	2.05	0.00	71.92	0.00	0.	0.00
182	16.900	31.80	0.00	0.00	0.00	6.65	20.72	0.00	20.72	0.00	1.90	0.11	0.03	2.04	0.00	71.54	0.00	0.	0.00
183	16.800	31.80	0.00	0.00	0.00	6.69	20.68	0.00	20.68	0.00	1.90	0.11	0.02	2.04	0.00	71.15	0.00	0.	0.00
184	16.700	31.80	0.00	0.00	0.00	6.72	20.65	0.00	20.65	0.00	1.90	0.11	0.02	2.03	0.00	70.77	0.00	0.	0.00
185	16.600	31.80	0.00	0.00	0.00	6.76	20.62	0.00	20.62	0.00	1.90	0.11	0.02	2.03	0.00	70.38	0.00	0.	0.00
186	16.500	31.80	0.00	0.00	0.00	6.80	20.59	0.00	20.59	0.00	1.90	0.11	0.01	2.02	0.00	70.00	0.00	0.	0.00
187	16.400	31.80	0.00	0.00	0.00	6.83	20.55	0.00	20.55	0.00	1.90	0.11	0.01	2.02	0.00	69.62	0.00	0.	0.00
188	16.300	31.80	0.00	0.00	0.00	6.86	20.52	0.00	20.52	0.00	1.90	0.11	0.01	2.01	0.00	69.23	0.00	0.	0.00
189	16.200	31.80	0.00	0.00	0.00	6.90	20.49	0.00	20.49	0.00	1.90	0.11	0.00	2.01	0.00	68.85	0.00	0.	0.00
190	16.100	31.80	0.00	0.00	0.00	6.93	20.46	0.00	20.46	0.00	1.89	0.11	0.00	2.00	0.00	68.46	0.00	0.	0.00
191	16.000	31.80	0.00	0.00	0.00	6.96	20.42	0.00	20.42	0.00	1.89	0.11	0.00	2.00	0.00	68.08	0.00	0.	0.00
192	15.900	31.80	0.00	0.00	0.00	6.99	20.39	0.00	20.39	0.00	1.89	0.11	0.00	2.00	0.00	67.69	0.00	0.	0.00
193	15.800	31.80	0.00	0.00	0.00	7.02	20.36	0.00	20.36	0.00	1.89	0.11	0.00	2.00	0.00	67.31	0.00	0.	0.00
194	15.700	31.80	0.00	0.00	0.00	7.05	20.33	0.00	20.33	0.00	1.89	0.11	0.00	2.00	0.00	66.92	0.00	0.	0.00
195	15.600	31.80	0.00	0.00	0.00	7.08	20.30	0.00	20.30	0.00	1.89	0.11	0.00	2.00	0.00	66.54	0.00	0.	0.00
196	15.500	31.80	0.00	0.00	0.00	7.11	20.26	0.00	20.26	0.00	1.89	0.11	0.00	2.00	0.00	66.15	0.00	0.	0.00
197	15.400	31.80	0.00	0.00	0.00	7.14	20.23	0.00	20.23	0.00	1.89	0.11	0.00	2.00	0.00	65.77	0.00	0.	0.00
198	15.300	31.80	0.00	0.00	0.00	7.16	20.20	0.00	20.20	0.00	1.89	0.11	0.00	2.00	0.00	65.38	0.00	0.	0.00
199	15.200	31.80	0.00	0.00	0.00	7.19	20.17	0.00	20.17	0.00	1.88	0.11	0.00	2.00	0.00	65.00	0.00	0.	0.00
200	15.100	31.80	0.00	0.00	0.00	7.21	20.14	0.00	20.14	0.00	1.88	0.11	0.00	1.99	0.00	64.62	0.00	0.	0.00
201	15.000	31.80	0.00	0.00	0.00	7.24	20.10	0.00	20.10	0.00	1.88	0.11	0.00	1.99	0.00	64.23	0.00	0.	0.00
202	14.900	31.80	0.00	0.00	0.00	7.26	20.07	0.00	20.07	0.00	1.88	0.11	0.00	1.99	0.00	63.85	0.00	0.	0.00
203	14.800	31.80	0.00	0.00	0.00	7.29	20.04	0.00	20.04	0.00	1.88	0.11	0.00	1.99	0.00	63.46	0.00	0.	0.00
204	14.700	31.80	0.00	0.00	0.00	7.31	20.01	0.00	20.01	0.00	1.88	0.11	0.00	1.99	0.00	63.08	0.00	0.	0.00

205	14.600	31.80	0.00	0.00	0.00	7.33	19.98	0.00	19.98	0.00	1.88	0.11	0.00	1.99	0.00	62.69	0.00	0.	0.00
206	14.500	31.80	0.00	0.00	0.00	7.35	19.95	0.00	19.95	0.00	1.88	0.11	0.00	1.99	0.00	62.31	0.00	0.	0.00
207	14.400	31.80	0.00	0.00	0.00	7.37	19.91	0.00	19.91	0.00	1.88	0.11	0.00	1.99	0.00	61.92	0.00	0.	0.00
208	14.300	31.80	0.00	0.00	0.00	7.39	19.88	0.00	19.88	0.00	1.88	0.11	0.00	1.99	0.00	61.54	0.00	0.	0.00
209	14.200	31.80	0.00	0.00	0.00	7.41	19.85	0.00	19.85	0.00	1.87	0.11	0.00	1.99	0.00	61.15	0.00	0.	0.00
210	14.100	31.80	0.00	0.00	0.00	7.43	19.82	0.00	19.82	0.00	1.87	0.11	0.00	1.98	0.00	60.77	0.00	0.	0.00
211	14.000	31.80	0.00	0.00	0.00	7.45	19.78	0.00	19.78	0.00	1.87	0.11	0.00	1.98	0.00	60.38	0.00	0.	0.00
212	13.900	31.80	0.00	0.00	0.00	7.46	19.66	0.00	19.66	0.00	1.87	0.11	0.00	1.98	0.00	60.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 4 Turtle Bayou to Carenero Bayou Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
213	UPR RCH	13.02979	31.80	0.00	0.00	0.00	7.46	19.66	0.00	19.66	0.00	1.87	0.11	0.00	0.00	60.00	0.00	0.00
EACH	INCR	0.01250	30.00	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01750																
213	WSTLD	1.69902	30.00	0.00	0.00	0.00	5.00	3.40	0.00	3.40	0.00	2.00	0.05	0.00	0.00	0.00	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
213	13.90	13.80	14.72381	11.5	0.05373	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
214	13.80	13.70	14.71881	11.5	0.05371	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
215	13.70	13.60	14.71381	11.5	0.05369	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
216	13.60	13.50	14.70881	11.5	0.05367	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
217	13.50	13.40	14.70381	11.5	0.05366	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
218	13.40	13.30	14.69881	11.5	0.05364	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
219	13.30	13.20	14.69381	11.5	0.05362	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
220	13.20	13.10	14.68881	11.5	0.05360	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
221	13.10	13.00	14.68381	11.4	0.05358	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
222	13.00	12.90	14.67881	11.4	0.05356	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
223	12.90	12.80	14.67381	11.4	0.05355	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
224	12.80	12.70	14.66881	11.4	0.05353	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
225	12.70	12.60	14.66381	11.4	0.05351	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.054
226	12.60	12.50	14.65880	11.4	0.05349	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
227	12.50	12.40	14.65380	11.4	0.05347	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
228	12.40	12.30	14.64880	11.4	0.05345	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
229	12.30	12.20	14.64380	11.4	0.05344	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
230	12.20	12.10	14.63880	11.4	0.05342	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
231	12.10	12.00	14.63380	11.4	0.05340	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
232	12.00	11.90	14.62880	11.3	0.05338	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
233	11.90	11.80	14.62380	11.3	0.05336	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
234	11.80	11.70	14.61880	11.3	0.05335	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
235	11.70	11.60	14.61380	11.3	0.05333	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
236	11.60	11.50	14.60880	11.3	0.05331	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
237	11.50	11.40	14.60380	11.3	0.05329	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
238	11.40	11.30	14.59880	11.3	0.05327	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
239	11.30	11.20	14.59380	11.3	0.05325	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
240	11.20	11.10	14.58880	11.3	0.05324	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053
241	11.10	11.00	14.58380	11.3	0.05322	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053

242	11.00	10.90	14.57880	11.2	0.05320	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
243	10.90	10.80	14.57380	11.2	0.05318	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
244	10.80	10.70	14.56880	11.2	0.05316	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
245	10.70	10.60	14.56380	11.2	0.05314	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
246	10.60	10.50	14.55880	11.2	0.05313	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
247	10.50	10.40	14.55380	11.2	0.05311	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
248	10.40	10.30	14.54880	11.2	0.05309	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
249	10.30	10.20	14.54380	11.2	0.05307	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
250	10.20	10.10	14.53880	11.2	0.05305	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
251	10.10	10.00	14.53380	11.2	0.05304	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
252	10.00	9.90	14.52880	11.1	0.05302	0.02	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.053								
TOT					0.87			1096160.00	620000.00														
AVG				0.0534			1.77	155.00			274.04												
CUM					2.84																		

********** 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		
213	13.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	
214	13.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	
215	13.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00	
216	13.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	
217	13.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	
218	13.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	
219	13.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00	
220	13.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00	
221	13.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00	
222	12.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00	
223	12.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00	
224	12.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00	
225	12.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	
226	12.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00	
227	12.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00	
228	12.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00	
229	12.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00	
230	12.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00	
231	12.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00	
232	11.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	
233	11.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00	
234	11.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	
235	11.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	
236	11.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00	
237	11.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00	
238	11.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00	
239	11.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	
240	11.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	
241	11.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	
242	10.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00	
243	10.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00	
244	10.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00	

245	10.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
213	13.800	31.80	0.00	0.00	0.00	7.22	17.83	0.00	17.83	0.00	1.88	0.10	0.00	1.99	0.00	59.50	0.00	0.	0.00	
214	13.700	31.80	0.00	0.00	0.00	7.25	17.79	0.00	17.79	0.00	1.88	0.10	0.00	1.99	0.00	59.00	0.00	0.	0.00	
215	13.600	31.80	0.00	0.00	0.00	7.29	17.75	0.00	17.75	0.00	1.88	0.11	0.00	1.99	0.00	58.50	0.00	0.	0.00	
216	13.500	31.80	0.00	0.00	0.00	7.32	17.71	0.00	17.71	0.00	1.88	0.11	0.00	1.98	0.00	58.00	0.00	0.	0.00	
217	13.400	31.80	0.00	0.00	0.00	7.35	17.67	0.00	17.67	0.00	1.88	0.11	0.00	1.98	0.00	57.50	0.00	0.	0.00	
218	13.300	31.80	0.00	0.00	0.00	7.37	17.63	0.00	17.63	0.00	1.88	0.11	0.00	1.98	0.00	57.00	0.00	0.	0.00	
219	13.200	31.80	0.00	0.00	0.00	7.40	17.59	0.00	17.59	0.00	1.87	0.11	0.00	1.98	0.00	56.50	0.00	0.	0.00	
220	13.100	31.80	0.00	0.00	0.00	7.43	17.56	0.00	17.56	0.00	1.87	0.11	0.00	1.98	0.00	56.00	0.00	0.	0.00	
221	13.000	31.80	0.00	0.00	0.00	7.45	17.52	0.00	17.52	0.00	1.87	0.11	0.00	1.98	0.00	55.50	0.00	0.	0.00	
222	12.900	31.80	0.00	0.00	0.00	7.48	17.48	0.00	17.48	0.00	1.87	0.11	0.00	1.98	0.00	55.00	0.00	0.	0.00	
223	12.800	31.80	0.00	0.00	0.00	7.50	17.44	0.00	17.44	0.00	1.87	0.11	0.00	1.98	0.00	54.50	0.00	0.	0.00	
224	12.700	31.80	0.00	0.00	0.00	7.52	17.40	0.00	17.40	0.00	1.87	0.11	0.00	1.97	0.00	54.00	0.00	0.	0.00	
225	12.600	31.80	0.00	0.00	0.00	7.54	17.36	0.00	17.36	0.00	1.87	0.11	0.00	1.97	0.00	53.50	0.00	0.	0.00	
226	12.500	31.80	0.00	0.00	0.00	7.56	17.32	0.00	17.32	0.00	1.86	0.11	0.00	1.97	0.00	53.00	0.00	0.	0.00	
227	12.400	31.80	0.00	0.00	0.00	7.58	17.29	0.00	17.29	0.00	1.86	0.11	0.00	1.97	0.00	52.50	0.00	0.	0.00	
228	12.300	31.80	0.00	0.00	0.00	7.59	17.25	0.00	17.25	0.00	1.86	0.11	0.00	1.97	0.00	52.00	0.00	0.	0.00	
229	12.200	31.80	0.00	0.00	0.00	7.61	17.21	0.00	17.21	0.00	1.86	0.11	0.00	1.97	0.00	51.50	0.00	0.	0.00	
230	12.100	31.80	0.00	0.00	0.00	7.63	17.17	0.00	17.17	0.00	1.86	0.11	0.00	1.97	0.00	51.00	0.00	0.	0.00	
231	12.000	31.80	0.00	0.00	0.00	7.64	17.13	0.00	17.13	0.00	1.86	0.11	0.00	1.96	0.00	50.50	0.00	0.	0.00	
232	11.900	31.80	0.00	0.00	0.00	7.65	17.09	0.00	17.09	0.00	1.86	0.11	0.00	1.96	0.00	50.00	0.00	0.	0.00	
233	11.800	31.80	0.00	0.00	0.00	7.67	17.06	0.00	17.06	0.00	1.85	0.11	0.00	1.96	0.00	49.50	0.00	0.	0.00	
234	11.700	31.80	0.00	0.00	0.00	7.68	17.02	0.00	17.02	0.00	1.85	0.11	0.00	1.96	0.00	49.00	0.00	0.	0.00	
235	11.600	31.80	0.00	0.00	0.00	7.69	16.98	0.00	16.98	0.00	1.85	0.11	0.00	1.96	0.00	48.50	0.00	0.	0.00	
236	11.500	31.80	0.00	0.00	0.00	7.70	16.94	0.00	16.94	0.00	1.85	0.11	0.00	1.96	0.00	48.00	0.00	0.	0.00	
237	11.400	31.80	0.00	0.00	0.00	7.70	16.91	0.00	16.91	0.00	1.85	0.11	0.00	1.96	0.00	47.50	0.00	0.	0.00	
238	11.300	31.80	0.00	0.00	0.00	7.71	16.87	0.00	16.87	0.00	1.85	0.11	0.00	1.95	0.00	47.00	0.00	0.	0.00	
239	11.200	31.80	0.00	0.00	0.00	7.72	16.83	0.00	16.83	0.00	1.85	0.11	0.00	1.95	0.00	46.50	0.00	0.	0.00	
240	11.100	31.80	0.00	0.00	0.00	7.72	16.79	0.00	16.79	0.00	1.84	0.11	0.00	1.95	0.00	46.00	0.00	0.	0.00	
241	11.000	31.80	0.00	0.00	0.00	7.73	16.76	0.00	16.76	0.00	1.84	0.11	0.00	1.95	0.00	45.50	0.00	0.	0.00	
242	10.900	31.80	0.00	0.00	0.00	7.73	16.72	0.00	16.72	0.00	1.84	0.11	0.00	1.95	0.00	45.00	0.00	0.	0.00	
243	10.800	31.80	0.00	0.00	0.00	7.73	16.68	0.00	16.68	0.00	1.84	0.11	0.00	1.95	0.00	44.50	0.00	0.	0.00	
244	10.700	31.80	0.00	0.00	0.00	7.73	16.65	0.00	16.65	0.00	1.84	0.11	0.00	1.95	0.00	44.00	0.00	0.	0.00	
245	10.600	31.80	0.00	0.00	0.00	7.74	16.61	0.00	16.61	0.00	1.84	0.11	0.00	1.95	0.00	43.50	0.00	0.	0.00	
246	10.500	31.80	0.00	0.00	0.00	7.74	16.57	0.00	16.57	0.00	1.83	0.11	0.00	1.94	0.00	43.00	0.00	0.	0.00	
247	10.400	31.80	0.00	0.00	0.00	7.73	16.54	0.00	16.54	0.00	1.83	0.11	0.00	1.94	0.00	42.50	0.00	0.	0.00	
248	10.300	31.80	0.00	0.00	0.00	7.73	16.50	0.00	16.50	0.00	1.83	0.11	0.00	1.94	0.00	42.00	0.00	0.	0.00	
249	10.200	31.80	0.00	0.00	0.00	7.73	16.46	0.00	16.46	0.00	1.83	0.11	0.00	1.94	0.00	41.50	0.00	0.	0.00	

250	10.100	31.80	0.00	0.00	0.00	7.73	16.43	0.00	16.43	0.00	1.83	0.11	0.00	1.94	0.00	41.00	0.00	0.	0.00
251	10.000	31.80	0.00	0.00	0.00	7.72	16.39	0.00	16.39	0.00	1.83	0.11	0.00	1.94	0.00	40.50	0.00	0.	0.00
252	9.900	31.80	0.00	0.00	0.00	7.72	16.36	0.00	16.36	0.00	1.83	0.11	0.00	1.94	0.00	40.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 5 Carenero Bayou to un canal 2 Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
253	UPR RCH	14.52880	31.80	0.00	0.00	0.00	7.72	16.36	0.00	16.36	0.00	1.83	0.11	0.00	0.00	40.00	0.00	0.00
EACH	INCR	0.00794	30.00	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01111																
253	WSTLD	-9.21150	31.80	0.00	0.00	0.00	7.71	16.33	0.00	16.33	0.00	1.83	0.11	0.00	0.00	39.75	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
253	9.90	9.80	5.31413	11.1	0.03340	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
254	9.80	9.70	5.31095	11.1	0.03338	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
255	9.70	9.60	5.30778	11.1	0.03336	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
256	9.60	9.50	5.30460	11.1	0.03334	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
257	9.50	9.40	5.30143	11.1	0.03332	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
258	9.40	9.30	5.29825	11.1	0.03330	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
259	9.30	9.20	5.29508	11.0	0.03328	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
260	9.20	9.10	5.29190	11.0	0.03326	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
261	9.10	9.00	5.28873	11.0	0.03324	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
262	9.00	8.90	5.28555	11.0	0.03322	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
263	8.90	8.80	5.28238	11.0	0.03320	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
264	8.80	8.70	5.27920	11.0	0.03318	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
265	8.70	8.60	5.27603	10.9	0.03316	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
266	8.60	8.50	5.27285	10.9	0.03314	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
267	8.50	8.40	5.26968	10.9	0.03312	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
268	8.40	8.30	5.26651	10.9	0.03310	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
269	8.30	8.20	5.26333	10.9	0.03308	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
270	8.20	8.10	5.26016	10.9	0.03306	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
271	8.10	8.00	5.25698	10.8	0.03304	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
272	8.00	7.90	5.25381	10.8	0.03302	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
273	7.90	7.80	5.25063	10.8	0.03300	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
274	7.80	7.70	5.24746	10.8	0.03298	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
275	7.70	7.60	5.24428	10.8	0.03296	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
276	7.60	7.50	5.24111	10.8	0.03294	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
277	7.50	7.40	5.23793	10.7	0.03292	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
278	7.40	7.30	5.23476	10.7	0.03290	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
279	7.30	7.20	5.23158	10.7	0.03288	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
280	7.20	7.10	5.22841	10.7	0.03286	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
281	7.10	7.00	5.22523	10.7	0.03284	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
282	7.00	6.90	5.22206	10.7	0.03282	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
283	6.90	6.80	5.21888	10.6	0.03280	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
284	6.80	6.70	5.21571	10.6	0.03278	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
285	6.70	6.60	5.21253	10.6	0.03276	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	
286	6.60	6.50	5.20936	10.6	0.03274	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033	

287	6.50	6.40	5.20618	10.6	0.03272	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
288	6.40	6.30	5.20301	10.6	0.03270	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
289	6.30	6.20	5.19983	10.6	0.03268	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
290	6.20	6.10	5.19666	10.5	0.03266	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
291	6.10	6.00	5.19349	10.5	0.03264	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
292	6.00	5.90	5.19031	10.5	0.03262	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
293	5.90	5.80	5.18714	10.5	0.03260	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
294	5.80	5.70	5.18396	10.5	0.03258	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
295	5.70	5.60	5.18079	10.5	0.03256	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
296	5.60	5.50	5.17761	10.4	0.03254	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
297	5.50	5.40	5.17444	10.4	0.03252	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
298	5.40	5.30	5.17126	10.4	0.03250	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
299	5.30	5.20	5.16809	10.4	0.03248	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
300	5.20	5.10	5.16491	10.4	0.03246	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
301	5.10	5.00	5.16174	10.4	0.03244	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
302	5.00	4.90	5.15856	10.3	0.03242	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
303	4.90	4.80	5.15539	10.3	0.03240	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
304	4.80	4.70	5.15221	10.3	0.03238	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
305	4.70	4.60	5.14904	10.3	0.03236	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
306	4.60	4.50	5.14586	10.3	0.03234	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
307	4.50	4.40	5.14269	10.3	0.03232	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
308	4.40	4.30	5.13951	10.3	0.03230	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
309	4.30	4.20	5.13634	10.2	0.03228	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
310	4.20	4.10	5.13316	10.2	0.03226	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
311	4.10	4.00	5.12999	10.2	0.03224	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
312	4.00	3.90	5.12681	10.2	0.03222	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
313	3.90	3.80	5.12364	10.2	0.03220	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
314	3.80	3.70	5.12047	10.2	0.03218	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
315	3.70	3.60	5.11729	10.1	0.03216	0.04	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.032
TOT					2.22			1002456.00	567000.00						
AVG				0.0328			1.77	90.00			159.12				
CUM					5.07										

********** 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		
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00	
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00	
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00	
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00	
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00	
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00	
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00	
264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00	
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00	
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00	

267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
253	9.800	31.80	0.00	0.00	0.00	7.71	16.33	0.00	16.33	0.00	1.83	0.11	0.00	1.93	0.00	39.75	0.00	0.	0.00
254	9.700	31.80	0.00	0.00	0.00	7.71	16.28	0.00	16.28	0.00	1.82	0.11	0.00	1.93	0.00	39.49	0.00	0.	0.00
255	9.600	31.80	0.00	0.00	0.00	7.70	16.22	0.00	16.22	0.00	1.82	0.11	0.00	1.93	0.00	39.24	0.00	0.	0.00
256	9.500	31.80	0.00	0.00	0.00	7.69	16.16	0.00	16.16	0.00	1.82	0.11	0.00	1.93	0.00	38.98	0.00	0.	0.00
257	9.400	31.80	0.00	0.00	0.00	7.67	16.10	0.00	16.10	0.00	1.82	0.11	0.00	1.93	0.00	38.73	0.00	0.	0.00
258	9.300	31.80	0.00	0.00	0.00	7.66	16.05	0.00	16.05	0.00	1.81	0.11	0.00	1.92	0.00	38.48	0.00	0.	0.00
259	9.200	31.80	0.00	0.00	0.00	7.65	15.99	0.00	15.99	0.00	1.81	0.11	0.00	1.92	0.00	38.22	0.00	0.	0.00
260	9.100	31.80	0.00	0.00	0.00	7.64	15.93	0.00	15.93	0.00	1.81	0.11	0.00	1.92	0.00	37.97	0.00	0.	0.00
261	9.000	31.80	0.00	0.00	0.00	7.63	15.88	0.00	15.88	0.00	1.81	0.11	0.00	1.92	0.00	37.71	0.00	0.	0.00
262	8.900	31.80	0.00	0.00	0.00	7.62	15.82	0.00	15.82	0.00	1.80	0.11	0.00	1.91	0.00	37.46	0.00	0.	0.00
263	8.800	31.80	0.00	0.00	0.00	7.60	15.77	0.00	15.77	0.00	1.80	0.11	0.00	1.91	0.00	37.21	0.00	0.	0.00
264	8.700	31.80	0.00	0.00	0.00	7.59	15.71	0.00	15.71	0.00	1.80	0.11	0.00	1.91	0.00	36.95	0.00	0.	0.00
265	8.600	31.80	0.00	0.00	0.00	7.58	15.65	0.00	15.65	0.00	1.80	0.11	0.00	1.91	0.00	36.70	0.00	0.	0.00
266	8.500	31.80	0.00	0.00	0.00	7.56	15.60	0.00	15.60	0.00	1.79	0.11	0.00	1.91	0.00	36.44	0.00	0.	0.00
267	8.400	31.80	0.00	0.00	0.00	7.55	15.54	0.00	15.54	0.00	1.79	0.11	0.00	1.90	0.00	36.19	0.00	0.	0.00
268	8.300	31.80	0.00	0.00	0.00	7.53	15.49	0.00	15.49	0.00	1.79	0.11	0.00	1.90	0.00	35.94	0.00	0.	0.00
269	8.200	31.80	0.00	0.00	0.00	7.52	15.44	0.00	15.44	0.00	1.79	0.11	0.00	1.90	0.00	35.68	0.00	0.	0.00
270	8.100	31.80	0.00	0.00	0.00	7.50	15.38	0.00	15.38	0.00	1.79	0.11	0.00	1.90	0.00	35.43	0.00	0.	0.00
271	8.000	31.80	0.00	0.00	0.00	7.49	15.33	0.00	15.33	0.00	1.78	0.11	0.00	1.89	0.00	35.17	0.00	0.	0.00
272	7.900	31.80	0.00	0.00	0.00	7.47	15.27	0.00	15.27	0.00	1.78	0.11	0.00	1.89	0.00	34.92	0.00	0.	0.00
273	7.800	31.80	0.00	0.00	0.00	7.46	15.22	0.00	15.22	0.00	1.78	0.11	0.00	1.89	0.00	34.67	0.00	0.	0.00
274	7.700	31.80	0.00	0.00	0.00	7.44	15.17	0.00	15.17	0.00	1.78	0.11	0.00	1.89	0.00	34.41	0.00	0.	0.00
275	7.600	31.80	0.00	0.00	0.00	7.42	15.11	0.00	15.11	0.00	1.77	0.11	0.00	1.89	0.00	34.16	0.00	0.	0.00
276	7.500	31.80	0.00	0.00	0.00	7.40	15.06	0.00	15.06	0.00	1.77	0.11	0.00	1.88	0.00	33.90	0.00	0.	0.00
277	7.400	31.80	0.00	0.00	0.00	7.39	15.01	0.00	15.01	0.00	1.77	0.11	0.00	1.88	0.00	33.65	0.00	0.	0.00
278	7.300	31.80	0.00	0.00	0.00	7.37	14.95	0.00	14.95	0.00	1.77	0.11	0.00	1.88	0.00	33.40	0.00	0.	0.00
279	7.200	31.80	0.00	0.00	0.00	7.35	14.90	0.00	14.90	0.00	1.76	0.11	0.00	1.88	0.00	33.14	0.00	0.	0.00
280	7.100	31.80	0.00	0.00	0.00	7.33	14.85	0.00	14.85	0.00	1.76	0.11	0.00	1.87	0.00	32.89	0.00	0.	0.00
281	7.000	31.80	0.00	0.00	0.00	7.31	14.80	0.00	14.80	0.00	1.76	0.11	0.00	1.87	0.00	32.63	0.00	0.	0.00
282	6.900	31.80	0.00	0.00	0.00	7.30	14.74	0.00	14.74	0.00	1.76	0.11	0.00	1.87	0.00	32.38	0.00	0.	0.00
283	6.800	31.80	0.00	0.00	0.00	7.28	14.69	0.00	14.69	0.00	1.76	0.11	0.00	1.87	0.00	32.13	0.00	0.	0.00
284	6.700	31.80	0.00	0.00	0.00	7.26	14.64	0.00	14.64	0.00	1.75	0.11	0.00	1.87	0.00	31.87	0.00	0.	0.00
285	6.600	31.80	0.00	0.00	0.00	7.24	14.59	0.00	14.59	0.00	1.75	0.11	0.00	1.86	0.00	31.62	0.00	0.	0.00
286	6.500	31.80	0.00	0.00	0.00	7.22	14.54	0.00	14.54	0.00	1.75	0.11	0.00	1.86	0.00	31.37	0.00	0.	0.00
287	6.400	31.80	0.00	0.00	0.00	7.20	14.49	0.00	14.49	0.00	1.75	0.11	0.00	1.86	0.00	31.11	0.00	0.	0.00
288	6.300	31.80	0.00	0.00	0.00	7.18	14.44	0.00	14.44	0.00	1.74	0.11	0.00	1.86	0.00	30.86	0.00	0.	0.00
289	6.200	31.80	0.00	0.00	0.00	7.16	14.39	0.00	14.39	0.00	1.74	0.11	0.00	1.85	0.00	30.60	0.00	0.	0.00
290	6.100	31.80	0.00	0.00	0.00	7.14	14.34	0.00	14.34	0.00	1.74	0.11	0.00	1.85	0.00	30.35	0.00	0.	0.00
291	6.000	31.80	0.00	0.00	0.00	7.11	14.29	0.00	14.29	0.00	1.74	0.11	0.00	1.85	0.00	30.10	0.00	0.	0.00
292	5.900	31.80	0.00	0.00	0.00	7.09	14.24	0.00	14.24	0.00	1.74	0.11	0.00	1.85	0.00	29.84	0.00	0.	0.00
293	5.800	31.80	0.00	0.00	0.00	7.07	14.19	0.00	14.19	0.00	1.73	0.11	0.00	1.85	0.00	29.59	0.00	0.	0.00
294	5.700	31.80	0.00	0.00	0.00	7.05	14.14	0.00	14.14	0.00	1.73	0.11	0.00	1.84	0.00	29.33	0.00	0.	0.00
295	5.600	31.80	0.00	0.00	0.00	7.03	14.09	0.00	14.09	0.00	1.73	0.11	0.00	1.84	0.00	29.08	0.00	0.	0.00
296	5.500	31.80	0.00	0.00	0.00	7.01	14.04	0.00	14.04	0.00	1.73	0.11	0.00	1.84	0.00	28.83	0.00	0.	0.00
297	5.400	31.80	0.00	0.00	0.00	6.98	13.99	0.00	13.99	0.00	1.72	0.11	0.00	1.84	0.00	28.57	0.00	0.	0.00
298	5.300	31.80	0.00	0.00	0.00	6.96	13.94	0.00	13.94	0.00	1.72	0.11	0.00	1.84	0.00	28.32	0.00	0.	0.00

299	5.200	31.80	0.00	0.00	0.00	6.94	13.89	0.00	13.89	0.00	1.72	0.11	0.00	1.83	0.00	28.06	0.00	0.	0.00
300	5.100	31.80	0.00	0.00	0.00	6.92	13.85	0.00	13.85	0.00	1.72	0.11	0.00	1.83	0.00	27.81	0.00	0.	0.00
301	5.000	31.80	0.00	0.00	0.00	6.89	13.80	0.00	13.80	0.00	1.72	0.11	0.00	1.83	0.00	27.56	0.00	0.	0.00
302	4.900	31.80	0.00	0.00	0.00	6.87	13.75	0.00	13.75	0.00	1.71	0.11	0.00	1.83	0.00	27.30	0.00	0.	0.00
303	4.800	31.80	0.00	0.00	0.00	6.85	13.70	0.00	13.70	0.00	1.71	0.11	0.00	1.82	0.00	27.05	0.00	0.	0.00
304	4.700	31.80	0.00	0.00	0.00	6.82	13.65	0.00	13.65	0.00	1.71	0.11	0.00	1.82	0.00	26.79	0.00	0.	0.00
305	4.600	31.80	0.00	0.00	0.00	6.80	13.61	0.00	13.61	0.00	1.71	0.11	0.00	1.82	0.00	26.54	0.00	0.	0.00
306	4.500	31.80	0.00	0.00	0.00	6.77	13.56	0.00	13.56	0.00	1.70	0.11	0.00	1.82	0.00	26.29	0.00	0.	0.00
307	4.400	31.80	0.00	0.00	0.00	6.75	13.51	0.00	13.51	0.00	1.70	0.11	0.00	1.82	0.00	26.03	0.00	0.	0.00
308	4.300	31.80	0.00	0.00	0.00	6.72	13.47	0.00	13.47	0.00	1.70	0.11	0.00	1.81	0.00	25.78	0.00	0.	0.00
309	4.200	31.80	0.00	0.00	0.00	6.70	13.42	0.00	13.42	0.00	1.70	0.11	0.00	1.81	0.00	25.52	0.00	0.	0.00
310	4.100	31.80	0.00	0.00	0.00	6.67	13.37	0.00	13.37	0.00	1.70	0.11	0.00	1.81	0.00	25.27	0.00	0.	0.00
311	4.000	31.80	0.00	0.00	0.00	6.65	13.33	0.00	13.33	0.00	1.69	0.11	0.00	1.81	0.00	25.02	0.00	0.	0.00
312	3.900	31.80	0.00	0.00	0.00	6.62	13.28	0.00	13.28	0.00	1.69	0.11	0.00	1.81	0.00	24.76	0.00	0.	0.00
313	3.800	31.80	0.00	0.00	0.00	6.60	13.23	0.00	13.23	0.00	1.69	0.11	0.00	1.80	0.00	24.51	0.00	0.	0.00
314	3.700	31.80	0.00	0.00	0.00	6.57	13.19	0.00	13.19	0.00	1.69	0.11	0.00	1.80	0.00	24.25	0.00	0.	0.00
315	3.600	31.80	0.00	0.00	0.00	6.55	13.14	0.00	13.14	0.00	1.69	0.11	0.00	1.80	0.00	24.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 6 un canal 2 to Corasaw conf. Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
316	UPR RCH	5.11729	31.80	0.00	0.00	0.00	6.55	13.14	0.00	13.14	0.00	1.69	0.11	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.01667	30.00	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.02333																

********** 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
316	3.60	3.50	5.11062	10.1	0.02628	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
317	3.50	3.40	5.10396	10.1	0.02624	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
318	3.40	3.30	5.09729	10.0	0.02621	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
319	3.30	3.20	5.09062	10.0	0.02618	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
320	3.20	3.10	5.08396	10.0	0.02614	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
321	3.10	3.00	5.07729	9.9	0.02611	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
322	3.00	2.90	5.07062	9.9	0.02607	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
323	2.90	2.80	5.06396	9.9	0.02604	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
324	2.80	2.70	5.05729	9.8	0.02600	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
325	2.70	2.60	5.05062	9.8	0.02597	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
326	2.60	2.50	5.04396	9.8	0.02594	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
327	2.50	2.40	5.03729	9.7	0.02590	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
328	2.40	2.30	5.03062	9.7	0.02587	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
329	2.30	2.20	5.02396	9.7	0.02583	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
330	2.20	2.10	5.01729	9.7	0.02580	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
331	2.10	2.00	5.01062	9.6	0.02576	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
332	2.00	1.90	5.00396	9.6	0.02573	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
333	1.90	1.80	4.99729	9.6	0.02570	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
334	1.80	1.70	4.99062	9.5	0.02566	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
335	1.70	1.60	4.98396	9.5	0.02563	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	
336	1.60	1.50	4.97729	9.5	0.02559	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026	

337	1.50	1.40	4.97062	9.4	0.02556	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
338	1.40	1.30	4.96396	9.4	0.02552	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
339	1.30	1.20	4.95729	9.4	0.02549	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
340	1.20	1.10	4.95062	9.3	0.02546	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
341	1.10	1.00	4.94396	9.3	0.02542	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
342	1.00	0.90	4.93729	9.3	0.02539	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
343	0.90	0.80	4.93062	9.2	0.02535	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
344	0.80	0.70	4.92396	9.2	0.02532	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
345	0.70	0.60	4.91729	9.2	0.02528	0.05	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.025
TOT					1.35			583440.00	330000.00						
AVG					0.0258		1.77	110.00			194.48				
CUM					6.41										

********** 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	
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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
316	3.500	31.82	0.00	0.00	0.00	6.51	13.08	0.00	13.08	0.00	1.68	0.11	0.00	1.80	0.00	24.00	0.00	0. 0.00
317	3.400	31.83	0.00	0.00	0.00	6.48	13.02	0.00	13.02	0.00	1.68	0.11	0.00	1.79	0.00	24.00	0.00	0. 0.00
318	3.300	31.85	0.00	0.00	0.00	6.45	12.96	0.00	12.96	0.00	1.68	0.11	0.00	1.79	0.00	24.00	0.00	0. 0.00
319	3.200	31.87	0.00	0.00	0.00	6.42	12.90	0.00	12.90	0.00	1.67	0.11	0.00	1.79	0.00	24.00	0.00	0. 0.00
320	3.100	31.88	0.00	0.00	0.00	6.39	12.84	0.00	12.84	0.00	1.67	0.11	0.00	1.78	0.00	24.00	0.00	0. 0.00
321	3.000	31.90	0.00	0.00	0.00	6.36	12.79	0.00	12.79	0.00	1.67	0.11	0.00	1.78	0.00	24.00	0.00	0. 0.00
322	2.900	31.92	0.00	0.00	0.00	6.34	12.73	0.00	12.73	0.00	1.66	0.11	0.00	1.78	0.00	24.00	0.00	0. 0.00
323	2.800	31.93	0.00	0.00	0.00	6.31	12.67	0.00	12.67	0.00	1.66	0.11	0.00	1.77	0.00	24.00	0.00	0. 0.00
324	2.700	31.95	0.00	0.00	0.00	6.28	12.61	0.00	12.61	0.00	1.66	0.11	0.00	1.77	0.00	24.00	0.00	0. 0.00
325	2.600	31.97	0.00	0.00	0.00	6.26	12.56	0.00	12.56	0.00	1.65	0.11	0.00	1.77	0.00	24.00	0.00	0. 0.00
326	2.500	31.98	0.00	0.00	0.00	6.23	12.50	0.00	12.50	0.00	1.65	0.11	0.00	1.76	0.00	24.00	0.00	0. 0.00
327	2.400	32.00	0.00	0.00	0.00	6.21	12.44	0.00	12.44	0.00	1.65	0.11	0.00	1.76	0.00	24.00	0.00	0. 0.00
328	2.300	32.02	0.00	0.00	0.00	6.19	12.39	0.00	12.39	0.00	1.65	0.11	0.00	1.76	0.00	24.00	0.00	0. 0.00
329	2.200	32.03	0.00	0.00	0.00	6.16	12.33	0.00	12.33	0.00	1.64	0.11	0.00	1.76	0.00	24.00	0.00	0. 0.00
330	2.100	32.05	0.00	0.00	0.00	6.14	12.28	0.00	12.28	0.00	1.64	0.11	0.00	1.75	0.00	24.00	0.00	0. 0.00
331	2.000	32.07	0.00	0.00	0.00	6.12	12.22	0.00	12.22	0.00	1.64	0.11	0.00	1.75	0.00	24.00	0.00	0. 0.00
332	1.900	32.08	0.00	0.00	0.00	6.10	12.17	0.00	12.17	0.00	1.63	0.11	0.00	1.75	0.00	24.00	0.00	0. 0.00
333	1.800	32.10	0.00	0.00	0.00	6.08	12.11	0.00	12.11	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0. 0.00
334	1.700	32.12	0.00	0.00	0.00	6.06	12.06	0.00	12.06	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0. 0.00
335	1.600	32.13	0.00	0.00	0.00	6.04	12.01	0.00	12.01	0.00	1.62	0.11	0.00	1.74	0.00	24.00	0.00	0. 0.00
336	1.500	32.15	0.00	0.00	0.00	6.02	11.95	0.00	11.95	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0. 0.00
337	1.400	32.17	0.00	0.00	0.00	6.01	11.90	0.00	11.90	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0. 0.00
338	1.300	32.18	0.00	0.00	0.00	5.99	11.85	0.00	11.85	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0. 0.00
339	1.200	32.20	0.00	0.00	0.00	5.97	11.79	0.00	11.79	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0. 0.00
340	1.100	32.22	0.00	0.00	0.00	5.96	11.74	0.00	11.74	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0. 0.00
341	1.000	32.23	0.00	0.00	0.00	5.94	11.69	0.00	11.69	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0. 0.00
342	0.900	32.25	0.00	0.00	0.00	5.93	11.63	0.00	11.63	0.00	1.60	0.11	0.00	1.72	0.00	24.00	0.00	0. 0.00
343	0.800	32.27	0.00	0.00	0.00	5.91	11.58	0.00	11.58	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0. 0.00
344	0.700	32.28	0.00	0.00	0.00	5.90	11.49	0.00	11.49	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0. 0.00
345	0.600	32.30	0.00	0.00	0.00	5.92	11.20	0.00	11.20	0.00	1.66	0.11	0.00	1.77	0.00	24.00	0.00	0. 0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 17 Corasaw conf. to 120401-C Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
526	UPR RCH	4.91729	32.30	0.00	0.00	0.00	5.92	11.20	0.00	11.20	0.00	1.66	0.11	0.00	0.00	24.00	0.00	0.00
526	TRIB	5.35654	32.30	0.00	0.00	0.00	6.39	6.98	0.00	6.98	0.00	2.59	0.14	0.00	0.00	24.00	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
526	0.60	0.50	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
527	0.50	0.40	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
528	0.40	0.30	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
529	0.30	0.20	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
530	0.20	0.10	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
531	0.10	0.00	10.27383	28.2	0.08327	0.01	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.083
TOT					0.08				74025.60	52800.00					
AVG				0.0833			1.40	88.00			123.38				

CUM 6.50

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY *	NH3 SRCE **	DENIT RATE **	PO4 SRCE **	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
526	0.500	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
527	0.400	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
528	0.300	7.27	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
529	0.200	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
530	0.100	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
531	0.000	7.28	0.85	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.68	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
526	0.500	32.28	0.00	0.00	0.00	6.15	9.10	0.00	9.10	0.00	2.12	0.13	0.00	2.24	0.00	24.00	0.00	0.	0.00
527	0.400	32.27	0.00	0.00	0.00	6.15	9.09	0.00	9.09	0.00	2.12	0.13	0.00	2.24	0.00	24.00	0.00	0.	0.00
528	0.300	32.25	0.00	0.00	0.00	6.14	9.08	0.00	9.08	0.00	2.12	0.13	0.00	2.24	0.00	24.00	0.00	0.	0.00
529	0.200	32.23	0.00	0.00	0.00	6.14	9.07	0.00	9.07	0.00	2.12	0.13	0.00	2.24	0.00	24.00	0.00	0.	0.00
530	0.100	32.22	0.00	0.00	0.00	6.14	9.02	0.00	9.02	0.00	2.10	0.13	0.00	2.23	0.00	24.00	0.00	0.	0.00
531	0.000	32.20	0.00	0.00	0.00	6.13	8.31	0.00	8.31	0.00	1.89	0.12	0.00	2.01	0.00	24.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Bayou Chene Baseline Simulation for Lake Penchant and Bayou Penchant model

TRAVEL TIME = 6.50 DAYS
MAXIMUM EFFLUENT = 28.22 PERCENT
FLOW = 4.91729 TO 17.38058 m³/s
DISPERSION = 0.3000 TO 0.6000 m²/s
VELOCITY = 0.02528 TO 0.15623 m/s
DEPTH = 1.00 TO 1.77 m
WIDTH = 88.00 TO 155.00 m
BOD DECAY = 0.09 TO 0.21 per day
NH3 DECAY = 0.35 TO 0.38 per day
SOD = 3.15 TO 5.68 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.49 TO 1.93 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 = 5.63 TO 7.74 mg/L

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 7 935 to Peoples Canal and L.P Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A #/100mL	COLI	NCM
346	HDWTR	0.03776	31.10	0.00	0.00	0.00	5.00	3.42	0.00	3.42	0.00	0.90	0.10	0.04	0.00	10.00	0.00	0.00

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

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

	km	km	m³/s	m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s		
346	18.00	17.90	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
347	17.90	17.80	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
348	17.80	17.70	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
349	17.70	17.60	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
350	17.60	17.50	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
351	17.50	17.40	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
352	17.40	17.30	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
353	17.30	17.20	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
354	17.20	17.10	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
355	17.10	17.00	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
356	17.00	16.90	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
357	16.90	16.80	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
358	16.80	16.70	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
359	16.70	16.60	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
360	16.60	16.50	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
361	16.50	16.40	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
362	16.40	16.30	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
363	16.30	16.20	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
364	16.20	16.10	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
365	16.10	16.00	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
366	16.00	15.90	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
367	15.90	15.80	0.03776	0.0	0.00061	1.90	1.77	35.00	6188.00		3500.00	61.88	0.00	0.000	0.000	0.001
TOT					41.73			136136.00	77000.00							
AVG				0.0006			1.77	35.00			61.88					
CUM					41.73											

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	SRCE **	NH3 RATE 1/da	NH3 SRCE 1/da	DENIT PROD	PO4 PROD	ALG DECAY	MAC DECAY	COLI DECAY	NCM SETT	NCM
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		

366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	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 #/100mL	MACRO	COLI	NCM
346	17.900	31.48	0.00	0.00	0.00	4.91	2.95	0.00	2.95	0.00	0.86	0.10	0.00	0.96	0.00	10.00	0.00	0.	0.00
347	17.800	31.45	0.00	0.00	0.00	4.90	2.54	0.00	2.54	0.00	0.82	0.10	0.00	0.92	0.00	10.00	0.00	0.	0.00
348	17.700	31.43	0.00	0.00	0.00	4.94	2.19	0.00	2.19	0.00	0.78	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
349	17.600	31.41	0.00	0.00	0.00	4.98	1.89	0.00	1.89	0.00	0.75	0.09	0.00	0.84	0.00	10.00	0.00	0.	0.00
350	17.500	31.39	0.00	0.00	0.00	5.04	1.63	0.00	1.63	0.00	0.71	0.09	0.00	0.80	0.00	10.00	0.00	0.	0.00
351	17.400	31.36	0.00	0.00	0.00	5.09	1.40	0.00	1.40	0.00	0.68	0.08	0.00	0.76	0.00	10.00	0.00	0.	0.00
352	17.300	31.34	0.00	0.00	0.00	5.14	1.21	0.00	1.21	0.00	0.65	0.08	0.00	0.73	0.00	10.00	0.00	0.	0.00
353	17.200	31.32	0.00	0.00	0.00	5.18	1.04	0.00	1.04	0.00	0.62	0.08	0.00	0.70	0.00	10.00	0.00	0.	0.00
354	17.100	31.30	0.00	0.00	0.00	5.22	0.90	0.00	0.90	0.00	0.59	0.07	0.00	0.67	0.00	10.00	0.00	0.	0.00
355	17.000	31.27	0.00	0.00	0.00	5.26	0.78	0.00	0.78	0.00	0.57	0.07	0.00	0.64	0.00	10.00	0.00	0.	0.00
356	16.900	31.25	0.00	0.00	0.00	5.29	0.67	0.00	0.67	0.00	0.54	0.07	0.00	0.61	0.00	10.00	0.00	0.	0.00
357	16.800	31.23	0.00	0.00	0.00	5.32	0.58	0.00	0.58	0.00	0.52	0.06	0.00	0.58	0.00	10.00	0.00	0.	0.00
358	16.700	31.20	0.00	0.00	0.00	5.35	0.50	0.00	0.50	0.00	0.49	0.06	0.00	0.55	0.00	10.00	0.00	0.	0.00
359	16.600	31.18	0.00	0.00	0.00	5.38	0.43	0.00	0.43	0.00	0.47	0.06	0.00	0.53	0.00	10.00	0.00	0.	0.00
360	16.500	31.16	0.00	0.00	0.00	5.40	0.37	0.00	0.37	0.00	0.45	0.06	0.00	0.50	0.00	10.00	0.00	0.	0.00
361	16.400	31.14	0.00	0.00	0.00	5.42	0.32	0.00	0.32	0.00	0.43	0.05	0.00	0.48	0.00	10.00	0.00	0.	0.00
362	16.300	31.11	0.00	0.00	0.00	5.44	0.28	0.00	0.28	0.00	0.41	0.05	0.00	0.46	0.00	10.00	0.00	0.	0.00
363	16.200	31.09	0.00	0.00	0.00	5.46	0.24	0.00	0.24	0.00	0.39	0.05	0.00	0.44	0.00	10.00	0.00	0.	0.00
364	16.100	31.07	0.00	0.00	0.00	5.48	0.21	0.00	0.21	0.00	0.37	0.05	0.00	0.42	0.00	10.00	0.00	0.	0.00
365	16.000	31.05	0.00	0.00	0.00	5.49	0.18	0.00	0.18	0.00	0.36	0.04	0.00	0.40	0.00	10.00	0.00	0.	0.00
366	15.900	31.02	0.00	0.00	0.00	5.51	0.15	0.00	0.15	0.00	0.34	0.04	0.00	0.38	0.00	10.00	0.00	0.	0.00
367	15.800	31.00	0.00	0.00	0.00	5.52	0.13	0.00	0.13	0.00	0.32	0.04	0.00	0.37	0.00	10.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 8 Peoples C. and L.P to N. Outlet Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
368	UPR RCH	0.03776	31.00	0.00	0.00	0.00	5.52	0.13	0.00	0.13	0.00	0.32	0.04	0.00	0.00	10.00	0.00	0.00
EACH	INCR	0.17084	30.00	0.00	0.00	0.00	5.00	9.30	0.00		1.30	0.10	0.04	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
368	15.80	15.70	0.20860	0.0	0.00006	20.90	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
369	15.70	15.60	0.37945	0.0	0.00010	11.49	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
370	15.60	15.50	0.55029	0.0	0.00015	7.92	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
371	15.50	15.40	0.72114	0.0	0.00019	6.05	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
372	15.40	15.30	0.89198	0.0	0.00024	4.89	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
373	15.30	15.20	1.06283	0.0	0.00028	4.10	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
374	15.20	15.10	1.23367	0.0	0.00033	3.53	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
375	15.10	15.00	1.40452	0.0	0.00037	3.10	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
376	15.00	14.90	1.57536	0.0	0.00042	2.77	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
TOT					64.77			3390847.00	1917900.00						

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 AVG                          0.0002          1.77 2131.00                3767.61
 CUM                                   106.49
********************************************** 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  1/da
368  15.700 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
369  15.600 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
370  15.500 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
371  15.400 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
372  15.300 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
373  15.200 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
374  15.100 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
375  15.000 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
376  14.900 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.53  0.05 0.00  0.00  0.00 0.00  0.00 0.60            0.02 0.00  0.10 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  mg/L  µg/L   g/m³  #/100mL
368  15.700 31.00 0.00    0.00    0.00  7.03  2.80  0.00  2.80  0.00  0.74  0.08  0.00  0.82  0.00 10.00  0.00     0.   0.00
369  15.600 31.00 0.00    0.00    0.00  7.03  2.93  0.00  2.93  0.00  0.77  0.08  0.00  0.86  0.00 10.00  0.00     0.   0.00
370  15.500 31.00 0.00    0.00    0.00  7.03  2.96  0.00  2.96  0.00  0.78  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
371  15.400 31.00 0.00    0.00    0.00  7.02  2.97  0.00  2.97  0.00  0.79  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
372  15.300 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
373  15.200 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
374  15.100 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
375  15.000 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
376  14.900 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO.  9    N. Outlet to L. Penchant W. Sid            Baseline Simulation for Lake Penchant and Bayou Penchant model
************************************************************** REACH INPUTS **************************************************************
ELEM  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
NO.             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
377  UPR RCH  1.57536  31.00    0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.00 10.00    0.00    0.00
EACH  INCR    0.27598  30.00    0.00    0.00    0.00  5.00  9.30  0.00              2.80  0.10  0.04  0.00    0.00    0.00
EACH  INCR    -0.12308
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING    FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST      EFF   VELO    TIME                        AREA   AREA    PRISM   VELO          VELO
      km     km      m³/s     m/s    days     m      m      m³      m²     m²      m³     m/s    m²/s    m/s
377  14.90  14.80  1.72827  0.0  0.00099   1.16   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
378  14.80  14.70  1.88118  0.0  0.00108   1.07   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
379  14.70  14.60  2.03408  0.0  0.00117   0.99   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
380  14.60  14.50  2.18699  0.0  0.00126   0.92   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
381  14.50  14.40  2.33990  0.0  0.00135   0.86   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
382  14.40  14.30  2.49281  0.0  0.00143   0.81   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.001
383  14.30  14.20  2.64571  0.0  0.00152   0.76   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.002
384  14.20  14.10  2.79862  0.0  0.00161   0.72   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.002
385  14.10  14.00  2.95153  0.0  0.00170   0.68   1.77  983.00 173794.39  98300.00 1737.94    0.00  0.000    0.000  0.002
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386	14.00	13.90	3.10444	0.0	0.00179	0.65	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002							
387	13.90	13.80	3.25734	0.0	0.00187	0.62	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002							
388	13.80	13.70	3.41025	0.0	0.00196	0.59	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002							
389	13.70	13.60	3.56316	0.0	0.00205	0.56	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002							
TOT					10.39			2259327.00	1277900.00													
AVG				0.0014			1.77	983.00			1737.94											
CUM					116.88																	

********** 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	
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	0.00	0.00	0.00			0.00	0.00	0.00

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

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

ELEM NO.	ENDING DIST	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	TOTN mg/L	PHOS µg/L	CHL A g/m^3	MACRO	COLI #/100mL	NCM
377	14.800	31.04	0.00	0.00	0.00	6.26	3.60	0.00	3.60	0.00	1.06	0.09	0.00	1.16	0.00	11.15	0.00	0.	0.00
378	14.700	31.08	0.00	0.00	0.00	5.93	4.05	0.00	4.05	0.00	1.27	0.10	0.00	1.37	0.00	12.31	0.00	0.	0.00
379	14.600	31.12	0.00	0.00	0.00	5.79	4.38	0.00	4.38	0.00	1.43	0.11	0.00	1.54	0.00	13.46	0.00	0.	0.00
380	14.500	31.15	0.00	0.00	0.00	5.76	4.63	0.00	4.63	0.00	1.56	0.12	0.00	1.68	0.00	14.62	0.00	0.	0.00
381	14.400	31.19	0.00	0.00	0.00	5.77	4.82	0.00	4.82	0.00	1.67	0.13	0.00	1.80	0.00	15.77	0.00	0.	0.00
382	14.300	31.23	0.00	0.00	0.00	5.82	4.98	0.00	4.98	0.00	1.75	0.13	0.00	1.89	0.00	16.92	0.00	0.	0.00
383	14.200	31.27	0.00	0.00	0.00	5.88	5.10	0.00	5.10	0.00	1.82	0.14	0.00	1.96	0.00	18.08	0.00	0.	0.00
384	14.100	31.31	0.00	0.00	0.00	5.96	5.19	0.00	5.19	0.00	1.88	0.15	0.00	2.03	0.00	19.23	0.00	0.	0.00
385	14.000	31.35	0.00	0.00	0.00	6.04	5.27	0.00	5.27	0.00	1.93	0.15	0.00	2.08	0.00	20.38	0.00	0.	0.00
386	13.900	31.38	0.00	0.00	0.00	6.13	5.34	0.00	5.34	0.00	1.98	0.15	0.00	2.13	0.00	21.54	0.00	0.	0.00
387	13.800	31.42	0.00	0.00	0.00	6.22	5.39	0.00	5.39	0.00	2.01	0.16	0.00	2.17	0.00	22.69	0.00	0.	0.00
388	13.700	31.46	0.00	0.00	0.00	6.31	5.43	0.00	5.43	0.00	2.05	0.16	0.00	2.21	0.00	23.85	0.00	0.	0.00
389	13.600	31.50	0.00	0.00	0.00	6.41	5.47	0.00	5.47	0.00	2.07	0.16	0.00	2.24	0.00	25.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 10 L. P. W. Side to L. P W. Outlet Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
390	UPR RCH	3.56316	31.50	0.00	0.00	0.00	6.41	5.47	0.00	5.47	0.00	2.07	0.16	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.05556	30.00	0.00	0.00	0.00	5.00	10.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.05556																

********** 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	TIDAL VELO m²/s	DISPRSN m/s	MEAN
390	13.60	13.50	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
391	13.50	13.40	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
392	13.40	13.30	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
393	13.30	13.20	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
394	13.20	13.10	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
395	13.10	13.00	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
396	13.00	12.90	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
397	12.90	12.80	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
398	12.80	12.70	3.56316	0.0	0.01362	0.08	1.77	148.00	26166.40	14800.00	261.66	0.00	0.000	0.000	0.014	
TOT					0.76				235497.62	133200.00						
AVG				0.0136			1.77	148.00			261.66					
CUM					117.65											

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SETT 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
390	13.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00		
391	13.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00		
392	13.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00		
393	13.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00		
394	13.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00		
395	13.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00		
396	12.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00		
397	12.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00		
398	12.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	2.80			0.02	0.00	0.15	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
390	13.500	31.50	0.00	0.00	0.00	6.29	5.50	0.00	5.50	0.00	2.06	0.16	0.00	2.22	0.00	26.44	0.00	0.	0.00
391	13.400	31.50	0.00	0.00	0.00	6.18	5.53	0.00	5.53	0.00	2.04	0.16	0.00	2.20	0.00	27.89	0.00	0.	0.00
392	13.300	31.50	0.00	0.00	0.00	6.09	5.56	0.00	5.56	0.00	2.03	0.16	0.00	2.19	0.00	29.33	0.00	0.	0.00
393	13.200	31.50	0.00	0.00	0.00	6.01	5.59	0.00	5.59	0.00	2.01	0.16	0.00	2.17	0.00	30.78	0.00	0.	0.00
394	13.100	31.50	0.00	0.00	0.00	5.95	5.61	0.00	5.61	0.00	2.00	0.16	0.00	2.15	0.00	32.22	0.00	0.	0.00
395	13.000	31.50	0.00	0.00	0.00	5.90	5.64	0.00	5.64	0.00	1.98	0.15	0.00	2.14	0.00	33.67	0.00	0.	0.00
396	12.900	31.50	0.00	0.00	0.00	5.86	5.67	0.00	5.67	0.00	1.97	0.15	0.00	2.12	0.00	35.11	0.00	0.	0.00
397	12.800	31.50	0.00	0.00	0.00	5.84	5.69	0.00	5.69	0.00	1.95	0.15	0.00	2.10	0.00	36.56	0.00	0.	0.00
398	12.700	31.50	0.00	0.00	0.00	5.83	5.72	0.00	5.72	0.00	1.94	0.15	0.00	2.09	0.00	38.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 11 L. P W. Outlet to Superior Cana Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
399	UPR RCH	3.56316	31.50	0.00	0.00	0.00	5.83	5.72	0.00	5.72	0.00	1.94	0.15	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.02632	30.00	0.00	0.00	0.00	5.00	10.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	

EACH INCR -0.02632

********** 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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
399	12.70	12.60	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
400	12.60	12.50	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
401	12.50	12.40	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
402	12.40	12.30	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
403	12.30	12.20	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
404	12.20	12.10	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
405	12.10	12.00	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
406	12.00	11.90	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
407	11.90	11.80	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
408	11.80	11.70	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
409	11.70	11.60	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
410	11.60	11.50	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
411	11.50	11.40	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
412	11.40	11.30	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
413	11.30	11.20	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
414	11.20	11.10	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
415	11.10	11.00	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
416	11.00	10.90	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
417	10.90	10.80	3.56316	0.0	0.03304	0.04	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300	0.033
TOT					0.67			204911.17	115900.00						
AVG			0.0330				1.77	61.00			107.85				
CUM					118.31										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE 1/da	NH3 SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
414	11.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
415	11.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
416	10.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
417	10.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	

AVG 20 DEG C RATE 0.40 0.05 0.00 0.00 0.00 0.00 0.00 2.80 0.02 0.00 0.15 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 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	TOTN µg/L	PHOS g/m³	CHL A #/100mL	MACRO	COLI	NCM
399	12.600	31.50	0.00	0.00	0.00	5.82	5.74	0.00	5.74	0.00	1.93	0.15	0.00	2.08	0.00	38.00	0.00	0.	0.00
400	12.500	31.50	0.00	0.00	0.00	5.81	5.75	0.00	5.75	0.00	1.93	0.15	0.00	2.08	0.00	38.00	0.00	0.	0.00
401	12.400	31.50	0.00	0.00	0.00	5.81	5.76	0.00	5.76	0.00	1.92	0.15	0.00	2.07	0.00	38.00	0.00	0.	0.00
402	12.300	31.50	0.00	0.00	0.00	5.80	5.78	0.00	5.78	0.00	1.91	0.15	0.00	2.06	0.00	38.00	0.00	0.	0.00
403	12.200	31.50	0.00	0.00	0.00	5.80	5.79	0.00	5.79	0.00	1.91	0.15	0.00	2.06	0.00	38.00	0.00	0.	0.00
404	12.100	31.50	0.00	0.00	0.00	5.79	5.81	0.00	5.81	0.00	1.90	0.15	0.00	2.05	0.00	38.00	0.00	0.	0.00
405	12.000	31.50	0.00	0.00	0.00	5.78	5.82	0.00	5.82	0.00	1.89	0.15	0.00	2.04	0.00	38.00	0.00	0.	0.00
406	11.900	31.50	0.00	0.00	0.00	5.78	5.83	0.00	5.83	0.00	1.89	0.15	0.00	2.04	0.00	38.00	0.00	0.	0.00
407	11.800	31.50	0.00	0.00	0.00	5.77	5.85	0.00	5.85	0.00	1.88	0.15	0.00	2.03	0.00	38.00	0.00	0.	0.00
408	11.700	31.50	0.00	0.00	0.00	5.77	5.86	0.00	5.86	0.00	1.88	0.15	0.00	2.02	0.00	38.00	0.00	0.	0.00
409	11.600	31.50	0.00	0.00	0.00	5.76	5.87	0.00	5.87	0.00	1.87	0.15	0.00	2.02	0.00	38.00	0.00	0.	0.00
410	11.500	31.50	0.00	0.00	0.00	5.76	5.89	0.00	5.89	0.00	1.86	0.14	0.00	2.01	0.00	38.00	0.00	0.	0.00
411	11.400	31.50	0.00	0.00	0.00	5.75	5.90	0.00	5.90	0.00	1.86	0.14	0.00	2.00	0.00	38.00	0.00	0.	0.00
412	11.300	31.50	0.00	0.00	0.00	5.75	5.91	0.00	5.91	0.00	1.85	0.14	0.00	2.00	0.00	38.00	0.00	0.	0.00
413	11.200	31.50	0.00	0.00	0.00	5.74	5.92	0.00	5.92	0.00	1.85	0.14	0.00	1.99	0.00	38.00	0.00	0.	0.00
414	11.100	31.50	0.00	0.00	0.00	5.74	5.94	0.00	5.94	0.00	1.84	0.14	0.00	1.99	0.00	38.00	0.00	0.	0.00
415	11.000	31.50	0.00	0.00	0.00	5.74	5.95	0.00	5.95	0.00	1.84	0.14	0.00	1.98	0.00	38.00	0.00	0.	0.00
416	10.900	31.50	0.00	0.00	0.00	5.73	5.96	0.00	5.96	0.00	1.83	0.14	0.00	1.97	0.00	38.00	0.00	0.	0.00
417	10.800	31.50	0.00	0.00	0.00	5.73	5.97	0.00	5.97	0.00	1.83	0.14	0.00	1.97	0.00	38.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 12 Superior Canal to un canal 1 Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A #/100mL	COLI	NCM
418	UPR RCH	3.56316	31.50	0.00	0.00	0.00	5.73	5.97	0.00	5.97	0.00	1.83	0.14	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.03846	30.00	0.00	0.00	0.00	5.00	10.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.03846																

********** 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
418	10.80	10.70	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
419	10.70	10.60	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
420	10.60	10.50	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
421	10.50	10.40	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
422	10.40	10.30	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
423	10.30	10.20	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
424	10.20	10.10	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
425	10.10	10.00	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
426	10.00	9.90	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
427	9.90	9.80	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
428	9.80	9.70	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
429	9.70	9.60	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
430	9.60	9.50	3.56316	0.0	0.03530	0.03	1.40	72.00	10094.40	7200.00	100.94	0.00	0.000	0.200	0.035
TOT					0.43				131227.19	93600.00					

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 AVG                          0.0353          1.40  72.00                 100.94
 CUM                                  118.74
********************************************** 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  1/da
418  10.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
419  10.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
420  10.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
421  10.400 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
422  10.300 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
423  10.200 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
424  10.100 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
425  10.000 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
426   9.900 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
427   9.800 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
428   9.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
429   9.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
430   9.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.50  0.05 0.00  0.00  0.00 0.00  0.00 2.80            0.02 0.00  0.15 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
418  10.700 31.50 0.00    0.00    0.00  5.70  6.00  0.00  6.00  0.00  1.82  0.14  0.00  1.96  0.00 38.00  0.00     0.  0.00
419  10.600 31.50 0.00    0.00    0.00  5.67  6.03  0.00  6.03  0.00  1.81  0.14  0.00  1.95  0.00 38.00  0.00     0.  0.00
420  10.500 31.50 0.00    0.00    0.00  5.65  6.05  0.00  6.05  0.00  1.80  0.14  0.00  1.94  0.00 38.00  0.00     0.  0.00
421  10.400 31.50 0.00    0.00    0.00  5.62  6.08  0.00  6.08  0.00  1.80  0.14  0.00  1.94  0.00 38.00  0.00     0.  0.00
422  10.300 31.50 0.00    0.00    0.00  5.60  6.10  0.00  6.10  0.00  1.79  0.14  0.00  1.93  0.00 38.00  0.00     0.  0.00
423  10.200 31.50 0.00    0.00    0.00  5.58  6.13  0.00  6.13  0.00  1.78  0.14  0.00  1.92  0.00 38.00  0.00     0.  0.00
424  10.100 31.50 0.00    0.00    0.00  5.55  6.15  0.00  6.15  0.00  1.78  0.14  0.00  1.92  0.00 38.00  0.00     0.  0.00
425  10.000 31.50 0.00    0.00    0.00  5.53  6.17  0.00  6.17  0.00  1.77  0.14  0.00  1.91  0.00 38.00  0.00     0.  0.00
426   9.900 31.50 0.00    0.00    0.00  5.51  6.20  0.00  6.20  0.00  1.76  0.14  0.00  1.90  0.00 38.00  0.00     0.  0.00
427   9.800 31.50 0.00    0.00    0.00  5.49  6.22  0.00  6.22  0.00  1.76  0.14  0.00  1.89  0.00 38.00  0.00     0.  0.00
428   9.700 31.50 0.00    0.00    0.00  5.47  6.25  0.00  6.25  0.00  1.75  0.14  0.00  1.89  0.00 38.00  0.00     0.  0.00
429   9.600 31.50 0.00    0.00    0.00  5.45  6.27  0.00  6.27  0.00  1.75  0.14  0.00  1.88  0.00 38.00  0.00     0.  0.00
430   9.500 31.50 0.00    0.00    0.00  5.42  6.36  0.00  6.36  0.00  1.78  0.13  0.00  1.92  0.00 38.00  0.00     0.  0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 13    unnamed canal to Brady C/Weir 2            Baseline Simulation for Lake Penchant and Bayou Penchant model
********************************************************** REACH INPUTS ************************************************************
ELEM  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
NO.             deg C   ppt             mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
431  UPR RCH  3.56316  31.50    0.00    0.00    0.00  5.42  6.36  0.00  6.36  0.00  1.78  0.13  0.00  0.00 38.00    0.00    0.00
431  WSTLD    3.28477  30.00    0.00    0.00    0.00  5.00 10.00  0.00 10.00  0.00  4.00  0.05  0.00  0.00  0.00    0.00    0.00
****************************************************** HYDRAULIC PARAMETER VALUES ******************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST       EFF   VELO    TIME                         AREA   AREA    PRISM   VELO           VELO
      km     km       m³/s     m/s   days     m      m      m³      m²     m²      m³     m/s    m²/s    m/s
431   9.50   9.40   6.84793  48.0  0.06784   0.02   1.40  72.00  10094.40  7200.00  100.94    0.00  0.000   0.100  0.068
432   9.40   9.30   6.84793  48.0  0.06784   0.02   1.40  72.00  10094.40  7200.00  100.94    0.00  0.000   0.100  0.068
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 TOT                                0.03            20188.80   14400.00
 AVG                          0.0678         1.40   72.00                100.94
 CUM                                118.77
********************************************** 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  1/da
431   9.400 7.37   0.76  0.08 0.00  0.00  0.00 0.00  0.00 3.09 3.09 3.09  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
432   9.300 7.37   0.76  0.08 0.00  0.00  0.00 0.00  0.00 3.09 3.09 3.09  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.62  0.05 0.00  0.00  0.00 0.00  0.00 1.50            0.02 0.00  0.15 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
431   9.400 31.50 0.00    0.00    0.00  5.26  8.06  0.00  8.06  0.00  2.82  0.09  0.00  2.92  0.00 38.00   0.00      0.   0.00
432   9.300 31.50 0.00    0.00    0.00  5.29  8.05  0.00  8.05  0.00  2.82  0.10  0.00  2.92  0.00 38.00   0.00      0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 14    Brady C/Weir 2 to Km#                    Baseline Simulation for Lake Penchant and Bayou Penchant model
********************************************************** REACH INPUTS **********************************************************
ELEM  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
NO.             deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
433  UPR RCH  6.84793  31.50    0.00    0.00    0.00  5.29  8.05  0.00  8.05  0.00  2.82  0.10  0.00  0.00 38.00    0.00    0.00
EACH  INCR    0.00212  30.00    0.00    0.00    0.00  5.00 10.00  0.00              0.85  0.10  0.04  0.00    0.00    0.00
433  WSTLD  -1.74630  31.57    0.00    0.00    0.00  5.31  8.03  0.00  8.03  0.00  2.82  0.10  0.00  0.00 38.00    0.00    0.00
********************************************************* HYDRAULIC PARAMETER VALUES *********************************************************
ELEM  BEGIN ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST  DIST        EFF   VELO    TIME                          AREA   AREA   PRISM   VELO          VELO
      km    km        m³/s      m/s   days     m     m     m³      m²     m²     m³    m/s   m²/s   m/s
433   9.30  9.20   5.10375  48.0  0.05200   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
434   9.20  9.10   5.10588  47.9  0.05203   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
435   9.10  9.00   5.10800  47.9  0.05205   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
436   9.00  8.90   5.11013  47.9  0.05207   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
437   8.90  8.80   5.11225  47.9  0.05209   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
438   8.80  8.70   5.11438  47.9  0.05211   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
439   8.70  8.60   5.11650  47.8  0.05213   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
440   8.60  8.50   5.11863  47.8  0.05216   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
441   8.50  8.40   5.12075  47.8  0.05218   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
442   8.40  8.30   5.12288  47.8  0.05220   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
443   8.30  8.20   5.12500  47.8  0.05222   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
444   8.20  8.10   5.12713  47.7  0.05224   0.02  1.40  70.00  9814.00  7000.00  98.14   0.00  0.000   0.100  0.052
 TOT                                0.27            117768.00  84000.00
 AVG                          0.0521         1.40   70.00                98.14
 CUM                                119.04
********************************************** 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  1/da
433   9.200 7.36   0.67  0.09 0.00  0.00  0.00 0.00  0.00 3.11 3.11 3.11  0.03 0.00  0.35 0.00  0.00 0.00 3.23 0.00  0.00  0.00  0.00
434   9.100 7.35   0.67  0.09 0.00  0.00  0.00 0.00  0.00 3.12 3.12 3.12  0.03 0.00  0.35 0.00  0.00 0.00 3.24 0.00  0.00  0.00  0.00
435   9.000 7.34   0.67  0.09 0.00  0.00  0.00 0.00  0.00 3.13 3.13 3.13  0.03 0.00  0.35 0.00  0.00 0.00 3.25 0.00  0.00  0.00  0.00
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436	8.900	7.33	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.36	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
437	8.800	7.33	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.36	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
438	8.700	7.32	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.36	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
439	8.600	7.31	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.36	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
440	8.500	7.30	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
441	8.400	7.29	0.67	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
442	8.300	7.28	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
443	8.200	7.28	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
444	8.100	7.27	0.68	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.54 0.05 0.00 0.00 0.00 0.00 0.00 1.50 0.02 0.00 0.15 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 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	TOTN µg/L	PHOS g/m³	CHL A #/100mL	MACRO	COLI	NCM
433	9.200	31.57	0.00	0.00	0.00	5.31	8.03	0.00	8.03	0.00	2.82	0.10	0.00	2.92	0.00	38.00	0.00	0.	0.00
434	9.100	31.63	0.00	0.00	0.00	5.34	8.02	0.00	8.02	0.00	2.82	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
435	9.000	31.70	0.00	0.00	0.00	5.38	8.01	0.00	8.01	0.00	2.81	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
436	8.900	31.77	0.00	0.00	0.00	5.41	7.99	0.00	7.99	0.00	2.81	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
437	8.800	31.83	0.00	0.00	0.00	5.44	7.98	0.00	7.98	0.00	2.81	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
438	8.700	31.90	0.00	0.00	0.00	5.47	7.96	0.00	7.96	0.00	2.81	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
439	8.600	31.97	0.00	0.00	0.00	5.50	7.95	0.00	7.95	0.00	2.81	0.10	0.00	2.91	0.00	38.00	0.00	0.	0.00
440	8.500	32.03	0.00	0.00	0.00	5.53	7.93	0.00	7.93	0.00	2.80	0.10	0.00	2.90	0.00	38.00	0.00	0.	0.00
441	8.400	32.10	0.00	0.00	0.00	5.56	7.92	0.00	7.92	0.00	2.80	0.10	0.00	2.90	0.00	38.00	0.00	0.	0.00
442	8.300	32.17	0.00	0.00	0.00	5.59	7.90	0.00	7.90	0.00	2.80	0.10	0.00	2.90	0.00	38.00	0.00	0.	0.00
443	8.200	32.23	0.00	0.00	0.00	5.62	7.89	0.00	7.89	0.00	2.80	0.10	0.00	2.90	0.00	38.00	0.00	0.	0.00
444	8.100	32.30	0.00	0.00	0.00	5.65	7.88	0.00	7.88	0.00	2.79	0.10	0.00	2.90	0.00	38.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 15 Km# to Pipeline Canal Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A #/100mL	COLI	NCM
445	UPR RCH	5.12713	32.30	0.00	0.00	0.00	5.65	7.88	0.00	7.88	0.00	2.79	0.10	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.00279	30.00	0.00	0.00	0.00	5.00	10.00	0.00		0.85	0.10	0.04	0.00	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
445	8.10	8.00	5.12992	47.7	0.05629	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
446	8.00	7.90	5.13271	47.7	0.05632	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
447	7.90	7.80	5.13551	47.7	0.05635	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
448	7.80	7.70	5.13830	47.6	0.05638	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
449	7.70	7.60	5.14109	47.6	0.05641	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
450	7.60	7.50	5.14389	47.6	0.05645	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
451	7.50	7.40	5.14668	47.6	0.05648	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.056
452	7.40	7.30	5.14947	47.5	0.05651	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
453	7.30	7.20	5.15227	47.5	0.05654	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
454	7.20	7.10	5.15506	47.5	0.05657	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
455	7.10	7.00	5.15785	47.4	0.05660	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
456	7.00	6.90	5.16065	47.4	0.05663	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
457	6.90	6.80	5.16344	47.4	0.05666	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057

458	6.80	6.70	5.16623	47.4	0.05669	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
459	6.70	6.60	5.16903	47.3	0.05672	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
460	6.60	6.50	5.17182	47.3	0.05675	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
461	6.50	6.40	5.17461	47.3	0.05678	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
462	6.40	6.30	5.17741	47.3	0.05681	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
463	6.30	6.20	5.18020	47.2	0.05684	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
464	6.20	6.10	5.18299	47.2	0.05687	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
465	6.10	6.00	5.18579	47.2	0.05691	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
466	6.00	5.90	5.18858	47.2	0.05694	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
467	5.90	5.80	5.19137	47.1	0.05697	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
468	5.80	5.70	5.19417	47.1	0.05700	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
469	5.70	5.60	5.19696	47.1	0.05703	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
470	5.60	5.50	5.19975	47.1	0.05706	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
471	5.50	5.40	5.20255	47.0	0.05709	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
472	5.40	5.30	5.20534	47.0	0.05712	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
473	5.30	5.20	5.20813	47.0	0.05715	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
474	5.20	5.10	5.21093	47.0	0.05718	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
475	5.10	5.00	5.21372	46.9	0.05721	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
476	5.00	4.90	5.21651	46.9	0.05724	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
477	4.90	4.80	5.21931	46.9	0.05727	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
478	4.80	4.70	5.22210	46.9	0.05730	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
479	4.70	4.60	5.22489	46.8	0.05733	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
480	4.60	4.50	5.22769	46.8	0.05737	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
481	4.50	4.40	5.23048	46.8	0.05740	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
482	4.40	4.30	5.23327	46.8	0.05743	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
483	4.30	4.20	5.23607	46.7	0.05746	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
484	4.20	4.10	5.23886	46.7	0.05749	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.057
485	4.10	4.00	5.24165	46.7	0.05752	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
486	4.00	3.90	5.24445	46.7	0.05755	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
487	3.90	3.80	5.24724	46.6	0.05758	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
488	3.80	3.70	5.25003	46.6	0.05761	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
489	3.70	3.60	5.25283	46.6	0.05764	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
490	3.60	3.50	5.25562	46.6	0.05767	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
491	3.50	3.40	5.25841	46.5	0.05770	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
492	3.40	3.30	5.26121	46.5	0.05773	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
493	3.30	3.20	5.26400	46.5	0.05776	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
494	3.20	3.10	5.26679	46.5	0.05779	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
495	3.10	3.00	5.26959	46.4	0.05782	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
496	3.00	2.90	5.27238	46.4	0.05786	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
497	2.90	2.80	5.27517	46.4	0.05789	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
498	2.80	2.70	5.27797	46.4	0.05792	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
499	2.70	2.60	5.28076	46.3	0.05795	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
500	2.60	2.50	5.28355	46.3	0.05798	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
501	2.50	2.40	5.28635	46.3	0.05801	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
502	2.40	2.30	5.28914	46.3	0.05804	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
503	2.30	2.20	5.29193	46.2	0.05807	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
504	2.20	2.10	5.29473	46.2	0.05810	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
505	2.10	2.00	5.29752	46.2	0.05813	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
506	2.00	1.90	5.30031	46.2	0.05816	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
507	1.90	1.80	5.30311	46.1	0.05819	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058

508	1.80	1.70	5.30590	46.1	0.05822	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
509	1.70	1.60	5.30869	46.1	0.05825	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
510	1.60	1.50	5.31149	46.1	0.05828	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
511	1.50	1.40	5.31428	46.1	0.05832	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
512	1.40	1.30	5.31707	46.0	0.05835	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
513	1.30	1.20	5.31987	46.0	0.05838	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
514	1.20	1.10	5.32266	46.0	0.05841	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
515	1.10	1.00	5.32545	46.0	0.05844	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
516	1.00	0.90	5.32825	45.9	0.05847	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
517	0.90	0.80	5.33104	45.9	0.05850	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.058
TOT					1.47			665249.00	474500.00						
AVG				0.0574			1.40	65.00			91.13				
CUM					120.51										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN DECAY **	SRCE 1/da	NH3 RATE 1/da	NH3 SRCE 1/da	DENIT PROD	PO4 PROD	ALG DECAY	MAC DECAY	COLI DECAY	NCM SETT	NCM
445	8.000	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00		
446	7.900	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00		
447	7.800	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00		
448	7.700	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00		
449	7.600	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00		
450	7.500	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00		
451	7.400	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00		
452	7.300	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00		
453	7.200	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00		
454	7.100	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00		
455	7.000	7.27	0.70	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00		
456	6.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00		
457	6.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00		
458	6.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00		
459	6.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00		
460	6.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00		
461	6.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00		
462	6.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00		
463	6.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00		
464	6.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00		
465	6.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00		
466	5.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00		
467	5.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00		
468	5.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00		
469	5.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00		
470	5.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00		
471	5.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00		
472	5.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00		
473	5.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00		
474	5.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00		
475	5.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00		
476	4.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00		
477	4.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00		

478	4.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.71	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00
516	0.900	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.50		0.02	0.00	0.15	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
445	8.000	32.30	0.00	0.00	0.00	5.67	7.86	0.00	7.86	0.00	2.79	0.11	0.00	2.90	0.00	37.89	0.00	0.	0.00
446	7.900	32.30	0.00	0.00	0.00	5.70	7.85	0.00	7.85	0.00	2.79	0.11	0.00	2.89	0.00	37.78	0.00	0.	0.00
447	7.800	32.30	0.00	0.00	0.00	5.72	7.84	0.00	7.84	0.00	2.79	0.11	0.00	2.89	0.00	37.67	0.00	0.	0.00
448	7.700	32.30	0.00	0.00	0.00	5.75	7.82	0.00	7.82	0.00	2.78	0.11	0.00	2.89	0.00	37.56	0.00	0.	0.00
449	7.600	32.30	0.00	0.00	0.00	5.77	7.81	0.00	7.81	0.00	2.78	0.11	0.00	2.89	0.00	37.45	0.00	0.	0.00

450	7.500	32.30	0.00	0.00	0.00	5.79	7.80	0.00	7.80	0.00	2.78	0.11	0.00	2.89	0.00	37.34	0.00	0.	0.00
451	7.400	32.30	0.00	0.00	0.00	5.82	7.78	0.00	7.78	0.00	2.78	0.11	0.00	2.88	0.00	37.23	0.00	0.	0.00
452	7.300	32.30	0.00	0.00	0.00	5.84	7.77	0.00	7.77	0.00	2.77	0.11	0.00	2.88	0.00	37.12	0.00	0.	0.00
453	7.200	32.30	0.00	0.00	0.00	5.86	7.76	0.00	7.76	0.00	2.77	0.11	0.00	2.88	0.00	37.01	0.00	0.	0.00
454	7.100	32.30	0.00	0.00	0.00	5.88	7.75	0.00	7.75	0.00	2.77	0.11	0.00	2.88	0.00	36.90	0.00	0.	0.00
455	7.000	32.30	0.00	0.00	0.00	5.90	7.73	0.00	7.73	0.00	2.77	0.11	0.00	2.88	0.00	36.79	0.00	0.	0.00
456	6.900	32.30	0.00	0.00	0.00	5.92	7.72	0.00	7.72	0.00	2.76	0.11	0.00	2.88	0.00	36.68	0.00	0.	0.00
457	6.800	32.30	0.00	0.00	0.00	5.94	7.71	0.00	7.71	0.00	2.76	0.11	0.00	2.87	0.00	36.58	0.00	0.	0.00
458	6.700	32.30	0.00	0.00	0.00	5.96	7.70	0.00	7.70	0.00	2.76	0.11	0.00	2.87	0.00	36.47	0.00	0.	0.00
459	6.600	32.30	0.00	0.00	0.00	5.98	7.68	0.00	7.68	0.00	2.76	0.11	0.00	2.87	0.00	36.36	0.00	0.	0.00
460	6.500	32.30	0.00	0.00	0.00	5.99	7.67	0.00	7.67	0.00	2.75	0.11	0.00	2.87	0.00	36.25	0.00	0.	0.00
461	6.400	32.30	0.00	0.00	0.00	6.01	7.66	0.00	7.66	0.00	2.75	0.11	0.00	2.87	0.00	36.14	0.00	0.	0.00
462	6.300	32.30	0.00	0.00	0.00	6.03	7.65	0.00	7.65	0.00	2.75	0.12	0.00	2.86	0.00	36.03	0.00	0.	0.00
463	6.200	32.30	0.00	0.00	0.00	6.05	7.63	0.00	7.63	0.00	2.75	0.12	0.00	2.86	0.00	35.92	0.00	0.	0.00
464	6.100	32.30	0.00	0.00	0.00	6.06	7.62	0.00	7.62	0.00	2.74	0.12	0.00	2.86	0.00	35.81	0.00	0.	0.00
465	6.000	32.30	0.00	0.00	0.00	6.08	7.61	0.00	7.61	0.00	2.74	0.12	0.00	2.86	0.00	35.70	0.00	0.	0.00
466	5.900	32.30	0.00	0.00	0.00	6.09	7.60	0.00	7.60	0.00	2.74	0.12	0.00	2.86	0.00	35.59	0.00	0.	0.00
467	5.800	32.30	0.00	0.00	0.00	6.11	7.58	0.00	7.58	0.00	2.74	0.12	0.00	2.85	0.00	35.48	0.00	0.	0.00
468	5.700	32.30	0.00	0.00	0.00	6.12	7.57	0.00	7.57	0.00	2.73	0.12	0.00	2.85	0.00	35.37	0.00	0.	0.00
469	5.600	32.30	0.00	0.00	0.00	6.14	7.56	0.00	7.56	0.00	2.73	0.12	0.00	2.85	0.00	35.26	0.00	0.	0.00
470	5.500	32.30	0.00	0.00	0.00	6.15	7.55	0.00	7.55	0.00	2.73	0.12	0.00	2.85	0.00	35.15	0.00	0.	0.00
471	5.400	32.30	0.00	0.00	0.00	6.16	7.54	0.00	7.54	0.00	2.73	0.12	0.00	2.85	0.00	35.04	0.00	0.	0.00
472	5.300	32.30	0.00	0.00	0.00	6.18	7.52	0.00	7.52	0.00	2.72	0.12	0.00	2.84	0.00	34.93	0.00	0.	0.00
473	5.200	32.30	0.00	0.00	0.00	6.19	7.51	0.00	7.51	0.00	2.72	0.12	0.00	2.84	0.00	34.82	0.00	0.	0.00
474	5.100	32.30	0.00	0.00	0.00	6.20	7.50	0.00	7.50	0.00	2.72	0.12	0.00	2.84	0.00	34.71	0.00	0.	0.00
475	5.000	32.30	0.00	0.00	0.00	6.21	7.49	0.00	7.49	0.00	2.72	0.12	0.00	2.84	0.00	34.60	0.00	0.	0.00
476	4.900	32.30	0.00	0.00	0.00	6.22	7.48	0.00	7.48	0.00	2.71	0.12	0.00	2.84	0.00	34.49	0.00	0.	0.00
477	4.800	32.30	0.00	0.00	0.00	6.23	7.46	0.00	7.46	0.00	2.71	0.12	0.00	2.83	0.00	34.38	0.00	0.	0.00
478	4.700	32.30	0.00	0.00	0.00	6.24	7.45	0.00	7.45	0.00	2.71	0.12	0.00	2.83	0.00	34.27	0.00	0.	0.00
479	4.600	32.30	0.00	0.00	0.00	6.26	7.44	0.00	7.44	0.00	2.71	0.12	0.00	2.83	0.00	34.16	0.00	0.	0.00
480	4.500	32.30	0.00	0.00	0.00	6.27	7.43	0.00	7.43	0.00	2.70	0.12	0.00	2.83	0.00	34.05	0.00	0.	0.00
481	4.400	32.30	0.00	0.00	0.00	6.27	7.42	0.00	7.42	0.00	2.70	0.12	0.00	2.83	0.00	33.95	0.00	0.	0.00
482	4.300	32.30	0.00	0.00	0.00	6.28	7.40	0.00	7.40	0.00	2.70	0.12	0.00	2.82	0.00	33.84	0.00	0.	0.00
483	4.200	32.30	0.00	0.00	0.00	6.29	7.39	0.00	7.39	0.00	2.70	0.12	0.00	2.82	0.00	33.73	0.00	0.	0.00
484	4.100	32.30	0.00	0.00	0.00	6.30	7.38	0.00	7.38	0.00	2.70	0.13	0.00	2.82	0.00	33.62	0.00	0.	0.00
485	4.000	32.30	0.00	0.00	0.00	6.31	7.37	0.00	7.37	0.00	2.69	0.13	0.00	2.82	0.00	33.51	0.00	0.	0.00
486	3.900	32.30	0.00	0.00	0.00	6.32	7.36	0.00	7.36	0.00	2.69	0.13	0.00	2.82	0.00	33.40	0.00	0.	0.00
487	3.800	32.30	0.00	0.00	0.00	6.33	7.35	0.00	7.35	0.00	2.69	0.13	0.00	2.81	0.00	33.29	0.00	0.	0.00
488	3.700	32.30	0.00	0.00	0.00	6.33	7.33	0.00	7.33	0.00	2.69	0.13	0.00	2.81	0.00	33.18	0.00	0.	0.00
489	3.600	32.30	0.00	0.00	0.00	6.34	7.32	0.00	7.32	0.00	2.68	0.13	0.00	2.81	0.00	33.07	0.00	0.	0.00
490	3.500	32.30	0.00	0.00	0.00	6.35	7.31	0.00	7.31	0.00	2.68	0.13	0.00	2.81	0.00	32.96	0.00	0.	0.00
491	3.400	32.30	0.00	0.00	0.00	6.35	7.30	0.00	7.30	0.00	2.68	0.13	0.00	2.81	0.00	32.85	0.00	0.	0.00
492	3.300	32.30	0.00	0.00	0.00	6.36	7.29	0.00	7.29	0.00	2.68	0.13	0.00	2.80	0.00	32.74	0.00	0.	0.00
493	3.200	32.30	0.00	0.00	0.00	6.37	7.28	0.00	7.28	0.00	2.67	0.13	0.00	2.80	0.00	32.63	0.00	0.	0.00
494	3.100	32.30	0.00	0.00	0.00	6.37	7.27	0.00	7.27	0.00	2.67	0.13	0.00	2.80	0.00	32.52	0.00	0.	0.00
495	3.000	32.30	0.00	0.00	0.00	6.38	7.25	0.00	7.25	0.00	2.67	0.13	0.00	2.80	0.00	32.41	0.00	0.	0.00
496	2.900	32.30	0.00	0.00	0.00	6.38	7.24	0.00	7.24	0.00	2.67	0.13	0.00	2.80	0.00	32.30	0.00	0.	0.00
497	2.800	32.30	0.00	0.00	0.00	6.39	7.23	0.00	7.23	0.00	2.66	0.13	0.00	2.80	0.00	32.19	0.00	0.	0.00
498	2.700	32.30	0.00	0.00	0.00	6.39	7.22	0.00	7.22	0.00	2.66	0.13	0.00	2.79	0.00	32.08	0.00	0.	0.00
499	2.600	32.30	0.00	0.00	0.00	6.40	7.21	0.00	7.21	0.00	2.66	0.13	0.00	2.79	0.00	31.97	0.00	0.	0.00

500	2.500	32.30	0.00	0.00	0.00	6.40	7.20	0.00	7.20	0.00	2.66	0.13	0.00	2.79	0.00	31.86	0.00	0.	0.00
501	2.400	32.30	0.00	0.00	0.00	6.41	7.19	0.00	7.19	0.00	2.66	0.13	0.00	2.79	0.00	31.75	0.00	0.	0.00
502	2.300	32.30	0.00	0.00	0.00	6.41	7.18	0.00	7.18	0.00	2.65	0.13	0.00	2.79	0.00	31.64	0.00	0.	0.00
503	2.200	32.30	0.00	0.00	0.00	6.41	7.17	0.00	7.17	0.00	2.65	0.13	0.00	2.78	0.00	31.53	0.00	0.	0.00
504	2.100	32.30	0.00	0.00	0.00	6.42	7.15	0.00	7.15	0.00	2.65	0.13	0.00	2.78	0.00	31.42	0.00	0.	0.00
505	2.000	32.30	0.00	0.00	0.00	6.42	7.14	0.00	7.14	0.00	2.65	0.13	0.00	2.78	0.00	31.32	0.00	0.	0.00
506	1.900	32.30	0.00	0.00	0.00	6.42	7.13	0.00	7.13	0.00	2.64	0.13	0.00	2.78	0.00	31.21	0.00	0.	0.00
507	1.800	32.30	0.00	0.00	0.00	6.42	7.12	0.00	7.12	0.00	2.64	0.13	0.00	2.78	0.00	31.10	0.00	0.	0.00
508	1.700	32.30	0.00	0.00	0.00	6.43	7.11	0.00	7.11	0.00	2.64	0.13	0.00	2.77	0.00	30.99	0.00	0.	0.00
509	1.600	32.30	0.00	0.00	0.00	6.43	7.10	0.00	7.10	0.00	2.64	0.13	0.00	2.77	0.00	30.88	0.00	0.	0.00
510	1.500	32.30	0.00	0.00	0.00	6.43	7.09	0.00	7.09	0.00	2.64	0.13	0.00	2.77	0.00	30.77	0.00	0.	0.00
511	1.400	32.30	0.00	0.00	0.00	6.43	7.08	0.00	7.08	0.00	2.63	0.13	0.00	2.77	0.00	30.66	0.00	0.	0.00
512	1.300	32.30	0.00	0.00	0.00	6.43	7.07	0.00	7.07	0.00	2.63	0.13	0.00	2.77	0.00	30.55	0.00	0.	0.00
513	1.200	32.30	0.00	0.00	0.00	6.44	7.06	0.00	7.06	0.00	2.63	0.14	0.00	2.76	0.00	30.44	0.00	0.	0.00
514	1.100	32.30	0.00	0.00	0.00	6.44	7.05	0.00	7.05	0.00	2.63	0.14	0.00	2.76	0.00	30.33	0.00	0.	0.00
515	1.000	32.30	0.00	0.00	0.00	6.44	7.03	0.00	7.03	0.00	2.62	0.14	0.00	2.76	0.00	30.22	0.00	0.	0.00
516	0.900	32.30	0.00	0.00	0.00	6.44	7.02	0.00	7.02	0.00	2.62	0.14	0.00	2.76	0.00	30.11	0.00	0.	0.00
517	0.800	32.30	0.00	0.00	0.00	6.44	7.01	0.00	7.01	0.00	2.62	0.14	0.00	2.76	0.00	30.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 16 Pipeline Canal to Corasaw conf. Baseline Simulation for Lake Penchant and Bayou Penchant 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 mg/L	NO3+2 µg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
518	UPR RCH	5.33104	32.30	0.00	0.00	0.00	6.44	7.01	0.00	7.01	0.00	2.62	0.14	0.00	0.00	30.00	0.00	0.00
EACH	INCR	0.00319	30.00	0.00	0.00	0.00	5.00	10.00	0.00			0.85	0.10	0.04	0.00	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	TIDAL VELO m²/s	DISPRSN m/s	MEAN
518	0.80	0.70	5.33423	45.9	0.05853	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
519	0.70	0.60	5.33741	45.9	0.05857	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
520	0.60	0.50	5.34060	45.8	0.05860	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
521	0.50	0.40	5.34379	45.8	0.05864	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
522	0.40	0.30	5.34698	45.8	0.05867	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
523	0.30	0.20	5.35016	45.7	0.05871	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
524	0.20	0.10	5.35335	45.7	0.05874	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
525	0.10	0.00	5.35654	45.7	0.05878	0.02	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.059	
TOT					0.16				72904.00	52000.00						
AVG				0.0587		1.40	65.00				91.13					
CUM					120.67											

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
518	0.700	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00		
519	0.600	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00		
520	0.500	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00		
521	0.400	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00		
522	0.300	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00		
523	0.200	7.27	0.72	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00		

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524   0.100  7.27   0.72   0.09  0.00   0.00   0.00  0.00   0.00  3.25  3.25  3.25   0.03  0.00   0.38  0.00   0.00  0.00  2.18  0.00   0.00   0.00   0.00
525   0.000  7.27   0.72   0.09  0.00   0.00   0.00  0.00   0.00  3.25  3.25  3.25   0.03  0.00   0.38  0.00   0.00  0.00  2.11  0.00   0.00   0.00   0.00
AVG 20 DEG C RATE    0.57   0.05  0.00   0.00   0.00  0.00   0.00  1.50            0.02  0.00   0.15  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   mg/L   µg/L    g/m³  #/100mL
518   0.700  32.30  0.00    0.00    0.00  6.44   7.00   0.00   7.00   0.00   2.62   0.14   0.00   2.75   0.00  29.25   0.00      0.   0.00
519   0.600  32.30  0.00    0.00    0.00  6.44   6.99   0.00   6.99   0.00   2.61   0.14   0.00   2.75   0.00  28.50   0.00      0.   0.00
520   0.500  32.30  0.00    0.00    0.00  6.43   6.98   0.00   6.98   0.00   2.61   0.14   0.00   2.75   0.00  27.75   0.00      0.   0.00
521   0.400  32.30  0.00    0.00    0.00  6.43   6.97   0.00   6.97   0.00   2.61   0.14   0.00   2.75   0.00  27.00   0.00      0.   0.00
522   0.300  32.30  0.00    0.00    0.00  6.42   6.96   0.00   6.96   0.00   2.61   0.14   0.00   2.74   0.00  26.25   0.00      0.   0.00
523   0.200  32.30  0.00    0.00    0.00  6.42   6.95   0.00   6.95   0.00   2.61   0.14   0.00   2.74   0.00  25.50   0.00      0.   0.00
524   0.100  32.30  0.00    0.00    0.00  6.41   6.94   0.00   6.94   0.00   2.60   0.14   0.00   2.74   0.00  24.75   0.00      0.   0.00
525   0.000  32.30  0.00    0.00    0.00  6.39   6.98   0.00   6.98   0.00   2.59   0.14   0.00   2.73   0.00  24.00   0.00      0.   0.00
STREAM SUMMARY                                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Station 935                                  Baseline Simulation for Lake Penchant and Bayou Penchant model
 TRAVEL TIME      =        120.67 DAYS
 MAXIMUM EFFLUENT  =        47.97 PERCENT
 FLOW            =  0.03776 TO    6.84793   m³/s
 DISPERSION       =  0.0000  TO    0.3000    m²/s
 VELOCITY         =  0.00006 TO    0.06784   m/s
 DEPTH            =  1.40    TO    1.77      m
 WIDTH            = 35.00    TO  ******      m
 BOD DECAY        =   0.08   TO    0.09      per day
 NH3 DECAY        =   0.22   TO    0.38      per day
 SOD              =   1.20   TO    5.78      g/m²/d
 NH3 SOURCE       =   0.00   TO    0.00      g/m²/d
 REAERATION       =   0.48   TO    0.76      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      =  31.00   TO   32.30      deg C
 DISSOLVED OXYGEN =   4.90   TO    7.03      mg/L
LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Baseline Simulation for Lake Penchant and Bayou Penchant model
REACH SUMMARY REPORT FOR Bayou Chene
 RCH REACH NAME                      BEGIN   ENDING   REACH   TRAVEL   FLOW AT   AVERAGE    AVG    AVG   FLOW AT   AVERAGE    AVG    AVG
 NO.                                  DIST     DIST   LENGTH    TIME      EOR      VELO   DEPTH   WIDTH     EOR      VELO   DEPTH   WIDTH
                                       km       km      km      days     m3/s      m/s      m       m      cfs       fps      ft      ft
  1  Bayou Chene to Blackbird Bayou      35.10    31.80   3.30    0.30  17.18667   0.12803   1.000  135.00   606.861    0.420   3.281  442.93
  2  Blackbird Bayou to 120401-G         31.80    19.10  12.70    0.95  16.98659   0.15532   1.000  110.00   599.796    0.510   3.281  360.91
  3  120401-G to Turtle Bayou            19.10    13.90   5.20    0.73  13.02979   0.08250   1.768   90.00   460.082    0.271   5.801  295.29
  4  Turtle Bayou to Carenero Bayou      13.90     9.90   4.00    0.87  14.52880   0.05337   1.768  155.00   513.012    0.175   5.801  508.55
  5  Carenero Bayou to un canal 2         9.90     3.60   6.30    2.22   5.11729   0.03277   1.768   90.00   180.692    0.108   5.801  295.29
  6  un canal 2 to Corasaw conf.          3.60     0.60   3.00    1.35   4.91729   0.02578   1.768  110.00   173.630    0.085   5.801  360.91
 17  Corasaw conf. to 120401-C            0.60     0.00   0.60    0.08  10.27383   0.08327   1.402   88.00   362.769    0.273   4.600  288.73
LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Baseline Simulation for Lake Penchant and Bayou Penchant model
REACH SUMMARY REPORT FOR Station 935
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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
7	935 to Peoples Canal and L.P	18.00	15.80	2.20	41.73	0.03776	0.00061	1.768	35.00	1.333	0.002	5.801	114.83
8	Peoples C. and L.P to N. Outlet	15.80	14.90	0.90	64.77	1.57536	0.00016	1.768	2131.00	55.626	0.001	5.801	6991.81
9	N. Outlet to L. Penchant W. Sid	14.90	13.60	1.30	10.39	3.56316	0.00145	1.768	983.00	125.815	0.005	5.801	3225.22
10	L. P. W. Side to L. P W. Outlet	13.60	12.70	0.90	0.76	3.56316	0.01362	1.768	148.00	125.815	0.045	5.801	485.59
11	L. P W. Outlet to Superior Cana	12.70	10.80	1.90	0.67	3.56316	0.03304	1.768	61.00	125.815	0.108	5.801	200.14
12	Superior Canal to un canal 1	10.80	9.50	1.30	0.43	3.56316	0.03530	1.402	72.00	125.815	0.116	4.600	236.23
13	unnamed canal to Brady C/Weir 2	9.50	9.30	0.20	0.03	6.84793	0.06784	1.402	72.00	241.800	0.223	4.600	236.23
14	Brady C/Weir 2 to Km#	9.30	8.10	1.20	0.27	5.12713	0.05212	1.402	70.00	181.039	0.171	4.600	229.67
15	Km# to Pipeline Canal	8.10	0.80	7.30	1.47	5.33104	0.05739	1.402	65.00	188.239	0.188	4.600	213.26
16	Pipeline Canal to Corasaw conf.	0.80	0.00	0.80	0.16	5.35654	0.05866	1.402	65.00	189.139	0.192	4.600	213.26

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	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
1	9314.	0.	-9302.	0.	0.	0.	7.	-11.	0.	0.	0.	28.	-44.	-2.	0.	0.	-68.	0.	0.	0.	79.	0.	0.	-9427.8	9427.7	0.00
2	9302.	0.	-9291.	0.	0.	0.	7.	-11.	0.	0.	0.	28.	-44.	-2.	0.	0.	-68.	0.	0.	0.	80.	0.	0.	-9416.7	9416.7	0.00
3	9291.	0.	-9280.	0.	0.	0.	7.	-11.	0.	0.	0.	28.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-9405.9	9405.9	0.00
4	9280.	0.	-9269.	0.	0.	0.	7.	-11.	0.	0.	0.	28.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-9395.2	9395.2	0.00
5	9269.	0.	-9259.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-9384.8	9384.8	0.00
6	9259.	0.	-9248.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-9374.5	9374.5	0.00
7	9248.	0.	-9238.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-9364.5	9364.5	0.00
8	9238.	0.	-9228.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-9354.6	9354.6	0.00
9	9228.	0.	-9218.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-9344.9	9344.9	0.00
10	9218.	0.	-9209.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-9335.4	9335.4	0.00
11	9209.	0.	-9199.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-9326.0	9326.0	0.00
12	9199.	0.	-9190.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-9316.8	9316.8	0.00
13	9190.	0.	-9181.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-9307.8	9307.8	0.00
14	9181.	0.	-9172.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-9299.0	9299.0	0.00
15	9172.	0.	-9163.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-9290.3	9290.3	0.00
16	9163.	0.	-9154.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-9281.8	9281.8	0.00
17	9154.	0.	-9146.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-9273.5	9273.5	0.00
18	9146.	0.	-9138.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-9265.3	9265.3	0.00
19	9138.	0.	-9130.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-9257.3	9257.3	0.00
20	9130.	0.	-9122.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-9249.4	9249.4	0.00
21	9122.	0.	-9114.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-9241.7	9241.7	0.00
22	9114.	0.	-9106.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-9234.1	9234.1	0.00
23	9106.	0.	-9099.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-9226.7	9226.7	0.00
24	9099.	0.	-9091.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-9219.4	9219.4	0.00
25	9091.	0.	-9084.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-9212.3	9212.3	0.00
26	9084.	0.	-9077.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-9205.3	9205.3	0.00
27	9077.	0.	-9070.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-70.	0.	0.	0.	86.	0.	0.	-9198.5	9198.5	0.00
28	9070.	0.	-9063.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-9191.8	9191.8	0.00
29	9063.	0.	-9056.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-9185.2	9185.2	0.00
30	9056.	0.	-9050.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-9178.7	9178.7	0.00
31	9050.	0.	-9043.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-9172.4	9172.4	0.00
32	9043.	0.	-9037.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-9166.3	9166.3	0.00
33	9037.	0.	-9031.	0.	0.	0.	7.	-11.	0.	0.	0.	29.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-9160.2	9160.2	0.00
34	9031.	0.	-9023.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9145.7	9145.7	0.00

35	9023.	0.	-9015.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9138.0	9138.0	0.00
36	9015.	0.	-9008.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9130.4	9130.4	0.00
37	9008.	0.	-9000.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9122.8	9122.8	0.00
38	9000.	0.	-8992.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9115.2	9115.2	0.00
39	8992.	0.	-8985.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9107.7	9107.7	0.00
40	8985.	0.	-8977.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9100.2	9100.2	0.00
41	8977.	0.	-8969.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9092.7	9092.7	0.00
42	8969.	0.	-8962.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9085.2	9085.2	0.00
43	8962.	0.	-8954.	0.	0.	0.	17.	-21.	0.	0.	0.	27.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9077.8	9077.8	0.00
44	8954.	0.	-8947.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9070.4	9070.4	0.00
45	8947.	0.	-8939.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9063.1	9063.1	0.00
46	8939.	0.	-8932.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9055.8	9055.8	0.00
47	8932.	0.	-8925.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9048.5	9048.5	0.00
48	8925.	0.	-8917.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-9041.2	9041.2	0.00
49	8917.	0.	-8910.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-9034.0	9034.0	0.00
50	8910.	0.	-8903.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-9026.8	9026.8	0.00
51	8903.	0.	-8895.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-9019.6	9019.6	0.00
52	8895.	0.	-8888.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-9012.5	9012.5	0.00
53	8888.	0.	-8881.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-9005.3	9005.3	0.00
54	8881.	0.	-8874.	0.	0.	0.	17.	-21.	0.	0.	0.	28.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8998.3	8998.3	0.00
55	8874.	0.	-8867.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8991.2	8991.2	0.00
56	8867.	0.	-8859.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8984.2	8984.2	0.00
57	8859.	0.	-8852.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8977.2	8977.2	0.00
58	8852.	0.	-8845.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8970.2	8970.2	0.00
59	8845.	0.	-8838.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8963.3	8963.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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
60	8838.	0.	-8831.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8956.4	8956.4	0.00
61	8831.	0.	-8824.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8949.5	8949.5	0.00
62	8824.	0.	-8817.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8942.7	8942.7	0.00
63	8817.	0.	-8810.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8935.9	8935.9	0.00
64	8810.	0.	-8804.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8929.1	8929.1	0.00
65	8804.	0.	-8797.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8922.3	8922.3	0.00
66	8797.	0.	-8790.	0.	0.	0.	17.	-21.	0.	0.	0.	29.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8915.6	8915.6	0.00
67	8790.	0.	-8783.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8908.9	8908.9	0.00
68	8783.	0.	-8776.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-40.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8902.2	8902.2	0.00
69	8776.	0.	-8770.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8895.6	8895.6	0.00
70	8770.	0.	-8763.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8889.0	8889.0	0.00
71	8763.	0.	-8756.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8882.4	8882.4	0.00
72	8756.	0.	-8750.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8875.8	8875.8	0.00
73	8750.	0.	-8743.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8869.3	8869.3	0.00
74	8743.	0.	-8736.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8862.8	8862.8	0.00
75	8736.	0.	-8730.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-8856.3	8856.3	0.00
76	8730.	0.	-8723.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8849.9	8849.9	0.00
77	8723.	0.	-8717.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8843.5	8843.5	0.00
78	8717.	0.	-8710.	0.	0.	0.	17.	-21.	0.	0.	0.	30.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8837.1	8837.1	0.00
79	8710.	0.	-8704.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8830.7	8830.7	0.00
80	8704.	0.	-8697.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8824.4	8824.4	0.00
81	8697.	0.	-8691.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8818.1	8818.1	0.00

82	8691.	0.	-8685.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8811.8	8811.8	0.00
83	8685.	0.	-8678.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8805.6	8805.6	0.00
84	8678.	0.	-8672.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8799.3	8799.3	0.00
85	8672.	0.	-8666.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8793.2	8793.1	0.00
86	8666.	0.	-8660.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8787.0	8787.0	0.00
87	8660.	0.	-8653.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8780.8	8780.8	0.00
88	8653.	0.	-8647.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-42.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8774.7	8774.7	0.00
89	8647.	0.	-8641.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8768.6	8768.6	0.00
90	8641.	0.	-8635.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8762.6	8762.6	0.00
91	8635.	0.	-8629.	0.	0.	0.	17.	-21.	0.	0.	0.	31.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8756.6	8756.6	0.00
92	8629.	0.	-8623.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8750.5	8750.5	0.00
93	8623.	0.	-8617.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8744.6	8744.6	0.00
94	8617.	0.	-8611.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8738.6	8738.6	0.00
95	8611.	0.	-8605.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8732.7	8732.7	0.00
96	8605.	0.	-8599.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8726.8	8726.8	0.00
97	8599.	0.	-8593.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8720.9	8720.9	0.00
98	8593.	0.	-8587.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-43.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8715.1	8715.1	0.00
99	8587.	0.	-8581.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8709.2	8709.3	0.00
100	8581.	0.	-8575.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8703.5	8703.5	0.00
101	8575.	0.	-8569.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8697.7	8697.7	0.00
102	8569.	0.	-8563.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-8691.9	8691.9	0.00
103	8563.	0.	-8557.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8686.2	8686.2	0.00
104	8557.	0.	-8552.	0.	0.	0.	17.	-21.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8680.5	8680.5	0.00
105	8552.	0.	-8546.	0.	0.	0.	17.	-20.	0.	0.	0.	32.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8674.9	8674.9	0.00
106	8546.	0.	-8540.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8669.2	8669.2	0.00
107	8540.	0.	-8534.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8663.6	8663.6	0.00
108	8534.	0.	-8529.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8658.0	8658.0	0.00
109	8529.	0.	-8523.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-44.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8652.5	8652.5	0.00
110	8523.	0.	-8518.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8646.9	8646.9	0.00
111	8518.	0.	-8512.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8641.4	8641.4	0.00
112	8512.	0.	-8506.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8635.9	8635.9	0.00
113	8506.	0.	-8501.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8630.5	8630.5	0.00
114	8501.	0.	-8495.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8625.0	8625.0	0.00
115	8495.	0.	-8490.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8619.6	8619.6	0.00
116	8490.	0.	-8484.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8614.2	8614.2	0.00
117	8484.	0.	-8479.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8608.8	8608.8	0.00
118	8479.	0.	-8474.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8603.5	8603.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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
119	8474.	0.	-8468.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8598.2	8598.2	0.00
120	8468.	0.	-8463.	0.	0.	0.	17.	-20.	0.	0.	0.	33.	-45.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8592.9	8592.9	0.00
121	8463.	0.	-8457.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8587.6	8587.6	0.00
122	8457.	0.	-8452.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8582.4	8582.4	0.00
123	8452.	0.	-8447.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8577.2	8577.2	0.00
124	8447.	0.	-8442.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8572.0	8572.0	0.00
125	8442.	0.	-8436.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8566.8	8566.8	0.00
126	8436.	0.	-8431.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8561.7	8561.7	0.00
127	8431.	0.	-8426.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8556.5	8556.5	0.00
128	8426.	0.	-8421.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8551.4	8551.4	0.00

129	8421.	0.	-8416.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-8546.4	8546.4	0.00
130	8416.	0.	-8410.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8541.3	8541.3	0.00
131	8410.	0.	-8405.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8536.3	8536.3	0.00
132	8405.	0.	-8400.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-46.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8531.3	8531.3	0.00
133	8400.	0.	-8395.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8526.3	8526.3	0.00
134	8395.	0.	-8390.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8521.3	8521.3	0.00
135	8390.	0.	-8385.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8516.4	8516.4	0.00
136	8385.	0.	-8380.	0.	0.	0.	17.	-20.	0.	0.	0.	34.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8511.5	8511.5	0.00
137	8380.	0.	-8375.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8506.6	8506.6	0.00
138	8375.	0.	-8370.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8501.7	8501.7	0.00
139	8370.	0.	-8365.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8496.9	8496.9	0.00
140	8365.	0.	-8360.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8492.1	8492.1	0.00
141	8360.	0.	-8356.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8487.3	8487.3	0.00
142	8356.	0.	-8351.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8482.5	8482.5	0.00
143	8351.	0.	-8346.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8477.7	8477.7	0.00
144	8346.	0.	-8341.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-47.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8473.0	8473.0	0.00
145	8341.	0.	-8336.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8468.3	8468.3	0.00
146	8336.	0.	-8332.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8463.6	8463.6	0.00
147	8332.	0.	-8327.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8459.0	8459.0	0.00
148	8327.	0.	-8322.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8454.3	8454.3	0.00
149	8322.	0.	-8317.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8449.7	8449.7	0.00
150	8317.	0.	-8313.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8445.1	8445.1	0.00
151	8313.	0.	-8308.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8440.5	8440.5	0.00
152	8308.	0.	-8304.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8436.0	8436.0	0.00
153	8304.	0.	-8299.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8431.4	8431.4	0.00
154	8299.	0.	-8294.	0.	0.	0.	17.	-20.	0.	0.	0.	35.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8426.9	8426.9	0.00
155	8294.	0.	-8290.	0.	0.	0.	17.	-20.	0.	0.	0.	36.	-48.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-8422.4	8422.4	0.00
156	8290.	0.	-8285.	0.	0.	0.	17.	-20.	0.	0.	0.	36.	-48.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-8418.0	8418.0	0.00
157	8285.	0.	-8281.	0.	0.	0.	17.	-20.	0.	0.	0.	36.	-48.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-8413.5	8413.5	0.00
158	8281.	0.	-8276.	0.	0.	0.	17.	-20.	0.	0.	0.	36.	-49.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-8409.1	8409.1	0.00
159	8276.	0.	-8272.	0.	0.	0.	17.	-20.	0.	0.	0.	36.	-49.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-8404.7	8404.7	0.00
160	8272.	0.	-8270.	0.	0.	2.	17.	-20.	0.	0.	0.	36.	-49.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-8402.5	8402.5	0.00
161	8270.	0.	-6489.	-2.	0.	3.	4.	-7.	0.	0.	-1843.	16.	-29.	-3.	0.	0.	-28.	0.	0.	0.	109.	0.	0.	-8401.5	8401.5	0.00
162	6489.	0.	-6550.	-3.	0.	3.	4.	-7.	0.	0.	0.	15.	-29.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-6619.8	6619.7	0.00
163	6550.	0.	-6609.	-3.	0.	3.	4.	-7.	0.	0.	0.	15.	-29.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-6679.4	6679.4	0.00
164	6609.	0.	-6668.	-3.	0.	3.	4.	-7.	0.	0.	0.	14.	-29.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-6737.9	6737.9	0.00
165	6668.	0.	-6726.	-3.	0.	3.	4.	-7.	0.	0.	0.	14.	-29.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-6795.5	6795.5	0.00
166	6726.	0.	-6782.	-3.	0.	3.	4.	-7.	0.	0.	0.	13.	-29.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-6851.9	6851.9	0.00
167	6782.	0.	-6838.	-3.	0.	3.	4.	-7.	0.	0.	0.	13.	-29.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-6907.4	6907.4	0.00
168	6838.	0.	-6892.	-3.	0.	3.	4.	-7.	0.	0.	0.	12.	-29.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-6961.8	6961.8	0.00
169	6892.	0.	-6945.	-3.	0.	3.	4.	-7.	0.	0.	0.	12.	-29.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-7015.3	7015.3	0.00
170	6945.	0.	-6998.	-3.	0.	3.	4.	-7.	0.	0.	0.	11.	-29.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-7067.7	7067.7	0.00
171	6998.	0.	-7049.	-3.	0.	3.	4.	-7.	0.	0.	0.	11.	-29.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-7119.1	7119.1	0.00
172	7049.	0.	-7100.	-3.	0.	2.	4.	-7.	0.	0.	0.	10.	-29.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-7169.6	7169.6	-0.01
173	7100.	0.	-7149.	-2.	0.	2.	4.	-7.	0.	0.	0.	10.	-29.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-7219.1	7219.1	0.00
174	7149.	0.	-7198.	-2.	0.	2.	4.	-7.	0.	0.	0.	10.	-29.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-7267.6	7267.6	0.00
175	7198.	0.	-7246.	-2.	0.	2.	4.	-7.	0.	0.	0.	9.	-29.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-7315.2	7315.2	0.00
176	7246.	0.	-7292.	-2.	0.	2.	4.	-7.	0.	0.	0.	9.	-29.	-3.	0.	0.	-28.	0.	0.	0.	101.	0.	0.	-7361.8	7361.8	-0.01
177	7292.	0.	-7338.	-2.	0.	2.	4.	-8.	0.	0.	0.	8.	-29.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-7407.5	7407.5	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
178	7338.	0.	-7383.	-2.	0.	2.	4.	-8.	0.	0.	0.	8.	-29.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-7452.2	7452.2	-0.01
179	7383.	0.	-7427.	-2.	0.	2.	4.	-8.	0.	0.	0.	8.	-28.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-7496.1	7496.1	-0.01
180	7427.	0.	-7470.	-2.	0.	2.	4.	-8.	0.	0.	0.	7.	-28.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-7539.0	7539.0	-0.01
181	7470.	0.	-7512.	-2.	0.	2.	4.	-8.	0.	0.	0.	7.	-28.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-7581.0	7581.0	-0.01
182	7512.	0.	-7553.	-2.	0.	2.	4.	-8.	0.	0.	0.	6.	-28.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-7622.2	7622.1	-0.01
183	7553.	0.	-7593.	-2.	0.	2.	4.	-8.	0.	0.	0.	6.	-28.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-7662.4	7662.4	-0.01
184	7593.	0.	-7632.	-2.	0.	2.	4.	-8.	0.	0.	0.	6.	-28.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-7701.8	7701.8	-0.01
185	7632.	0.	-7671.	-2.	0.	2.	4.	-8.	0.	0.	0.	5.	-28.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-7740.3	7740.3	-0.01
186	7671.	0.	-7709.	-2.	0.	2.	4.	-8.	0.	0.	0.	5.	-28.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-7777.9	7777.9	0.00
187	7709.	0.	-7746.	-2.	0.	2.	4.	-8.	0.	0.	0.	5.	-28.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-7814.7	7814.7	-0.01
188	7746.	0.	-7781.	-2.	0.	2.	4.	-8.	0.	0.	0.	4.	-28.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-7850.6	7850.6	-0.01
189	7781.	0.	-7817.	-2.	0.	2.	4.	-8.	0.	0.	0.	4.	-28.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-7885.7	7885.7	-0.01
190	7817.	0.	-7851.	-2.	0.	2.	4.	-8.	0.	0.	0.	4.	-28.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-7920.0	7920.0	-0.01
191	7851.	0.	-7884.	-2.	0.	2.	4.	-8.	0.	0.	0.	3.	-28.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-7953.4	7953.4	-0.01
192	7884.	0.	-7917.	-2.	0.	2.	4.	-8.	0.	0.	0.	3.	-28.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-7986.0	7986.0	-0.01
193	7917.	0.	-7949.	-2.	0.	2.	4.	-8.	0.	0.	0.	3.	-28.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-8017.9	8017.9	-0.01
194	7949.	0.	-7980.	-2.	0.	2.	4.	-8.	0.	0.	0.	3.	-28.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-8048.9	8048.9	-0.01
195	7980.	0.	-8010.	-2.	0.	2.	4.	-8.	0.	0.	0.	2.	-28.	-3.	0.	0.	-28.	0.	0.	0.	91.	0.	0.	-8079.1	8079.1	-0.01
196	8010.	0.	-8040.	-2.	0.	2.	4.	-8.	0.	0.	0.	2.	-28.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-8108.5	8108.5	-0.01
197	8040.	0.	-8068.	-2.	0.	1.	4.	-8.	0.	0.	0.	2.	-28.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-8137.2	8137.2	-0.01
198	8068.	0.	-8096.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-28.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-8165.1	8165.1	-0.01
199	8096.	0.	-8124.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-28.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-8192.2	8192.2	-0.01
200	8124.	0.	-8150.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-28.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-8218.6	8218.6	-0.01
201	8150.	0.	-8176.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-28.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-8244.2	8244.2	-0.01
202	8176.	0.	-8201.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-8269.1	8269.1	-0.01
203	8201.	0.	-8225.	-1.	0.	1.	4.	-8.	0.	0.	0.	0.	-27.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-8293.2	8293.2	-0.01
204	8225.	0.	-8248.	-1.	0.	1.	4.	-9.	0.	0.	0.	0.	-27.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-8316.6	8316.6	0.00
205	8248.	0.	-8271.	-1.	0.	1.	4.	-9.	0.	0.	0.	0.	-27.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-8339.3	8339.3	-0.01
206	8271.	0.	-8293.	-1.	0.	1.	4.	-9.	0.	0.	0.	0.	-27.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-8361.5	8361.5	-0.01
207	8293.	0.	-8314.	-1.	0.	1.	4.	-9.	0.	0.	0.	0.	-27.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-8382.9	8382.9	-0.01
208	8314.	0.	-8335.	-1.	0.	1.	4.	-9.	0.	0.	0.	-1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-8403.7	8403.7	-0.01
209	8335.	0.	-8355.	-1.	0.	1.	4.	-9.	0.	0.	0.	-1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-8423.7	8423.7	-0.01
210	8355.	0.	-8374.	-1.	0.	1.	4.	-9.	0.	0.	0.	-1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-8443.0	8443.0	-0.01
211	8374.	0.	-8392.	-1.	0.	0.	4.	-9.	0.	0.	0.	-1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-8461.0	8461.0	-0.01
212	8392.	0.	-8395.	0.	0.	-15.	4.	-9.	0.	0.	0.	-1.	-27.	-3.	0.	0.	-28.	0.	0.	0.	82.	0.	0.	-8478.0	8478.0	-0.01
213	8395.	0.	-9187.	15.	0.	2.	5.	-11.	0.	734.	0.	1.	-42.	-5.	0.	0.	-49.	0.	0.	0.	140.	0.	0.	-9293.1	9293.1	-0.01
214	9187.	0.	-9225.	-2.	0.	2.	5.	-11.	0.	0.	0.	1.	-42.	-5.	0.	0.	-49.	0.	0.	0.	139.	0.	0.	-9334.3	9334.2	-0.01
215	9225.	0.	-9263.	-2.	0.	2.	5.	-11.	0.	0.	0.	1.	-42.	-5.	0.	0.	-49.	0.	0.	0.	138.	0.	0.	-9371.4	9371.4	-0.01
216	9263.	0.	-9298.	-2.	0.	2.	5.	-11.	0.	0.	0.	0.	-42.	-5.	0.	0.	-49.	0.	0.	0.	137.	0.	0.	-9407.1	9407.0	-0.01
217	9298.	0.	-9333.	-2.	0.	2.	5.	-11.	0.	0.	0.	0.	-42.	-5.	0.	0.	-49.	0.	0.	0.	135.	0.	0.	-9441.4	9441.4	-0.01
218	9333.	0.	-9365.	-2.	0.	2.	5.	-11.	0.	0.	0.	-1.	-42.	-5.	0.	0.	-49.	0.	0.	0.	134.	0.	0.	-9474.3	9474.3	-0.01
219	9365.	0.	-9397.	-2.	0.	2.	5.	-11.	0.	0.	0.	-1.	-41.	-5.	0.	0.	-49.	0.	0.	0.	133.	0.	0.	-9505.8	9505.8	-0.01
220	9397.	0.	-9426.	-2.	0.	2.	5.	-11.	0.	0.	0.	-1.	-41.	-5.	0.	0.	-49.	0.	0.	0.	132.	0.	0.	-9535.7	9535.7	-0.01
221	9426.	0.	-9455.	-2.	0.	2.	5.	-11.	0.	0.	0.	-2.	-41.	-5.	0.	0.	-49.	0.	0.	0.	131.	0.	0.	-9564.2	9564.1	-0.01
222	9455.	0.	-9481.	-2.	0.	2.	5.	-11.	0.	0.	0.	-2.	-41.	-5.	0.	0.	-49.	0.	0.	0.	130.	0.	0.	-9591.1	9591.1	-0.01
223	9481.	0.	-9507.	-2.	0.	2.	5.	-11.	0.	0.	0.	-2.	-41.	-5.	0.	0.	-49.	0.	0.	0.	128.	0.	0.	-9616.7	9616.7	-0.01
224	9507.	0.	-9531.	-2.	0.	1.	5.	-11.	0.	0.	0.	-3.	-41.	-5.	0.	0.	-49.	0.	0.	0.	127.	0.	0.	-9640.8	9640.8	-0.01
225	9531.	0.	-9553.	-1.	0.	1.	5.	-11.	0.	0.	0.	-3.	-41.	-5.	0.	0.	-49.	0.	0.	0.	126.	0.	0.	-9663.5	9663.5	-0.01

226	9553.	0.	-9574.	-1.	0.	1.	5.	-11.	0.	0.	0.	-3.	-41.	-5.	0.	0.	-49.	0.	0.	0.	125.	0.	0.	-9684.8	9684.8	-0.01
227	9574.	0.	-9594.	-1.	0.	1.	5.	-11.	0.	0.	0.	-3.	-41.	-5.	0.	0.	-49.	0.	0.	0.	124.	0.	0.	-9704.7	9704.7	-0.01
228	9594.	0.	-9613.	-1.	0.	1.	5.	-11.	0.	0.	0.	-4.	-41.	-5.	0.	0.	-49.	0.	0.	0.	123.	0.	0.	-9723.3	9723.2	-0.01
229	9613.	0.	-9630.	-1.	0.	1.	5.	-12.	0.	0.	0.	-4.	-41.	-5.	0.	0.	-49.	0.	0.	0.	121.	0.	0.	-9740.4	9740.4	-0.01
230	9630.	0.	-9646.	-1.	0.	1.	5.	-12.	0.	0.	0.	-4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	120.	0.	0.	-9756.3	9756.3	-0.01
231	9646.	0.	-9660.	-1.	0.	1.	5.	-12.	0.	0.	0.	-4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	119.	0.	0.	-9770.9	9770.8	-0.01
232	9660.	0.	-9673.	-1.	0.	1.	5.	-12.	0.	0.	0.	-4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	118.	0.	0.	-9784.1	9784.1	-0.01
233	9673.	0.	-9685.	-1.	0.	1.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	117.	0.	0.	-9796.0	9796.0	-0.01
234	9685.	0.	-9696.	-1.	0.	1.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	115.	0.	0.	-9806.7	9806.7	-0.01
235	9696.	0.	-9705.	-1.	0.	1.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	114.	0.	0.	-9816.1	9816.1	-0.01
236	9705.	0.	-9713.	-1.	0.	1.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	113.	0.	0.	-9824.3	9824.3	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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
237	9713.	0.	-9720.	-1.	0.	1.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	112.	0.	0.	-9831.2	9831.2	-0.01
238	9720.	0.	-9726.	-1.	0.	0.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	111.	0.	0.	-9837.0	9836.9	-0.01
239	9726.	0.	-9731.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	110.	0.	0.	-9841.5	9841.5	-0.01
240	9731.	0.	-9734.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	108.	0.	0.	-9844.8	9844.8	-0.01
241	9734.	0.	-9736.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	107.	0.	0.	-9847.0	9846.9	-0.01
242	9736.	0.	-9737.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	106.	0.	0.	-9848.0	9847.9	-0.01
243	9737.	0.	-9737.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	105.	0.	0.	-9847.8	9847.8	-0.01
244	9737.	0.	-9736.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	104.	0.	0.	-9846.5	9846.5	-0.01
245	9736.	0.	-9734.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	102.	0.	0.	-9844.1	9844.1	-0.01
246	9734.	0.	-9731.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	101.	0.	0.	-9840.7	9840.7	-0.01
247	9731.	0.	-9726.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	100.	0.	0.	-9836.2	9836.2	-0.01
248	9726.	0.	-9721.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	99.	0.	0.	-9830.6	9830.6	-0.01
249	9721.	0.	-9714.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	98.	0.	0.	-9824.0	9824.0	-0.01
250	9714.	0.	-9706.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	97.	0.	0.	-9816.3	9816.3	-0.01
251	9706.	0.	-9698.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	95.	0.	0.	-9807.5	9807.5	-0.01
252	9698.	0.	-9688.	0.	0.	0.	5.	-12.	0.	0.	0.	-5.	-39.	-5.	0.	0.	-49.	0.	0.	0.	94.	0.	0.	-9797.8	9797.8	-0.01
253	9688.	0.	-3542.	0.	0.	0.	3.	-7.	0.	0.	-6140.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-9746.3	9746.3	-0.01
254	3542.	0.	-3536.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3599.9	3599.9	-0.01
255	3536.	0.	-3529.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3593.2	3593.2	-0.01
256	3529.	0.	-3522.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3586.2	3586.2	-0.01
257	3522.	0.	-3515.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3579.1	3579.1	-0.01
258	3515.	0.	-3508.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3571.8	3571.8	-0.01
259	3508.	0.	-3501.	0.	0.	0.	3.	-7.	0.	0.	0.	-3.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3564.3	3564.3	-0.01
260	3501.	0.	-3493.	0.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3556.7	3556.7	-0.01
261	3493.	0.	-3486.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3548.9	3548.9	-0.01
262	3486.	0.	-3478.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3540.9	3540.9	-0.01
263	3478.	0.	-3470.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3532.7	3532.7	-0.01
264	3470.	0.	-3462.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-21.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3524.4	3524.4	-0.01
265	3462.	0.	-3454.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3516.0	3516.0	-0.01
266	3454.	0.	-3445.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3507.4	3507.4	-0.01
267	3445.	0.	-3436.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3498.6	3498.6	-0.01
268	3436.	0.	-3428.	1.	0.	-1.	3.	-7.	0.	0.	0.	-2.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3489.7	3489.7	-0.01
269	3428.	0.	-3419.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3480.6	3480.6	-0.01
270	3419.	0.	-3410.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3471.4	3471.4	-0.01
271	3410.	0.	-3401.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3462.1	3462.1	-0.01
272	3401.	0.	-3391.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3452.6	3452.6	-0.01

273	3391.	0.	-3382.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3443.0	3443.0	-0.01
274	3382.	0.	-3373.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3433.2	3433.2	-0.01
275	3373.	0.	-3363.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3423.4	3423.4	-0.01
276	3363.	0.	-3353.	1.	0.	-1.	3.	-7.	0.	0.	0.	-1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3413.4	3413.3	-0.01
277	3353.	0.	-3343.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3403.2	3403.2	-0.01
278	3343.	0.	-3333.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3393.0	3393.0	-0.01
279	3333.	0.	-3323.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3382.6	3382.6	-0.01
280	3323.	0.	-3313.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3372.1	3372.1	-0.01
281	3313.	0.	-3302.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3361.6	3361.6	-0.01
282	3302.	0.	-3292.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3351.0	3351.0	-0.01
283	3292.	0.	-3281.	1.	0.	-1.	3.	-7.	0.	0.	0.	0.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3340.3	3340.3	-0.01
284	3281.	0.	-3270.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3329.6	3329.5	-0.01
285	3270.	0.	-3260.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3318.7	3318.7	-0.01
286	3260.	0.	-3249.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3307.7	3307.7	-0.01
287	3249.	0.	-3238.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3296.6	3296.5	-0.01
288	3238.	0.	-3227.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3285.4	3285.3	-0.01
289	3227.	0.	-3215.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3274.1	3274.0	-0.01
290	3215.	0.	-3204.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3262.7	3262.7	-0.01
291	3204.	0.	-3193.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3251.2	3251.2	-0.01
292	3193.	0.	-3181.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-19.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3239.6	3239.6	-0.01
293	3181.	0.	-3170.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3227.9	3227.9	-0.01
294	3170.	0.	-3158.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3216.2	3216.2	-0.01
295	3158.	0.	-3146.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3204.3	3204.3	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

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	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
296	3146.	0.	-3134.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3192.4	3192.4	-0.01
297	3134.	0.	-3122.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3180.4	3180.4	-0.01
298	3122.	0.	-3110.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3168.3	3168.3	-0.01
299	3110.	0.	-3098.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3156.1	3156.1	-0.01
300	3098.	0.	-3086.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3143.9	3143.8	-0.01
301	3086.	0.	-3074.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3131.5	3131.5	-0.01
302	3074.	0.	-3061.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3119.1	3119.1	-0.01
303	3061.	0.	-3049.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3106.6	3106.6	-0.01
304	3049.	0.	-3037.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3094.1	3094.1	0.00
305	3037.	0.	-3024.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3081.5	3081.5	-0.01
306	3024.	0.	-3011.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3068.8	3068.8	-0.01
307	3011.	0.	-2999.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3056.0	3056.0	0.00
308	2999.	0.	-2986.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3043.2	3043.2	0.00
309	2986.	0.	-2973.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3030.3	3030.3	0.00
310	2973.	0.	-2960.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3017.3	3017.3	0.00
311	2960.	0.	-2947.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3004.3	3004.3	0.00
312	2947.	0.	-2934.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-2991.2	2991.2	0.00
313	2934.	0.	-2921.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-2978.1	2978.1	0.00
314	2921.	0.	-2908.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-2964.9	2964.9	0.00
315	2908.	0.	-2894.	1.	0.	-2.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-2951.7	2951.7	0.00
316	2894.	0.	-2876.	2.	0.	-2.	7.	-13.	0.	0.	0.	8.	-22.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2951.3	2951.3	-0.01
317	2876.	0.	-2858.	2.	0.	-2.	7.	-13.	0.	0.	0.	8.	-22.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2933.4	2933.4	-0.01
318	2858.	0.	-2841.	2.	0.	-2.	7.	-13.	0.	0.	0.	8.	-22.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2916.0	2916.0	-0.01
319	2841.	0.	-2824.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2899.0	2899.0	-0.01

320	2824.	0.	-2808.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2882.4	2882.4	-0.01
321	2808.	0.	-2792.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2866.2	2866.2	-0.01
322	2792.	0.	-2776.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2850.4	2850.4	0.00
323	2776.	0.	-2761.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2834.9	2834.9	-0.01
324	2761.	0.	-2746.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2819.8	2819.8	-0.01
325	2746.	0.	-2731.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2805.0	2805.0	0.00
326	2731.	0.	-2717.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2790.6	2790.6	0.00
327	2717.	0.	-2703.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-4.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2776.5	2776.5	0.00
328	2703.	0.	-2689.	2.	0.	-2.	7.	-12.	0.	0.	0.	11.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2762.8	2762.8	0.00
329	2689.	0.	-2676.	2.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2749.3	2749.3	0.00
330	2676.	0.	-2663.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2736.2	2736.2	0.00
331	2663.	0.	-2650.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2723.3	2723.3	0.00
332	2650.	0.	-2638.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2710.8	2710.8	0.00
333	2638.	0.	-2626.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2698.6	2698.5	0.00
334	2626.	0.	-2614.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2686.6	2686.6	0.00
335	2614.	0.	-2602.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2674.9	2674.9	0.00
336	2602.	0.	-2591.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-4.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2663.4	2663.4	0.00
337	2591.	0.	-2580.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2652.3	2652.3	0.00
338	2580.	0.	-2569.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2641.4	2641.3	0.00
339	2569.	0.	-2558.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2630.7	2630.7	0.00
340	2558.	0.	-2548.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2620.2	2620.2	0.00
341	2548.	0.	-2538.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2610.0	2610.0	0.00
342	2538.	0.	-2528.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2600.1	2600.1	0.00
343	2528.	0.	-2519.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2590.3	2590.3	0.00
344	2519.	0.	-2511.	1.	0.	1.	7.	-12.	0.	0.	0.	13.	-20.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2581.9	2581.8	0.00
345	2511.	0.	-2515.	-1.	0.	14.	7.	-12.	0.	0.	0.	13.	-19.	-4.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2586.1	2586.1	0.00
526	2515.	2959.	-5458.	-14.	3.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-5513.6	5513.6	0.00
527	5458.	0.	-5455.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-5496.5	5496.5	0.00
528	5455.	0.	-5452.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-5493.4	5493.4	0.00
529	5452.	0.	-5449.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-5490.4	5490.4	0.00
530	5449.	0.	-5446.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-5487.5	5487.5	0.00
531	5446.	0.	-5442.	0.	0.	-3.	0.	0.	0.	0.	0.	12.	-9.	-2.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-5484.8	5484.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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
346	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-29.0	29.0	0.00
347	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
348	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
349	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
350	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
351	16.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
352	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
353	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
354	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.6	28.6	0.00
355	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
356	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
357	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
358	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
359	17.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00
360	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.7	28.7	0.00

361	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
362	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
363	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
364	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
365	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
366	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
367	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-10.	0.	0.	0.	5.	0.	0.	-28.8	28.8	0.00
368	18.	0.	-127.	0.	0.	0.	74.	0.	0.	0.	0.	96.	-87.	-31.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-500.4	500.4	-0.06
369	127.	0.	-230.	0.	0.	0.	74.	0.	0.	0.	0.	97.	-92.	-32.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-609.7	609.7	-0.07
370	230.	0.	-334.	0.	0.	0.	74.	0.	0.	0.	0.	98.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-714.7	714.6	-0.07
371	334.	0.	-438.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-818.8	818.7	-0.07
372	438.	0.	-541.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-922.6	922.6	-0.07
373	541.	0.	-645.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1026.4	1026.3	-0.07
374	645.	0.	-748.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1130.1	1130.0	-0.07
375	748.	0.	-852.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1233.7	1233.6	-0.07
376	852.	0.	-956.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1337.4	1337.3	-0.07
377	956.	0.	-935.	0.	0.	0.	119.	-67.	0.	0.	0.	130.	-52.	-16.	0.	0.	-295.	0.	0.	0.	161.	0.	0.	-1365.7	1365.6	-0.02
378	935.	0.	-964.	0.	0.	0.	119.	-63.	0.	0.	0.	167.	-59.	-18.	0.	0.	-296.	0.	0.	0.	178.	0.	0.	-1399.4	1399.3	-0.02
379	964.	0.	-1018.	0.	0.	0.	119.	-62.	0.	0.	0.	182.	-63.	-19.	0.	0.	-297.	0.	0.	0.	195.	0.	0.	-1459.6	1459.6	-0.02
380	1018.	0.	-1088.	0.	0.	0.	119.	-61.	0.	0.	0.	185.	-67.	-21.	0.	0.	-298.	0.	0.	0.	212.	0.	0.	-1534.9	1534.9	-0.02
381	1088.	0.	-1167.	0.	0.	0.	119.	-61.	0.	0.	0.	183.	-70.	-22.	0.	0.	-298.	0.	0.	0.	229.	0.	0.	-1619.5	1619.5	-0.02
382	1167.	0.	-1254.	0.	0.	0.	119.	-62.	0.	0.	0.	177.	-72.	-23.	0.	0.	-299.	0.	0.	0.	246.	0.	0.	-1710.5	1710.5	-0.02
383	1254.	0.	-1345.	0.	0.	0.	119.	-63.	0.	0.	0.	170.	-74.	-25.	0.	0.	-300.	0.	0.	0.	264.	0.	0.	-1806.3	1806.3	-0.03
384	1345.	0.	-1441.	0.	0.	0.	119.	-63.	0.	0.	0.	161.	-76.	-26.	0.	0.	-301.	0.	0.	0.	281.	0.	0.	-1906.3	1906.2	-0.03
385	1441.	0.	-1541.	0.	0.	0.	119.	-64.	0.	0.	0.	151.	-77.	-27.	0.	0.	-301.	0.	0.	0.	298.	0.	0.	-2009.8	2009.7	-0.03
386	1541.	0.	-1644.	0.	0.	0.	119.	-65.	0.	0.	0.	141.	-78.	-27.	0.	0.	-302.	0.	0.	0.	316.	0.	0.	-2116.6	2116.6	-0.04
387	1644.	0.	-1750.	0.	0.	0.	119.	-66.	0.	0.	0.	130.	-79.	-28.	0.	0.	-303.	0.	0.	0.	333.	0.	0.	-2226.6	2226.6	-0.04
388	1750.	0.	-1860.	0.	0.	0.	119.	-67.	0.	0.	0.	119.	-80.	-29.	0.	0.	-303.	0.	0.	0.	351.	0.	0.	-2339.7	2339.7	-0.04
389	1860.	0.	-1973.	0.	0.	0.	119.	-68.	0.	0.	0.	108.	-81.	-30.	0.	0.	-304.	0.	0.	0.	368.	0.	0.	-2455.9	2455.9	-0.05
390	1973.	0.	-1936.	0.	0.	0.	24.	-30.	0.	0.	0.	14.	-12.	-7.	0.	0.	-85.	0.	0.	0.	59.	0.	0.	-2070.0	2070.0	-0.01
391	1936.	0.	-1903.	0.	0.	0.	24.	-30.	0.	0.	0.	15.	-12.	-6.	0.	0.	-85.	0.	0.	0.	62.	0.	0.	-2036.6	2036.6	-0.01
392	1903.	0.	-1875.	0.	0.	0.	24.	-29.	0.	0.	0.	16.	-12.	-6.	0.	0.	-85.	0.	0.	0.	65.	0.	0.	-2008.1	2008.1	-0.01
393	1875.	0.	-1851.	0.	0.	0.	24.	-29.	0.	0.	0.	17.	-12.	-6.	0.	0.	-85.	0.	0.	0.	68.	0.	0.	-1984.2	1984.2	-0.01
394	1851.	0.	-1832.	0.	0.	0.	24.	-29.	0.	0.	0.	18.	-12.	-6.	0.	0.	-85.	0.	0.	0.	71.	0.	0.	-1964.7	1964.7	-0.01
395	1832.	0.	-1817.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	75.	0.	0.	-1949.3	1949.3	-0.01
396	1817.	0.	-1805.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	78.	0.	0.	-1937.9	1937.9	-0.01
397	1805.	0.	-1798.	0.	0.	0.	24.	-28.	0.	0.	0.	20.	-13.	-6.	0.	0.	-85.	0.	0.	0.	81.	0.	0.	-1930.1	1930.1	-0.01
398	1798.	0.	-1794.	0.	0.	0.	24.	-28.	0.	0.	0.	20.	-13.	-6.	0.	0.	-85.	0.	0.	0.	84.	0.	0.	-1925.9	1925.9	-0.01
399	1794.	0.	-1792.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1847.9	1847.9	0.00
400	1792.	0.	-1790.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1846.0	1846.0	0.00
401	1790.	0.	-1788.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1844.2	1844.2	0.00
402	1788.	0.	-1786.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1842.4	1842.4	0.00
403	1786.	0.	-1784.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1840.6	1840.6	0.00
404	1784.	0.	-1783.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1838.8	1838.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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 BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
405	1783.	0.	-1781.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1837.2	1837.1	0.00
406	1781.	0.	-1779.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1835.5	1835.5	0.00
407	1779.	0.	-1778.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1833.9	1833.9	0.00

408	1778.	0.	-1776.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1832.3	1832.3	0.00
409	1776.	0.	-1774.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1830.7	1830.7	0.00
410	1774.	0.	-1773.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1829.2	1829.2	0.00
411	1773.	0.	-1771.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1827.7	1827.7	0.00
412	1771.	0.	-1770.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1826.3	1826.3	0.00
413	1770.	0.	-1769.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1824.8	1824.8	0.00
414	1769.	0.	-1767.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1823.4	1823.4	0.00
415	1767.	0.	-1766.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1822.1	1822.1	0.00
416	1766.	0.	-1765.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1820.7	1820.7	0.00
417	1765.	0.	-1763.	0.	0.	-1.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1819.5	1819.4	0.00
418	1763.	0.	-1755.	1.	0.	0.	17.	-19.	0.	0.	0.	10.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1822.9	1822.9	0.00
419	1755.	0.	-1747.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1814.7	1814.7	0.00
420	1747.	0.	-1739.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1806.8	1806.8	0.00
421	1739.	0.	-1731.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1799.1	1799.1	0.00
422	1731.	0.	-1724.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1791.6	1791.6	0.00
423	1724.	0.	-1716.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1784.4	1784.4	0.00
424	1716.	0.	-1709.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1777.3	1777.3	0.00
425	1709.	0.	-1703.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1770.4	1770.4	0.00
426	1703.	0.	-1696.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1763.8	1763.8	0.00
427	1696.	0.	-1690.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1757.3	1757.3	0.00
428	1690.	0.	-1683.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1751.0	1751.0	0.00
429	1683.	0.	-1677.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1744.9	1744.9	0.00
430	1677.	0.	-1670.	0.	0.	-2.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1739.0	1739.0	0.00
431	1670.	0.	-3109.	2.	0.	0.	0.	0.	0.	1419.	0.	16.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-3139.9	3139.9	0.00
432	3109.	0.	-3127.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-3158.1	3158.1	0.00
433	3127.	0.	-2342.	0.	0.	0.	1.	0.	0.	0.	-801.	13.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-3173.5	3173.5	0.00
434	2342.	0.	-2358.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2388.2	2388.2	0.00
435	2358.	0.	-2374.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2403.9	2403.9	0.00
436	2374.	0.	-2389.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2419.4	2419.4	0.00
437	2389.	0.	-2404.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2434.5	2434.5	0.00
438	2404.	0.	-2419.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2449.4	2449.4	0.00
439	2419.	0.	-2433.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2464.0	2464.0	0.00
440	2433.	0.	-2447.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2478.4	2478.4	0.00
441	2447.	0.	-2461.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-7.	-2.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-2492.5	2492.5	0.00
442	2461.	0.	-2475.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-2506.4	2506.4	0.00
443	2475.	0.	-2489.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-2520.0	2520.0	0.00
444	2489.	0.	-2502.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-2533.3	2533.3	0.00
445	2502.	0.	-2515.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2543.9	2543.9	0.00
446	2515.	0.	-2527.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2556.4	2556.4	0.00
447	2527.	0.	-2539.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2568.7	2568.7	0.00
448	2539.	0.	-2551.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2580.7	2580.7	0.00
449	2551.	0.	-2563.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2592.5	2592.5	0.00
450	2563.	0.	-2575.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2604.1	2604.1	0.00
451	2575.	0.	-2586.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2615.4	2615.4	0.00
452	2586.	0.	-2597.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2626.5	2626.5	0.00
453	2597.	0.	-2608.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2637.4	2637.4	0.00
454	2608.	0.	-2619.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-2648.1	2648.1	0.00
455	2619.	0.	-2629.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2658.6	2658.6	0.00
456	2629.	0.	-2640.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2668.8	2668.8	0.00
457	2640.	0.	-2650.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2678.9	2678.9	0.00

458	2650.	0.	-2660.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2688.7	2688.7	0.00
459	2660.	0.	-2669.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2698.4	2698.4	0.00
460	2669.	0.	-2679.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2707.8	2707.8	0.00
461	2679.	0.	-2688.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2717.0	2717.0	0.00
462	2688.	0.	-2697.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2726.1	2726.1	0.00
463	2697.	0.	-2706.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2734.9	2734.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

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
464	2706.	0.	-2714.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2743.6	2743.6	0.00
465	2714.	0.	-2723.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2752.1	2752.1	0.00
466	2723.	0.	-2731.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-2760.4	2760.4	0.00
467	2731.	0.	-2739.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2768.5	2768.5	0.00
468	2739.	0.	-2747.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2776.4	2776.4	0.00
469	2747.	0.	-2755.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2784.2	2784.2	0.00
470	2755.	0.	-2763.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2791.8	2791.8	0.00
471	2763.	0.	-2770.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2799.2	2799.2	0.00
472	2770.	0.	-2777.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2806.5	2806.5	0.00
473	2777.	0.	-2784.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2813.6	2813.6	0.00
474	2784.	0.	-2791.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2820.5	2820.5	0.00
475	2791.	0.	-2798.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2827.3	2827.3	0.00
476	2798.	0.	-2805.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2833.9	2833.9	0.00
477	2805.	0.	-2811.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-2840.3	2840.3	0.00
478	2811.	0.	-2818.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2846.6	2846.6	0.00
479	2818.	0.	-2824.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2852.8	2852.8	0.00
480	2824.	0.	-2830.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2858.8	2858.8	0.00
481	2830.	0.	-2836.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2864.7	2864.7	0.00
482	2836.	0.	-2841.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2870.4	2870.4	0.00
483	2841.	0.	-2847.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2876.0	2876.0	0.00
484	2847.	0.	-2852.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2881.4	2881.4	0.00
485	2852.	0.	-2858.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2886.7	2886.7	0.00
486	2858.	0.	-2863.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2891.9	2891.9	0.00
487	2863.	0.	-2868.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2896.9	2896.9	0.00
488	2868.	0.	-2873.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2901.8	2901.8	0.00
489	2873.	0.	-2878.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2906.6	2906.6	0.00
490	2878.	0.	-2882.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2911.2	2911.2	0.00
491	2882.	0.	-2887.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2915.7	2915.7	0.00
492	2887.	0.	-2891.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2920.1	2920.1	0.00
493	2891.	0.	-2895.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2924.4	2924.4	0.00
494	2895.	0.	-2900.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2928.6	2928.6	0.00
495	2900.	0.	-2904.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2932.6	2932.6	0.00
496	2904.	0.	-2908.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2936.5	2936.5	0.00
497	2908.	0.	-2911.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2940.3	2940.3	0.00
498	2911.	0.	-2915.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2944.0	2944.0	0.00
499	2915.	0.	-2919.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2947.6	2947.6	0.00
500	2919.	0.	-2922.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2951.0	2951.0	0.00
501	2922.	0.	-2925.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2954.4	2954.4	0.00
502	2925.	0.	-2929.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2957.6	2957.6	0.00
503	2929.	0.	-2932.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2960.8	2960.8	0.00
504	2932.	0.	-2935.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2963.8	2963.8	0.00

505	2935.	0.	-2938.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2966.8	2966.8	0.00
506	2938.	0.	-2941.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2969.6	2969.6	0.00
507	2941.	0.	-2943.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2972.3	2972.3	0.00
508	2943.	0.	-2946.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2975.0	2975.0	0.00
509	2946.	0.	-2949.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2977.5	2977.5	0.00
510	2949.	0.	-2951.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2980.0	2980.0	0.00
511	2951.	0.	-2953.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2982.3	2982.3	0.00
512	2953.	0.	-2956.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2984.6	2984.6	0.00
513	2956.	0.	-2958.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2986.8	2986.8	0.00
514	2958.	0.	-2960.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2988.9	2988.8	0.00
515	2960.	0.	-2962.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2990.8	2990.8	0.00
516	2962.	0.	-2964.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2992.8	2992.8	0.00
517	2964.	0.	-2966.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2994.6	2994.6	0.00
518	2966.	0.	-2967.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2996.0	2996.0	0.00
519	2967.	0.	-2968.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2996.8	2996.8	0.00
520	2968.	0.	-2968.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2997.0	2997.0	0.00
521	2968.	0.	-2968.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2996.7	2996.7	0.00
522	2968.	0.	-2967.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	21.	0.	0.	-2995.9	2995.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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
523	2967.	0.	-2966.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2994.4	2994.4	0.00
524	2966.	0.	-2964.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2992.5	2992.5	0.00
525	2964.	0.	-2959.	0.	0.	-3.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	19.	0.	0.	-2990.0	2990.0	0.00

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

Baseline Simulation for Lake Penchant and Bayou Penchant model

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	17.424	9330.0	24166.6	0.0	2406.5	150.5	841.4	0.0	0.0	0.0
INCREMENTAL INFLOW	14.380	6212.3	31122.7	0.0	2847.9	124.2	49.7	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-11.800	-6246.9	-14852.2	0.0	-1804.8	-117.1	-159.5	0.0	0.0	0.0
WASTELOADS	4.984	2153.0	3337.1	0.0	1428.8	21.5	0.0	0.0	0.0	0.0
WITHDRAWLS	-14.715	-8784.4	-21163.8	0.0	-2503.6	-136.5	-36.1	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-10.274	-5441.6	-7380.6	0.0	-1676.2	-109.3	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		-3.2	-651.8	0.0	-201.3	-2.5	5.3	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	0.0	0.0	0.0					0.0
NATURAL REAERATION		9808.9								
DAM REAERATION		0.0								
BACKGROUND SOD		-27115.4								
BOD#1 DECAY		-14577.9	-14577.9							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-497.3	497.3				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-1857.3				-428.9	428.9			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		36519.7				0.0	-1826.0	0.0	0.0	

ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	36.788	64023.9	58626.5	0.0	6683.1	793.6	1325.3	0.0	0.0	0.0
TOTAL OUTPUTS	-36.788	-64026.7	-58626.1	0.0	-6683.1	-794.2	-2021.6	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-2.8	0.4	0.0	0.0	-0.7	-696.2	0.0	0.0	0.0

.....EXECUTION COMPLETED

TMDL output file for subsegments120405/120406

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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 LT - Cade\Baseline\L_Cadehatchtheriot_BASE_0608.txt
Output produced at 18:55 on 06/15/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
TITLE02        Baseline Simulation for Lake de Cade Theriot and Hache 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                       =        0.40000 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   1  Lake Hache incl 937              20.90  TO  16.30  0.1000    4.60    46      1    46
REACH ID    2   2  Lake Hache incl 120406-B         16.30  TO  13.20  0.1000    3.10    31     47    77
REACH ID    3   3  L. Hache-405/406 boundary        13.20  TO   9.30  0.1000    3.90    39     78   116
REACH ID    4   4  405/406 boundary to L. Theriot    9.30  TO   6.70  0.1000    2.60    26    117   142
REACH ID    5   5  Lake Theriot                     2.90  TO   0.50  0.1000    2.40    24    143   166
REACH ID    6   6  Lake Theriot Discharge           0.50  TO   0.00  0.1000    0.50     5    167   171
REACH ID    7   7  L. Theriot to Mandalay WR Bndy   6.70  TO   2.30  0.1000    4.40    44    172   215
REACH ID    8   8  Mandalay WR Bndy to constriction  2.30  TO   1.50  0.1000    0.80     8    216   223
REACH ID    9   9  constriction to Lake Hache inflo  1.50  TO   0.60  0.1000    0.90     9    224   232
REACH ID   10  10  Lake Hache                       1.10  TO   0.10  0.1000    1.00    10    233   242
REACH ID   11  11  Lake Hache Discharge             0.10  TO   0.00  0.1000    0.10     1    243   243
REACH ID   12  12  Lake Hache inflow to 406 boundar  0.60  TO   0.00  0.1000    0.60     6    244   249
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   1     0.000     0.000  1527.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      2   2     0.000     0.000  1029.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      3   3     0.000     0.000    25.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      4   4     0.000     0.000    10.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      5   5     0.000     0.000  2428.000     0.000     0.000     0.800   0.00010   1.460
HYDR-1      6   6     0.000     0.000    20.000     0.000     0.000     1.904   0.00010   1.460
HYDR-1      7   7     0.000     0.000    46.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      8   8     0.000     0.000   110.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      9   9     0.000     0.000    30.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     10  10     0.000     0.000   970.000     0.000     0.000     0.750   0.00010   1.460
HYDR-1     11  11     0.000     0.000    50.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     12  12     0.000     0.000    20.000     0.000     0.000     1.550   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                       RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00      0.500         0.000         0.000         0.000
HYDR        2   2     0.00      0.500         0.000         0.000         0.000
HYDR        3   3     0.00      0.400         0.000         0.000         0.000
HYDR        4   4     0.00      0.300         0.000         0.000         0.000
HYDR        5   5     0.00      0.000         0.000         0.000         0.000
HYDR        6   6     0.00      0.200         0.000         0.000         0.000
HYDR        7   7     0.00      0.100         0.000         0.000         0.000
HYDR        8   8     0.00      0.100         0.000         0.000         0.000
HYDR        9   9     0.00      0.100         0.000         0.000         0.000
HYDR       10  10     0.00      0.000         0.000         0.000         0.000
HYDR       11  11     0.00      0.100         0.000         0.000         0.000
HYDR       12  12     0.00      0.100         0.000         0.000         0.000
ENDATA10
$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$
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CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2     PHOS    CHL A    MACRO
INITIAL         1   1      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         2   2      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         3   3      31.10    0.00     5.00    0.10    0.04     0.00    20.00     0.00
INITIAL         4   4      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         5   5      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         6   6      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         7   7      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         8   8      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL         9   9      31.10    0.00     5.00    0.10    0.04     0.00    53.00     0.00
INITIAL        10  10      31.10    0.00     5.00    0.10    0.04     0.00    94.00     0.00
INITIAL        11  11      31.10    0.00     5.00    0.10    0.04     0.00    94.00     0.00
INITIAL        12  12      31.10    0.00     5.00    0.10    0.04     0.00    94.00     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   1  20 K2=a/D          0.930   0.000   0.000   1.200   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2   2  20 K2=a/D          0.930   0.000   0.000   1.400   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3   3   3 OCONNER-DOBB    0.000   0.000   0.000   2.500   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4   4   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5   5  20 K2=a/D          0.930   0.000   0.000   2.000   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6   6   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7   7   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8   8   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9   9   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  10  20 K2=a/D          0.930   0.000   0.000   2.000   0.010   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  11   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  12  12   3 OCONNER-DOBB    0.000   0.000   0.000   2.000   0.310   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   1      0.003    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         2   2      0.003    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         3   3      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         4   4      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         5   5      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         6   6      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         7   7      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         8   8      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2         9   9      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2        10  10      0.003    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2        11  11      0.010    0.000   0.000   0.200   0.000   0.000   0.000
COEFF-2        12  12      0.010    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
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                    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
INCR-1         1   1     -0.10000    2.98740    30.00     0.00     0.00     0.00  0.64943  -0.02174
INCR-1         2   2     -6.10000    2.98740    30.00     0.00     0.00     0.00  0.96368  -1.96774
INCR-1         3   3      0.00000    0.08500    30.00     0.00     0.00     0.00  0.02179   0.00000
INCR-1         4   4      0.00000    0.00000    30.00     0.00     0.00     0.00  0.00000   0.00000
INCR-1         5   5      0.00000    0.48000    30.00     0.00     0.00     0.00  0.20000   0.00000
INCR-1         6   6      0.00000    0.02000    30.00     0.00     0.00     0.00  0.04000   0.00000
INCR-1         7   7      0.00000    0.00000    30.00     0.00     0.00     0.00  0.00000   0.00000
INCR-1         8   8      0.00000    0.00000    30.00     0.00     0.00     0.00  0.00000   0.00000
INCR-1         9   9      0.00000    0.00000    30.00     0.00     0.00     0.00  0.00000   0.00000
INCR-1        10  10      0.00000    0.09880    30.00     0.00     0.00     0.00  0.09880   0.00000
INCR-1        11  11      0.00000    0.01420    30.00     0.00     0.00     0.00  0.14200   0.00000
INCR-1        12  12      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   1      5.00    28.00     2.00     1.00     0.04     0.00
INCR-2         2   2      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         3   3      5.00    60.00     6.00     1.00     0.04     0.00
INCR-2         4   4      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         5   5      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         6   6      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         7   7      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         8   8      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         9   9      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2        10  10      5.00    60.00     2.40     1.00     0.04     0.00
INCR-2        11  11      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2        12  12      0.00     0.00     0.00     0.00     0.00     0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE     REACH  ID       PHOS    CHL A     COLI      NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE     REACH  ID     BOD#1    ORG-N     COLI      NCM       DO    BOD#2
NONPOINT       1   1      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       2   2      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       3   3      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       4   4      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       5   5      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       6   6      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       7   7      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       8   8      0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT       9   9      0.00     0.00     0.00     0.00     0.00     0.00
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NONPOINT      10  10     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      11  11     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      12  12     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    Lake de Cade        0  11.45895  404.624   31.10    0.00    0.000    0.000  0.00
HDWTR-1      143    Lake Theriot        0   0.00324   0.114   30.00    0.00    0.000    0.000  0.00
HDWTR-1      233    Lake Hache          0   0.00033   0.012   30.00    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    Lake de Cade            6.50    2.72    0.80    0.10    0.04    0.00
HDWTR-2      143    Lake Theriot            6.90    2.72    0.90    0.10    0.04    0.00
HDWTR-2      233    Lake Hache              8.70   60.00    2.10    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      172    142     6.70  Lake Theriot - Minors Canal
JUNCTION      244    232     0.60  Lake Hache - Minors Canal
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      23     18.70  LAG480431        0.00011  0.00388  0.003  31.10    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      23     LAG480431               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                   32.400    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               6.100    mg/L
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LOWER BC    BIOCHEMICAL OXYGEN DEMAND          4.700    mg/L
LOWER BC    ORGANIC NITROGEN                   0.000    mg/L
LOWER BC    AMMONIA NITROGEN                   0.100    mg/L
LOWER BC    NITRATE + NITRITE                  0.040    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                      0.090    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 =  3
NUMBER OF REACHES IN PLOT 1 =   8
PLOT RCH  1  2  3  4  7  8  9 12
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  5  6
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH 10 11
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 Lakedecade.OVL          :Lake Decade and Minors C MS
OVERLAY 2 LakeTheriot.OVL         :Lake Theriot and Minors C MS
OVERLAY 3 LakeHache.OVL           :Lake Hache and Minors C MS
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
   .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
INTERMEDIATE REPORT
Dissolved Oxygen                    Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
  mg/L                              Baseline Simulation for Lake de Cade Theriot and Hache model
ID  RCH  ELEM     +0     +1     +2     +3     +4     +5     +6     +7     +8     +9
 1   1    1    6.49   6.49   6.49   6.49   6.49   6.49   6.49   6.50   6.50   6.50
 1   1   11    6.50   6.51   6.51   6.51   6.51   6.52   6.52   6.52   6.52   6.52
 1   1   21    6.53   6.53   6.53   6.53   6.53   6.53   6.53   6.54   6.54   6.54
 1   1   31    6.54   6.54   6.54   6.54   6.54   6.54   6.54   6.54   6.54   6.54
 1   1   41    6.54   6.54   6.54   6.54   6.53   6.52
 2   2   47    6.48   6.43   6.39   6.34   6.29   6.25   6.20   6.15   6.10   6.05
 2   2   57    6.00   5.95   5.91   5.86   5.81   5.76   5.72   5.67   5.63   5.59
 2   2   67    5.54   5.50   5.46   5.42   5.38   5.35   5.31   5.27   5.24   5.21
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2	2	77	5.19									
3	3	78	5.18	5.17	5.17	5.16	5.15	5.14	5.14	5.13	5.12	5.12
3	3	88	5.11	5.11	5.10	5.10	5.09	5.09	5.08	5.08	5.08	5.08
3	3	98	5.07	5.07	5.07	5.07	5.07	5.06	5.06	5.06	5.06	5.06
3	3	108	5.06	5.06	5.06	5.07	5.07	5.07	5.07	5.07	5.08	
4	4	117	5.08	5.09	5.09	5.10	5.10	5.11	5.11	5.12	5.12	5.13
4	4	127	5.13	5.14	5.14	5.14	5.15	5.15	5.16	5.16	5.17	5.17
4	4	137	5.18	5.18	5.19	5.19	5.20	5.20				
7	7	172	5.29	5.29	5.30	5.30	5.30	5.31	5.31	5.31	5.32	5.32
7	7	182	5.32	5.33	5.33	5.34	5.34	5.34	5.35	5.35	5.36	5.36
7	7	192	5.36	5.37	5.37	5.38	5.38	5.39	5.39	5.39	5.40	5.40
7	7	202	5.41	5.41	5.42	5.42	5.43	5.43	5.44	5.44	5.45	5.45
7	7	212	5.46	5.46	5.47	5.47						
8	8	216	5.47	5.48	5.48	5.48	5.48	5.49	5.49	5.49		
9	9	224	5.50	5.51	5.52	5.54	5.55	5.57	5.59	5.61	5.63	
12	12	244	5.66	5.67	5.67	5.67	5.66	5.66				
5	5	143	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	153	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	163	6.66	6.66	6.66	6.66						
6	6	167	6.80	6.92	7.01	7.05	6.65					
10	10	233	8.68	8.68	8.68	8.68	8.68	8.68	8.68	8.68	8.68	8.65
11	11	243	6.67									

INTERMEDIATE REPORT

Effective BOD — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.87				
2	2	47	3.05	3.24	3.43	3.60	3.78	3.95	4.11	4.27	4.43	4.58
2	2	57	4.73	4.87	5.01	5.14	5.27	5.40	5.52	5.64	5.76	5.87
2	2	67	5.98	6.08	6.19	6.29	6.38	6.47	6.56	6.65	6.73	6.80
2	2	77	6.85									
3	3	78	6.84	6.84	6.84	6.83	6.83	6.83	6.82	6.82	6.81	6.81
3	3	88	6.81	6.80	6.80	6.80	6.79	6.79	6.78	6.78	6.78	6.77
3	3	98	6.77	6.77	6.76	6.76	6.76	6.75	6.75	6.75	6.74	6.74
3	3	108	6.73	6.73	6.73	6.72	6.72	6.72	6.71	6.71	6.71	
4	4	117	6.70	6.70	6.69	6.68	6.68	6.67	6.67	6.66	6.66	6.65
4	4	127	6.65	6.64	6.64	6.63	6.62	6.62	6.61	6.61	6.60	6.60
4	4	137	6.59	6.59	6.58	6.58	6.57	6.57				
7	7	172	6.47	6.45	6.42	6.40	6.38	6.36	6.33	6.31	6.29	6.26
7	7	182	6.24	6.22	6.20	6.17	6.15	6.13	6.11	6.09	6.06	6.04
7	7	192	6.02	6.00	5.98	5.96	5.94	5.91	5.89	5.87	5.85	5.83
7	7	202	5.81	5.79	5.77	5.75	5.73	5.71	5.68	5.66	5.64	5.62
7	7	212	5.60	5.58	5.56	5.54						
8	8	216	5.50	5.45	5.40	5.36	5.31	5.26	5.22	5.18		
9	9	224	5.16	5.15	5.14	5.13	5.12	5.10	5.09	5.08	5.07	
12	12	244	5.23	5.22	5.21	5.20	5.19	5.18				

5	5	143	3.67	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.47	4.75	5.34					
10	10	233	25.28	24.95	24.87	24.84	24.83	24.82	24.82	24.81	24.81	21.71
11	11	243	12.66									

INTERMEDIATE REPORT

Biochemical Oxygen Demand — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.87				
2	2	47	3.05	3.24	3.43	3.60	3.78	3.95	4.11	4.27	4.43	4.58
2	2	57	4.73	4.87	5.01	5.14	5.27	5.40	5.52	5.64	5.76	5.87
2	2	67	5.98	6.08	6.19	6.29	6.38	6.47	6.56	6.65	6.73	6.80
2	2	77	6.85									
3	3	78	6.84	6.84	6.84	6.83	6.83	6.83	6.82	6.82	6.81	6.81
3	3	88	6.81	6.80	6.80	6.80	6.79	6.79	6.78	6.78	6.78	6.77
3	3	98	6.77	6.77	6.76	6.76	6.76	6.75	6.75	6.75	6.74	6.74
3	3	108	6.73	6.73	6.73	6.72	6.72	6.72	6.71	6.71	6.71	
4	4	117	6.70	6.70	6.69	6.68	6.68	6.67	6.67	6.66	6.66	6.65
4	4	127	6.65	6.64	6.64	6.63	6.62	6.62	6.61	6.61	6.60	6.60
4	4	137	6.59	6.59	6.58	6.58	6.57	6.57				
7	7	172	6.47	6.45	6.42	6.40	6.38	6.36	6.33	6.31	6.29	6.26
7	7	182	6.24	6.22	6.20	6.17	6.15	6.13	6.11	6.09	6.06	6.04
7	7	192	6.02	6.00	5.98	5.96	5.94	5.91	5.89	5.87	5.85	5.83
7	7	202	5.81	5.79	5.77	5.75	5.73	5.71	5.68	5.66	5.64	5.62
7	7	212	5.60	5.58	5.56	5.54						
8	8	216	5.50	5.45	5.40	5.36	5.31	5.26	5.22	5.18		
9	9	224	5.16	5.15	5.14	5.13	5.12	5.10	5.09	5.08	5.07	
12	12	244	5.23	5.22	5.21	5.20	5.19	5.18				
5	5	143	3.67	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.47	4.75	5.34					
10	10	233	25.28	24.95	24.87	24.84	24.83	24.82	24.82	24.81	24.81	21.71
11	11	243	12.66									

INTERMEDIATE REPORT

Organic Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.81	0.82	0.82	0.83	0.84	0.84	0.85	0.85	0.86	0.86
1	1	11	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.91
1	1	21	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.95	0.96
1	1	31	0.96	0.97	0.97	0.98	0.98	0.98	0.99	0.99	1.00	1.00
1	1	41	1.00	1.01	1.01	1.01	1.02	1.02				
2	2	47	1.03	1.03	1.04	1.05	1.05	1.06	1.06	1.07	1.08	1.08

2	2	57	1.09	1.09	1.10	1.11	1.11	1.12	1.12	1.13	1.14	1.14
2	2	67	1.15	1.15	1.16	1.17	1.17	1.18	1.18	1.19	1.20	1.20
2	2	77	1.20									
3	3	78	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
3	3	88	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
3	3	98	1.22	1.22	1.22	1.23	1.23	1.23	1.23	1.23	1.23	1.23
3	3	108	1.23	1.23	1.23	1.23	1.23	1.24	1.24	1.24	1.24	
4	4	117	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
4	4	127	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
4	4	137	1.24	1.24	1.24	1.24	1.24	1.24				
7	7	172	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
7	7	182	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
7	7	192	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
7	7	202	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
7	7	212	1.22	1.22	1.22	1.22						
8	8	216	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22		
9	9	224	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.21	1.21	
12	12	244	1.22	1.22	1.22	1.22	1.22	1.21				
5	5	143	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	153	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	163	0.83	0.83	0.83	0.83						
6	6	167	0.84	0.85	0.86	0.88	0.98					
10	10	233	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.73
11	11	243	1.48									

INTERMEDIATE REPORT

Ammonia Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07
1	1	11	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06
1	1	21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	31	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	41	0.06	0.06	0.06	0.06	0.06	0.06				
2	2	47	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
2	2	57	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
2	2	67	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	77	0.11									
3	3	78	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	88	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	98	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	108	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
4	4	117	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	127	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	137	0.11	0.11	0.11	0.11	0.11	0.11				
7	7	172	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	182	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	192	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	202	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	212	0.10	0.10	0.10	0.10						
8	8	216	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		

9	9	224	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
12	12	244	0.09	0.09	0.09	0.09	0.09	0.09			
5	5	143	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	153	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	163	0.04	0.04	0.04	0.04						
6	6	167	0.05	0.05	0.06	0.07	0.08					
10	10	233	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11	11	243	0.10									

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Total Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.93	0.92	0.91	0.91	0.91	0.92	0.92	0.93	0.93	0.93
1	1	11	0.94	0.94	0.94	0.95	0.95	0.96	0.96	0.97	0.97	0.97
1	1	21	0.98	0.98	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.02
1	1	31	1.02	1.02	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.06

1	1	41	1.06	1.06	1.07	1.07	1.08	1.08				
2	2	47	1.09	1.10	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.16
2	2	57	1.17	1.18	1.19	1.20	1.20	1.21	1.22	1.22	1.23	1.24
2	2	67	1.25	1.25	1.26	1.27	1.27	1.28	1.29	1.29	1.30	1.31
2	2	77	1.31									
3	3	78	1.31	1.31	1.31	1.31	1.31	1.32	1.32	1.32	1.32	1.32
3	3	88	1.32	1.32	1.32	1.32	1.32	1.32	1.33	1.33	1.33	1.33
3	3	98	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.34	1.34	1.34
3	3	108	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	
4	4	117	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
4	4	127	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
4	4	137	1.34	1.34	1.34	1.34	1.34	1.34				
7	7	172	1.33	1.33	1.33	1.32	1.32	1.32	1.32	1.32	1.32	1.32
7	7	182	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
7	7	192	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
7	7	202	1.32	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31
7	7	212	1.31	1.31	1.31	1.31						
8	8	216	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31		
9	9	224	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	
12	12	244	1.31	1.31	1.31	1.31	1.31	1.30				
5	5	143	0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	153	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	163	0.87	0.87	0.87	0.87						
6	6	167	0.89	0.91	0.92	0.95	1.06					
10	10	233	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.77
11	11	243	1.58									

INTERMEDIATE REPORT

Chlorophyll a — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

µg/L — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	41	20.00	20.00	20.00	20.00	20.00	20.00				
2	2	47	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	57	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	67	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	77	20.00									
3	3	78	20.85	21.69	22.54	23.38	24.23	25.08	25.92	26.77	27.62	28.46
3	3	88	29.31	30.15	31.00	31.85	32.69	33.54	34.38	35.23	36.08	36.92
3	3	98	37.77	38.62	39.46	40.31	41.15	42.00	42.85	43.69	44.54	45.38
3	3	108	46.23	47.08	47.92	48.77	49.62	50.46	51.31	52.15	53.00	
4	4	117	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	127	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	137	53.00	53.00	53.00	53.00	53.00	53.00				
7	7	172	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	182	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	192	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	202	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00

7	7	212	53.00	53.00	53.00	53.00						
8	8	216	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00		
9	9	224	57.56	62.11	66.67	71.22	75.78	80.33	84.89	89.44	94.00	
12	12	244	78.35	62.70	47.04	31.39	15.74	0.09				
5	5	143	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	153	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	163	53.00	53.00	53.00	53.00						
6	6	167	53.00	53.00	53.00	53.00	53.00					
10	10	233	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
11	11	243	94.00									

INTERMEDIATE REPORT

Temperature — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

deg C — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	11	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	21	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	31	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	41	31.10	31.10	31.10	31.10	31.10	31.10				
2	2	47	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	57	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	67	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	77	31.10									
3	3	78	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	88	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	98	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	108	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
4	4	117	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	127	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	137	31.10	31.10	31.10	31.10	31.10	31.10				
7	7	172	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	182	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	192	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	202	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	212	31.10	31.10	31.10	31.10						
8	8	216	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10		
9	9	224	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
12	12	244	31.32	31.53	31.75	31.97	32.18	32.40				
5	5	143	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	153	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	163	31.10	31.10	31.10	31.10						
6	6	167	31.10	31.10	31.10	31.10	31.10					
10	10	233	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
11	11	243	31.10									

INTERMEDIATE REPORT

Salinity — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

ppt — Baseline Simulation for Lake de Cade Theriot and Hache model

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

1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Reaeration Rate per day — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	11	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	21	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	31	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	41	0.735	0.735	0.735	0.735	0.735	0.735				
2	2	47	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	57	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	67	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	77	0.735									
3	3	78	1.345	1.345	1.345	1.345	1.345	1.346	1.346	1.346	1.346	1.346
3	3	88	1.346	1.346	1.347	1.347	1.347	1.347	1.347	1.347	1.347	1.347
3	3	98	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.349	1.349
3	3	108	1.349	1.349	1.349	1.349	1.349	1.350	1.350	1.350	1.350	
4	4	117	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134
4	4	127	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134	2.134
4	4	137	2.134	2.134	2.134	2.134	2.134	2.134				
7	7	172	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
7	7	182	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017

7	7	192	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
7	7	202	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
7	7	212	1.017	1.017	1.017	1.017						
8	8	216	0.658	0.658	0.658	0.658	0.658	0.658	0.658	0.658		
9	9	224	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	
12	12	244	1.556	1.561	1.567	1.573	1.579	1.584				
5	5	143	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	153	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	163	1.425	1.425	1.425	1.425						
6	6	167	0.451	0.451	0.451	0.451	0.451					
10	10	233	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
11	11	243	0.554									

INTERMEDIATE REPORT

BOD Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	31	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	41	0.22	0.22	0.22	0.22	0.22	0.22				
2	2	47	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	57	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	67	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	77	0.22									
3	3	78	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	88	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	98	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	108	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
4	4	117	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	127	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	137	0.52	0.52	0.52	0.52	0.52	0.52				
7	7	172	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	182	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	192	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	202	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	212	0.52	0.52	0.52	0.52						
8	8	216	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52		
9	9	224	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
12	12	244	0.52	0.53	0.53	0.54	0.54	0.55				
5	5	143	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	153	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	163	0.10	0.10	0.10	0.10						
6	6	167	0.22	0.22	0.22	0.22	0.22					
10	10	233	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11	11	243	0.52									

INTERMEDIATE REPORT

BOD Settling Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Baseline Simulation for Lake de Cade Theriot and Hache model

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

1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Ammonia Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	11	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	21	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	31	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	41	0.47	0.47	0.47	0.47	0.47	0.47				
2	2	47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46
2	2	57	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45
2	2	67	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
2	2	77	0.45									
3	3	78	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
3	3	88	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44
3	3	98	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
3	3	108	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	
4	4	117	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45
4	4	127	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
4	4	137	0.45	0.45	0.45	0.45	0.45	0.45				

7	7	172	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
7	7	182	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
7	7	192	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
7	7	202	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
7	7	212	0.45	0.45	0.45	0.45						
8	8	216	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45		
9	9	224	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
12	12	244	0.46	0.47	0.48	0.49	0.50	0.51				
5	5	143	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
5	5	153	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
5	5	163	0.47	0.47	0.47	0.47						
6	6	167	0.47	0.47	0.47	0.47	0.47					
10	10	233	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
11	11	243	0.47									

INTERMEDIATE REPORT

Sediment Oxygen Demand Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

g/m²/d Baseline Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	11	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	21	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	41	2.41	2.41	2.41	2.41	2.41	2.41				
2	2	47	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	57	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	67	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	77	2.82									
3	3	78	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	88	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	98	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	108	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	
4	4	117	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	127	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	137	4.02	4.02	4.02	4.02	4.02	4.02				
7	7	172	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	182	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	192	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	202	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	212	4.02	4.02	4.02	4.02						
8	8	216	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02		
9	9	224	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	
12	12	244	4.08	4.13	4.19	4.25	4.31	4.37				
5	5	143	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	153	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	163	4.02	4.02	4.02	4.02						
6	6	167	4.02	4.02	4.02	4.02	4.02					
10	10	233	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
11	11	243	4.02									

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

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
			HDWTR	11.459	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0													
1	1	1	20.80	11.522	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
2	1	1	20.70	11.584	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
3	1	1	20.60	11.647	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
4	1	1	20.50	11.710	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
5	1	1	20.40	11.773	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
6	1	1	20.30	11.836	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
7	1	1	20.20	11.898	31.1	0.0	6.5	2.7	0.0	0.8	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
8	1	1	20.10	11.961	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
9	1	1	20.00	12.024	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
10	1	1	19.90	12.087	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
11	1	1	19.80	12.149	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
12	1	1	19.70	12.212	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
13	1	1	19.60	12.275	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
14	1	1	19.50	12.338	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
15	1	1	19.40	12.400	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
16	1	1	19.30	12.463	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
17	1	1	19.20	12.526	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
18	1	1	19.10	12.589	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
19	1	1	19.00	12.652	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
20	1	1	18.90	12.714	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
21	1	1	18.80	12.777	31.1	0.0	6.5	2.7	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
22	1	1	18.70	12.840	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
	WASTELOAD # 023 (LAG480431) ENTERS HERE																								
23	1	1	18.60	12.903	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
24	1	1	18.50	12.966	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
25	1	1	18.40	13.028	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
26	1	1	18.30	13.091	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
27	1	1	18.20	13.154	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
28	1	1	18.10	13.217	31.1	0.0	6.5	2.8	0.0	0.9	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
29	1	1	18.00	13.279	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
30	1	1	17.90	13.342	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
31	1	1	17.80	13.405	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
32	1	1	17.70	13.468	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
33	1	1	17.60	13.530	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
34	1	1	17.50	13.593	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
35	1	1	17.40	13.656	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
36	1	1	17.30	13.719	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
37	1	1	17.20	13.782	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
38	1	1	17.10	13.844	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
39	1	1	17.00	13.907	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
40	1	1	16.90	13.970	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
41	1	1	16.80	14.033	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
42	1	1	16.70	14.095	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
43	1	1	16.60	14.158	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
44	1	1	16.50	14.221	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
45	1	1	16.40	14.284	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
46	1	1	16.30	14.346	31.1	0.0	6.5	2.9	0.0	1.0	0.1	20.0	0.5	1.551	527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41

47	2	2	16.20	14.246	31.1	0.0	6.5	3.1	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
48	2	2	16.10	14.146	31.1	0.0	6.4	3.2	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
49	2	2	16.00	14.045	31.1	0.0	6.4	3.4	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
50	2	2	15.90	13.945	31.1	0.0	6.3	3.6	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
51	2	2	15.80	13.844	31.1	0.0	6.3	3.8	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
52	2	2	15.70	13.744	31.1	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
53	2	2	15.60	13.644	31.1	0.0	6.2	4.1	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
54	2	2	15.50	13.543	31.1	0.0	6.1	4.3	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
55	2	2	15.40	13.443	31.1	0.0	6.1	4.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
56	2	2	15.30	13.342	31.1	0.0	6.1	4.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
57	2	2	15.20	13.242	31.1	0.0	6.0	4.7	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
58	2	2	15.10	13.142	31.1	0.0	6.0	4.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
59	2	2	15.00	13.041	31.1	0.0	5.9	5.0	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
60	2	2	14.90	12.941	31.1	0.0	5.9	5.1	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
61	2	2	14.80	12.840	31.1	0.0	5.8	5.3	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
62	2	2	14.70	12.740	31.1	0.0	5.8	5.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
63	2	2	14.60	12.640	31.1	0.0	5.7	5.5	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
64	2	2	14.50	12.539	31.1	0.0	5.7	5.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
65	2	2	14.40	12.439	31.1	0.0	5.6	5.8	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
66	2	2	14.30	12.338	31.1	0.0	5.6	5.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
67	2	2	14.20	12.238	31.1	0.0	5.5	6.0	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
68	2	2	14.10	12.137	31.1	0.0	5.5	6.1	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
69	2	2	14.00	12.037	31.1	0.0	5.5	6.2	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
70	2	2	13.90	11.937	31.1	0.0	5.4	6.3	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
71	2	2	13.80	11.836	31.1	0.0	5.4	6.4	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
72	2	2	13.70	11.736	31.1	0.0	5.3	6.5	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
73	2	2	13.60	11.635	31.1	0.0	5.3	6.6	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
74	2	2	13.50	11.535	31.1	0.0	5.3	6.6	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
75	2	2	13.40	11.435	31.1	0.0	5.2	6.7	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
76	2	2	13.30	11.334	31.1	0.0	5.2	6.8	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
77	2	2	13.20	11.234	31.1	0.0	5.2	6.8	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
78	3	3	13.10	11.236	31.1	0.0	5.2	6.8	0.0	1.2	0.1	20.8	0.4	1.55	25.0	0.290	0.290	7.4	1.345	0.52	0.00	0.00	0.00	0.45	5.03
79	3	3	13.00	11.238	31.1	0.0	5.2	6.8	0.0	1.2	0.1	21.7	0.4	1.55	25.0	0.290	0.290	7.4	1.345	0.52	0.00	0.00	0.00	0.45	5.03
80	3	3	12.90	11.240	31.1	0.0	5.2	6.8	0.0	1.2	0.1	22.5	0.4	1.55	25.0	0.290	0.290	7.4	1.345	0.52	0.00	0.00	0.00	0.45	5.03
81	3	3	12.80	11.243	31.1	0.0	5.2	6.8	0.0	1.2	0.1	23.4	0.4	1.55	25.0	0.290	0.290	7.4	1.345	0.52	0.00	0.00	0.00	0.45	5.03
82	3	3	12.70	11.245	31.1	0.0	5.2	6.8	0.0	1.2	0.1	24.2	0.4	1.55	25.0	0.290	0.290	7.4	1.345	0.52	0.00	0.00	0.00	0.45	5.03
83	3	3	12.60	11.247	31.1	0.0	5.1	6.8	0.0	1.2	0.1	25.1	0.4	1.55	25.0	0.290	0.290	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
84	3	3	12.50	11.249	31.1	0.0	5.1	6.8	0.0	1.2	0.1	25.9	0.4	1.55	25.0	0.290	0.290	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
85	3	3	12.40	11.251	31.1	0.0	5.1	6.8	0.0	1.2	0.1	26.8	0.4	1.55	25.0	0.290	0.290	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
86	3	3	12.30	11.253	31.1	0.0	5.1	6.8	0.0	1.2	0.1	27.6	0.4	1.55	25.0	0.290	0.290	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
87	3	3	12.20	11.256	31.1	0.0	5.1	6.8	0.0	1.2	0.1	28.5	0.4	1.55	25.0	0.290	0.290	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
88	3	3	12.10	11.258	31.1	0.0	5.1	6.8	0.0	1.2	0.1	29.3	0.4	1.55	25.0	0.291	0.291	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
89	3	3	12.00	11.260	31.1	0.0	5.1	6.8	0.0	1.2	0.1	30.2	0.4	1.55	25.0	0.291	0.291	7.4	1.346	0.52	0.00	0.00	0.00	0.45	5.03
90	3	3	11.90	11.262	31.1	0.0	5.1	6.8	0.0	1.2	0.1	31.0	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.45	5.03
91	3	3	11.80	11.264	31.1	0.0	5.1	6.8	0.0	1.2	0.1	31.8	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.45	5.03
92	3	3	11.70	11.267	31.1	0.0	5.1	6.8	0.0	1.2	0.1	32.7	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.45	5.03

93	3	3	11.60	11.269	31.1	0.0	5.1	6.8	0.0	1.2	0.1	33.5	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.44	5.03
94	3	3	11.50	11.271	31.1	0.0	5.1	6.8	0.0	1.2	0.1	34.4	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.44	5.03
95	3	3	11.40	11.273	31.1	0.0	5.1	6.8	0.0	1.2	0.1	35.2	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.44	5.03
96	3	3	11.30	11.275	31.1	0.0	5.1	6.8	0.0	1.2	0.1	36.1	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.44	5.03
97	3	3	11.20	11.277	31.1	0.0	5.1	6.8	0.0	1.2	0.1	36.9	0.4	1.55	25.0	0.291	0.291	7.4	1.347	0.52	0.00	0.00	0.00	0.44	5.03
98	3	3	11.10	11.280	31.1	0.0	5.1	6.8	0.0	1.2	0.1	37.8	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
99	3	3	11.00	11.282	31.1	0.0	5.1	6.8	0.0	1.2	0.1	38.6	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
100	3	3	10.90	11.284	31.1	0.0	5.1	6.8	0.0	1.2	0.1	39.5	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
101	3	3	10.80	11.286	31.1	0.0	5.1	6.8	0.0	1.2	0.1	40.3	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
102	3	3	10.70	11.288	31.1	0.0	5.1	6.8	0.0	1.2	0.1	41.2	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
103	3	3	10.60	11.290	31.1	0.0	5.1	6.8	0.0	1.2	0.1	42.0	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
104	3	3	10.50	11.293	31.1	0.0	5.1	6.7	0.0	1.2	0.1	42.8	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
105	3	3	10.40	11.295	31.1	0.0	5.1	6.7	0.0	1.2	0.1	43.7	0.4	1.55	25.0	0.291	0.291	7.4	1.348	0.52	0.00	0.00	0.00	0.44	5.03
106	3	3	10.30	11.297	31.1	0.0	5.1	6.7	0.0	1.2	0.1	44.5	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
107	3	3	10.20	11.299	31.1	0.0	5.1	6.7	0.0	1.2	0.1	45.4	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
108	3	3	10.10	11.301	31.1	0.0	5.1	6.7	0.0	1.2	0.1	46.2	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
109	3	3	10.00	11.304	31.1	0.0	5.1	6.7	0.0	1.2	0.1	47.1	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
110	3	3	9.90	11.306	31.1	0.0	5.1	6.7	0.0	1.2	0.1	47.9	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
111	3	3	9.80	11.308	31.1	0.0	5.1	6.7	0.0	1.2	0.1	48.8	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
112	3	3	9.70	11.310	31.1	0.0	5.1	6.7	0.0	1.2	0.1	49.6	0.4	1.55	25.0	0.292	0.292	7.4	1.349	0.52	0.00	0.00	0.00	0.44	5.03
113	3	3	9.60	11.312	31.1	0.0	5.1	6.7	0.0	1.2	0.1	50.5	0.4	1.55	25.0	0.292	0.292	7.4	1.350	0.52	0.00	0.00	0.00	0.44	5.03
114	3	3	9.50	11.314	31.1	0.0	5.1	6.7	0.0	1.2	0.1	51.3	0.4	1.55	25.0	0.292	0.292	7.4	1.350	0.52	0.00	0.00	0.00	0.44	5.03
115	3	3	9.40	11.317	31.1	0.0	5.1	6.7	0.0	1.2	0.1	52.2	0.4	1.55	25.0	0.292	0.292	7.4	1.350	0.52	0.00	0.00	0.00	0.44	5.03
116	3	3	9.30	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.4	1.55	25.0	0.292	0.292	7.4	1.350	0.52	0.00	0.00	0.00	0.44	5.03
117	4	4	9.20	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.44	4.02
118	4	4	9.10	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.44	4.02
119	4	4	9.00	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.44	4.02
120	4	4	8.90	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
121	4	4	8.80	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
122	4	4	8.70	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
123	4	4	8.60	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
124	4	4	8.50	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
125	4	4	8.40	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
126	4	4	8.30	11.319	31.1	0.0	5.1	6.7	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
127	4	4	8.20	11.319	31.1	0.0	5.1	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
128	4	4	8.10	11.319	31.1	0.0	5.1	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
129	4	4	8.00	11.319	31.1	0.0	5.1	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
130	4	4	7.90	11.319	31.1	0.0	5.1	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
131	4	4	7.80	11.319	31.1	0.0	5.1	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
132	4	4	7.70	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
133	4	4	7.60	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
134	4	4	7.50	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
135	4	4	7.40	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
136	4	4	7.30	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
137	4	4	7.20	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
138	4	4	7.10	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
139	4	4	7.00	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
140	4	4	6.90	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
141	4	4	6.80	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02
142	4	4	6.70	11.319	31.1	0.0	5.2	6.6	0.0	1.2	0.1	53.0	0.3	1.55	10.0	0.730	0.730	7.4	2.134	0.52	0.00	0.00	0.00	0.45	4.02

TRIBUTARY # 143 (Lake Theriot) ENTERS HERE

172	7	7	6.60	11.822	31.1	0.0	5.3	6.5	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
173	7	7	6.50	11.822	31.1	0.0	5.3	6.4	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
174	7	7	6.40	11.822	31.1	0.0	5.3	6.4	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

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	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
175	7	7	6.30	11.822	31.1	0.0	5.3	6.4	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
176	7	7	6.20	11.822	31.1	0.0	5.3	6.4	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
177	7	7	6.10	11.822	31.1	0.0	5.3	6.4	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
178	7	7	6.00	11.822	31.1	0.0	5.3	6.3	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
179	7	7	5.90	11.822	31.1	0.0	5.3	6.3	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
180	7	7	5.80	11.822	31.1	0.0	5.3	6.3	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
181	7	7	5.70	11.822	31.1	0.0	5.3	6.3	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
182	7	7	5.60	11.822	31.1	0.0	5.3	6.2	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
183	7	7	5.50	11.822	31.1	0.0	5.3	6.2	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
184	7	7	5.40	11.822	31.1	0.0	5.3	6.2	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
185	7	7	5.30	11.822	31.1	0.0	5.3	6.2	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
186	7	7	5.20	11.822	31.1	0.0	5.3	6.2	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
187	7	7	5.10	11.822	31.1	0.0	5.3	6.1	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
188	7	7	5.00	11.822	31.1	0.0	5.3	6.1	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
189	7	7	4.90	11.822	31.1	0.0	5.4	6.1	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
190	7	7	4.80	11.822	31.1	0.0	5.4	6.1	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
191	7	7	4.70	11.822	31.1	0.0	5.4	6.0	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
192	7	7	4.60	11.822	31.1	0.0	5.4	6.0	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
193	7	7	4.50	11.822	31.1	0.0	5.4	6.0	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
194	7	7	4.40	11.822	31.1	0.0	5.4	6.0	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
195	7	7	4.30	11.822	31.1	0.0	5.4	6.0	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
196	7	7	4.20	11.822	31.1	0.0	5.4	5.9	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
197	7	7	4.10	11.822	31.1	0.0	5.4	5.9	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
198	7	7	4.00	11.822	31.1	0.0	5.4	5.9	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
199	7	7	3.90	11.822	31.1	0.0	5.4	5.9	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
200	7	7	3.80	11.822	31.1	0.0	5.4	5.9	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
201	7	7	3.70	11.822	31.1	0.0	5.4	5.8	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
202	7	7	3.60	11.822	31.1	0.0	5.4	5.8	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
203	7	7	3.50	11.822	31.1	0.0	5.4	5.8	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
204	7	7	3.40	11.822	31.1	0.0	5.4	5.8	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
205	7	7	3.30	11.822	31.1	0.0	5.4	5.7	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
206	7	7	3.20	11.822	31.1	0.0	5.4	5.7	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
207	7	7	3.10	11.822	31.1	0.0	5.4	5.7	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
208	7	7	3.00	11.822	31.1	0.0	5.4	5.7	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
209	7	7	2.90	11.822	31.1	0.0	5.4	5.7	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
210	7	7	2.80	11.822	31.1	0.0	5.4	5.6	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
211	7	7	2.70	11.822	31.1	0.0	5.5	5.6	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
212	7	7	2.60	11.822	31.1	0.0	5.5	5.6	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
213	7	7	2.50	11.822	31.1	0.0	5.5	5.6	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
214	7	7	2.40	11.822	31.1	0.0	5.5	5.6	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
215	7	7	2.30	11.822	31.1	0.0	5.5	5.5	0.0	1.2	0.1	53.0	0.1	1.55	46.0	0.166	0.166	7.4	1.017	0.52	0.00	0.00	0.00	0.45	4.02
216	8	8	2.20	11.822	31.1	0.0	5.5	5.5	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02

217	8	8	2.10	11.822	31.1	0.0	5.5	5.4	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
218	8	8	2.00	11.822	31.1	0.0	5.5	5.4	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
219	8	8	1.90	11.822	31.1	0.0	5.5	5.4	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
220	8	8	1.80	11.822	31.1	0.0	5.5	5.3	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
221	8	8	1.70	11.822	31.1	0.0	5.5	5.3	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
222	8	8	1.60	11.822	31.1	0.0	5.5	5.2	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
223	8	8	1.50	11.822	31.1	0.0	5.5	5.2	0.0	1.2	0.1	53.0	0.1	1.55	110.0	0.069	0.069	7.4	0.658	0.52	0.00	0.00	0.00	0.45	4.02
224	9	9	1.40	11.822	31.1	0.0	5.5	5.2	0.0	1.2	0.1	57.6	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
225	9	9	1.30	11.822	31.1	0.0	5.5	5.2	0.0	1.2	0.1	62.1	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
226	9	9	1.20	11.822	31.1	0.0	5.5	5.1	0.0	1.2	0.1	66.7	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
227	9	9	1.10	11.822	31.1	0.0	5.5	5.1	0.0	1.2	0.1	71.2	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
228	9	9	1.00	11.822	31.1	0.0	5.6	5.1	0.0	1.2	0.1	75.8	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
229	9	9	0.90	11.822	31.1	0.0	5.6	5.1	0.0	1.2	0.1	80.3	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
230	9	9	0.80	11.822	31.1	0.0	5.6	5.1	0.0	1.2	0.1	84.9	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
231	9	9	0.70	11.822	31.1	0.0	5.6	5.1	0.0	1.2	0.1	89.4	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
232	9	9	0.60	11.822	31.1	0.0	5.6	5.1	0.0	1.2	0.1	94.0	0.1	1.55	30.0	0.254	0.254	7.4	1.259	0.52	0.00	0.00	0.00	0.45	4.02
TRIBUTARY # 233 (Lake Hache) ENTERS HERE																									
244	12	12	0.50	11.935	31.3	0.0	5.7	5.2	0.0	1.2	0.1	78.3	0.1	1.55	20.0	0.385	0.385	7.4	1.556	0.52	0.00	0.00	0.00	0.46	4.08
245	12	12	0.40	11.935	31.5	0.0	5.7	5.2	0.0	1.2	0.1	62.7	0.1	1.55	20.0	0.385	0.385	7.4	1.561	0.53	0.00	0.00	0.00	0.47	4.13
246	12	12	0.30	11.935	31.8	0.0	5.7	5.2	0.0	1.2	0.1	47.0	0.1	1.55	20.0	0.385	0.385	7.3	1.567	0.53	0.00	0.00	0.00	0.48	4.19
247	12	12	0.20	11.935	32.0	0.0	5.7	5.2	0.0	1.2	0.1	31.4	0.1	1.55	20.0	0.385	0.385	7.3	1.573	0.54	0.00	0.00	0.00	0.49	4.25
248	12	12	0.10	11.935	32.2	0.0	5.7	5.2	0.0	1.2	0.1	15.7	0.1	1.55	20.0	0.385	0.385	7.3	1.579	0.54	0.00	0.00	0.00	0.50	4.31
249	12	12	0.00	11.935	32.4	0.0	5.7	5.2	0.0	1.2	0.1	0.1	0.1	1.55	20.0	0.385	0.385	7.3	1.584	0.55	0.00	0.00	0.00	0.51	4.37

EXPANDED CAPSULE SUMMARY FOR Lake Theriot

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN 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
143	5	5	2.80	0.023	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
144	5	5	2.70	0.043	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
145	5	5	2.60	0.063	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
146	5	5	2.50	0.083	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
147	5	5	2.40	0.103	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
148	5	5	2.30	0.123	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
149	5	5	2.20	0.143	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
150	5	5	2.10	0.163	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
151	5	5	2.00	0.183	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
152	5	5	1.90	0.203	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
153	5	5	1.80	0.223	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
154	5	5	1.70	0.243	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
155	5	5	1.60	0.263	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
156	5	5	1.50	0.283	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
157	5	5	1.40	0.303	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
158	5	5	1.30	0.323	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
159	5	5	1.20	0.343	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
160	5	5	1.10	0.363	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
161	5	5	1.00	0.383	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
162	5	5	0.90	0.403	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
163	5	5	0.80	0.423	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
164	5	5	0.70	0.443	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
165	5	5	0.60	0.463	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02

166	5	5	0.50	0.483	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
167	6	6	0.40	0.487	31.1	0.0	6.8	4.0	0.0	0.8	0.0	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
168	6	6	0.30	0.491	31.1	0.0	6.9	4.2	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
169	6	6	0.20	0.495	31.1	0.0	7.0	4.5	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
170	6	6	0.10	0.499	31.1	0.0	7.0	4.8	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
171	6	6	0.00	0.503	31.1	0.0	6.7	5.3	0.0	1.0	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02

EXPANDED CAPSULE SUMMARY FOR Lake Hache

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	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
233	10	10	1.00	0.010	31.1	0.0	8.7	25.3	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
234	10	10	0.90	0.020	31.1	0.0	8.7	24.9	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
235	10	10	0.80	0.030	31.1	0.0	8.7	24.9	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
236	10	10	0.70	0.040	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
237	10	10	0.60	0.050	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
238	10	10	0.50	0.060	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
239	10	10	0.40	0.069	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
240	10	10	0.30	0.079	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
241	10	10	0.20	0.089	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
242	10	10	0.10	0.099	31.1	0.0	8.7	21.7	0.0	1.7	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
243	11	11	0.00	0.113	31.1	0.0	6.7	12.7	0.0	1.5	0.1	94.0	0.1	1.55	50.0	0.001	0.001	7.4	0.554	0.52	0.00	0.00	0.00	0.47	4.02

SPECIAL REPORT: Lake de Cade

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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 mg/L	TOTN mg/L	PHOS µg/L	CHL A **	MACRO	COLI #/100mL	NCM *
1	20.800	31.10	0.0	0.0	0.0	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.0	0.0	0.	0.00
2	20.700	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.0	0.0	0.	0.00
3	20.600	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.91	0.00	20.0	0.0	0.	0.00
4	20.500	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
5	20.400	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
6	20.300	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
7	20.200	31.10	0.0	0.0	0.0	6.49	2.74	0.00	2.74	0.00	0.85	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
8	20.100	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
9	20.000	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
10	19.900	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
11	19.800	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
12	19.700	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
13	19.600	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
14	19.500	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.0	0.0	0.	0.00
15	19.400	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.0	0.0	0.	0.00
16	19.300	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.89	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
17	19.200	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
18	19.100	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
19	19.000	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
20	18.900	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
21	18.800	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
22	18.700	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
23	18.600	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00
24	18.500	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00
25	18.400	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00

26	18.300	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
27	18.200	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
28	18.100	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
29	18.000	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
30	17.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
31	17.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
32	17.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
33	17.600	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
34	17.500	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
35	17.400	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
36	17.300	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
37	17.200	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
38	17.100	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
39	17.000	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
40	16.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
41	16.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
42	16.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
43	16.600	31.10	0.0	0.0	0.0	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
44	16.500	31.10	0.0	0.0	0.0	6.54	2.78	0.00	2.78	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
45	16.400	31.10	0.0	0.0	0.0	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
46	16.300	31.10	0.0	0.0	0.0	6.52	2.87	0.00	2.87	0.00	1.02	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
47	16.200	31.10	0.0	0.0	0.0	6.48	3.05	0.00	3.05	0.00	1.03	0.06	0.00	1.09	0.00	20.0	0.0	0.	0.00
48	16.100	31.10	0.0	0.0	0.0	6.43	3.24	0.00	3.24	0.00	1.03	0.06	0.00	1.10	0.00	20.0	0.0	0.	0.00
49	16.000	31.10	0.0	0.0	0.0	6.39	3.43	0.00	3.43	0.00	1.04	0.07	0.00	1.11	0.00	20.0	0.0	0.	0.00
50	15.900	31.10	0.0	0.0	0.0	6.34	3.60	0.00	3.60	0.00	1.05	0.07	0.00	1.12	0.00	20.0	0.0	0.	0.00
51	15.800	31.10	0.0	0.0	0.0	6.29	3.78	0.00	3.78	0.00	1.05	0.07	0.00	1.12	0.00	20.0	0.0	0.	0.00
52	15.700	31.10	0.0	0.0	0.0	6.25	3.95	0.00	3.95	0.00	1.06	0.07	0.00	1.13	0.00	20.0	0.0	0.	0.00
53	15.600	31.10	0.0	0.0	0.0	6.20	4.11	0.00	4.11	0.00	1.06	0.08	0.00	1.14	0.00	20.0	0.0	0.	0.00
54	15.500	31.10	0.0	0.0	0.0	6.15	4.27	0.00	4.27	0.00	1.07	0.08	0.00	1.15	0.00	20.0	0.0	0.	0.00
55	15.400	31.10	0.0	0.0	0.0	6.10	4.43	0.00	4.43	0.00	1.08	0.08	0.00	1.16	0.00	20.0	0.0	0.	0.00
56	15.300	31.10	0.0	0.0	0.0	6.05	4.58	0.00	4.58	0.00	1.08	0.08	0.00	1.16	0.00	20.0	0.0	0.	0.00
57	15.200	31.10	0.0	0.0	0.0	6.00	4.73	0.00	4.73	0.00	1.09	0.08	0.00	1.17	0.00	20.0	0.0	0.	0.00
58	15.100	31.10	0.0	0.0	0.0	5.95	4.87	0.00	4.87	0.00	1.09	0.09	0.00	1.18	0.00	20.0	0.0	0.	0.00
59	15.000	31.10	0.0	0.0	0.0	5.91	5.01	0.00	5.01	0.00	1.10	0.09	0.00	1.19	0.00	20.0	0.0	0.	0.00
60	14.900	31.10	0.0	0.0	0.0	5.86	5.14	0.00	5.14	0.00	1.11	0.09	0.00	1.20	0.00	20.0	0.0	0.	0.00
61	14.800	31.10	0.0	0.0	0.0	5.81	5.27	0.00	5.27	0.00	1.11	0.09	0.00	1.20	0.00	20.0	0.0	0.	0.00
62	14.700	31.10	0.0	0.0	0.0	5.76	5.40	0.00	5.40	0.00	1.12	0.09	0.00	1.21	0.00	20.0	0.0	0.	0.00
63	14.600	31.10	0.0	0.0	0.0	5.72	5.52	0.00	5.52	0.00	1.12	0.09	0.00	1.22	0.00	20.0	0.0	0.	0.00
64	14.500	31.10	0.0	0.0	0.0	5.67	5.64	0.00	5.64	0.00	1.13	0.09	0.00	1.22	0.00	20.0	0.0	0.	0.00
65	14.400	31.10	0.0	0.0	0.0	5.63	5.76	0.00	5.76	0.00	1.14	0.10	0.00	1.23	0.00	20.0	0.0	0.	0.00
66	14.300	31.10	0.0	0.0	0.0	5.59	5.87	0.00	5.87	0.00	1.14	0.10	0.00	1.24	0.00	20.0	0.0	0.	0.00
67	14.200	31.10	0.0	0.0	0.0	5.54	5.98	0.00	5.98	0.00	1.15	0.10	0.00	1.25	0.00	20.0	0.0	0.	0.00
68	14.100	31.10	0.0	0.0	0.0	5.50	6.08	0.00	6.08	0.00	1.15	0.10	0.00	1.25	0.00	20.0	0.0	0.	0.00
69	14.000	31.10	0.0	0.0	0.0	5.46	6.19	0.00	6.19	0.00	1.16	0.10	0.00	1.26	0.00	20.0	0.0	0.	0.00
70	13.900	31.10	0.0	0.0	0.0	5.42	6.29	0.00	6.29	0.00	1.17	0.10	0.00	1.27	0.00	20.0	0.0	0.	0.00
71	13.800	31.10	0.0	0.0	0.0	5.38	6.38	0.00	6.38	0.00	1.17	0.10	0.00	1.27	0.00	20.0	0.0	0.	0.00
72	13.700	31.10	0.0	0.0	0.0	5.35	6.47	0.00	6.47	0.00	1.18	0.10	0.00	1.28	0.00	20.0	0.0	0.	0.00
73	13.600	31.10	0.0	0.0	0.0	5.31	6.56	0.00	6.56	0.00	1.18	0.10	0.00	1.29	0.00	20.0	0.0	0.	0.00
74	13.500	31.10	0.0	0.0	0.0	5.27	6.65	0.00	6.65	0.00	1.19	0.10	0.00	1.29	0.00	20.0	0.0	0.	0.00
75	13.400	31.10	0.0	0.0	0.0	5.24	6.73	0.00	6.73	0.00	1.20	0.10	0.00	1.30	0.00	20.0	0.0	0.	0.00

76	13.300	31.10	0.0	0.0	0.0	5.21	6.80	0.00	6.80	0.00	1.20	0.10	0.00	1.31	0.00	20.0	0.0	0.	0.00
77	13.200	31.10	0.0	0.0	0.0	5.19	6.85	0.00	6.85	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00
78	13.100	31.10	0.0	0.0	0.0	5.18	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	20.8	0.0	0.	0.00
79	13.000	31.10	0.0	0.0	0.0	5.17	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	21.7	0.0	0.	0.00
80	12.900	31.10	0.0	0.0	0.0	5.17	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	22.5	0.0	0.	0.00
81	12.800	31.10	0.0	0.0	0.0	5.16	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.31	0.00	23.4	0.0	0.	0.00
82	12.700	31.10	0.0	0.0	0.0	5.15	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.31	0.00	24.2	0.0	0.	0.00
83	12.600	31.10	0.0	0.0	0.0	5.14	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.32	0.00	25.1	0.0	0.	0.00
84	12.500	31.10	0.0	0.0	0.0	5.14	6.82	0.00	6.82	0.00	1.21	0.11	0.00	1.32	0.00	25.9	0.0	0.	0.00
85	12.400	31.10	0.0	0.0	0.0	5.13	6.82	0.00	6.82	0.00	1.21	0.11	0.00	1.32	0.00	26.8	0.0	0.	0.00
86	12.300	31.10	0.0	0.0	0.0	5.12	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	27.6	0.0	0.	0.00
87	12.200	31.10	0.0	0.0	0.0	5.12	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	28.5	0.0	0.	0.00
88	12.100	31.10	0.0	0.0	0.0	5.11	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	29.3	0.0	0.	0.00
89	12.000	31.10	0.0	0.0	0.0	5.11	6.80	0.00	6.80	0.00	1.21	0.11	0.00	1.32	0.00	30.2	0.0	0.	0.00
90	11.900	31.10	0.0	0.0	0.0	5.10	6.80	0.00	6.80	0.00	1.22	0.11	0.00	1.32	0.00	31.0	0.0	0.	0.00
91	11.800	31.10	0.0	0.0	0.0	5.10	6.80	0.00	6.80	0.00	1.22	0.11	0.00	1.32	0.00	31.8	0.0	0.	0.00
92	11.700	31.10	0.0	0.0	0.0	5.09	6.79	0.00	6.79	0.00	1.22	0.11	0.00	1.32	0.00	32.7	0.0	0.	0.00
93	11.600	31.10	0.0	0.0	0.0	5.09	6.79	0.00	6.79	0.00	1.22	0.11	0.00	1.32	0.00	33.5	0.0	0.	0.00
94	11.500	31.10	0.0	0.0	0.0	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	34.4	0.0	0.	0.00
95	11.400	31.10	0.0	0.0	0.0	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	35.2	0.0	0.	0.00
96	11.300	31.10	0.0	0.0	0.0	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	36.1	0.0	0.	0.00
97	11.200	31.10	0.0	0.0	0.0	5.08	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	36.9	0.0	0.	0.00
98	11.100	31.10	0.0	0.0	0.0	5.07	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	37.8	0.0	0.	0.00
99	11.000	31.10	0.0	0.0	0.0	5.07	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	38.6	0.0	0.	0.00
100	10.900	31.10	0.0	0.0	0.0	5.07	6.76	0.00	6.76	0.00	1.22	0.11	0.00	1.33	0.00	39.5	0.0	0.	0.00
101	10.800	31.10	0.0	0.0	0.0	5.07	6.76	0.00	6.76	0.00	1.23	0.11	0.00	1.33	0.00	40.3	0.0	0.	0.00
102	10.700	31.10	0.0	0.0	0.0	5.07	6.76	0.00	6.76	0.00	1.23	0.11	0.00	1.33	0.00	41.2	0.0	0.	0.00
103	10.600	31.10	0.0	0.0	0.0	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.33	0.00	42.0	0.0	0.	0.00
104	10.500	31.10	0.0	0.0	0.0	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.33	0.00	42.8	0.0	0.	0.00
105	10.400	31.10	0.0	0.0	0.0	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.34	0.00	43.7	0.0	0.	0.00
106	10.300	31.10	0.0	0.0	0.0	5.06	6.74	0.00	6.74	0.00	1.23	0.11	0.00	1.34	0.00	44.5	0.0	0.	0.00
107	10.200	31.10	0.0	0.0	0.0	5.06	6.74	0.00	6.74	0.00	1.23	0.11	0.00	1.34	0.00	45.4	0.0	0.	0.00
108	10.100	31.10	0.0	0.0	0.0	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	46.2	0.0	0.	0.00
109	10.000	31.10	0.0	0.0	0.0	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	47.1	0.0	0.	0.00
110	9.900	31.10	0.0	0.0	0.0	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	47.9	0.0	0.	0.00
111	9.800	31.10	0.0	0.0	0.0	5.07	6.72	0.00	6.72	0.00	1.23	0.11	0.00	1.34	0.00	48.8	0.0	0.	0.00
112	9.700	31.10	0.0	0.0	0.0	5.07	6.72	0.00	6.72	0.00	1.23	0.11	0.00	1.34	0.00	49.6	0.0	0.	0.00
113	9.600	31.10	0.0	0.0	0.0	5.07	6.72	0.00	6.72	0.00	1.24	0.11	0.00	1.34	0.00	50.5	0.0	0.	0.00
114	9.500	31.10	0.0	0.0	0.0	5.07	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	51.3	0.0	0.	0.00
115	9.400	31.10	0.0	0.0	0.0	5.07	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	52.2	0.0	0.	0.00
116	9.300	31.10	0.0	0.0	0.0	5.08	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
117	9.200	31.10	0.0	0.0	0.0	5.08	6.70	0.00	6.70	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
118	9.100	31.10	0.0	0.0	0.0	5.09	6.70	0.00	6.70	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
119	9.000	31.10	0.0	0.0	0.0	5.09	6.69	0.00	6.69	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
120	8.900	31.10	0.0	0.0	0.0	5.10	6.68	0.00	6.68	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
121	8.800	31.10	0.0	0.0	0.0	5.10	6.68	0.00	6.68	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
122	8.700	31.10	0.0	0.0	0.0	5.11	6.67	0.00	6.67	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
123	8.600	31.10	0.0	0.0	0.0	5.11	6.67	0.00	6.67	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
124	8.500	31.10	0.0	0.0	0.0	5.12	6.66	0.00	6.66	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
125	8.400	31.10	0.0	0.0	0.0	5.12	6.66	0.00	6.66	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00

126	8.300	31.10	0.0	0.0	0.0	5.13	6.65	0.00	6.65	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
127	8.200	31.10	0.0	0.0	0.0	5.13	6.65	0.00	6.65	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
128	8.100	31.10	0.0	0.0	0.0	5.14	6.64	0.00	6.64	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
129	8.000	31.10	0.0	0.0	0.0	5.14	6.64	0.00	6.64	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
130	7.900	31.10	0.0	0.0	0.0	5.14	6.63	0.00	6.63	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
131	7.800	31.10	0.0	0.0	0.0	5.15	6.62	0.00	6.62	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
132	7.700	31.10	0.0	0.0	0.0	5.15	6.62	0.00	6.62	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
133	7.600	31.10	0.0	0.0	0.0	5.16	6.61	0.00	6.61	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
134	7.500	31.10	0.0	0.0	0.0	5.16	6.61	0.00	6.61	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
135	7.400	31.10	0.0	0.0	0.0	5.17	6.60	0.00	6.60	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
136	7.300	31.10	0.0	0.0	0.0	5.17	6.60	0.00	6.60	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
137	7.200	31.10	0.0	0.0	0.0	5.18	6.59	0.00	6.59	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
138	7.100	31.10	0.0	0.0	0.0	5.18	6.59	0.00	6.59	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
139	7.000	31.10	0.0	0.0	0.0	5.19	6.58	0.00	6.58	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
140	6.900	31.10	0.0	0.0	0.0	5.19	6.58	0.00	6.58	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
141	6.800	31.10	0.0	0.0	0.0	5.20	6.57	0.00	6.57	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
142	6.700	31.10	0.0	0.0	0.0	5.20	6.57	0.00	6.57	0.00	1.24	0.11	0.00	1.34	0.00	53.0	0.0	0.	0.00
172	6.600	31.10	0.0	0.0	0.0	5.29	6.47	0.00	6.47	0.00	1.22	0.10	0.00	1.33	0.00	53.0	0.0	0.	0.00
173	6.500	31.10	0.0	0.0	0.0	5.29	6.45	0.00	6.45	0.00	1.22	0.10	0.00	1.33	0.00	53.0	0.0	0.	0.00
174	6.400	31.10	0.0	0.0	0.0	5.30	6.42	0.00	6.42	0.00	1.22	0.10	0.00	1.33	0.00	53.0	0.0	0.	0.00
175	6.300	31.10	0.0	0.0	0.0	5.30	6.40	0.00	6.40	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
176	6.200	31.10	0.0	0.0	0.0	5.30	6.38	0.00	6.38	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
177	6.100	31.10	0.0	0.0	0.0	5.31	6.36	0.00	6.36	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
178	6.000	31.10	0.0	0.0	0.0	5.31	6.33	0.00	6.33	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
179	5.900	31.10	0.0	0.0	0.0	5.31	6.31	0.00	6.31	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
180	5.800	31.10	0.0	0.0	0.0	5.32	6.29	0.00	6.29	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
181	5.700	31.10	0.0	0.0	0.0	5.32	6.26	0.00	6.26	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
182	5.600	31.10	0.0	0.0	0.0	5.32	6.24	0.00	6.24	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
183	5.500	31.10	0.0	0.0	0.0	5.33	6.22	0.00	6.22	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
184	5.400	31.10	0.0	0.0	0.0	5.33	6.20	0.00	6.20	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
185	5.300	31.10	0.0	0.0	0.0	5.34	6.17	0.00	6.17	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
186	5.200	31.10	0.0	0.0	0.0	5.34	6.15	0.00	6.15	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
187	5.100	31.10	0.0	0.0	0.0	5.34	6.13	0.00	6.13	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
188	5.000	31.10	0.0	0.0	0.0	5.35	6.11	0.00	6.11	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
189	4.900	31.10	0.0	0.0	0.0	5.35	6.09	0.00	6.09	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
190	4.800	31.10	0.0	0.0	0.0	5.36	6.06	0.00	6.06	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
191	4.700	31.10	0.0	0.0	0.0	5.36	6.04	0.00	6.04	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
192	4.600	31.10	0.0	0.0	0.0	5.36	6.02	0.00	6.02	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
193	4.500	31.10	0.0	0.0	0.0	5.37	6.00	0.00	6.00	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
194	4.400	31.10	0.0	0.0	0.0	5.37	5.98	0.00	5.98	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
195	4.300	31.10	0.0	0.0	0.0	5.38	5.96	0.00	5.96	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
196	4.200	31.10	0.0	0.0	0.0	5.38	5.94	0.00	5.94	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
197	4.100	31.10	0.0	0.0	0.0	5.39	5.91	0.00	5.91	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
198	4.000	31.10	0.0	0.0	0.0	5.39	5.89	0.00	5.89	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
199	3.900	31.10	0.0	0.0	0.0	5.39	5.87	0.00	5.87	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
200	3.800	31.10	0.0	0.0	0.0	5.40	5.85	0.00	5.85	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
201	3.700	31.10	0.0	0.0	0.0	5.40	5.83	0.00	5.83	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
202	3.600	31.10	0.0	0.0	0.0	5.41	5.81	0.00	5.81	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
203	3.500	31.10	0.0	0.0	0.0	5.41	5.79	0.00	5.79	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
204	3.400	31.10	0.0	0.0	0.0	5.42	5.77	0.00	5.77	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00

205	3.300	31.10	0.0	0.0	0.0	5.42	5.75	0.00	5.75	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
206	3.200	31.10	0.0	0.0	0.0	5.43	5.73	0.00	5.73	0.00	1.22	0.10	0.00	1.32	0.00	53.0	0.0	0.	0.00
207	3.100	31.10	0.0	0.0	0.0	5.43	5.71	0.00	5.71	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
208	3.000	31.10	0.0	0.0	0.0	5.44	5.68	0.00	5.68	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
209	2.900	31.10	0.0	0.0	0.0	5.44	5.66	0.00	5.66	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
210	2.800	31.10	0.0	0.0	0.0	5.45	5.64	0.00	5.64	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
211	2.700	31.10	0.0	0.0	0.0	5.45	5.62	0.00	5.62	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
212	2.600	31.10	0.0	0.0	0.0	5.46	5.60	0.00	5.60	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
213	2.500	31.10	0.0	0.0	0.0	5.46	5.58	0.00	5.58	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
214	2.400	31.10	0.0	0.0	0.0	5.47	5.56	0.00	5.56	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
215	2.300	31.10	0.0	0.0	0.0	5.47	5.54	0.00	5.54	0.00	1.22	0.10	0.00	1.31	0.00	53.0	0.0	0.	0.00
216	2.200	31.10	0.0	0.0	0.0	5.47	5.50	0.00	5.50	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
217	2.100	31.10	0.0	0.0	0.0	5.48	5.45	0.00	5.45	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
218	2.000	31.10	0.0	0.0	0.0	5.48	5.40	0.00	5.40	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
219	1.900	31.10	0.0	0.0	0.0	5.48	5.36	0.00	5.36	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
220	1.800	31.10	0.0	0.0	0.0	5.48	5.31	0.00	5.31	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
221	1.700	31.10	0.0	0.0	0.0	5.49	5.26	0.00	5.26	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
222	1.600	31.10	0.0	0.0	0.0	5.49	5.22	0.00	5.22	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
223	1.500	31.10	0.0	0.0	0.0	5.49	5.18	0.00	5.18	0.00	1.22	0.09	0.00	1.31	0.00	53.0	0.0	0.	0.00
224	1.400	31.10	0.0	0.0	0.0	5.50	5.16	0.00	5.16	0.00	1.22	0.09	0.00	1.31	0.00	57.6	0.0	0.	0.00
225	1.300	31.10	0.0	0.0	0.0	5.51	5.15	0.00	5.15	0.00	1.22	0.09	0.00	1.31	0.00	62.1	0.0	0.	0.00
226	1.200	31.10	0.0	0.0	0.0	5.52	5.14	0.00	5.14	0.00	1.22	0.09	0.00	1.31	0.00	66.7	0.0	0.	0.00
227	1.100	31.10	0.0	0.0	0.0	5.54	5.13	0.00	5.13	0.00	1.21	0.09	0.00	1.31	0.00	71.2	0.0	0.	0.00
228	1.000	31.10	0.0	0.0	0.0	5.55	5.12	0.00	5.12	0.00	1.21	0.09	0.00	1.31	0.00	75.8	0.0	0.	0.00
229	0.900	31.10	0.0	0.0	0.0	5.57	5.10	0.00	5.10	0.00	1.21	0.09	0.00	1.31	0.00	80.3	0.0	0.	0.00
230	0.800	31.10	0.0	0.0	0.0	5.59	5.09	0.00	5.09	0.00	1.21	0.09	0.00	1.31	0.00	84.9	0.0	0.	0.00
231	0.700	31.10	0.0	0.0	0.0	5.61	5.08	0.00	5.08	0.00	1.21	0.09	0.00	1.31	0.00	89.4	0.0	0.	0.00
232	0.600	31.10	0.0	0.0	0.0	5.63	5.07	0.00	5.07	0.00	1.21	0.09	0.00	1.31	0.00	94.0	0.0	0.	0.00
244	0.500	31.32	0.0	0.0	0.0	5.66	5.23	0.00	5.23	0.00	1.22	0.09	0.00	1.31	0.00	78.3	0.0	0.	0.00
245	0.400	31.53	0.0	0.0	0.0	5.67	5.22	0.00	5.22	0.00	1.22	0.09	0.00	1.31	0.00	62.7	0.0	0.	0.00
246	0.300	31.75	0.0	0.0	0.0	5.67	5.21	0.00	5.21	0.00	1.22	0.09	0.00	1.31	0.00	47.0	0.0	0.	0.00
247	0.200	31.97	0.0	0.0	0.0	5.67	5.20	0.00	5.20	0.00	1.22	0.09	0.00	1.31	0.00	31.4	0.0	0.	0.00
248	0.100	32.18	0.0	0.0	0.0	5.66	5.19	0.00	5.19	0.00	1.22	0.09	0.00	1.31	0.00	15.7	0.0	0.	0.00
249	0.000	32.40	0.0	0.0	0.0	5.66	5.18	0.00	5.18	0.00	1.21	0.09	0.00	1.30	0.00	0.1	0.0	0.	0.00

SPECIAL REPORT: Lake Theriot

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	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	CHL A	MACRO #/100mL	COLI *	NCM
143	2.800	31.10	0.0	0.0	0.0	6.66	3.67	0.00	3.67	0.00	0.84	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00	
144	2.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00	
145	2.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
146	2.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
147	2.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
148	2.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
149	2.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
150	2.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
151	2.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
152	1.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
153	1.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	
154	1.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00	

155	1.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
156	1.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
157	1.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
158	1.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
159	1.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
160	1.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
161	1.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
162	0.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
163	0.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
164	0.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
165	0.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
166	0.500	31.10	0.0	0.0	0.0	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
167	0.400	31.10	0.0	0.0	0.0	6.80	3.97	0.00	3.97	0.00	0.84	0.05	0.00	0.89	0.00	53.0	0.0	0.	0.00
168	0.300	31.10	0.0	0.0	0.0	6.92	4.22	0.00	4.22	0.00	0.85	0.05	0.00	0.91	0.00	53.0	0.0	0.	0.00
169	0.200	31.10	0.0	0.0	0.0	7.01	4.47	0.00	4.47	0.00	0.86	0.06	0.00	0.92	0.00	53.0	0.0	0.	0.00
170	0.100	31.10	0.0	0.0	0.0	7.05	4.75	0.00	4.75	0.00	0.88	0.07	0.00	0.95	0.00	53.0	0.0	0.	0.00
171	0.000	31.10	0.0	0.0	0.0	6.65	5.34	0.00	5.34	0.00	0.98	0.08	0.00	1.06	0.00	53.0	0.0	0.	0.00

SPECIAL REPORT: Lake Hache

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	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	CHL A	MACRO #/100mL	COLI *	NCM
233	1.000	31.10	0.0	0.0	0.0	8.68	25.28	0.00	25.28	0.00	1.83	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
234	0.900	31.10	0.0	0.0	0.0	8.68	24.95	0.00	24.95	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
235	0.800	31.10	0.0	0.0	0.0	8.68	24.87	0.00	24.87	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
236	0.700	31.10	0.0	0.0	0.0	8.68	24.84	0.00	24.84	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
237	0.600	31.10	0.0	0.0	0.0	8.68	24.83	0.00	24.83	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
238	0.500	31.10	0.0	0.0	0.0	8.68	24.82	0.00	24.82	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
239	0.400	31.10	0.0	0.0	0.0	8.68	24.82	0.00	24.82	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
240	0.300	31.10	0.0	0.0	0.0	8.68	24.81	0.00	24.81	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
241	0.200	31.10	0.0	0.0	0.0	8.68	24.81	0.00	24.81	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
242	0.100	31.10	0.0	0.0	0.0	8.65	21.71	0.00	21.71	0.00	1.73	0.04	0.00	1.77	0.00	94.0	0.0	0.	0.00
243	0.000	31.10	0.0	0.0	0.0	6.67	12.66	0.00	12.66	0.00	1.48	0.10	0.00	1.58	0.00	94.0	0.0	0.	0.00

SPECIAL REPORT: Lake de Cade

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY 1/da	NH3 SRCE **	NH3 RATE **	SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	

14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
78	13.100	7.42	1.34	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
79	13.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
80	12.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
81	12.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
82	12.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
83	12.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
84	12.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
85	12.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
86	12.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
87	12.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
88	12.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
89	12.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
90	11.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00
91	11.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
92	11.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
93	11.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
94	11.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
95	11.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
96	11.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
97	11.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
98	11.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
99	11.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
100	10.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
101	10.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
102	10.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
103	10.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
104	10.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
105	10.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
106	10.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
107	10.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
108	10.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
109	10.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
110	9.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00
111	9.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
112	9.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
113	9.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00

114	9.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00
115	9.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
116	9.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
117	9.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
118	9.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
119	9.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
120	8.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
121	8.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
122	8.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
123	8.600	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
124	8.500	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
125	8.400	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
126	8.300	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
127	8.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
128	8.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
129	8.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
130	7.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
131	7.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
132	7.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
133	7.600	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
134	7.500	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
135	7.400	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
136	7.300	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
137	7.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
138	7.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
139	7.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
140	6.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
172	6.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
173	6.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
174	6.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
175	6.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
176	6.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
177	6.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
178	6.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
179	5.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
180	5.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
181	5.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
182	5.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
183	5.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
184	5.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
185	5.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
186	5.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
187	5.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
188	5.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
189	4.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
190	4.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
191	4.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
192	4.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

193	4.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
216	2.200	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
217	2.100	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
218	2.000	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
224	1.400	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00
225	1.300	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.17	0.00	0.00	0.00	0.00
226	1.200	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
227	1.100	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
228	1.000	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00
229	0.900	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
230	0.800	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
231	0.700	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
232	0.600	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
244	0.500	7.39	1.56	0.52	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.01	0.00	0.46	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
245	0.400	7.36	1.56	0.53	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.01	0.00	0.47	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
246	0.300	7.34	1.57	0.53	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.01	0.00	0.48	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
247	0.200	7.31	1.57	0.54	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.01	0.00	0.49	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
248	0.100	7.28	1.58	0.54	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.01	0.00	0.50	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
249	0.000	7.26	1.58	0.55	0.00	0.00	0.00	0.00	0.00	4.37	4.37	0.01	0.00	0.51	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake Theriot

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	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	NH3 SRCE	DENIT PROD	PO4 PROD	ALG DECAY	MAC DECAY	COLI DECAY	NCM SETT	NCM

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      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
143   2.800 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
144   2.700 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
145   2.600 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
146   2.500 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
147   2.400 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
148   2.300 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
149   2.200 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
150   2.100 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
151   2.000 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
152   1.900 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
153   1.800 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
154   1.700 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
155   1.600 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
156   1.500 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
157   1.400 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
158   1.300 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
159   1.200 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
160   1.100 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
161   1.000 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
162   0.900 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
163   0.800 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
164   0.700 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
165   0.600 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
166   0.500 7.42   1.43 0.10 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
167   0.400 7.42   0.45 0.22 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
168   0.300 7.42   0.45 0.22 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
169   0.200 7.42   0.45 0.22 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
170   0.100 7.42   0.45 0.22 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
171   0.000 7.42   0.45 0.22 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00 0.00
SPECIAL REPORT: Lake Hache
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
233   1.000 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
234   0.900 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
235   0.800 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
236   0.700 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
237   0.600 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
238   0.500 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
239   0.400 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
240   0.300 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
241   0.200 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
242   0.100 7.42   1.52 0.02 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.00 0.00  0.48 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
243   0.000 7.42   0.55 0.52 0.00  0.00 0.00 0.00  0.00 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 7.83 0.00  0.00  0.00 0.00
FINAL REPORT    Lake de Cade                    Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO.  1    Lake Hache incl 937             Baseline Simulation for Lake de Cade Theriot and Hache model
*************************************************************** REACH INPUTS ***********************************************************
ELEM  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
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NO.		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	HDWTR	11.45895	31.10	0.00	0.00	0.00	6.50	2.72	0.00	2.72	0.00	0.80	0.10	0.04	0.00	20.00	0.00	0.00
EACH	INCR	0.06494	30.00	0.00	0.00	0.00	5.00	28.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00	
EACH	INCR	-0.00217															
23	WSTLD	0.00011	31.10	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	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	20.90	20.80	11.52172	0.0	0.00487	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
2	20.80	20.70	11.58449	0.0	0.00489	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
3	20.70	20.60	11.64726	0.0	0.00492	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
4	20.60	20.50	11.71003	0.0	0.00495	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
5	20.50	20.40	11.77279	0.0	0.00497	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
6	20.40	20.30	11.83556	0.0	0.00500	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
7	20.30	20.20	11.89833	0.0	0.00503	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
8	20.20	20.10	11.96110	0.0	0.00505	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
9	20.10	20.00	12.02387	0.0	0.00508	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
10	20.00	19.90	12.08664	0.0	0.00511	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
11	19.90	19.80	12.14941	0.0	0.00513	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
12	19.80	19.70	12.21218	0.0	0.00516	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
13	19.70	19.60	12.27495	0.0	0.00519	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
14	19.60	19.50	12.33772	0.0	0.00521	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
15	19.50	19.40	12.40048	0.0	0.00524	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
16	19.40	19.30	12.46325	0.0	0.00527	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
17	19.30	19.20	12.52602	0.0	0.00529	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
18	19.20	19.10	12.58879	0.0	0.00532	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
19	19.10	19.00	12.65156	0.0	0.00535	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
20	19.00	18.90	12.71433	0.0	0.00537	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
21	18.90	18.80	12.77710	0.0	0.00540	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
22	18.80	18.70	12.83987	0.0	0.00542	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
23	18.70	18.60	12.90275	0.0	0.00545	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
24	18.60	18.50	12.96551	0.0	0.00548	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
25	18.50	18.40	13.02828	0.0	0.00550	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
26	18.40	18.30	13.09105	0.0	0.00553	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
27	18.30	18.20	13.15382	0.0	0.00556	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
28	18.20	18.10	13.21659	0.0	0.00558	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
29	18.10	18.00	13.27936	0.0	0.00561	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
30	18.00	17.90	13.34213	0.0	0.00564	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
31	17.90	17.80	13.40490	0.0	0.00566	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
32	17.80	17.70	13.46767	0.0	0.00569	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
33	17.70	17.60	13.53043	0.0	0.00572	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
34	17.60	17.50	13.59320	0.0	0.00574	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
35	17.50	17.40	13.65597	0.0	0.00577	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
36	17.40	17.30	13.71874	0.0	0.00580	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
37	17.30	17.20	13.78151	0.0	0.00582	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
38	17.20	17.10	13.84428	0.0	0.00585	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
39	17.10	17.00	13.90705	0.0	0.00588	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
40	17.00	16.90	13.96982	0.0	0.00590	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
41	16.90	16.80	14.03259	0.0	0.00593	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006

42	16.80	16.70	14.09536	0.0	0.00596	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
43	16.70	16.60	14.15812	0.0	0.00598	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
44	16.60	16.50	14.22089	0.0	0.00601	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
45	16.50	16.40	14.28366	0.0	0.00603	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
46	16.40	16.30	14.34643	0.0	0.00606	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
TOT					9.78			10887509.00	7024200.00						
AVG				0.0054			1.55	1527.00			2366.85				
CUM					9.78										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	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	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	

39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.20			0.00	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 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	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
1	20.800	31.10	0.00	0.00	0.00	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.00	0.00	0.	0.00
2	20.700	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.00	0.00	0.	0.00
3	20.600	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.91	0.00	20.00	0.00	0.	0.00
4	20.500	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00
5	20.400	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00
6	20.300	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
7	20.200	31.10	0.00	0.00	0.00	6.49	2.74	0.00	2.74	0.00	0.85	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
8	20.100	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
9	20.000	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
10	19.900	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00
11	19.800	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00
12	19.700	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00
13	19.600	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00
14	19.500	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.00	0.00	0.	0.00
15	19.400	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.00	0.00	0.	0.00
16	19.300	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.89	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00
17	19.200	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00
18	19.100	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00
19	19.000	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00
20	18.900	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00
21	18.800	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
22	18.700	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
23	18.600	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
24	18.500	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
25	18.400	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
26	18.300	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
27	18.200	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
28	18.100	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
29	18.000	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
30	17.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
31	17.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
32	17.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
33	17.600	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
34	17.500	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
35	17.400	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
36	17.300	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
37	17.200	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00

38	17.100	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
39	17.000	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
40	16.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
41	16.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
42	16.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
43	16.600	31.10	0.00	0.00	0.00	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
44	16.500	31.10	0.00	0.00	0.00	6.54	2.78	0.00	2.78	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
45	16.400	31.10	0.00	0.00	0.00	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00
46	16.300	31.10	0.00	0.00	0.00	6.52	2.87	0.00	2.87	0.00	1.02	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 2 Lake Hache incl 120406-B Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
47	UPR RCH	14.34643	31.10	0.00	0.00	0.00	6.52	2.87	0.00	2.87	0.00	1.02	0.06	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.09637	30.00	0.00	0.00	0.00	5.00	45.00	0.00			2.00	1.00	0.04	0.00	0.00	0.00	
EACH	INCR	-0.19677																

********** 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
47	16.30	16.20	14.24602	0.0	0.00893	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
48	16.20	16.10	14.14562	0.0	0.00887	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
49	16.10	16.00	14.04521	0.0	0.00881	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
50	16.00	15.90	13.94480	0.0	0.00874	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
51	15.90	15.80	13.84440	0.0	0.00868	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
52	15.80	15.70	13.74399	0.0	0.00862	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
53	15.70	15.60	13.64358	0.0	0.00855	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009	
54	15.60	15.50	13.54318	0.0	0.00849	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
55	15.50	15.40	13.44277	0.0	0.00843	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
56	15.40	15.30	13.34236	0.0	0.00837	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
57	15.30	15.20	13.24196	0.0	0.00830	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
58	15.20	15.10	13.14155	0.0	0.00824	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
59	15.10	15.00	13.04114	0.0	0.00818	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
60	15.00	14.90	12.94074	0.0	0.00811	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
61	14.90	14.80	12.84033	0.0	0.00805	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
62	14.80	14.70	12.73992	0.0	0.00799	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
63	14.70	14.60	12.63952	0.0	0.00792	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
64	14.60	14.50	12.53911	0.0	0.00786	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
65	14.50	14.40	12.43870	0.0	0.00780	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
66	14.40	14.30	12.33830	0.0	0.00774	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
67	14.30	14.20	12.23789	0.0	0.00767	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
68	14.20	14.10	12.13748	0.0	0.00761	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
69	14.10	14.00	12.03708	0.0	0.00755	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008	
70	14.00	13.90	11.93667	0.0	0.00748	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	
71	13.90	13.80	11.83626	0.0	0.00742	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	
72	13.80	13.70	11.73586	0.0	0.00736	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	
73	13.70	13.60	11.63545	0.0	0.00730	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	
74	13.60	13.50	11.53504	0.0	0.00723	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	
75	13.50	13.40	11.43464	0.0	0.00717	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007	

76	13.40	13.30	11.33423	0.0	0.00711	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007									
77	13.30	13.20	11.23382	0.0	0.00704	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007									
TOT					4.51			4944345.00	3189900.00															
AVG				0.0079			1.55	1029.00			1594.95													
CUM					14.30																			

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.40		0.00	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00	

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

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

ELEM NO.	ENDING DIST	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 µg/L	TOTN g/m^3	PHOS	CHL A #/100mL	MACRO	COLI	NCM
47	16.200	31.10	0.00	0.00	0.00	6.48	3.05	0.00	3.05	0.00	1.03	0.06	0.00	1.09	0.00	20.00	0.00	0.	0.00	
48	16.100	31.10	0.00	0.00	0.00	6.43	3.24	0.00	3.24	0.00	1.03	0.06	0.00	1.10	0.00	20.00	0.00	0.	0.00	
49	16.000	31.10	0.00	0.00	0.00	6.39	3.43	0.00	3.43	0.00	1.04	0.07	0.00	1.11	0.00	20.00	0.00	0.	0.00	
50	15.900	31.10	0.00	0.00	0.00	6.34	3.60	0.00	3.60	0.00	1.05	0.07	0.00	1.12	0.00	20.00	0.00	0.	0.00	
51	15.800	31.10	0.00	0.00	0.00	6.29	3.78	0.00	3.78	0.00	1.05	0.07	0.00	1.12	0.00	20.00	0.00	0.	0.00	

52	15.700	31.10	0.00	0.00	0.00	6.25	3.95	0.00	3.95	0.00	1.06	0.07	0.00	1.13	0.00	20.00	0.00	0.	0.00
53	15.600	31.10	0.00	0.00	0.00	6.20	4.11	0.00	4.11	0.00	1.06	0.08	0.00	1.14	0.00	20.00	0.00	0.	0.00
54	15.500	31.10	0.00	0.00	0.00	6.15	4.27	0.00	4.27	0.00	1.07	0.08	0.00	1.15	0.00	20.00	0.00	0.	0.00
55	15.400	31.10	0.00	0.00	0.00	6.10	4.43	0.00	4.43	0.00	1.08	0.08	0.00	1.16	0.00	20.00	0.00	0.	0.00
56	15.300	31.10	0.00	0.00	0.00	6.05	4.58	0.00	4.58	0.00	1.08	0.08	0.00	1.16	0.00	20.00	0.00	0.	0.00
57	15.200	31.10	0.00	0.00	0.00	6.00	4.73	0.00	4.73	0.00	1.09	0.08	0.00	1.17	0.00	20.00	0.00	0.	0.00
58	15.100	31.10	0.00	0.00	0.00	5.95	4.87	0.00	4.87	0.00	1.09	0.09	0.00	1.18	0.00	20.00	0.00	0.	0.00
59	15.000	31.10	0.00	0.00	0.00	5.91	5.01	0.00	5.01	0.00	1.10	0.09	0.00	1.19	0.00	20.00	0.00	0.	0.00
60	14.900	31.10	0.00	0.00	0.00	5.86	5.14	0.00	5.14	0.00	1.11	0.09	0.00	1.20	0.00	20.00	0.00	0.	0.00
61	14.800	31.10	0.00	0.00	0.00	5.81	5.27	0.00	5.27	0.00	1.11	0.09	0.00	1.20	0.00	20.00	0.00	0.	0.00
62	14.700	31.10	0.00	0.00	0.00	5.76	5.40	0.00	5.40	0.00	1.12	0.09	0.00	1.21	0.00	20.00	0.00	0.	0.00
63	14.600	31.10	0.00	0.00	0.00	5.72	5.52	0.00	5.52	0.00	1.12	0.09	0.00	1.22	0.00	20.00	0.00	0.	0.00
64	14.500	31.10	0.00	0.00	0.00	5.67	5.64	0.00	5.64	0.00	1.13	0.09	0.00	1.22	0.00	20.00	0.00	0.	0.00
65	14.400	31.10	0.00	0.00	0.00	5.63	5.76	0.00	5.76	0.00	1.14	0.10	0.00	1.23	0.00	20.00	0.00	0.	0.00
66	14.300	31.10	0.00	0.00	0.00	5.59	5.87	0.00	5.87	0.00	1.14	0.10	0.00	1.24	0.00	20.00	0.00	0.	0.00
67	14.200	31.10	0.00	0.00	0.00	5.54	5.98	0.00	5.98	0.00	1.15	0.10	0.00	1.25	0.00	20.00	0.00	0.	0.00
68	14.100	31.10	0.00	0.00	0.00	5.50	6.08	0.00	6.08	0.00	1.15	0.10	0.00	1.25	0.00	20.00	0.00	0.	0.00
69	14.000	31.10	0.00	0.00	0.00	5.46	6.19	0.00	6.19	0.00	1.16	0.10	0.00	1.26	0.00	20.00	0.00	0.	0.00
70	13.900	31.10	0.00	0.00	0.00	5.42	6.29	0.00	6.29	0.00	1.17	0.10	0.00	1.27	0.00	20.00	0.00	0.	0.00
71	13.800	31.10	0.00	0.00	0.00	5.38	6.38	0.00	6.38	0.00	1.17	0.10	0.00	1.27	0.00	20.00	0.00	0.	0.00
72	13.700	31.10	0.00	0.00	0.00	5.35	6.47	0.00	6.47	0.00	1.18	0.10	0.00	1.28	0.00	20.00	0.00	0.	0.00
73	13.600	31.10	0.00	0.00	0.00	5.31	6.56	0.00	6.56	0.00	1.18	0.10	0.00	1.29	0.00	20.00	0.00	0.	0.00
74	13.500	31.10	0.00	0.00	0.00	5.27	6.65	0.00	6.65	0.00	1.19	0.10	0.00	1.29	0.00	20.00	0.00	0.	0.00
75	13.400	31.10	0.00	0.00	0.00	5.24	6.73	0.00	6.73	0.00	1.20	0.10	0.00	1.30	0.00	20.00	0.00	0.	0.00
76	13.300	31.10	0.00	0.00	0.00	5.21	6.80	0.00	6.80	0.00	1.20	0.10	0.00	1.31	0.00	20.00	0.00	0.	0.00
77	13.200	31.10	0.00	0.00	0.00	5.19	6.85	0.00	6.85	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 3 L. Hache-405/406 boundary Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
78	UPR RCH	11.23382	31.10	0.00	0.00	0.00	5.19	6.85	0.00	6.85	0.00	1.20	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00218	30.00	0.00	0.00	0.00	5.00	60.00	0.00		6.00	1.00	0.04	0.00	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 m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
78	13.20	13.10	11.23600	0.0	0.28996	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
79	13.10	13.00	11.23818	0.0	0.29002	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
80	13.00	12.90	11.24036	0.0	0.29007	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
81	12.90	12.80	11.24254	0.0	0.29013	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
82	12.80	12.70	11.24472	0.0	0.29019	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
83	12.70	12.60	11.24690	0.0	0.29024	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
84	12.60	12.50	11.24908	0.0	0.29030	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
85	12.50	12.40	11.25126	0.0	0.29036	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
86	12.40	12.30	11.25344	0.0	0.29041	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
87	12.30	12.20	11.25562	0.0	0.29047	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.290
88	12.20	12.10	11.25780	0.0	0.29052	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
89	12.10	12.00	11.25997	0.0	0.29058	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
90	12.00	11.90	11.26215	0.0	0.29064	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291

91	11.90	11.80	11.26433	0.0	0.29069	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
92	11.80	11.70	11.26651	0.0	0.29075	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
93	11.70	11.60	11.26869	0.0	0.29080	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
94	11.60	11.50	11.27087	0.0	0.29086	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
95	11.50	11.40	11.27305	0.0	0.29092	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
96	11.40	11.30	11.27523	0.0	0.29097	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
97	11.30	11.20	11.27741	0.0	0.29103	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
98	11.20	11.10	11.27959	0.0	0.29109	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
99	11.10	11.00	11.28177	0.0	0.29114	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
100	11.00	10.90	11.28395	0.0	0.29120	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
101	10.90	10.80	11.28612	0.0	0.29125	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
102	10.80	10.70	11.28830	0.0	0.29131	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
103	10.70	10.60	11.29048	0.0	0.29137	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
104	10.60	10.50	11.29266	0.0	0.29142	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
105	10.50	10.40	11.29484	0.0	0.29148	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.291
106	10.40	10.30	11.29702	0.0	0.29154	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
107	10.30	10.20	11.29920	0.0	0.29159	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
108	10.20	10.10	11.30138	0.0	0.29165	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
109	10.10	10.00	11.30356	0.0	0.29170	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
110	10.00	9.90	11.30574	0.0	0.29176	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
111	9.90	9.80	11.30792	0.0	0.29182	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
112	9.80	9.70	11.31009	0.0	0.29187	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
113	9.70	9.60	11.31227	0.0	0.29193	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
114	9.60	9.50	11.31445	0.0	0.29199	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
115	9.50	9.40	11.31663	0.0	0.29204	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
116	9.40	9.30	11.31881	0.0	0.29210	0.00	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.292
TOT					0.16			151125.00	97500.00						
AVG				0.2910			1.55	25.00			38.75				
CUM					14.45										

********** 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				
78	13.100	7.42	1.34	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	
79	13.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00	
80	12.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	
81	12.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	
82	12.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00	
83	12.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	
84	12.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00	
85	12.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00	
86	12.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	
87	12.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00	
88	12.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00	
89	12.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00	
90	11.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	
91	11.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00	
92	11.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.45	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	
93	11.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00	
94	11.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00	

95	11.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
96	11.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
97	11.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
98	11.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
99	11.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
100	10.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
101	10.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
102	10.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
103	10.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
104	10.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
105	10.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
106	10.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
107	10.200	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
108	10.100	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
109	10.000	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
110	9.900	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00
111	9.800	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
112	9.700	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
113	9.600	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
114	9.500	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00
115	9.400	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
116	9.300	7.42	1.35	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 1.10 0.31 0.00 0.00 0.00 0.00 0.00 2.50 0.01 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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
78	13.100	31.10	0.00	0.00	0.00	5.18	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	20.85	0.00	0.	0.00
79	13.000	31.10	0.00	0.00	0.00	5.17	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	21.69	0.00	0.	0.00
80	12.900	31.10	0.00	0.00	0.00	5.17	6.84	0.00	6.84	0.00	1.21	0.11	0.00	1.31	0.00	22.54	0.00	0.	0.00
81	12.800	31.10	0.00	0.00	0.00	5.16	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.31	0.00	23.38	0.00	0.	0.00
82	12.700	31.10	0.00	0.00	0.00	5.15	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.31	0.00	24.23	0.00	0.	0.00
83	12.600	31.10	0.00	0.00	0.00	5.14	6.83	0.00	6.83	0.00	1.21	0.11	0.00	1.32	0.00	25.08	0.00	0.	0.00
84	12.500	31.10	0.00	0.00	0.00	5.14	6.82	0.00	6.82	0.00	1.21	0.11	0.00	1.32	0.00	25.92	0.00	0.	0.00
85	12.400	31.10	0.00	0.00	0.00	5.13	6.82	0.00	6.82	0.00	1.21	0.11	0.00	1.32	0.00	26.77	0.00	0.	0.00
86	12.300	31.10	0.00	0.00	0.00	5.12	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	27.62	0.00	0.	0.00
87	12.200	31.10	0.00	0.00	0.00	5.12	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	28.46	0.00	0.	0.00
88	12.100	31.10	0.00	0.00	0.00	5.11	6.81	0.00	6.81	0.00	1.21	0.11	0.00	1.32	0.00	29.31	0.00	0.	0.00
89	12.000	31.10	0.00	0.00	0.00	5.11	6.80	0.00	6.80	0.00	1.21	0.11	0.00	1.32	0.00	30.15	0.00	0.	0.00
90	11.900	31.10	0.00	0.00	0.00	5.10	6.80	0.00	6.80	0.00	1.22	0.11	0.00	1.32	0.00	31.00	0.00	0.	0.00
91	11.800	31.10	0.00	0.00	0.00	5.10	6.80	0.00	6.80	0.00	1.22	0.11	0.00	1.32	0.00	31.85	0.00	0.	0.00
92	11.700	31.10	0.00	0.00	0.00	5.09	6.79	0.00	6.79	0.00	1.22	0.11	0.00	1.32	0.00	32.69	0.00	0.	0.00
93	11.600	31.10	0.00	0.00	0.00	5.09	6.79	0.00	6.79	0.00	1.22	0.11	0.00	1.32	0.00	33.54	0.00	0.	0.00
94	11.500	31.10	0.00	0.00	0.00	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	34.38	0.00	0.	0.00
95	11.400	31.10	0.00	0.00	0.00	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	35.23	0.00	0.	0.00
96	11.300	31.10	0.00	0.00	0.00	5.08	6.78	0.00	6.78	0.00	1.22	0.11	0.00	1.33	0.00	36.08	0.00	0.	0.00
97	11.200	31.10	0.00	0.00	0.00	5.08	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	36.92	0.00	0.	0.00
98	11.100	31.10	0.00	0.00	0.00	5.07	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	37.77	0.00	0.	0.00
99	11.000	31.10	0.00	0.00	0.00	5.07	6.77	0.00	6.77	0.00	1.22	0.11	0.00	1.33	0.00	38.62	0.00	0.	0.00

100	10.900	31.10	0.00	0.00	0.00	5.07	6.76	0.00	6.76	0.00	1.22	0.11	0.00	1.33	0.00	39.46	0.00	0.	0.00
101	10.800	31.10	0.00	0.00	0.00	5.07	6.76	0.00	6.76	0.00	1.23	0.11	0.00	1.33	0.00	40.31	0.00	0.	0.00
102	10.700	31.10	0.00	0.00	0.00	5.07	6.76	0.00	6.76	0.00	1.23	0.11	0.00	1.33	0.00	41.15	0.00	0.	0.00
103	10.600	31.10	0.00	0.00	0.00	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.33	0.00	42.00	0.00	0.	0.00
104	10.500	31.10	0.00	0.00	0.00	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.33	0.00	42.85	0.00	0.	0.00
105	10.400	31.10	0.00	0.00	0.00	5.06	6.75	0.00	6.75	0.00	1.23	0.11	0.00	1.34	0.00	43.69	0.00	0.	0.00
106	10.300	31.10	0.00	0.00	0.00	5.06	6.74	0.00	6.74	0.00	1.23	0.11	0.00	1.34	0.00	44.54	0.00	0.	0.00
107	10.200	31.10	0.00	0.00	0.00	5.06	6.74	0.00	6.74	0.00	1.23	0.11	0.00	1.34	0.00	45.38	0.00	0.	0.00
108	10.100	31.10	0.00	0.00	0.00	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	46.23	0.00	0.	0.00
109	10.000	31.10	0.00	0.00	0.00	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	47.08	0.00	0.	0.00
110	9.900	31.10	0.00	0.00	0.00	5.06	6.73	0.00	6.73	0.00	1.23	0.11	0.00	1.34	0.00	47.92	0.00	0.	0.00
111	9.800	31.10	0.00	0.00	0.00	5.07	6.72	0.00	6.72	0.00	1.23	0.11	0.00	1.34	0.00	48.77	0.00	0.	0.00
112	9.700	31.10	0.00	0.00	0.00	5.07	6.72	0.00	6.72	0.00	1.23	0.11	0.00	1.34	0.00	49.62	0.00	0.	0.00
113	9.600	31.10	0.00	0.00	0.00	5.07	6.72	0.00	6.72	0.00	1.24	0.11	0.00	1.34	0.00	50.46	0.00	0.	0.00
114	9.500	31.10	0.00	0.00	0.00	5.07	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	51.31	0.00	0.	0.00
115	9.400	31.10	0.00	0.00	0.00	5.07	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	52.15	0.00	0.	0.00
116	9.300	31.10	0.00	0.00	0.00	5.08	6.71	0.00	6.71	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 4 405/406 boundary to L. Theriot Baseline Simulation for Lake de Cade Theriot and Hache 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	PHOS #/100mL	CHL A	COLI	NCM
117	UPR RCH	11.31881	31.10	0.00	0.00	0.00	5.08	6.71	0.00	6.71	0.00	1.24	0.11	0.00	0.00	53.00	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
117	9.30	9.20	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
118	9.20	9.10	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
119	9.10	9.00	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
120	9.00	8.90	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
121	8.90	8.80	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
122	8.80	8.70	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
123	8.70	8.60	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
124	8.60	8.50	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
125	8.50	8.40	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
126	8.40	8.30	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
127	8.30	8.20	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
128	8.20	8.10	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
129	8.10	8.00	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
130	8.00	7.90	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
131	7.90	7.80	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
132	7.80	7.70	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
133	7.70	7.60	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
134	7.60	7.50	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
135	7.50	7.40	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
136	7.40	7.30	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
137	7.30	7.20	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
138	7.20	7.10	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730
139	7.10	7.00	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730

140	7.00	6.90	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730			
141	6.90	6.80	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730			
142	6.80	6.70	11.31881	0.0	0.73025	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.730			
TOT					0.04			40300.00	26000.00									
AVG				0.7302			1.55	10.00			15.50							
CUM					14.49													

********** 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	
117	9.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
118	9.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
119	9.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
120	8.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
121	8.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
122	8.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
123	8.600	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
124	8.500	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
125	8.400	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
126	8.300	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
127	8.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
128	8.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
129	8.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
130	7.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
131	7.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
132	7.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
133	7.600	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
134	7.500	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
135	7.400	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
136	7.300	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
137	7.200	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
138	7.100	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
139	7.000	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
140	6.900	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	2.13	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.74	0.31	0.00	0.00	0.00	0.00	0.00	2.00		0.01	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 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	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
117	9.200	31.10	0.00	0.00	0.00	5.08	6.70	0.00	6.70	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
118	9.100	31.10	0.00	0.00	0.00	5.09	6.70	0.00	6.70	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
119	9.000	31.10	0.00	0.00	0.00	5.09	6.69	0.00	6.69	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
120	8.900	31.10	0.00	0.00	0.00	5.10	6.68	0.00	6.68	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
121	8.800	31.10	0.00	0.00	0.00	5.10	6.68	0.00	6.68	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
122	8.700	31.10	0.00	0.00	0.00	5.11	6.67	0.00	6.67	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
123	8.600	31.10	0.00	0.00	0.00	5.11	6.67	0.00	6.67	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	
124	8.500	31.10	0.00	0.00	0.00	5.12	6.66	0.00	6.66	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00	

125	8.400	31.10	0.00	0.00	0.00	5.12	6.66	0.00	6.66	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
126	8.300	31.10	0.00	0.00	0.00	5.13	6.65	0.00	6.65	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
127	8.200	31.10	0.00	0.00	0.00	5.13	6.65	0.00	6.65	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
128	8.100	31.10	0.00	0.00	0.00	5.14	6.64	0.00	6.64	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
129	8.000	31.10	0.00	0.00	0.00	5.14	6.64	0.00	6.64	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
130	7.900	31.10	0.00	0.00	0.00	5.14	6.63	0.00	6.63	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
131	7.800	31.10	0.00	0.00	0.00	5.15	6.62	0.00	6.62	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
132	7.700	31.10	0.00	0.00	0.00	5.15	6.62	0.00	6.62	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
133	7.600	31.10	0.00	0.00	0.00	5.16	6.61	0.00	6.61	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
134	7.500	31.10	0.00	0.00	0.00	5.16	6.61	0.00	6.61	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
135	7.400	31.10	0.00	0.00	0.00	5.17	6.60	0.00	6.60	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
136	7.300	31.10	0.00	0.00	0.00	5.17	6.60	0.00	6.60	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
137	7.200	31.10	0.00	0.00	0.00	5.18	6.59	0.00	6.59	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
138	7.100	31.10	0.00	0.00	0.00	5.18	6.59	0.00	6.59	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
139	7.000	31.10	0.00	0.00	0.00	5.19	6.58	0.00	6.58	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
140	6.900	31.10	0.00	0.00	0.00	5.19	6.58	0.00	6.58	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
141	6.800	31.10	0.00	0.00	0.00	5.20	6.57	0.00	6.57	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00
142	6.700	31.10	0.00	0.00	0.00	5.20	6.57	0.00	6.57	0.00	1.24	0.11	0.00	1.34	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 7 L. Theriot to Mandalay WR Bndy Baseline Simulation for Lake de Cade Theriot and Hache 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	PHOS	CHL A	COLI #/100mL	NCM
172	UPR RCH	11.31881	31.10	0.00	0.00	0.00	5.20	6.57	0.00	6.57	0.00	1.24	0.11	0.00	0.00	53.00	0.00	0.00
172	TRIB	0.50324	31.10	0.00	0.00	0.00	6.65	5.34	0.00	5.34	0.00	0.98	0.08	0.00	0.00	53.00	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
172	6.70	6.60	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
173	6.60	6.50	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
174	6.50	6.40	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
175	6.40	6.30	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
176	6.30	6.20	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
177	6.20	6.10	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
178	6.10	6.00	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
179	6.00	5.90	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
180	5.90	5.80	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
181	5.80	5.70	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
182	5.70	5.60	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
183	5.60	5.50	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
184	5.50	5.40	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
185	5.40	5.30	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
186	5.30	5.20	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
187	5.20	5.10	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
188	5.10	5.00	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
189	5.00	4.90	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
190	4.90	4.80	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
191	4.80	4.70	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
192	4.70	4.60	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166

193	4.60	4.50	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
194	4.50	4.40	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
195	4.40	4.30	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
196	4.30	4.20	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
197	4.20	4.10	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
198	4.10	4.00	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
199	4.00	3.90	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
200	3.90	3.80	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
201	3.80	3.70	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
202	3.70	3.60	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
203	3.60	3.50	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
204	3.50	3.40	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
205	3.40	3.30	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
206	3.30	3.20	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
207	3.20	3.10	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
208	3.10	3.00	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
209	3.00	2.90	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
210	2.90	2.80	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
211	2.80	2.70	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
212	2.70	2.60	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
213	2.60	2.50	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
214	2.50	2.40	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
215	2.40	2.30	11.82205	0.0	0.16581	0.01	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.166
TOT					0.31			313719.97	202400.00						
AVG				0.1658			1.55	46.00			71.30				
CUM					14.80										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY 1/da	NH3 SRCE 1/da	NH3 RATE *	SRCE 1/da	DENIT PROD *	PO4 PROD **	ALG DECAY **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
172	6.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
173	6.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
174	6.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
175	6.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
176	6.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
177	6.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
178	6.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
179	5.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
180	5.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
181	5.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
182	5.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
183	5.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
184	5.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
185	5.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
186	5.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
187	5.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
188	5.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
189	4.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
190	4.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
191	4.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	

192	4.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
193	4.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	1.02	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.83	0.31	0.00	0.00	0.00	0.00	0.00	2.00		0.01	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 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	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
172	6.600	31.10	0.00	0.00	0.00	5.29	6.47	0.00	6.47	0.00	1.22	0.10	0.00	1.33	0.00	53.00	0.00		0.	0.00
173	6.500	31.10	0.00	0.00	0.00	5.29	6.45	0.00	6.45	0.00	1.22	0.10	0.00	1.33	0.00	53.00	0.00		0.	0.00
174	6.400	31.10	0.00	0.00	0.00	5.30	6.42	0.00	6.42	0.00	1.22	0.10	0.00	1.33	0.00	53.00	0.00		0.	0.00
175	6.300	31.10	0.00	0.00	0.00	5.30	6.40	0.00	6.40	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
176	6.200	31.10	0.00	0.00	0.00	5.30	6.38	0.00	6.38	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
177	6.100	31.10	0.00	0.00	0.00	5.31	6.36	0.00	6.36	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
178	6.000	31.10	0.00	0.00	0.00	5.31	6.33	0.00	6.33	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
179	5.900	31.10	0.00	0.00	0.00	5.31	6.31	0.00	6.31	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
180	5.800	31.10	0.00	0.00	0.00	5.32	6.29	0.00	6.29	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
181	5.700	31.10	0.00	0.00	0.00	5.32	6.26	0.00	6.26	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
182	5.600	31.10	0.00	0.00	0.00	5.32	6.24	0.00	6.24	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
183	5.500	31.10	0.00	0.00	0.00	5.33	6.22	0.00	6.22	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
184	5.400	31.10	0.00	0.00	0.00	5.33	6.20	0.00	6.20	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
185	5.300	31.10	0.00	0.00	0.00	5.34	6.17	0.00	6.17	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
186	5.200	31.10	0.00	0.00	0.00	5.34	6.15	0.00	6.15	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
187	5.100	31.10	0.00	0.00	0.00	5.34	6.13	0.00	6.13	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
188	5.000	31.10	0.00	0.00	0.00	5.35	6.11	0.00	6.11	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
189	4.900	31.10	0.00	0.00	0.00	5.35	6.09	0.00	6.09	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
190	4.800	31.10	0.00	0.00	0.00	5.36	6.06	0.00	6.06	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
191	4.700	31.10	0.00	0.00	0.00	5.36	6.04	0.00	6.04	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00
192	4.600	31.10	0.00	0.00	0.00	5.36	6.02	0.00	6.02	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00		0.	0.00

193	4.500	31.10	0.00	0.00	0.00	5.37	6.00	0.00	6.00	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
194	4.400	31.10	0.00	0.00	0.00	5.37	5.98	0.00	5.98	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
195	4.300	31.10	0.00	0.00	0.00	5.38	5.96	0.00	5.96	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
196	4.200	31.10	0.00	0.00	0.00	5.38	5.94	0.00	5.94	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
197	4.100	31.10	0.00	0.00	0.00	5.39	5.91	0.00	5.91	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
198	4.000	31.10	0.00	0.00	0.00	5.39	5.89	0.00	5.89	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
199	3.900	31.10	0.00	0.00	0.00	5.39	5.87	0.00	5.87	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
200	3.800	31.10	0.00	0.00	0.00	5.40	5.85	0.00	5.85	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
201	3.700	31.10	0.00	0.00	0.00	5.40	5.83	0.00	5.83	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
202	3.600	31.10	0.00	0.00	0.00	5.41	5.81	0.00	5.81	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
203	3.500	31.10	0.00	0.00	0.00	5.41	5.79	0.00	5.79	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
204	3.400	31.10	0.00	0.00	0.00	5.42	5.77	0.00	5.77	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
205	3.300	31.10	0.00	0.00	0.00	5.42	5.75	0.00	5.75	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
206	3.200	31.10	0.00	0.00	0.00	5.43	5.73	0.00	5.73	0.00	1.22	0.10	0.00	1.32	0.00	53.00	0.00	0.	0.00
207	3.100	31.10	0.00	0.00	0.00	5.43	5.71	0.00	5.71	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
208	3.000	31.10	0.00	0.00	0.00	5.44	5.68	0.00	5.68	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
209	2.900	31.10	0.00	0.00	0.00	5.44	5.66	0.00	5.66	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
210	2.800	31.10	0.00	0.00	0.00	5.45	5.64	0.00	5.64	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
211	2.700	31.10	0.00	0.00	0.00	5.45	5.62	0.00	5.62	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
212	2.600	31.10	0.00	0.00	0.00	5.46	5.60	0.00	5.60	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
213	2.500	31.10	0.00	0.00	0.00	5.46	5.58	0.00	5.58	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
214	2.400	31.10	0.00	0.00	0.00	5.47	5.56	0.00	5.56	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00
215	2.300	31.10	0.00	0.00	0.00	5.47	5.54	0.00	5.54	0.00	1.22	0.10	0.00	1.31	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 8 Mandalay WR Bndy to constriction Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
216	UPR RCH	11.82205	31.10	0.00	0.00	0.00	5.47	5.54	0.00	5.54	0.00	1.22	0.10	0.00	0.00	53.00	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
216	2.30	2.20	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
217	2.20	2.10	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
218	2.10	2.00	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
219	2.00	1.90	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
220	1.90	1.80	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
221	1.80	1.70	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
222	1.70	1.60	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
223	1.60	1.50	11.82205	0.0	0.06934	0.02	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.069
TOT					0.13			136400.00	88000.00						
AVG			0.0693				1.55	110.00			170.50				
CUM					14.93										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE *	SRCE PROD **	PROD PROD **	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
216	2.200	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
217	2.100	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			

218	2.000	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.66	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.54	0.31	0.00	0.00	0.00	0.00	0.00	2.00			0.01	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 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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
216	2.200	31.10	0.00	0.00	0.00	5.47	5.50	0.00	5.50	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
217	2.100	31.10	0.00	0.00	0.00	5.48	5.45	0.00	5.45	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
218	2.000	31.10	0.00	0.00	0.00	5.48	5.40	0.00	5.40	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
219	1.900	31.10	0.00	0.00	0.00	5.48	5.36	0.00	5.36	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
220	1.800	31.10	0.00	0.00	0.00	5.48	5.31	0.00	5.31	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
221	1.700	31.10	0.00	0.00	0.00	5.49	5.26	0.00	5.26	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
222	1.600	31.10	0.00	0.00	0.00	5.49	5.22	0.00	5.22	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00
223	1.500	31.10	0.00	0.00	0.00	5.49	5.18	0.00	5.18	0.00	1.22	0.09	0.00	1.31	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 9 constriction to Lake Hache inflo Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
224	UPR RCH	11.82205	31.10	0.00	0.00	0.00	5.49	5.18	0.00	5.18	0.00	1.22	0.09	0.00	0.00	53.00	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
224	1.50	1.40	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
225	1.40	1.30	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
226	1.30	1.20	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
227	1.20	1.10	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
228	1.10	1.00	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
229	1.00	0.90	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
230	0.90	0.80	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
231	0.80	0.70	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
232	0.70	0.60	11.82205	0.0	0.25424	0.00	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.254
TOT					0.04				41850.00	27000.00					
AVG				0.2542		1.55	30.00				46.50				
CUM					14.98										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 *	BOD#2 *	BOD#2 *	ABOD#2 DECAY 1/da	BKGD SOD 1/da	FULL SOD 1/da	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	ORGN SRCE *	NH3 RATE **	NH3 SRCE **	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
224	1.400	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00				
225	1.300	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.17	0.00	0.00	0.00	0.00				
226	1.200	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00				
227	1.100	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00				
228	1.000	7.42	1.26	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00				

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229   0.900 7.42   1.26  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.45 0.00  0.00 0.00 6.69 0.00  0.00  0.00  0.00
230   0.800 7.42   1.26  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.45 0.00  0.00 0.00 7.07 0.00  0.00  0.00  0.00
231   0.700 7.42   1.26  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.45 0.00  0.00 0.00 7.45 0.00  0.00  0.00  0.00
232   0.600 7.42   1.26  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.45 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.03  0.31 0.00  0.00  0.00 0.00  0.00 2.00          0.01 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
224   1.400 31.10 0.00    0.00    0.00 5.50  5.16  0.00  5.16  0.00  1.22  0.09  0.00  1.31  0.00 57.56   0.00     0.   0.00
225   1.300 31.10 0.00    0.00    0.00 5.51  5.15  0.00  5.15  0.00  1.22  0.09  0.00  1.31  0.00 62.11   0.00     0.   0.00
226   1.200 31.10 0.00    0.00    0.00 5.52  5.14  0.00  5.14  0.00  1.22  0.09  0.00  1.31  0.00 66.67   0.00     0.   0.00
227   1.100 31.10 0.00    0.00    0.00 5.54  5.13  0.00  5.13  0.00  1.21  0.09  0.00  1.31  0.00 71.22   0.00     0.   0.00
228   1.000 31.10 0.00    0.00    0.00 5.55  5.12  0.00  5.12  0.00  1.21  0.09  0.00  1.31  0.00 75.78   0.00     0.   0.00
229   0.900 31.10 0.00    0.00    0.00 5.57  5.10  0.00  5.10  0.00  1.21  0.09  0.00  1.31  0.00 80.33   0.00     0.   0.00
230   0.800 31.10 0.00    0.00    0.00 5.59  5.09  0.00  5.09  0.00  1.21  0.09  0.00  1.31  0.00 84.89   0.00     0.   0.00
231   0.700 31.10 0.00    0.00    0.00 5.61  5.08  0.00  5.08  0.00  1.21  0.09  0.00  1.31  0.00 89.44   0.00     0.   0.00
232   0.600 31.10 0.00    0.00    0.00 5.63  5.07  0.00  5.07  0.00  1.21  0.09  0.00  1.31  0.00 94.00   0.00     0.   0.00
FINAL REPORT    Lake de Cade                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 12    Lake Hache inflow to 406 boundar            Baseline Simulation for Lake de Cade Theriot and Hache model
************************************************************** REACH INPUTS **************************************************************
ELEM  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
NO.              deg C    ppt              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
 244  UPR RCH  11.82205  31.10    0.00    0.00    0.00  5.63  5.07  0.00  5.07  0.00  1.21  0.09  0.00  0.00 94.00    0.00    0.00
 244  TRIB     0.11333  31.10    0.00    0.00    0.00  6.67 12.66  0.00 12.66  0.00  1.48  0.10  0.00  0.00 94.00    0.00    0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST       EFF   VELO    TIME                          AREA   AREA    PRISM   VELO          VELO
      km     km       m³/s     m/s    days     m      m      m³      m²     m²      m³     m/s    m²/s   m/s
 244   0.60   0.50  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 245   0.50   0.40  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 246   0.40   0.30  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 247   0.30   0.20  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 248   0.20   0.10  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 249   0.10   0.00  11.93538  0.0  0.38501   0.00   1.55  20.00  3100.00  2000.00  31.00   0.00  0.000   0.100  0.385
 TOT                                 0.02            18600.00  12000.00
 AVG                          0.3850          1.55  20.00                31.00
 CUM                                14.99
************************************************ 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  1/da
244   0.500 7.39   1.56  0.52 0.00  0.00  0.00 0.00  0.00 4.08 4.08 4.08  0.01 0.00  0.46 0.00  0.00 0.00 6.59 0.00  0.00  0.00  0.00
245   0.400 7.36   1.56  0.53 0.00  0.00  0.00 0.00  0.00 4.13 4.13 4.13  0.01 0.00  0.47 0.00  0.00 0.00 5.32 0.00  0.00  0.00  0.00
246   0.300 7.34   1.57  0.53 0.00  0.00  0.00 0.00  0.00 4.19 4.19 4.19  0.01 0.00  0.48 0.00  0.00 0.00 4.04 0.00  0.00  0.00  0.00
247   0.200 7.31   1.57  0.54 0.00  0.00  0.00 0.00  0.00 4.25 4.25 4.25  0.01 0.00  0.49 0.00  0.00 0.00 2.72 0.00  0.00  0.00  0.00
248   0.100 7.28   1.58  0.54 0.00  0.00  0.00 0.00  0.00 4.31 4.31 4.31  0.01 0.00  0.50 0.00  0.00 0.00 1.38 0.00  0.00  0.00  0.00
249   0.000 7.26   1.58  0.55 0.00  0.00  0.00 0.00  0.00 4.37 4.37 4.37  0.01 0.00  0.51 0.00  0.00 0.00 0.01 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.26  0.31 0.00  0.00  0.00 0.00  0.00 2.00          0.01 0.00  0.20 0.00  0.00 0.00          0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
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********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	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	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
244	0.500	31.32	0.00	0.00	0.00	5.66	5.23	0.00	5.23	0.00	1.22	0.09	0.00	1.31	0.00	78.35	0.00	0.	0.00
245	0.400	31.53	0.00	0.00	0.00	5.67	5.22	0.00	5.22	0.00	1.22	0.09	0.00	1.31	0.00	62.70	0.00	0.	0.00
246	0.300	31.75	0.00	0.00	0.00	5.67	5.21	0.00	5.21	0.00	1.22	0.09	0.00	1.31	0.00	47.04	0.00	0.	0.00
247	0.200	31.97	0.00	0.00	0.00	5.67	5.20	0.00	5.20	0.00	1.22	0.09	0.00	1.31	0.00	31.39	0.00	0.	0.00
248	0.100	32.18	0.00	0.00	0.00	5.66	5.19	0.00	5.19	0.00	1.22	0.09	0.00	1.31	0.00	15.74	0.00	0.	0.00
249	0.000	32.40	0.00	0.00	0.00	5.66	5.18	0.00	5.18	0.00	1.21	0.09	0.00	1.30	0.00	0.09	0.00	0.	0.00

STREAM SUMMARY Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake de Cade Baseline Simulation for Lake de Cade Theriot and Hache model

TRAVEL TIME = 14.99 DAYS
MAXIMUM EFFLUENT = 0.00 PERCENT
FLOW = 11.23382 TO 14.34643 m³/s
DISPERSION = 0.1000 TO 0.5000 m²/s
VELOCITY = 0.00487 TO 0.73025 m/s
DEPTH = 1.55 TO 1.55 m
WIDTH = 10.00 TO ****** m
BOD DECAY = 0.22 TO 0.55 per day
NH3 DECAY = 0.44 TO 0.51 per day
SOD = 2.41 TO 5.03 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.66 TO 2.13 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.00 TO 0.01 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.10 TO 32.40 deg C
DISSOLVED OXYGEN = 5.06 TO 6.54 mg/L

FINAL REPORT Lake Theriot Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 5 Lake Theriot Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
143	HDWTR	0.00324	30.00	0.00	0.00	0.00	6.90	2.72	0.00	2.72	0.00	0.90	0.10	0.04	0.00	53.00	0.00	0.00
EACH	INCR	0.02000	30.00	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00		

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT m/s	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
143	2.90	2.80	0.02324	0.0	0.00001	96.74	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
144	2.80	2.70	0.04324	0.0	0.00002	51.99	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
145	2.70	2.60	0.06324	0.0	0.00003	35.55	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
146	2.60	2.50	0.08324	0.0	0.00004	27.01	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
147	2.50	2.40	0.10324	0.0	0.00005	21.78	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
148	2.40	2.30	0.12324	0.0	0.00006	18.24	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
149	2.30	2.20	0.14324	0.0	0.00007	15.69	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
150	2.20	2.10	0.16324	0.0	0.00008	13.77	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
151	2.10	2.00	0.18324	0.0	0.00009	12.27	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
152	2.00	1.90	0.20324	0.0	0.00010	11.06	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
153	1.90	1.80	0.22324	0.0	0.00011	10.07	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000

154	1.80	1.70	0.24324	0.0	0.00013	9.24	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
155	1.70	1.60	0.26324	0.0	0.00014	8.54	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
156	1.60	1.50	0.28324	0.0	0.00015	7.94	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
157	1.50	1.40	0.30324	0.0	0.00016	7.41	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
158	1.40	1.30	0.32324	0.0	0.00017	6.96	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
159	1.30	1.20	0.34324	0.0	0.00018	6.55	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
160	1.20	1.10	0.36324	0.0	0.00019	6.19	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
161	1.10	1.00	0.38324	0.0	0.00020	5.87	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
162	1.00	0.90	0.40324	0.0	0.00021	5.58	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
163	0.90	0.80	0.42324	0.0	0.00022	5.31	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
164	0.80	0.70	0.44324	0.0	0.00023	5.07	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
165	0.70	0.60	0.46324	0.0	0.00024	4.85	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
166	0.60	0.50	0.48324	0.0	0.00025	4.65	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000
TOT						398.33			4661760.00	5827200.00					
AVG					0.0001		0.80	2428.00			1942.40				
CUM						398.33									

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	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	
143	2.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
144	2.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
145	2.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
146	2.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
147	2.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
148	2.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
149	2.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
150	2.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
151	2.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
152	1.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
153	1.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
154	1.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
155	1.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
156	1.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
157	1.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
158	1.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
159	1.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
160	1.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
161	1.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
162	0.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
163	0.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
164	0.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
165	0.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
166	0.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.16	0.06	0.00	0.00	0.00	0.00	0.00	2.00		0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00	

* $g/m^2/d$ ** 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 #/100mL	MACRO	COLI	NCM
143	2.800	31.10	0.00	0.00	0.00	6.66	3.67	0.00	3.67	0.00	0.84	0.04	0.00	0.88	0.00	53.00	0.00	0.	0.00

144	2.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.88	0.00	53.00	0.00	0.	0.00
145	2.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
146	2.500	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
147	2.400	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
148	2.300	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
149	2.200	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
150	2.100	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
151	2.000	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
152	1.900	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
153	1.800	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
154	1.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
155	1.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
156	1.500	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
157	1.400	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
158	1.300	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
159	1.200	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
160	1.100	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
161	1.000	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
162	0.900	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
163	0.800	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
164	0.700	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
165	0.600	31.10	0.00	0.00	0.00	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00
166	0.500	31.10	0.00	0.00	0.00	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.87	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake Theriot Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 6 Lake Theriot Discharge Baseline Simulation for Lake de Cade Theriot and Hache 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 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
167	UPR RCH	0.48324	31.10	0.00	0.00	0.00	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.00	53.00	0.00	0.00
EACH	INCR	0.00400	30.00	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	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
167	0.50	0.40	0.48724	0.0	0.01280	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
168	0.40	0.30	0.49124	0.0	0.01290	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
169	0.30	0.20	0.49524	0.0	0.01301	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
170	0.20	0.10	0.49924	0.0	0.01311	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
171	0.10	0.00	0.50324	0.0	0.01322	0.09	1.90	20.00	3808.00	2000.00	38.08	0.00	0.000	0.200	0.013
TOT					0.45				19040.00	10000.00					
AVG				0.0130		1.90	20.00				38.08				
CUM					398.78										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	BKGD SOD *	FULL SOD *	CORR SOD 1/da	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY *	NH3 SRCE 1/da	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
167	0.400	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
168	0.300	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
169	0.200	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
170	0.100	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

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171   0.000 7.42   0.45   0.22 0.00   0.00   0.00 0.00   0.00 4.02 4.02 4.02   0.01 0.00   0.47 0.00   0.00 0.00 4.41 0.00   0.00   0.00   0.00
AVG 20 DEG C RATE    0.37   0.13 0.00   0.00   0.00 0.00   0.00 2.00            0.01 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
167   0.400  31.10 0.00    0.00    0.00  6.80   3.97   0.00   3.97   0.00   0.84   0.05   0.00   0.89   0.00  53.00    0.00      0.   0.00
168   0.300  31.10 0.00    0.00    0.00  6.92   4.22   0.00   4.22   0.00   0.85   0.05   0.00   0.91   0.00  53.00    0.00      0.   0.00
169   0.200  31.10 0.00    0.00    0.00  7.01   4.47   0.00   4.47   0.00   0.86   0.06   0.00   0.92   0.00  53.00    0.00      0.   0.00
170   0.100  31.10 0.00    0.00    0.00  7.05   4.75   0.00   4.75   0.00   0.88   0.07   0.00   0.95   0.00  53.00    0.00      0.   0.00
171   0.000  31.10 0.00    0.00    0.00  6.65   5.34   0.00   5.34   0.00   0.98   0.08   0.00   1.06   0.00  53.00    0.00      0.   0.00
STREAM SUMMARY                                    Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Theriot                                  Baseline Simulation for Lake de Cade Theriot and Hache model
TRAVEL TIME      =        398.78 DAYS
MAXIMUM EFFLUENT  =          0.00 PERCENT
FLOW            =  0.02324 TO    0.50324   m³/s
DISPERSION       =  0.0000  TO    0.2000    m²/s
VELOCITY         =  0.00001 TO    0.01322   m/s
DEPTH           =  0.80    TO    1.90      m
WIDTH           =  20.00    TO  ******      m
BOD DECAY        =    0.10   TO    0.22      per day
NH3 DECAY        =    0.47   TO    0.47      per day
SOD             =    4.02   TO    4.02      g/m²/d
NH3 SOURCE       =    0.00   TO    0.00      g/m²/d
REAERATION       =    0.45   TO    1.43      per day
BOD SETTLING     =    0.00   TO    0.00      per day
ORG-N DECAY      =    0.01   TO    0.01      per day
ORG-N SETTLING   =    0.00   TO    0.00      per day
TEMPERATURE      =   31.10   TO   31.10      deg C
DISSOLVED OXYGEN =    6.65   TO    7.05      mg/L
FINAL REPORT    Lake Hache                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 10    Lake Hache                         Baseline Simulation for Lake de Cade Theriot and Hache model
************************************************************ REACH INPUTS ************************************************************
ELEM  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
NO.                deg C     ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
233  HDWTR    0.00033   30.00    0.00    0.00    0.00   8.70  60.00   0.00  60.00   0.00   2.10   0.10   0.04   0.00  94.00    0.00    0.00
EACH  INCR    0.00988   30.00    0.00    0.00    0.00   5.00  60.00   0.00              2.40   1.00   0.04   0.00    0.00    0.00
************************************************ HYDRAULIC PARAMETER VALUES ************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
NO.   DIST   DIST          EFF    VELO     TIME                     AREA    AREA    PRISM    VELO           VELO
      km     km      m³/s          m/s    days      m      m      m³      m²      m²      m³     m/s     m²/s    m/s
233   1.10   1.00   0.01021   0.0   0.00001   82.47   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
234   1.00   0.90   0.02009   0.0   0.00003   41.91   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
235   0.90   0.80   0.02997   0.0   0.00004   28.10   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
236   0.80   0.70   0.03985   0.0   0.00005   21.13   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
237   0.70   0.60   0.04973   0.0   0.00007   16.93   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
238   0.60   0.50   0.05961   0.0   0.00008   14.13   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
239   0.50   0.40   0.06949   0.0   0.00010   12.12   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
240   0.40   0.30   0.07937   0.0   0.00011   10.61   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
241   0.30   0.20   0.08925   0.0   0.00012    9.43   0.75  970.00  72750.00  97000.00  727.50    0.00   0.000    0.000   0.000
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 242   0.20   0.10   0.09913  0.0  0.00014    8.49   0.75  970.00  72750.00   97000.00  727.50     0.00  0.000    0.000  0.000
 TOT                                245.32            727500.00  970000.00
 AVG                          0.0000          0.75  970.00                 727.50
 CUM                                245.32
********************************************** 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  1/da
233   1.000  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
234   0.900  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
235   0.800  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
236   0.700  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
237   0.600  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
238   0.500  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
239   0.400  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
240   0.300  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
241   0.200  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
242   0.100  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.24  0.01  0.00  0.00  0.00  0.00  0.00  2.00            0.00  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
233   1.000  31.10  0.00    0.00    0.00  8.68  25.28  0.00  25.28  0.00  1.83  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
234   0.900  31.10  0.00    0.00    0.00  8.68  24.95  0.00  24.95  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
235   0.800  31.10  0.00    0.00    0.00  8.68  24.87  0.00  24.87  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
236   0.700  31.10  0.00    0.00    0.00  8.68  24.84  0.00  24.84  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
237   0.600  31.10  0.00    0.00    0.00  8.68  24.83  0.00  24.83  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
238   0.500  31.10  0.00    0.00    0.00  8.68  24.82  0.00  24.82  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
239   0.400  31.10  0.00    0.00    0.00  8.68  24.82  0.00  24.82  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
240   0.300  31.10  0.00    0.00    0.00  8.68  24.81  0.00  24.81  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
241   0.200  31.10  0.00    0.00    0.00  8.68  24.81  0.00  24.81  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00      0.   0.00
242   0.100  31.10  0.00    0.00    0.00  8.65  21.71  0.00  21.71  0.00  1.73  0.04  0.00  1.77  0.00  94.00   0.00      0.   0.00
FINAL REPORT    Lake Hache                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 11    Lake Hache Discharge                     Baseline Simulation for Lake de Cade Theriot and Hache model
********************************************************** REACH INPUTS **********************************************************
ELEM  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
NO.                   deg C     ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
 243  UPR RCH   0.09913   31.10    0.00    0.00    0.00  8.65  21.71  0.00  21.71  0.00  1.73  0.04  0.00  0.00  94.00    0.00    0.00
EACH  INCR     0.01420   30.00    0.00    0.00    0.00  5.00  45.00  0.00             2.00  1.00  0.04  0.00    0.00    0.00
********************************************************** HYDRAULIC PARAMETER VALUES **********************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
 NO.   DIST   DIST          EFF    VELO     TIME                          AREA   AREA    PRISM   VELO           VELO
       km     km       m³/s          m/s    days     m      m       m³       m²     m²       m³    m/s    m²/s    m/s
 243   0.10   0.00   0.11333  0.0  0.00146    0.79   1.55   50.00  7750.00   5000.00  77.50     0.00  0.000    0.100  0.001
 TOT                                0.79             7750.00   5000.00
 AVG                          0.0015          1.55   50.00                  77.50
 CUM                                246.11
********************************************** 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
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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  1/da
243   0.000 7.42   0.55  0.52 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 7.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.45  0.31 0.00  0.00  0.00 0.00  0.00 2.00           0.01 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
243   0.000 31.10 0.00    0.00    0.00  6.67  12.66  0.00 12.66  0.00  1.48  0.10  0.00  1.58  0.00 94.00   0.00      0.   0.00
STREAM SUMMARY                                  Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Hache                                  Baseline Simulation for Lake de Cade Theriot and Hache model
TRAVEL TIME      =        246.11 DAYS
MAXIMUM EFFLUENT  =         0.00 PERCENT
FLOW           =  0.01021 TO   0.11333   m³/s
DISPERSION       =  0.0000  TO   0.1000   m²/s
VELOCITY         =  0.00001 TO   0.00146   m/s
DEPTH          =  0.75   TO   1.55     m
WIDTH          =  50.00   TO  970.00     m
BOD DECAY       =   0.02   TO   0.52     per day
NH3 DECAY       =   0.47   TO   0.48     per day
SOD            =   4.02   TO   4.02     g/m²/d
NH3 SOURCE       =   0.00   TO   0.00     g/m²/d
REAERATION       =   0.55   TO   1.52     per day
BOD SETTLING     =   0.00   TO   0.00     per day
ORG-N DECAY      =   0.00   TO   0.01     per day
ORG-N SETTLING   =   0.00   TO   0.00     per day
TEMPERATURE      =  31.10   TO  31.10     deg C
DISSOLVED OXYGEN  =   6.67   TO   8.68     mg/L
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Baseline Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake de Cade
RCH REACH NAME                    BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
NO.                          DIST    DIST  LENGTH   TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                            km      km     km     days    m3/s      m/s     m      m     cfs      fps     ft     ft
  1 Lake Hache incl 937              20.90    16.30   4.60     9.78  14.34643   0.00544   1.550 1527.00  506.572     0.018   5.086 5010.09
  2 Lake Hache incl 120406-B          16.30    13.20   3.10     4.51  11.23382   0.00795   1.550 1029.00  396.666     0.026   5.086 3376.15
  3 L. Hache-405/406 boundary         13.20     9.30   3.90     0.16  11.31881   0.29103   1.550   25.00  399.667     0.955   5.086   82.02
  4 405/406 boundary to L. Theriot     9.30     6.70   2.60     0.04  11.31881   0.73025   1.550   10.00  399.667     2.396   5.086   32.81
  7 L. Theriot to Mandalay WR Bndy     6.70     2.30   4.40     0.31  11.82205   0.16581   1.550   46.00  417.437     0.544   5.086  150.93
  8 Mandalay WR Bndy to constriction   2.30     1.50   0.80     0.13  11.82205   0.06934   1.550  110.00  417.437     0.227   5.086  360.91
  9 constriction to Lake Hache inflo   1.50     0.60   0.90     0.04  11.82205   0.25424   1.550   30.00  417.437     0.834   5.086   98.43
 12 Lake Hache inflow to 406 boundar   0.60     0.00   0.60     0.02  11.93538   0.38501   1.550   20.00  421.438     1.263   5.086   65.62
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Baseline Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake Theriot
RCH REACH NAME                    BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
NO.                          DIST    DIST  LENGTH   TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                            km      km     km     days    m3/s      m/s     m      m     cfs      fps     ft     ft
  5 Lake Theriot                      2.90     0.50   2.40   398.33  0.48324   0.00007   0.800 2428.00   17.063     0.000   2.625 7966.27
  6 Lake Theriot Discharge            0.50     0.00   0.50     0.45  0.50324   0.01300   1.904   20.00   17.769     0.043   6.247   65.62
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Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Baseline Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake Hache

RCH NO.	REACH NAME	DIST km	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
10	Lake Hache	1.10	0.10	1.00	245.32	0.09913	0.00005	0.750	970.00	3.500	0.000	2.461	3182.57	
11	Lake Hache Discharge	0.10	0.00	0.10	0.79	0.11333	0.00146	1.550	50.00	4.002	0.005	5.086	164.05	

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

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	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
1	6435.	0.	-6463.	0.	0.	-2.	28.	-1.	0.	0.	0.	161.	-140.	-44.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7018.5	7018.5	-0.07
2	6463.	0.	-6496.	2.	0.	-1.	28.	-1.	0.	0.	0.	161.	-140.	-42.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7048.7	7048.6	-0.07
3	6496.	0.	-6530.	1.	0.	0.	28.	-1.	0.	0.	0.	161.	-140.	-41.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7080.7	7080.7	-0.06
4	6530.	0.	-6566.	0.	0.	1.	28.	-1.	0.	0.	0.	161.	-140.	-39.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7115.0	7114.9	-0.06
5	6566.	0.	-6602.	-1.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-38.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7150.8	7150.7	-0.06
6	6602.	0.	-6639.	-2.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-37.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7187.1	7187.0	-0.06
7	6639.	0.	-6676.	-2.	0.	2.	28.	-1.	0.	0.	0.	161.	-140.	-36.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7223.8	7223.8	-0.06
8	6676.	0.	-6713.	-2.	0.	3.	28.	-1.	0.	0.	0.	160.	-140.	-35.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7260.9	7260.8	-0.06
9	6713.	0.	-6751.	-3.	0.	3.	28.	-1.	0.	0.	0.	160.	-140.	-34.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7298.1	7298.0	-0.06
10	6751.	0.	-6789.	-3.	0.	3.	28.	-1.	0.	0.	0.	159.	-140.	-34.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7335.5	7335.4	-0.05
11	6789.	0.	-6827.	-3.	0.	3.	28.	-1.	0.	0.	0.	159.	-140.	-33.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7373.0	7372.9	-0.05
12	6827.	0.	-6865.	-3.	0.	3.	28.	-1.	0.	0.	0.	159.	-140.	-32.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7410.5	7410.4	-0.05
13	6865.	0.	-6903.	-3.	0.	3.	28.	-1.	0.	0.	0.	158.	-141.	-32.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7448.0	7448.0	-0.05
14	6903.	0.	-6941.	-3.	0.	3.	28.	-1.	0.	0.	0.	158.	-141.	-31.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7485.6	7485.5	-0.05
15	6941.	0.	-6979.	-3.	0.	2.	28.	-1.	0.	0.	0.	157.	-141.	-31.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7523.1	7523.0	-0.05
16	6979.	0.	-7017.	-2.	0.	2.	28.	-1.	0.	0.	0.	157.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7560.5	7560.4	-0.05
17	7017.	0.	-7055.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7597.9	7597.8	-0.05
18	7055.	0.	-7093.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-30.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7635.2	7635.1	-0.05
19	7093.	0.	-7130.	-2.	0.	2.	28.	-1.	0.	0.	0.	156.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7672.4	7672.3	-0.05
20	7130.	0.	-7168.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7709.5	7709.4	-0.05
21	7168.	0.	-7205.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7746.5	7746.5	-0.05
22	7205.	0.	-7242.	-2.	0.	2.	28.	-1.	0.	0.	0.	155.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7783.4	7783.4	-0.05
23	7242.	0.	-7279.	-2.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-29.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7820.3	7820.3	-0.05
24	7279.	0.	-7316.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7857.1	7857.0	-0.05
25	7316.	0.	-7353.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7893.7	7893.7	-0.05
26	7353.	0.	-7390.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7930.3	7930.3	-0.05
27	7390.	0.	-7427.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7966.9	7966.8	-0.05
28	7427.	0.	-7463.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8003.3	8003.3	-0.05
29	7463.	0.	-7500.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8039.7	8039.7	-0.05
30	7500.	0.	-7536.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8076.0	8076.0	-0.04
31	7536.	0.	-7573.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8112.3	8112.3	-0.05
32	7573.	0.	-7609.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8148.5	8148.5	-0.04
33	7609.	0.	-7645.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8184.7	8184.6	-0.05
34	7645.	0.	-7682.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8220.8	8220.7	-0.05
35	7682.	0.	-7718.	-1.	0.	1.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8256.8	8256.8	-0.05
36	7718.	0.	-7754.	-1.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8292.8	8292.8	-0.04
37	7754.	0.	-7790.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8328.7	8328.7	-0.04
38	7790.	0.	-7826.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8364.6	8364.6	-0.04
39	7826.	0.	-7862.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8400.4	8400.3	-0.04

40	7862.	0.	-7897.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8436.0	8436.0	-0.04
41	7897.	0.	-7933.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8471.8	8471.7	-0.05
42	7933.	0.	-7968.	0.	0.	-1.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8507.7	8507.7	-0.04
43	7968.	0.	-8002.	1.	0.	-3.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8543.8	8543.8	-0.04
44	8002.	0.	-8033.	3.	0.	-7.	28.	-1.	0.	0.	0.	153.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8580.1	8580.1	-0.04
45	8033.	0.	-8060.	7.	0.	-16.	28.	-1.	0.	0.	0.	154.	-144.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8617.0	8616.9	-0.04
46	8060.	0.	-8077.	16.	0.	-33.	28.	-1.	0.	0.	0.	157.	-147.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8654.9	8654.8	-0.05
47	8077.	0.	-7972.	33.	0.	-30.	42.	-110.	0.	0.	0.	110.	-105.	-20.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8527.4	8527.4	-0.03
48	7972.	0.	-7862.	30.	0.	-31.	42.	-109.	0.	0.	0.	115.	-112.	-21.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8425.1	8425.1	-0.03
49	7862.	0.	-7751.	31.	0.	-32.	42.	-109.	0.	0.	0.	121.	-118.	-21.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8321.4	8321.4	-0.04
50	7751.	0.	-7640.	32.	0.	-33.	42.	-108.	0.	0.	0.	126.	-124.	-22.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8216.8	8216.8	-0.03
51	7640.	0.	-7528.	33.	0.	-33.	42.	-107.	0.	0.	0.	132.	-130.	-23.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8111.6	8111.5	-0.04
52	7528.	0.	-7417.	33.	0.	-33.	42.	-106.	0.	0.	0.	137.	-136.	-24.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8006.0	8005.9	-0.03
53	7417.	0.	-7305.	33.	0.	-34.	42.	-105.	0.	0.	0.	143.	-142.	-24.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7900.3	7900.3	-0.03
54	7305.	0.	-7194.	34.	0.	-34.	42.	-105.	0.	0.	0.	149.	-147.	-25.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7794.9	7794.9	-0.03
55	7194.	0.	-7084.	34.	0.	-34.	42.	-104.	0.	0.	0.	155.	-153.	-26.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7689.9	7689.8	-0.03
56	7084.	0.	-6975.	34.	0.	-34.	42.	-103.	0.	0.	0.	160.	-158.	-26.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7585.5	7585.4	-0.03
57	6975.	0.	-6867.	34.	0.	-33.	42.	-102.	0.	0.	0.	166.	-163.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7481.8	7481.8	-0.03
58	6867.	0.	-6760.	33.	0.	-33.	42.	-101.	0.	0.	0.	172.	-168.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7379.0	7379.0	-0.03
59	6760.	0.	-6654.	33.	0.	-33.	42.	-100.	0.	0.	0.	177.	-173.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7277.3	7277.3	-0.03

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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
60	6654.	0.	-6549.	33.	0.	-32.	42.	-100.	0.	0.	0.	183.	-177.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7176.8	7176.8	-0.03
61	6549.	0.	-6446.	32.	0.	-32.	42.	-99.	0.	0.	0.	188.	-182.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7077.5	7077.4	-0.03
62	6446.	0.	-6345.	32.	0.	-32.	42.	-98.	0.	0.	0.	194.	-186.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6979.5	6979.4	-0.03
63	6345.	0.	-6245.	32.	0.	-31.	42.	-97.	0.	0.	0.	199.	-191.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6882.9	6882.8	-0.03
64	6245.	0.	-6147.	31.	0.	-30.	42.	-96.	0.	0.	0.	205.	-195.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6787.7	6787.7	-0.03
65	6147.	0.	-6050.	30.	0.	-30.	42.	-96.	0.	0.	0.	210.	-199.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6694.0	6694.0	-0.02
66	6050.	0.	-5955.	30.	0.	-29.	42.	-95.	0.	0.	0.	215.	-203.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6601.8	6601.8	-0.02
67	5955.	0.	-5862.	29.	0.	-29.	42.	-94.	0.	0.	0.	220.	-206.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6511.1	6511.1	-0.02
68	5862.	0.	-5770.	29.	0.	-28.	42.	-94.	0.	0.	0.	225.	-210.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6422.0	6422.0	-0.02
69	5770.	0.	-5680.	28.	0.	-27.	42.	-93.	0.	0.	0.	229.	-214.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6334.5	6334.5	-0.02
70	5680.	0.	-5592.	27.	0.	-27.	42.	-92.	0.	0.	0.	234.	-217.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6248.5	6248.5	-0.02
71	5592.	0.	-5505.	27.	0.	-26.	42.	-92.	0.	0.	0.	239.	-220.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6164.1	6164.0	-0.02
72	5505.	0.	-5420.	26.	0.	-25.	42.	-91.	0.	0.	0.	243.	-224.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6081.1	6081.1	-0.02
73	5420.	0.	-5337.	25.	0.	-24.	42.	-90.	0.	0.	0.	247.	-227.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5999.8	5999.7	-0.01
74	5337.	0.	-5256.	24.	0.	-23.	42.	-90.	0.	0.	0.	251.	-230.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5919.8	5919.8	-0.01
75	5256.	0.	-5178.	23.	0.	-20.	42.	-89.	0.	0.	0.	255.	-232.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5841.2	5841.2	-0.01
76	5178.	0.	-5103.	20.	0.	-15.	42.	-89.	0.	0.	0.	259.	-235.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5763.7	5763.7	-0.01
77	5103.	0.	-5037.	15.	0.	-2.	42.	-88.	0.	0.	0.	261.	-236.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5686.7	5686.7	-0.01
78	5037.	0.	-5032.	2.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-5059.1	5059.1	0.00
79	5032.	0.	-5025.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-5051.7	5051.7	0.00
80	5025.	0.	-5017.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-5044.6	5044.6	0.00
81	5017.	0.	-5011.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-5037.8	5037.8	0.00
82	5011.	0.	-5004.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-5031.3	5031.3	0.00
83	5004.	0.	-4998.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-5025.2	5025.2	0.00
84	4998.	0.	-4992.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-5019.4	5019.4	0.00
85	4992.	0.	-4987.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-5013.9	5013.9	0.00
86	4987.	0.	-4982.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-5008.7	5008.7	0.00

87	4982.	0.	-4977.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-5003.8	5003.8	0.00
88	4977.	0.	-4972.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-4999.3	4999.3	0.00
89	4972.	0.	-4968.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-4995.0	4995.0	0.00
90	4968.	0.	-4964.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-4991.1	4991.1	0.00
91	4964.	0.	-4960.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-4987.4	4987.4	0.00
92	4960.	0.	-4957.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-4984.1	4984.1	0.00
93	4957.	0.	-4954.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-4981.1	4981.1	0.00
94	4954.	0.	-4951.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-4978.3	4978.3	0.00
95	4951.	0.	-4949.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-4975.9	4975.9	0.00
96	4949.	0.	-4947.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-4973.8	4973.8	0.00
97	4947.	0.	-4945.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-4971.9	4971.9	0.00
98	4945.	0.	-4943.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-4970.4	4970.4	0.00
99	4943.	0.	-4942.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-4969.1	4969.1	0.00
100	4942.	0.	-4941.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-4968.2	4968.2	0.00
101	4941.	0.	-4941.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-4967.5	4967.5	0.00
102	4941.	0.	-4940.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-4967.1	4967.1	0.00
103	4940.	0.	-4940.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-4967.0	4967.0	0.00
104	4940.	0.	-4940.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-4967.2	4967.2	0.00
105	4940.	0.	-4941.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-4967.7	4967.7	0.00
106	4941.	0.	-4942.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-4968.4	4968.4	0.00
107	4942.	0.	-4943.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-4969.5	4969.5	0.00
108	4943.	0.	-4944.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-4970.8	4970.8	0.00
109	4944.	0.	-4946.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-4972.4	4972.4	0.00
110	4946.	0.	-4947.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-4974.3	4974.3	0.00
111	4947.	0.	-4950.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-4976.4	4976.4	0.00
112	4950.	0.	-4952.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-4978.8	4978.8	0.00
113	4952.	0.	-4955.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-4981.5	4981.5	0.00
114	4955.	0.	-4958.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-4984.5	4984.5	0.00
115	4958.	0.	-4961.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-4987.7	4987.7	0.00
116	4961.	0.	-4964.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-4991.2	4991.2	0.00
117	4964.	0.	-4969.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-4979.0	4979.0	0.00
118	4969.	0.	-4974.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-4983.8	4983.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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	4974.	0.	-4979.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-4988.6	4988.6	0.00
120	4979.	0.	-4984.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-4993.5	4993.5	0.00
121	4984.	0.	-4989.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-4998.3	4998.3	0.00
122	4989.	0.	-4993.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5003.1	5003.1	0.00
123	4993.	0.	-4998.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5007.9	5007.9	0.00
124	4998.	0.	-5003.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5012.6	5012.6	0.00
125	5003.	0.	-5008.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5017.4	5017.4	0.00
126	5008.	0.	-5012.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5022.1	5022.1	0.00
127	5012.	0.	-5017.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5026.9	5026.9	0.00
128	5017.	0.	-5022.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5031.6	5031.6	0.00
129	5022.	0.	-5027.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5036.3	5036.3	0.00
130	5027.	0.	-5031.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5041.0	5041.0	0.00
131	5031.	0.	-5036.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5045.7	5045.7	0.00
132	5036.	0.	-5041.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5050.4	5050.4	0.00
133	5041.	0.	-5045.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5055.1	5055.1	0.00

134	5045.	0.	-5050.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5059.7	5059.7	0.00
135	5050.	0.	-5055.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5064.4	5064.4	0.00
136	5055.	0.	-5059.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5069.0	5069.0	0.00
137	5059.	0.	-5064.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5073.6	5073.6	0.00
138	5064.	0.	-5069.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5078.3	5078.3	0.00
139	5069.	0.	-5073.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5082.9	5082.9	0.00
140	5073.	0.	-5078.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5087.5	5087.5	0.00
141	5078.	0.	-5082.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5092.0	5092.0	0.00
142	5082.	0.	-5087.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-5.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-5097.0	5097.0	0.00
172	5087.	289.	-5403.	0.	24.	0.	0.	0.	0.	0.	0.	15.	-24.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5447.7	5447.7	0.00
173	5403.	0.	-5407.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-24.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5450.3	5450.3	0.00
174	5407.	0.	-5410.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-24.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5453.5	5453.5	0.00
175	5410.	0.	-5413.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-24.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5456.7	5456.7	0.00
176	5413.	0.	-5417.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5460.0	5460.0	0.00
177	5417.	0.	-5420.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5463.4	5463.4	0.00
178	5420.	0.	-5424.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5466.8	5466.8	0.00
179	5424.	0.	-5427.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5470.3	5470.3	0.00
180	5427.	0.	-5431.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5473.8	5473.8	0.00
181	5431.	0.	-5434.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5477.4	5477.4	0.00
182	5434.	0.	-5438.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5481.1	5481.1	0.00
183	5438.	0.	-5442.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5484.8	5484.8	0.00
184	5442.	0.	-5446.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5488.6	5488.6	0.00
185	5446.	0.	-5450.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5492.4	5492.4	0.00
186	5450.	0.	-5454.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5496.3	5496.3	0.00
187	5454.	0.	-5458.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-23.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5500.3	5500.3	0.00
188	5458.	0.	-5462.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5504.3	5504.3	0.00
189	5462.	0.	-5466.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5508.3	5508.3	0.00
190	5466.	0.	-5470.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5512.4	5512.4	0.00
191	5470.	0.	-5474.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5516.6	5516.6	0.00
192	5474.	0.	-5479.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5520.8	5520.8	0.00
193	5479.	0.	-5483.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5525.1	5525.1	0.00
194	5483.	0.	-5487.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5529.4	5529.4	0.00
195	5487.	0.	-5492.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5533.8	5533.8	0.00
196	5492.	0.	-5496.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5538.2	5538.2	0.00
197	5496.	0.	-5501.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5542.6	5542.6	0.00
198	5501.	0.	-5506.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5547.2	5547.2	0.00
199	5506.	0.	-5510.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5551.7	5551.7	0.00
200	5510.	0.	-5515.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-22.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5556.3	5556.3	0.00
201	5515.	0.	-5520.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5561.0	5561.0	0.00
202	5520.	0.	-5524.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5565.7	5565.7	0.00
203	5524.	0.	-5529.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5570.4	5570.4	0.00
204	5529.	0.	-5534.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5575.2	5575.2	0.00
205	5534.	0.	-5539.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5580.1	5580.1	0.00
206	5539.	0.	-5544.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5584.9	5584.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

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
207	5544.	0.	-5549.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5589.9	5589.9	0.00	
208	5549.	0.	-5554.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5594.8	5594.8	0.00	
209	5554.	0.	-5559.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5599.8	5599.8	0.00	

210	5559.	0.	-5564.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5604.9	5604.9	0.00
211	5564.	0.	-5569.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5610.0	5610.0	0.00
212	5569.	0.	-5575.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5615.1	5615.1	0.00
213	5575.	0.	-5580.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-21.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5620.3	5620.3	0.00
214	5580.	0.	-5585.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5625.5	5625.5	0.00
215	5585.	0.	-5590.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-20.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-5630.7	5630.7	0.00
216	5590.	0.	-5592.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-48.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5687.5	5687.5	0.00
217	5592.	0.	-5593.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-48.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5688.7	5688.7	0.00
218	5593.	0.	-5595.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-48.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5690.3	5690.3	0.00
219	5595.	0.	-5598.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-47.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5692.4	5692.4	0.00
220	5598.	0.	-5601.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-47.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5694.8	5694.8	0.00
221	5601.	0.	-5604.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-46.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5697.6	5697.6	0.00
222	5604.	0.	-5607.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-46.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5700.8	5700.8	0.00
223	5607.	0.	-5611.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-46.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-5704.3	5704.3	0.00
224	5611.	0.	-5620.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	22.	0.	0.	-5645.0	5645.0	0.00
225	5620.	0.	-5630.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	24.	0.	0.	-5654.8	5654.8	0.00
226	5630.	0.	-5641.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	26.	0.	0.	-5666.5	5666.5	0.00
227	5641.	0.	-5655.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	28.	0.	0.	-5679.8	5679.8	0.00
228	5655.	0.	-5670.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	29.	0.	0.	-5694.9	5694.9	0.00
229	5670.	0.	-5686.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	31.	0.	0.	-5711.7	5711.7	0.00
230	5686.	0.	-5705.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	33.	0.	0.	-5730.1	5730.1	0.00
231	5705.	0.	-5725.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-12.	-1.	0.	0.	-12.	0.	0.	0.	35.	0.	0.	-5750.3	5750.3	0.00
232	5725.	0.	-5747.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-12.	-1.	0.	0.	-12.	0.	0.	0.	36.	0.	0.	-5772.1	5772.1	0.00
244	5747.	65.	-5837.	0.	13.	0.	0.	0.	0.	0.	0.	8.	-8.	-1.	0.	0.	-8.	0.	0.	0.	20.	0.	0.	-5854.1	5854.1	0.00
245	5837.	0.	-5844.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-5861.6	5861.6	0.00
246	5844.	0.	-5847.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-1.	0.	0.	-8.	0.	0.	0.	13.	0.	0.	-5864.8	5864.8	0.00
247	5847.	0.	-5846.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-1.	0.	0.	-8.	0.	0.	0.	8.	0.	0.	-5863.7	5863.7	0.00
248	5846.	0.	-5840.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-1.	0.	0.	-9.	0.	0.	0.	4.	0.	0.	-5858.1	5858.1	0.00
249	5840.	0.	-5832.	0.	0.	2.	0.	0.	0.	0.	0.	8.	-9.	-1.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-5850.4	5850.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Lake Theriot

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
143	2.	0.	-13.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1077.5	1077.5	-0.03
144	13.	0.	-25.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1089.1	1089.1	-0.03
145	25.	0.	-36.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1100.6	1100.6	-0.03
146	36.	0.	-48.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1112.1	1112.1	-0.03
147	48.	0.	-59.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1123.7	1123.6	-0.03
148	59.	0.	-71.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1135.2	1135.1	-0.03
149	71.	0.	-82.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1146.7	1146.6	-0.03
150	82.	0.	-94.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1158.2	1158.1	-0.03
151	94.	0.	-105.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1169.7	1169.6	-0.03
152	105.	0.	-117.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1181.2	1181.1	-0.03
153	117.	0.	-128.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1192.7	1192.7	-0.03
154	128.	0.	-140.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1204.2	1204.2	-0.03
155	140.	0.	-151.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1215.7	1215.7	-0.03
156	151.	0.	-163.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1227.2	1227.2	-0.03
157	163.	0.	-174.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1238.7	1238.7	-0.03
158	174.	0.	-186.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1250.2	1250.2	-0.03
159	186.	0.	-197.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1261.7	1261.7	-0.03
160	197.	0.	-209.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1273.2	1273.2	-0.03

161	209.	0.	-220.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1284.7	1284.7	-0.03
162	220.	0.	-232.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1296.2	1296.2	-0.03
163	232.	0.	-243.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1307.7	1307.7	-0.03
164	243.	0.	-255.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1319.2	1319.2	-0.03
165	255.	0.	-266.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1330.7	1330.7	-0.03
166	266.	0.	-278.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-72.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1342.6	1342.6	-0.03
167	278.	0.	-286.	0.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-298.4	298.4	0.00
168	286.	0.	-294.	-1.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-306.2	306.2	0.00
169	294.	0.	-300.	-1.	0.	0.	2.	0.	0.	0.	0.	1.	-4.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-313.0	313.0	0.00
170	300.	0.	-304.	0.	0.	-3.	2.	0.	0.	0.	0.	1.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-319.3	319.3	0.00
171	304.	0.	-289.	3.	0.	-24.	2.	0.	0.	0.	0.	1.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-326.4	326.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 3: Lake Hache

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	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
233	0.	0.	-8.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-31.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-573.8	573.8	-0.01
234	8.	0.	-15.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-581.2	581.2	-0.01
235	15.	0.	-22.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-588.7	588.6	-0.01
236	22.	0.	-30.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-596.1	596.1	-0.01
237	30.	0.	-37.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-603.5	603.5	-0.01
238	37.	0.	-45.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-610.9	610.9	-0.01
239	45.	0.	-52.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-618.3	618.3	-0.01
240	52.	0.	-60.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-625.7	625.7	-0.01
241	60.	0.	-67.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-633.1	633.1	-0.01
242	67.	0.	-74.	0.	0.	-7.	4.	0.	0.	0.	0.	-137.	-26.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-640.5	640.5	-0.02
243	74.	0.	-65.	7.	0.	-13.	6.	0.	0.	0.	0.	3.	-51.	-2.	0.	0.	-20.	0.	0.	0.	61.	0.	0.	-150.8	150.8	0.00

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

Baseline Simulation for Lake de Cade Theriot and Hache model

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	11.463	6437.5	2695.4	0.0	792.4	99.0	39.6	0.0	0.0	0.0
INCREMENTAL INFLOW	6.673	2882.7	21794.2	0.0	1185.9	576.5	23.1	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-6.200	-3107.3	-2788.5	0.0	-597.3	-47.3	0.0	0.0	0.0	0.0
WASTELOADS	0.000	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-11.935	-5832.3	-5342.7	0.0	-1251.8	-93.0	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		2.4	-2.6	0.0	-6.5	0.1	0.2	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	0.0	0.0	0.0					0.0
NATURAL REAERATION		18376.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-55273.7								
BOD#1 DECAY		-16356.8	-16356.8							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-122.7	122.7				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-2853.5				-659.0	659.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		

ALGAE PHOTOSYNTHESIS		55720.3				0.0	-2786.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	18.135	83419.6	24490.6	0.0	1978.3	798.4	721.9	0.0	0.0	0.0
TOTAL OUTPUTS	-18.135	-83423.6	-24490.5	0.0	-1978.3	-799.3	-2786.0	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-4.0	0.0	0.0	0.0	-0.9	-2064.1	0.0	0.0	0.0

.....EXECUTION COMPLETED