APPENDIX A

Maps of the Study Area

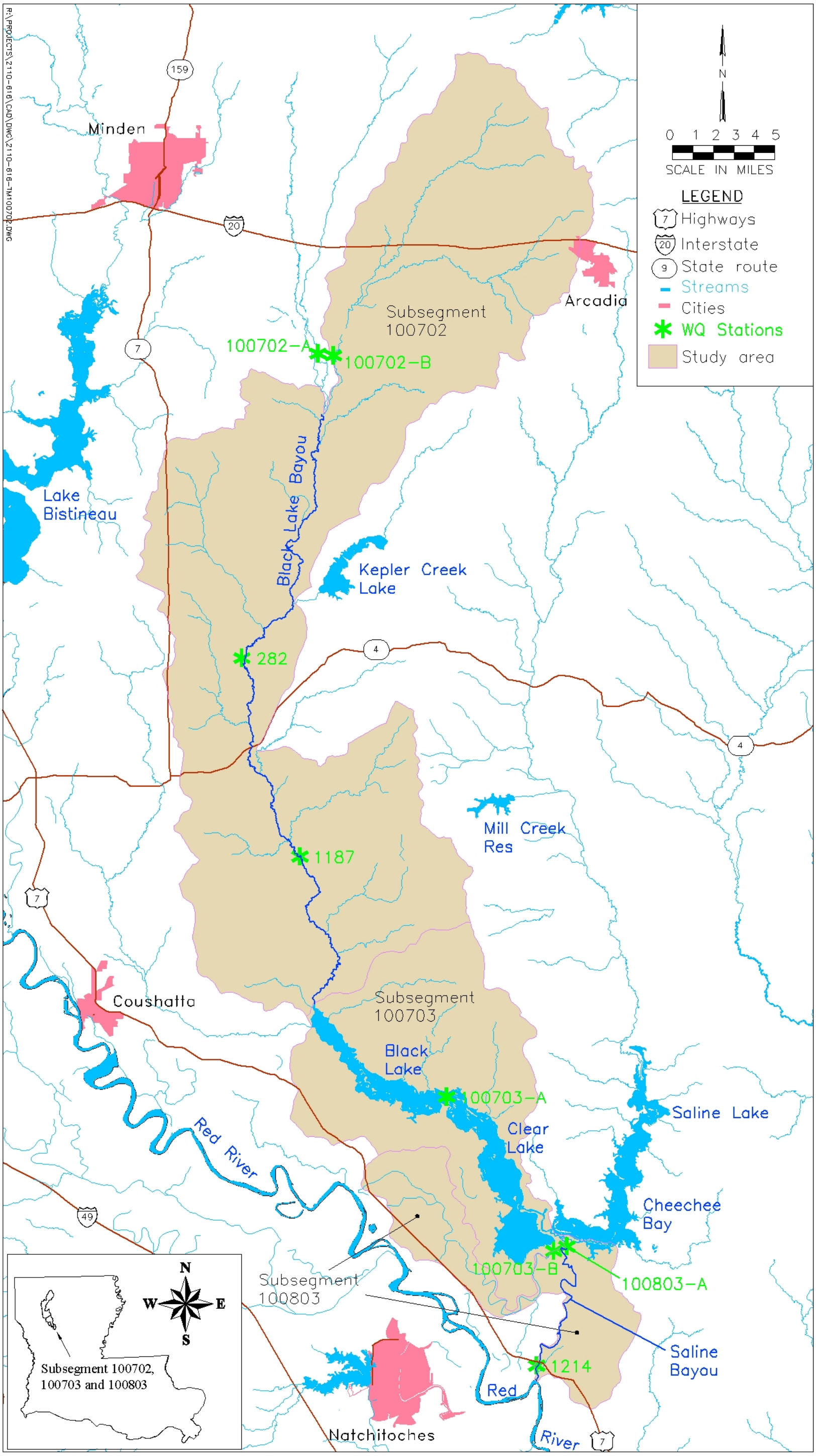
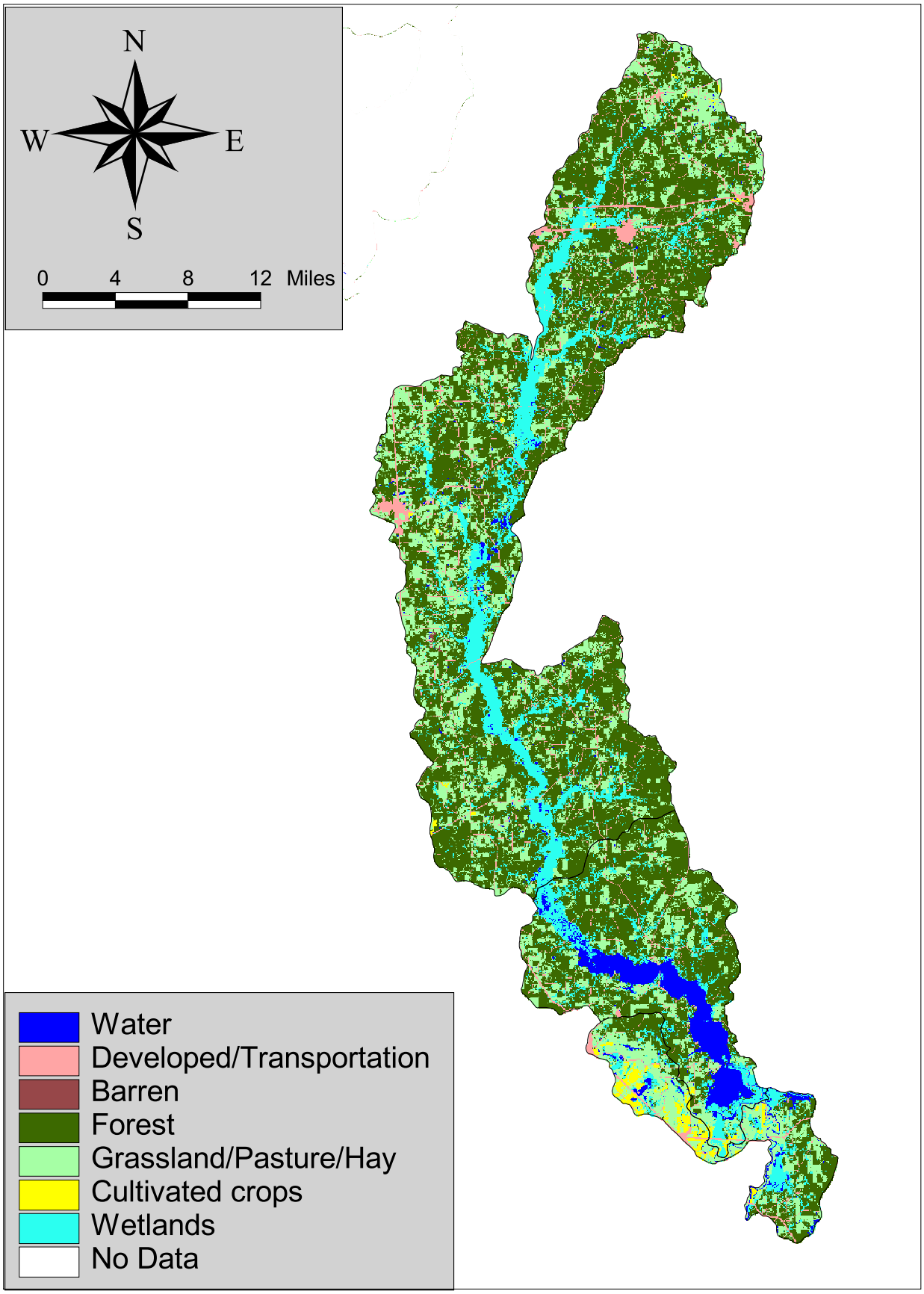


Figure A.1. Map of study area.



Fgiure A.2. Landuse for subsegments 100702, 100703, and 100803.

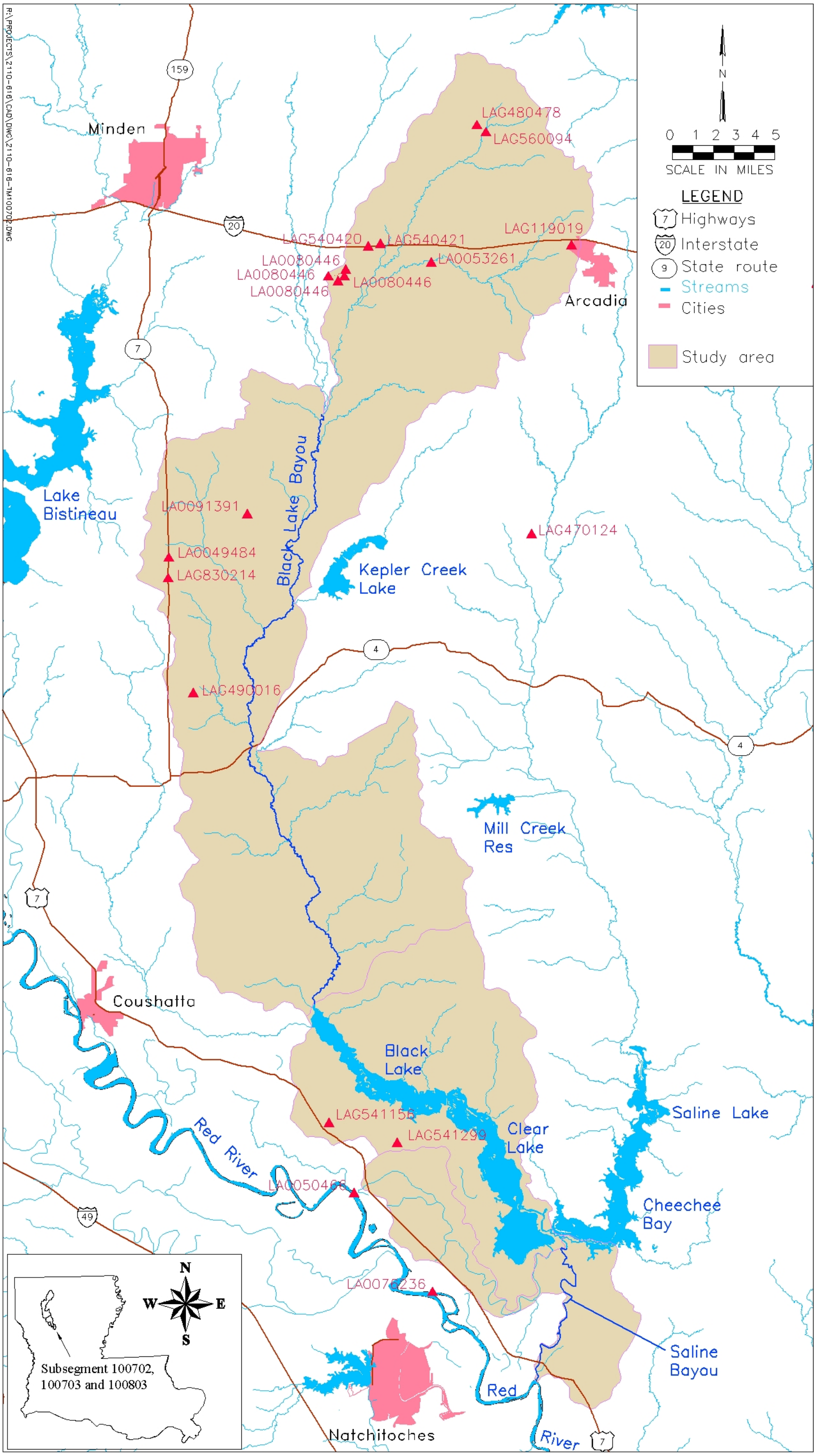


Figure A.3. Point sources in subsegment 100702, 100703 and 100803.

APPENDIX B

LDEQ Routine Monitoring Data

Table B.1. LDEQ historical data collected on Black Lake Bayou southeast of Dubberly (1186).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
14-Jan-02	10:53	1	9.57
18-Feb-02	10:15	1	9.58
18-Mar-02	10:16	1	7.23
8-Apr-02	10:34	1	7.53
13-May-02	10:05	1	3.69
10-Jun-02	10:00	0.5	0.76
15-Jul-02	10:30	1	1.12
12-Aug-02	9:45	1	1.70
16-Sep-02	10:00	1	1.67
14-Oct-02	10:25	1	5.16
12-Nov-02	10:00	1	6.00

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Table B.2. LDEQ DO data for Black Lake Bayou west of Castor, LA (282).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
13-Feb-90	10:10	1	7.60
9-Apr-90	10:45	1	7.90
13-Aug-90	10:45	1	4.80
15-Oct-90	10:30	1	6.30
10-Dec-90	10:45	1	9.80
4-Feb-91	10:45	1	9.10
16-Apr-91	11:00	1	6.40
10-Jun-91	01:00	1	4.70
12-Aug-91	10:45	1	3.70
14-Oct-91	11:15	1	5.70
9-Dec-91	11:00	1	7.80
10-Feb-92	10:45	1	10.20
6-Apr-92	10:45	1	8.20
15-Jun-92	10:45	1	5.10
10-Aug-92	11:15	1	4.40
12-Oct-92	10:55	0.7	6.20
14-Dec-92	11:00	1	9.40
9-Feb-93	11:20	1	9.60
12-Apr-93	11:10	1	5.90
14-Jun-93	11:30	1	3.00
10-Aug-93	10:30	1	4.70
11-Oct-93	01:00	1	6.40
13-Dec-93	11:30	1	8.00
7-Feb-94	11:45	1	7.90
11-Apr-94	12:30	1	6.00

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
13-Jun-94	11:30	1	4.60
8-Aug-94	10:50	1	4.80
10-Oct-94	01:15	1	6.40
13-Dec-94	10:00	1	8.50
13-Feb-95	03:00	1	10.10
3-Apr-95	03:15	1	6.70
12-Jun-95	12:30	1	3.70
14-Aug-95	11:50	0.6	4.10
9-Oct-95	12:00	0.3	6.20
11-Dec-95	11:30	1	8.70
12-Feb-96	11:30	1	8.80
8-Apr-96	02:50	1	8.20
10-Jun-96	02:30	1	5.01
12-Aug-96	12:00	1	4.99
14-Oct-96	02:15	1	7.03
9-Dec-96	12:35	1	8.15
17-Feb-97	02:15	1	9.40
14-Apr-97	01:00	1	7.70
9-Jun-97	02:30	1	4.72
11-Aug-97	03:00	1	5.28
13-Oct-97	02:00	1	5.81
8-Dec-97	01:30	1	9.61
9-Feb-98	01:00	1	9.75
13-Apr-98	01:00	1	6.69

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Table B.3. LDEQ DO for Black Lake Bayou east of Martin, LA (1187).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
14-Jan-02	11:10	1	8.83
18-Feb-02	11:30	1	9.55
18-Mar-02	11:05	1.39	6.19
9-Apr-02	10:25	1	6.90
13-May-02	11:15	1	4.37
10-Jun-02	11:20	1	4.45
15-Jul-02	10:55	1	6.37
12-Aug-02	11:20	1	3.66
16-Sep-02	11:25	1	4.21
14-Oct-02	11:27	1	6.44
12-Nov-02	11:10	1	6.45

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Table B.4. LDEQ historical data for Saline Bayou southeast of Clarence, LA (1214).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
28-Jan-02	12:25	1	10.52
25-Feb-02	01:25	1	8.66
25-Mar-02	12:15	1	9.09
15-Apr-02	02:35	1	5.63
20-May-02	12:55	1	3.71
17-Jun-02	11:06	1	6.47
22-Jul-02	11:45	1	7.82
19-Aug-02	11:42	1	7.49
23-Sep-02	11:29	1	5.75
21-Oct-02	01:45	1	3.82
19-Nov-02	11:10	1	8.44

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Table B.5. LDEQ Historical Water Quality Data for Black Lake Bayou at Highway 155, east of Martin, Louisiana (1187)

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
12-AUG-2002	11:20	1	3.66
16-SEP-2002	11:25	1	4.21
13-MAY-2002	11:15	1	4.37
10-JUN-2002	11:20	1	4.45
18-MAR-2002	11:05	1.39	6.19
15-JUL-2002	10:55	1	6.37
14-OCT-2002	11:27	1	6.44
12-NOV-2002	11:10	1	6.45
09-APR-2002	10:25	1	6.90
14-JAN-2002	11:10	1	8.83
18-FEB-2002	11:30	1	9.55
10-Jan-2006	9:55	1	9.48
7-Feb-2006	11:48	1	8.23
7-Mar-2006	11:30	1	6.24
4-Apr-2006	13:20	1	5.04
18-Apr-2006	12:00	1	5.37
10-May-2006	13:15	1	5.4
25-May-2006	10:15	1	4.73
6-Jun-2006	11:15	1	5.03
1-Aug-2006	10:45	1	5.25
9-Aug-2006	11:00	1	5.4
27-Sep-2006	10:40	1	6.18
18-Oct-2006	12:30	1	6.83

Table B.6. LDEQ Historical Water Quality Data for Black Lake Bayou West of Castor, Louisiana (282).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
13-FEB-1990	10:10	1	7.60
09-APR-1990	10:45	1	7.90
13-AUG-1990	10:45	1	4.80
15-OCT-1990	10:30	1	6.30
10-DEC-1990	10:45	1	9.80
04-FEB-1991	10:45	1	9.10
16-APR-1991	11:00	1	6.40
10-JUN-1991	01:00	1	4.70
12-AUG-1991	10:45	1	3.70
14-OCT-1991	11:15	1	5.70
09-DEC-1991	11:00	1	7.80
10-FEB-1992	10:45	1	10.20
06-APR-1992	10:45	1	8.20
15-JUN-1992	10:45	1	5.10
10-AUG-1992	11:15	1	4.40
12-OCT-1992	10:55	0.7	6.20
14-DEC-1992	11:00	1	9.40
09-FEB-1993	11:20	1	9.60
12-APR-1993	11:10	1	5.90
14-JUN-1993	11:30	1	3.00
10-AUG-1993	10:30	1	4.70
11-OCT-1993	01:00	1	6.40
13-DEC-1993	11:30	1	8.00
07-FEB-1994	11:45	1	7.90
11-APR-1994	12:30	1	6.00
13-JUN-1994	11:30	1	4.60
08-AUG-1994	10:50	1	4.80
10-OCT-1994	01:15	1	6.40
13-DEC-1994	10:00	1	8.50
13-FEB-1995	03:00	1	10.10
03-APR-1995	03:15	1	6.70
12-JUN-1995	12:30	1	3.70
14-AUG-1995	11:50	0.6	4.10
09-OCT-1995	12:00	0.3	6.20
11-DEC-1995	11:30	1	8.70
12-FEB-1996	11:30	1	8.80
08-APR-1996	02:50	1	8.20
10-JUN-1996	02:30	1	5.01
12-AUG-1996	12:00	1	4.99
14-OCT-1996	02:15	1	7.03

Table B6. Continued.

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
09-DEC-1996	12:35	1	8.15
17-FEB-1997	02:15	1	9.40
14-APR-1997	01:00	1	7.70
09-JUN-1997	02:30	1	4.72
11-AUG-1997	03:00	1	5.28
13-OCT-1997	02:00	1	5.81
08-DEC-1997	01:30	1	9.61
09-FEB-1998	01:00	1	9.75
13-APR-1998	01:00	1	6.69

Table B.7. LDEQ Historical Water Quality Data for Black Lake north of Natchitoches, Louisiana (366).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
08-Jan-02			6.42
04-Feb-02			6.07
04-Mar-02			7.51
01-Apr-02			6.68
06-May-02			5.84
03-Jun-02			6.62
08-Jul-02			6.24
05-Aug-02			4.34
09-Sep-02			4.18
07-Oct-02			5.53
20-Nov-02			5.68
02-Dec-02			7.47
18-Jan-06			10.73
14-Feb-06			7.79
14-Mar-06			7.61
11-Apr-06			7.15
25-Apr-06			7.35
10-May-06			5.36
13-Jun-06			5.74
26-Jul-06			5.38
29-Aug-06			6.31
31-Oct-06			7.58
14-Nov-06			7.38

Table B.8. LDEQ Historical Water Quality Data for Saline Bayou Southeast of Clarence, Louisiana (1214).

Collection Date	Collection Time	Sample Depth (meters)	DO (mg/L)
28-Jan-02	12:25	1	10.52
25-Feb-02	01:25	1	8.66
25-Mar-02	12:15	1	9.09
15-Apr-02	02:35	1	5.63
20-May-02	12:55	1	3.71
17-Jun-02	11:06	1	6.47
22-Jul-02	11:45	1	7.82
19-Aug-02	11:42	1	7.49
23-Sep-02	11:29	1	5.75
21-Oct-02	01:45	1	3.82
19-Nov-02	11:10	1	8.44
4-Oct-2005	0:00	1	6.87
17-Jan-2006	13:15	1	8.07
13-Feb-2006	12:20	1	9.69

Figure B.1. DO for Black Lake Bayou at Highway 793, southeast of Dubberly, LA (1186)

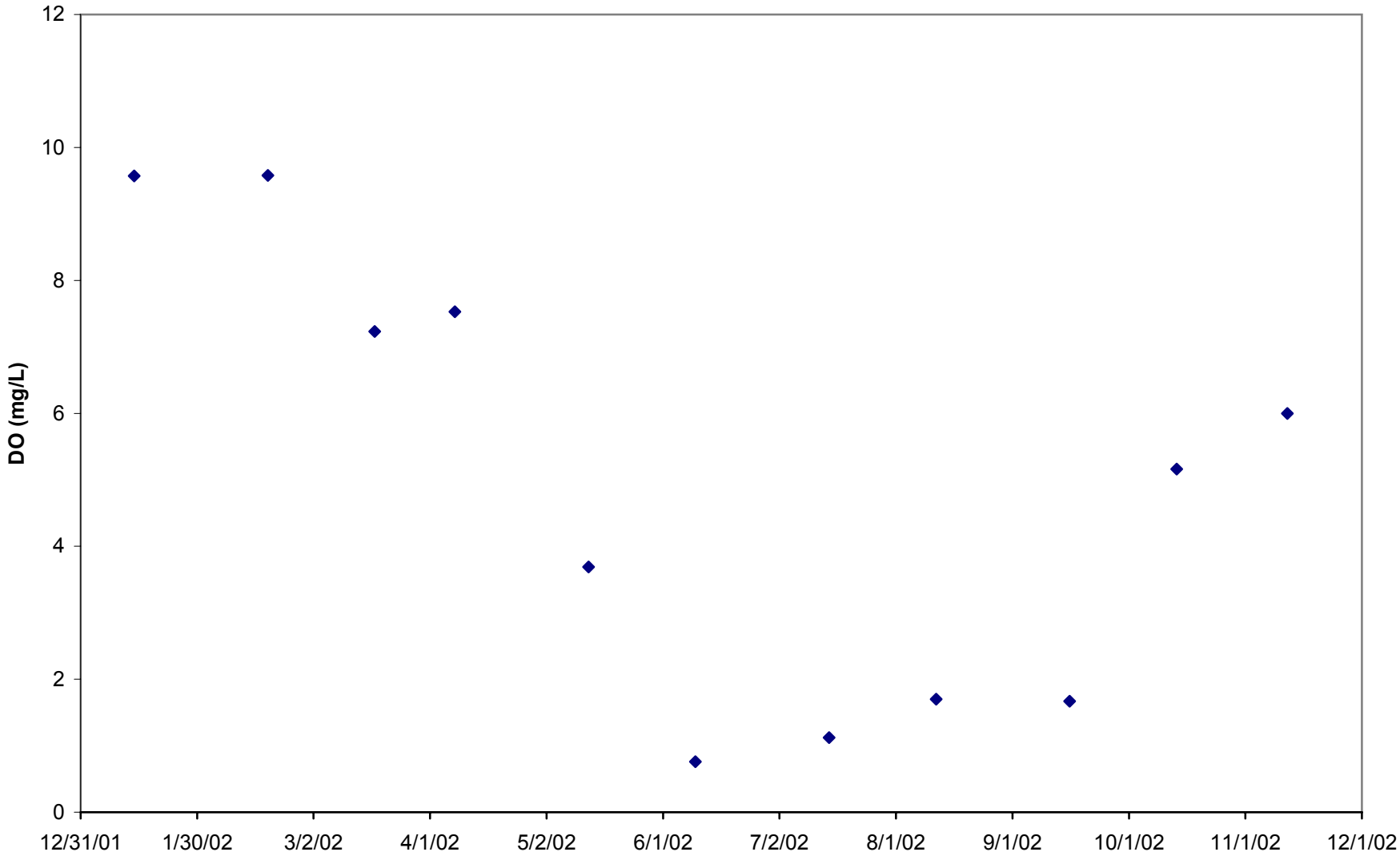


Figure B.2. DO for Black Lake Bayou west of Castor, LA (0282)

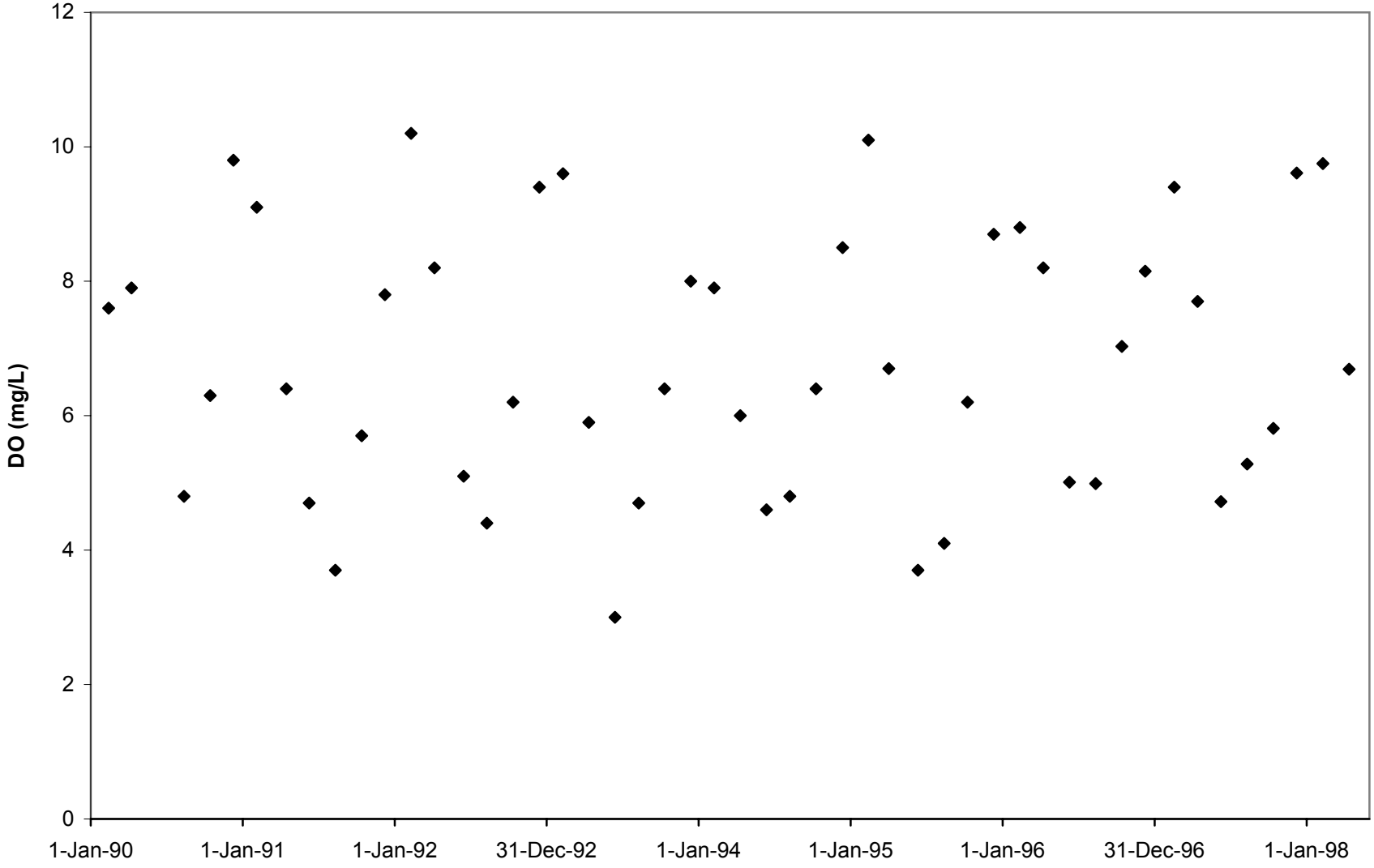


Figure B.3. DO for Black Lake Bayou at Highway 155, east of Martin, LA (1187)

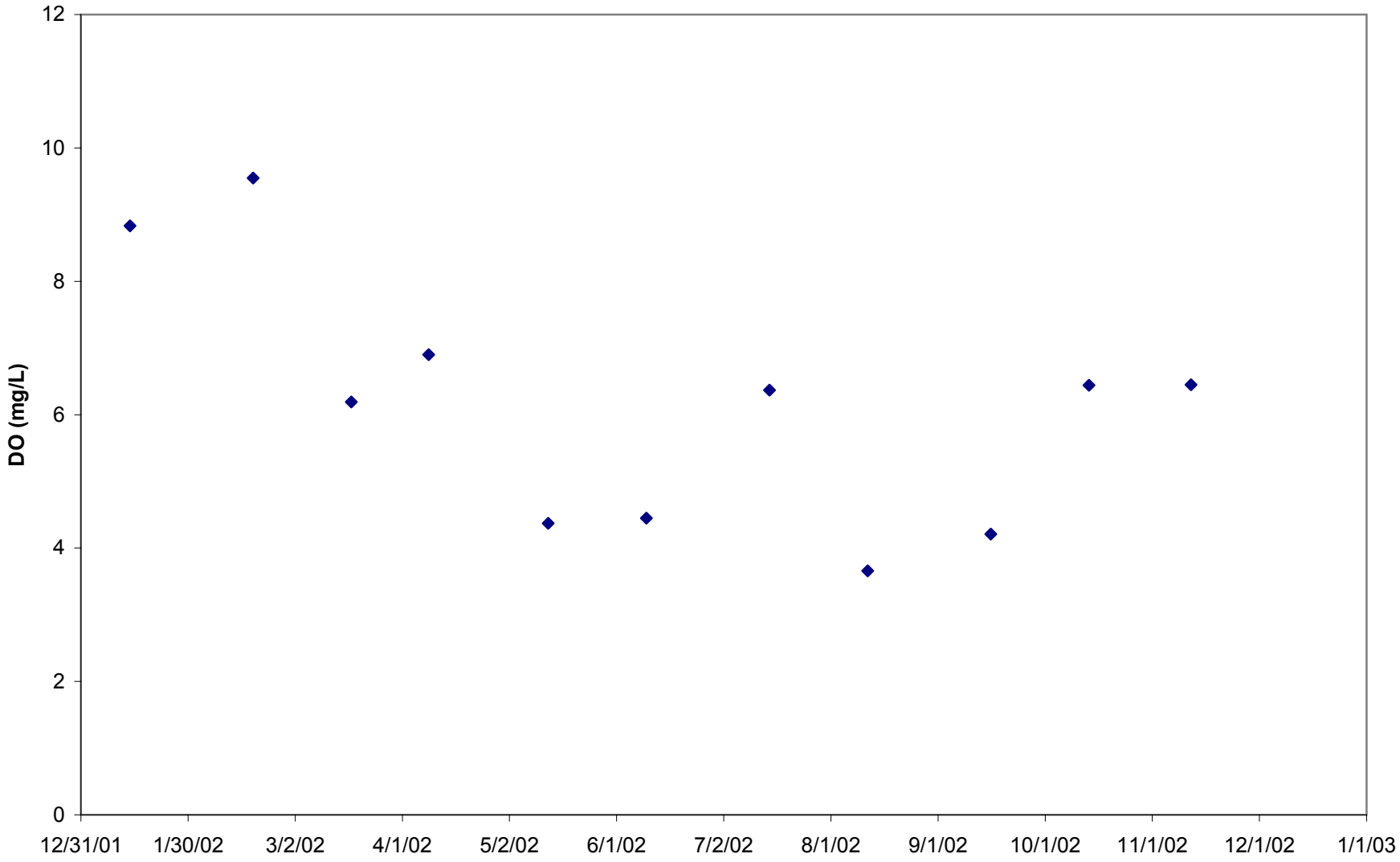
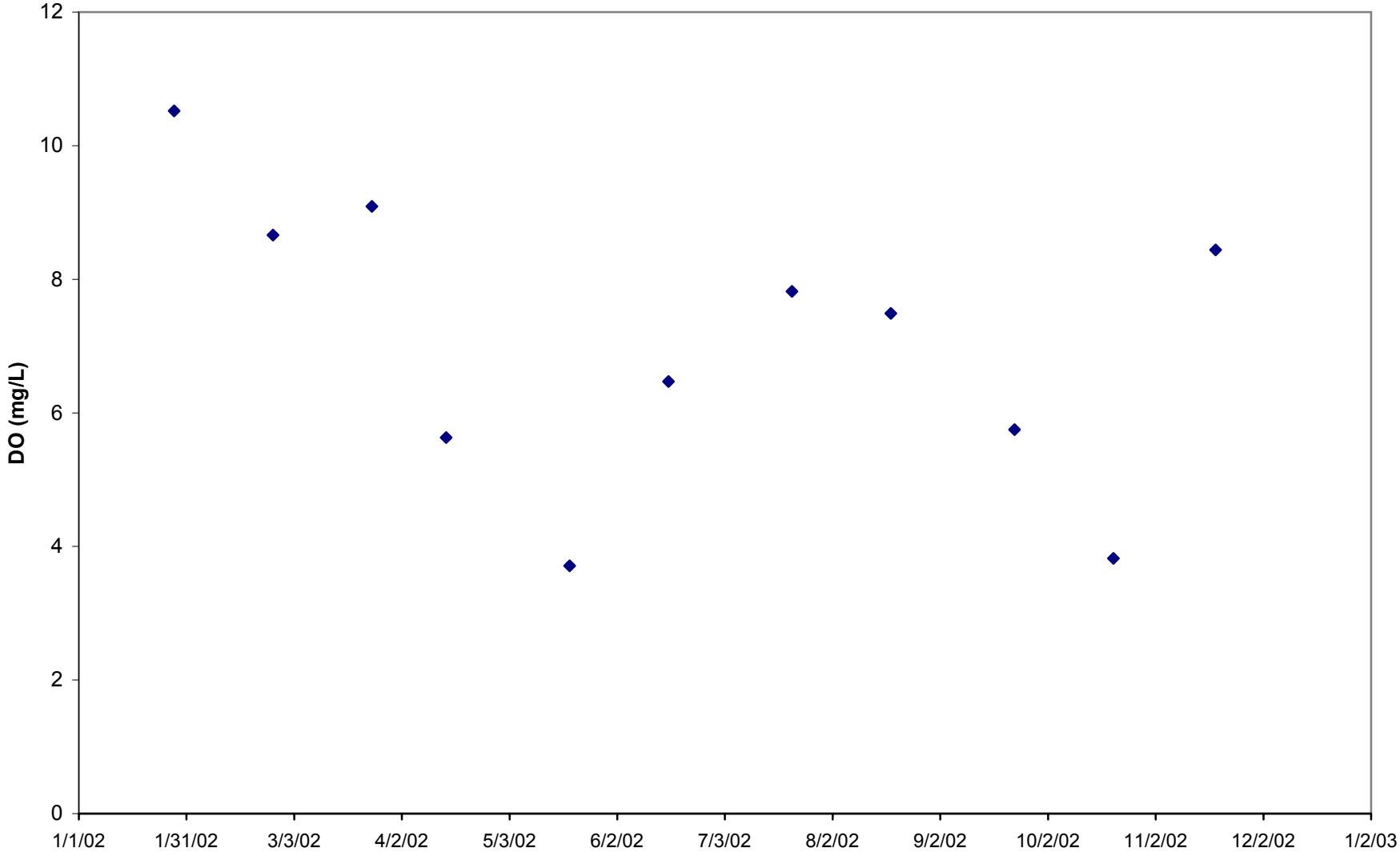


Figure B.4. DO for Saline Bayou southeast of Clarence, LA (1214)



APPENDIX C

FTN Field Data

Table C.1. Field data collection sites for FTN Field survey for Red and Sabine basins.

SUBSEG. NUMBER	SITE NO.	SITE NAME	DIRECTIONS	TYPE OF DATA COLLECTED
Red River basin				
100404	100404-A	Cypress Bayou Reservoir at upper end	At LA Hwy 162 bridge east of Benton	In situ
100404	1181	Cypress Bayou Reservoir southeast of Benton, LA	At spillway on Parks Road, 3.1 miles southeast of Benton, 3.5 miles southwest of Bellevue, 9.1 miles north of Bossier	In situ, sample
100405	100405-A	Black Bayou near Benton, LA	At LA Hwy 162 on east edge of Benton	In situ, sample
100405	1182	Black Bayou Reservoir at Linton Road, southeast of Benton, LA	4.4 miles southeast of Benton, 3.2 miles northeast of Dukedale, 4.3 miles southwest of Linton	In situ, sample
100406	363	Flat River Drainage Canal north of Bossier City, LA	At Airline Drive bridge, 4.0 miles south-southeast of Benton, LA	In situ, sample, flow, width
100406	389	Flat River Drainage Canal northeast of Bossier City, LA	At Swan Lake Road bridge 7.5 miles north-northeast of City Hall in Bossier City, LA	In situ, width, flow
100406	390	Flat River Drainage Canal NE of Shreveport	At Deer Point Road bridge 5.75 miles southeast of Benton, LA	In situ, width
100406	272	Flat River east of Taylortown, LA	At State Highway 527 bridge, 13 miles southeast of Shreveport, LA	In situ, flow, width, contin.
100406	100406-A	Flat River east of Poole, LA	At Poole Rd, 3 miles southeast of intersection of Poole Rd and US Hwy 71	In situ, flow, width
100501	100501-A	Bayou Dorcheat south of AR state line	At LA Hwy 157 several miles south of AR state line, east of Springhill, LA	In situ, sample, flow, width
100501	100501-B	Bayou Dorcheat NE of Cotton Valley	At LA Hwy 160 about 4-5 miles northeast of Cotton Valley, LA	In situ, sample, flow, width
100501	61	Bayou Dorcheat west of Minden, LA	At bridge on US Hwy 80, 3.0 miles west of Minden	In situ, flow, width
100501	274	Bayou Dorcheat west of Sibley, LA	At State Highway 164 bridge, 2.0 miles west of Sibley, LA, 6.0 miles southwest of Minden, LA	In situ, flow, width,
100601	100601-A	Wallace Bayou upstream of Bayou Pierre	At White Springs Rd, about 4 miles southwest of Gayles, LA, about 2 miles downstream of Wallace Lake	In situ, sample, flow, width
100601	278	Bayou Pierre near Shreveport, LA	At State Highway 526 bridge, 0.75 mile northeast of Forbing, LA, 8.0 miles south of Shreveport, LA	In situ, sample, flow, width
100601	1183	Bayou Pierre at Ellerbee Road, S of Gayles	3.2 miles south of Gayles, 2.4 miles southwest of Cecile, 5 miles northeast of Frierson	In situ, sample, flow, width
100601	100601-B	Bayou Pierre southwest of Williams, LA	At highway 509, about 4 miles southwest of Williams, LA, about 9 miles south of Caddo/Red River Parish line	In situ, flow, width
100602	100602-A	Boggy Bayou SE of Hicks Crossing, LA	At LA Hwy 169, about 2-3 miles southeast of Hicks Crossing	In situ, sample, flow, width
100602	1207	Boggy Bayou southwest of Shreveport, LA	6.4 miles southwest of Shreveport, 3.1 miles north of Keithville, 2.9 miles southeast of Reservoir	In situ, sample, flow, width
100702	100702-A	Black Lake Bayou west of Mt. Lebanon	At LA Hwy 793 about 5-6 miles west of Mt. Lebanon (in 100701)	In situ, flow, width
100702	100702-B	Leatherman Creek west of Mt. Lebanon	At LA Hwy 793 about 4 miles west of Mt. Lebanon	In situ, sample, flow, width

SUBSEG. NUMBER	SITE NO.	SITE NAME	DIRECTIONS	TYPE OF DATA COLLECTED
100702	282	Black Lake Bayou west of Castor, LA	At LA Highway 4, 2.5 miles west of Castor, LA, 18.5 miles northeast of Coushatta, LA	In situ, sample, flow, width
100702	1187	Black Lake Bayou at Hwy 155, E of Martin	At bridge on State Hwy 155, 3.5 miles east of Martin, 6.2 miles west of Skidder, 5 miles SW of Ashland	In situ, sample, flow, width
100703	100703-A	Black Lake northeast of Campti, LA	On LA Hwy 9 bridge about 6 miles northeast of Campti, LA	In situ, sample
100703	100703-B	Clear Lake outlet northeast of Clarence, LA	At LA Hwy 1226, just downstream of Chivery Dam at outlet of Clear Lake, about 5 miles northeast of Clarence	In situ, sample, flow, width
100803	100803-A	Saline Bayou northeast of Clarence, LA	Access point at end of LA Hwy 1227 at Allen Dam, about 5.5 miles NE of Clarence	In situ, sample, flow, width
100803	1214	Saline Bayou southeast of Clarence, LA	At US Hwy 71, 7 miles east of Natchitoches, 5.1 miles southeast of Clarence, 3.4 miles south of Trichell	In situ, sample, flow, width, contin.
101301	556	Cress Creek west of Oak Grove, LA	At bridge on LA Hwy 8, 2.8 miles W of Oak Grove, 4 miles S of Fairfield, 3.7 miles N of Bagdad	In situ, sample
101301	101301-A	Rigolette Bayou WNW of Bagdad, LA	At LA Hwy 492, about 1 mile WNW of Bagdad, about 7 miles southeast of Colfax	In situ, sample, flow, width
101301	1220	Rigolette Bayou northwest of Pineville, LA	Bridge on Rigolette Rd., 4.8 miles NW of Pineville, 1.6 miles NE of Barrett, 3.9 miles SW of Tio	In situ, sample, flow, width, contin.
101302	101302-A	Iatt Creek near upstream end of Iatt Lake	At LA Hwy 122 about 10 miles east of Montgomery, LA	In situ, sample
101302	570	Beaver Creek south of Faircloth, LA	0.35 miles west of Faircloth, 2 miles northwest of Fairfield, 4.5 miles southwest of Wilhana	In situ, sample
101302	1221	Iatt Lake southwest of Fairfield, LA	Public boat launch near spillway, 4.4 miles southwest Fairfield, 7.1 miles northwest of Oak Grove, 3.7 miles northeast	In situ, sample
101503	371	Saline Bayou east of Alexandria, LA	9.0 miles east of Buckeye, LA, 1.5 mile northeast of Saline Lake, 0.5 mile south of entrance to Bushyhead Bayou	In situ
101503	101503-A	Saline Bayou southeast of Saline Lake	At local road about 1-2 miles southeast of east end of Saline Lake	In situ, sample
101604	1231	Lake Concordia at Ferriday, LA	Sportsman's Marina, 1.7 miles NW of Ridgecrest, 6.8 miles S of Clayton, 16 miles E of Jonesville	In situ, sample
101604	101604-A	Bayou Cocodrie at Ferriday, LA	At US Hwy 65 bridge, about 0.5 miles SW of Lake Concordia	In situ, width, xcs
Sabine River basin				
110401	110401-A	Toro Creek southeast of Florien, LA	At Plainview Road, about 3-4 miles southeast of Florien, LA	In situ, sample, flow, width
110401	1160	Bayou Toro northeast of Toro, LA	At LA Hwy 473, about 2 miles northeast of Toro, LA	In situ, sample, flow, width

Note: “contin.” = continuous in situ monitoring

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Table C.2. In situ data for FTN field survey in Red River and Sabine River basins.

Subsegment Number	Site No.	Site Name	Date	Time	Water Temp. (C)	DO (mg/L)	Conductivity (umhos/cm)	pH (su)
100404	1181	Cypress Bayou Reservoir southeast of Benton	09/01/05	10:44	30.8	7.3	54	7.3
	100404-A	Cypress Bayou Reservoir @ Hwy 162	09/01/05	11:20	30.4	6.1	51	7.0
100405	1182	Black Bayou Reservoir @ Linton Rd	09/01/05	10:20	29.8	5.5	75	7.2
	100405-A	Black Bayou @ Hwy 162	09/01/05	11:45	24.9	1.0	440	6.9
100406	272	Flat River @ Hwy 527	09/02/05	08:15	25.5	2.9	811	7.1
	363	Flat River Airline Dr. bridge	09/01/05	09:30	29.3	5.2	90	7.1
	389	Flat River Dr. Canal Swan L. Rd.	09/01/05	07:54	26.9	1.4	336	7.6
	390	Flat River @ Deer Pt. Road	09/01/05	08:40	27.1	0.4	179	7.2
	100406-A	Flat River @ Swan Lake Bridge	08/31/05	19:00	30.6	5.3	888	7.3
100501	61	Bayou Dorcheat @ Hwy 80	09/01/05	18:45	32.6	7.1	127	6.7
	274	Bayou Dorcheat @ Hwy 164	09/02/05	09:40	29.1	6.2	193	7.6
	100501-A	Bayou Dorcheat	09/01/05	14:35	27.1	3.2	418	7.1
	100501-B	Bayou Dorcheat @ Hwy 160	09/01/05	15:55	31.8	5.9	76	7.2
100601	278	Bayou Pierre nr Shreveport	08/31/05	12:20	31.0	6.8	498	7.0
	1183	Bayou Pierre @ Ellerbee Rd	08/31/05	10:10	25.0	3.7	476	7.2
	100601-A	Wallace Bayou	08/31/05	11:10	29.5	5.9	214	7.6
	100601-B	Bayou Pierre	08/31/05	08:45	26.6	4.9	338	7.4
100602	1207	Boggy Bayou Hwy 171	08/31/05	14:40	31.5	5.2	156	7.1
	100602-A	Boggy Bayou @ Hwy 169	08/31/05	13:45	27.2	4.4	208	7.1
100702	282	Black Lake Bayou Hwy 4	09/07/05	09:20	24.7	5.3	35	6.1
	1187	Black Lake Bayou Hwy 155	09/07/05	10:25	24.9	5.3	40	6.3
	100702-A	Black Lake Bayou Hwy 793	09/07/05	07:20	23.4	2.9	167	6.3
	100702-B	Leatherman Creek	09/07/05	08:05	23.3	3.4	54	6.3
100703	100703-A	Black Lake @ Hwy 9	09/07/05	11:20	27.6	5.3	71	6.4
	100703-B	Clear Lake outlet	09/07/05	12:40	29.8	6.9	96	6.9
100803	1214	Saline Bayou @ Hwy 71	09/07/05	14:40	30.2	5.4	105	6.8
	100803-A	Saline Bayou @ Allen Dam	09/07/05	13:40	30.6	8.3	82	7.8
101301	556	Cress Creek @ Hwy 8	09/08/05	11:30	21.7	7.5	22	6.5
	1220	Rigolette Bayou @ Rig. Road	09/08/05	09:35	27.4	4.3	108	6.8
	101301-A	Rigolette Bayou @ hwy 492	09/08/05	10:20	24.2	5.0	54	6.6
101302	570	Beaver Creek	09/08/05	12:30	20.3	8.3	29	6.5
	1221	Iatt Lake	09/08/05	11:05	26.5	3.2	6	6.3
	101302-A	Iatt Creek @ Hwy 122	09/08/05	12:05	24.2	1.2	129	6.4
101503	101503-A	Saline Bayou on Farm Rd.	09/09/05	07:05	24.0	3.3	179	6.9
101504	371	Saline Bayou @ WMA boatramp	09/08/05	15:30	30.6	8.3	47	8.0
101604	1231	Lake Concordia @ Sportmans Lodge	09/09/05	08:45	28.9	7.5	251	8.3
	101604-A	Bayou Cocodrie @ Hwy 65	09/09/05	08:30	27.2	2.2	282	6.9
110401	1160	Bayou Toro @ Hwy 473	09/08/05	07:30	24.4	4.8	99	6.4
	110401-A	Toro Creek @ Plainview Rd.	09/08/05	06:40	21.8	1.3	81	6.3

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Table C.3 Analytical laboratory results from samples collected in FTN field survey for Red River and Sabine River basins.

Subsegment Number	Site Number	Site Name	Sampling Date	TSS (mg/L	TKN (mg/L)	Total Phos. (mg/L)	TOC (mg/L)	Chlorophyll a (mg/L)	Ammonia as N (mg/L)	NO3 + NO2 N (mg/L)
100404	1181	Cypress Bayou Reservoir nr Benton	09/01/05	7.7	1.8	0.045	9.1	0.035	0.24	<0.05
100405	1182	Black Bayou Reservoir nr Linden Rd	09/01/05	8	1.9	0.061	10	0.051	0.14	<0.05
	100405-A	Black Bayou nr Benton	09/01/05	8.4	2.4	0.082	12	<0.02	0.56	<0.05
100406	363-1	Flat River Dr. Canal nr Bossier City	09/01/05	26	2.5	0.093	10	0.027	0.39	<0.05
	363-2	Flat River Dr. Canal nr Bossier City	09/01/05	26	2.2	0.074	11	0.03	0.36	<0.05
100501	100501-A	Bayou Dorcheat nr AR line	09/01/05	11	1.6	0.15	5.7	<0.02	0.2	0.26
	100501-B	Bayou Dorcheat NE Cotton Valley	09/01/05	4.4	1.7	0.048	8.3	0.021	0.18	<0.05
100601	278	Bayou Pierre nr Shreveport	08/31/05	9.8	1.4	0.25	7.6	<0.02	0.13	<0.05
	1183	Bayou Pierre at Ellerbee Rd.	08/31/05	16	2.3	0.22	2.6	<0.02	0.22	0.39
	100601-A-1	Wallace Bayou u/s B. Pierre	08/31/05	19	1.6	0.085	6.8	<0.02	<0.1	<0.05
	100601-A-2	Wallace Bayou u/s B. Pierre	08/31/05	18	1.8	0.085	6.7	<0.02	<0.1	0.06
100602	1207	Boggy Bayou SW of Shreveport	08/31/05	19	1.5	0.14	6.1	<0.02	<0.1	<0.05
	100602-A	Boggy Bayou SE of Hicks Crossing	08/31/05	78	1.8	0.15	8.1	<0.02	<0.1	<0.05
100702	100702-B	Leatherman Creek	09/07/05	18	2.4	0.11	7.5	0.076	0.32	<0.05
	282	Black Lake Bayou w of Castor	09/07/05	4.8	1.6	0.048	5.9	<0.02	0.22	0.064
	1187	Black Lake Bayou @ Hwy 155	09/07/05	5.2	1.7	0.064	6	<0.02	0.17	0.096
100703	100703-A-1	Black Lake NE Campti	09/07/05	73	1.7	0.048	7.7	<0.02	0.17	<0.05
	100703-A-2	Black Lake NE Campti	09/07/05	4.4	1.9	0.05	7.8	<0.02	0.17	<0.05
	100703-B	Clear Lake outlet	09/07/05	16	1.9	0.12	9.2	0.1	0.25	<0.05
100803	1214	Saline Bayou SE of Clarence	09/07/05	22	1.9	0.08	8.6	0.034	0.23	<0.05
	100803-A	Saline Bayou NE of Clarence	09/07/05	16	3	0.098	8.7	0.05	0.21	<0.05
101301	556	Cress Creek	09/08/05	<4	<1	<0.02	3.1	<0.02	0.16	<0.05
	1220	Rigolette Bayou NE of Pineville	09/08/05	13	1.1	0.082	4.9	<0.02	0.12	<0.05
	570	Beaver Creek	09/08/05	6.2	<1	<0.02	1.5	<0.02	<0.1	0.1
	101301-A	Rigolette Bayou WNW of Bagdad	09/08/05	41	1.3	0.08	3.2	<0.02	0.19	<0.05
101302	1221	Iatt Lake	09/08/05	<4	<1	<0.02	9	<0.02	0.19	<0.05
	101302-A-1	Iatt Creek	09/08/05	5.4	1.4	0.048	11	<0.02	0.22	0.059
	101302-A-2	Iatt Creek	09/08/05	5.2	<1	0.048	11	<0.02	0.14	<0.05
101503	101503-A	Saline Bayou SE of Saline L.	09/09/05	280	2.2	0.15	6.8	0.026	0.58	0.068
101604	1231	Lake Concordia	09/09/05	12	1.9	0.15	7.9	0.049	0.23	<0.05
110401	1160	Bayou Toro NE of Toro	09/08/05	16	1.7	0.1	6.4	<0.02	0.14	<0.05
	110401-A	Toro Creek	09/08/05	6.8	1.4	0.11	7.3	<0.02	0.16	<0.05

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Table C.4. Summary of CBOD time series data from FTN field survey of Red River and Sabine River basins..

Subsegment Number	Sample No.	CBOD 1, 2-day	CBOD 2, 5-day	CBOD 3, 9-day	CBOD 4, 14-Day	CBOD 5, 20-day	k rate (1/day)	CBODu (mg/l)
100404	1181	<2	3.3	5	5.3	5.2	0.22	5.49
100405	1182	2.9	4.8	6.7	8.1	12	0.06	15.61
	100405-A	<2	<2	3.3	5.1	6.9	0.05	12.47
100406	363-1	<2	<2	4.3	5.7	6.6	0.12	7.50
	363-2	<2	<2	4.2	5.8	6.8	0.12	7.69
100501	100501-A	2.4	3.2	3.9	4.2	4.8	0.30	4.43
	100501-B	5.2	6.5	7.6	7.9	12	0.21	10.13
100601	278	<2	<2	2.3	4.6	6.8	0.04	13.85
	1183	<2	<2	<2	5.1	3.9	0.60	4.50
	100601-A-1	<2	<2	<2	2.8	4.4	0.16	5.38
	100601-A-2	<2	2.1	2.3	4.1	5.4	0.04	9.83
100602	1207	<2	<2	2.1	3.4	6	0.04	13.05
	100602-A	2.7	3.9	5	7.8	9.4	0.07	11.99
100702	282	<2	<2	<2	<2	2.2	--	--
	1187	<2	<2	<2	<2	<2	--	--
	100702-B	<2	2.1	3.7	4.6	6.2	0.05	9.62
100703	100703-A-1	<2	<2	<2	2.5	4	0.05	8.69
	100703-A-2	<2	<2	<2	2.3	3.1	0.05	5.60
	100703-B	2.4	5.9	8.9	9.6	14	0.08	16.99
100803	1214	<2	2.7	7.1	7.3	8.9	0.31	8.42
	100803-A	<2	<2	3.9	4.8	6.6	0.05	10.75
101301	556	<2	<2	<2	<2	<2	--	--
	1220	<2	<2	<2	3.1	3.9	0.15	4.43
	101301-A	<2	<2	<2	<2	<2	--	--
101302	570	<2	<2	<2	<2	<2	--	--
	1221	<2	<2	<2	<2	2.2	--	--
	101302-A-1	<2	<2	2.7	3.6	4.3	0.10	5.04
	101302-A-2	<2	<2	<2	2.5	3.4	0.05	5.75
101503	101503-A	<2	<2	3.6	6.2	6.9	0.22	7.29
101604	1231	<2	3.6	7.3	9.9	12	0.06	18.50
110401	1160	<2	<2	<2	<2	2	--	--
	110401-A	<2	<2	<2	<2	2.3	--	--

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Table C.9 Continuous DO data Collected at 1214.

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Estimation of daily mean DO values at other stations: Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/06/05 19:50	7.0											
9/06/05 20:05	6.4											
9/06/05 20:20	6.3											
9/06/05 20:35	6.2											
9/06/05 20:50	6.1											
9/06/05 21:05	5.9											
9/06/05 21:20	5.7											
9/06/05 21:35	5.5											
9/06/05 21:50	5.3											
9/06/05 22:05	5.3											
9/06/05 22:20	5.1											
9/06/05 22:35	5.1											
9/06/05 22:50	5.0											
9/06/05 23:05	4.7											
9/06/05 23:20	4.7											
9/06/05 23:35	4.7											
9/06/05 23:50	4.5	1.030133		2.368421								
9/07/05 00:05	4.3	0.984349		2.263158								
9/07/05 00:20	4.4	1.007241		2.315789								
9/07/05 00:35	4.3	0.984349		2.263158								
9/07/05 00:50	4.2	0.961458		2.210526								
9/07/05 01:05	4.0	0.915674		2.105263								
9/07/05 01:20	3.9	0.892782		2.052632								
9/07/05 01:35	4.0	0.915674		2.105263								
9/07/05 01:50	4.0	0.915674		2.105263								
9/07/05 02:05	4.1	0.938566		2.157895								
9/07/05 02:20	3.9	0.892782		2.052632								
9/07/05 02:35	3.7	0.846998		1.947368								
9/07/05 02:50	3.8	0.86989		2								
9/07/05 03:05	3.7	0.846998		1.947368								
9/07/05 03:20	3.6	0.824107		1.894737								
9/07/05 03:35	3.1	0.709647		1.631579								
9/07/05 03:50	2.9	0.663864		1.526316								
9/07/05 04:05	2.9	0.663864		1.526316								
9/07/05 04:20	2.9	0.663864		1.526316								

Estimation of daily mean DO values at other stations

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/07/05 04:35	2.7	0.61808		1.421053								
9/07/05 04:50	2.7	0.61808		1.421053								
9/07/05 05:05	2.5	0.572296		1.315789								
9/07/05 05:20	2.5	0.572296		1.315789								
9/07/05 05:35	2.4	0.549404		1.263158								
9/07/05 05:50	2.3	0.526512		1.210526								
9/07/05 06:05	2.2	0.503621		1.157895								
9/07/05 06:20	2.0	0.457837		1.052632								
9/07/05 06:35	1.9	0.434945		1								
9/07/05 06:50	2.2	0.503621		1.157895								
9/07/05 07:05	2.1	0.480729		1.105263								
9/07/05 07:20	2.1	0.480729		1.105263		100702-A	9/7/2005	7:20	2.85	5.93	2.58	3.58
9/07/05 07:35	2.0	0.457837		1.052632								
9/07/05 07:50	2.0	0.457837		1.052632								
9/07/05 08:05	2.0	0.457837		1.052632		100702-B	9/7/2005	8:05	3.35	7.32	3.18	4.18
9/07/05 08:20	2.0	0.457837		1.052632								
9/07/05 08:35	2.2	0.503621		1.157895								
9/07/05 08:50	2.1	0.480729		1.105263								
9/07/05 09:05	2.1	0.480729		1.105263								
9/07/05 09:20	2.1	0.480729		1.105263		282	9/7/2005	9:20	5.33	11.09	4.82	5.82
9/07/05 09:35	2.2	0.503621		1.157895								
9/07/05 09:50	2.4	0.549404		1.263158								
9/07/05 10:05	2.4	0.549404		1.263158								
9/07/05 10:20	2.5	0.572296		1.315789		1187	9/7/2005	10:25	5.34	9.33	4.06	5.06
9/07/05 10:35	2.7	0.61808		1.421053								
9/07/05 10:50	2.8	0.640972		1.473684								
9/07/05 11:05	2.9	0.663864		1.526316								
9/07/05 11:20	3.2	0.732539		1.684211		100703-A	9/7/2005	11:20	5.25	7.17	3.12	4.12
9/07/05 11:35	3.4	0.778323		1.789474								
9/07/05 11:50	3.3	0.755431		1.736842								
9/07/05 12:05	3.8	0.86989		2								
9/07/05 12:20	3.9	0.892782		2.052632								
9/07/05 12:35	3.5	0.801215		1.842105		100703-B	9/7/2005	12:40	6.93	8.65	3.76	4.76
9/07/05 12:50	4.2	0.961458		2.210526								
9/07/05 13:05	4.6	1.053025		2.421053								
9/07/05 13:20	4.5	1.030133		2.368421								
9/07/05 13:35	4.7	1.075917		2.473684								

Table C.4.2
Continuous DO data collected at 1214

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08
9/07/05 13:50	5.3	1.213268		2.789474	
9/07/05 14:05	4.9	1.121701		2.578947	
9/07/05 14:20	5.2	1.190376		2.736842	
9/07/05 14:35	5.0	1.144592		2.631579	
9/07/05 14:50	5.5	1.259052		2.894737	
9/07/05 15:05	5.4	1.23616		2.842105	
9/07/05 15:20	5.4	1.23616		2.842105	
9/07/05 15:35	6.1	1.396403		3.210526	
9/07/05 15:50	6.3	1.442186		3.315789	
9/07/05 16:05	6.1	1.396403		3.210526	
9/07/05 16:20	6.0	1.373511		3.157895	
9/07/05 16:35	6.5	1.48797		3.421053	
9/07/05 16:50	6.4	1.465078		3.368421	
9/07/05 17:05	6.8	1.556646		3.578947	
9/07/05 17:20	6.8	1.556646		3.578947	
9/07/05 17:35	6.7	1.533754		3.526316	
9/07/05 17:50	6.4	1.465078		3.368421	
9/07/05 18:05	7.3	1.671105		3.842105	
9/07/05 18:20	6.5	1.48797		3.421053	
9/07/05 18:35	6.9	1.579537		3.631579	
9/07/05 18:50	6.8	1.556646		3.578947	
9/07/05 19:05	6.9	1.579537		3.631579	
9/07/05 19:20	6.7	1.533754		3.526316	
9/07/05 19:35	6.6	1.510862		3.473684	
9/07/05 19:50	6.7	1.533754		3.526316	
9/07/05 20:05	6.5	1.48797		3.421053	
9/07/05 20:20	6.3	1.442186		3.315789	
9/07/05 20:35	6.4	1.465078		3.368421	
9/07/05 20:50	6.4	1.465078		3.368421	
9/07/05 21:05	6.2	1.419295		3.263158	
9/07/05 21:20	6.1	1.396403		3.210526	
9/07/05 21:35	6.0	1.373511		3.157895	
9/07/05 21:50	5.8	1.327727		3.052632	
9/07/05 22:05	5.7	1.304835		3	
9/07/05 22:20	5.9	1.350619		3.105263	
9/07/05 22:35	5.8	1.327727		3.052632	
9/07/05 22:50	5.6	1.281943		2.947368	

Estimation of daily mean DO values at other stations

Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
100803-A	9/7/2005	13:40	8.34	6.87	2.99	3.99

Table C.4.2

Continuous DO data collected at 1214

Estimation of daily mean DO values at other stations

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/07/05 23:05	5.5	1.259052		2.894737								
9/07/05 23:20	5.5	1.259052		2.894737								
9/07/05 23:35	5.4	1.23616		2.842105								
9/07/05 23:50	5.3	1.213268		2.789474								
9/08/05 00:05	5.2	1.190376		2.736842								
9/08/05 00:20	5.1		1.014769		2.42857							
9/08/05 00:35	5.1		1.014769		2.42857							
9/08/05 00:50	5.0		0.994872		2.38095							
9/08/05 01:05	4.9		0.974974		2.33333							
9/08/05 01:20	5.0		0.994872		2.38095							
9/08/05 01:35	4.9		0.974974		2.33333							
9/08/05 01:50	4.5		0.895385		2.14286							
9/08/05 02:05	4.4		0.875487		2.09524							
9/08/05 02:20	4.4		0.875487		2.09524							
9/08/05 02:35	4.5		0.895385		2.14286							
9/08/05 02:50	4.5		0.895385		2.14286							
9/08/05 03:05	4.2		0.835692		2							
9/08/05 03:20	4.1		0.815795		1.95238							
9/08/05 03:35	3.8		0.756103		1.80952							
9/08/05 03:50	3.9		0.776		1.85714							
9/08/05 04:05	3.7		0.736205		1.7619							
9/08/05 04:20	3.3		0.656615		1.57143							
9/08/05 04:35	3.2		0.636718		1.52381							
9/08/05 04:50	2.8		0.557128		1.33333							
9/08/05 05:05	2.8		0.557128		1.33333							
9/08/05 05:20	2.6		0.517333		1.2381							
9/08/05 05:35	2.8		0.557128		1.33333							
9/08/05 05:50	2.7		0.537231		1.28571							
9/08/05 06:05	2.5		0.497436		1.19048							
9/08/05 06:20	2.2		0.437744		1.04762							
9/08/05 06:35	2.3		0.457641		1.09524							
9/08/05 06:50	2.3		0.457641		1.09524							
9/08/05 07:05	2.1		0.417846		1							
9/08/05 07:20	2.3		0.457641		1.09524							
9/08/05 07:35	2.2		0.437744		1.04762							
9/08/05 07:50	2.1		0.417846		1							
9/08/05 08:05	2.1		0.417846		1							

Table C.4.2

Continuous DO data collected at 1214

Estimation of daily mean DO values at other stations

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/08/05 08:20	2.2		0.437744		1.04762							
9/08/05 08:35	2.2		0.437744		1.04762							
9/08/05 08:50	2.2		0.437744		1.04762							
9/08/05 09:05	2.1		0.417846		1							
9/08/05 09:20	2.1		0.417846		1							
9/08/05 09:35	2.2		0.437744		1.04762							
9/08/05 09:50	2.3		0.457641		1.09524							
9/08/05 10:05	2.5		0.497436		1.19048							
9/08/05 10:20	2.6		0.517333		1.2381							
9/08/05 10:35	2.9		0.577026		1.38095							
9/08/05 10:50	3.0		0.596923		1.42857							
9/08/05 11:05	3.3		0.656615		1.57143							
9/08/05 11:20	3.5		0.69641		1.66667							
9/08/05 11:35	3.7		0.736205		1.7619							
9/08/05 11:50	3.0		0.596923		1.42857							
9/08/05 12:05	3.9		0.776		1.85714							
9/08/05 12:20	4.3		0.85559		2.04762							
9/08/05 12:35	4.3		0.85559		2.04762							
9/08/05 12:50	4.5		0.895385		2.14286							
9/08/05 13:05	4.5		0.895385		2.14286							
9/08/05 13:20	4.6		0.915282		2.19048							
9/08/05 13:35	4.8		0.955077		2.28571							
9/08/05 13:50	4.8		0.955077		2.28571							
9/08/05 14:05	5.6		1.114256		2.66667							
9/08/05 14:20	5.1		1.014769		2.42857							
9/08/05 14:35	6.2		1.233641		2.95238							
9/08/05 14:50	5.9		1.173949		2.80952							
9/08/05 15:05	6.8		1.353026		3.2381							
9/08/05 15:20	6.9		1.372923		3.28571							
9/08/05 15:35	6.5		1.293333		3.09524							
9/08/05 15:50	7.1		1.412718		3.38095							
9/08/05 16:05	7.4		1.47241		3.52381							
9/08/05 16:20	7.1		1.412718		3.38095							
9/08/05 16:35	7.2		1.432615		3.42857							
9/08/05 16:50	7.4		1.47241		3.52381							
9/08/05 17:05	7.3		1.452513		3.47619							
9/08/05 17:20	7.7		1.532103		3.66667							

Table C.4.2
Continuous DO data collected at 1214

Estimation of daily mean DO values at other stations

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/08/05 17:35	7.8		1.552		3.71429							
9/08/05 17:50	7.7		1.532103		3.66667							
9/08/05 18:05	7.7		1.532103		3.66667							
9/08/05 18:20	7.8		1.552		3.71429							
9/08/05 18:35	8.0		1.591795		3.80952							
9/08/05 18:50	7.8		1.552		3.71429							
9/08/05 19:05	7.9		1.571897		3.7619							
9/08/05 19:20	8.0		1.591795		3.80952							
9/08/05 19:35	8.1		1.611692		3.85714							
9/08/05 19:50	8.1		1.611692		3.85714							
9/08/05 20:05	7.9		1.571897		3.7619							
9/08/05 20:20	7.8		1.552		3.71429							
9/08/05 20:35	7.6		1.512205		3.61905							
9/08/05 20:50	7.6		1.512205		3.61905							
9/08/05 21:05	7.5		1.492308		3.57143							
9/08/05 21:20	7.4		1.47241		3.52381							
9/08/05 21:35	7.4		1.47241		3.52381							
9/08/05 21:50	7.2		1.432615		3.42857							
9/08/05 22:05	7.1		1.412718		3.38095							
9/08/05 22:20	7.0		1.392821		3.33333							
9/08/05 22:35	6.9		1.372923		3.28571							
9/08/05 22:50	6.6		1.313231		3.14286							
9/08/05 23:05	6.7		1.333128		3.19048							
9/08/05 23:20	6.6		1.313231		3.14286							
9/08/05 23:35	6.4		1.273436		3.04762							
9/08/05 23:50	6.4		1.273436		3.04762							
9/09/05 00:05	6.2		1.233641		2.95238							
9/09/05 00:20	6.3		1.253538		3							
9/09/05 00:35	5.9											
9/09/05 00:50	6.0											
9/09/05 01:05	6.0											
9/09/05 01:20	5.8											
9/09/05 01:35	5.6											
9/09/05 01:50	5.5											
9/09/05 02:05	5.5											
9/09/05 02:20	5.4											
9/09/05 02:35	5.2											

Table C.4.2
Continuous DO data collected at 1214

Date and time	DO mg/L
9/09/05 02:50	5.1
9/09/05 03:05	4.9
9/09/05 03:20	4.8
9/09/05 03:35	4.9
9/09/05 03:50	4.7
9/09/05 04:05	4.5
9/09/05 04:20	4.3
9/09/05 04:35	4.5
9/09/05 04:50	3.8
9/09/05 05:05	3.6
9/09/05 05:20	3.2
9/09/05 05:35	3.2
9/09/05 05:50	3.1
9/09/05 06:05	2.6
9/09/05 06:20	2.5
9/09/05 06:35	2.7
9/09/05 06:50	2.5
9/09/05 07:05	2.4
9/09/05 07:20	2.3
9/09/05 07:35	2.2
9/09/05 07:50	2.1
9/09/05 08:05	2.1
9/09/05 08:20	2.1
9/09/05 08:35	2.1
9/09/05 08:50	2.1
9/09/05 09:05	2.2
9/09/05 09:20	2.3
9/09/05 09:35	2.5
9/09/05 09:50	2.6
9/09/05 10:05	2.7
9/09/05 10:20	2.8
9/09/05 10:35	3.2
9/09/05 10:50	2.7
9/09/05 11:05	3.9
9/09/05 11:20	4.1
9/09/05 11:35	7.5
9/09/05 11:50	7.5

Estimation of daily mean DO values at other stations

Ratio of instantaneous DO to daily mean DO		Ratio of instantaneous DO to daily min DO		Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
For 9/07	For 9/08	For 9/07	For 9/08							

Table C.4.2

Continuous DO data collected at 1214

Estimation of daily mean DO values at other stations

Date and time	DO mg/L	Ratio of instantaneous DO to daily mean DO For 9/07	Ratio of instantaneous DO to daily mean DO For 9/08	Ratio of instantaneous DO to daily min DO For 9/07	Ratio of instantaneous DO to daily min DO For 9/08	Station	Date	Time	DO at time of measurement (mg/L)	Estimated daily mean DO (mg/L)	Estimated daily min DO (mg/L)	Estimated daily min DO + 1 (mg/L)
9/09/05 12:05	7.3											
9/09/05 12:20	7.2											
9/09/05 12:35	7.1											
9/09/05 12:50	7.4											
9/09/05 13:05	7.3											
9/09/05 13:20	7.1											
9/09/05 13:35	7.3											
9/09/05 13:50	7.1											
9/09/05 14:05	7.1											
9/09/05 14:20	7.0											
9/09/05 14:35	7.0											
9/09/05 14:50	7.0											
9/09/05 15:05	6.9											
9/09/05 15:20	6.9											
9/09/05 15:35	6.9											
9/09/05 15:50	6.8											
9/09/05 16:05	6.8											
9/09/05 16:20	6.8											
9/09/05 16:35	6.8											
9/09/05 16:50	6.8											
9/09/05 17:05	6.7											
9/09/05 17:20	6.6											
9/09/05 17:35	6.4											
9/09/05 17:50	6.4											
9/09/05 18:05	6.5											
9/09/05 18:20	6.5											
9/09/05 18:35	6.6											
9/09/05 18:50	6.8											
9/09/05 19:05	6.7											
9/09/05 19:20	6.7											
9/09/05 19:35	6.7											
9/09/05 19:50	6.8											

FILE: R:\WP_FILES\2110-616\BLACK CLEAR COMPLEX REPORT\WORD FILES\APPENDICES\APPENDIX C (FTN SURVEY DATA)\EST MIN DO CONTIN_MONITOR_1214-BLACK CLEAR SALINE REPORT.XLS

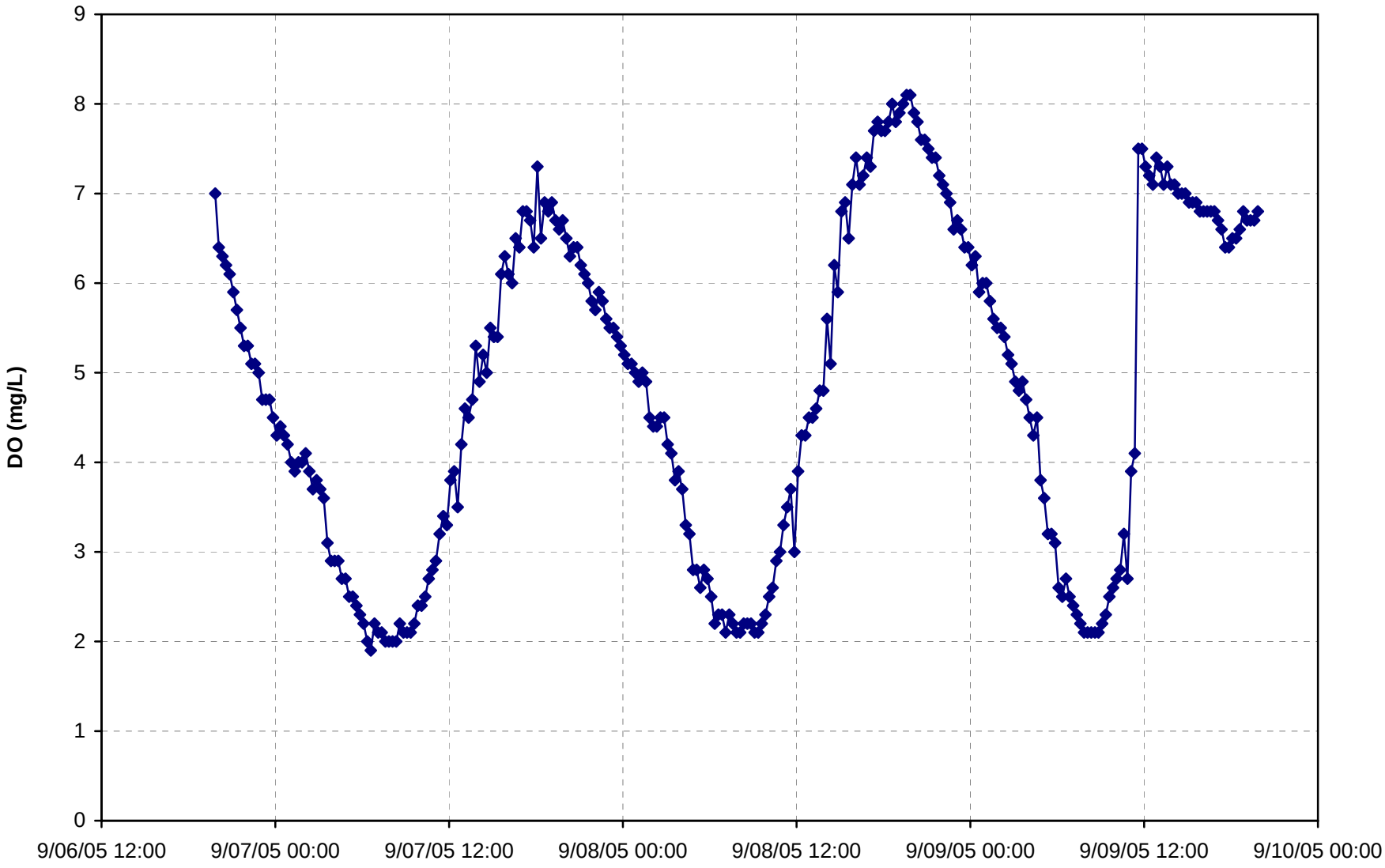
Table C.4.2

Continuous DO data collected at 1214

Table C.10. Summary of continuous DO data at Station 1214.

Stn	Date	Time begin	Date	Time end	Min DO (mg/L)	Max DO (mg/L)	DO swing (mg/L)	Min DO+1 (mg/L)
1214	9/6/2005	19:50	9/7/2006	19:50	1.9	7.3	5.4	2.9
1214	9/7/2006	19:50	9/8/2006	19:50	2.1	8.1	6	3.1
1214	9/8/2006	19:50	9/9/2006	19:50	2.1	8.1	6	3.1

Figure C.4.1. Continuous DO at Station 1214 (Saline Bayou Southeast of Clarence, LA)



APPENDIX D

LA-QUAL Vector Diagram

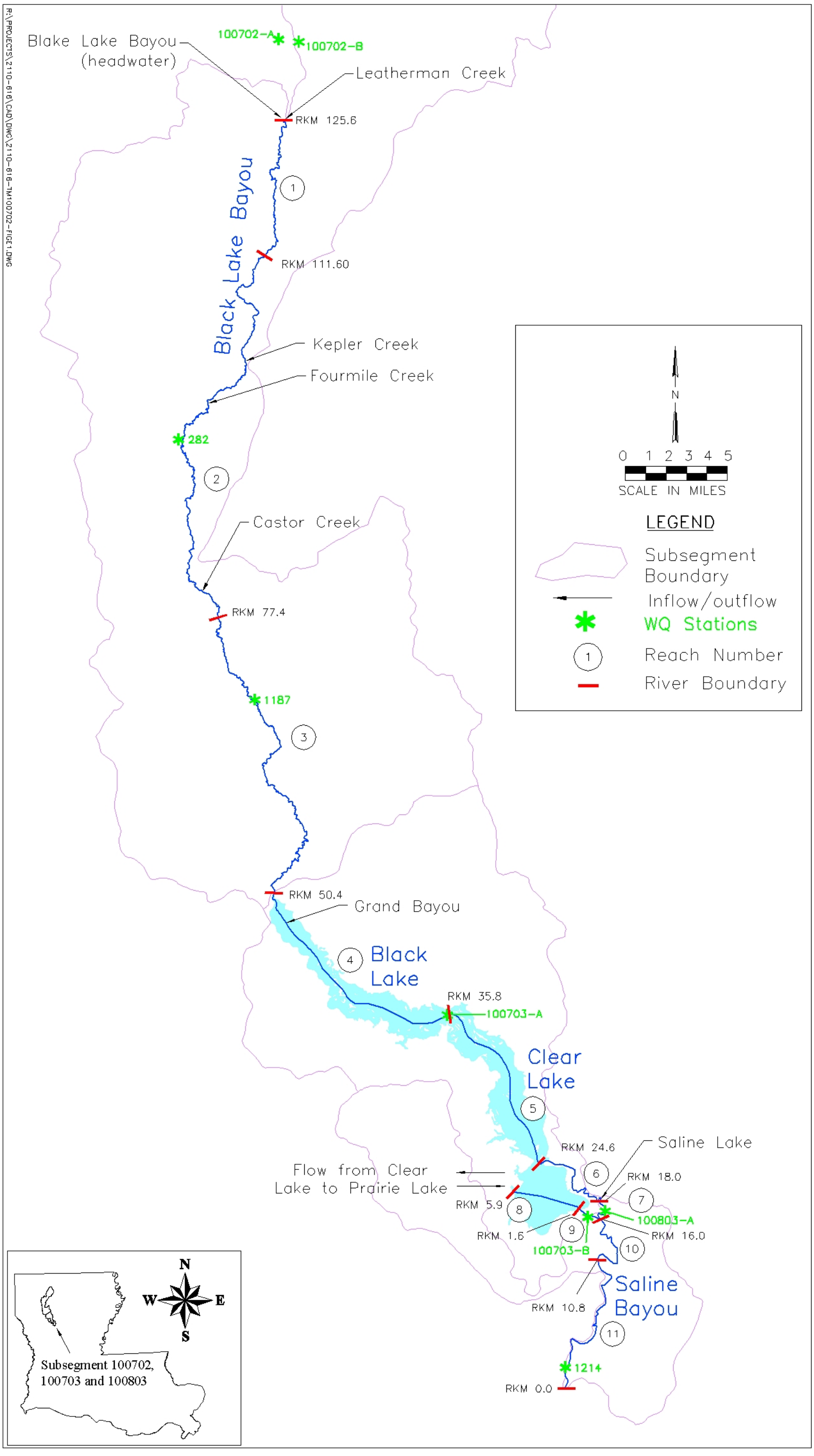


Figure D.1. LA-QUAL vector diagram for Black Lake, Clear Lake and Saline Bayou.

APPENDIX E

Data and Calculations for Hydraulic Coefficients

	begin (RM)	end (RM)	length (miles)	surface area (mi2)	surface area (acres)	average width (mi)	depth (ft)	volume (acre-ft)		average width (m)	average depth (m)
Black	31.3	22.3	9	7.25	4,641.86	0.81	5.00	23,209.30		1296.872419	1.523925632
Clear	22.3	15.3	7	7.39	4,730.32	1.06	16.30	77,091.05		1699.182673	4.967150729
Praire	3.8	1	2.8	4.53	2,899.88	1.62	3.00	8,699.65		2604.175107	0.914355379
Total			18.8	19.18	12,272.06	3.48		109,000.00			

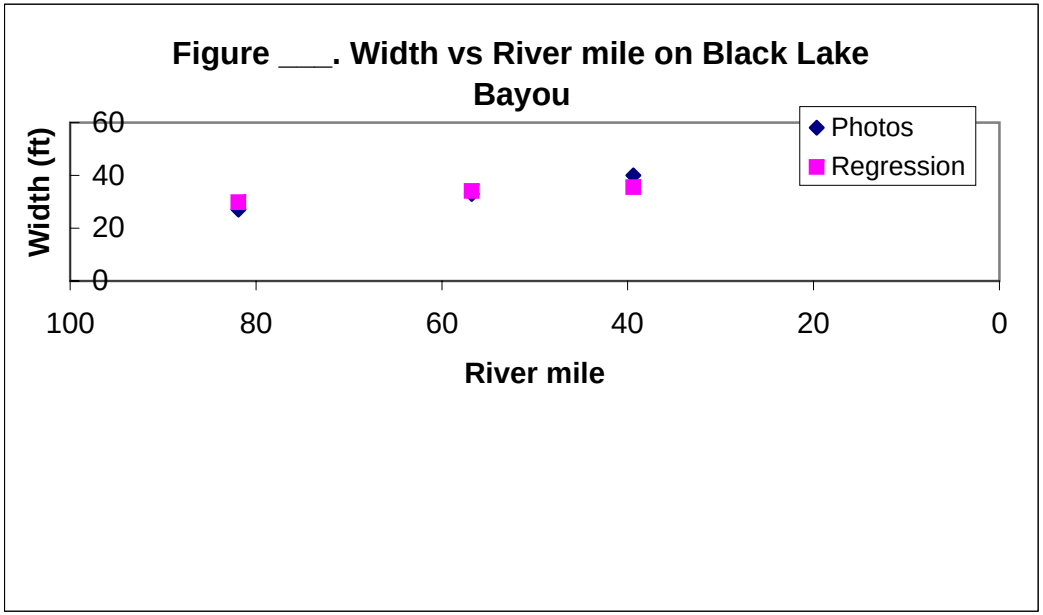
calculat the depth of Clear Lake

Total volume	109,000.00	acre-ft
Black	-23,209.30	acre-ft
Priare	-8,699.65	acre-ft
volume Clear Lake	77,091.05	acre-ft

depth Clear Lake = 16.29722154 ft

St#	RM	River KM	width (ft)	width (m)	depth (ft)	depth (m)
100702-A	81.9	131.8	27	8.23	2.05	0.62
282	56.8	91.4	33	10.06	2.65	0.81
1187	39.4	63.4	40	12.19	3.39	1.03

Depths calculatd here are based on depth width correlation develooped for Saline Bayou.



these coefficients will make the predicted depths and widths match exactly the ones in rows 2-4

	Wid _coeff	dep)coeff
	11.096921	1.917078
	11.862113	1.499215
	13.804742	1.645868
Avg	12.254592	1.687387

St#	flow (cfs)	flow (cms)	wid_coef	power	width (m)	width (ft)	dep_coef	power	depth (m)	depth (ft)
100702-A	2.924	0.083	12.25459	0.12	9.09	29.82	1.687387	0.45	0.55	1.80
282	8.931	0.253	12.25459	0.12	10.39	34.09	1.687387	0.45	0.91	2.98
1187	12.538	0.355	12.25459	0.12	10.82	35.51	1.687387	0.45	1.06	3.47

Black Lake Bayou

flow per unit area = 0.023864254 cfs/mi2, average of two stations from FTN survey

	location	drainage area (mi2)	flow (cfs)	fow (cms)	cumulative flow (cfs)	cumulative flow (cfs)
Headwater	Black Lake Bayou at mouth of Leatherman	122.52	2.924	0.083	2.924	0.083
Trib	Leatherman Creeak at Mouth	127.68	3.047	0.086	5.971	0.169
Trib	Kepler Creek at mouth (RM 63.3)	51.68	1.233	0.035	7.204	0.204
Trib	Fourmile Bayou at mouth (RM 60.6)	35.35	0.844	0.024	8.048	0.228
Trib	Castor Creek at mouth RM (49.5)	40.56	0.968	0.027	9.016	0.255
Trib	Grand Bayou at mouth*** (RM 30)	135.84	3.242	0.092	12.258	0.347
	TOTAL	513.63	12.258	0.347		
end	Black Lake Bayou at Mouth	908.34	21.677	0.614		

	drainage area (mi2)	cfs
Black Lake Bayou at mouth of Kepler	384.99	9.187
Black Lake Bayou at mouth of Fournile	424.46	10.129
Black Lake Bayou at Mouth of Castor	509.88	12.168
Black Lake Bayou at mouth of Black Lake	630.35	15.043

63.6	102.3493
60.6	97.52149
49.5	79.65864
30	48.27796

Incremental inflow = 9.419 cfs, from begining of model to end of Clear Lake

0.151672408 cfs/mi, Black Lake Bayou to Clear Lake (78.1-15.3 = 62.8)

Flow @ 100702-A = 2.924 cfs, RM 81.9

Flow @ 282 = 8.930977435 cfs, RM 56.8

Flow @ 1187 = 12.53807733 cfs, RM 39.4

**** The inflow at Grand Bayou is shown in the drainage area book to be entering Black Lake itself and not Black Lake Bayou.

Saline Bayou

Flow on 9/7/05 =	6.2	cfs at USGS 07352000 Saline Bayou near Lucky, Louisiana
Drainage area =	154	sq mi
flow per unit area =	0.040	cfs/mi2
Saline Bayou at mouth of	1325.410	mi2
Black Lake bayou at mou	908.340	mi2
Saline Bayou at Lake	417.070	mi2
Saline Lake inflow	16.791	cfs
Saline Bayou Flow	38.468	cfs, this is Black Lake Bayou at mouth flow and Saline Lake inflow

	begin (RM)	end (RM)	avg width (ft)	avg depth (ft)	vel (ft/sec)
Saline Bayou_R1	15.3	6.7	165.90	15	0.015458
Saline Bayou_R2	6.7	0	201.85	15	0.0127052

avg depth (ft)	R1 velocity (ft)	R2 velocity (ft)
1	0.231870218	0.190578573
2	0.115935109	0.095289286
3	0.077290073	0.063526191
4	0.057967554	0.047644643
5	0.046374044	0.038115715
6	0.038645036	0.031763095
7	0.033124317	0.02722551
8	0.028983777	0.023822322
9	0.025763358	0.021175397
10	0.023187022	0.019057857
11	0.021079111	0.017325325
12	0.019322518	0.015881548
13	0.017836171	0.01465989
14	0.016562158	0.013612755
15	0.015458015	0.012705238
16	0.014491889	0.011911161
17	0.013639425	0.011210504
18	0.012881679	0.010587698
19	0.012203696	0.010030451
20	0.011593511	0.009528929
21	0.011041439	0.00907517
22	0.010539555	0.008662662
23	0.010081314	0.008286025
24	0.009661259	0.007940774
25	0.009274809	0.007623143
26	0.008918085	0.007329945
27	0.008587786	0.007058466
28	0.008281079	0.006806378
29	0.007995525	0.006571675
30	0.007729007	0.006352619

Incremental Inflows

Reach	length (km)	length (miles)	flow (cfs)	flow (cms)
1	14	8.699621212	1.319492496	0.037358397
2	34.2	21.25193182	3.223331669	0.091261227
3	27	16.77784091	2.544735528	0.072048337
4	14.6	9.072462121	1.376042174	0.038959471
5	11.2	6.95969697	1.055593997	0.029886718
total	101	62.76155303	9.519195863	0.26951415

STEADY STATE CALCULATION OF NET DO FROM PHOTOSYNTHESIS AND RESPIRATION

Value and units	Description of parameter	Data source / comments
36 ug/L	Chlorophyll a concentration	Average of values in all 11 LA-QUAL reaches
60	Carbon to chlorophyll ratio	Table 6-4 in Rates, Constants, Kinetics manual
1.04 /day	Algal growth rate at solar noon	"Calibrated" to maintain steady state chl a conc. (within range of values in Table 6-5 in Rates, Constants, Kinetics manual)
0.15 /day	Algal respiration rate	"Calibrated" to maintain steady state chl a conc. (within range of values in Table 6-18 in Rates, Constants, Kinetics manual)
0.19 m/day	Algal settling rate	"Calibrated" to maintain steady state chl a conc. (within range of values in Table 6-19 in Rates, Constants, Kinetics manual
1.56 m	Depth of photic zone	Equations 7.27 and 7.28 of Thomann and Mueller (1987) and assumed secchi depth of 2.0 ft
2.67 g O2 / g C	Oxygen produced per unit of algal growth	Table 3-29 in Rates, Constants, Kinetics manual (consistent with stoichiometric ratio of 1 mole O2 per mole C in photosynthesis)
2.00 g O2 / g C	Oxygen depleted per unit of algal respiration	Table 3-30 in Rates, Constants, Kinetics manual
6:52 AM	Time of sunrise	For date of field data collection (9/07/05) for Natchitoches, LA
7:28 PM	Time of sunset	For date of field data collection (9/07/05) for Natchitoches, LA

Notes:

1. Limitation of algal growth due to sunlight was assumed to vary during the day as a triangular function between sunrise and sunset.
2. Algae conc (mg/L of C) = Chl a conc (ug/L) / 1000 (ug/L per mg/L) * Carbon:Chl a ratio (mg/L C per mg/L chl a)
3. Algal growth (mg/L of C per day) = Max growth rate (1/day) * limitation of max growth rate * Algae conc. (mg/L of C)
4. Algal respiration (mg/L of C per day) = Respiration rate (1/day) * Algae conc. (mg/L of C)
5. Algal settling (mg/L of C per day) = Settling rate (m/day) / Photic zone depth (m) * Algae conc. (mg/L of C)
6. Photic zone depth (m) = 4.61 / Light extinction coefficient (1/m)
7. Light extinction coefficient (1/m) = 1.8 / Secchi depth (m)
8. Rate of O2 produced from photosynthesis = Algal growth (mg/L of C per day) * 2.67 g O2 / g C
9. Rate of O2 consumed from respiration = Algal respiration (mg/L of C per day) * 2.00 g O2 / g C

Time of day	Limitation of max. algal growth due to sunlight	Algal growth (mg/L of C per day)	Algal respiration (mg/L of C per day)	Algal settling (mg/L of C per day)	Rate of O2 production by photosynth. (mg/L/day)	Rate of O2 consumption by respiration (mg/L/day)
12:00 AM	0	0	0.32	0.26	0	0.65
12:30 AM	0	0	0.32	0.26	0	0.65
1:00 AM	0	0	0.32	0.26	0	0.65

1:30 AM	0	0	0.32	0.26	0	0.65
2:00 AM	0	0	0.32	0.26	0	0.65
2:30 AM	0	0	0.32	0.26	0	0.65
3:00 AM	0	0	0.32	0.26	0	0.65
3:30 AM	0	0	0.32	0.26	0	0.65
4:00 AM	0	0	0.32	0.26	0	0.65
4:30 AM	0	0	0.32	0.26	0	0.65
5:00 AM	0	0	0.32	0.26	0	0.65
5:30 AM	0	0	0.32	0.26	0	0.65
6:00 AM	0	0	0.32	0.26	0	0.65
6:30 AM	0	0	0.32	0.26	0	0.65
7:00 AM	0.021	0.05	0.32	0.26	0.13	0.65
7:30 AM	0.101	0.23	0.32	0.26	0.60	0.65
8:00 AM	0.180	0.40	0.32	0.26	1.08	0.65
8:30 AM	0.259	0.58	0.32	0.26	1.55	0.65
9:00 AM	0.339	0.76	0.32	0.26	2.03	0.65
9:30 AM	0.418	0.94	0.32	0.26	2.50	0.65
10:00 AM	0.497	1.12	0.32	0.26	2.98	0.65
10:30 AM	0.577	1.30	0.32	0.26	3.45	0.65
11:00 AM	0.656	1.47	0.32	0.26	3.93	0.65
11:30 AM	0.735	1.65	0.32	0.26	4.41	0.65
12:00 PM	0.815	1.83	0.32	0.26	4.88	0.65
12:30 PM	0.894	2.01	0.32	0.26	5.36	0.65
1:00 PM	0.974	2.19	0.32	0.26	5.83	0.65
1:30 PM	0.947	2.13	0.32	0.26	5.67	0.65
2:00 PM	0.868	1.95	0.32	0.26	5.20	0.65
2:30 PM	0.788	1.77	0.32	0.26	4.72	0.65
3:00 PM	0.709	1.59	0.32	0.26	4.25	0.65
3:30 PM	0.630	1.41	0.32	0.26	3.77	0.65
4:00 PM	0.550	1.24	0.32	0.26	3.30	0.65
4:30 PM	0.471	1.06	0.32	0.26	2.82	0.65
5:00 PM	0.392	0.88	0.32	0.26	2.35	0.65
5:30 PM	0.312	0.70	0.32	0.26	1.87	0.65
6:00 PM	0.233	0.52	0.32	0.26	1.39	0.65
6:30 PM	0.153	0.34	0.32	0.26	0.92	0.65
7:00 PM	0.074	0.17	0.32	0.26	0.44	0.65
7:30 PM	0	0	0.32	0.26	0	0.65

8:00 PM	0	0	0.32	0.26	0	0.65
8:30 PM	0	0	0.32	0.26	0	0.65
9:00 PM	0	0	0.32	0.26	0	0.65
9:30 PM	0	0	0.32	0.26	0	0.65
10:00 PM	0	0	0.32	0.26	0	0.65
10:30 PM	0	0	0.32	0.26	0	0.65
11:00 PM	0	0	0.32	0.26	0	0.65
11:30 PM	0	0	0.32	0.26	0	0.65
24-hour averages =		0.59	0.32	0.26	1.57	0.65

Net rate of change in algal biomass = 0.59 – 0.32 – 0.26 = 0.00 mg/L of C per day (zero means steady state)

Net rate of change in DO over 24 hrs = 1.57 – 0.65 = 0.92 mg/L of O2 per day

Net DO added to water per unit of chlorophyll over 24 hrs = 0.92 / 36 = 0.026 mg/L of O2 per day per ug/L of chl a

APPENDIX F

Calibration Model Input File

```
"CNTROL01     LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayou"
CNTROL02     Calibration for FTN intensive survey conditions (9/7/2005)
CNTROL03  NO SEQU
CNTROL04 YES METR
CNTROL05 YES OXYG
ENDATA01
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
PROGRAM  HYDRAULIC CALCULATION METHOD      =   2.
PROGRAM  ALGAE OXYGEN PROD                 = 0.023
ENDATA03
THETA    NH3 DECA   1.07
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BL Black Lake Bayou                125.60    111.60    0.2000
REACH ID    2  BL Black Lake Bayou                111.60     77.40    0.2000
REACH ID    3  BL Black Lake Bayou                 77.40     50.40    0.2000
REACH ID    4  BL Black Lake                      50.40     35.80    0.2000
REACH ID    5  CL Clear Lake                      35.80     24.60    0.2000
REACH ID    6  PA Black Lake Bayou                24.60     18.00    0.2000
REACH ID    7  BB Saline Bayou                    18.00     16.00    0.2000
REACH ID    8  BL Praire                           6.00      1.60    0.2000
REACH ID    9  SB Bayou Baubeaux                   1.60      0.00    0.2000
REACH ID   10  SB Saline Bayou                    16.00     10.80    0.2000
REACH ID   11  SB Saline Bayou                    10.80      0.00    0.2000
ENDATA08
HYDR-1      1   11.100  0.120   0.00  1.900  0.450  0.000  0.0000
HYDR-1      2   11.900  0.120   0.00  1.510  0.450  0.000  0.0000
```

```
HYDR-1     3  13.800  0.120   0.00  1.660  0.450  0.000  0.0000
HYDR-1     4   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1     5   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1     6   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1     7   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1     8   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1     9   0.000  0.000  10.00  0.000  0.000 10.000  0.0000
HYDR-1    10   0.000  0.000  50.56  0.000  0.000  4.570  0.0000
HYDR-1    11   0.000  0.000  61.52  0.000  0.000  4.570  0.0000
ENDATA09
ENDATA10
INITIAL    1    23.4          3.88   0.050              76.00   0.00
INITIAL    2    24.7          5.82   0.064              20.00   0.00
INITIAL    3    24.9          5.06   0.096              20.00   0.00
INITIAL    4    26.3          4.59   0.050              20.00   0.00
INITIAL    5    27.6          4.12   0.050              20.00   0.00
INITIAL    6    29.1          4.06   0.050              20.00   0.00
INITIAL    7    30.6          3.99   0.050              34.00   0.00
INITIAL    8    29.8          4.76   0.050              75.00   0.00
INITIAL    9    29.8          4.76   0.050              75.00   0.00
INITIAL   10    30.4          3.55   0.050              42.00   0.00
INITIAL   11    30.2          3.10   0.050              50.00   0.00
ENDATA11
COEFF-1    1   15  0.00 0.00   0.00  2.600   0.06
COEFF-1    2   15  0.00 0.00   0.00  2.400   0.06
COEFF-1    3   15  0.00 0.00   0.00  2.900   0.06
COEFF-1    4   20  0.80 0.00   0.00  2.200   0.06
COEFF-1    5   20  0.80 0.00   0.00  1.600   0.06
COEFF-1    6   20  0.80 0.00   0.00  2.500   0.06
COEFF-1    7   20  0.80 0.00   0.00  6.500   0.06
COEFF-1    8   20  0.80 0.00   0.00  6.500   0.08
COEFF-1    9   20  0.80 0.00   0.00  3.950   0.08
COEFF-1   10   20  0.80 0.00   0.00  3.500   0.06
COEFF-1   11   20  0.80 0.00   0.00  4.050   0.06
ENDATA12
COEFF-2    1   0.02              0.11  0.000
COEFF-2    2   0.02              0.11  0.000
COEFF-2    3   0.02              0.11  0.000
COEFF-2    4   0.02              0.11  0.000
COEFF-2    5   0.02              0.11  0.000
COEFF-2    6   0.02              0.11  0.000
COEFF-2    7   0.02              0.11  0.000
COEFF-2    8   0.02              0.11  0.000
```

```
COEFF-2     9     0.02              0.11  0.000
COEFF-2    10     0.02              0.11  0.000
COEFF-2    11     0.02              0.11  0.000
ENDATA13
ENDATA14
ENDATA15
INCR-1      1            0.0374    25.00    0.000    0.000    0.000
INCR-1      2            0.0913    25.00    0.000    0.000    0.000
INCR-1      3            0.0720    25.00    0.000    0.000    0.000
INCR-1      4            0.0390    25.00    0.000    0.000    0.000
INCR-1      5            0.0299    25.00    0.000    0.000    0.000
ENDATA16
INCR-2      1      4.18     2.00    2.000    0.200    0.050
INCR-2      2      4.18     2.00    2.000    0.200    0.050
INCR-2      3      4.18     2.00    2.000    0.200    0.050
INCR-2      4      4.18     2.00    2.000    0.200    0.050
INCR-2      5      4.18     2.00    2.000    0.200    0.050
ENDATA17
ENDATA18
NONPOINT    1        20      1.5
NONPOINT    2        60      2.2
NONPOINT    3        30       20
NONPOINT    4       850       55
NONPOINT    5       750       40
NONPOINT    6       500       25
NONPOINT    7       300       20
NONPOINT    8       720       18
NONPOINT    9       520        7
NONPOINT   10      1100       45
NONPOINT   11      2900      125
ENDATA19
HDWTR-1     1  Black Lake Bayou          0.08300    23.4            0.0     0.0
HDWTR-1   549  Praire                    0.30700    29.1            0.0     0.0
ENDATA20
HDWTR-2     1       4.2     2.56     1.38     0.22     0.00
HDWTR-2   549      3.63     7.24     1.60     0.23     0.00
ENDATA21
HDWTR-3     1      0.00     20.0     0.00     0.00
HDWTR-3   549      0.00     20.0     0.00     0.00
ENDATA22
JUNCTION  579  548     Clear Lake and Praire
ENDATA23
WSTLD-1     1  Letherman Creek       0.08300     23.3              0.0      0.0
```

```
WSTLD-1   119  Kepler Creek        0.03500    29.7          0.0     0.0
WSTLD-1   142  FourMile Creek      0.02400    24.7          0.0     0.0
WSTLD-1   231  Castor Creek        0.02700    24.7          0.0     0.0
WSTLD-1   388  Grand Bayou         0.09200    24.4          0.0     0.0
WSTLD-1   505  Clear Lake out      -0.3070    29.1          0.0     0.0
WSTLD-1   539  Saline Lake         0.47540    30.6          0.0     0.0
ENDATA24
WSTLD-2     1      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   119      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   142      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   231      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   388      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   505     3.63    7.24    0    1.60    0.23    0    0.05
WSTLD-2   539      4.2     2.6    0     1.4    0.22    0    0.05
ENDATA25
WSTLD-3     1      0.0    20.0    0
WSTLD-3   119      0.0    20.0    0
WSTLD-3   142      0.0    20.0    0
WSTLD-3   231      0.0    20.0    0
WSTLD-3   388      0.0    20.0    0
WSTLD-3   505      0.0    20.0    0
WSTLD-3   539      0.0    20.0    0
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =   9
PLOT RCH  1  2  3  4  5  6  7 10 11
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  8  9
ENDATA30
OVERLAY 1 Main.OVL                  :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL                :Praire; Bayou Barbeaux
ENDATA31
```

```
"CNTROL01     LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayou"
CNTROL02     Calibration for FTN intensive survey conditions (9/7/2005)
CNTROL03  NO SEQU
CNTROL04 YES METR
CNTROL05 YES OXYG
ENDATA01
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
PROGRAM  HYDRAULIC CALCULATION METHOD      =   2.
PROGRAM  ALGAE OXYGEN PROD                 = 0.026
ENDATA03
THETA    NH3 DECA   1.07
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BL Black Lake Bayou                125.60    111.60    0.2000
REACH ID    2  BL Black Lake Bayou                111.60     77.40    0.2000
REACH ID    3  BL Black Lake Bayou                 77.40     50.40    0.2000
REACH ID    4  BL Black Lake                      50.40     35.80    0.2000
REACH ID    5  CL Clear Lake                      35.80     24.60    0.2000
REACH ID    6  PA Black Lake Bayou                24.60     18.00    0.2000
REACH ID    7  BB Saline Bayou                    18.00     16.00    0.2000
REACH ID    8  BL Praire                           6.00      1.60    0.2000
REACH ID    9  SB Bayou Baubeaux                   1.60      0.00    0.2000
REACH ID   10  SB Saline Bayou                    16.00     10.80    0.2000
REACH ID   11  SB Saline Bayou                    10.80      0.00    0.2000
ENDATA08
HYDR-1      1   11.100  0.120   0.00  1.900  0.450  0.000  0.0000
HYDR-1      2   11.900  0.120   0.00  1.510  0.450  0.000  0.0000
```

```
HYDR-1     3  13.800  0.120   0.00  1.660  0.450  0.000  0.0000
HYDR-1     4   0.000  0.000   1297  0.000  0.000  1.520  0.0000
HYDR-1     5   0.000  0.000   1699  0.000  0.000  4.970  0.0000
HYDR-1     6   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     7   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     8   0.000  0.000   2604  0.000  0.000  0.910  0.0000
HYDR-1     9   0.000  0.000     61  0.000  0.000  3.120  0.0000
HYDR-1    10   0.000  0.000  50.56  0.000  0.000  4.570  0.0000
HYDR-1    11   0.000  0.000  61.52  0.000  0.000  4.570  0.0000
ENDATA09
ENDATA10
INITIAL    1    23.4        3.88   0.050              20.00    0.00
INITIAL    2    24.7        5.82   0.064              20.00    0.00
INITIAL    3    24.9        5.06   0.096              20.00    0.00
INITIAL    4    26.3        4.59   0.050              20.00    0.00
INITIAL    5    27.6        4.12   0.050              20.00    0.00
INITIAL    6    29.1        4.06   0.050              20.00    0.00
INITIAL    7    30.6        3.99   0.050              34.00    0.00
INITIAL    8    29.8        4.76   0.050              75.00    0.00
INITIAL    9    29.8        4.76   0.050              75.00    0.00
INITIAL   10    30.4        3.55   0.050              42.00    0.00
INITIAL   11    30.2        3.10   0.050              50.00    0.00
ENDATA11
COEFF-1    1    15  0.00 0.00   0.00  2.200   0.06
COEFF-1    2    15  0.00 0.00   0.00  2.450   0.06
COEFF-1    3    15  0.00 0.00   0.00  3.000   0.06
COEFF-1    4    20  0.80 0.00   0.00  2.175   0.06
COEFF-1    5    20  0.80 0.00   0.00  2.225   0.06
COEFF-1    6    20  0.80 0.00   0.00  3.250   0.06
COEFF-1    7    20  0.80 0.00   0.00  4.750   0.06
COEFF-1    8    20  0.80 0.00   0.00  2.200   0.08
COEFF-1    9    20  0.80 0.00   0.00  1.900   0.08
COEFF-1   10    20  0.80 0.00   0.00  4.500   0.06
COEFF-1   11    20  0.80 0.00   0.00  4.650   0.06
ENDATA12
COEFF-2    1    0.02            0.11  0.000
COEFF-2    2    0.02            0.11  0.000
COEFF-2    3    0.02            0.11  0.000
COEFF-2    4    0.02            0.11  0.000
COEFF-2    5    0.02            0.11  0.000
COEFF-2    6    0.02            0.11  0.000
COEFF-2    7    0.02            0.11  0.000
COEFF-2    8    0.02            0.11  0.000
```

```
COEFF-2     9     0.02              0.11  0.000
COEFF-2    10     0.02              0.11  0.000
COEFF-2    11     0.02              0.11  0.000
ENDATA13
ENDATA14
ENDATA15
INCR-1      1            0.0374    25.00    0.000    0.000    0.000
INCR-1      2            0.0913    25.00    0.000    0.000    0.000
INCR-1      3            0.0720    25.00    0.000    0.000    0.000
INCR-1      4            0.0390    25.00    0.000    0.000    0.000
INCR-1      5            0.0299    25.00    0.000    0.000    0.000
ENDATA16
INCR-2      1      4.18     2.00    2.000    0.200    0.050
INCR-2      2      4.18     2.00    2.000    0.200    0.050
INCR-2      3      4.18     2.00    2.000    0.200    0.050
INCR-2      4      4.18     2.00    2.000    0.200    0.050
INCR-2      5      4.18     2.00    2.000    0.200    0.050
ENDATA17
ENDATA18
NONPOINT    1        20      1.5
NONPOINT    2        60      2.3
NONPOINT    3        30     20.5
NONPOINT    4     15800     1090
NONPOINT    5     52000     3600
NONPOINT    6      2250      155
NONPOINT    7       900       55
NONPOINT    8     15500      400
NONPOINT    9       820       15
NONPOINT   10       700       47
NONPOINT   11      2975      130
ENDATA19
HDWTR-1     1  Black Lake Bayou         0.08300    23.4            0.0     0.0
HDWTR-1   549  Praire                   0.30700    29.1            0.0     0.0
ENDATA20
HDWTR-2     1       4.2     2.56     1.38     0.22     0.00
HDWTR-2   549      3.63     7.24     1.60     0.23     0.00
ENDATA21
HDWTR-3     1      0.00     20.0     0.00     0.00
HDWTR-3   549      0.00     20.0     0.00     0.00
ENDATA22
JUNCTION  579  548     Clear Lake and Praire
ENDATA23
WSTLD-1     1  Letherman Creek       0.08300     23.3              0.0      0.0
```

```
WSTLD-1   119  Kepler Creek        0.03500    29.7          0.0     0.0
WSTLD-1   142  FourMile Creek      0.02400    24.7          0.0     0.0
WSTLD-1   231  Castor Creek        0.02700    24.7          0.0     0.0
WSTLD-1   388  Grand Bayou         0.09200    24.4          0.0     0.0
WSTLD-1   505  Clear Lake out      -0.3070    29.1          0.0     0.0
WSTLD-1   539  Saline Lake         0.47540    30.6          0.0     0.0
ENDATA24
WSTLD-2     1      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   119      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   142      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   231      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   388      4.2     2.6    0     1.4    0.22    0    0.05
WSTLD-2   505     3.63    7.24    0    1.60    0.23    0    0.05
WSTLD-2   539      4.2     2.6    0     1.4    0.22    0    0.05
ENDATA25
WSTLD-3     1      0.0    20.0    0
WSTLD-3   119      0.0    20.0    0
WSTLD-3   142      0.0    20.0    0
WSTLD-3   231      0.0    20.0    0
WSTLD-3   388      0.0    20.0    0
WSTLD-3   505      0.0    20.0    0
WSTLD-3   539      0.0    20.0    0
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =   9
PLOT RCH  1  2  3  4  5  6  7 10 11
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  8  9
ENDATA30
OVERLAY 1 Main.OVL                  :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL                :Praire; Bayou Barbeaux
ENDATA31
```

APPENDIX G

Literature Values for Mineralization Rates

Table G.1. Summary of NBOD and CBOD decay rates frrom LDEQ Intensive survey.

Subsegment	Sample Location	CBOD Decay (1/day)	CBODu (mg/L)	NBOD Decay (1/day)	NBODu (mg/L)
080102	Bayou Chauvin @ Hwy. 139 Bridge	0.06	25.33	0.26	8.18
	Bayou Chauvin @ Leisure Village1	0.07	10.04	0.20	2.88
	Bayou Chauvin @ Leisure Village2	0.06	10.13	0.24	2.82
	Bayou Chauvin @ Ouachita Levee	0.10	21.30	0.10	7.00
	Bayou Chauvin @ USGS Control Structure	0.08	16.93	0.18	4.38
	Bayou Chauvin @ West Elmwood Rd.	0.07	17.11	0.18	4.94
	Bayou Desiard @ USGS Wier	0.08	10.31	0.13	2.38
030104	Mill Creek @ Highway 112	0.07	6.49	0.06	1.20
	Mill Creek @ iron bridge	0.04	13.22	0.08	1.84
	Mill Creek @ Oakdale Road	0.06	5.49	0.06	0.80
	Mill Creek @ Tower Road	0.04	16.42	0.09	2.18
	Mill Creek Just above the confluence with Calcasieu	0.04	10.37	0.05	0.64
030603	Marsh Bayou @ confluence of Calcasieu River	0.05	3.42	0.09	0.36
	Marsh Bayou @ Marsh Bayou Road	0.08	22.92	0.11	5.83
	Marsh Bayou @ Topsy Road	0.08	24.00	0.25	8.97
	Marsh Bayou @ Welcome Road	0.06	12.19	0.42	11.47
	Marsh Bayou Calcasieu River below confluence of Mars	0.05	3.48	0.06	0.42
	Marsh Bayou Site 1 Duplicate	0.06	3.52	0.03	0.61
030805	Indian Bayou - INDB1	0.04	9.87	0.08	0.98
	Indian Bayou - INDB2	0.05	10.79	0.07	1.05
	Indian Bayou - INDB3	0.09	11.41	0.10	2.64
	Indian Bayou - INDB4	0.06	17.83	0.07	2.55
	Indian Bayou - INDB5	0.08	10.98	0.15	2.68
030804	Little River - LR1	0.04	9.34	0.07	1.07
	Little River - LR2	0.03	15.44	0.12	1.22
	Little River - LR3	0.03	11.29	0.05	0.94
	Little River - LR4	0.04	14.61	0.06	0.77
	Little River - LR5	0.03	13.78	0.06	0.90
	Little River - LR7	0.03	22.10	0.01	1.01
081504	FLCR1 / Flat Creek @ Hwy. 147	0.04	15.66	0.04	3.79
	FLCR2 / Flat Creek @ Hwy. 127	0.03	14.71	0.05	1.18
	FLCR3 / Flat Creek @ confluence with Castor Creek-~ 3 miles	0.05	8.75	0.09	1.30
030701	BS10 / Bayou Serpent Upstream of confluence with Thompson Gul	0.03	10.25	0.04	1.19
	BS12 / Bayou Serpent Upstream of the confluence with Little B	0.03	10.33	0.06	1.26
	BS13 / Bayou Serpent Midway between Little Bayou and Unnamed	0.03	9.86	0.04	1.21
	BS14 / Bayou Serpent @ Hwy. 383	0.03	9.36	0.04	1.09
	BS16 / Bayou Serpent @ Hecker Rd.	0.04	8.83	0.06	1.35
	BS18 / Bayou Serpent @ Segment boundary	0.04	7.65	0.04	1.40
	BS19 / Bayou Serpent Bayou Alligator @ Lauderdale Rd (Hwy. 99	0.04	24.46	0.06	3.70
	BS25 / Bayou Serpent Unnamed Trib 5 at Country Rd.	0.04	8.43	0.06	1.16
	BS26 / Bayou Serpent Unnamed Trib 5 @ US Hwy. 165	0.04	9.84	0.04	1.36
	BS27 / Bayou Serpent Cow Bayou @ Parish Line Rd.	0.04	7.82	0.07	0.90
	BS29 / Bayou Serpent Little Bayou Upstream of Confluence with	0.06	12.04	0.07	1.33
	BS3 / Bayou Serpent @ Neilson Rd.	0.05	9.25	0.07	2.09
	BS5 / Bayou Serpent Upstream of weir	0.03	12.66	0.05	1.86
	BS6 / Bayou Serpent @ Hwy. 3086 Downstream of the weir	0.03	12.12	0.06	1.76
	BS8 / Bayou Serpent Bayou Serpent @ Upstream of US Hwy. 165	0.03	10.15	0.05	1.19
081401	DR10 / Dugdemona River Smurfit-Stone outfall canal sampling sit	0.05	37.90	0.10	5.87
	DR12 / Dugdemona River @ LA 4 located W. of Jonesboro	0.03	20.91	0.06	1.39
	DR13 / Dugdemona River @ Parish Rd. W of Evergreen Rd. S. of LA	0.03	13.83	0.05	0.91
	DR14 / Dugdemona River @ LA 126 located just E of Brewtons Mill	0.03	11.15	0.09	0.78
	DR15 / Dugdemona River @ Carter Crossing Rd. located off Hwy. 5	0.03	7.21	0.03	0.67
	DR16 / Dugdemona River just past Restriction below Big Creek do	0.03	7.39	0.04	0.65
	DR19 / Dugdemona River Cypress Creek in Jackson-Bienville Wildl	0.05	6.59	0.04	0.89
	DR32 / Dugdemona River Little Dugdemona River @ Hwy. 167 betwee	0.05	9.07	0.07	1.33
	DR41 / Dugdemona River Big Creek @ LA 505 SW of Dodson	0.05	11.13	0.05	0.96
	DR5 / Dugdemona River @ Union Church Rd. (Parish Rd. 122)	0.03	6.72	0.04	0.52
	DR6 / Dugdemona River located just W. of Quitman	0.04	7.12	0.04	0.69
	DR7 / Dugdemona River located just W. of Hodge	0.05	9.32	0.03	0.87
	DR9 / Dugdemona River "In canal, upstream of Smurfit-Stone outf"	0.04	135.26	0.13	29.26
	DR25 / Dugdemona River Madden Creek/Redwine Creek @ Turner Rd.	0.03	6.72	0.03	0.85
081501	CC1 / Castor Creek @ Hwy. 124 above spillway	0.03	9.58	0.09	0.62
	CC2 / Castor Creek @ Hwy. 127	0.03	10.13	0.03	1.17
	CC3 / Castor Creek @ Hwy. 506	0.03	9.19	0.15	0.84
	CC4 / Castor Creek @ Hwy. 126	0.04	14.15	0.09	1.76
	CC5 / Castor Creek @ Hwy. 846	0.03	16.37	0.11	0.92
	CC6 / Castor Creek @ Hwy. 4	0.07	11.74	0.17	2.04
	CC7 / Castor Creek @ Hwy. 34	0.03	14.85	0.18	0.67
	CC8 / Castor Creek @ Chatham Cemetery Road	0.04	14.74	0.04	0.58
080907	TC12 / Turkey Creek unnamed tributary at Main Street	0.14	7.79	0.11	1.37
	TC13 / Turkey Creek Winnsboro Municipal POTW effluent ditch	0.11	2.95	0.02	2.34
	TC15 / Turkey Creek Unnamed Trib #2 on Hwy. 865	0.10	2.25	0.13	0.96
	TC19 / Turkey Creek Unnamed Trib at Dummy Line Rd.	0.07	7.67	0.06	1.37
	TC2 / Turkey Creek @ Alice Shaw Rd.	0.08	8.35	0.07	1.48
	TC4 / Turkey Creek @ Hwy. 15	0.10	4.52	0.13	1.17
	TC6 / Turkey Creek @ Green Light Rd.	0.09	5.60	0.07	1.34
	TC9 / Turkey Creek @ Hwy. 128	0.08	6.50	0.09	1.60
	TC99 / Turkey Creek above dam	0.08	6.64	0.13	3.22
080901	LBR202 / Lower Boeuf River End of Peckerwood Rd. off Hwy. 561	0.10	8.50	0.06	1.78
	LBR204 / Lower Boeuf River Downstream of Muddy Bayou	0.07	13.41	0.06	2.40
	LBR205 / Lower Boeuf River Downstream of Big Creek	0.11	7.98	0.03	2.83

Subsegment	Sample Location	CBOD Decay (1/day)	CBODu (mg/L)	NBOD Decay (1/day)	NBODu (mg/L)
	LBR207 / Lower Boeuf River Downstream of Upper Goose Creek	0.11	12.98	0.06	3.47
	LBR209 / Lower Boeuf River Upstream of Bayou Marengo	0.12	16.26	0.06	3.87
	LBR211 / Lower Boeuf River Downstream of Bayou Lafourche Cutoff @ H	0.10	9.80	0.04	2.91
	LBR214 / Lower Boeuf River Downstream of Lower Eagle Creek	0.08	6.70	0.07	1.78
	LBR216 / Lower Boeuf River Downstream of Grassy and Big Grassy Bayo	0.08	5.47	0.05	1.49
	LBR218 / Lower Boeuf River Downstream of Lower Goose Creek	0.09	5.76	0.05	1.76
	LBR220 / Lower Boeuf River Downstream of Duck Creek	0.09	6.70	0.05	1.44
	LBR222 / Lower Boeuf River Upstream of Turkey Creek	0.08	6.77	0.07	1.58
	LBR224 / Lower Boeuf River Downstream of Deer Creek	0.08	5.83	0.04	1.70
	LBR226 / Lower Boeuf River Dave's Bayou: Upstream from Boeuf River	0.11	8.60	0.05	2.10
	LBR228 / Lower Boeuf River Big Creek: Upstream from Boeuf River	0.10	6.83	0.09	1.47
	LBR229 / Lower Boeuf River Upper Goose Creek: Upstream from Boeuf	0.14	42.65	0.06	12.62
	LBR231 / Lower Boeuf River Bayou Lafourche Cutoff: Upstream from B	0.10	6.52	0.06	1.89
	LBR232 / Lower Boeuf River Lower Eagle Creek: Upstream from Boeuf	0.09	8.44	0.10	2.18
	LBR233 / Lower Boeuf River Big Grassy Bayou: Upstream from Boeuf Ri	0.11	7.28	0.07	1.97
	LBR234 / Lower Boeuf River Grassy Bayou: Upstream from Boeuf River	0.08	5.67	0.03	2.08
	LBR237 / Lower Boeuf River Turkey Creek: Upstream from Boeuf River	0.08	7.44	0.05	1.86
	LBR238 / Lower Boeuf River Deer Creek: Upstream from Boeuf River	0.09	11.19	0.07	3.27
030806	HR1 / Houston River @ Edgerly Dequincy Rd.	0.04	11.96	0.38	1.14
	HR2 / Houston River @ Hwy. 27 #1	0.05	19.88	0.27	2.45
	HR2 / Houston River @ Hwy. 27 #2	0.05	19.16	0.17	2.54
	HR3 / Houston River ~ 500 yds. above confluence of West Fork	0.09	14.03	0.32	6.95
	HR4 / Houston River Buxton Creek on Route 66	0.04	9.77	0.09	0.98
030807	BCH1 / Bear Head Creek @ Hwy. 110 SE of Merryville	0.05	15.60	0.18	1.42
	BCH2 / Bear Head Creek @ Hwy. 109 SW of Singer	0.04	21.35	0.06	1.05
	BCH3 / Bear Head Creek @ Hwy. 389 E of Fields	0.06	18.37	0.17	1.71
	BCH4 / Bear Head Creek @ Green Island Rd. N of Starks	0.04	20.43	0.06	1.61
	BCH5 / Bear Head Creek @ Hwy. 12 NE of Starks	0.05	21.49	0.13	1.53
	BCH6 / Bear Head Creek @ Creek Rd.	0.04	14.90	0.09	1.29
080701	BDS1 / Bayou Desiard Bayou Bartholomew @ Lake Bartholomew pum	0.05	5.12	0.20	0.91
	BDS10 / Bayou Desiard Bayou Desiard @ Treasure Island Rd nr La	0.15	15.95	0.07	2.27
	BDS11 / Bayou Desiard Bayou Desiard @ overflow to Bayou Chauvi	0.07	12.80	0.10	2.05
	BDS13 / Bayou Desiard Bayou Desiard 200 ft to 300 ft downstrea	0.08	17.69	0.05	3.59
	BDS14 / Bayou Desiard Bayou Desiard @ Stadium Dr	0.07	18.35	0.09	3.81
	BDS15 / Bayou Desiard Bayou Desiard @ Phillips Bridge	0.07	13.17	0.20	3.84
	BDS16 / Bayou Desiard Hog Bayou outlet from Bayou Desiard	0.06	11.91	0.34	2.07
	BDS17 / Bayou Desiard Intake to the City of Monroe WTP	0.06	9.68	0.07	2.32
	BDS2 / Bayou Desiard Bayou Bartholomew @ Lake Bartholomew lak	0.08	7.05	0.09	1.52
	BDS20 / Bayou Desiard Control structure between Black Bayou La	0.06	17.95	0.11	2.25
	BDS21 / Bayou Desiard Hannah Run @ the control structure betwe	0.07	14.04	0.18	2.61
	BDS3 / Bayou Desiard Midpoint on Lake Bartholomew right fork	0.10	8.01	0.07	1.73
	BDS4 / Bayou Desiard Midpoint on Lake Bartholomew left fork	0.07	9.69	0.12	1.53
	BDS6 / Bayou Desiard Lake Bartholomew @ US 165 control struct	0.09	8.60	0.09	1.74
	BDS7 / Bayou Desiard Bayou Desiard @ US 165 control structure	0.10	13.78	0.09	2.88
	BDS8 / Bayou Desiard "Bayou Desiard @ LA 134 near Fairbanks, L"	0.11	17.41	0.34	2.78
	BDS9 / Bayou Desiard Bayou Desiard @ Richland Drive off US 16	0.08	12.10	0.06	2.43
080909	CL1 - N of Start, LA (Culverts at Conley Rd)	0.09	5.35	0.14	2.01
	CL1 - N of Start, LA (Culverts at Conley Rd)	0.09	5.83	0.15	2.09
	CL2 - N of Start, LA (@ Hwy 595 Bridge)	0.10	8.67	0.22	1.57
	CL3 - W of Start, LA (on Crew Lake Loop Rd)	0.11	8.24	0.09	2.01
	CL4 - Southwest of Start, LA (@ boat launch of	0.11	7.37	0.12	1.83
080903	Big Creek Survey Site 1 (A)	0.05	10.09	0.25	1.84
	Big Creek Survey Site 13 (A)	0.04	16.44	0.20	3.26
	Big Creek Survey Site 3 (A)	0.04	9.66	0.25	1.99
	Big Creek Survey Site 7 (A)	0.05	10.86	0.13	1.83
080903	Big Creek Survey Site 1 (B)	0.06	8.13	0.07	0.93
	Big Creek Survey Site 13 (B)	0.04	17.59	0.14	3.70
	Big Creek Survey Site 3 (B)	0.06	9.21	0.06	1.17
	Big Creek Survey Site 7 (B)	0.08	14.71	0.09	2.00
	Median	0.06	10.14	0.07	1.71
	Average	0.06	12.63	0.10	2.33
	Maximum	0.15	135.26	0.42	29.26
	Minimum	0.03	2.25	0.01	0.36
	Standard Deviation	0.03	12.04	0.08	2.95

FILE: R:\PROJECTS\2110-616\TECH\LDEQ SURVEYS\NITRIFIC RATES\NBOD DATA 2001-RRB.XLS

Table G.2. LDEQ Intensive Survey Data for Subsegments in the Ouachita and Calcasieu Basins With At Least 70% Forest.

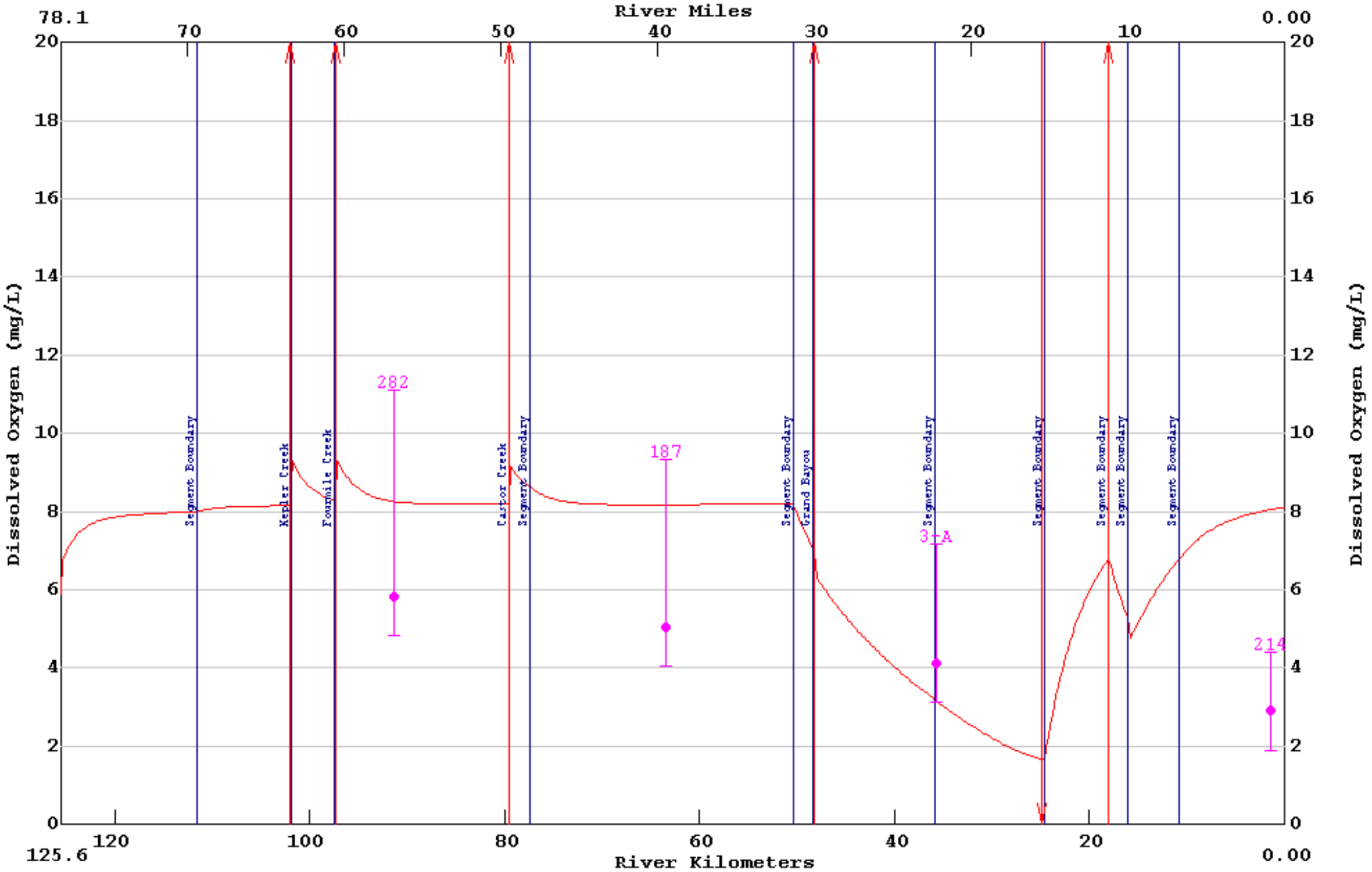
Subseg #	Sample No.	CBOD decay rate	UCBOD (mg/l)	Initial TOC (mg/l)	NBOD decay rate	UNBOD (mg/l)	Ratio CBODu / TOC
030401	Mill Creek @ Highway 112	0.07	6.49	6.10	0.06	1.20	1.06
	Mill Creek @ iron bridge	0.04	13.22	15.30	0.08	1.84	0.86
	Mill Creek @ Oakdale Road	0.06	5.49	7.80	0.06	0.80	0.70
	Mill Creek @ Tower Road	0.04	16.42	18.00	0.09	2.18	0.91
	Mill Creek Just above the confluence with Calcasieu	0.04	10.37	12.10	0.05	0.64	0.86
030807	BCH1 / Bear Head Creek @ Hwy. 110 SE of Merryville	0.05	15.60	10.80	0.18	1.42	1.44
	BCH2 / Bear Head Creek @ Hwy. 109 SW of Singer	0.04	21.35	15.90	0.06	1.05	1.34
	BCH3 / Bear Head Creek @ Hwy. 389 E of Fields	0.06	18.37	17.90	0.17	1.71	1.03
	BCH4 / Bear Head Creek @ Green Island Rd. N of Starks	0.04	20.43	20.10	0.06	1.61	1.02
	BCH5 / Bear Head Creek @ Hwy. 12 NE of Starks	0.05	21.49	16.40	0.13	1.53	1.31
	BCH6 / Bear Head Creek @ Creek Rd.	0.04	14.90	2.00	0.09	1.29	7.45
081501	CC1 / Castor Creek @ Hwy. 124 above spillway	0.03	9.58	12.10	0.09	0.62	0.79
	CC2 / Castor Creek @ Hwy. 127	0.03	10.13	11.80	0.03	1.17	0.86
	CC3 / Castor Creek @ Hwy. 506	0.03	9.19	14.00	0.15	0.84	0.66
	CC4 / Castor Creek @ Hwy. 126	0.04	14.15	15.30	0.09	1.76	0.92
	CC5 / Castor Creek @ Hwy. 846	0.03	16.37	16.10	0.11	0.92	1.02
	CC6 / Castor Creek @ Hwy. 4	0.07	11.74	14.40	0.17	2.04	0.82
	CC7 / Castor Creek @ Hwy. 34	0.03	14.85	14.70	0.18	0.67	1.01
	CC8 / Castor Creek @ Chatham Cemetery Road	0.04	14.74	14.50	0.04	0.58	1.02
081401	DR10 / Dugdemona River Smurfit-Stone outfall canal sampling sit	0.05	37.90	29.00	0.10	5.87	1.31
	DR12 / Dugdemona River @ LA 4 located W. of Jonesboro	0.03	20.91	26.90	0.06	1.39	0.78
	DR13 / Dugdemona River @ Parish Rd. W of Evergreen Rd. S. of LA	0.03	13.83	22.60	0.05	0.91	0.61
	DR14 / Dugdemona River @ LA 126 located just E of Brewtons Mill	0.03	11.15	21.70	0.09	0.78	0.51
	DR15 / Dugdemona River @ Carter Crossing Rd. located off Hwy. 5	0.03	7.21	15.40	0.03	0.67	0.47
	DR16 / Dugdemona River just past Restriction below Big Creek do	0.03	7.39	14.40	0.04	0.65	0.51
	DR19 / Dugdemona River Cypress Creek in Jackson-Bienville Wildl	0.05	6.59	6.60	0.04	0.89	1.00
	DR32 / Dugdemona River Little Dugdemona River @ Hwy. 167 betwee	0.05	9.07	2.00	0.07	1.33	4.53
	DR41 / Dugdemona River Big Creek @ LA 505 SW of Dodson	0.05	11.13	12.00	0.05	0.96	0.93
	DR5 / Dugdemona River @ Union Church Rd. (Parish Rd. 122)	0.03	6.72	2.00	0.04	0.52	3.36
	DR6 / Dugdemona River located just W. of Quitman	0.04	7.12	8.00	0.04	0.69	0.89
	DR7 / Dugdemona River located just W. of Hodge	0.05	9.32	8.00	0.03	0.87	1.16
	DR9 / Dugdemona River "In canal, upstream of Smurfit-Stone outf"	0.04	135.26	51.30	0.13	29.26	2.64
	DR25 / Dugdemona River Madden Creek/Redwine Creek @ Turner Rd.	0.03	6.72	7.50	0.03	0.85	0.90
081504	FLCR1 / Flat Creek @ Hwy. 147	0.04	15.66	20.30	0.04	3.79	0.77
	FLCR2 / Flat Creek @ Hwy. 127	0.03	14.71	15.70	0.05	1.18	0.94
	FLCR3 / Flat Creek @ confluence with Castor Creek-~ 3 miles	0.05	8.75	12.80	0.09	1.30	0.68
	Count	36	36	36	36	36	36
	Min	0.03	5.49	2.00	0.03	0.52	0.47
	Average	0.04	16.51	14.76	0.08	2.11	1.31
	Median	0.04	12.48	14.45	0.06	1.11	0.93
	Max	0.07	135.26	51.30	0.18	29.26	7.45

FILE: R:\PROJECTS\2110-616\TECH\LDEQ SURVEYS\NITRIFIC RATES\NBOD DATA 2001-RRB.XLS

APPENDIX H

Plots of Predicted and Observed Water Quality

LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 1.65 max= 9.31
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



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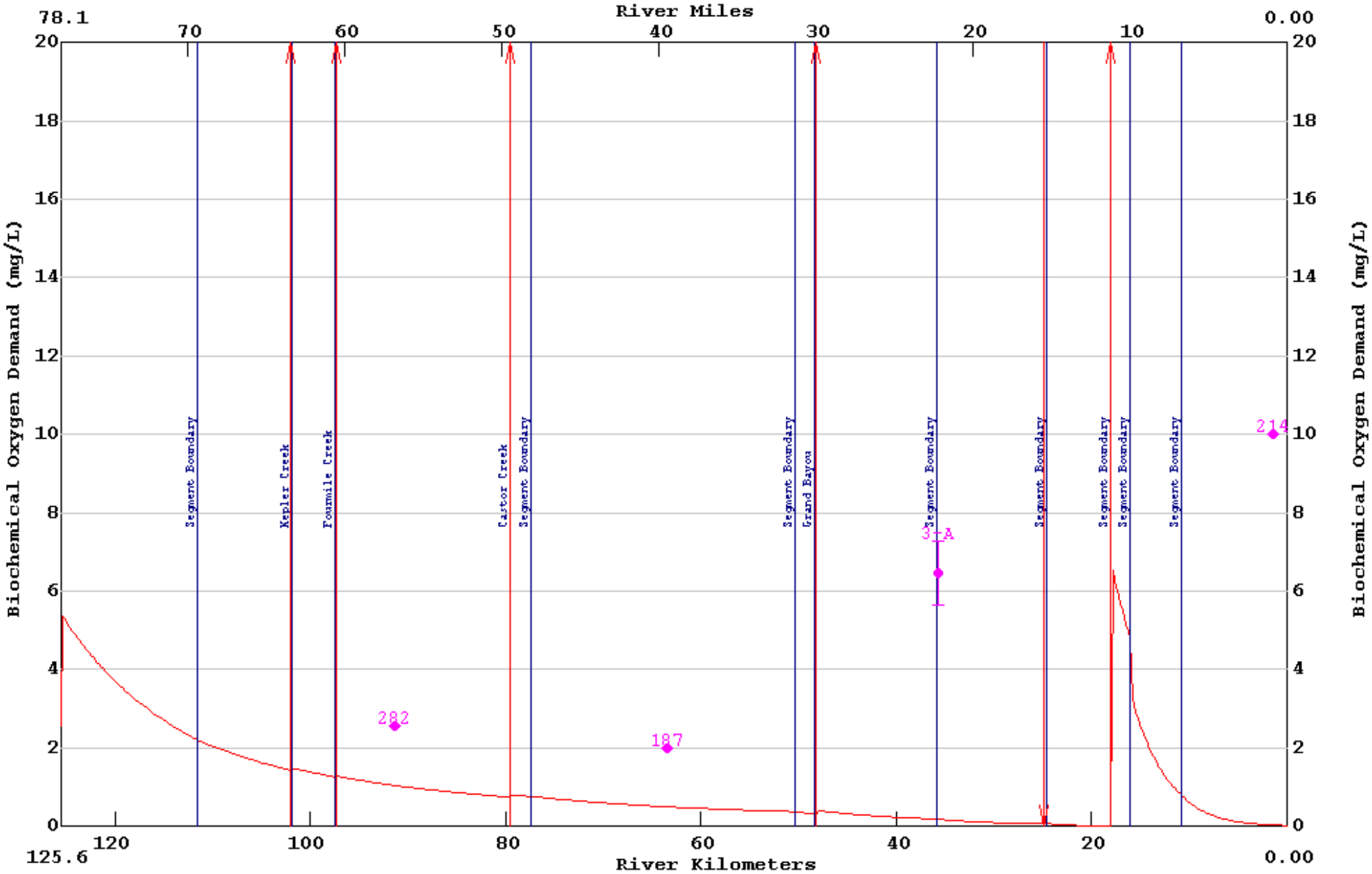
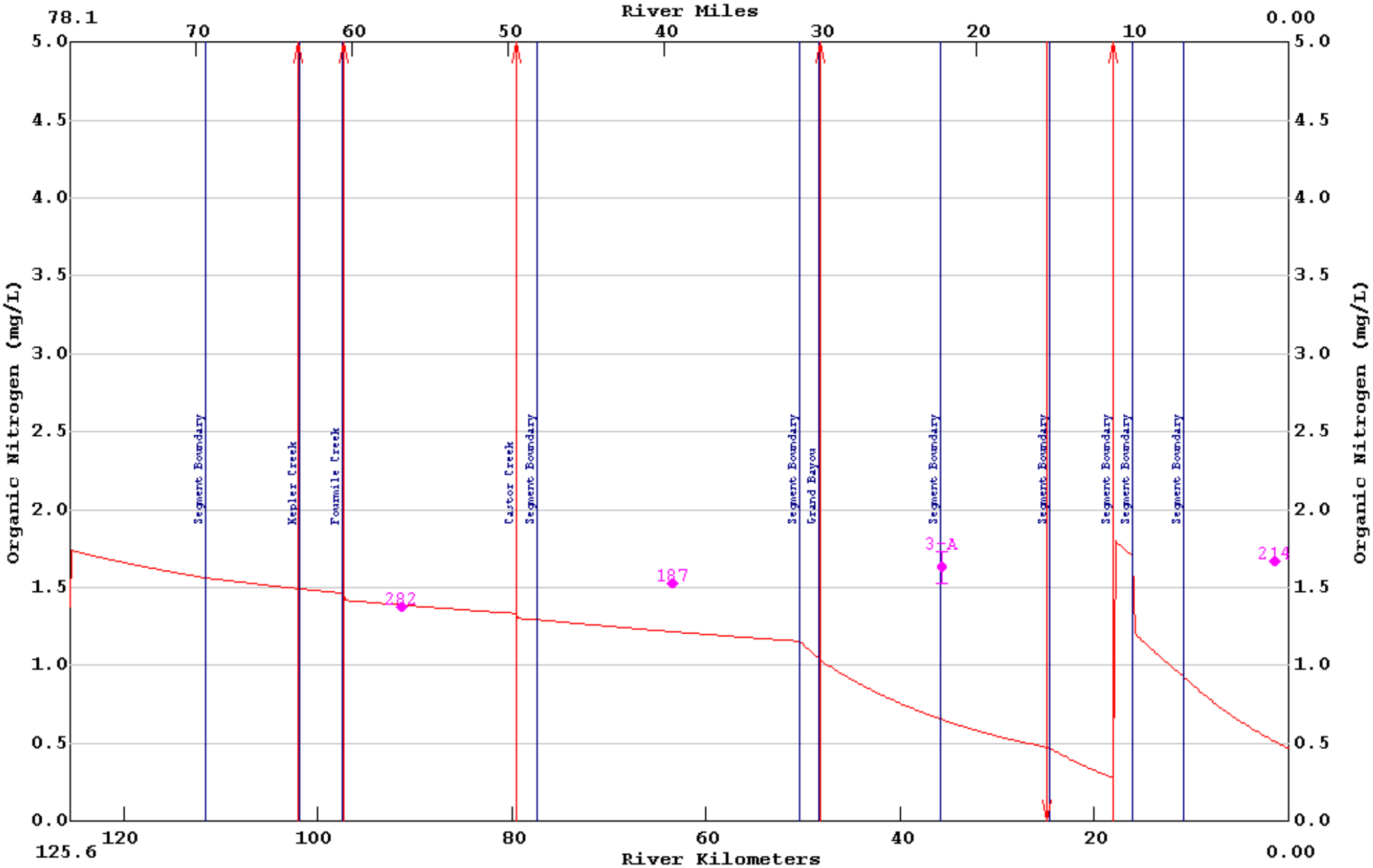
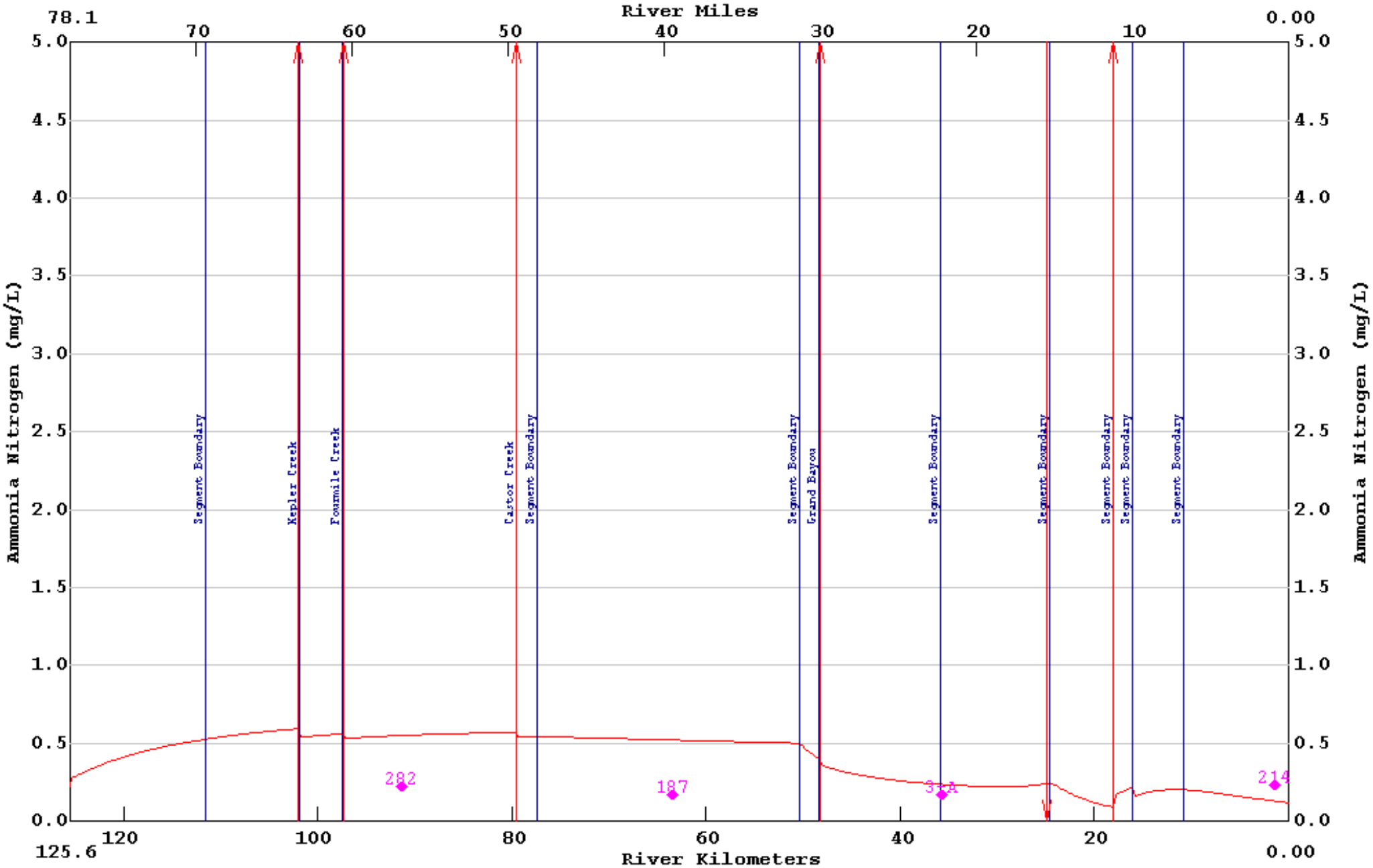
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



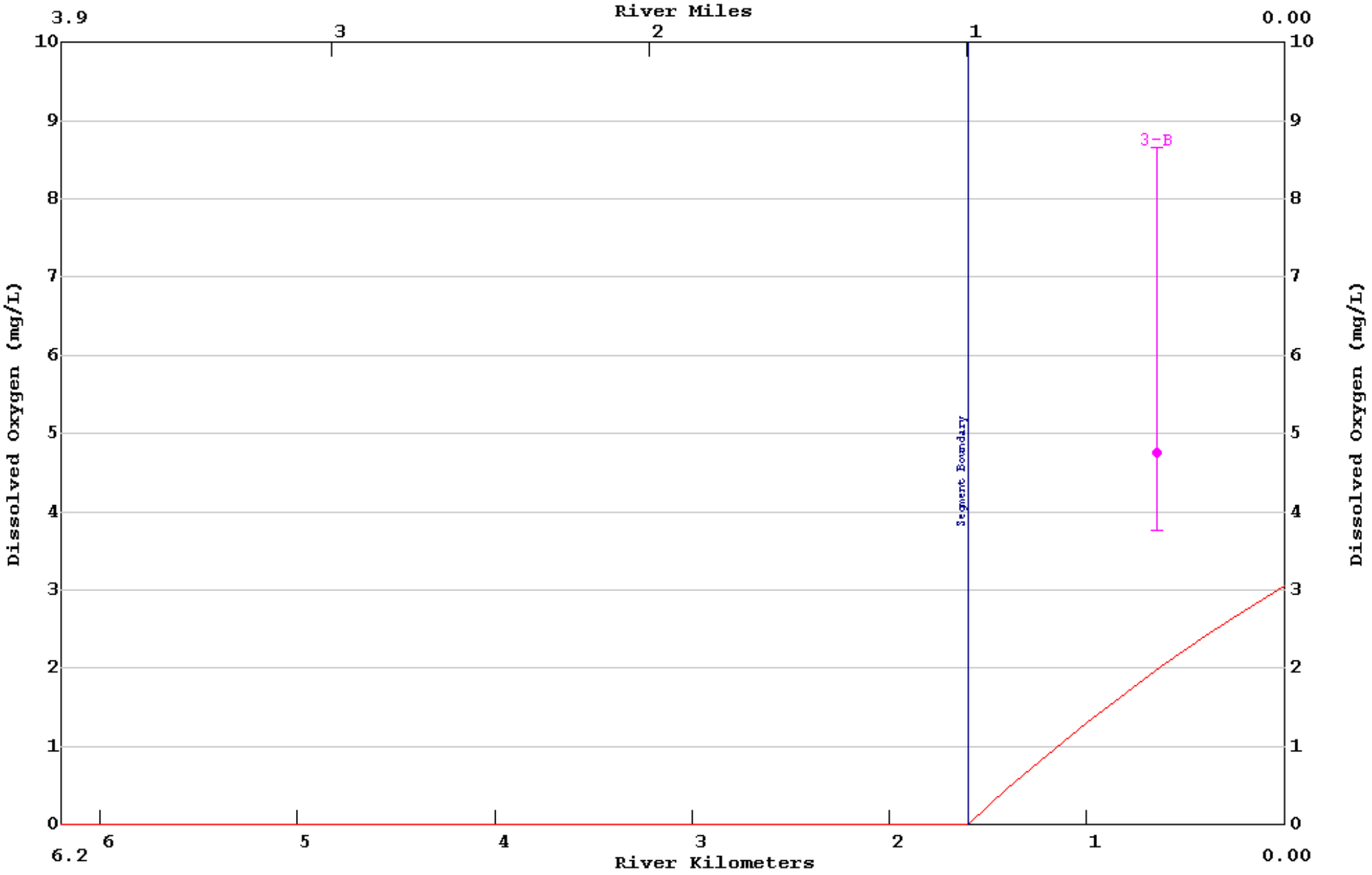
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.28 max= 1.80
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.09 max= 0.59
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.00 max= 3.05
Praire; Bayou Barbeaux



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
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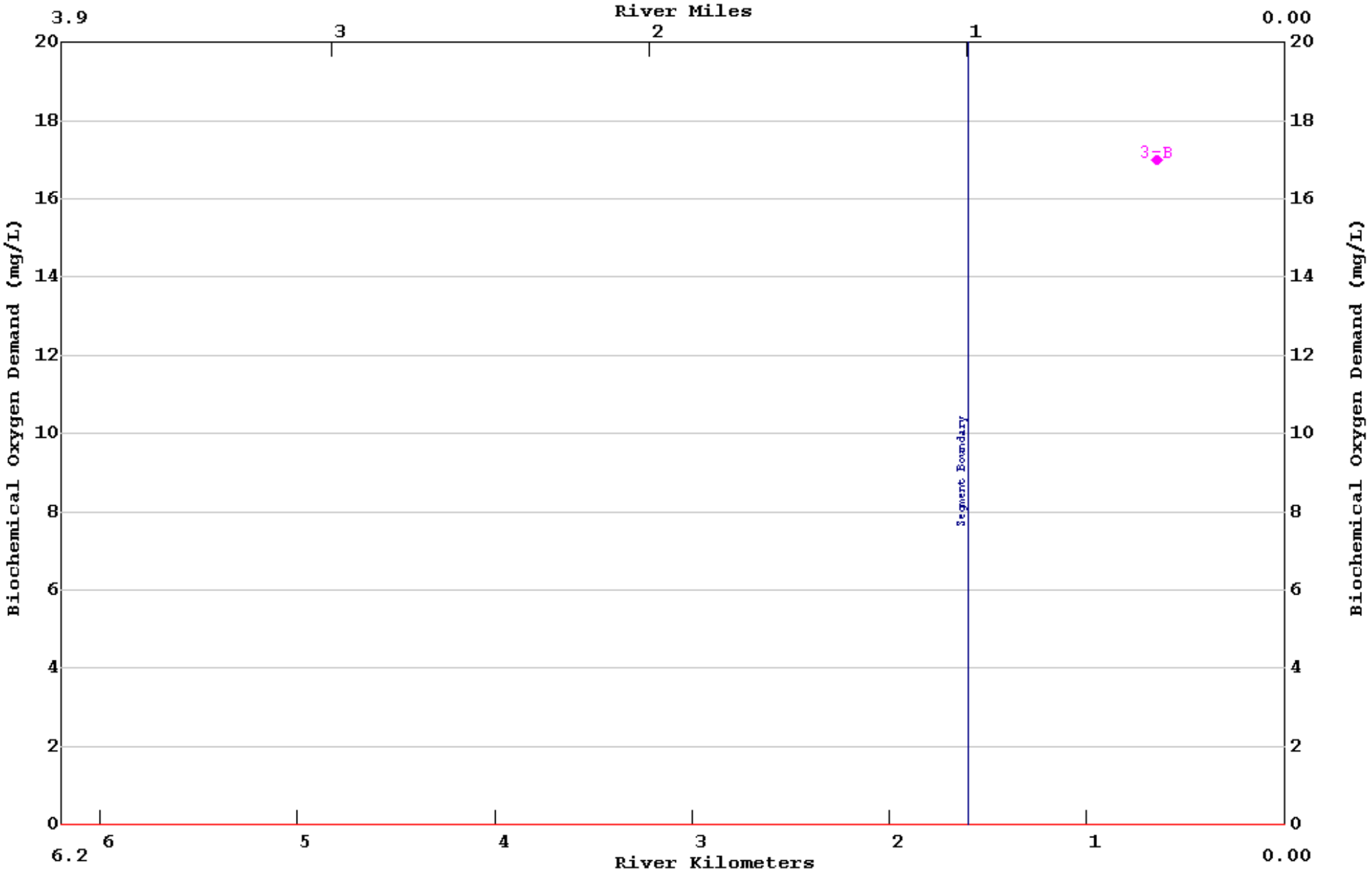
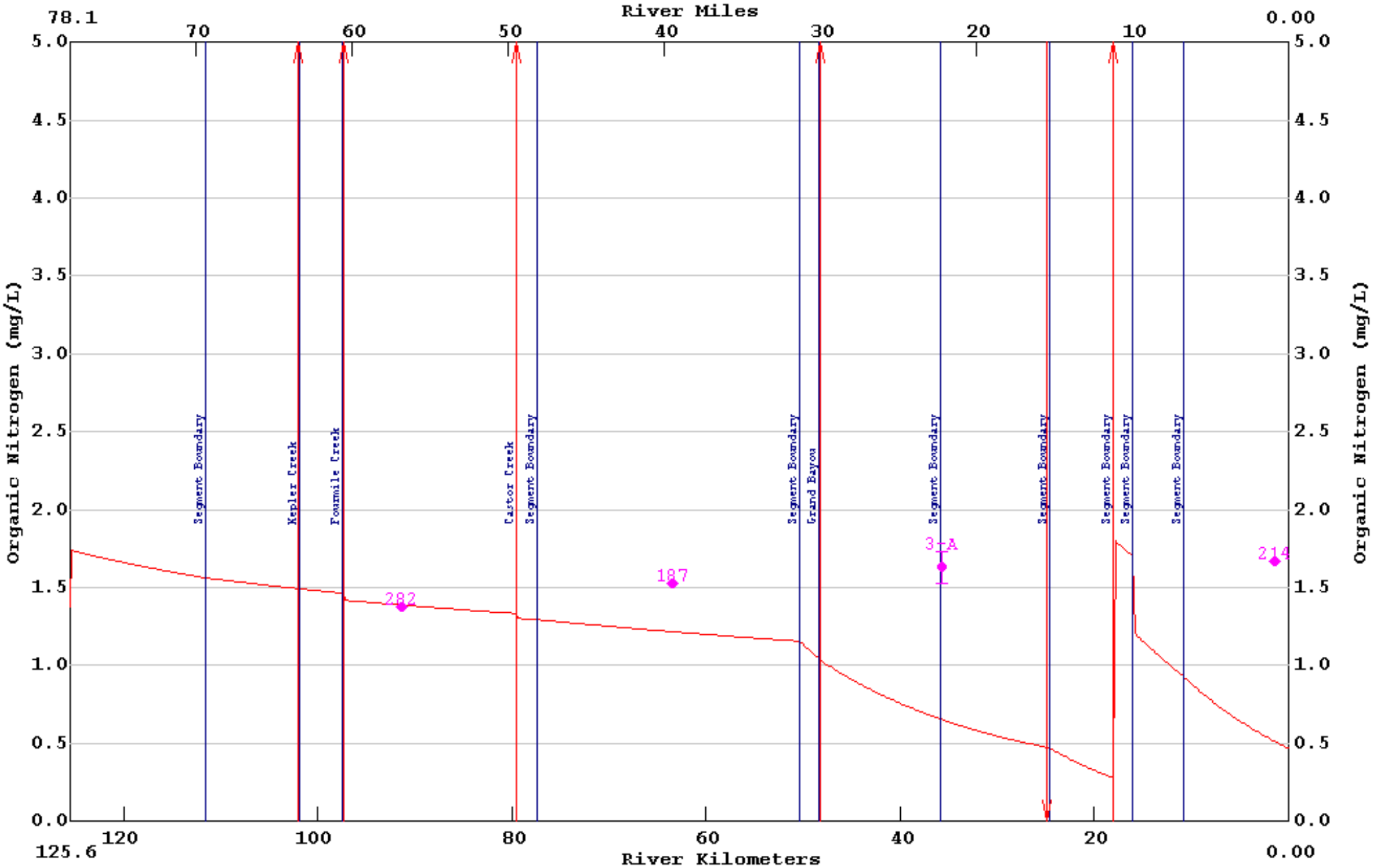
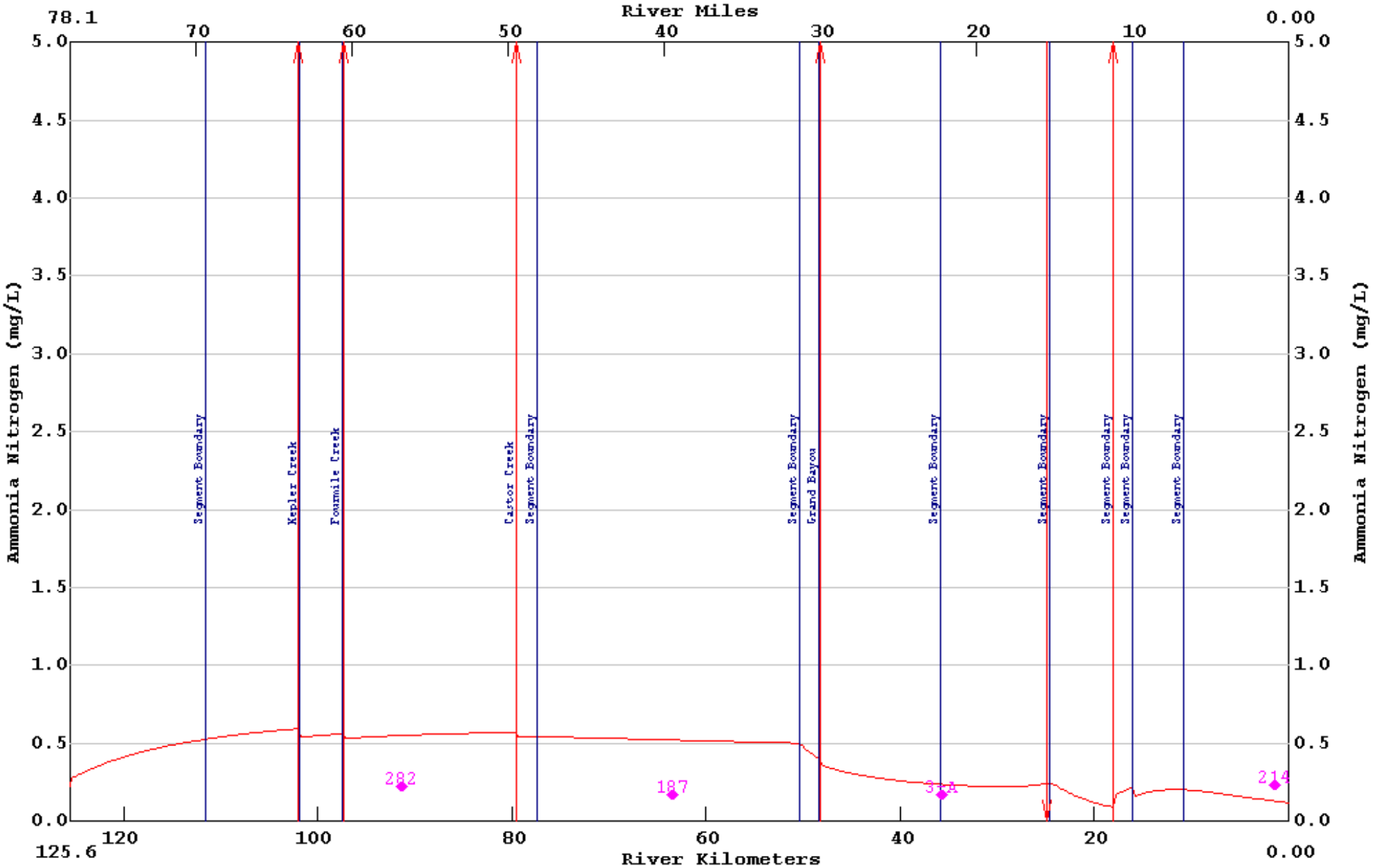
Praire; Bayou Barbeaux



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.28 max= 1.80
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.09 max= 0.59
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



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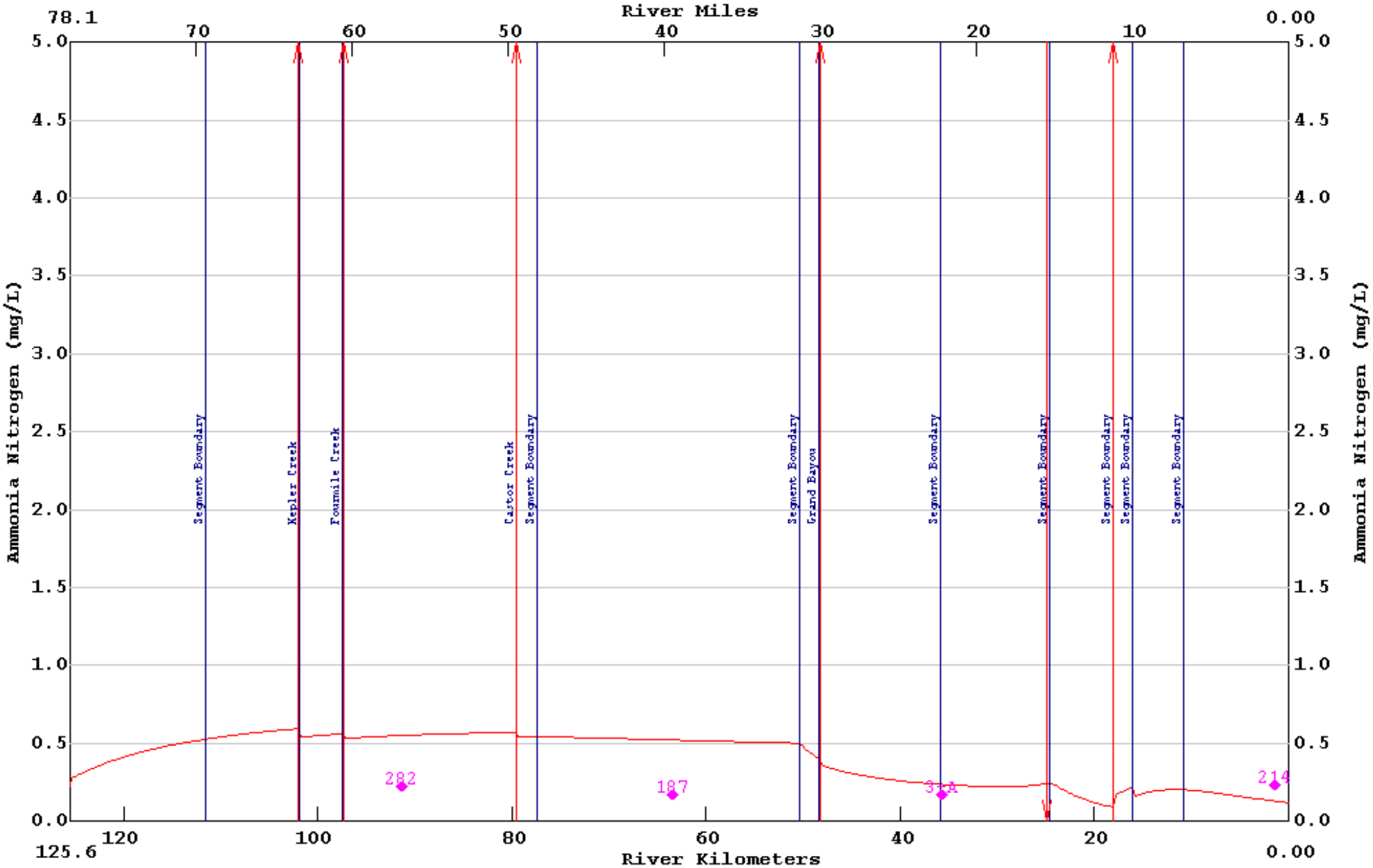
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.09 max= 0.59
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
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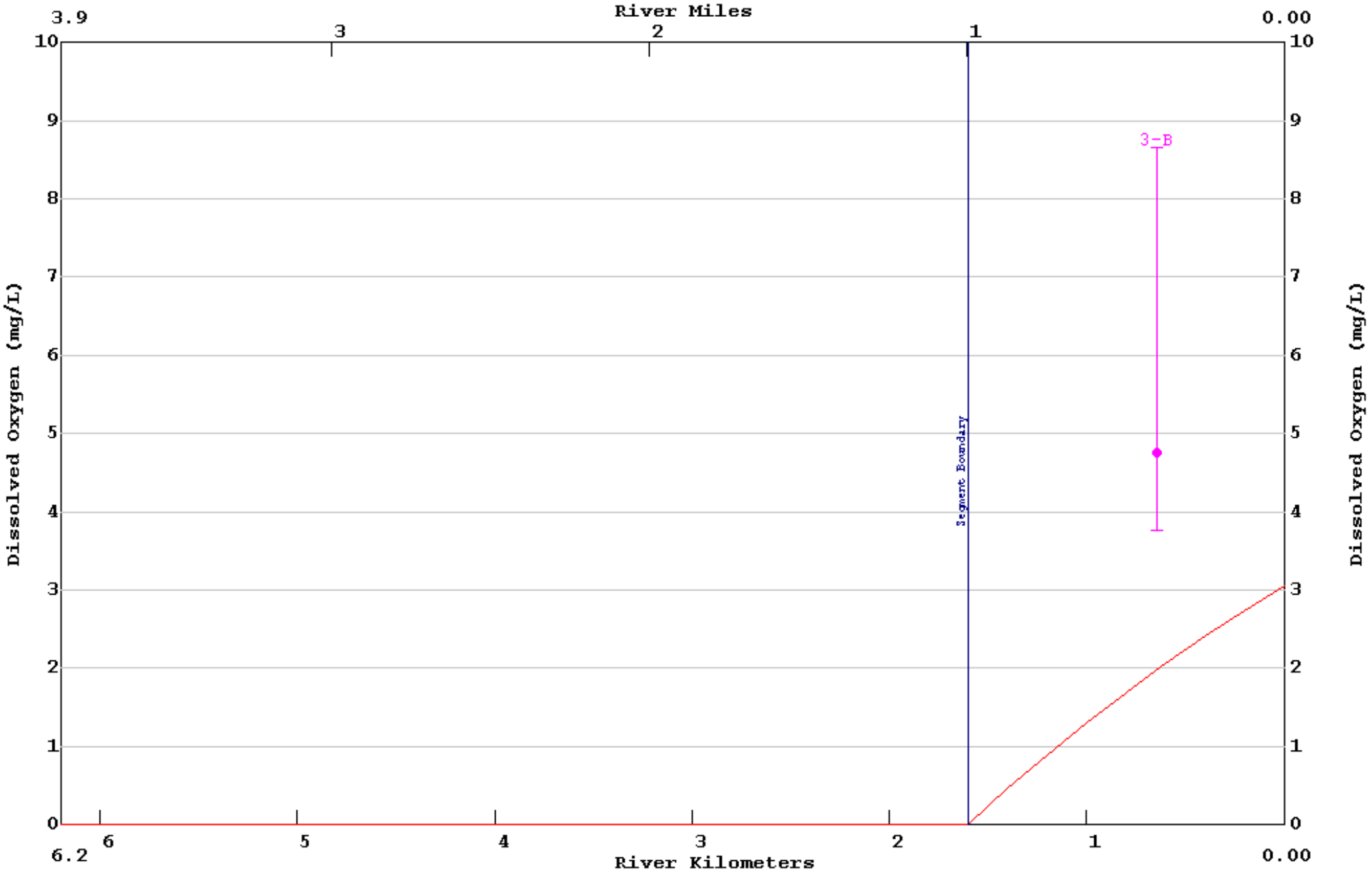
Praire; Bayou Barbeaux



LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
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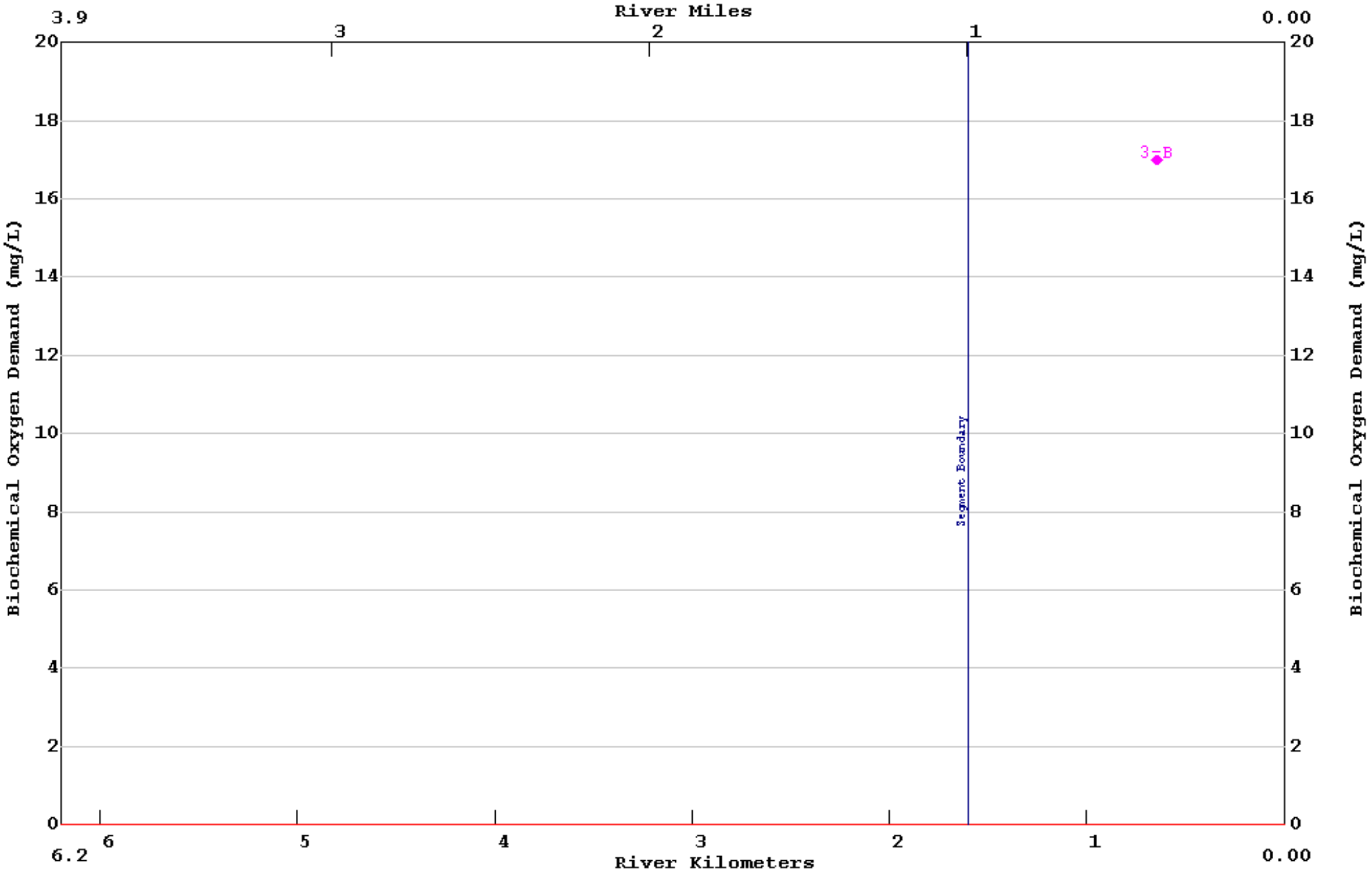
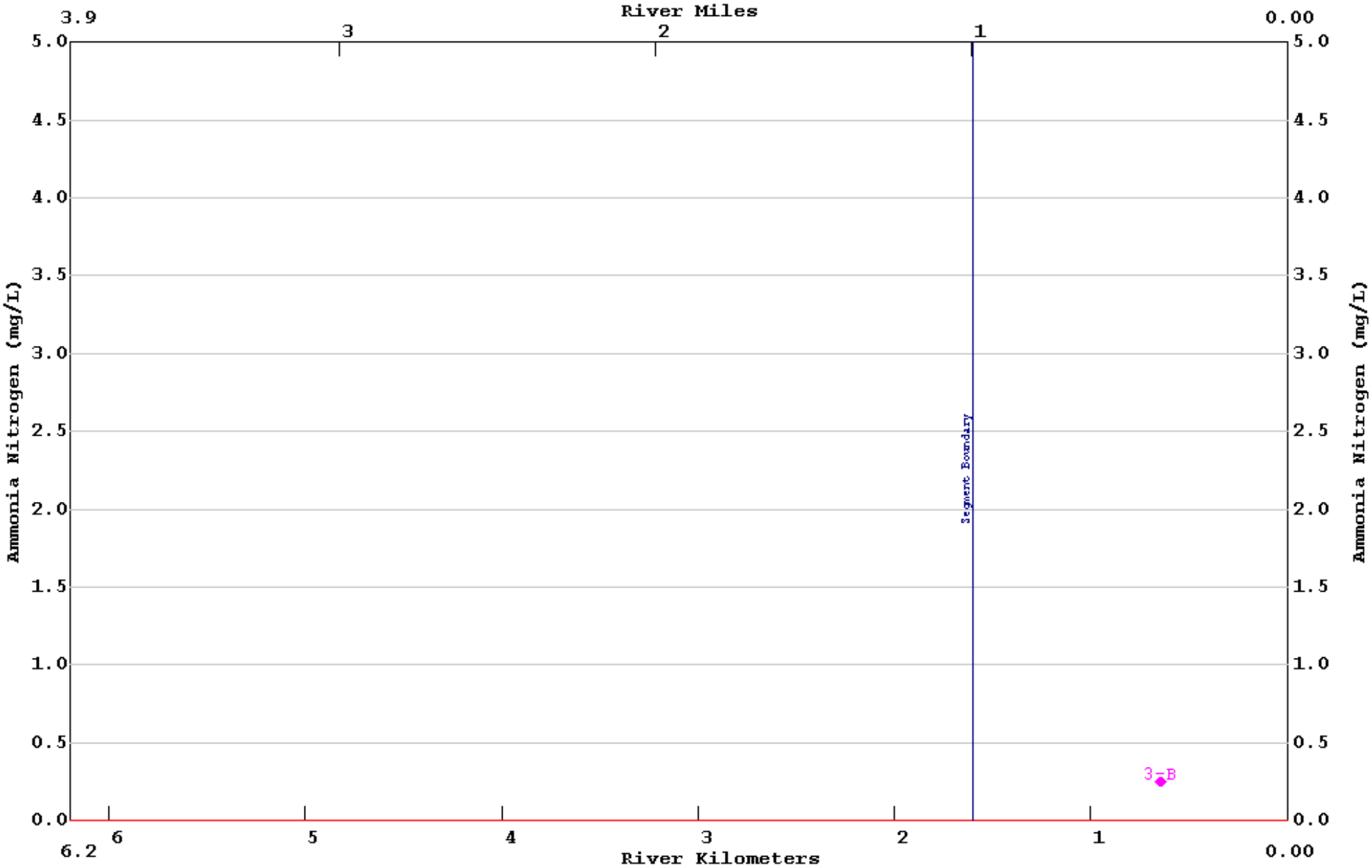
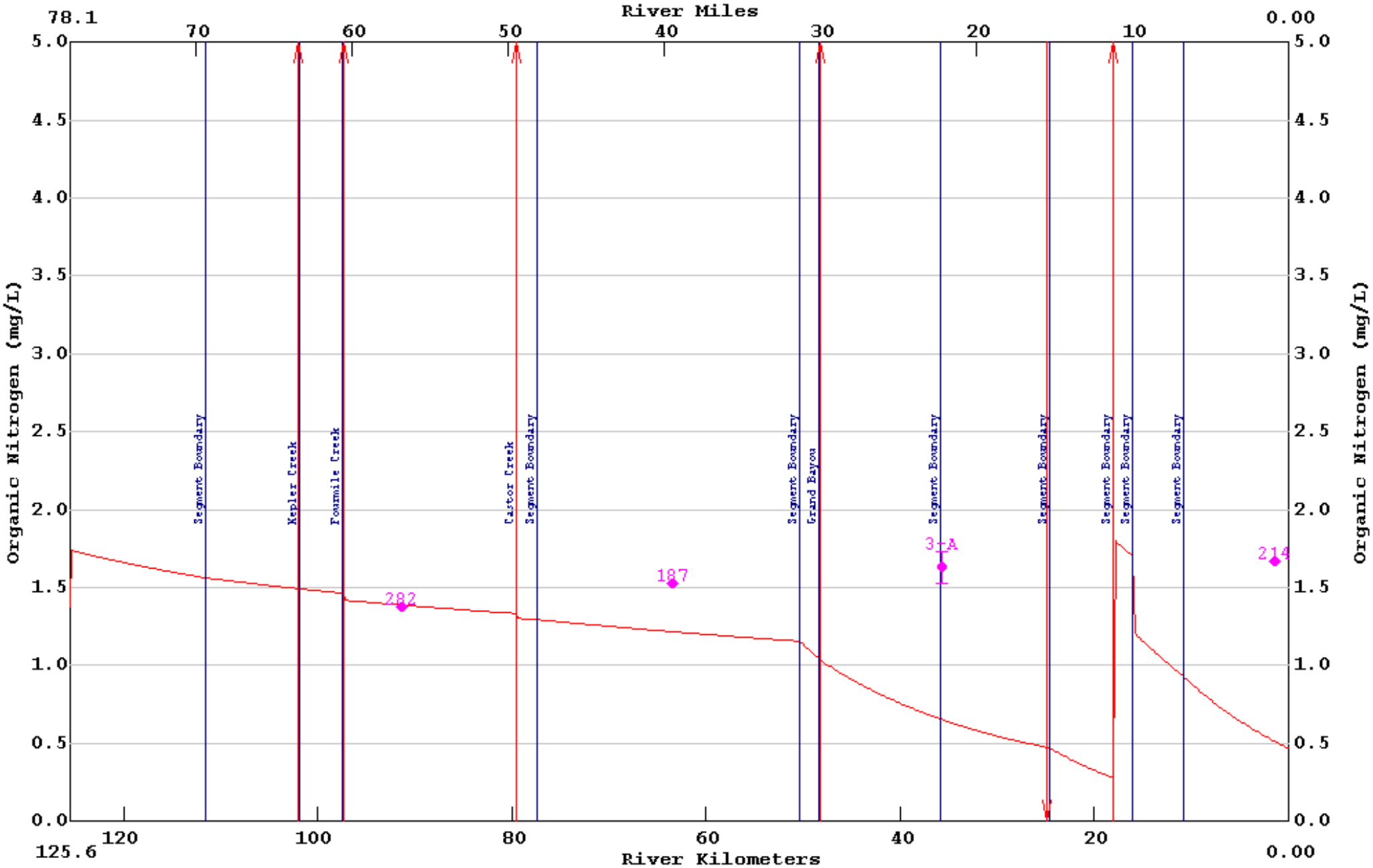
Praire; Bayou Barbeaux



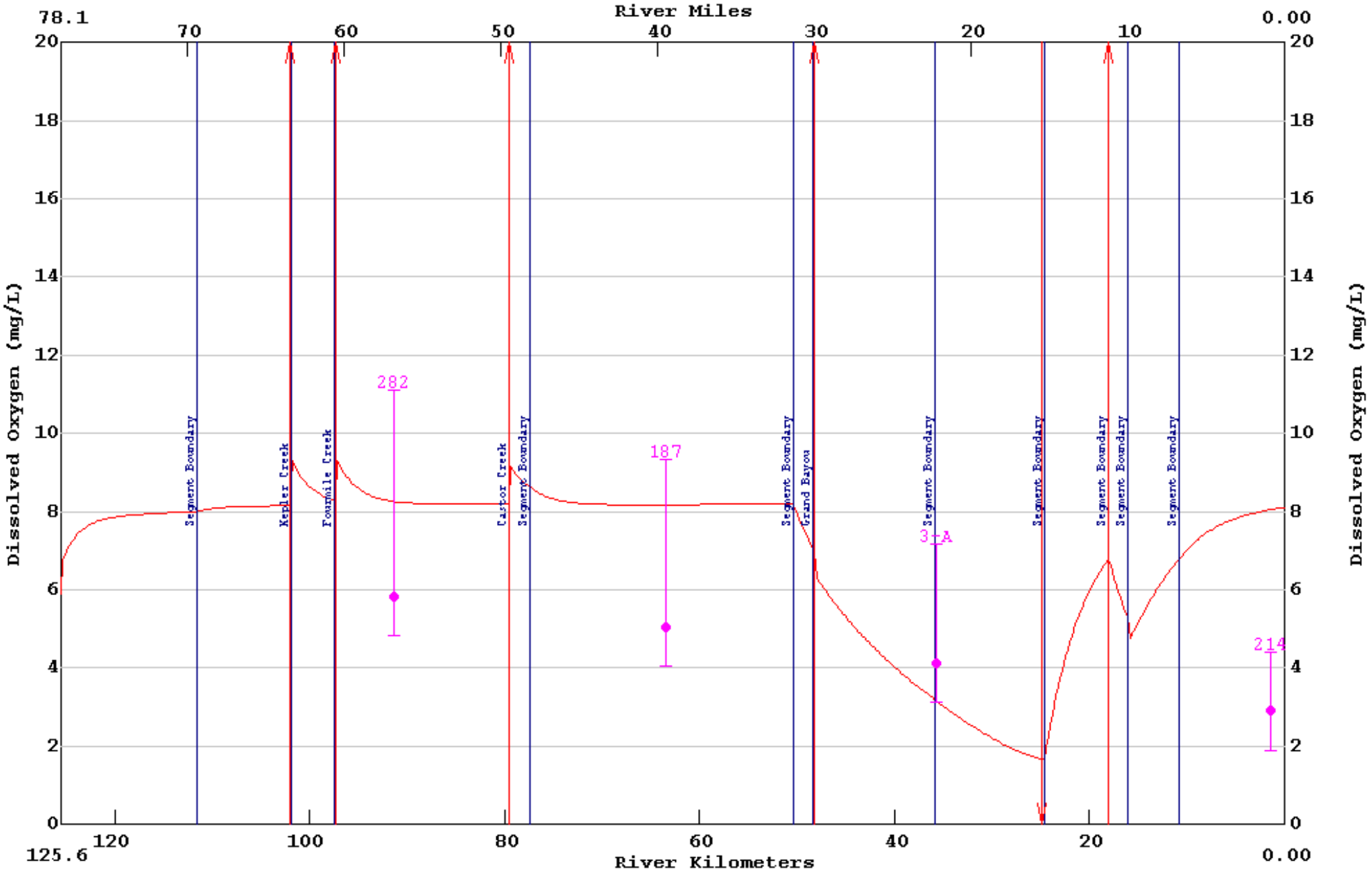
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.00 max= 0.00
Praire; Bayou Barbeaux



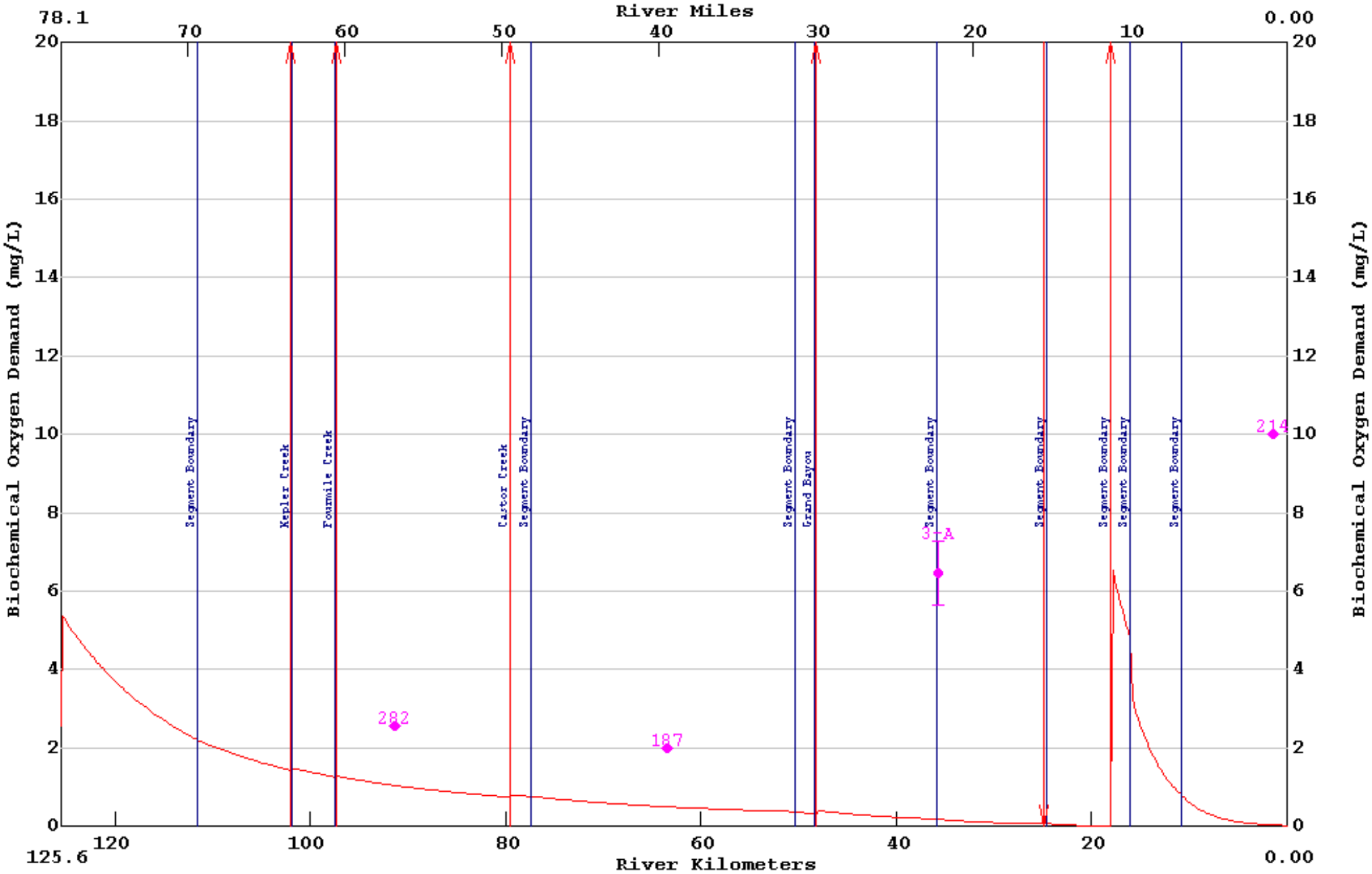
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.28 max= 1.80
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



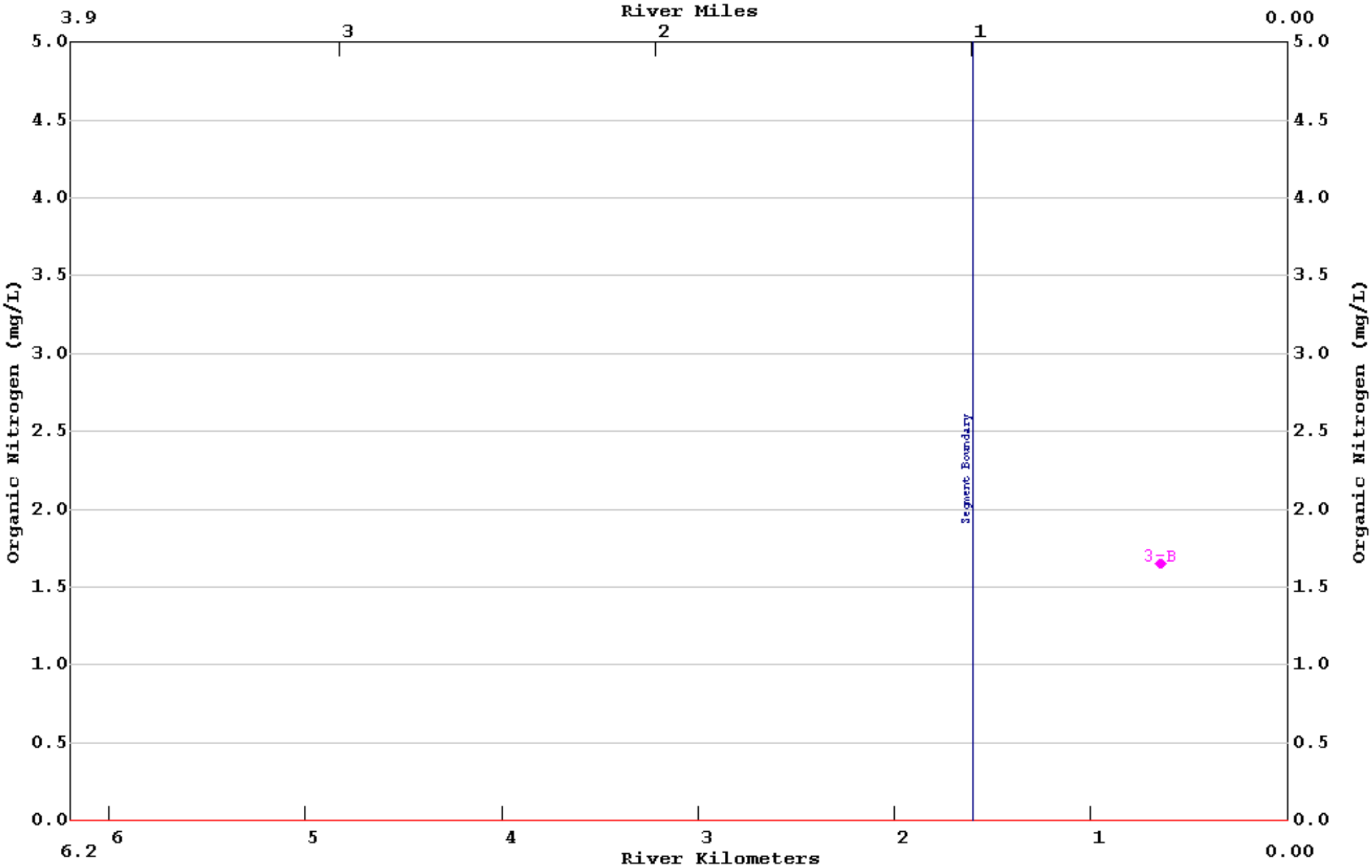
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 1.65 max= 9.31
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



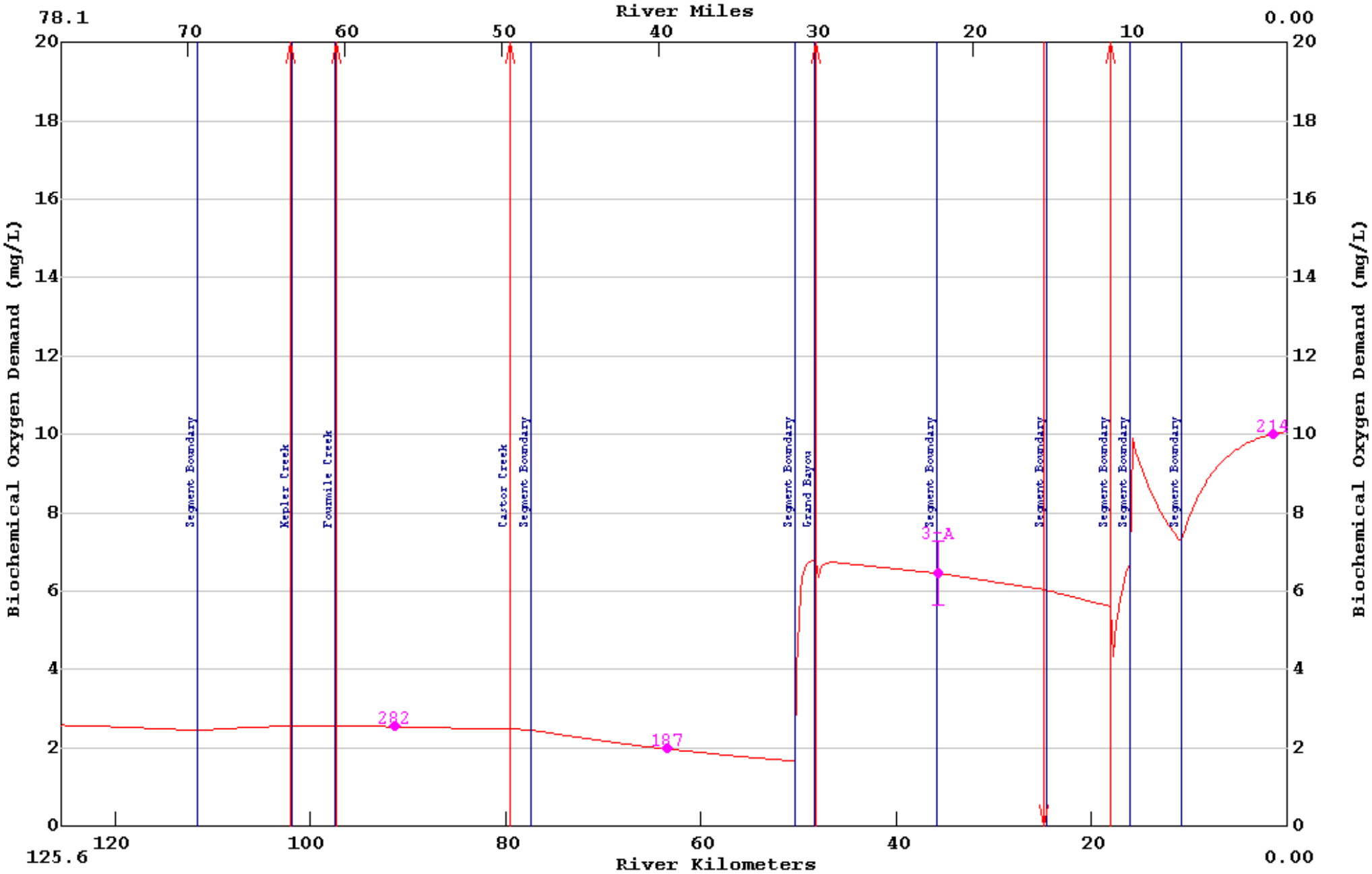
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.01 max= 6.53
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



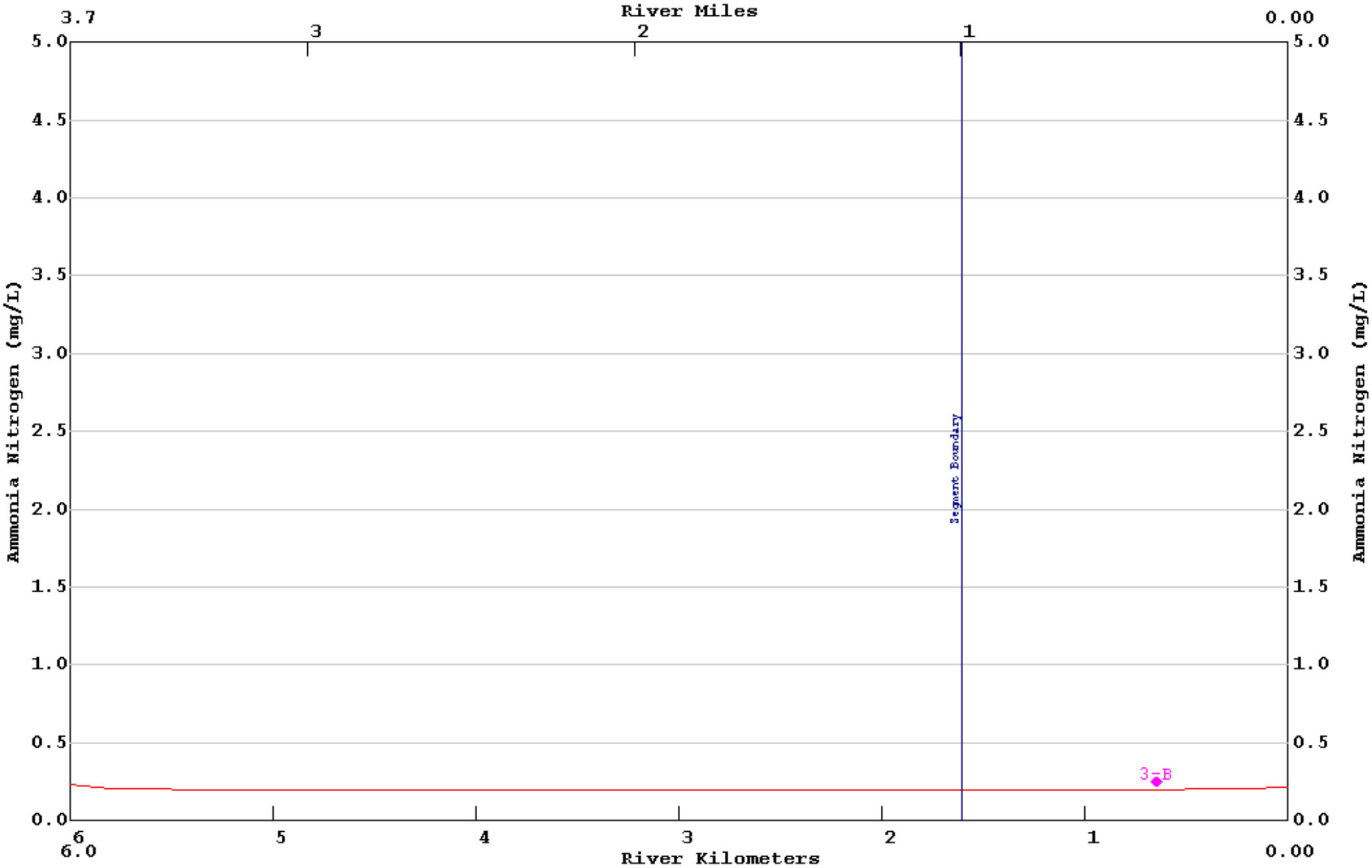
LA-QUAL Version 8.11 Run at 14:37 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calibration.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.00 max= 0.00
Praire; Bayou Barbeaux



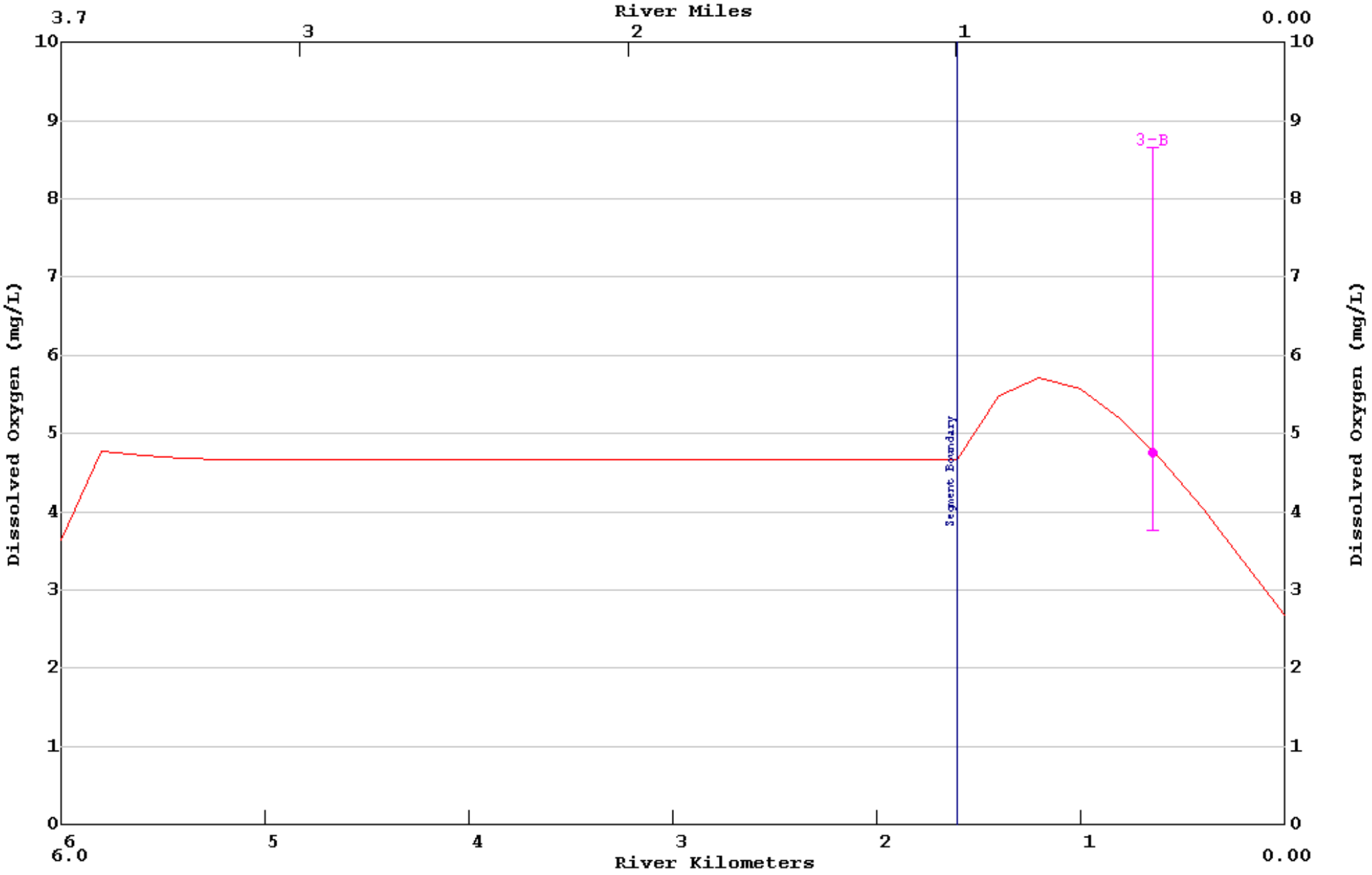
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 1.67 max= 10.08
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



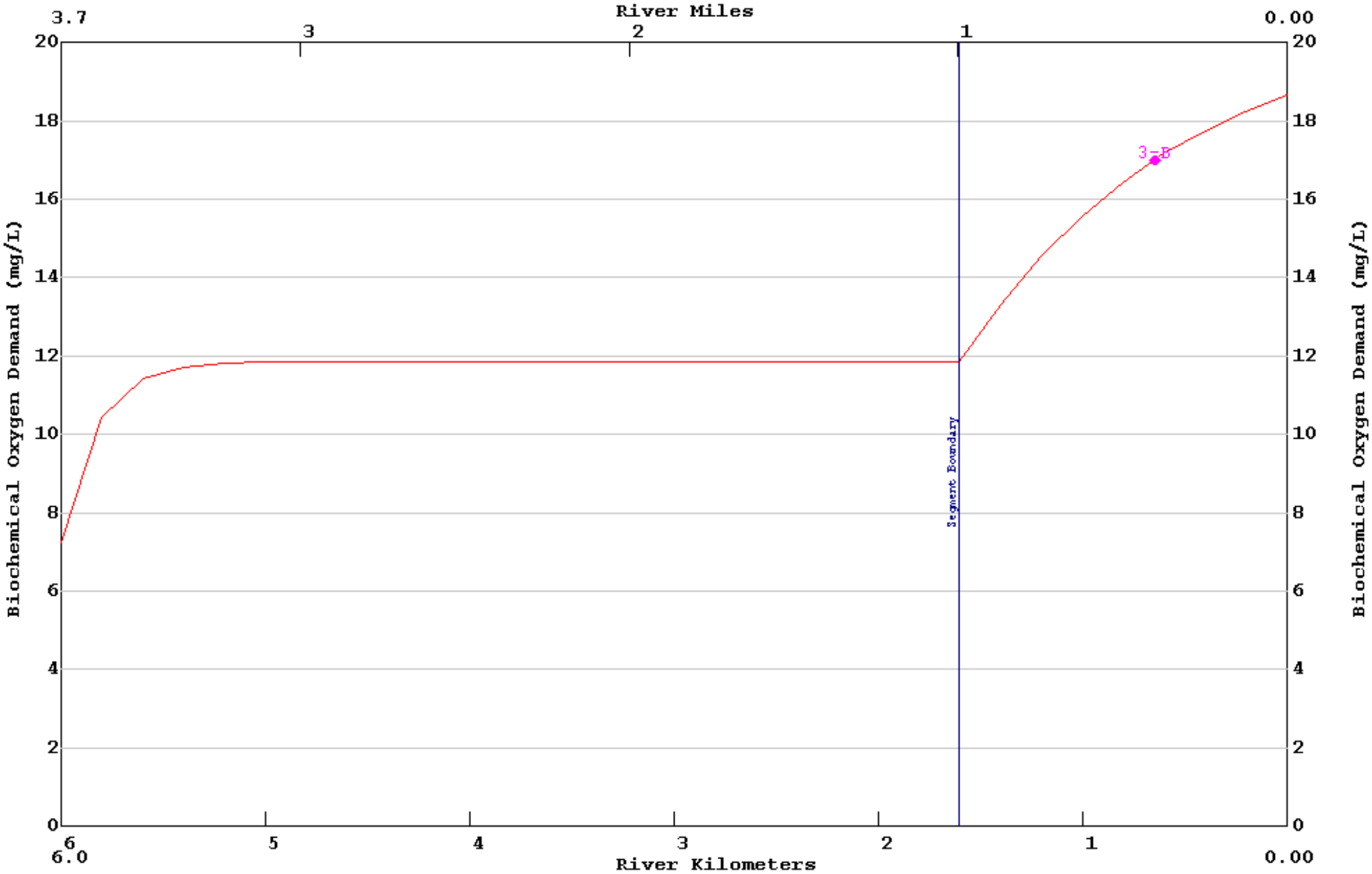
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.20 max= 0.23
Praire; Bayou Barbeaux



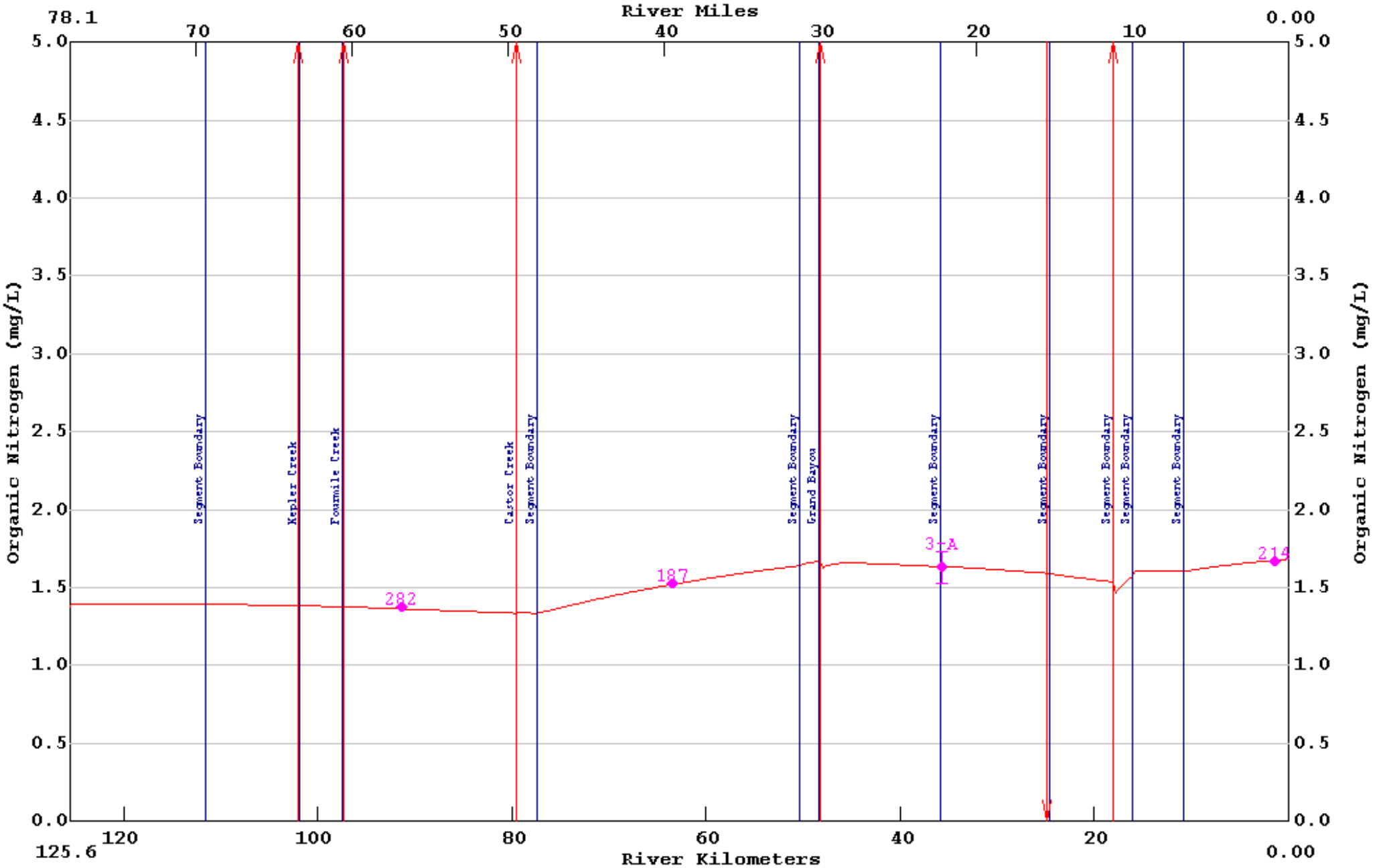
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 2.68 max= 5.71
Praire; Bayou Barbeaux



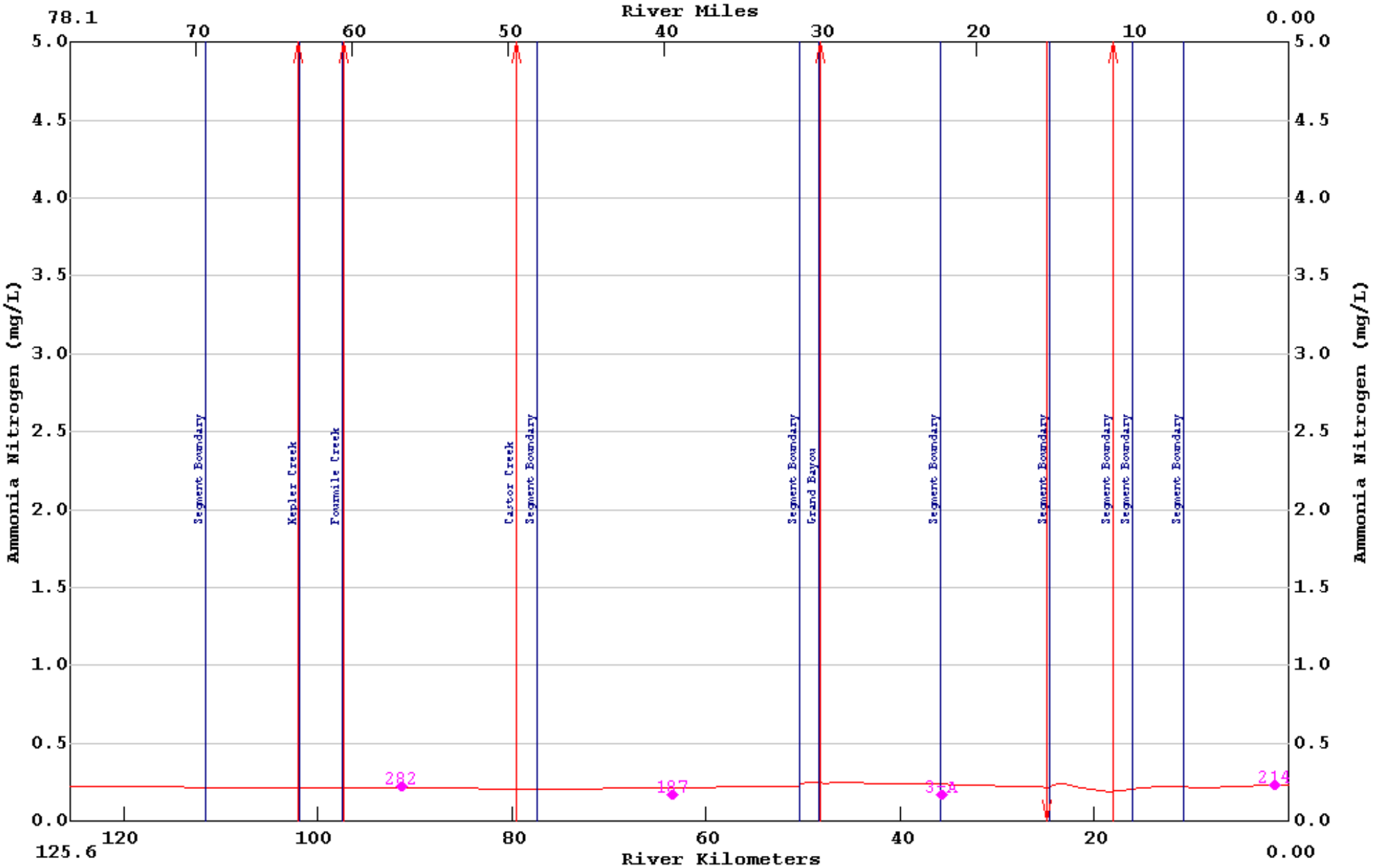
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 7.24 max= 18.66
Praire; Bayou Barbeaux



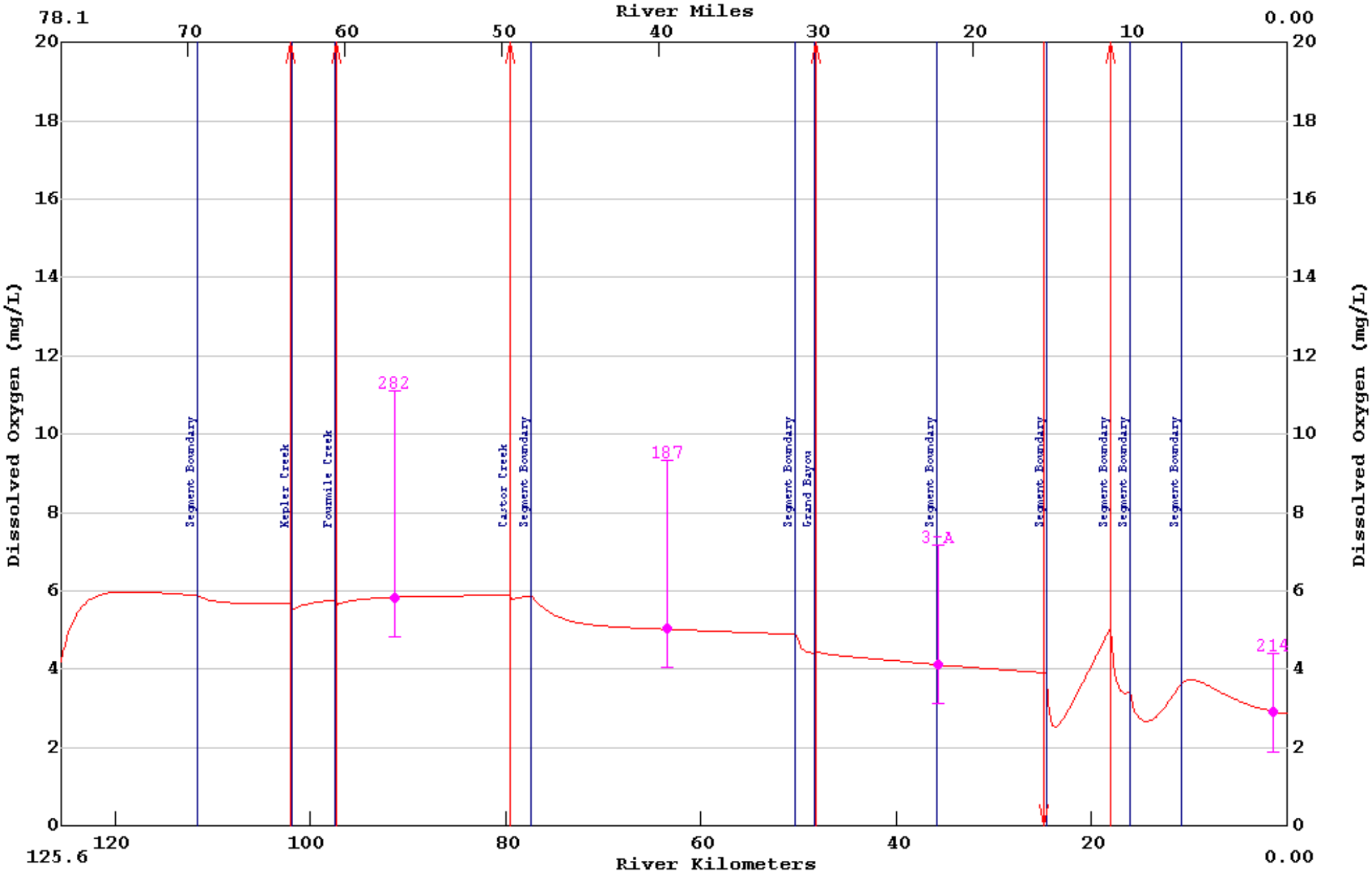
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 1.33 max= 1.68
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



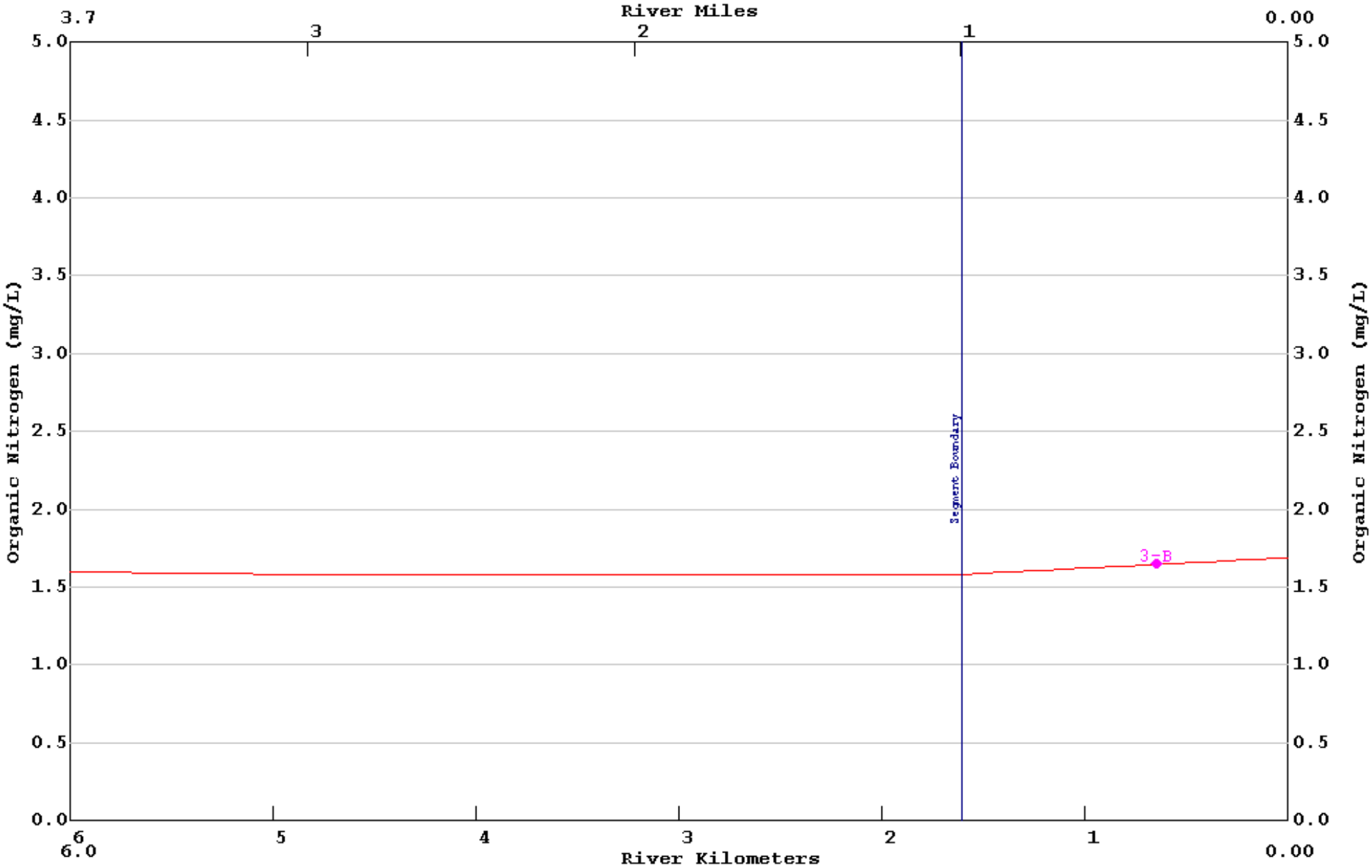
LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 0.19 max= 0.25
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 2.52 max= 5.98
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:18 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake calib-rew.txt
Calibration for FTN intensive survey conditions (9/7/2005) min= 1.58 max= 1.68
Praire; Bayou Barbeaux



APPENDIX I

Printout of Model Output for Calibration

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is D:\Black Lake calib-rew.txt
Output produced at 22:45 on 10/11/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
TITLE02        Calibration for FTN intensive survey conditions (9/7/2005)
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        ALGAE OXYGEN PROD                 =        0.02300 mg O/ug chl a/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

THETA       NH3 DECA       1.07000
ENDATA04
```

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

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  BL  Black Lake Bayou          125.60  TO  111.60  0.2000   14.00    70      1    70
REACH ID    2  BL  Black Lake Bayou          111.60  TO   77.40  0.2000   34.20   171     71   241
REACH ID    3  BL  Black Lake Bayou           77.40  TO   50.40  0.2000   27.00   135    242   376
REACH ID    4  BL  Black Lake                50.40  TO   35.80  0.2000   14.60    73    377   449
REACH ID    5  CL  Clear Lake                35.80  TO   24.60  0.2000   11.20    56    450   505
REACH ID    6  PA  Black Lake Bayou          24.60  TO   18.00  0.2000    6.60    33    506   538
REACH ID    7  BB  Saline Bayou              18.00  TO   16.00  0.2000    2.00    10    539   548
REACH ID    8  BL  Praire                    6.00  TO    1.60  0.2000    4.40    22    549   570
REACH ID    9  SB  Bayou Baubeaux             1.60  TO    0.00  0.2000    1.60     8    571   578
REACH ID   10  SB  Saline Bayou             16.00  TO   10.80  0.2000    5.20    26    579   604
REACH ID   11  SB  Saline Bayou             10.80  TO    0.00  0.2000   10.80    54    605   658
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  BL    11.100     0.120     0.000     1.900     0.450     0.000   0.00000   0.000
HYDR-1      2  BL    11.900     0.120     0.000     1.510     0.450     0.000   0.00000   0.000
HYDR-1      3  BL    13.800     0.120     0.000     1.660     0.450     0.000   0.00000   0.000
HYDR-1      4  BL     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
HYDR-1      5  CL     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
HYDR-1      6  PA     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
HYDR-1      7  BB     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
HYDR-1      8  BL     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
HYDR-1      9  SB     0.000     0.000    10.000     0.000     0.000    10.000   0.00000   0.000
```

```
HYDR-1     10  SB     0.000     0.000    50.560     0.000     0.000     4.570    0.00000  0.000
HYDR-1     11  SB     0.000     0.000    61.520     0.000     0.000     4.570    0.00000  0.000
ENDATA09

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

CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                RANGE      "A"         "B"         "C"         "D"

ENDATA10

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

CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2     PHOS    CHL A    MACRO

INITIAL        1  BL     23.40    0.00    3.88    0.05    0.00    0.00    76.00    0.00
INITIAL        2  BL     24.70    0.00    5.82    0.06    0.00    0.00    20.00    0.00
INITIAL        3  BL     24.90    0.00    5.06    0.10    0.00    0.00    20.00    0.00
INITIAL        4  BL     26.30    0.00    4.59    0.05    0.00    0.00    20.00    0.00
INITIAL        5  CL     27.60    0.00    4.12    0.05    0.00    0.00    20.00    0.00
INITIAL        6  PA     29.10    0.00    4.06    0.05    0.00    0.00    20.00    0.00
INITIAL        7  BB     30.60    0.00    3.99    0.05    0.00    0.00    34.00    0.00
INITIAL        8  BL     29.80    0.00    4.76    0.05    0.00    0.00    75.00    0.00
INITIAL        9  SB     29.80    0.00    4.76    0.05    0.00    0.00    75.00    0.00
INITIAL       10  SB     30.40    0.00    3.55    0.05    0.00    0.00    42.00    0.00
INITIAL       11  SB     30.20    0.00    3.10    0.05    0.00    0.00    50.00    0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                    BOD    ANAER                BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2  BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                     g/m²/d  per day     m/d         per day  per day     m/d         per day

COEFF-1    1  BL  15 LOUISIANA    0.000   0.000   0.000   2.600   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    2  BL  15 LOUISIANA    0.000   0.000   0.000   2.400   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    3  BL  15 LOUISIANA    0.000   0.000   0.000   2.900   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    4  BL  20 K2=a/D       0.800   0.000   0.000   2.200   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    5  CL  20 K2=a/D       0.800   0.000   0.000   1.600   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    6  PA  20 K2=a/D       0.800   0.000   0.000   2.500   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    7  BB  20 K2=a/D       0.800   0.000   0.000   6.500   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    8  BL  20 K2=a/D       0.800   0.000   0.000   6.500   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    9  SB  20 K2=a/D       0.800   0.000   0.000   3.950   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   10  SB  20 K2=a/D       0.800   0.000   0.000   3.500   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   11  SB  20 K2=a/D       0.800   0.000   0.000   4.050   0.060   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  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        2  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        3  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        4  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        5  CL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        6  PA     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        7  BB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        8  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        9  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       10  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       11  SB     0.020    0.000    0.000     0.110    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  BL     0.00000    0.03740    25.00    0.00     0.00     0.00   0.00267   0.00000
INCR-1         2  BL     0.00000    0.09130    25.00    0.00     0.00     0.00   0.00267   0.00000
INCR-1         3  BL     0.00000    0.07200    25.00    0.00     0.00     0.00   0.00267   0.00000
INCR-1         4  BL     0.00000    0.03900    25.00    0.00     0.00     0.00   0.00267   0.00000
INCR-1         5  CL     0.00000    0.02990    25.00    0.00     0.00     0.00   0.00267   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  BL     4.18     2.00     2.00     0.20     0.05     0.00
INCR-2         2  BL     4.18     2.00     2.00     0.20     0.05     0.00
INCR-2         3  BL     4.18     2.00     2.00     0.20     0.05     0.00
INCR-2         4  BL     4.18     2.00     2.00     0.20     0.05     0.00
INCR-2         5  CL     4.18     2.00     2.00     0.20     0.05     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   BL      20.00      1.50      0.00      0.00      0.00      0.00
NONPOINT        2   BL      60.00      2.20      0.00      0.00      0.00      0.00
NONPOINT        3   BL      30.00     20.00      0.00      0.00      0.00      0.00
NONPOINT        4   BL     850.00     55.00      0.00      0.00      0.00      0.00
NONPOINT        5   CL     750.00     40.00      0.00      0.00      0.00      0.00
NONPOINT        6   PA     500.00     25.00      0.00      0.00      0.00      0.00
NONPOINT        7   BB     300.00     20.00      0.00      0.00      0.00      0.00
NONPOINT        8   BL     720.00     18.00      0.00      0.00      0.00      0.00
NONPOINT        9   SB     520.00      7.00      0.00      0.00      0.00      0.00
NONPOINT       10   SB    1100.00     45.00      0.00      0.00      0.00      0.00
NONPOINT       11   SB    2900.00    125.00      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     Black Lake Bayou       0   0.08300    2.931   23.40     0.00     0.000     0.000   0.00
HDWTR-1       549     Praire                 0   0.30700   10.840   29.10     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     Black Lake Bayou          4.20      2.56      1.38      0.22      0.00      0.00
HDWTR-2       549     Praire                    3.63      7.24      1.60      0.23      0.00      0.00
ENDATA21

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

CARD TYPE     ELEMENT   NAME                     PHOS     CHL A      COLI       NCM
                                              mg/L      mg/L      mg/L      mg/L

HDWTR-3         1     Black Lake Bayou          0.00     20.00      0.00      0.00
HDWTR-3       549     Praire                    0.00     20.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$
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CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
          ELEMENT  ELEMENT     KILOM

JUNCTION        579     548      16.00     Clear Lake and Praire
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       1     125.60  Letherman Creek       0.08300    2.93079    1.894   23.30     0.00     0.000     0.000
WSTLD-1     119      102.00  Kepler Creek         0.03500    1.23588    0.799   29.70     0.00     0.000     0.000
WSTLD-1     142       97.40  FourMile Creek        0.02400    0.84746    0.548   24.70     0.00     0.000     0.000
WSTLD-1     231       79.60  Castor Creek         0.02700    0.95339    0.616   24.70     0.00     0.000     0.000
WSTLD-1     388       48.20  Grand Bayou           0.09200    3.24859    2.100   24.40     0.00     0.000     0.000
WSTLD-1     505       24.80  Clear Lake out       -0.30700  -10.84040   -7.007   29.10     0.00     0.000     0.000
WSTLD-1     539       18.00  Saline Lake          0.47540   16.78672   10.851   30.60     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         1     Letherman Creek           4.20      2.60      0.00      1.40      0.22      0.00      0.05      0.00
WSTLD-2       119     Kepler Creek              4.20      2.60      0.00      1.40      0.22      0.00      0.05      0.00
WSTLD-2       142     FourMile Creek            4.20      2.60      0.00      1.40      0.22      0.00      0.05      0.00
WSTLD-2       231     Castor Creek              4.20      2.60      0.00      1.40      0.22      0.00      0.05      0.00
WSTLD-2       388     Grand Bayou               4.20      2.60      0.00      1.40      0.22      0.00      0.05      0.00
WSTLD-2       505     Clear Lake out            3.63      7.24      0.00      1.60      0.23      0.00      0.05      0.00
WSTLD-2       539     Saline Lake               4.20      2.60      0.00      1.40      0.22      0.00      0.05      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

WSTLD-3         1     Letherman Creek           0.00     20.00      0.00      0.00
WSTLD-3       119     Kepler Creek              0.00     20.00      0.00      0.00
WSTLD-3       142     FourMile Creek            0.00     20.00      0.00      0.00
WSTLD-3       231     Castor Creek              0.00     20.00      0.00      0.00
WSTLD-3       388     Grand Bayou               0.00     20.00      0.00      0.00
WSTLD-3       505     Clear Lake out            0.00     20.00      0.00      0.00
WSTLD-3       539     Saline Lake               0.00     20.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                 CONCENTRATION
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ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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


NUMBER OF PLOTS =  2
NUMBER OF REACHES IN PLOT 1 =   9
PLOT RCH  1  2  3  4  5  6  7 10 11
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  8  9
ENDATA30

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


OVERLAY 1 Main.OVL                    :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL                  :Praire; Bayou Barbeaux
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 Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
    mg/L                                    Calibration for FTN intensive survey conditions (9/7/2005)


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

BL	1	1	4.50	4.76	4.99	5.19	5.37	5.52	5.65	5.76	5.86	5.94
BL	1	11	6.02	6.08	6.13	6.17	6.21	6.24	6.26	6.28	6.29	6.30
BL	1	21	6.31	6.31	6.31	6.31	6.31	6.30	6.30	6.29	6.28	6.27
BL	1	31	6.26	6.24	6.23	6.21	6.20	6.18	6.17	6.15	6.13	6.12
BL	1	41	6.10	6.08	6.06	6.04	6.02	6.00	5.98	5.96	5.94	5.92
BL	1	51	5.90	5.88	5.86	5.84	5.82	5.80	5.78	5.76	5.74	5.72
BL	1	61	5.70	5.68	5.66	5.63	5.61	5.59	5.57	5.55	5.53	5.51
BL	2	71	5.53	5.54	5.56	5.57	5.58	5.59	5.60	5.61	5.62	5.63
BL	2	81	5.63	5.64	5.64	5.65	5.65	5.66	5.66	5.66	5.67	5.67
BL	2	91	5.67	5.67	5.67	5.68	5.68	5.68	5.68	5.68	5.68	5.69
BL	2	101	5.69	5.69	5.69	5.69	5.69	5.69	5.69	5.69	5.70	5.70
BL	2	111	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.53	5.56
BL	2	121	5.58	5.60	5.62	5.63	5.65	5.66	5.68	5.69	5.70	5.71
BL	2	131	5.71	5.72	5.73	5.74	5.74	5.75	5.75	5.76	5.76	5.76
BL	2	141	5.77	5.66	5.68	5.69	5.71	5.72	5.73	5.74	5.75	5.76
BL	2	151	5.77	5.77	5.78	5.79	5.79	5.80	5.80	5.81	5.81	5.81
BL	2	161	5.82	5.82	5.82	5.83	5.83	5.83	5.83	5.84	5.84	5.84
BL	2	171	5.84	5.84	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85
BL	2	181	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86
BL	2	191	5.86	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87
BL	2	201	5.87	5.87	5.87	5.87	5.87	5.88	5.88	5.88	5.88	5.88
BL	2	211	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88
BL	2	221	5.88	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89
BL	2	231	5.78	5.79	5.81	5.82	5.83	5.83	5.84	5.85	5.86	5.86
BL	2	241	5.87									
BL	3	242	5.81	5.76	5.71	5.66	5.62	5.58	5.55	5.51	5.48	5.46
BL	3	252	5.43	5.41	5.38	5.36	5.35	5.33	5.31	5.30	5.28	5.27
BL	3	262	5.26	5.25	5.24	5.23	5.22	5.21	5.20	5.20	5.19	5.18
BL	3	272	5.18	5.17	5.17	5.16	5.16	5.15	5.15	5.14	5.14	5.14
BL	3	282	5.13	5.13	5.13	5.12	5.12	5.12	5.11	5.11	5.11	5.11
BL	3	292	5.10	5.10	5.10	5.10	5.09	5.09	5.09	5.09	5.09	5.08
BL	3	302	5.08	5.08	5.08	5.07	5.07	5.07	5.07	5.07	5.06	5.06
BL	3	312	5.06	5.06	5.06	5.05	5.05	5.05	5.05	5.05	5.04	5.04
BL	3	322	5.04	5.04	5.04	5.04	5.03	5.03	5.03	5.03	5.03	5.02
BL	3	332	5.02	5.02	5.02	5.02	5.01	5.01	5.01	5.01	5.01	5.00
BL	3	342	5.00	5.00	5.00	5.00	5.00	4.99	4.99	4.99	4.99	4.99
BL	3	352	4.98	4.98	4.98	4.98	4.98	4.97	4.97	4.97	4.97	4.97
BL	3	362	4.96	4.96	4.96	4.96	4.96	4.95	4.95	4.95	4.95	4.95
BL	3	372	4.94	4.94	4.94	4.94	4.94					
BL	4	377	5.07	5.18	5.28	5.37	5.45	5.51	5.57	5.61	5.65	5.68
BL	4	387	5.70	5.48	5.50	5.52	5.54	5.55	5.55	5.56	5.56	5.55
BL	4	397	5.55	5.54	5.53	5.51	5.50	5.48	5.46	5.44	5.42	5.39
BL	4	407	5.37	5.34	5.31	5.29	5.26	5.23	5.20	5.17	5.14	5.10
BL	4	417	5.07	5.04	5.01	4.97	4.94	4.91	4.88	4.84	4.81	4.78
BL	4	427	4.75	4.71	4.68	4.65	4.62	4.59	4.56	4.53	4.50	4.47
BL	4	437	4.44	4.41	4.38	4.35	4.32	4.29	4.27	4.24	4.21	4.19
BL	4	447	4.16	4.13	4.11							
CL	5	450	4.12	4.13	4.14	4.14	4.15	4.15	4.15	4.15	4.15	4.14
CL	5	460	4.14	4.13	4.13	4.12	4.11	4.10	4.09	4.09	4.07	4.06
CL	5	470	4.05	4.04	4.03	4.02	4.01	3.99	3.98	3.97	3.95	3.94
CL	5	480	3.93	3.92	3.90	3.89	3.88	3.86	3.85	3.84	3.82	3.81

CL	5	490	3.80	3.79	3.77	3.76	3.75	3.74	3.72	3.71	3.70	3.69
CL	5	500	3.68	3.67	3.66	3.65	3.63	3.62				
PA	6	506	3.50	3.39	3.29	3.20	3.13	3.07	3.02	2.98	2.95	2.93
PA	6	516	2.92	2.91	2.92	2.93	2.95	2.98	3.02	3.06	3.11	3.16
PA	6	526	3.22	3.28	3.35	3.43	3.51	3.59	3.68	3.77	3.87	3.97
PA	6	536	4.08	4.19	4.30							
BB	7	539	4.15	4.06	3.98	3.90	3.83	3.76	3.69	3.63	3.57	3.51
SB	10	579	3.03	2.97	2.93	2.90	2.87	2.86	2.86	2.86	2.87	2.88
SB	10	589	2.90	2.92	2.95	2.98	3.02	3.05	3.09	3.13	3.18	3.22
SB	10	599	3.27	3.32	3.37	3.42	3.47	3.53				
SB	11	605	3.46	3.41	3.36	3.31	3.27	3.24	3.21	3.18	3.15	3.13
SB	11	615	3.11	3.09	3.08	3.06	3.05	3.04	3.03	3.02	3.01	3.00
SB	11	625	3.00	2.99	2.98	2.98	2.97	2.97	2.97	2.96	2.96	2.95
SB	11	635	2.95	2.95	2.95	2.94	2.94	2.94	2.94	2.94	2.93	2.93
SB	11	645	2.93	2.93	2.93	2.93	2.93	2.92	2.92	2.92	2.92	2.92
SB	11	655	2.92	2.92	2.92	2.92						
BL	8	549	4.14	4.57	4.94	5.25	5.51	5.72	5.89	6.03	6.14	6.22
BL	8	559	6.28	6.32	6.35	6.36	6.35	6.34	6.31	6.28	6.25	6.20
BL	8	569	6.16	6.11								
SB	9	571	6.18	6.05	5.74	5.26	4.63	3.88	3.01	2.04		

INTERMEDIATE REPORT
Effective BOD
mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	2.58	2.58	2.58	2.58	2.57	2.57	2.57	2.57	2.57	2.57
BL	1	11	2.57	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.55	2.55
BL	1	21	2.55	2.55	2.55	2.54	2.54	2.54	2.54	2.54	2.54	2.53
BL	1	31	2.53	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.52	2.51
BL	1	41	2.51	2.51	2.51	2.50	2.50	2.50	2.50	2.50	2.49	2.49
BL	1	51	2.49	2.49	2.48	2.48	2.48	2.48	2.47	2.47	2.47	2.47
BL	1	61	2.47	2.46	2.46	2.46	2.46	2.45	2.45	2.45	2.45	2.44
BL	2	71	2.45	2.45	2.45	2.46	2.46	2.46	2.47	2.47	2.47	2.48
BL	2	81	2.48	2.48	2.49	2.49	2.49	2.50	2.50	2.50	2.50	2.51
BL	2	91	2.51	2.51	2.51	2.52	2.52	2.52	2.52	2.53	2.53	2.53
BL	2	101	2.53	2.53	2.54	2.54	2.54	2.54	2.54	2.55	2.55	2.55
BL	2	111	2.55	2.55	2.55	2.56	2.56	2.56	2.56	2.56	2.57	2.57
BL	2	121	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57
BL	2	131	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.56
BL	2	141	2.56	2.57	2.57	2.56	2.56	2.56	2.56	2.56	2.56	2.56
BL	2	151	2.56	2.56	2.56	2.56	2.55	2.55	2.55	2.55	2.55	2.55
BL	2	161	2.55	2.55	2.55	2.55	2.54	2.54	2.54	2.54	2.54	2.54
BL	2	171	2.54	2.54	2.54	2.54	2.53	2.53	2.53	2.53	2.53	2.53
BL	2	181	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.52	2.52	2.52
BL	2	191	2.52	2.52	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51
BL	2	201	2.51	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
BL	2	211	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.48	2.48

BL	2	221	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.47	2.47	2.47
BL	2	231	2.48	2.48	2.48	2.47	2.47	2.47	2.47	2.47	2.47	2.46
BL	2	241	2.46									
BL	3	242	2.45	2.45	2.44	2.43	2.42	2.41	2.40	2.39	2.39	2.38
BL	3	252	2.37	2.36	2.35	2.35	2.34	2.33	2.32	2.31	2.31	2.30
BL	3	262	2.29	2.28	2.28	2.27	2.26	2.25	2.25	2.24	2.23	2.22
BL	3	272	2.22	2.21	2.20	2.20	2.19	2.18	2.18	2.17	2.16	2.15
BL	3	282	2.15	2.14	2.13	2.13	2.12	2.12	2.11	2.10	2.10	2.09
BL	3	292	2.08	2.08	2.07	2.06	2.06	2.05	2.05	2.04	2.03	2.03
BL	3	302	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.98	1.98	1.97
BL	3	312	1.96	1.96	1.95	1.95	1.94	1.94	1.93	1.93	1.92	1.92
BL	3	322	1.91	1.91	1.90	1.89	1.89	1.88	1.88	1.87	1.87	1.86
BL	3	332	1.86	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.82	1.82
BL	3	342	1.81	1.81	1.80	1.80	1.79	1.79	1.78	1.78	1.77	1.77
BL	3	352	1.77	1.76	1.76	1.75	1.75	1.74	1.74	1.74	1.73	1.73
BL	3	362	1.72	1.72	1.71	1.71	1.71	1.70	1.70	1.69	1.69	1.69
BL	3	372	1.68	1.68	1.67	1.67	1.67					
BL	4	377	1.89	2.10	2.30	2.49	2.68	2.86	3.03	3.19	3.35	3.50
BL	4	387	3.64	3.59	3.71	3.82	3.93	4.03	4.13	4.23	4.32	4.41
BL	4	397	4.50	4.59	4.67	4.75	4.82	4.89	4.96	5.03	5.10	5.16
BL	4	407	5.22	5.28	5.33	5.39	5.44	5.49	5.54	5.58	5.63	5.67
BL	4	417	5.71	5.75	5.79	5.82	5.86	5.89	5.92	5.96	5.99	6.01
BL	4	427	6.04	6.07	6.09	6.12	6.14	6.16	6.19	6.21	6.23	6.24
BL	4	437	6.26	6.28	6.30	6.31	6.33	6.34	6.35	6.37	6.38	6.39
BL	4	447	6.40	6.41	6.42							
CL	5	450	6.47	6.51	6.55	6.59	6.62	6.66	6.69	6.72	6.75	6.78
CL	5	460	6.81	6.84	6.86	6.89	6.91	6.93	6.95	6.97	6.99	7.01
CL	5	470	7.03	7.05	7.06	7.08	7.09	7.10	7.12	7.13	7.14	7.15
CL	5	480	7.16	7.17	7.18	7.18	7.19	7.20	7.20	7.21	7.22	7.22
CL	5	490	7.22	7.23	7.23	7.23	7.24	7.24	7.24	7.24	7.24	7.24
CL	5	500	7.25	7.25	7.25	7.24	7.24	7.24				
PA	6	506	7.31	7.37	7.43	7.48	7.53	7.58	7.62	7.65	7.69	7.72
PA	6	516	7.74	7.77	7.79	7.81	7.82	7.84	7.85	7.86	7.87	7.88
PA	6	526	7.88	7.89	7.89	7.89	7.89	7.89	7.89	7.88	7.88	7.87
PA	6	536	7.87	7.86	7.86							
BB	7	539	4.96	5.25	5.54	5.81	6.08	6.35	6.60	6.85	7.09	7.32
SB	10	579	10.59	10.54	10.49	10.45	10.41	10.36	10.32	10.29	10.25	10.22
SB	10	589	10.18	10.15	10.12	10.10	10.07	10.05	10.02	10.00	9.98	9.96
SB	10	599	9.94	9.92	9.90	9.89	9.87	9.86				
SB	11	605	9.86	9.87	9.87	9.88	9.88	9.89	9.89	9.90	9.90	9.90
SB	11	615	9.91	9.91	9.91	9.92	9.92	9.92	9.92	9.92	9.93	9.93
SB	11	625	9.93	9.93	9.93	9.94	9.94	9.94	9.94	9.94	9.94	9.94
SB	11	635	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95
SB	11	645	9.95	9.95	9.95	9.95	9.96	9.96	9.96	9.96	9.96	9.96
SB	11	655	9.96	9.96	9.96	9.96						
BL	8	549	7.74	8.20	8.62	9.00	9.35	9.67	9.96	10.23	10.47	10.69
BL	8	559	10.89	11.08	11.25	11.40	11.55	11.68	11.79	11.90	12.00	12.09
BL	8	569	12.17	12.25								
SB	9	571	13.42	14.49	15.47	16.35	17.15	17.87	18.53	19.12		

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	2.58	2.58	2.58	2.58	2.57	2.57	2.57	2.57	2.57	2.57
BL	1	11	2.57	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.55	2.55
BL	1	21	2.55	2.55	2.55	2.54	2.54	2.54	2.54	2.54	2.54	2.53
BL	1	31	2.53	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.52	2.51
BL	1	41	2.51	2.51	2.51	2.50	2.50	2.50	2.50	2.50	2.49	2.49
BL	1	51	2.49	2.49	2.48	2.48	2.48	2.48	2.47	2.47	2.47	2.47
BL	1	61	2.47	2.46	2.46	2.46	2.46	2.45	2.45	2.45	2.45	2.44
BL	2	71	2.45	2.45	2.45	2.46	2.46	2.46	2.47	2.47	2.47	2.48
BL	2	81	2.48	2.48	2.49	2.49	2.49	2.50	2.50	2.50	2.50	2.51
BL	2	91	2.51	2.51	2.51	2.52	2.52	2.52	2.52	2.53	2.53	2.53
BL	2	101	2.53	2.53	2.54	2.54	2.54	2.54	2.54	2.55	2.55	2.55
BL	2	111	2.55	2.55	2.55	2.56	2.56	2.56	2.56	2.56	2.57	2.57
BL	2	121	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57
BL	2	131	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.56
BL	2	141	2.56	2.57	2.57	2.56	2.56	2.56	2.56	2.56	2.56	2.56
BL	2	151	2.56	2.56	2.56	2.56	2.55	2.55	2.55	2.55	2.55	2.55
BL	2	161	2.55	2.55	2.55	2.55	2.54	2.54	2.54	2.54	2.54	2.54
BL	2	171	2.54	2.54	2.54	2.54	2.53	2.53	2.53	2.53	2.53	2.53
BL	2	181	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.52	2.52	2.52
BL	2	191	2.52	2.52	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51
BL	2	201	2.51	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
BL	2	211	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.48	2.48
BL	2	221	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.47	2.47	2.47
BL	2	231	2.48	2.48	2.48	2.47	2.47	2.47	2.47	2.47	2.47	2.46
BL	2	241	2.46									
BL	3	242	2.45	2.45	2.44	2.43	2.42	2.41	2.40	2.39	2.39	2.38
BL	3	252	2.37	2.36	2.35	2.35	2.34	2.33	2.32	2.31	2.31	2.30
BL	3	262	2.29	2.28	2.28	2.27	2.26	2.25	2.25	2.24	2.23	2.22
BL	3	272	2.22	2.21	2.20	2.20	2.19	2.18	2.18	2.17	2.16	2.15
BL	3	282	2.15	2.14	2.13	2.13	2.12	2.12	2.11	2.10	2.10	2.09
BL	3	292	2.08	2.08	2.07	2.06	2.06	2.05	2.05	2.04	2.03	2.03
BL	3	302	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.98	1.98	1.97
BL	3	312	1.96	1.96	1.95	1.95	1.94	1.94	1.93	1.93	1.92	1.92
BL	3	322	1.91	1.91	1.90	1.89	1.89	1.88	1.88	1.87	1.87	1.86
BL	3	332	1.86	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.82	1.82
BL	3	342	1.81	1.81	1.80	1.80	1.79	1.79	1.78	1.78	1.77	1.77
BL	3	352	1.77	1.76	1.76	1.75	1.75	1.74	1.74	1.74	1.73	1.73
BL	3	362	1.72	1.72	1.71	1.71	1.71	1.70	1.70	1.69	1.69	1.69
BL	3	372	1.68	1.68	1.67	1.67	1.67					
BL	4	377	1.89	2.10	2.30	2.49	2.68	2.86	3.03	3.19	3.35	3.50
BL	4	387	3.64	3.59	3.71	3.82	3.93	4.03	4.13	4.23	4.32	4.41
BL	4	397	4.50	4.59	4.67	4.75	4.82	4.89	4.96	5.03	5.10	5.16
BL	4	407	5.22	5.28	5.33	5.39	5.44	5.49	5.54	5.58	5.63	5.67
BL	4	417	5.71	5.75	5.79	5.82	5.86	5.89	5.92	5.96	5.99	6.01

BL	4	427	6.04	6.07	6.09	6.12	6.14	6.16	6.19	6.21	6.23	6.24
BL	4	437	6.26	6.28	6.30	6.31	6.33	6.34	6.35	6.37	6.38	6.39
BL	4	447	6.40	6.41	6.42							
CL	5	450	6.47	6.51	6.55	6.59	6.62	6.66	6.69	6.72	6.75	6.78
CL	5	460	6.81	6.84	6.86	6.89	6.91	6.93	6.95	6.97	6.99	7.01
CL	5	470	7.03	7.05	7.06	7.08	7.09	7.10	7.12	7.13	7.14	7.15
CL	5	480	7.16	7.17	7.18	7.18	7.19	7.20	7.20	7.21	7.22	7.22
CL	5	490	7.22	7.23	7.23	7.23	7.24	7.24	7.24	7.24	7.24	7.24
CL	5	500	7.25	7.25	7.25	7.24	7.24	7.24				
PA	6	506	7.31	7.37	7.43	7.48	7.53	7.58	7.62	7.65	7.69	7.72
PA	6	516	7.74	7.77	7.79	7.81	7.82	7.84	7.85	7.86	7.87	7.88
PA	6	526	7.88	7.89	7.89	7.89	7.89	7.89	7.89	7.88	7.88	7.87
PA	6	536	7.87	7.86	7.86							
BB	7	539	4.96	5.25	5.54	5.81	6.08	6.35	6.60	6.85	7.09	7.32
SB	10	579	10.59	10.54	10.49	10.45	10.41	10.36	10.32	10.29	10.25	10.22
SB	10	589	10.18	10.15	10.12	10.10	10.07	10.05	10.02	10.00	9.98	9.96
SB	10	599	9.94	9.92	9.90	9.89	9.87	9.86				
SB	11	605	9.86	9.87	9.87	9.88	9.88	9.89	9.89	9.90	9.90	9.90
SB	11	615	9.91	9.91	9.91	9.92	9.92	9.92	9.92	9.92	9.93	9.93
SB	11	625	9.93	9.93	9.93	9.94	9.94	9.94	9.94	9.94	9.94	9.94
SB	11	635	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95
SB	11	645	9.95	9.95	9.95	9.95	9.96	9.96	9.96	9.96	9.96	9.96
SB	11	655	9.96	9.96	9.96	9.96						
BL	8	549	7.74	8.20	8.62	9.00	9.35	9.67	9.96	10.23	10.47	10.69
BL	8	559	10.89	11.08	11.25	11.40	11.55	11.68	11.79	11.90	12.00	12.09
BL	8	569	12.17	12.25								
SB	9	571	13.42	14.49	15.47	16.35	17.15	17.87	18.53	19.12		

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo

mg/L — Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	1	11	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	1	21	1.39	1.39	1.39	1.39	1.40	1.40	1.40	1.40	1.40	1.40
BL	1	31	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
BL	1	41	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
BL	1	51	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.39
BL	1	61	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	2	71	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	2	81	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	2	91	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
BL	2	101	1.39	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38
BL	2	111	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
BL	2	121	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
BL	2	131	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.37	1.37
BL	2	141	1.37	1.38	1.38	1.37	1.37	1.37	1.37	1.37	1.37	1.37

BL	2	151	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
BL	2	161	1.37	1.37	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
BL	2	171	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
BL	2	181	1.36	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.35
BL	2	191	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
BL	2	201	1.35	1.35	1.35	1.34	1.34	1.34	1.34	1.34	1.34	1.34
BL	2	211	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
BL	2	221	1.34	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.33
BL	2	231	1.34	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.33
BL	2	241	1.33									
BL	3	242	1.33	1.34	1.34	1.34	1.35	1.35	1.35	1.36	1.36	1.36
BL	3	252	1.36	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.39	1.39
BL	3	262	1.39	1.40	1.40	1.40	1.40	1.41	1.41	1.41	1.41	1.42
BL	3	272	1.42	1.42	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44
BL	3	282	1.45	1.45	1.45	1.45	1.45	1.46	1.46	1.46	1.46	1.47
BL	3	292	1.47	1.47	1.47	1.48	1.48	1.48	1.48	1.49	1.49	1.49
BL	3	302	1.49	1.49	1.50	1.50	1.50	1.50	1.51	1.51	1.51	1.51
BL	3	312	1.51	1.52	1.52	1.52	1.52	1.52	1.53	1.53	1.53	1.53
BL	3	322	1.53	1.54	1.54	1.54	1.54	1.54	1.55	1.55	1.55	1.55
BL	3	332	1.55	1.56	1.56	1.56	1.56	1.56	1.56	1.57	1.57	1.57
BL	3	342	1.57	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.59	1.59
BL	3	352	1.59	1.59	1.59	1.59	1.60	1.60	1.60	1.60	1.60	1.60
BL	3	362	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.62	1.62	1.62
BL	3	372	1.62	1.62	1.62	1.63	1.63					
BL	4	377	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
BL	4	387	1.64	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
BL	4	397	1.60	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	4	407	1.61	1.61	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62
BL	4	417	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
BL	4	427	1.62	1.62	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.63
BL	4	437	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
BL	4	447	1.63	1.63	1.63							
CL	5	450	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
CL	5	460	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
CL	5	470	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.61	1.61	1.61
CL	5	480	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
CL	5	490	1.61	1.61	1.61	1.61	1.60	1.60	1.60	1.60	1.60	1.60
CL	5	500	1.60	1.60	1.60	1.60	1.60	1.60				
PA	6	506	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.59	1.59	1.59
PA	6	516	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
PA	6	526	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58
PA	6	536	1.58	1.58	1.58							
BB	7	539	1.49	1.51	1.53	1.54	1.56	1.58	1.60	1.62	1.63	1.65
SB	10	579	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64	1.64	1.64
SB	10	589	1.64	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.62
SB	10	599	1.62	1.62	1.62	1.62	1.62	1.62				
SB	11	605	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.63	1.63	1.63
SB	11	615	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
SB	11	625	1.63	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
SB	11	635	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.65	1.65	1.65
SB	11	645	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65

SB	11	655	1.65	1.65	1.65	1.65						
BL	8	549	1.60	1.60	1.60	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	8	559	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.63
BL	8	569	1.63	1.63								
SB	9	571	1.63	1.63	1.64	1.64	1.64	1.64	1.65	1.65		

INTERMEDIATE REPORT
Ammonia Nitrogen
mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	31	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	41	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	51	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	1	61	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	2	71	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	2	81	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	2	91	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	2	101	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21
BL	2	111	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22
BL	2	121	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	131	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	141	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	151	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	161	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	171	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	181	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	191	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	201	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	211	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	221	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	231	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	241	0.21									
BL	3	242	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	252	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	262	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	272	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	282	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	292	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	302	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	312	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	322	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	332	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	342	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	352	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22

BL	3	362	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	372	0.22	0.22	0.22	0.22	0.22					
BL	4	377	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	387	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	397	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	407	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	417	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	427	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	437	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
BL	4	447	0.23	0.23	0.23							
CL	5	450	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CL	5	460	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CL	5	470	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CL	5	480	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CL	5	490	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CL	5	500	0.23	0.23	0.23	0.23	0.23	0.23				
PA	6	506	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
PA	6	516	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
PA	6	526	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21
PA	6	536	0.21	0.21	0.21							
BB	7	539	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
SB	10	579	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SB	10	589	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.22
SB	10	599	0.22	0.22	0.22	0.22	0.22	0.22				
SB	11	605	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SB	11	615	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	625	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	635	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	645	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	655	0.23	0.23	0.23	0.23						
BL	8	549	0.23	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20
BL	8	559	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	8	569	0.20	0.20								
SB	9	571	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21		

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen
mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Total Nitrogen
mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.62	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	1	11	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.62	1.62
BL	1	21	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
BL	1	31	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
BL	1	41	1.62	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.61
BL	1	51	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	1	61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	2	71	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	2	81	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
BL	2	91	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
BL	2	101	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
BL	2	111	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
BL	2	121	1.60	1.60	1.60	1.60	1.60	1.60	1.59	1.59	1.59	1.59
BL	2	131	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
BL	2	141	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
BL	2	151	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
BL	2	161	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57
BL	2	171	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
BL	2	181	1.57	1.57	1.57	1.57	1.57	1.57	1.56	1.56	1.56	1.56
BL	2	191	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
BL	2	201	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55	1.55	1.55
BL	2	211	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
BL	2	221	1.55	1.55	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
BL	2	231	1.55	1.55	1.55	1.54	1.54	1.54	1.54	1.54	1.54	1.54
BL	2	241	1.54									
BL	3	242	1.54	1.55	1.55	1.55	1.56	1.56	1.56	1.56	1.57	1.57
BL	3	252	1.57	1.58	1.58	1.58	1.58	1.59	1.59	1.59	1.60	1.60
BL	3	262	1.60	1.60	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.63
BL	3	272	1.63	1.63	1.63	1.64	1.64	1.64	1.65	1.65	1.65	1.65
BL	3	282	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67	1.68	1.68

BL	3	292	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70
BL	3	302	1.70	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.73
BL	3	312	1.73	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.75	1.75
BL	3	322	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.77	1.77
BL	3	332	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.79	1.79	1.79
BL	3	342	1.79	1.79	1.79	1.80	1.80	1.80	1.80	1.80	1.81	1.81
BL	3	352	1.81	1.81	1.81	1.82	1.82	1.82	1.82	1.82	1.82	1.83
BL	3	362	1.83	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84
BL	3	372	1.85	1.85	1.85	1.85	1.85					
BL	4	377	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
BL	4	387	1.87	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
BL	4	397	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.84	1.84
BL	4	407	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.85
BL	4	417	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
BL	4	427	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.86
BL	4	437	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
BL	4	447	1.86	1.86	1.86							
CL	5	450	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
CL	5	460	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85
CL	5	470	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84
CL	5	480	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
CL	5	490	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
CL	5	500	1.83	1.83	1.83	1.83	1.82	1.82				
PA	6	506	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
PA	6	516	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.81
PA	6	526	1.81	1.81	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.79
PA	6	536	1.79	1.79	1.79							
BB	7	539	1.70	1.72	1.74	1.76	1.77	1.79	1.81	1.83	1.84	1.86
SB	10	579	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
SB	10	589	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85
SB	10	599	1.85	1.85	1.85	1.84	1.84	1.84				
SB	11	605	1.84	1.84	1.84	1.84	1.84	1.85	1.85	1.85	1.85	1.85
SB	11	615	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.86
SB	11	625	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87
SB	11	635	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88
SB	11	645	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
SB	11	655	1.89	1.89	1.89	1.89						
BL	8	549	1.83	1.83	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82
BL	8	559	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
BL	8	569	1.82	1.82								
SB	9	571	1.83	1.83	1.83	1.84	1.84	1.84	1.85	1.86		

INTERMEDIATE REPORT

Chlorophyll a
µg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	75.20	74.40	73.60	72.80	72.00	71.20	70.40	69.60	68.80	68.00

BL	1	11	67.20	66.40	65.60	64.80	64.00	63.20	62.40	61.60	60.80	60.00
BL	1	21	59.20	58.40	57.60	56.80	56.00	55.20	54.40	53.60	52.80	52.00
BL	1	31	51.20	50.40	49.60	48.80	48.00	47.20	46.40	45.60	44.80	44.00
BL	1	41	43.20	42.40	41.60	40.80	40.00	39.20	38.40	37.60	36.80	36.00
BL	1	51	35.20	34.40	33.60	32.80	32.00	31.20	30.40	29.60	28.80	28.00
BL	1	61	27.20	26.40	25.60	24.80	24.00	23.20	22.40	21.60	20.80	20.00
BL	2	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	161	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	171	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	181	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	191	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	201	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	211	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	221	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	231	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	241	20.00									
BL	3	242	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	252	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	262	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	272	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	282	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	292	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	302	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	312	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	322	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	332	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	342	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	352	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	362	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	372	20.00	20.00	20.00	20.00	20.00					
BL	4	377	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	387	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	397	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	407	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	417	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	427	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	437	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	447	20.00	20.00	20.00							
CL	5	450	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	460	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	470	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	480	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	490	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

CL	5	500	20.00	20.00	20.00	20.00	20.00	20.00				
PA	6	506	20.42	20.85	21.27	21.70	22.12	22.55	22.97	23.39	23.82	24.24
PA	6	516	24.67	25.09	25.52	25.94	26.36	26.79	27.21	27.64	28.06	28.48
PA	6	526	28.91	29.33	29.76	30.18	30.61	31.03	31.45	31.88	32.30	32.73
PA	6	536	33.15	33.58	34.00							
BB	7	539	34.80	35.60	36.40	37.20	38.00	38.80	39.60	40.40	41.20	42.00
SB	10	579	42.31	42.62	42.92	43.23	43.54	43.85	44.15	44.46	44.77	45.08
SB	10	589	45.38	45.69	46.00	46.31	46.62	46.92	47.23	47.54	47.85	48.15
SB	10	599	48.46	48.77	49.08	49.38	49.69	50.00				
SB	11	605	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	615	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	625	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	635	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	645	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	655	50.00	50.00	50.00	50.00						
BL	8	549	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	559	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	569	75.00	75.00								
SB	9	571	70.88	66.75	62.62	58.50	54.38	50.25	46.12	42.00		

INTERMEDIATE REPORT

Temperature — LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo

deg C — Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	23.42	23.44	23.46	23.47	23.49	23.51	23.53	23.55	23.57	23.59
BL	1	11	23.60	23.62	23.64	23.66	23.68	23.70	23.72	23.73	23.75	23.77
BL	1	21	23.79	23.81	23.83	23.85	23.86	23.88	23.90	23.92	23.94	23.96
BL	1	31	23.98	23.99	24.01	24.03	24.05	24.07	24.09	24.11	24.12	24.14
BL	1	41	24.16	24.18	24.20	24.22	24.24	24.25	24.27	24.29	24.31	24.33
BL	1	51	24.35	24.37	24.38	24.40	24.42	24.44	24.46	24.48	24.50	24.51
BL	1	61	24.53	24.55	24.57	24.59	24.61	24.63	24.64	24.66	24.68	24.70
BL	2	71	24.70	24.70	24.70	24.70	24.71	24.71	24.71	24.71	24.71	24.71
BL	2	81	24.71	24.71	24.72	24.72	24.72	24.72	24.72	24.72	24.72	24.72
BL	2	91	24.72	24.73	24.73	24.73	24.73	24.73	24.73	24.73	24.73	24.74
BL	2	101	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.74	24.75	24.75
BL	2	111	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.76	24.76	24.76
BL	2	121	24.76	24.76	24.76	24.76	24.76	24.77	24.77	24.77	24.77	24.77
BL	2	131	24.77	24.77	24.77	24.77	24.78	24.78	24.78	24.78	24.78	24.78
BL	2	141	24.78	24.78	24.79	24.79	24.79	24.79	24.79	24.79	24.79	24.79
BL	2	151	24.79	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.81
BL	2	161	24.81	24.81	24.81	24.81	24.81	24.81	24.81	24.81	24.82	24.82
BL	2	171	24.82	24.82	24.82	24.82	24.82	24.82	24.83	24.83	24.83	24.83
BL	2	181	24.83	24.83	24.83	24.83	24.83	24.84	24.84	24.84	24.84	24.84
BL	2	191	24.84	24.84	24.84	24.85	24.85	24.85	24.85	24.85	24.85	24.85
BL	2	201	24.85	24.85	24.86	24.86	24.86	24.86	24.86	24.86	24.86	24.86
BL	2	211	24.86	24.87	24.87	24.87	24.87	24.87	24.87	24.87	24.87	24.88
BL	2	221	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.88	24.89	24.89

BL	2	231	24.89	24.89	24.89	24.89	24.89	24.89	24.90	24.90	24.90	24.90
BL	2	241	24.90									
BL	3	242	24.91	24.92	24.93	24.94	24.95	24.96	24.97	24.98	24.99	25.00
BL	3	252	25.01	25.02	25.03	25.05	25.06	25.07	25.08	25.09	25.10	25.11
BL	3	262	25.12	25.13	25.14	25.15	25.16	25.17	25.18	25.19	25.20	25.21
BL	3	272	25.22	25.23	25.24	25.25	25.26	25.27	25.28	25.29	25.30	25.31
BL	3	282	25.33	25.34	25.35	25.36	25.37	25.38	25.39	25.40	25.41	25.42
BL	3	292	25.43	25.44	25.45	25.46	25.47	25.48	25.49	25.50	25.51	25.52
BL	3	302	25.53	25.54	25.55	25.56	25.57	25.58	25.59	25.61	25.62	25.63
BL	3	312	25.64	25.65	25.66	25.67	25.68	25.69	25.70	25.71	25.72	25.73
BL	3	322	25.74	25.75	25.76	25.77	25.78	25.79	25.80	25.81	25.82	25.83
BL	3	332	25.84	25.85	25.86	25.87	25.89	25.90	25.91	25.92	25.93	25.94
BL	3	342	25.95	25.96	25.97	25.98	25.99	26.00	26.01	26.02	26.03	26.04
BL	3	352	26.05	26.06	26.07	26.08	26.09	26.10	26.11	26.12	26.13	26.14
BL	3	362	26.15	26.17	26.18	26.19	26.20	26.21	26.22	26.23	26.24	26.25
BL	3	372	26.26	26.27	26.28	26.29	26.30					
BL	4	377	26.32	26.34	26.35	26.37	26.39	26.41	26.42	26.44	26.46	26.48
BL	4	387	26.50	26.51	26.53	26.55	26.57	26.58	26.60	26.62	26.64	26.66
BL	4	397	26.67	26.69	26.71	26.73	26.75	26.76	26.78	26.80	26.82	26.83
BL	4	407	26.85	26.87	26.89	26.91	26.92	26.94	26.96	26.98	26.99	27.01
BL	4	417	27.03	27.05	27.07	27.08	27.10	27.12	27.14	27.15	27.17	27.19
BL	4	427	27.21	27.23	27.24	27.26	27.28	27.30	27.32	27.33	27.35	27.37
BL	4	437	27.39	27.40	27.42	27.44	27.46	27.48	27.49	27.51	27.53	27.55
BL	4	447	27.56	27.58	27.60							
CL	5	450	27.63	27.65	27.68	27.71	27.73	27.76	27.79	27.81	27.84	27.87
CL	5	460	27.89	27.92	27.95	27.98	28.00	28.03	28.06	28.08	28.11	28.14
CL	5	470	28.16	28.19	28.22	28.24	28.27	28.30	28.32	28.35	28.38	28.40
CL	5	480	28.43	28.46	28.48	28.51	28.54	28.56	28.59	28.62	28.64	28.67
CL	5	490	28.70	28.73	28.75	28.78	28.81	28.83	28.86	28.89	28.91	28.94
CL	5	500	28.97	28.99	29.02	29.05	29.07	29.10				
PA	6	506	29.15	29.19	29.24	29.28	29.33	29.37	29.42	29.46	29.51	29.55
PA	6	516	29.60	29.65	29.69	29.74	29.78	29.83	29.87	29.92	29.96	30.01
PA	6	526	30.05	30.10	30.15	30.19	30.24	30.28	30.33	30.37	30.42	30.46
PA	6	536	30.51	30.55	30.60							
BB	7	539	30.58	30.56	30.54	30.52	30.50	30.48	30.46	30.44	30.42	30.40
SB	10	579	30.39	30.38	30.38	30.37	30.36	30.35	30.35	30.34	30.33	30.32
SB	10	589	30.32	30.31	30.30	30.29	30.28	30.28	30.27	30.26	30.25	30.25
SB	10	599	30.24	30.23	30.22	30.22	30.21	30.20				
SB	11	605	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20
SB	11	615	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20
SB	11	625	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20
SB	11	635	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20
SB	11	645	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20	30.20
SB	11	655	30.20	30.20	30.20	30.20						
BL	8	549	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80
BL	8	559	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80	29.80
BL	8	569	29.80	29.80								
SB	9	571	29.88	29.95	30.02	30.10	30.17	30.25	30.32	30.40		

Salinity
ppt

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance
km

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	125.	125.	125.	125.	125.	124.	124.	124.	124.	124.
BL	1	11	123.	123.	123.	123.	123.	122.	122.	122.	122.	122.
BL	1	21	121.	121.	121.	121.	121.	120.	120.	120.	120.	120.
BL	1	31	119.	119.	119.	119.	119.	118.	118.	118.	118.	118.
BL	1	41	117.	117.	117.	117.	117.	116.	116.	116.	116.	116.
BL	1	51	115.	115.	115.	115.	115.	114.	114.	114.	114.	114.
BL	1	61	113.	113.	113.	113.	113.	112.	112.	112.	112.	112.
BL	2	71	111.	111.	111.	111.	111.	110.	110.	110.	110.	110.
BL	2	81	109.	109.	109.	109.	109.	108.	108.	108.	108.	108.
BL	2	91	107.	107.	107.	107.	107.	106.	106.	106.	106.	106.
BL	2	101	105.	105.	105.	105.	105.	104.	104.	104.	104.	104.
BL	2	111	103.	103.	103.	103.	103.	102.	102.	102.	102.	102.
BL	2	121	101.	101.	101.	101.	101.	100.	100.	100.	100.	100.
BL	2	131	99.	99.	99.	99.	99.	98.	98.	98.	98.	98.
BL	2	141	97.	97.	97.	97.	97.	96.	96.	96.	96.	96.
BL	2	151	95.	95.	95.	95.	95.	94.	94.	94.	94.	94.

BL	2	161	93.	93.	93.	93.	93.	92.	92.	92.	92.	92.
BL	2	171	91.	91.	91.	91.	91.	90.	90.	90.	90.	90.
BL	2	181	89.	89.	89.	89.	89.	88.	88.	88.	88.	88.
BL	2	191	87.	87.	87.	87.	87.	86.	86.	86.	86.	86.
BL	2	201	85.	85.	85.	85.	85.	84.	84.	84.	84.	84.
BL	2	211	83.	83.	83.	83.	83.	82.	82.	82.	82.	82.
BL	2	221	81.	81.	81.	81.	81.	80.	80.	80.	80.	80.
BL	2	231	79.	79.	79.	79.	79.	78.	78.	78.	78.	78.
BL	2	241	77.									
BL	3	242	77.	77.	77.	77.	76.	76.	76.	76.	76.	75.
BL	3	252	75.	75.	75.	75.	74.	74.	74.	74.	74.	73.
BL	3	262	73.	73.	73.	73.	72.	72.	72.	72.	72.	71.
BL	3	272	71.	71.	71.	71.	70.	70.	70.	70.	70.	69.
BL	3	282	69.	69.	69.	69.	68.	68.	68.	68.	68.	67.
BL	3	292	67.	67.	67.	67.	66.	66.	66.	66.	66.	65.
BL	3	302	65.	65.	65.	65.	64.	64.	64.	64.	64.	63.
BL	3	312	63.	63.	63.	63.	62.	62.	62.	62.	62.	61.
BL	3	322	61.	61.	61.	61.	60.	60.	60.	60.	60.	59.
BL	3	332	59.	59.	59.	59.	58.	58.	58.	58.	58.	57.
BL	3	342	57.	57.	57.	57.	56.	56.	56.	56.	56.	55.
BL	3	352	55.	55.	55.	55.	54.	54.	54.	54.	54.	53.
BL	3	362	53.	53.	53.	53.	52.	52.	52.	52.	52.	51.
BL	3	372	51.	51.	51.	51.	50.					
BL	4	377	50.	50.	50.	50.	49.	49.	49.	49.	49.	48.
BL	4	387	48.	48.	48.	48.	47.	47.	47.	47.	47.	46.
BL	4	397	46.	46.	46.	46.	45.	45.	45.	45.	45.	44.
BL	4	407	44.	44.	44.	44.	43.	43.	43.	43.	43.	42.
BL	4	417	42.	42.	42.	42.	41.	41.	41.	41.	41.	40.
BL	4	427	40.	40.	40.	40.	39.	39.	39.	39.	39.	38.
BL	4	437	38.	38.	38.	38.	37.	37.	37.	37.	37.	36.
BL	4	447	36.	36.	36.							
CL	5	450	36.	35.	35.	35.	35.	35.	34.	34.	34.	34.
CL	5	460	34.	33.	33.	33.	33.	33.	32.	32.	32.	32.
CL	5	470	32.	31.	31.	31.	31.	31.	30.	30.	30.	30.
CL	5	480	30.	29.	29.	29.	29.	29.	28.	28.	28.	28.
CL	5	490	28.	27.	27.	27.	27.	27.	26.	26.	26.	26.
CL	5	500	26.	25.	25.	25.	25.	25.				
PA	6	506	24.	24.	24.	24.	24.	23.	23.	23.	23.	23.
PA	6	516	22.	22.	22.	22.	22.	21.	21.	21.	21.	21.
PA	6	526	20.	20.	20.	20.	20.	19.	19.	19.	19.	19.
PA	6	536	18.	18.	18.							
BB	7	539	18.	18.	17.	17.	17.	17.	17.	16.	16.	16.
SB	10	579	16.	16.	15.	15.	15.	15.	15.	14.	14.	14.
SB	10	589	14.	14.	13.	13.	13.	13.	13.	12.	12.	12.
SB	10	599	12.	12.	11.	11.	11.	11.				
SB	11	605	11.	10.	10.	10.	10.	10.	9.	9.	9.	9.
SB	11	615	9.	8.	8.	8.	8.	8.	7.	7.	7.	7.
SB	11	625	7.	6.	6.	6.	6.	6.	5.	5.	5.	5.
SB	11	635	5.	4.	4.	4.	4.	4.	3.	3.	3.	3.
SB	11	645	3.	2.	2.	2.	2.	2.	1.	1.	1.	1.
SB	11	655	1.	0.	0.	0.						

BL	8	549	6.	6.	5.	5.	5.	5.	5.	4.	4.	4.
BL	8	559	4.	4.	3.	3.	3.	3.	3.	2.	2.	2.
BL	8	569	2.	2.								
SB	9	571	1.	1.	1.	1.	1.	0.	0.	0.		

INTERMEDIATE REPORT

Flow
m^3/s

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	31	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	41	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	51	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	1	61	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	71	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	81	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	91	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	101	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	111	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
BL	2	121	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	131	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	141	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	151	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	161	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	171	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	181	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	191	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	201	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	211	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	221	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	231	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	2	241	0.4									
BL	3	242	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	252	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	262	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	272	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	282	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	292	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	302	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	312	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	322	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	332	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	342	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	352	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	3	362	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5

BL	3	372	0.5	0.5	0.5	0.5	0.5					
BL	4	377	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BL	4	387	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	397	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	407	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	417	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	427	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	437	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	4	447	0.6	0.6	0.6							
CL	5	450	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CL	5	460	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CL	5	470	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CL	5	480	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CL	5	490	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CL	5	500	0.6	0.6	0.6	0.6	0.6	0.3				
PA	6	506	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
PA	6	516	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
PA	6	526	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
PA	6	536	0.3	0.3	0.3							
BB	7	539	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	10	579	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	10	589	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	10	599	1.1	1.1	1.1	1.1	1.1	1.1				
SB	11	605	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	11	615	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	11	625	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	11	635	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	11	645	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SB	11	655	1.1	1.1	1.1	1.1						
BL	8	549	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	8	559	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	8	569	0.3	0.3								
SB	9	571	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		

INTERMEDIATE REPORT

Dispersion LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo

m^2/s Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	241	0.0									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	342	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	372	0.0	0.0	0.0	0.0	0.0					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Advective Velocity
m/s

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	241	0.0									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	342	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	372	0.0	0.0	0.0	0.0	0.0					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Depth
m

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	1	11	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

BL	1	21	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	1	31	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	1	41	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	1	51	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	1	61	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	71	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	81	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	91	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	101	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	111	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	121	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	131	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	141	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	151	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	161	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	171	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	181	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	191	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	201	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	211	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	221	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	231	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	241	1.0									
BL	3	242	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	252	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	262	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	272	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	282	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	292	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	302	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	312	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	322	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	332	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	342	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	3	352	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
BL	3	362	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	3	372	1.2	1.2	1.2	1.2	1.2					
BL	4	377	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	387	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	397	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	407	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	417	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	427	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	437	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	447	10.0	10.0	10.0							
CL	5	450	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	460	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	470	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	480	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	490	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	500	10.0	10.0	10.0	10.0	10.0	10.0				

PA	6	506	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	516	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	526	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	536	10.0	10.0	10.0							
BB	7	539	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
SB	10	579	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	589	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	599	4.6	4.6	4.6	4.6	4.6	4.6				
SB	11	605	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	615	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	625	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	635	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	645	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	655	4.6	4.6	4.6	4.6						
BL	8	549	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	8	559	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	8	569	10.0	10.0								
SB	9	571	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		

INTERMEDIATE REPORT

Width LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo

m Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
BL	1	11	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
BL	1	21	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
BL	1	31	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
BL	1	41	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
BL	1	51	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
BL	1	61	9.1	9.1	9.1	9.2	9.2	9.2	9.2	9.2	9.2	
BL	2	71	9.8	9.8	9.8	9.8	9.8	9.8	9.9	9.9	9.9	
BL	2	81	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
BL	2	91	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
BL	2	101	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
BL	2	111	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.1
BL	2	121	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
BL	2	131	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
BL	2	141	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
BL	2	151	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
BL	2	161	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	2	171	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	2	181	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	2	191	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	2	201	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	2	211	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
BL	2	221	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
BL	2	231	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6

BL	2	241	10.6									
BL	3	242	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
BL	3	252	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
BL	3	262	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.4
BL	3	272	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	282	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	292	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	302	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	312	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	322	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BL	3	332	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BL	3	342	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BL	3	352	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BL	3	362	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BL	3	372	12.5	12.5	12.5	12.5	12.5					
BL	4	377	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	387	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	397	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	407	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	417	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	427	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	437	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	4	447	10.0	10.0	10.0							
CL	5	450	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	460	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	470	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	480	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	490	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
CL	5	500	10.0	10.0	10.0	10.0	10.0	10.0				
PA	6	506	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	516	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	526	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PA	6	536	10.0	10.0	10.0							
BB	7	539	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
SB	10	579	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	589	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	599	50.6	50.6	50.6	50.6	50.6	50.6				
SB	11	605	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	615	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	625	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	635	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	645	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	655	61.5	61.5	61.5	61.5						
BL	8	549	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	8	559	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	8	569	10.0	10.0								
SB	9	571	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		

m²

Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7
BL	1	11	7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.9
BL	1	21	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.0	8.0	8.0
BL	1	31	8.0	8.0	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1
BL	1	41	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3
BL	1	51	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.4
BL	1	61	8.4	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.5
BL	2	71	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.4
BL	2	81	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.5
BL	2	91	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6
BL	2	101	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7
BL	2	111	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8	8.4	8.4
BL	2	121	8.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
BL	2	131	8.5	8.5	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
BL	2	141	8.6	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
BL	2	151	9.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
BL	2	161	9.2	9.2	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
BL	2	171	9.3	9.3	9.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4
BL	2	181	9.4	9.4	9.4	9.4	9.4	9.5	9.5	9.5	9.5	9.5
BL	2	191	9.5	9.5	9.5	9.5	9.5	9.5	9.6	9.6	9.6	9.6
BL	2	201	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7
BL	2	211	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.8
BL	2	221	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
BL	2	231	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4
BL	2	241	10.4									
BL	3	242	13.2	13.2	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3
BL	3	252	13.3	13.3	13.3	13.4	13.4	13.4	13.4	13.4	13.4	13.4
BL	3	262	13.4	13.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
BL	3	272	13.5	13.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
BL	3	282	13.6	13.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
BL	3	292	13.7	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
BL	3	302	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
BL	3	312	13.9	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
BL	3	322	14.0	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
BL	3	332	14.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
BL	3	342	14.2	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
BL	3	352	14.3	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
BL	3	362	14.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
BL	3	372	14.5	14.6	14.6	14.6	14.6					
BL	4	377	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	387	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	397	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	407	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	417	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	427	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	4	437	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

BL	4	447	100.0	100.0	100.0							
CL	5	450	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CL	5	460	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CL	5	470	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CL	5	480	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CL	5	490	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CL	5	500	100.0	100.0	100.0	100.0	100.0	100.0				
PA	6	506	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PA	6	516	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PA	6	526	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PA	6	536	100.0	100.0	100.0							
BB	7	539	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SB	10	579	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	589	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	599	231.1	231.1	231.1	231.1	231.1	231.1				
SB	11	605	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	615	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	625	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	635	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	645	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	655	281.1	281.1	281.1	281.1						
BL	8	549	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	8	559	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BL	8	569	100.0	100.0								
SB	9	571	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

INTERMEDIATE REPORT

Reaeration Rate
per day

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.231	1.231	1.230	1.229	1.228	1.227	1.227	1.226	1.225	1.224
BL	1	11	1.224	1.223	1.222	1.221	1.221	1.220	1.219	1.218	1.218	1.217
BL	1	21	1.216	1.216	1.215	1.214	1.213	1.213	1.212	1.211	1.211	1.210
BL	1	31	1.209	1.209	1.208	1.207	1.207	1.206	1.205	1.205	1.204	1.203
BL	1	41	1.203	1.202	1.202	1.201	1.200	1.200	1.199	1.198	1.198	1.197
BL	1	51	1.197	1.196	1.195	1.195	1.194	1.194	1.193	1.193	1.192	1.191
BL	1	61	1.191	1.190	1.190	1.189	1.189	1.188	1.187	1.187	1.186	1.186
BL	2	71	1.579	1.578	1.577	1.576	1.574	1.573	1.572	1.571	1.570	1.569
BL	2	81	1.568	1.567	1.565	1.564	1.563	1.562	1.561	1.560	1.559	1.558
BL	2	91	1.557	1.556	1.555	1.553	1.552	1.551	1.550	1.549	1.548	1.547
BL	2	101	1.546	1.545	1.544	1.543	1.542	1.541	1.540	1.539	1.538	1.537
BL	2	111	1.536	1.535	1.534	1.533	1.532	1.531	1.530	1.529	1.469	1.468
BL	2	121	1.467	1.466	1.466	1.465	1.464	1.463	1.462	1.462	1.461	1.460
BL	2	131	1.459	1.459	1.458	1.457	1.456	1.456	1.455	1.454	1.453	1.453
BL	2	141	1.452	1.419	1.418	1.417	1.417	1.416	1.415	1.415	1.414	1.413
BL	2	151	1.413	1.412	1.412	1.411	1.410	1.410	1.409	1.408	1.408	1.407
BL	2	161	1.407	1.406	1.405	1.405	1.404	1.403	1.403	1.402	1.402	1.401

BL	2	171	1.400	1.400	1.399	1.399	1.398	1.397	1.397	1.396	1.396	1.395
BL	2	181	1.394	1.394	1.393	1.393	1.392	1.391	1.391	1.390	1.390	1.389
BL	2	191	1.389	1.388	1.387	1.387	1.386	1.386	1.385	1.385	1.384	1.383
BL	2	201	1.383	1.382	1.382	1.381	1.381	1.380	1.380	1.379	1.378	1.378
BL	2	211	1.377	1.377	1.376	1.376	1.375	1.375	1.374	1.374	1.373	1.373
BL	2	221	1.372	1.371	1.371	1.370	1.370	1.369	1.369	1.368	1.368	1.367
BL	2	231	1.340	1.340	1.339	1.339	1.338	1.338	1.337	1.337	1.336	1.336
BL	2	241	1.336									
BL	3	242	1.099	1.099	1.098	1.098	1.098	1.098	1.098	1.097	1.097	1.097
BL	3	252	1.097	1.096	1.096	1.096	1.096	1.096	1.095	1.095	1.095	1.095
BL	3	262	1.095	1.094	1.094	1.094	1.094	1.093	1.093	1.093	1.093	1.093
BL	3	272	1.092	1.092	1.092	1.092	1.092	1.091	1.091	1.091	1.091	1.091
BL	3	282	1.090	1.090	1.090	1.090	1.090	1.089	1.089	1.089	1.089	1.089
BL	3	292	1.088	1.088	1.088	1.088	1.088	1.087	1.087	1.087	1.087	1.087
BL	3	302	1.086	1.086	1.086	1.086	1.086	1.086	1.085	1.085	1.085	1.085
BL	3	312	1.085	1.084	1.084	1.084	1.084	1.084	1.084	1.083	1.083	1.083
BL	3	322	1.083	1.083	1.082	1.082	1.082	1.082	1.082	1.082	1.081	1.081
BL	3	332	1.081	1.081	1.081	1.081	1.080	1.080	1.080	1.080	1.080	1.080
BL	3	342	1.079	1.079	1.079	1.079	1.079	1.079	1.078	1.078	1.078	1.078
BL	3	352	1.078	1.078	1.077	1.077	1.077	1.077	1.077	1.077	1.076	1.076
BL	3	362	1.076	1.076	1.076	1.076	1.075	1.075	1.075	1.075	1.075	1.075
BL	3	372	1.075	1.074	1.074	1.074	1.074					
BL	4	377	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
BL	4	387	0.090	0.090	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
BL	4	397	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
BL	4	407	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
BL	4	417	0.091	0.091	0.091	0.091	0.091	0.091	0.092	0.092	0.092	0.092
BL	4	427	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
BL	4	437	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
BL	4	447	0.092	0.092	0.092							
CL	5	450	0.092	0.092	0.092	0.092	0.092	0.093	0.093	0.093	0.093	0.093
CL	5	460	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
CL	5	470	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.094	0.094
CL	5	480	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
CL	5	490	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
CL	5	500	0.095	0.095	0.095	0.095	0.095	0.095				
PA	6	506	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
PA	6	516	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
PA	6	526	0.096	0.096	0.096	0.097	0.097	0.097	0.097	0.097	0.097	0.097
PA	6	536	0.097	0.097	0.097							
BB	7	539	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
SB	10	579	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
SB	10	589	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.211	0.211
SB	10	599	0.211	0.211	0.211	0.211	0.211	0.211				
SB	11	605	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
SB	11	615	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
SB	11	625	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
SB	11	635	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
SB	11	645	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
SB	11	655	0.211	0.211	0.211	0.211						
BL	8	549	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096

BL	8	559	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
BL	8	569	0.096	0.096								
SB	9	571	0.096	0.096	0.096	0.096	0.097	0.097	0.097	0.097		

INTERMEDIATE REPORT

BOD Decay Rate
per day

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	11	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	21	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	31	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	41	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	51	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	1	61	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	71	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	81	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	91	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	101	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	111	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	121	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	131	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	141	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	151	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	161	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	171	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	181	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	191	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BL	2	201	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08
BL	2	211	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	2	221	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	2	231	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	2	241	0.08									
BL	3	242	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	252	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	262	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	272	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	282	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	292	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	302	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	312	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	322	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	332	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	342	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	352	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	362	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	3	372	0.08	0.08	0.08	0.08	0.08					

BL	4	377	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	387	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	397	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	407	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	417	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	427	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	437	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	4	447	0.08	0.08	0.09							
CL	5	450	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CL	5	460	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CL	5	470	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CL	5	480	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CL	5	490	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CL	5	500	0.09	0.09	0.09	0.09	0.09	0.09				
PA	6	506	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
PA	6	516	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
PA	6	526	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
PA	6	536	0.10	0.10	0.10							
BB	7	539	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	579	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	589	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	599	0.10	0.10	0.10	0.10	0.10	0.10				
SB	11	605	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	615	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	625	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	635	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	645	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	655	0.10	0.10	0.10	0.10						
BL	8	549	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	8	559	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	8	569	0.13	0.13								
SB	9	571	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		

INTERMEDIATE REPORT
BOD Settling Rate
per day

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				

SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	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 Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	1	11	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
BL	1	21	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	31	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	41	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	51	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	61	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	71	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	81	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	91	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	101	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	111	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	121	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	131	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	141	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	151	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	161	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	171	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	181	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	191	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	201	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	211	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	221	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	231	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	2	241	0.14									
BL	3	242	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	3	252	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	3	262	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	3	272	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	3	282	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	292	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	302	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

BL	3	312	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	322	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	332	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	342	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	352	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	362	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BL	3	372	0.15	0.15	0.15	0.15	0.15					
BL	4	377	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	387	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	397	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	407	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	417	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	427	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	437	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BL	4	447	0.16	0.16	0.16							
CL	5	450	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
CL	5	460	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17
CL	5	470	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CL	5	480	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CL	5	490	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CL	5	500	0.17	0.17	0.17	0.17	0.17	0.17				
PA	6	506	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
PA	6	516	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18
PA	6	526	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19
PA	6	536	0.19	0.20	0.20							
BB	7	539	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18
SB	10	579	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SB	10	589	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18
SB	10	599	0.18	0.18	0.18	0.18	0.18	0.18				
SB	11	605	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
SB	11	615	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SB	11	625	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SB	11	635	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SB	11	645	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SB	11	655	0.17	0.17	0.17	0.17						
BL	8	549	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	8	559	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	8	569	0.20	0.20								
SB	9	571	0.20	0.20	0.20	0.20	0.20	0.19	0.18	0.16		

INTERMEDIATE REPORT
Sediment Oxygen Demand
g/m²/d

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	3.22	3.23	3.23	3.24	3.24	3.24	3.25	3.25	3.25	3.26
BL	1	11	3.26	3.27	3.27	3.27	3.28	3.28	3.29	3.29	3.29	3.30
BL	1	21	3.30	3.30	3.31	3.31	3.32	3.32	3.32	3.33	3.33	3.34

BL	1	31	3.34	3.34	3.35	3.35	3.36	3.36	3.36	3.37	3.37	3.38
BL	1	41	3.38	3.38	3.39	3.39	3.39	3.40	3.40	3.41	3.41	3.41
BL	1	51	3.42	3.42	3.43	3.43	3.43	3.44	3.44	3.45	3.45	3.45
BL	1	61	3.46	3.46	3.47	3.47	3.48	3.48	3.48	3.49	3.49	3.50
BL	2	71	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
BL	2	81	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
BL	2	91	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
BL	2	101	3.23	3.23	3.23	3.23	3.23	3.24	3.24	3.24	3.24	3.24
BL	2	111	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
BL	2	121	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
BL	2	131	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
BL	2	141	3.24	3.24	3.24	3.24	3.24	3.24	3.25	3.25	3.25	3.25
BL	2	151	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
BL	2	161	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
BL	2	171	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
BL	2	181	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.26	3.26
BL	2	191	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
BL	2	201	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
BL	2	211	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
BL	2	221	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
BL	2	231	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27
BL	2	241	3.27									
BL	3	242	3.95	3.95	3.96	3.96	3.96	3.96	3.97	3.97	3.97	3.97
BL	3	252	3.98	3.98	3.98	3.98	3.99	3.99	3.99	3.99	4.00	4.00
BL	3	262	4.00	4.01	4.01	4.01	4.01	4.02	4.02	4.02	4.02	4.03
BL	3	272	4.03	4.03	4.03	4.04	4.04	4.04	4.04	4.05	4.05	4.05
BL	3	282	4.06	4.06	4.06	4.06	4.07	4.07	4.07	4.07	4.08	4.08
BL	3	292	4.08	4.08	4.09	4.09	4.09	4.10	4.10	4.10	4.10	4.11
BL	3	302	4.11	4.11	4.11	4.12	4.12	4.12	4.12	4.13	4.13	4.13
BL	3	312	4.14	4.14	4.14	4.14	4.15	4.15	4.15	4.15	4.16	4.16
BL	3	322	4.16	4.17	4.17	4.17	4.17	4.18	4.18	4.18	4.18	4.19
BL	3	332	4.19	4.19	4.20	4.20	4.20	4.20	4.21	4.21	4.21	4.21
BL	3	342	4.22	4.22	4.22	4.23	4.23	4.23	4.23	4.24	4.24	4.24
BL	3	352	4.25	4.25	4.25	4.25	4.26	4.26	4.26	4.26	4.27	4.27
BL	3	362	4.27	4.28	4.28	4.28	4.28	4.29	4.29	4.29	4.30	4.30
BL	3	372	4.30	4.30	4.31	4.31	4.31					
BL	4	377	3.28	3.28	3.28	3.29	3.29	3.29	3.30	3.30	3.30	3.31
BL	4	387	3.31	3.32	3.32	3.32	3.33	3.33	3.33	3.34	3.34	3.35
BL	4	397	3.35	3.35	3.36	3.36	3.36	3.37	3.37	3.38	3.38	3.38
BL	4	407	3.39	3.39	3.39	3.40	3.40	3.41	3.41	3.41	3.42	3.42
BL	4	417	3.43	3.43	3.43	3.44	3.44	3.44	3.45	3.45	3.46	3.46
BL	4	427	3.46	3.47	3.47	3.48	3.48	3.48	3.49	3.49	3.50	3.50
BL	4	437	3.50	3.51	3.51	3.51	3.52	3.52	3.53	3.53	3.53	3.54
BL	4	447	3.54	3.55	3.55							
CL	5	450	2.59	2.59	2.60	2.60	2.60	2.61	2.61	2.62	2.62	2.63
CL	5	460	2.63	2.63	2.64	2.64	2.65	2.65	2.66	2.66	2.67	2.67
CL	5	470	2.68	2.68	2.68	2.69	2.69	2.70	2.70	2.71	2.71	2.72
CL	5	480	2.72	2.73	2.73	2.73	2.74	2.74	2.75	2.75	2.76	2.76
CL	5	490	2.77	2.77	2.78	2.78	2.79	2.79	2.80	2.80	2.80	2.81
CL	5	500	2.81	2.82	2.82	2.83	2.83	2.84				
PA	6	506	4.45	4.46	4.47	4.49	4.50	4.51	4.52	4.54	4.55	4.56

PA	6	516	4.58	4.59	4.60	4.62	4.63	4.64	4.66	4.67	4.68	4.70
PA	6	526	4.71	4.72	4.74	4.75	4.76	4.78	4.79	4.80	4.82	4.83
PA	6	536	4.85	4.86	4.87							
BB	7	539	12.66	12.64	12.62	12.61	12.59	12.58	12.56	12.54	12.53	12.51
SB	10	579	6.73	6.73	6.73	6.72	6.72	6.72	6.71	6.71	6.71	6.71
SB	10	589	6.70	6.70	6.70	6.69	6.69	6.69	6.68	6.68	6.68	6.67
SB	10	599	6.67	6.67	6.66	6.66	6.66	6.65				
SB	11	605	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
SB	11	615	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
SB	11	625	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
SB	11	635	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
SB	11	645	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
SB	11	655	7.70	7.70	7.70	7.70						
BL	8	549	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05
BL	8	559	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05
BL	8	569	12.05	12.05								
SB	9	571	7.36	7.39	7.43	7.46	7.50	7.53	7.57	7.60		

CONDENSED CAPSULE SUMMARY FOR Black Lake Bayou

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	0.08300	23.40	0.00	4.20	2.56	0.00	1.38	0.22	76.00							
125.40	0.16653	23.42	0.00	4.50	2.58	0.00	1.39	0.22	75.20	1.23	0.07	0.00	0.00	0.00	0.12	3.22
125.20	0.16707	23.44	0.00	4.76	2.58	0.00	1.39	0.22	74.40	1.23	0.07	0.00	0.00	0.00	0.12	3.23
125.00	0.16760	23.46	0.00	4.99	2.58	0.00	1.39	0.22	73.60	1.23	0.07	0.00	0.00	0.00	0.13	3.23
124.80	0.16814	23.47	0.00	5.19	2.58	0.00	1.39	0.22	72.80	1.23	0.07	0.00	0.00	0.00	0.13	3.24
124.60	0.16867	23.49	0.00	5.37	2.57	0.00	1.39	0.22	72.00	1.23	0.07	0.00	0.00	0.00	0.13	3.24
124.40	0.16921	23.51	0.00	5.52	2.57	0.00	1.39	0.22	71.20	1.23	0.07	0.00	0.00	0.00	0.13	3.24
124.20	0.16974	23.53	0.00	5.65	2.57	0.00	1.39	0.22	70.40	1.23	0.07	0.00	0.00	0.00	0.13	3.25
124.00	0.17027	23.55	0.00	5.76	2.57	0.00	1.39	0.22	69.60	1.23	0.07	0.00	0.00	0.00	0.13	3.25
123.80	0.17081	23.57	0.00	5.86	2.57	0.00	1.39	0.22	68.80	1.23	0.07	0.00	0.00	0.00	0.13	3.25
123.60	0.17134	23.59	0.00	5.94	2.57	0.00	1.39	0.22	68.00	1.22	0.07	0.00	0.00	0.00	0.13	3.26
123.40	0.17188	23.60	0.00	6.02	2.57	0.00	1.39	0.22	67.20	1.22	0.07	0.00	0.00	0.00	0.13	3.26
123.20	0.17241	23.62	0.00	6.08	2.56	0.00	1.39	0.22	66.40	1.22	0.07	0.00	0.00	0.00	0.13	3.27
123.00	0.17295	23.64	0.00	6.13	2.56	0.00	1.39	0.22	65.60	1.22	0.07	0.00	0.00	0.00	0.13	3.27
122.80	0.17348	23.66	0.00	6.17	2.56	0.00	1.39	0.22	64.80	1.22	0.07	0.00	0.00	0.00	0.13	3.27
122.60	0.17401	23.68	0.00	6.21	2.56	0.00	1.39	0.22	64.00	1.22	0.07	0.00	0.00	0.00	0.13	3.28
122.40	0.17455	23.70	0.00	6.24	2.56	0.00	1.39	0.22	63.20	1.22	0.07	0.00	0.00	0.00	0.13	3.28
122.20	0.17508	23.72	0.00	6.26	2.56	0.00	1.39	0.22	62.40	1.22	0.07	0.00	0.00	0.00	0.13	3.29
122.00	0.17562	23.73	0.00	6.28	2.56	0.00	1.39	0.22	61.60	1.22	0.07	0.00	0.00	0.00	0.13	3.29
121.80	0.17615	23.75	0.00	6.29	2.55	0.00	1.39	0.22	60.80	1.22	0.07	0.00	0.00	0.00	0.14	3.29
121.60	0.17669	23.77	0.00	6.30	2.55	0.00	1.39	0.22	60.00	1.22	0.07	0.00	0.00	0.00	0.14	3.30
121.40	0.17722	23.79	0.00	6.31	2.55	0.00	1.39	0.22	59.20	1.22	0.07	0.00	0.00	0.00	0.14	3.30
121.20	0.17775	23.81	0.00	6.31	2.55	0.00	1.39	0.22	58.40	1.22	0.07	0.00	0.00	0.00	0.14	3.30
121.00	0.17829	23.83	0.00	6.31	2.55	0.00	1.39	0.22	57.60	1.21	0.07	0.00	0.00	0.00	0.14	3.31
120.80	0.17882	23.85	0.00	6.31	2.54	0.00	1.39	0.22	56.80	1.21	0.07	0.00	0.00	0.00	0.14	3.31
120.60	0.17936	23.86	0.00	6.31	2.54	0.00	1.40	0.22	56.00	1.21	0.07	0.00	0.00	0.00	0.14	3.32

120.40	0.17989	23.88	0.00	6.30	2.54	0.00	1.40	0.22	55.20	1.21	0.07	0.00	0.00	0.00	0.14	3.32
120.20	0.18043	23.90	0.00	6.30	2.54	0.00	1.40	0.22	54.40	1.21	0.07	0.00	0.00	0.00	0.14	3.32
120.00	0.18096	23.92	0.00	6.29	2.54	0.00	1.40	0.22	53.60	1.21	0.07	0.00	0.00	0.00	0.14	3.33
119.80	0.18149	23.94	0.00	6.28	2.54	0.00	1.40	0.22	52.80	1.21	0.07	0.00	0.00	0.00	0.14	3.33
119.60	0.18203	23.96	0.00	6.27	2.53	0.00	1.40	0.22	52.00	1.21	0.07	0.00	0.00	0.00	0.14	3.34
119.40	0.18256	23.98	0.00	6.26	2.53	0.00	1.40	0.22	51.20	1.21	0.07	0.00	0.00	0.00	0.14	3.34
119.20	0.18310	23.99	0.00	6.24	2.53	0.00	1.40	0.22	50.40	1.21	0.07	0.00	0.00	0.00	0.14	3.34
119.00	0.18363	24.01	0.00	6.23	2.53	0.00	1.40	0.22	49.60	1.21	0.07	0.00	0.00	0.00	0.14	3.35
118.80	0.18417	24.03	0.00	6.21	2.53	0.00	1.40	0.22	48.80	1.21	0.07	0.00	0.00	0.00	0.14	3.35
118.60	0.18470	24.05	0.00	6.20	2.52	0.00	1.40	0.22	48.00	1.21	0.07	0.00	0.00	0.00	0.14	3.36
118.40	0.18523	24.07	0.00	6.18	2.52	0.00	1.40	0.22	47.20	1.21	0.07	0.00	0.00	0.00	0.14	3.36
118.20	0.18577	24.09	0.00	6.17	2.52	0.00	1.40	0.22	46.40	1.21	0.07	0.00	0.00	0.00	0.14	3.36
118.00	0.18630	24.11	0.00	6.15	2.52	0.00	1.40	0.22	45.60	1.20	0.07	0.00	0.00	0.00	0.14	3.37
117.80	0.18684	24.12	0.00	6.13	2.52	0.00	1.40	0.22	44.80	1.20	0.07	0.00	0.00	0.00	0.14	3.37
117.60	0.18737	24.14	0.00	6.12	2.51	0.00	1.40	0.22	44.00	1.20	0.07	0.00	0.00	0.00	0.14	3.38
117.40	0.18791	24.16	0.00	6.10	2.51	0.00	1.40	0.22	43.20	1.20	0.07	0.00	0.00	0.00	0.14	3.38
117.20	0.18844	24.18	0.00	6.08	2.51	0.00	1.40	0.22	42.40	1.20	0.07	0.00	0.00	0.00	0.14	3.38
117.00	0.18897	24.20	0.00	6.06	2.51	0.00	1.40	0.22	41.60	1.20	0.07	0.00	0.00	0.00	0.14	3.39
116.80	0.18951	24.22	0.00	6.04	2.50	0.00	1.40	0.22	40.80	1.20	0.07	0.00	0.00	0.00	0.14	3.39
116.60	0.19004	24.24	0.00	6.02	2.50	0.00	1.40	0.22	40.00	1.20	0.07	0.00	0.00	0.00	0.14	3.39
116.40	0.19058	24.25	0.00	6.00	2.50	0.00	1.40	0.22	39.20	1.20	0.07	0.00	0.00	0.00	0.14	3.40
116.20	0.19111	24.27	0.00	5.98	2.50	0.00	1.40	0.22	38.40	1.20	0.07	0.00	0.00	0.00	0.14	3.40
116.00	0.19165	24.29	0.00	5.96	2.50	0.00	1.40	0.22	37.60	1.20	0.07	0.00	0.00	0.00	0.14	3.41
115.80	0.19218	24.31	0.00	5.94	2.49	0.00	1.40	0.22	36.80	1.20	0.07	0.00	0.00	0.00	0.14	3.41
115.60	0.19271	24.33	0.00	5.92	2.49	0.00	1.40	0.22	36.00	1.20	0.07	0.00	0.00	0.00	0.14	3.41
115.40	0.19325	24.35	0.00	5.90	2.49	0.00	1.40	0.22	35.20	1.20	0.07	0.00	0.00	0.00	0.14	3.42
115.20	0.19378	24.37	0.00	5.88	2.49	0.00	1.40	0.22	34.40	1.20	0.07	0.00	0.00	0.00	0.14	3.42
115.00	0.19432	24.38	0.00	5.86	2.48	0.00	1.40	0.22	33.60	1.20	0.07	0.00	0.00	0.00	0.14	3.43
114.80	0.19485	24.40	0.00	5.84	2.48	0.00	1.40	0.22	32.80	1.19	0.07	0.00	0.00	0.00	0.14	3.43
114.60	0.19539	24.42	0.00	5.82	2.48	0.00	1.40	0.22	32.00	1.19	0.07	0.00	0.00	0.00	0.14	3.43
114.40	0.19592	24.44	0.00	5.80	2.48	0.00	1.40	0.22	31.20	1.19	0.07	0.00	0.00	0.00	0.14	3.44
114.20	0.19645	24.46	0.00	5.78	2.47	0.00	1.40	0.22	30.40	1.19	0.07	0.00	0.00	0.00	0.14	3.44
114.00	0.19699	24.48	0.00	5.76	2.47	0.00	1.39	0.22	29.60	1.19	0.07	0.00	0.00	0.00	0.14	3.45
113.80	0.19752	24.50	0.00	5.74	2.47	0.00	1.39	0.22	28.80	1.19	0.07	0.00	0.00	0.00	0.14	3.45
113.60	0.19806	24.51	0.00	5.72	2.47	0.00	1.39	0.22	28.00	1.19	0.07	0.00	0.00	0.00	0.14	3.45
113.40	0.19859	24.53	0.00	5.70	2.47	0.00	1.39	0.22	27.20	1.19	0.07	0.00	0.00	0.00	0.14	3.46
113.20	0.19913	24.55	0.00	5.68	2.46	0.00	1.39	0.22	26.40	1.19	0.07	0.00	0.00	0.00	0.14	3.46
113.00	0.19966	24.57	0.00	5.66	2.46	0.00	1.39	0.22	25.60	1.19	0.07	0.00	0.00	0.00	0.14	3.47
112.80	0.20019	24.59	0.00	5.63	2.46	0.00	1.39	0.22	24.80	1.19	0.07	0.00	0.00	0.00	0.14	3.47
112.60	0.20073	24.61	0.00	5.61	2.46	0.00	1.39	0.22	24.00	1.19	0.07	0.00	0.00	0.00	0.14	3.48
112.40	0.20126	24.63	0.00	5.59	2.45	0.00	1.39	0.22	23.20	1.19	0.07	0.00	0.00	0.00	0.14	3.48
112.20	0.20180	24.64	0.00	5.57	2.45	0.00	1.39	0.22	22.40	1.19	0.07	0.00	0.00	0.00	0.14	3.48
112.00	0.20233	24.66	0.00	5.55	2.45	0.00	1.39	0.22	21.60	1.19	0.07	0.00	0.00	0.00	0.14	3.49
111.80	0.20287	24.68	0.00	5.53	2.45	0.00	1.39	0.22	20.80	1.19	0.07	0.00	0.00	0.00	0.14	3.49
111.60	0.20340	24.70	0.00	5.51	2.44	0.00	1.39	0.22	20.00	1.19	0.07	0.00	0.00	0.00	0.14	3.50
111.40	0.20393	24.70	0.00	5.53	2.45	0.00	1.39	0.22	20.00	1.58	0.07	0.00	0.00	0.00	0.14	3.23
111.20	0.20447	24.70	0.00	5.54	2.45	0.00	1.39	0.22	20.00	1.58	0.07	0.00	0.00	0.00	0.14	3.23
111.00	0.20500	24.70	0.00	5.56	2.45	0.00	1.39	0.22	20.00	1.58	0.07	0.00	0.00	0.00	0.14	3.23
110.80	0.20554	24.70	0.00	5.57	2.46	0.00	1.39	0.22	20.00	1.58	0.07	0.00	0.00	0.00	0.14	3.23
110.60	0.20607	24.71	0.00	5.58	2.46	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
110.40	0.20660	24.71	0.00	5.59	2.46	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23

110.20	0.20714	24.71	0.00	5.60	2.47	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
110.00	0.20767	24.71	0.00	5.61	2.47	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
109.80	0.20820	24.71	0.00	5.62	2.47	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
109.60	0.20874	24.71	0.00	5.63	2.48	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
109.40	0.20927	24.71	0.00	5.63	2.48	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
109.20	0.20981	24.71	0.00	5.64	2.48	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
109.00	0.21034	24.72	0.00	5.64	2.49	0.00	1.39	0.22	20.00	1.57	0.07	0.00	0.00	0.00	0.14	3.23
108.80	0.21087	24.72	0.00	5.65	2.49	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
108.60	0.21141	24.72	0.00	5.65	2.49	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
108.40	0.21194	24.72	0.00	5.66	2.50	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
108.20	0.21248	24.72	0.00	5.66	2.50	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
108.00	0.21301	24.72	0.00	5.66	2.50	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
107.80	0.21354	24.72	0.00	5.67	2.50	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
107.60	0.21408	24.72	0.00	5.67	2.51	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
107.40	0.21461	24.72	0.00	5.67	2.51	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
107.20	0.21515	24.73	0.00	5.67	2.51	0.00	1.39	0.22	20.00	1.56	0.07	0.00	0.00	0.00	0.14	3.23
107.00	0.21568	24.73	0.00	5.67	2.51	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
106.80	0.21621	24.73	0.00	5.68	2.52	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
106.60	0.21675	24.73	0.00	5.68	2.52	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
106.40	0.21728	24.73	0.00	5.68	2.52	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
106.20	0.21782	24.73	0.00	5.68	2.52	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
106.00	0.21835	24.73	0.00	5.68	2.53	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
105.80	0.21888	24.73	0.00	5.68	2.53	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
105.60	0.21942	24.74	0.00	5.69	2.53	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
105.40	0.21995	24.74	0.00	5.69	2.53	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
105.20	0.22049	24.74	0.00	5.69	2.53	0.00	1.39	0.22	20.00	1.55	0.07	0.00	0.00	0.00	0.14	3.23
105.00	0.22102	24.74	0.00	5.69	2.54	0.00	1.39	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.23
104.80	0.22155	24.74	0.00	5.69	2.54	0.00	1.39	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.23
104.60	0.22209	24.74	0.00	5.69	2.54	0.00	1.39	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.23
104.40	0.22262	24.74	0.00	5.69	2.54	0.00	1.38	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
104.20	0.22315	24.74	0.00	5.69	2.54	0.00	1.38	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
104.00	0.22369	24.74	0.00	5.69	2.55	0.00	1.38	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
103.80	0.22422	24.75	0.00	5.70	2.55	0.00	1.38	0.22	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
103.60	0.22476	24.75	0.00	5.70	2.55	0.00	1.38	0.21	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
103.40	0.22529	24.75	0.00	5.70	2.55	0.00	1.38	0.21	20.00	1.54	0.07	0.00	0.00	0.00	0.14	3.24
103.20	0.22582	24.75	0.00	5.70	2.55	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
103.00	0.22636	24.75	0.00	5.70	2.55	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
102.80	0.22689	24.75	0.00	5.70	2.56	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
102.60	0.22743	24.75	0.00	5.70	2.56	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
102.40	0.22796	24.75	0.00	5.70	2.56	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
102.20	0.22849	24.75	0.00	5.70	2.56	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
102.00	0.22903	24.76	0.00	5.70	2.56	0.00	1.38	0.21	20.00	1.53	0.07	0.00	0.00	0.00	0.14	3.24
101.80	0.26456	24.76	0.00	5.53	2.57	0.00	1.38	0.22	20.00	1.47	0.07	0.00	0.00	0.00	0.14	3.24
101.60	0.26510	24.76	0.00	5.56	2.57	0.00	1.38	0.22	20.00	1.47	0.07	0.00	0.00	0.00	0.14	3.24
101.40	0.26563	24.76	0.00	5.58	2.57	0.00	1.38	0.22	20.00	1.47	0.07	0.00	0.00	0.00	0.14	3.24
101.20	0.26616	24.76	0.00	5.60	2.57	0.00	1.38	0.22	20.00	1.47	0.07	0.00	0.00	0.00	0.14	3.24
101.00	0.26670	24.76	0.00	5.62	2.57	0.00	1.38	0.22	20.00	1.47	0.07	0.00	0.00	0.00	0.14	3.24
100.80	0.26723	24.76	0.00	5.63	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
100.60	0.26777	24.76	0.00	5.65	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
100.40	0.26830	24.77	0.00	5.66	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
100.20	0.26883	24.77	0.00	5.68	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24

100.00	0.26937	24.77	0.00	5.69	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
99.80	0.26990	24.77	0.00	5.70	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
99.60	0.27043	24.77	0.00	5.71	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
99.40	0.27097	24.77	0.00	5.71	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
99.20	0.27150	24.77	0.00	5.72	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
99.00	0.27204	24.77	0.00	5.73	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
98.80	0.27257	24.77	0.00	5.74	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
98.60	0.27310	24.78	0.00	5.74	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
98.40	0.27364	24.78	0.00	5.75	2.57	0.00	1.38	0.21	20.00	1.46	0.07	0.00	0.00	0.00	0.14	3.24
98.20	0.27417	24.78	0.00	5.75	2.57	0.00	1.38	0.21	20.00	1.45	0.07	0.00	0.00	0.00	0.14	3.24
98.00	0.27471	24.78	0.00	5.76	2.57	0.00	1.38	0.21	20.00	1.45	0.07	0.00	0.00	0.00	0.14	3.24
97.80	0.27524	24.78	0.00	5.76	2.57	0.00	1.37	0.21	20.00	1.45	0.07	0.00	0.00	0.00	0.14	3.24
97.60	0.27577	24.78	0.00	5.76	2.56	0.00	1.37	0.21	20.00	1.45	0.07	0.00	0.00	0.00	0.14	3.24
97.40	0.27631	24.78	0.00	5.77	2.56	0.00	1.37	0.21	20.00	1.45	0.07	0.00	0.00	0.00	0.14	3.24
97.20	0.30084	24.78	0.00	5.66	2.57	0.00	1.38	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.24
97.00	0.30138	24.79	0.00	5.68	2.57	0.00	1.38	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.24
96.80	0.30191	24.79	0.00	5.69	2.56	0.00	1.37	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.24
96.60	0.30244	24.79	0.00	5.71	2.56	0.00	1.37	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.24
96.40	0.30298	24.79	0.00	5.72	2.56	0.00	1.37	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.24
96.20	0.30351	24.79	0.00	5.73	2.56	0.00	1.37	0.21	20.00	1.42	0.07	0.00	0.00	0.00	0.14	3.25
96.00	0.30405	24.79	0.00	5.74	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
95.80	0.30458	24.79	0.00	5.75	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
95.60	0.30511	24.79	0.00	5.76	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
95.40	0.30565	24.79	0.00	5.77	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
95.20	0.30618	24.80	0.00	5.77	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
95.00	0.30671	24.80	0.00	5.78	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
94.80	0.30725	24.80	0.00	5.79	2.56	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
94.60	0.30778	24.80	0.00	5.79	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
94.40	0.30832	24.80	0.00	5.80	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
94.20	0.30885	24.80	0.00	5.80	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
94.00	0.30938	24.80	0.00	5.81	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
93.80	0.30992	24.80	0.00	5.81	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
93.60	0.31045	24.81	0.00	5.81	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
93.40	0.31099	24.81	0.00	5.82	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
93.20	0.31152	24.81	0.00	5.82	2.55	0.00	1.37	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
93.00	0.31205	24.81	0.00	5.82	2.55	0.00	1.36	0.21	20.00	1.41	0.07	0.00	0.00	0.00	0.14	3.25
92.80	0.31259	24.81	0.00	5.83	2.55	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
92.60	0.31312	24.81	0.00	5.83	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
92.40	0.31366	24.81	0.00	5.83	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
92.20	0.31419	24.81	0.00	5.83	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
92.00	0.31472	24.81	0.00	5.84	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
91.80	0.31526	24.82	0.00	5.84	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
91.60	0.31579	24.82	0.00	5.84	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
91.40	0.31633	24.82	0.00	5.84	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
91.20	0.31686	24.82	0.00	5.84	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
91.00	0.31739	24.82	0.00	5.85	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
90.80	0.31793	24.82	0.00	5.85	2.54	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
90.60	0.31846	24.82	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
90.40	0.31899	24.82	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
90.20	0.31953	24.83	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
90.00	0.32006	24.83	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25

89.80	0.32060	24.83	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
89.60	0.32113	24.83	0.00	5.85	2.53	0.00	1.36	0.21	20.00	1.40	0.07	0.00	0.00	0.00	0.14	3.25
89.40	0.32166	24.83	0.00	5.86	2.53	0.00	1.36	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
89.20	0.32220	24.83	0.00	5.86	2.53	0.00	1.36	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
89.00	0.32273	24.83	0.00	5.86	2.53	0.00	1.36	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
88.80	0.32327	24.83	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
88.60	0.32380	24.83	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
88.40	0.32433	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
88.20	0.32487	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
88.00	0.32540	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.25
87.80	0.32594	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
87.60	0.32647	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
87.40	0.32700	24.84	0.00	5.86	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
87.20	0.32754	24.84	0.00	5.87	2.52	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
87.00	0.32807	24.84	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
86.80	0.32861	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
86.60	0.32914	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
86.40	0.32967	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
86.20	0.33021	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.39	0.07	0.00	0.00	0.00	0.14	3.26
86.00	0.33074	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
85.80	0.33127	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
85.60	0.33181	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
85.40	0.33234	24.85	0.00	5.87	2.51	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
85.20	0.33288	24.85	0.00	5.87	2.50	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
85.00	0.33341	24.86	0.00	5.87	2.50	0.00	1.35	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
84.80	0.33394	24.86	0.00	5.87	2.50	0.00	1.34	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
84.60	0.33448	24.86	0.00	5.87	2.50	0.00	1.34	0.21	20.00	1.38	0.07	0.00	0.00	0.00	0.14	3.26
84.40	0.33501	24.86	0.00	5.88	2.50	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
84.20	0.33555	24.86	0.00	5.88	2.50	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
84.00	0.33608	24.86	0.00	5.88	2.50	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
83.80	0.33661	24.86	0.00	5.88	2.50	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
83.60	0.33715	24.86	0.00	5.88	2.50	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
83.40	0.33768	24.86	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
83.20	0.33822	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
83.00	0.33875	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
82.80	0.33928	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
82.60	0.33982	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.38	0.08	0.00	0.00	0.00	0.14	3.26
82.40	0.34035	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
82.20	0.34088	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
82.00	0.34142	24.87	0.00	5.88	2.49	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
81.80	0.34195	24.87	0.00	5.88	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
81.60	0.34249	24.88	0.00	5.88	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
81.40	0.34302	24.88	0.00	5.88	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
81.20	0.34355	24.88	0.00	5.89	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
81.00	0.34409	24.88	0.00	5.89	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
80.80	0.34462	24.88	0.00	5.89	2.48	0.00	1.34	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
80.60	0.34516	24.88	0.00	5.89	2.48	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
80.40	0.34569	24.88	0.00	5.89	2.48	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
80.20	0.34622	24.88	0.00	5.89	2.48	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
80.00	0.34676	24.88	0.00	5.89	2.47	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
79.80	0.34729	24.89	0.00	5.89	2.47	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26

79.60	0.34783	24.89	0.00	5.89	2.47	0.00	1.33	0.21	20.00	1.37	0.08	0.00	0.00	0.00	0.14	3.26
79.40	0.37536	24.89	0.00	5.78	2.48	0.00	1.34	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
79.20	0.37589	24.89	0.00	5.79	2.48	0.00	1.34	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
79.00	0.37643	24.89	0.00	5.81	2.48	0.00	1.34	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
78.80	0.37696	24.89	0.00	5.82	2.47	0.00	1.34	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
78.60	0.37750	24.89	0.00	5.83	2.47	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
78.40	0.37803	24.89	0.00	5.83	2.47	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
78.20	0.37856	24.90	0.00	5.84	2.47	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
78.00	0.37910	24.90	0.00	5.85	2.47	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
77.80	0.37963	24.90	0.00	5.86	2.47	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
77.60	0.38016	24.90	0.00	5.86	2.46	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
77.40	0.38070	24.90	0.00	5.87	2.46	0.00	1.33	0.21	20.00	1.34	0.08	0.00	0.00	0.00	0.14	3.27
77.20	0.38123	24.91	0.00	5.81	2.45	0.00	1.33	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.95
77.00	0.38177	24.92	0.00	5.76	2.45	0.00	1.34	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.95
76.80	0.38230	24.93	0.00	5.71	2.44	0.00	1.34	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.96
76.60	0.38283	24.94	0.00	5.66	2.43	0.00	1.34	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.96
76.40	0.38337	24.95	0.00	5.62	2.42	0.00	1.35	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.96
76.20	0.38390	24.96	0.00	5.58	2.41	0.00	1.35	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.96
76.00	0.38443	24.97	0.00	5.55	2.40	0.00	1.35	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.97
75.80	0.38497	24.98	0.00	5.51	2.39	0.00	1.36	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.97
75.60	0.38550	24.99	0.00	5.48	2.39	0.00	1.36	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.97
75.40	0.38603	25.00	0.00	5.46	2.38	0.00	1.36	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.97
75.20	0.38657	25.01	0.00	5.43	2.37	0.00	1.36	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.98
75.00	0.38710	25.02	0.00	5.41	2.36	0.00	1.37	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.98
74.80	0.38763	25.03	0.00	5.38	2.35	0.00	1.37	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.98
74.60	0.38817	25.05	0.00	5.36	2.35	0.00	1.37	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.98
74.40	0.38870	25.06	0.00	5.35	2.34	0.00	1.38	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.99
74.20	0.38923	25.07	0.00	5.33	2.33	0.00	1.38	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.99
74.00	0.38977	25.08	0.00	5.31	2.32	0.00	1.38	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.99
73.80	0.39030	25.09	0.00	5.30	2.31	0.00	1.38	0.21	20.00	1.10	0.08	0.00	0.00	0.00	0.14	3.99
73.60	0.39083	25.10	0.00	5.28	2.31	0.00	1.39	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.00
73.40	0.39137	25.11	0.00	5.27	2.30	0.00	1.39	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.00
73.20	0.39190	25.12	0.00	5.26	2.29	0.00	1.39	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.00
73.00	0.39243	25.13	0.00	5.25	2.28	0.00	1.40	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.01
72.80	0.39297	25.14	0.00	5.24	2.28	0.00	1.40	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.01
72.60	0.39350	25.15	0.00	5.23	2.27	0.00	1.40	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.01
72.40	0.39403	25.16	0.00	5.22	2.26	0.00	1.40	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.01
72.20	0.39457	25.17	0.00	5.21	2.25	0.00	1.41	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.02
72.00	0.39510	25.18	0.00	5.20	2.25	0.00	1.41	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.02
71.80	0.39563	25.19	0.00	5.20	2.24	0.00	1.41	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.02
71.60	0.39617	25.20	0.00	5.19	2.23	0.00	1.41	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.02
71.40	0.39670	25.21	0.00	5.18	2.22	0.00	1.42	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.03
71.20	0.39723	25.22	0.00	5.18	2.22	0.00	1.42	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.03
71.00	0.39777	25.23	0.00	5.17	2.21	0.00	1.42	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.03
70.80	0.39830	25.24	0.00	5.17	2.20	0.00	1.42	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.03
70.60	0.39883	25.25	0.00	5.16	2.20	0.00	1.43	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.04
70.40	0.39937	25.26	0.00	5.16	2.19	0.00	1.43	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.04
70.20	0.39990	25.27	0.00	5.15	2.18	0.00	1.43	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.04
70.00	0.40043	25.28	0.00	5.15	2.18	0.00	1.44	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.04
69.80	0.40097	25.29	0.00	5.14	2.17	0.00	1.44	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.05
69.60	0.40150	25.30	0.00	5.14	2.16	0.00	1.44	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.05

69.40	0.40203	25.31	0.00	5.14	2.15	0.00	1.44	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.05
69.20	0.40257	25.33	0.00	5.13	2.15	0.00	1.45	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.14	4.06
69.00	0.40310	25.34	0.00	5.13	2.14	0.00	1.45	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.06
68.80	0.40363	25.35	0.00	5.13	2.13	0.00	1.45	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.06
68.60	0.40417	25.36	0.00	5.12	2.13	0.00	1.45	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.06
68.40	0.40470	25.37	0.00	5.12	2.12	0.00	1.45	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.07
68.20	0.40523	25.38	0.00	5.12	2.12	0.00	1.46	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.07
68.00	0.40577	25.39	0.00	5.11	2.11	0.00	1.46	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.07
67.80	0.40630	25.40	0.00	5.11	2.10	0.00	1.46	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.07
67.60	0.40683	25.41	0.00	5.11	2.10	0.00	1.46	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.08
67.40	0.40737	25.42	0.00	5.11	2.09	0.00	1.47	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.08
67.20	0.40790	25.43	0.00	5.10	2.08	0.00	1.47	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.08
67.00	0.40843	25.44	0.00	5.10	2.08	0.00	1.47	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.08
66.80	0.40897	25.45	0.00	5.10	2.07	0.00	1.47	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.09
66.60	0.40950	25.46	0.00	5.10	2.06	0.00	1.48	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.09
66.40	0.41003	25.47	0.00	5.09	2.06	0.00	1.48	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.09
66.20	0.41057	25.48	0.00	5.09	2.05	0.00	1.48	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.10
66.00	0.41110	25.49	0.00	5.09	2.05	0.00	1.48	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.10
65.80	0.41163	25.50	0.00	5.09	2.04	0.00	1.49	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.10
65.60	0.41217	25.51	0.00	5.09	2.03	0.00	1.49	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.10
65.40	0.41270	25.52	0.00	5.08	2.03	0.00	1.49	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.11
65.20	0.41323	25.53	0.00	5.08	2.02	0.00	1.49	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.11
65.00	0.41377	25.54	0.00	5.08	2.02	0.00	1.49	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.11
64.80	0.41430	25.55	0.00	5.08	2.01	0.00	1.50	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.11
64.60	0.41483	25.56	0.00	5.07	2.00	0.00	1.50	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.12
64.40	0.41537	25.57	0.00	5.07	2.00	0.00	1.50	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.12
64.20	0.41590	25.58	0.00	5.07	1.99	0.00	1.50	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.12
64.00	0.41643	25.59	0.00	5.07	1.99	0.00	1.51	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.12
63.80	0.41697	25.61	0.00	5.07	1.98	0.00	1.51	0.21	20.00	1.09	0.08	0.00	0.00	0.00	0.15	4.13
63.60	0.41750	25.62	0.00	5.06	1.98	0.00	1.51	0.21	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.13
63.40	0.41803	25.63	0.00	5.06	1.97	0.00	1.51	0.21	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.13
63.20	0.41857	25.64	0.00	5.06	1.96	0.00	1.51	0.21	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.14
63.00	0.41910	25.65	0.00	5.06	1.96	0.00	1.52	0.21	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.14
62.80	0.41963	25.66	0.00	5.06	1.95	0.00	1.52	0.21	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.14
62.60	0.42017	25.67	0.00	5.05	1.95	0.00	1.52	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.14
62.40	0.42070	25.68	0.00	5.05	1.94	0.00	1.52	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.15
62.20	0.42123	25.69	0.00	5.05	1.94	0.00	1.52	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.15
62.00	0.42177	25.70	0.00	5.05	1.93	0.00	1.53	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.15
61.80	0.42230	25.71	0.00	5.05	1.93	0.00	1.53	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.15
61.60	0.42283	25.72	0.00	5.04	1.92	0.00	1.53	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.16
61.40	0.42337	25.73	0.00	5.04	1.92	0.00	1.53	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.16
61.20	0.42390	25.74	0.00	5.04	1.91	0.00	1.53	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.16
61.00	0.42443	25.75	0.00	5.04	1.91	0.00	1.54	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.17
60.80	0.42497	25.76	0.00	5.04	1.90	0.00	1.54	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.17
60.60	0.42550	25.77	0.00	5.04	1.89	0.00	1.54	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.17
60.40	0.42603	25.78	0.00	5.03	1.89	0.00	1.54	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.17
60.20	0.42657	25.79	0.00	5.03	1.88	0.00	1.54	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.18
60.00	0.42710	25.80	0.00	5.03	1.88	0.00	1.55	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.18
59.80	0.42763	25.81	0.00	5.03	1.87	0.00	1.55	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.18
59.60	0.42817	25.82	0.00	5.03	1.87	0.00	1.55	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.18
59.40	0.42870	25.83	0.00	5.02	1.86	0.00	1.55	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.19

59.20	0.42923	25.84	0.00	5.02	1.86	0.00	1.55	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.19
59.00	0.42977	25.85	0.00	5.02	1.85	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.19
58.80	0.43030	25.86	0.00	5.02	1.85	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.20
58.60	0.43083	25.87	0.00	5.02	1.84	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.20
58.40	0.43137	25.89	0.00	5.01	1.84	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.20
58.20	0.43190	25.90	0.00	5.01	1.84	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.20
58.00	0.43243	25.91	0.00	5.01	1.83	0.00	1.56	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.21
57.80	0.43297	25.92	0.00	5.01	1.83	0.00	1.57	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.21
57.60	0.43350	25.93	0.00	5.01	1.82	0.00	1.57	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.21
57.40	0.43403	25.94	0.00	5.00	1.82	0.00	1.57	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.21
57.20	0.43457	25.95	0.00	5.00	1.81	0.00	1.57	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.22
57.00	0.43510	25.96	0.00	5.00	1.81	0.00	1.57	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.22
56.80	0.43563	25.97	0.00	5.00	1.80	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.22
56.60	0.43617	25.98	0.00	5.00	1.80	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.23
56.40	0.43670	25.99	0.00	5.00	1.79	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.23
56.20	0.43723	26.00	0.00	4.99	1.79	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.23
56.00	0.43777	26.01	0.00	4.99	1.78	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.23
55.80	0.43830	26.02	0.00	4.99	1.78	0.00	1.58	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.24
55.60	0.43883	26.03	0.00	4.99	1.77	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.24
55.40	0.43937	26.04	0.00	4.99	1.77	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.24
55.20	0.43990	26.05	0.00	4.98	1.77	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.25
55.00	0.44043	26.06	0.00	4.98	1.76	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.25
54.80	0.44097	26.07	0.00	4.98	1.76	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.25
54.60	0.44150	26.08	0.00	4.98	1.75	0.00	1.59	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.25
54.40	0.44203	26.09	0.00	4.98	1.75	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.26
54.20	0.44257	26.10	0.00	4.97	1.74	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.26
54.00	0.44310	26.11	0.00	4.97	1.74	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.26
53.80	0.44363	26.12	0.00	4.97	1.74	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.26
53.60	0.44417	26.13	0.00	4.97	1.73	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.27
53.40	0.44470	26.14	0.00	4.97	1.73	0.00	1.60	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.27
53.20	0.44523	26.15	0.00	4.96	1.72	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.27
53.00	0.44577	26.17	0.00	4.96	1.72	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.28
52.80	0.44630	26.18	0.00	4.96	1.71	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.28
52.60	0.44683	26.19	0.00	4.96	1.71	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.28
52.40	0.44737	26.20	0.00	4.96	1.71	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.28
52.20	0.44790	26.21	0.00	4.95	1.70	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.29
52.00	0.44843	26.22	0.00	4.95	1.70	0.00	1.61	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.29
51.80	0.44897	26.23	0.00	4.95	1.69	0.00	1.62	0.22	20.00	1.08	0.08	0.00	0.00	0.00	0.15	4.29
51.60	0.44950	26.24	0.00	4.95	1.69	0.00	1.62	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.30
51.40	0.45003	26.25	0.00	4.95	1.69	0.00	1.62	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.30
51.20	0.45057	26.26	0.00	4.94	1.68	0.00	1.62	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.30
51.00	0.45110	26.27	0.00	4.94	1.68	0.00	1.62	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.30
50.80	0.45163	26.28	0.00	4.94	1.67	0.00	1.62	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.31
50.60	0.45217	26.29	0.00	4.94	1.67	0.00	1.63	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.31
50.40	0.45270	26.30	0.00	4.94	1.67	0.00	1.63	0.22	20.00	1.07	0.08	0.00	0.00	0.00	0.15	4.31
50.20	0.45323	26.32	0.00	5.07	1.89	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.15	3.28
50.00	0.45377	26.34	0.00	5.18	2.10	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.28
49.80	0.45430	26.35	0.00	5.28	2.30	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.28
49.60	0.45484	26.37	0.00	5.37	2.49	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.29
49.40	0.45537	26.39	0.00	5.45	2.68	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.29
49.20	0.45591	26.41	0.00	5.51	2.86	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.29

49.00	0.45644	26.42	0.00	5.57	3.03	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.30
48.80	0.45697	26.44	0.00	5.61	3.19	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.30
48.60	0.45751	26.46	0.00	5.65	3.35	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.30
48.40	0.45804	26.48	0.00	5.68	3.50	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.31
48.20	0.45858	26.50	0.00	5.70	3.64	0.00	1.64	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.31
48.00	0.55111	26.51	0.00	5.48	3.59	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.32
47.80	0.55165	26.53	0.00	5.50	3.71	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.32
47.60	0.55218	26.55	0.00	5.52	3.82	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.32
47.40	0.55271	26.57	0.00	5.54	3.93	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.33
47.20	0.55325	26.58	0.00	5.55	4.03	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.33
47.00	0.55378	26.60	0.00	5.55	4.13	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.33
46.80	0.55432	26.62	0.00	5.56	4.23	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.34
46.60	0.55485	26.64	0.00	5.56	4.32	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.34
46.40	0.55538	26.66	0.00	5.55	4.41	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.35
46.20	0.55592	26.67	0.00	5.55	4.50	0.00	1.60	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.35
46.00	0.55645	26.69	0.00	5.54	4.59	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.35
45.80	0.55699	26.71	0.00	5.53	4.67	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.36
45.60	0.55752	26.73	0.00	5.51	4.75	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.36
45.40	0.55806	26.75	0.00	5.50	4.82	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.36
45.20	0.55859	26.76	0.00	5.48	4.89	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.37
45.00	0.55912	26.78	0.00	5.46	4.96	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.37
44.80	0.55966	26.80	0.00	5.44	5.03	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.38
44.60	0.56019	26.82	0.00	5.42	5.10	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.38
44.40	0.56073	26.83	0.00	5.39	5.16	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.38
44.20	0.56126	26.85	0.00	5.37	5.22	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.39
44.00	0.56180	26.87	0.00	5.34	5.28	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.39
43.80	0.56233	26.89	0.00	5.31	5.33	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.39
43.60	0.56286	26.91	0.00	5.29	5.39	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.40
43.40	0.56340	26.92	0.00	5.26	5.44	0.00	1.61	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.40
43.20	0.56393	26.94	0.00	5.23	5.49	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.41
43.00	0.56447	26.96	0.00	5.20	5.54	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.41
42.80	0.56500	26.98	0.00	5.17	5.58	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.41
42.60	0.56554	26.99	0.00	5.14	5.63	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.42
42.40	0.56607	27.01	0.00	5.10	5.67	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.42
42.20	0.56660	27.03	0.00	5.07	5.71	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.43
42.00	0.56714	27.05	0.00	5.04	5.75	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.43
41.80	0.56767	27.07	0.00	5.01	5.79	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.43
41.60	0.56821	27.08	0.00	4.97	5.82	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.44
41.40	0.56874	27.10	0.00	4.94	5.86	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.44
41.20	0.56927	27.12	0.00	4.91	5.89	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.44
41.00	0.56981	27.14	0.00	4.88	5.92	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.45
40.80	0.57034	27.15	0.00	4.84	5.96	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.45
40.60	0.57088	27.17	0.00	4.81	5.99	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.46
40.40	0.57141	27.19	0.00	4.78	6.01	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.46
40.20	0.57195	27.21	0.00	4.75	6.04	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.46
40.00	0.57248	27.23	0.00	4.71	6.07	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.47
39.80	0.57301	27.24	0.00	4.68	6.09	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.47
39.60	0.57355	27.26	0.00	4.65	6.12	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.48
39.40	0.57408	27.28	0.00	4.62	6.14	0.00	1.62	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.48
39.20	0.57462	27.30	0.00	4.59	6.16	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.48
39.00	0.57515	27.32	0.00	4.56	6.19	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.49

38.80	0.57569	27.33	0.00	4.53	6.21	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.49
38.60	0.57622	27.35	0.00	4.50	6.23	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.50
38.40	0.57675	27.37	0.00	4.47	6.24	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.50
38.20	0.57729	27.39	0.00	4.44	6.26	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.50
38.00	0.57782	27.40	0.00	4.41	6.28	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.51
37.80	0.57836	27.42	0.00	4.38	6.30	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.51
37.60	0.57889	27.44	0.00	4.35	6.31	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.51
37.40	0.57943	27.46	0.00	4.32	6.33	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.52
37.20	0.57996	27.48	0.00	4.29	6.34	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.52
37.00	0.58049	27.49	0.00	4.27	6.35	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.53
36.80	0.58103	27.51	0.00	4.24	6.37	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.53
36.60	0.58156	27.53	0.00	4.21	6.38	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.53
36.40	0.58210	27.55	0.00	4.19	6.39	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.54
36.20	0.58263	27.56	0.00	4.16	6.40	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.54
36.00	0.58316	27.58	0.00	4.13	6.41	0.00	1.63	0.23	20.00	0.09	0.08	0.00	0.00	0.00	0.16	3.55
35.80	0.58370	27.60	0.00	4.11	6.42	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	3.55
35.60	0.58423	27.63	0.00	4.12	6.47	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.59
35.40	0.58477	27.65	0.00	4.13	6.51	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.59
35.20	0.58530	27.68	0.00	4.14	6.55	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.60
35.00	0.58583	27.71	0.00	4.14	6.59	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.60
34.80	0.58637	27.73	0.00	4.15	6.62	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.60
34.60	0.58690	27.76	0.00	4.15	6.66	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.61
34.40	0.58744	27.79	0.00	4.15	6.69	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.61
34.20	0.58797	27.81	0.00	4.15	6.72	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.62
34.00	0.58850	27.84	0.00	4.15	6.75	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.62
33.80	0.58904	27.87	0.00	4.14	6.78	0.00	1.63	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.63
33.60	0.58957	27.89	0.00	4.14	6.81	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.63
33.40	0.59011	27.92	0.00	4.13	6.84	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.63
33.20	0.59064	27.95	0.00	4.13	6.86	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.64
33.00	0.59117	27.98	0.00	4.12	6.89	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.64
32.80	0.59171	28.00	0.00	4.11	6.91	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.65
32.60	0.59224	28.03	0.00	4.10	6.93	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.65
32.40	0.59278	28.06	0.00	4.09	6.95	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.16	2.66
32.20	0.59331	28.08	0.00	4.09	6.97	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.66
32.00	0.59384	28.11	0.00	4.07	6.99	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.67
31.80	0.59438	28.14	0.00	4.06	7.01	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.67
31.60	0.59491	28.16	0.00	4.05	7.03	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.68
31.40	0.59545	28.19	0.00	4.04	7.05	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.68
31.20	0.59598	28.22	0.00	4.03	7.06	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.68
31.00	0.59651	28.24	0.00	4.02	7.08	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.69
30.80	0.59705	28.27	0.00	4.01	7.09	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.69
30.60	0.59758	28.30	0.00	3.99	7.10	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.70
30.40	0.59812	28.32	0.00	3.98	7.12	0.00	1.62	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.70
30.20	0.59865	28.35	0.00	3.97	7.13	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.71
30.00	0.59918	28.38	0.00	3.95	7.14	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.71
29.80	0.59972	28.40	0.00	3.94	7.15	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.72
29.60	0.60025	28.43	0.00	3.93	7.16	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.72
29.40	0.60079	28.46	0.00	3.92	7.17	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.73
29.20	0.60132	28.48	0.00	3.90	7.18	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.73
29.00	0.60185	28.51	0.00	3.89	7.18	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.73
28.80	0.60239	28.54	0.00	3.88	7.19	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.74

28.60	0.60292	28.56	0.00	3.86	7.20	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.74
28.40	0.60345	28.59	0.00	3.85	7.20	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.75
28.20	0.60399	28.62	0.00	3.84	7.21	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.75
28.00	0.60452	28.64	0.00	3.82	7.22	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.76
27.80	0.60506	28.67	0.00	3.81	7.22	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.76
27.60	0.60559	28.70	0.00	3.80	7.22	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.77
27.40	0.60612	28.73	0.00	3.79	7.23	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.77
27.20	0.60666	28.75	0.00	3.77	7.23	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.78
27.00	0.60719	28.78	0.00	3.76	7.23	0.00	1.61	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.78
26.80	0.60773	28.81	0.00	3.75	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.79
26.60	0.60826	28.83	0.00	3.74	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.79
26.40	0.60879	28.86	0.00	3.72	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.80
26.20	0.60933	28.89	0.00	3.71	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.80
26.00	0.60986	28.91	0.00	3.70	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.80
25.80	0.61040	28.94	0.00	3.69	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.81
25.60	0.61093	28.97	0.00	3.68	7.25	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.81
25.40	0.61146	28.99	0.00	3.67	7.25	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.82
25.20	0.61200	29.02	0.00	3.66	7.25	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.82
25.00	0.61253	29.05	0.00	3.65	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.83
24.80	0.61307	29.07	0.00	3.63	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.83
24.60	0.30660	29.10	0.00	3.62	7.24	0.00	1.60	0.23	20.00	0.09	0.09	0.00	0.00	0.00	0.17	2.84
24.40	0.30660	29.15	0.00	3.50	7.31	0.00	1.60	0.23	20.42	0.09	0.09	0.00	0.00	0.00	0.17	4.45
24.20	0.30660	29.19	0.00	3.39	7.37	0.00	1.60	0.23	20.85	0.09	0.09	0.00	0.00	0.00	0.17	4.46
24.00	0.30660	29.24	0.00	3.29	7.43	0.00	1.60	0.23	21.27	0.09	0.09	0.00	0.00	0.00	0.17	4.47
23.80	0.30660	29.28	0.00	3.20	7.48	0.00	1.60	0.23	21.70	0.10	0.09	0.00	0.00	0.00	0.17	4.49
23.60	0.30660	29.33	0.00	3.13	7.53	0.00	1.60	0.23	22.12	0.10	0.09	0.00	0.00	0.00	0.17	4.50
23.40	0.30660	29.37	0.00	3.07	7.58	0.00	1.60	0.23	22.55	0.10	0.09	0.00	0.00	0.00	0.17	4.51
23.20	0.30660	29.42	0.00	3.02	7.62	0.00	1.60	0.23	22.97	0.10	0.09	0.00	0.00	0.00	0.17	4.52
23.00	0.30660	29.46	0.00	2.98	7.65	0.00	1.59	0.23	23.39	0.10	0.09	0.00	0.00	0.00	0.17	4.54
22.80	0.30660	29.51	0.00	2.95	7.69	0.00	1.59	0.23	23.82	0.10	0.09	0.00	0.00	0.00	0.17	4.55
22.60	0.30660	29.55	0.00	2.93	7.72	0.00	1.59	0.23	24.24	0.10	0.09	0.00	0.00	0.00	0.17	4.56
22.40	0.30660	29.60	0.00	2.92	7.74	0.00	1.59	0.23	24.67	0.10	0.09	0.00	0.00	0.00	0.17	4.58
22.20	0.30660	29.65	0.00	2.91	7.77	0.00	1.59	0.23	25.09	0.10	0.09	0.00	0.00	0.00	0.17	4.59
22.00	0.30660	29.69	0.00	2.92	7.79	0.00	1.59	0.23	25.52	0.10	0.09	0.00	0.00	0.00	0.17	4.60
21.80	0.30660	29.74	0.00	2.93	7.81	0.00	1.59	0.23	25.94	0.10	0.09	0.00	0.00	0.00	0.17	4.62
21.60	0.30660	29.78	0.00	2.95	7.82	0.00	1.59	0.23	26.36	0.10	0.09	0.00	0.00	0.00	0.17	4.63
21.40	0.30660	29.83	0.00	2.98	7.84	0.00	1.59	0.23	26.79	0.10	0.09	0.00	0.00	0.00	0.17	4.64
21.20	0.30660	29.87	0.00	3.02	7.85	0.00	1.59	0.23	27.21	0.10	0.09	0.00	0.00	0.00	0.17	4.66
21.00	0.30660	29.92	0.00	3.06	7.86	0.00	1.59	0.23	27.64	0.10	0.09	0.00	0.00	0.00	0.17	4.67
20.80	0.30660	29.96	0.00	3.11	7.87	0.00	1.59	0.23	28.06	0.10	0.09	0.00	0.00	0.00	0.17	4.68
20.60	0.30660	30.01	0.00	3.16	7.88	0.00	1.59	0.23	28.48	0.10	0.10	0.00	0.00	0.00	0.18	4.70
20.40	0.30660	30.05	0.00	3.22	7.88	0.00	1.59	0.23	28.91	0.10	0.10	0.00	0.00	0.00	0.18	4.71
20.20	0.30660	30.10	0.00	3.28	7.89	0.00	1.59	0.22	29.33	0.10	0.10	0.00	0.00	0.00	0.18	4.72
20.00	0.30660	30.15	0.00	3.35	7.89	0.00	1.59	0.22	29.76	0.10	0.10	0.00	0.00	0.00	0.18	4.74
19.80	0.30660	30.19	0.00	3.43	7.89	0.00	1.59	0.22	30.18	0.10	0.10	0.00	0.00	0.00	0.18	4.75
19.60	0.30660	30.24	0.00	3.51	7.89	0.00	1.58	0.22	30.61	0.10	0.10	0.00	0.00	0.00	0.18	4.76
19.40	0.30660	30.28	0.00	3.59	7.89	0.00	1.58	0.22	31.03	0.10	0.10	0.00	0.00	0.00	0.19	4.78
19.20	0.30660	30.33	0.00	3.68	7.89	0.00	1.58	0.22	31.45	0.10	0.10	0.00	0.00	0.00	0.19	4.79
19.00	0.30660	30.37	0.00	3.77	7.88	0.00	1.58	0.22	31.88	0.10	0.10	0.00	0.00	0.00	0.19	4.80
18.80	0.30660	30.42	0.00	3.87	7.88	0.00	1.58	0.21	32.30	0.10	0.10	0.00	0.00	0.00	0.19	4.82
18.60	0.30660	30.46	0.00	3.97	7.87	0.00	1.58	0.21	32.73	0.10	0.10	0.00	0.00	0.00	0.19	4.83

18.40	0.30660	30.51	0.00	4.08	7.87	0.00	1.58	0.21	33.15	0.10	0.10	0.00	0.00	0.00	0.19	4.85
18.20	0.30660	30.55	0.00	4.19	7.86	0.00	1.58	0.21	33.58	0.10	0.10	0.00	0.00	0.00	0.20	4.86
18.00	0.30660	30.60	0.00	4.30	7.86	0.00	1.58	0.21	34.00	0.10	0.10	0.00	0.00	0.00	0.20	4.87
17.80	0.78200	30.58	0.00	4.15	4.96	0.00	1.49	0.21	34.80	0.10	0.10	0.00	0.00	0.00	0.20	12.66
17.60	0.78200	30.56	0.00	4.06	5.25	0.00	1.51	0.21	35.60	0.10	0.10	0.00	0.00	0.00	0.19	12.64
17.40	0.78200	30.54	0.00	3.98	5.54	0.00	1.53	0.21	36.40	0.10	0.10	0.00	0.00	0.00	0.19	12.62
17.20	0.78200	30.52	0.00	3.90	5.81	0.00	1.54	0.21	37.20	0.10	0.10	0.00	0.00	0.00	0.19	12.61
17.00	0.78200	30.50	0.00	3.83	6.08	0.00	1.56	0.21	38.00	0.10	0.10	0.00	0.00	0.00	0.19	12.59
16.80	0.78200	30.48	0.00	3.76	6.35	0.00	1.58	0.21	38.80	0.10	0.10	0.00	0.00	0.00	0.19	12.58
16.60	0.78200	30.46	0.00	3.69	6.60	0.00	1.60	0.21	39.60	0.10	0.10	0.00	0.00	0.00	0.19	12.56
16.40	0.78200	30.44	0.00	3.63	6.85	0.00	1.62	0.21	40.40	0.10	0.10	0.00	0.00	0.00	0.19	12.54
16.20	0.78200	30.42	0.00	3.57	7.09	0.00	1.63	0.21	41.20	0.10	0.10	0.00	0.00	0.00	0.19	12.53
16.00	0.78200	30.40	0.00	3.51	7.32	0.00	1.65	0.21	42.00	0.10	0.10	0.00	0.00	0.00	0.18	12.51
15.80	1.08900	30.39	0.00	3.03	10.59	0.00	1.65	0.21	42.31	0.21	0.10	0.00	0.00	0.00	0.18	6.73
15.60	1.08900	30.38	0.00	2.97	10.54	0.00	1.65	0.21	42.62	0.21	0.10	0.00	0.00	0.00	0.18	6.73
15.40	1.08900	30.38	0.00	2.93	10.49	0.00	1.65	0.21	42.92	0.21	0.10	0.00	0.00	0.00	0.18	6.73
15.20	1.08900	30.37	0.00	2.90	10.45	0.00	1.65	0.22	43.23	0.21	0.10	0.00	0.00	0.00	0.17	6.72
15.00	1.08900	30.36	0.00	2.87	10.41	0.00	1.64	0.22	43.54	0.21	0.10	0.00	0.00	0.00	0.17	6.72
14.80	1.08900	30.35	0.00	2.86	10.36	0.00	1.64	0.22	43.85	0.21	0.10	0.00	0.00	0.00	0.17	6.72
14.60	1.08900	30.35	0.00	2.86	10.32	0.00	1.64	0.22	44.15	0.21	0.10	0.00	0.00	0.00	0.17	6.71
14.40	1.08900	30.34	0.00	2.86	10.29	0.00	1.64	0.22	44.46	0.21	0.10	0.00	0.00	0.00	0.17	6.71
14.20	1.08900	30.33	0.00	2.87	10.25	0.00	1.64	0.22	44.77	0.21	0.10	0.00	0.00	0.00	0.17	6.71
14.00	1.08900	30.32	0.00	2.88	10.22	0.00	1.64	0.22	45.08	0.21	0.10	0.00	0.00	0.00	0.17	6.71
13.80	1.08900	30.32	0.00	2.90	10.18	0.00	1.64	0.22	45.38	0.21	0.10	0.00	0.00	0.00	0.17	6.70
13.60	1.08900	30.31	0.00	2.92	10.15	0.00	1.63	0.22	45.69	0.21	0.10	0.00	0.00	0.00	0.17	6.70
13.40	1.08900	30.30	0.00	2.95	10.12	0.00	1.63	0.22	46.00	0.21	0.10	0.00	0.00	0.00	0.17	6.70
13.20	1.08900	30.29	0.00	2.98	10.10	0.00	1.63	0.22	46.31	0.21	0.10	0.00	0.00	0.00	0.17	6.69
13.00	1.08900	30.28	0.00	3.02	10.07	0.00	1.63	0.22	46.62	0.21	0.10	0.00	0.00	0.00	0.18	6.69
12.80	1.08900	30.28	0.00	3.05	10.05	0.00	1.63	0.22	46.92	0.21	0.10	0.00	0.00	0.00	0.18	6.69
12.60	1.08900	30.27	0.00	3.09	10.02	0.00	1.63	0.23	47.23	0.21	0.10	0.00	0.00	0.00	0.18	6.68
12.40	1.08900	30.26	0.00	3.13	10.00	0.00	1.63	0.23	47.54	0.21	0.10	0.00	0.00	0.00	0.18	6.68
12.20	1.08900	30.25	0.00	3.18	9.98	0.00	1.63	0.23	47.85	0.21	0.10	0.00	0.00	0.00	0.18	6.68
12.00	1.08900	30.25	0.00	3.22	9.96	0.00	1.62	0.22	48.15	0.21	0.10	0.00	0.00	0.00	0.18	6.67
11.80	1.08900	30.24	0.00	3.27	9.94	0.00	1.62	0.22	48.46	0.21	0.10	0.00	0.00	0.00	0.18	6.67
11.60	1.08900	30.23	0.00	3.32	9.92	0.00	1.62	0.22	48.77	0.21	0.10	0.00	0.00	0.00	0.18	6.67
11.40	1.08900	30.22	0.00	3.37	9.90	0.00	1.62	0.22	49.08	0.21	0.10	0.00	0.00	0.00	0.18	6.66
11.20	1.08900	30.22	0.00	3.42	9.89	0.00	1.62	0.22	49.38	0.21	0.10	0.00	0.00	0.00	0.18	6.66
11.00	1.08900	30.21	0.00	3.47	9.87	0.00	1.62	0.22	49.69	0.21	0.10	0.00	0.00	0.00	0.18	6.66
10.80	1.08900	30.20	0.00	3.53	9.86	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	6.65
10.60	1.08900	30.20	0.00	3.46	9.86	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
10.40	1.08900	30.20	0.00	3.41	9.87	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
10.20	1.08900	30.20	0.00	3.36	9.87	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
10.00	1.08900	30.20	0.00	3.31	9.88	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
9.80	1.08900	30.20	0.00	3.27	9.88	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
9.60	1.08900	30.20	0.00	3.24	9.89	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
9.40	1.08900	30.20	0.00	3.21	9.89	0.00	1.62	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
9.20	1.08900	30.20	0.00	3.18	9.90	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
9.00	1.08900	30.20	0.00	3.15	9.90	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
8.80	1.08900	30.20	0.00	3.13	9.90	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
8.60	1.08900	30.20	0.00	3.11	9.91	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70
8.40	1.08900	30.20	0.00	3.09	9.91	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.18	7.70

8.20	1.08900	30.20	0.00	3.08	9.91	0.00	1.63	0.22	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
8.00	1.08900	30.20	0.00	3.06	9.92	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
7.80	1.08900	30.20	0.00	3.05	9.92	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
7.60	1.08900	30.20	0.00	3.04	9.92	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
7.40	1.08900	30.20	0.00	3.03	9.92	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
7.20	1.08900	30.20	0.00	3.02	9.92	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
7.00	1.08900	30.20	0.00	3.01	9.93	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
6.80	1.08900	30.20	0.00	3.00	9.93	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
6.60	1.08900	30.20	0.00	3.00	9.93	0.00	1.63	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
6.40	1.08900	30.20	0.00	2.99	9.93	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
6.20	1.08900	30.20	0.00	2.98	9.93	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
6.00	1.08900	30.20	0.00	2.98	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
5.80	1.08900	30.20	0.00	2.97	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
5.60	1.08900	30.20	0.00	2.97	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
5.40	1.08900	30.20	0.00	2.97	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
5.20	1.08900	30.20	0.00	2.96	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
5.00	1.08900	30.20	0.00	2.96	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
4.80	1.08900	30.20	0.00	2.95	9.94	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
4.60	1.08900	30.20	0.00	2.95	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
4.40	1.08900	30.20	0.00	2.95	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
4.20	1.08900	30.20	0.00	2.95	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
4.00	1.08900	30.20	0.00	2.94	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
3.80	1.08900	30.20	0.00	2.94	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
3.60	1.08900	30.20	0.00	2.94	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
3.40	1.08900	30.20	0.00	2.94	9.95	0.00	1.64	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
3.20	1.08900	30.20	0.00	2.94	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
3.00	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
2.80	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
2.60	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
2.40	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
2.20	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
2.00	1.08900	30.20	0.00	2.93	9.95	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
1.80	1.08900	30.20	0.00	2.93	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
1.60	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
1.40	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
1.20	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
1.00	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
0.80	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
0.60	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
0.40	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
0.20	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70
0.00	1.08900	30.20	0.00	2.92	9.96	0.00	1.65	0.23	50.00	0.21	0.10	0.00	0.00	0.00	0.17	7.70

CONDENSED CAPSULE SUMMARY FOR Praire

								REAER	BOD1	BOD1	BOD2	BOD2	NH3			
DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	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	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.30700	29.10	0.00	3.63	7.24	0.00	1.60	0.23	75.00							

5.80	0.30700	29.80	0.00	4.14	7.74	0.00	1.60	0.23	75.00	0.10	0.13	0.00	0.00	0.00	0.19	12.05
5.60	0.30700	29.80	0.00	4.57	8.20	0.00	1.60	0.22	75.00	0.10	0.13	0.00	0.00	0.00	0.19	12.05
5.40	0.30700	29.80	0.00	4.94	8.62	0.00	1.60	0.22	75.00	0.10	0.13	0.00	0.00	0.00	0.19	12.05
5.20	0.30700	29.80	0.00	5.25	9.00	0.00	1.61	0.22	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
5.00	0.30700	29.80	0.00	5.51	9.35	0.00	1.61	0.22	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
4.80	0.30700	29.80	0.00	5.72	9.67	0.00	1.61	0.21	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
4.60	0.30700	29.80	0.00	5.89	9.96	0.00	1.61	0.21	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
4.40	0.30700	29.80	0.00	6.03	10.23	0.00	1.61	0.21	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
4.20	0.30700	29.80	0.00	6.14	10.47	0.00	1.61	0.21	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
4.00	0.30700	29.80	0.00	6.22	10.69	0.00	1.61	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
3.80	0.30700	29.80	0.00	6.28	10.89	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
3.60	0.30700	29.80	0.00	6.32	11.08	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
3.40	0.30700	29.80	0.00	6.35	11.25	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
3.20	0.30700	29.80	0.00	6.36	11.40	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
3.00	0.30700	29.80	0.00	6.35	11.55	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
2.80	0.30700	29.80	0.00	6.34	11.68	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
2.60	0.30700	29.80	0.00	6.31	11.79	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
2.40	0.30700	29.80	0.00	6.28	11.90	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
2.20	0.30700	29.80	0.00	6.25	12.00	0.00	1.62	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
2.00	0.30700	29.80	0.00	6.20	12.09	0.00	1.63	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
1.80	0.30700	29.80	0.00	6.16	12.17	0.00	1.63	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
1.60	0.30700	29.80	0.00	6.11	12.25	0.00	1.63	0.20	75.00	0.10	0.13	0.00	0.00	0.00	0.20	12.05
1.40	0.30700	29.88	0.00	6.18	13.42	0.00	1.63	0.20	70.88	0.10	0.13	0.00	0.00	0.00	0.20	7.36
1.20	0.30700	29.95	0.00	6.05	14.49	0.00	1.63	0.20	66.75	0.10	0.13	0.00	0.00	0.00	0.20	7.39
1.00	0.30700	30.02	0.00	5.74	15.47	0.00	1.64	0.20	62.62	0.10	0.13	0.00	0.00	0.00	0.20	7.43
0.80	0.30700	30.10	0.00	5.26	16.35	0.00	1.64	0.20	58.50	0.10	0.13	0.00	0.00	0.00	0.20	7.46
0.60	0.30700	30.17	0.00	4.63	17.15	0.00	1.64	0.20	54.38	0.10	0.13	0.00	0.00	0.00	0.20	7.50
0.40	0.30700	30.25	0.00	3.88	17.87	0.00	1.64	0.20	50.25	0.10	0.13	0.00	0.00	0.00	0.19	7.53
0.20	0.30700	30.32	0.00	3.01	18.53	0.00	1.65	0.20	46.12	0.10	0.13	0.00	0.00	0.00	0.18	7.57
0.00	0.30700	30.40	0.00	2.04	19.12	0.00	1.65	0.21	42.00	0.10	0.13	0.00	0.00	0.00	0.16	7.60

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
	HDWTR	0.083	23.4	0.0	4.2	2.6	0.0	1.4	0.2	76.0														
	WASTELOAD # 001 (Letherman Creek) ENTERS HERE																							
1	BL 1	125.40	0.167	23.4	0.0	4.5	2.6	0.0	1.4	0.2	75.2	0.0	0.85	9.0	0.022	0.022	8.5	1.231	0.07	0.00	0.00	0.00	0.12	3.22
2	BL 1	125.20	0.167	23.4	0.0	4.8	2.6	0.0	1.4	0.2	74.4	0.0	0.85	9.0	0.022	0.022	8.5	1.231	0.07	0.00	0.00	0.00	0.12	3.23
3	BL 1	125.00	0.168	23.5	0.0	5.0	2.6	0.0	1.4	0.2	73.6	0.0	0.85	9.0	0.022	0.022	8.5	1.230	0.07	0.00	0.00	0.00	0.13	3.23
4	BL 1	124.80	0.168	23.5	0.0	5.2	2.6	0.0	1.4	0.2	72.8	0.0	0.85	9.0	0.022	0.022	8.5	1.229	0.07	0.00	0.00	0.00	0.13	3.24
5	BL 1	124.60	0.169	23.5	0.0	5.4	2.6	0.0	1.4	0.2	72.0	0.0	0.85	9.0	0.022	0.022	8.5	1.228	0.07	0.00	0.00	0.00	0.13	3.24
6	BL 1	124.40	0.169	23.5	0.0	5.5	2.6	0.0	1.4	0.2	71.2	0.0	0.85	9.0	0.022	0.022	8.5	1.227	0.07	0.00	0.00	0.00	0.13	3.24
7	BL 1	124.20	0.170	23.5	0.0	5.6	2.6	0.0	1.4	0.2	70.4	0.0	0.86	9.0	0.022	0.022	8.5	1.227	0.07	0.00	0.00	0.00	0.13	3.25
8	BL 1	124.00	0.170	23.5	0.0	5.8	2.6	0.0	1.4	0.2	69.6	0.0	0.86	9.0	0.022	0.022	8.5	1.226	0.07	0.00	0.00	0.00	0.13	3.25
9	BL 1	123.80	0.171	23.6	0.0	5.9	2.6	0.0	1.4	0.2	68.8	0.0	0.86	9.0	0.022	0.022	8.5	1.225	0.07	0.00	0.00	0.00	0.13	3.25
10	BL 1	123.60	0.171	23.6	0.0	5.9	2.6	0.0	1.4	0.2	68.0	0.0	0.86	9.0	0.022	0.022	8.5	1.224	0.07	0.00	0.00	0.00	0.13	3.26
11	BL 1	123.40	0.172	23.6	0.0	6.0	2.6	0.0	1.4	0.2	67.2	0.0	0.86	9.0	0.022	0.022	8.5	1.224	0.07	0.00	0.00	0.00	0.13	3.26
12	BL 1	123.20	0.172	23.6	0.0	6.1	2.6	0.0	1.4	0.2	66.4	0.0	0.86	9.0	0.022	0.022	8.5	1.223	0.07	0.00	0.00	0.00	0.13	3.27
13	BL 1	123.00	0.173	23.6	0.0	6.1	2.6	0.0	1.4	0.2	65.6	0.0	0.86	9.0	0.022	0.022	8.5	1.222	0.07	0.00	0.00	0.00	0.13	3.27
14	BL 1	122.80	0.173	23.7	0.0	6.2	2.6	0.0	1.4	0.2	64.8	0.0	0.86	9.0	0.022	0.022	8.5	1.221	0.07	0.00	0.00	0.00	0.13	3.27
15	BL 1	122.60	0.174	23.7	0.0	6.2	2.6	0.0	1.4	0.2	64.0	0.0	0.87	9.0	0.022	0.022	8.5	1.221	0.07	0.00	0.00	0.00	0.13	3.28
16	BL 1	122.40	0.175	23.7	0.0	6.2	2.6	0.0	1.4	0.2	63.2	0.0	0.87	9.0	0.022	0.022	8.5	1.220	0.07	0.00	0.00	0.00	0.13	3.28
17	BL 1	122.20	0.175	23.7	0.0	6.3	2.6	0.0	1.4	0.2	62.4	0.0	0.87	9.0	0.022	0.022	8.5	1.219	0.07	0.00	0.00	0.00	0.13	3.29
18	BL 1	122.00	0.176	23.7	0.0	6.3	2.6	0.0	1.4	0.2	61.6	0.0	0.87	9.0	0.022	0.022	8.5	1.218	0.07	0.00	0.00	0.00	0.13	3.29
19	BL 1	121.80	0.176	23.8	0.0	6.3	2.6	0.0	1.4	0.2	60.8	0.0	0.87	9.0	0.022	0.022	8.5	1.218	0.07	0.00	0.00	0.00	0.14	3.29
20	BL 1	121.60	0.177	23.8	0.0	6.3	2.6	0.0	1.4	0.2	60.0	0.0	0.87	9.0	0.023	0.023	8.5	1.217	0.07	0.00	0.00	0.00	0.14	3.30
21	BL 1	121.40	0.177	23.8	0.0	6.3	2.6	0.0	1.4	0.2	59.2	0.0	0.87	9.0	0.023	0.023	8.5	1.216	0.07	0.00	0.00	0.00	0.14	3.30
22	BL 1	121.20	0.178	23.8	0.0	6.3	2.5	0.0	1.4	0.2	58.4	0.0	0.87	9.0	0.023	0.023	8.4	1.216	0.07	0.00	0.00	0.00	0.14	3.30
23	BL 1	121.00	0.178	23.8	0.0	6.3	2.5	0.0	1.4	0.2	57.6	0.0	0.87	9.0	0.023	0.023	8.4	1.215	0.07	0.00	0.00	0.00	0.14	3.31
24	BL 1	120.80	0.179	23.8	0.0	6.3	2.5	0.0	1.4	0.2	56.8	0.0	0.88	9.0	0.023	0.023	8.4	1.214	0.07	0.00	0.00	0.00	0.14	3.31
25	BL 1	120.60	0.179	23.9	0.0	6.3	2.5	0.0	1.4	0.2	56.0	0.0	0.88	9.0	0.023	0.023	8.4	1.213	0.07	0.00	0.00	0.00	0.14	3.32
26	BL 1	120.40	0.180	23.9	0.0	6.3	2.5	0.0	1.4	0.2	55.2	0.0	0.88	9.0	0.023	0.023	8.4	1.213	0.07	0.00	0.00	0.00	0.14	3.32
27	BL 1	120.20	0.180	23.9	0.0	6.3	2.5	0.0	1.4	0.2	54.4	0.0	0.88	9.0	0.023	0.023	8.4	1.212	0.07	0.00	0.00	0.00	0.14	3.32
28	BL 1	120.00	0.181	23.9	0.0	6.3	2.5	0.0	1.4	0.2	53.6	0.0	0.88	9.0	0.023	0.023	8.4	1.211	0.07	0.00	0.00	0.00	0.14	3.33
29	BL 1	119.80	0.181	23.9	0.0	6.3	2.5	0.0	1.4	0.2	52.8	0.0	0.88	9.0	0.023	0.023	8.4	1.211	0.07	0.00	0.00	0.00	0.14	3.33
30	BL 1	119.60	0.182	24.0	0.0	6.3	2.5	0.0	1.4	0.2	52.0	0.0	0.88	9.0	0.023	0.023	8.4	1.210	0.07	0.00	0.00	0.00	0.14	3.34
31	BL 1	119.40	0.183	24.0	0.0	6.3	2.5	0.0	1.4	0.2	51.2	0.0	0.88	9.1	0.023	0.023	8.4	1.209	0.07	0.00	0.00	0.00	0.14	3.34
32	BL 1	119.20	0.183	24.0	0.0	6.2	2.5	0.0	1.4	0.2	50.4	0.0	0.89	9.1	0.023	0.023	8.4	1.209	0.07	0.00	0.00	0.00	0.14	3.34
33	BL 1	119.00	0.184	24.0	0.0	6.2	2.5	0.0	1.4	0.2	49.6	0.0	0.89	9.1	0.023	0.023	8.4	1.208	0.07	0.00	0.00	0.00	0.14	3.35
34	BL 1	118.80	0.184	24.0	0.0	6.2	2.5	0.0	1.4	0.2	48.8	0.0	0.89	9.1	0.023	0.023	8.4	1.207	0.07	0.00	0.00	0.00	0.14	3.35
35	BL 1	118.60	0.185	24.1	0.0	6.2	2.5	0.0	1.4	0.2	48.0	0.0	0.89	9.1	0.023	0.023	8.4	1.207	0.07	0.00	0.00	0.00	0.14	3.36
36	BL 1	118.40	0.185	24.1	0.0	6.2	2.5	0.0	1.4	0.2	47.2	0.0	0.89	9.1	0.023	0.023	8.4	1.206	0.07	0.00	0.00	0.00	0.14	3.36
37	BL 1	118.20	0.186	24.1	0.0	6.2	2.5	0.0	1.4	0.2	46.4	0.0	0.89	9.1	0.023	0.023	8.4	1.205	0.07	0.00	0.00	0.00	0.14	3.36
38	BL 1	118.00	0.186	24.1	0.0	6.2	2.5	0.0	1.4	0.2	45.6	0.0	0.89	9.1	0.023	0.023	8.4	1.205	0.07	0.00	0.00	0.00	0.14	3.37
39	BL 1	117.80	0.187	24.1	0.0	6.1	2.5	0.0	1.4	0.2	44.8	0.0	0.89	9.1	0.023	0.023	8.4	1.204	0.07	0.00	0.00	0.00	0.14	3.37
40	BL 1	117.60	0.187	24.1	0.0	6.1	2.5	0.0	1.4	0.2	44.0	0.0	0.89	9.1	0.023	0.023	8.4	1.203	0.07	0.00	0.00	0.00	0.14	3.38
41	BL 1	117.40	0.188	24.2	0.0	6.1	2.5	0.0	1.4	0.2	43.2	0.0	0.90	9.1	0.023	0.023	8.4	1.203	0.07	0.00	0.00	0.00	0.14	3.38
42	BL 1	117.20	0.188	24.2	0.0	6.1	2.5	0.0	1.4	0.2	42.4	0.0	0.90	9.1	0.023	0.023	8.4	1.202	0.07	0.00	0.00	0.00	0.14	3.38
43	BL 1	117.00	0.189	24.2	0.0	6.1	2.5	0.0	1.4	0.2	41.6	0.0	0.90	9.1	0.023	0.023	8.4	1.202	0.07	0.00	0.00	0.00	0.14	3.39

44	BL	1	116.80	0.190	24.2	0.0	6.0	2.5	0.0	1.4	0.2	40.8	0.0	0.90	9.1	0.023	0.023	8.4	1.201	0.07	0.00	0.00	0.00	0.14	3.39
45	BL	1	116.60	0.190	24.2	0.0	6.0	2.5	0.0	1.4	0.2	40.0	0.0	0.90	9.1	0.023	0.023	8.4	1.200	0.07	0.00	0.00	0.00	0.14	3.39
46	BL	1	116.40	0.191	24.3	0.0	6.0	2.5	0.0	1.4	0.2	39.2	0.0	0.90	9.1	0.023	0.023	8.4	1.200	0.07	0.00	0.00	0.00	0.14	3.40
47	BL	1	116.20	0.191	24.3	0.0	6.0	2.5	0.0	1.4	0.2	38.4	0.0	0.90	9.1	0.023	0.023	8.4	1.199	0.07	0.00	0.00	0.00	0.14	3.40
48	BL	1	116.00	0.192	24.3	0.0	6.0	2.5	0.0	1.4	0.2	37.6	0.0	0.90	9.1	0.023	0.023	8.4	1.198	0.07	0.00	0.00	0.00	0.14	3.41
49	BL	1	115.80	0.192	24.3	0.0	5.9	2.5	0.0	1.4	0.2	36.8	0.0	0.90	9.1	0.023	0.023	8.4	1.198	0.07	0.00	0.00	0.00	0.14	3.41
50	BL	1	115.60	0.193	24.3	0.0	5.9	2.5	0.0	1.4	0.2	36.0	0.0	0.91	9.1	0.023	0.023	8.4	1.197	0.07	0.00	0.00	0.00	0.14	3.41
51	BL	1	115.40	0.193	24.3	0.0	5.9	2.5	0.0	1.4	0.2	35.2	0.0	0.91	9.1	0.023	0.023	8.4	1.197	0.07	0.00	0.00	0.00	0.14	3.42
52	BL	1	115.20	0.194	24.4	0.0	5.9	2.5	0.0	1.4	0.2	34.4	0.0	0.91	9.1	0.023	0.023	8.4	1.196	0.07	0.00	0.00	0.00	0.14	3.42
53	BL	1	115.00	0.194	24.4	0.0	5.9	2.5	0.0	1.4	0.2	33.6	0.0	0.91	9.1	0.023	0.023	8.4	1.195	0.07	0.00	0.00	0.00	0.14	3.43
54	BL	1	114.80	0.195	24.4	0.0	5.8	2.5	0.0	1.4	0.2	32.8	0.0	0.91	9.1	0.023	0.023	8.4	1.195	0.07	0.00	0.00	0.00	0.14	3.43
55	BL	1	114.60	0.195	24.4	0.0	5.8	2.5	0.0	1.4	0.2	32.0	0.0	0.91	9.1	0.023	0.023	8.4	1.194	0.07	0.00	0.00	0.00	0.14	3.43
56	BL	1	114.40	0.196	24.4	0.0	5.8	2.5	0.0	1.4	0.2	31.2	0.0	0.91	9.1	0.024	0.024	8.3	1.194	0.07	0.00	0.00	0.00	0.14	3.44
57	BL	1	114.20	0.196	24.5	0.0	5.8	2.5	0.0	1.4	0.2	30.4	0.0	0.91	9.1	0.024	0.024	8.3	1.193	0.07	0.00	0.00	0.00	0.14	3.44
58	BL	1	114.00	0.197	24.5	0.0	5.8	2.5	0.0	1.4	0.2	29.6	0.0	0.91	9.1	0.024	0.024	8.3	1.193	0.07	0.00	0.00	0.00	0.14	3.45
59	BL	1	113.80	0.198	24.5	0.0	5.7	2.5	0.0	1.4	0.2	28.8	0.0	0.92	9.1	0.024	0.024	8.3	1.192	0.07	0.00	0.00	0.00	0.14	3.45
60	BL	1	113.60	0.198	24.5	0.0	5.7	2.5	0.0	1.4	0.2	28.0	0.0	0.92	9.1	0.024	0.024	8.3	1.191	0.07	0.00	0.00	0.00	0.14	3.45
61	BL	1	113.40	0.199	24.5	0.0	5.7	2.5	0.0	1.4	0.2	27.2	0.0	0.92	9.1	0.024	0.024	8.3	1.191	0.07	0.00	0.00	0.00	0.14	3.46
62	BL	1	113.20	0.199	24.6	0.0	5.7	2.5	0.0	1.4	0.2	26.4	0.0	0.92	9.1	0.024	0.024	8.3	1.190	0.07	0.00	0.00	0.00	0.14	3.46
63	BL	1	113.00	0.200	24.6	0.0	5.7	2.5	0.0	1.4	0.2	25.6	0.0	0.92	9.1	0.024	0.024	8.3	1.190	0.07	0.00	0.00	0.00	0.14	3.47
64	BL	1	112.80	0.200	24.6	0.0	5.6	2.5	0.0	1.4	0.2	24.8	0.0	0.92	9.2	0.024	0.024	8.3	1.189	0.07	0.00	0.00	0.00	0.14	3.47
65	BL	1	112.60	0.201	24.6	0.0	5.6	2.5	0.0	1.4	0.2	24.0	0.0	0.92	9.2	0.024	0.024	8.3	1.189	0.07	0.00	0.00	0.00	0.14	3.48
66	BL	1	112.40	0.201	24.6	0.0	5.6	2.5	0.0	1.4	0.2	23.2	0.0	0.92	9.2	0.024	0.024	8.3	1.188	0.07	0.00	0.00	0.00	0.14	3.48
67	BL	1	112.20	0.202	24.6	0.0	5.6	2.5	0.0	1.4	0.2	22.4	0.0	0.92	9.2	0.024	0.024	8.3	1.187	0.07	0.00	0.00	0.00	0.14	3.48
68	BL	1	112.00	0.202	24.7	0.0	5.5	2.4	0.0	1.4	0.2	21.6	0.0	0.93	9.2	0.024	0.024	8.3	1.187	0.07	0.00	0.00	0.00	0.14	3.49
69	BL	1	111.80	0.203	24.7	0.0	5.5	2.4	0.0	1.4	0.2	20.8	0.0	0.93	9.2	0.024	0.024	8.3	1.186	0.07	0.00	0.00	0.00	0.14	3.49
70	BL	1	111.60	0.203	24.7	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	0.93	9.2	0.024	0.024	8.3	1.186	0.07	0.00	0.00	0.00	0.14	3.50
71	BL	2	111.40	0.204	24.7	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.579	0.07	0.00	0.00	0.00	0.14	3.23
72	BL	2	111.20	0.204	24.7	0.0	5.5	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.578	0.07	0.00	0.00	0.00	0.14	3.23

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	ADVEC DISP m²/s	MEAN DEPTH m	DO WIDTH m	REAER VELO m/s	BOD1 VELO m/s	BOD1 SAT mg/L	BOD2 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	SOD DECA 1/da	SOD g/m²/d
73	BL 2	111.00	0.205	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.577	0.07	0.00	0.00	0.00	0.14	3.23
74	BL 2	110.80	0.206	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.576	0.07	0.00	0.00	0.00	0.14	3.23
75	BL 2	110.60	0.206	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.574	0.07	0.00	0.00	0.00	0.14	3.23
76	BL 2	110.40	0.207	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.8	0.028	0.028	8.3	1.573	0.07	0.00	0.00	0.00	0.14	3.23
77	BL 2	110.20	0.207	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.9	0.028	0.028	8.3	1.572	0.07	0.00	0.00	0.00	0.14	3.23
78	BL 2	110.00	0.208	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.74	9.9	0.028	0.028	8.3	1.571	0.07	0.00	0.00	0.00	0.14	3.23
79	BL 2	109.80	0.208	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.570	0.07	0.00	0.00	0.00	0.14	3.23
80	BL 2	109.60	0.209	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.569	0.07	0.00	0.00	0.00	0.14	3.23
81	BL 2	109.40	0.209	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.568	0.07	0.00	0.00	0.00	0.14	3.23
82	BL 2	109.20	0.210	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.567	0.07	0.00	0.00	0.00	0.14	3.23
83	BL 2	109.00	0.210	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.565	0.07	0.00	0.00	0.00	0.14	3.23
84	BL 2	108.80	0.211	24.7	0.0	5.6	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.028	0.028	8.3	1.564	0.07	0.00	0.00	0.00	0.14	3.23
85	BL 2	108.60	0.211	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.563	0.07	0.00	0.00	0.00	0.14	3.23
86	BL 2	108.40	0.212	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.562	0.07	0.00	0.00	0.00	0.14	3.23
87	BL 2	108.20	0.212	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.561	0.07	0.00	0.00	0.00	0.14	3.23
88	BL 2	108.00	0.213	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.560	0.07	0.00	0.00	0.00	0.14	3.23
89	BL 2	107.80	0.214	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.559	0.07	0.00	0.00	0.00	0.14	3.23
90	BL 2	107.60	0.214	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.75	9.9	0.029	0.029	8.3	1.558	0.07	0.00	0.00	0.00	0.14	3.23
91	BL 2	107.40	0.215	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.557	0.07	0.00	0.00	0.00	0.14	3.23
92	BL 2	107.20	0.215	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.556	0.07	0.00	0.00	0.00	0.14	3.23
93	BL 2	107.00	0.216	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.555	0.07	0.00	0.00	0.00	0.14	3.23
94	BL 2	106.80	0.216	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.553	0.07	0.00	0.00	0.00	0.14	3.23
95	BL 2	106.60	0.217	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.552	0.07	0.00	0.00	0.00	0.14	3.23
96	BL 2	106.40	0.217	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.551	0.07	0.00	0.00	0.00	0.14	3.23
97	BL 2	106.20	0.218	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.550	0.07	0.00	0.00	0.00	0.14	3.23
98	BL 2	106.00	0.218	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.549	0.07	0.00	0.00	0.00	0.14	3.23
99	BL 2	105.80	0.219	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.548	0.07	0.00	0.00	0.00	0.14	3.23
100	BL 2	105.60	0.219	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.547	0.07	0.00	0.00	0.00	0.14	3.23
101	BL 2	105.40	0.220	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.546	0.07	0.00	0.00	0.00	0.14	3.23
102	BL 2	105.20	0.220	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.76	9.9	0.029	0.029	8.3	1.545	0.07	0.00	0.00	0.00	0.14	3.23
103	BL 2	105.00	0.221	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.544	0.07	0.00	0.00	0.00	0.14	3.23
104	BL 2	104.80	0.222	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.543	0.07	0.00	0.00	0.00	0.14	3.23
105	BL 2	104.60	0.222	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.542	0.07	0.00	0.00	0.00	0.14	3.23
106	BL 2	104.40	0.223	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.541	0.07	0.00	0.00	0.00	0.14	3.24
107	BL 2	104.20	0.223	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.540	0.07	0.00	0.00	0.00	0.14	3.24
108	BL 2	104.00	0.224	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.539	0.07	0.00	0.00	0.00	0.14	3.24
109	BL 2	103.80	0.224	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.538	0.07	0.00	0.00	0.00	0.14	3.24
110	BL 2	103.60	0.225	24.7	0.0	5.7	2.5	0.0	1.4	0.2	20.0	0.0	0.77	9.9	0.029	0.029	8.3	1.537	0.07	0.00	0.00	0.00	0.14	3.24
111	BL 2	103.40	0.225	24.7	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.77	10.0	0.029	0.029	8.3	1.536	0.07	0.00	0.00	0.00	0.14	3.24
112	BL 2	103.20	0.226	24.7	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.77	10.0	0.029	0.029	8.3	1.535	0.07	0.00	0.00	0.00	0.14	3.24
113	BL 2	103.00	0.226	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.77	10.0	0.029	0.029	8.3	1.534	0.07	0.00	0.00	0.00	0.14	3.24
114	BL 2	102.80	0.227	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.77	10.0	0.029	0.029	8.3	1.533	0.07	0.00	0.00	0.00	0.14	3.24
115	BL 2	102.60	0.227	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.78	10.0	0.029	0.029	8.3	1.532	0.07	0.00	0.00	0.00	0.14	3.24
116	BL 2	102.40	0.228	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.78	10.0	0.029	0.029	8.3	1.531	0.07	0.00	0.00	0.00	0.14	3.24
117	BL 2	102.20	0.228	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.78	10.0	0.029	0.029	8.3	1.530	0.07	0.00	0.00	0.00	0.14	3.24

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118 BL  2  102.00   0.229 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.78  10.0  0.030  0.030   8.3  1.529 0.07 0.00 0.00 0.00 0.14  3.24
    WASTELOAD # 119 (Kepler Creek) ENTERS HERE
119 BL  2  101.80   0.265 24.8  0.0  5.5   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.1  0.031  0.031   8.3  1.469 0.07 0.00 0.00 0.00 0.14  3.24
120 BL  2  101.60   0.265 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.1  0.031  0.031   8.3  1.468 0.07 0.00 0.00 0.00 0.14  3.24
121 BL  2  101.40   0.266 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.1  0.031  0.031   8.3  1.467 0.07 0.00 0.00 0.00 0.14  3.24
122 BL  2  101.20   0.266 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.2  0.031  0.031   8.3  1.466 0.07 0.00 0.00 0.00 0.14  3.24
123 BL  2  101.00   0.267 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.2  0.032  0.032   8.3  1.466 0.07 0.00 0.00 0.00 0.14  3.24
124 BL  2  100.80   0.267 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.2  0.032  0.032   8.3  1.465 0.07 0.00 0.00 0.00 0.14  3.24
125 BL  2  100.60   0.268 24.8  0.0  5.6   2.6   0.0  1.4  0.2 20.0    0.0   0.83  10.2  0.032  0.032   8.3  1.464 0.07 0.00 0.00 0.00 0.14  3.24
126 BL  2  100.40   0.268 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.463 0.07 0.00 0.00 0.00 0.14  3.24
127 BL  2  100.20   0.269 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.462 0.07 0.00 0.00 0.00 0.14  3.24
128 BL  2  100.00   0.269 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.462 0.07 0.00 0.00 0.00 0.14  3.24
129 BL  2   99.80   0.270 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.461 0.07 0.00 0.00 0.00 0.14  3.24
130 BL  2   99.60   0.270 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.460 0.07 0.00 0.00 0.00 0.14  3.24
131 BL  2   99.40   0.271 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.459 0.07 0.00 0.00 0.00 0.14  3.24
132 BL  2   99.20   0.272 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.459 0.07 0.00 0.00 0.00 0.14  3.24
133 BL  2   99.00   0.272 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.458 0.07 0.00 0.00 0.00 0.14  3.24
134 BL  2   98.80   0.273 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.457 0.07 0.00 0.00 0.00 0.14  3.24
135 BL  2   98.60   0.273 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.456 0.07 0.00 0.00 0.00 0.14  3.24
136 BL  2   98.40   0.274 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.456 0.07 0.00 0.00 0.00 0.14  3.24
137 BL  2   98.20   0.274 24.8  0.0  5.8   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.455 0.07 0.00 0.00 0.00 0.14  3.24
138 BL  2   98.00   0.275 24.8  0.0  5.8   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.454 0.07 0.00 0.00 0.00 0.14  3.24
139 BL  2   97.80   0.275 24.8  0.0  5.8   2.6   0.0  1.4  0.2 20.0    0.0   0.84  10.2  0.032  0.032   8.3  1.453 0.07 0.00 0.00 0.00 0.14  3.24
140 BL  2   97.60   0.276 24.8  0.0  5.8   2.6   0.0  1.4  0.2 20.0    0.0   0.85  10.2  0.032  0.032   8.3  1.453 0.07 0.00 0.00 0.00 0.14  3.24
141 BL  2   97.40   0.276 24.8  0.0  5.8   2.6   0.0  1.4  0.2 20.0    0.0   0.85  10.2  0.032  0.032   8.3  1.452 0.07 0.00 0.00 0.00 0.14  3.24
    WASTELOAD # 142 (FourMile Creek) ENTERS HERE
142 BL  2   97.20   0.301 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.88  10.3  0.033  0.033   8.3  1.419 0.07 0.00 0.00 0.00 0.14  3.24
143 BL  2   97.00   0.301 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.88  10.3  0.033  0.033   8.3  1.418 0.07 0.00 0.00 0.00 0.14  3.24
144 BL  2   96.80   0.302 24.8  0.0  5.7   2.6   0.0  1.4  0.2 20.0    0.0   0.88  10.3  0.033  0.033   8.3  1.417 0.07 0.00 0.00 0.00 0.14  3.24
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EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
145	BL 2	96.60	0.302	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.88	10.3	0.033	0.033	8.3	1.417	0.07	0.00	0.00	0.00	0.14	3.24
146	BL 2	96.40	0.303	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.88	10.3	0.033	0.033	8.3	1.416	0.07	0.00	0.00	0.00	0.14	3.24
147	BL 2	96.20	0.304	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.88	10.3	0.033	0.033	8.3	1.415	0.07	0.00	0.00	0.00	0.14	3.25
148	BL 2	96.00	0.304	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.88	10.3	0.033	0.033	8.3	1.415	0.07	0.00	0.00	0.00	0.14	3.25
149	BL 2	95.80	0.305	24.8	0.0	5.7	2.6	0.0	1.4	0.2	20.0	0.0	0.88	10.3	0.033	0.033	8.3	1.414	0.07	0.00	0.00	0.00	0.14	3.25
150	BL 2	95.60	0.305	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.033	0.033	8.3	1.413	0.07	0.00	0.00	0.00	0.14	3.25
151	BL 2	95.40	0.306	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.033	0.033	8.3	1.413	0.07	0.00	0.00	0.00	0.14	3.25
152	BL 2	95.20	0.306	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.033	0.033	8.3	1.412	0.07	0.00	0.00	0.00	0.14	3.25
153	BL 2	95.00	0.307	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.033	0.033	8.3	1.412	0.07	0.00	0.00	0.00	0.14	3.25
154	BL 2	94.80	0.307	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.411	0.07	0.00	0.00	0.00	0.14	3.25
155	BL 2	94.60	0.308	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.410	0.07	0.00	0.00	0.00	0.14	3.25
156	BL 2	94.40	0.308	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.410	0.07	0.00	0.00	0.00	0.14	3.25
157	BL 2	94.20	0.309	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.409	0.07	0.00	0.00	0.00	0.14	3.25
158	BL 2	94.00	0.309	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.408	0.07	0.00	0.00	0.00	0.14	3.25
159	BL 2	93.80	0.310	24.8	0.0	5.8	2.6	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.408	0.07	0.00	0.00	0.00	0.14	3.25
160	BL 2	93.60	0.310	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.407	0.07	0.00	0.00	0.00	0.14	3.25
161	BL 2	93.40	0.311	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.407	0.07	0.00	0.00	0.00	0.14	3.25
162	BL 2	93.20	0.312	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.406	0.07	0.00	0.00	0.00	0.14	3.25
163	BL 2	93.00	0.312	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.89	10.3	0.034	0.034	8.3	1.405	0.07	0.00	0.00	0.00	0.14	3.25
164	BL 2	92.80	0.313	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.89	10.4	0.034	0.034	8.3	1.405	0.07	0.00	0.00	0.00	0.14	3.25
165	BL 2	92.60	0.313	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.404	0.07	0.00	0.00	0.00	0.14	3.25
166	BL 2	92.40	0.314	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.403	0.07	0.00	0.00	0.00	0.14	3.25
167	BL 2	92.20	0.314	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.403	0.07	0.00	0.00	0.00	0.14	3.25
168	BL 2	92.00	0.315	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.402	0.07	0.00	0.00	0.00	0.14	3.25
169	BL 2	91.80	0.315	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.402	0.07	0.00	0.00	0.00	0.14	3.25
170	BL 2	91.60	0.316	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.401	0.07	0.00	0.00	0.00	0.14	3.25
171	BL 2	91.40	0.316	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.400	0.07	0.00	0.00	0.00	0.14	3.25
172	BL 2	91.20	0.317	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.400	0.07	0.00	0.00	0.00	0.14	3.25
173	BL 2	91.00	0.317	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.399	0.07	0.00	0.00	0.00	0.14	3.25
174	BL 2	90.80	0.318	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.399	0.07	0.00	0.00	0.00	0.14	3.25
175	BL 2	90.60	0.318	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.398	0.07	0.00	0.00	0.00	0.14	3.25
176	BL 2	90.40	0.319	24.8	0.0	5.8	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.397	0.07	0.00	0.00	0.00	0.14	3.25
177	BL 2	90.20	0.320	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.397	0.07	0.00	0.00	0.00	0.14	3.25
178	BL 2	90.00	0.320	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.90	10.4	0.034	0.034	8.3	1.396	0.07	0.00	0.00	0.00	0.14	3.25
179	BL 2	89.80	0.321	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.396	0.07	0.00	0.00	0.00	0.14	3.25
180	BL 2	89.60	0.321	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.395	0.07	0.00	0.00	0.00	0.14	3.25
181	BL 2	89.40	0.322	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.394	0.07	0.00	0.00	0.00	0.14	3.25
182	BL 2	89.20	0.322	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.394	0.07	0.00	0.00	0.00	0.14	3.25
183	BL 2	89.00	0.323	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.393	0.07	0.00	0.00	0.00	0.14	3.25
184	BL 2	88.80	0.323	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.393	0.07	0.00	0.00	0.00	0.14	3.25
185	BL 2	88.60	0.324	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.392	0.07	0.00	0.00	0.00	0.14	3.25
186	BL 2	88.40	0.324	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.391	0.07	0.00	0.00	0.00	0.14	3.25
187	BL 2	88.20	0.325	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.391	0.07	0.00	0.00	0.00	0.14	3.25
188	BL 2	88.00	0.325	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.390	0.07	0.00	0.00	0.00	0.14	3.25
189	BL 2	87.80	0.326	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.390	0.07	0.00	0.00	0.00	0.14	3.26

190	BL	2	87.60	0.326	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.389	0.07	0.00	0.00	0.00	0.14	3.26
191	BL	2	87.40	0.327	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.389	0.07	0.00	0.00	0.00	0.14	3.26
192	BL	2	87.20	0.328	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.388	0.07	0.00	0.00	0.00	0.14	3.26
193	BL	2	87.00	0.328	24.8	0.0	5.9	2.5	0.0	1.4	0.2	20.0	0.0	0.91	10.4	0.034	0.034	8.3	1.387	0.07	0.00	0.00	0.00	0.14	3.26
194	BL	2	86.80	0.329	24.8	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.034	0.034	8.3	1.387	0.07	0.00	0.00	0.00	0.14	3.26
195	BL	2	86.60	0.329	24.8	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.386	0.07	0.00	0.00	0.00	0.14	3.26
196	BL	2	86.40	0.330	24.8	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.386	0.07	0.00	0.00	0.00	0.14	3.26
197	BL	2	86.20	0.330	24.8	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.385	0.07	0.00	0.00	0.00	0.14	3.26
198	BL	2	86.00	0.331	24.8	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.385	0.07	0.00	0.00	0.00	0.14	3.26
199	BL	2	85.80	0.331	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.384	0.07	0.00	0.00	0.00	0.14	3.26
200	BL	2	85.60	0.332	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.383	0.07	0.00	0.00	0.00	0.14	3.26
201	BL	2	85.40	0.332	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.383	0.07	0.00	0.00	0.00	0.14	3.26
202	BL	2	85.20	0.333	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.382	0.07	0.00	0.00	0.00	0.14	3.26
203	BL	2	85.00	0.333	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.382	0.07	0.00	0.00	0.00	0.14	3.26
204	BL	2	84.80	0.334	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.381	0.07	0.00	0.00	0.00	0.14	3.26
205	BL	2	84.60	0.334	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.381	0.07	0.00	0.00	0.00	0.14	3.26
206	BL	2	84.40	0.335	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.380	0.08	0.00	0.00	0.00	0.14	3.26
207	BL	2	84.20	0.336	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.380	0.08	0.00	0.00	0.00	0.14	3.26
208	BL	2	84.00	0.336	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.92	10.4	0.035	0.035	8.3	1.379	0.08	0.00	0.00	0.00	0.14	3.26
209	BL	2	83.80	0.337	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.4	0.035	0.035	8.3	1.378	0.08	0.00	0.00	0.00	0.14	3.26
210	BL	2	83.60	0.337	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.4	0.035	0.035	8.3	1.378	0.08	0.00	0.00	0.00	0.14	3.26
211	BL	2	83.40	0.338	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.4	0.035	0.035	8.3	1.377	0.08	0.00	0.00	0.00	0.14	3.26
212	BL	2	83.20	0.338	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.4	0.035	0.035	8.3	1.377	0.08	0.00	0.00	0.00	0.14	3.26
213	BL	2	83.00	0.339	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.376	0.08	0.00	0.00	0.00	0.14	3.26
214	BL	2	82.80	0.339	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.376	0.08	0.00	0.00	0.00	0.14	3.26
215	BL	2	82.60	0.340	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.375	0.08	0.00	0.00	0.00	0.14	3.26
216	BL	2	82.40	0.340	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.375	0.08	0.00	0.00	0.00	0.14	3.26
217	BL	2	82.20	0.341	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.374	0.08	0.00	0.00	0.00	0.14	3.26
218	BL	2	82.00	0.341	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.374	0.08	0.00	0.00	0.00	0.14	3.26

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
219	BL 2	81.80	0.342	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.373	0.08	0.00	0.00	0.00	0.14	3.26
220	BL 2	81.60	0.342	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.373	0.08	0.00	0.00	0.00	0.14	3.26
221	BL 2	81.40	0.343	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.372	0.08	0.00	0.00	0.00	0.14	3.26
222	BL 2	81.20	0.344	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.371	0.08	0.00	0.00	0.00	0.14	3.26
223	BL 2	81.00	0.344	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.371	0.08	0.00	0.00	0.00	0.14	3.26
224	BL 2	80.80	0.345	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.93	10.5	0.035	0.035	8.3	1.370	0.08	0.00	0.00	0.00	0.14	3.26
225	BL 2	80.60	0.345	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.370	0.08	0.00	0.00	0.00	0.14	3.26
226	BL 2	80.40	0.346	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.369	0.08	0.00	0.00	0.00	0.14	3.26
227	BL 2	80.20	0.346	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.369	0.08	0.00	0.00	0.00	0.14	3.26
228	BL 2	80.00	0.347	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.368	0.08	0.00	0.00	0.00	0.14	3.26
229	BL 2	79.80	0.347	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.368	0.08	0.00	0.00	0.00	0.14	3.26
230	BL 2	79.60	0.348	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.94	10.5	0.035	0.035	8.3	1.367	0.08	0.00	0.00	0.00	0.14	3.26
WASTELOAD # 231 (Castor Creek) ENTERS HERE																							
231	BL 2	79.40	0.375	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.340	0.08	0.00	0.00	0.00	0.14	3.27
232	BL 2	79.20	0.376	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.340	0.08	0.00	0.00	0.00	0.14	3.27
233	BL 2	79.00	0.376	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.339	0.08	0.00	0.00	0.00	0.14	3.27
234	BL 2	78.80	0.377	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.339	0.08	0.00	0.00	0.00	0.14	3.27
235	BL 2	78.60	0.377	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.338	0.08	0.00	0.00	0.00	0.14	3.27
236	BL 2	78.40	0.378	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.97	10.6	0.037	0.037	8.3	1.338	0.08	0.00	0.00	0.00	0.14	3.27
237	BL 2	78.20	0.379	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	0.98	10.6	0.037	0.037	8.3	1.337	0.08	0.00	0.00	0.00	0.14	3.27
238	BL 2	78.00	0.379	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.98	10.6	0.037	0.037	8.3	1.337	0.08	0.00	0.00	0.00	0.14	3.27
239	BL 2	77.80	0.380	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.98	10.6	0.037	0.037	8.3	1.336	0.08	0.00	0.00	0.00	0.14	3.27
240	BL 2	77.60	0.380	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.98	10.6	0.037	0.037	8.3	1.336	0.08	0.00	0.00	0.00	0.14	3.27
241	BL 2	77.40	0.381	24.9	0.0	5.9	2.5	0.0	1.3	0.2	20.0	0.0	0.98	10.6	0.037	0.037	8.3	1.336	0.08	0.00	0.00	0.00	0.14	3.27
242	BL 3	77.20	0.381	24.9	0.0	5.8	2.5	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.099	0.08	0.00	0.00	0.00	0.14	3.95
243	BL 3	77.00	0.382	24.9	0.0	5.8	2.4	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.099	0.08	0.00	0.00	0.00	0.14	3.95
244	BL 3	76.80	0.382	24.9	0.0	5.7	2.4	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.098	0.08	0.00	0.00	0.00	0.14	3.96
245	BL 3	76.60	0.383	24.9	0.0	5.7	2.4	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.098	0.08	0.00	0.00	0.00	0.14	3.96
246	BL 3	76.40	0.383	25.0	0.0	5.6	2.4	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.098	0.08	0.00	0.00	0.00	0.14	3.96
247	BL 3	76.20	0.384	25.0	0.0	5.6	2.4	0.0	1.3	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.098	0.08	0.00	0.00	0.00	0.14	3.96
248	BL 3	76.00	0.384	25.0	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.098	0.08	0.00	0.00	0.00	0.14	3.97
249	BL 3	75.80	0.385	25.0	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.097	0.08	0.00	0.00	0.00	0.14	3.97
250	BL 3	75.60	0.385	25.0	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.097	0.08	0.00	0.00	0.00	0.14	3.97
251	BL 3	75.40	0.386	25.0	0.0	5.5	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.097	0.08	0.00	0.00	0.00	0.14	3.97
252	BL 3	75.20	0.387	25.0	0.0	5.4	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.097	0.08	0.00	0.00	0.00	0.14	3.98
253	BL 3	75.00	0.387	25.0	0.0	5.4	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.096	0.08	0.00	0.00	0.00	0.14	3.98
254	BL 3	74.80	0.388	25.0	0.0	5.4	2.4	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.096	0.08	0.00	0.00	0.00	0.14	3.98
255	BL 3	74.60	0.388	25.0	0.0	5.4	2.3	0.0	1.4	0.2	20.0	0.0	1.08	12.3	0.029	0.029	8.3	1.096	0.08	0.00	0.00	0.00	0.14	3.98
256	BL 3	74.40	0.389	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.3	1.096	0.08	0.00	0.00	0.00	0.14	3.99
257	BL 3	74.20	0.389	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.3	1.096	0.08	0.00	0.00	0.00	0.14	3.99
258	BL 3	74.00	0.390	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.3	1.095	0.08	0.00	0.00	0.00	0.14	3.99
259	BL 3	73.80	0.390	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.095	0.08	0.00	0.00	0.00	0.14	3.99
260	BL 3	73.60	0.391	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.095	0.08	0.00	0.00	0.00	0.14	4.00
261	BL 3	73.40	0.391	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.095	0.08	0.00	0.00	0.00	0.14	4.00
262	BL 3	73.20	0.392	25.1	0.0	5.3	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.095	0.08	0.00	0.00	0.00	0.14	4.00

263	BL	3	73.00	0.392	25.1	0.0	5.2	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.094	0.08	0.00	0.00	0.00	0.14	4.01
264	BL	3	72.80	0.393	25.1	0.0	5.2	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.094	0.08	0.00	0.00	0.00	0.14	4.01
265	BL	3	72.60	0.393	25.1	0.0	5.2	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.094	0.08	0.00	0.00	0.00	0.14	4.01
266	BL	3	72.40	0.394	25.2	0.0	5.2	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.094	0.08	0.00	0.00	0.00	0.14	4.01
267	BL	3	72.20	0.395	25.2	0.0	5.2	2.3	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.093	0.08	0.00	0.00	0.00	0.14	4.02
268	BL	3	72.00	0.395	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.093	0.08	0.00	0.00	0.00	0.14	4.02
269	BL	3	71.80	0.396	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.093	0.08	0.00	0.00	0.00	0.14	4.02
270	BL	3	71.60	0.396	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.09	12.3	0.029	0.029	8.2	1.093	0.08	0.00	0.00	0.00	0.14	4.02
271	BL	3	71.40	0.397	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.093	0.08	0.00	0.00	0.00	0.14	4.03
272	BL	3	71.20	0.397	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.092	0.08	0.00	0.00	0.00	0.14	4.03
273	BL	3	71.00	0.398	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.092	0.08	0.00	0.00	0.00	0.14	4.03
274	BL	3	70.80	0.398	25.2	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.092	0.08	0.00	0.00	0.00	0.14	4.03
275	BL	3	70.60	0.399	25.3	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.092	0.08	0.00	0.00	0.00	0.14	4.04
276	BL	3	70.40	0.399	25.3	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.092	0.08	0.00	0.00	0.00	0.14	4.04
277	BL	3	70.20	0.400	25.3	0.0	5.2	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.091	0.08	0.00	0.00	0.00	0.14	4.04
278	BL	3	70.00	0.400	25.3	0.0	5.1	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.091	0.08	0.00	0.00	0.00	0.14	4.04
279	BL	3	69.80	0.401	25.3	0.0	5.1	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.091	0.08	0.00	0.00	0.00	0.14	4.05
280	BL	3	69.60	0.401	25.3	0.0	5.1	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.029	0.029	8.2	1.091	0.08	0.00	0.00	0.00	0.14	4.05
281	BL	3	69.40	0.402	25.3	0.0	5.1	2.2	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.091	0.08	0.00	0.00	0.00	0.14	4.05
282	BL	3	69.20	0.403	25.3	0.0	5.1	2.1	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.090	0.08	0.00	0.00	0.00	0.14	4.06
283	BL	3	69.00	0.403	25.3	0.0	5.1	2.1	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.090	0.08	0.00	0.00	0.00	0.15	4.06
284	BL	3	68.80	0.404	25.3	0.0	5.1	2.1	0.0	1.4	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.090	0.08	0.00	0.00	0.00	0.15	4.06
285	BL	3	68.60	0.404	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.090	0.08	0.00	0.00	0.00	0.15	4.06
286	BL	3	68.40	0.405	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.10	12.4	0.030	0.030	8.2	1.090	0.08	0.00	0.00	0.00	0.15	4.07
287	BL	3	68.20	0.405	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.089	0.08	0.00	0.00	0.00	0.15	4.07
288	BL	3	68.00	0.406	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.089	0.08	0.00	0.00	0.00	0.15	4.07
289	BL	3	67.80	0.406	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.089	0.08	0.00	0.00	0.00	0.15	4.07
290	BL	3	67.60	0.407	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.089	0.08	0.00	0.00	0.00	0.15	4.08
291	BL	3	67.40	0.407	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.089	0.08	0.00	0.00	0.00	0.15	4.08

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
292	BL 3	67.20	0.408	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.088	0.08	0.00	0.00	0.00	0.15	4.08
293	BL 3	67.00	0.408	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.088	0.08	0.00	0.00	0.00	0.15	4.08
294	BL 3	66.80	0.409	25.4	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.088	0.08	0.00	0.00	0.00	0.15	4.09
295	BL 3	66.60	0.409	25.5	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.088	0.08	0.00	0.00	0.00	0.15	4.09
296	BL 3	66.40	0.410	25.5	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.088	0.08	0.00	0.00	0.00	0.15	4.09
297	BL 3	66.20	0.411	25.5	0.0	5.1	2.1	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.087	0.08	0.00	0.00	0.00	0.15	4.10
298	BL 3	66.00	0.411	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.087	0.08	0.00	0.00	0.00	0.15	4.10
299	BL 3	65.80	0.412	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.087	0.08	0.00	0.00	0.00	0.15	4.10
300	BL 3	65.60	0.412	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.087	0.08	0.00	0.00	0.00	0.15	4.10
301	BL 3	65.40	0.413	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.11	12.4	0.030	0.030	8.2	1.087	0.08	0.00	0.00	0.00	0.15	4.11
302	BL 3	65.20	0.413	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.11
303	BL 3	65.00	0.414	25.5	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.11
304	BL 3	64.80	0.414	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.11
305	BL 3	64.60	0.415	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.12
306	BL 3	64.40	0.415	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.12
307	BL 3	64.20	0.416	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.086	0.08	0.00	0.00	0.00	0.15	4.12
308	BL 3	64.00	0.416	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.085	0.08	0.00	0.00	0.00	0.15	4.12
309	BL 3	63.80	0.417	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.085	0.08	0.00	0.00	0.00	0.15	4.13
310	BL 3	63.60	0.417	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.085	0.08	0.00	0.00	0.00	0.15	4.13
311	BL 3	63.40	0.418	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.085	0.08	0.00	0.00	0.00	0.15	4.13
312	BL 3	63.20	0.419	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.085	0.08	0.00	0.00	0.00	0.15	4.14
313	BL 3	63.00	0.419	25.6	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.14
314	BL 3	62.80	0.420	25.7	0.0	5.1	2.0	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.14
315	BL 3	62.60	0.420	25.7	0.0	5.1	1.9	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.14
316	BL 3	62.40	0.421	25.7	0.0	5.1	1.9	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.15
317	BL 3	62.20	0.421	25.7	0.0	5.1	1.9	0.0	1.5	0.2	20.0	0.0	1.12	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.15
318	BL 3	62.00	0.422	25.7	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.4	0.030	0.030	8.2	1.084	0.08	0.00	0.00	0.00	0.15	4.15
319	BL 3	61.80	0.422	25.7	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.4	0.030	0.030	8.2	1.083	0.08	0.00	0.00	0.00	0.15	4.15
320	BL 3	61.60	0.423	25.7	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.4	0.030	0.030	8.2	1.083	0.08	0.00	0.00	0.00	0.15	4.16
321	BL 3	61.40	0.423	25.7	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.4	0.030	0.030	8.2	1.083	0.08	0.00	0.00	0.00	0.15	4.16
322	BL 3	61.20	0.424	25.7	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.4	0.030	0.030	8.2	1.083	0.08	0.00	0.00	0.00	0.15	4.16
323	BL 3	61.00	0.424	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.2	1.083	0.08	0.00	0.00	0.00	0.15	4.17
324	BL 3	60.80	0.425	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.17
325	BL 3	60.60	0.425	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.17
326	BL 3	60.40	0.426	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.17
327	BL 3	60.20	0.427	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.18
328	BL 3	60.00	0.427	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.18
329	BL 3	59.80	0.428	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.082	0.08	0.00	0.00	0.00	0.15	4.18
330	BL 3	59.60	0.428	25.8	0.0	5.0	1.9	0.0	1.5	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.18
331	BL 3	59.40	0.429	25.8	0.0	5.0	1.9	0.0	1.6	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.19
332	BL 3	59.20	0.429	25.8	0.0	5.0	1.9	0.0	1.6	0.2	20.0	0.0	1.13	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.19
333	BL 3	59.00	0.430	25.9	0.0	5.0	1.9	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.19
334	BL 3	58.80	0.430	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.20
335	BL 3	58.60	0.431	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.081	0.08	0.00	0.00	0.00	0.15	4.20
336	BL 3	58.40	0.431	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.20

337	BL	3	58.20	0.432	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.20
338	BL	3	58.00	0.432	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.21
339	BL	3	57.80	0.433	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.21
340	BL	3	57.60	0.433	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.21
341	BL	3	57.40	0.434	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.030	0.030	8.1	1.080	0.08	0.00	0.00	0.00	0.15	4.21
342	BL	3	57.20	0.435	25.9	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.22
343	BL	3	57.00	0.435	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.22
344	BL	3	56.80	0.436	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.22
345	BL	3	56.60	0.436	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.23
346	BL	3	56.40	0.437	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.23
347	BL	3	56.20	0.437	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.079	0.08	0.00	0.00	0.00	0.15	4.23
348	BL	3	56.00	0.438	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.14	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.23
349	BL	3	55.80	0.438	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.24
350	BL	3	55.60	0.439	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.24
351	BL	3	55.40	0.439	26.0	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.24
352	BL	3	55.20	0.440	26.1	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.25
353	BL	3	55.00	0.440	26.1	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.078	0.08	0.00	0.00	0.00	0.15	4.25
354	BL	3	54.80	0.441	26.1	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.25
355	BL	3	54.60	0.441	26.1	0.0	5.0	1.8	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.25
356	BL	3	54.40	0.442	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.26
357	BL	3	54.20	0.443	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.26
358	BL	3	54.00	0.443	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.26
359	BL	3	53.80	0.444	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.077	0.08	0.00	0.00	0.00	0.15	4.26
360	BL	3	53.60	0.444	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.27
361	BL	3	53.40	0.445	26.1	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.27
362	BL	3	53.20	0.445	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.27
363	BL	3	53.00	0.446	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.28
364	BL	3	52.80	0.446	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.15	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.28
365	BL	3	52.60	0.447	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.076	0.08	0.00	0.00	0.00	0.15	4.28

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
366	BL 3	52.40	0.447	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.28
367	BL 3	52.20	0.448	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.29
368	BL 3	52.00	0.448	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.29
369	BL 3	51.80	0.449	26.2	0.0	5.0	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.29
370	BL 3	51.60	0.449	26.2	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.30
371	BL 3	51.40	0.450	26.2	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.30
372	BL 3	51.20	0.451	26.3	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.075	0.08	0.00	0.00	0.00	0.15	4.30
373	BL 3	51.00	0.451	26.3	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.074	0.08	0.00	0.00	0.00	0.15	4.30
374	BL 3	50.80	0.452	26.3	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.074	0.08	0.00	0.00	0.00	0.15	4.31
375	BL 3	50.60	0.452	26.3	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.074	0.08	0.00	0.00	0.00	0.15	4.31
376	BL 3	50.40	0.453	26.3	0.0	4.9	1.7	0.0	1.6	0.2	20.0	0.0	1.16	12.5	0.031	0.031	8.1	1.074	0.08	0.00	0.00	0.00	0.15	4.31
377	BL 4	50.20	0.453	26.3	0.0	5.1	1.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.15	3.28
378	BL 4	50.00	0.454	26.3	0.0	5.2	2.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.28
379	BL 4	49.80	0.454	26.4	0.0	5.3	2.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.28
380	BL 4	49.60	0.455	26.4	0.0	5.4	2.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.29
381	BL 4	49.40	0.455	26.4	0.0	5.4	2.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.29
382	BL 4	49.20	0.456	26.4	0.0	5.5	2.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.29
383	BL 4	49.00	0.456	26.4	0.0	5.6	3.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.1	0.090	0.08	0.00	0.00	0.00	0.16	3.30
384	BL 4	48.80	0.457	26.4	0.0	5.6	3.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.0	0.090	0.08	0.00	0.00	0.00	0.16	3.30
385	BL 4	48.60	0.458	26.5	0.0	5.6	3.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.0	0.090	0.08	0.00	0.00	0.00	0.16	3.30
386	BL 4	48.40	0.458	26.5	0.0	5.7	3.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.0	0.090	0.08	0.00	0.00	0.00	0.16	3.31
387	BL 4	48.20	0.459	26.5	0.0	5.7	3.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.005	0.005	8.0	0.090	0.08	0.00	0.00	0.00	0.16	3.31
WASTELOAD # 388 (Grand Bayou) ENTERS HERE																								
388	BL 4	48.00	0.551	26.5	0.0	5.5	3.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.090	0.08	0.00	0.00	0.00	0.16	3.32
389	BL 4	47.80	0.552	26.5	0.0	5.5	3.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.32
390	BL 4	47.60	0.552	26.5	0.0	5.5	3.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.32
391	BL 4	47.40	0.553	26.6	0.0	5.5	3.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.33
392	BL 4	47.20	0.553	26.6	0.0	5.5	4.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.33
393	BL 4	47.00	0.554	26.6	0.0	5.6	4.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.33
394	BL 4	46.80	0.554	26.6	0.0	5.6	4.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.34
395	BL 4	46.60	0.555	26.6	0.0	5.6	4.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.34
396	BL 4	46.40	0.555	26.7	0.0	5.6	4.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.35
397	BL 4	46.20	0.556	26.7	0.0	5.5	4.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.35
398	BL 4	46.00	0.556	26.7	0.0	5.5	4.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.35
399	BL 4	45.80	0.557	26.7	0.0	5.5	4.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.36
400	BL 4	45.60	0.558	26.7	0.0	5.5	4.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.36
401	BL 4	45.40	0.558	26.7	0.0	5.5	4.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.36
402	BL 4	45.20	0.559	26.8	0.0	5.5	4.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.37
403	BL 4	45.00	0.559	26.8	0.0	5.5	5.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.37
404	BL 4	44.80	0.560	26.8	0.0	5.4	5.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.38
405	BL 4	44.60	0.560	26.8	0.0	5.4	5.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.38
406	BL 4	44.40	0.561	26.8	0.0	5.4	5.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.38
407	BL 4	44.20	0.561	26.9	0.0	5.4	5.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.39
408	BL 4	44.00	0.562	26.9	0.0	5.3	5.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.39
409	BL 4	43.80	0.562	26.9	0.0	5.3	5.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.39

410	BL	4	43.60	0.563	26.9	0.0	5.3	5.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.40
411	BL	4	43.40	0.563	26.9	0.0	5.3	5.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.40
412	BL	4	43.20	0.564	26.9	0.0	5.2	5.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.41
413	BL	4	43.00	0.564	27.0	0.0	5.2	5.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.41
414	BL	4	42.80	0.565	27.0	0.0	5.2	5.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.41
415	BL	4	42.60	0.566	27.0	0.0	5.1	5.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.42
416	BL	4	42.40	0.566	27.0	0.0	5.1	5.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.42
417	BL	4	42.20	0.567	27.0	0.0	5.1	5.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.43
418	BL	4	42.00	0.567	27.0	0.0	5.0	5.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.43
419	BL	4	41.80	0.568	27.1	0.0	5.0	5.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.43
420	BL	4	41.60	0.568	27.1	0.0	5.0	5.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.44
421	BL	4	41.40	0.569	27.1	0.0	4.9	5.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.44
422	BL	4	41.20	0.569	27.1	0.0	4.9	5.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	8.0	0.091	0.08	0.00	0.00	0.00	0.16	3.44
423	BL	4	41.00	0.570	27.1	0.0	4.9	5.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.45
424	BL	4	40.80	0.570	27.2	0.0	4.8	6.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.45
425	BL	4	40.60	0.571	27.2	0.0	4.8	6.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.46
426	BL	4	40.40	0.571	27.2	0.0	4.8	6.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.46
427	BL	4	40.20	0.572	27.2	0.0	4.7	6.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.46
428	BL	4	40.00	0.572	27.2	0.0	4.7	6.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.47
429	BL	4	39.80	0.573	27.2	0.0	4.7	6.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.47
430	BL	4	39.60	0.574	27.3	0.0	4.7	6.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.48
431	BL	4	39.40	0.574	27.3	0.0	4.6	6.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.48
432	BL	4	39.20	0.575	27.3	0.0	4.6	6.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.48
433	BL	4	39.00	0.575	27.3	0.0	4.6	6.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.49
434	BL	4	38.80	0.576	27.3	0.0	4.5	6.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.49
435	BL	4	38.60	0.576	27.4	0.0	4.5	6.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.50
436	BL	4	38.40	0.577	27.4	0.0	4.5	6.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.50
437	BL	4	38.20	0.577	27.4	0.0	4.4	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.50
438	BL	4	38.00	0.578	27.4	0.0	4.4	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.51

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	DISP m²/s	ADVEC m	MEAN DEPTH m	DO m/s	REAER m/s	BOD1 mg/L	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	SOD g/m²/d
439	BL 4	37.80	0.578	27.4	0.0	4.4	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.51
440	BL 4	37.60	0.579	27.4	0.0	4.3	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.51
441	BL 4	37.40	0.579	27.5	0.0	4.3	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.52
442	BL 4	37.20	0.580	27.5	0.0	4.3	6.3	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.52
443	BL 4	37.00	0.580	27.5	0.0	4.3	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.53
444	BL 4	36.80	0.581	27.5	0.0	4.2	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.53
445	BL 4	36.60	0.582	27.5	0.0	4.2	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.53
446	BL 4	36.40	0.582	27.5	0.0	4.2	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.54
447	BL 4	36.20	0.583	27.6	0.0	4.2	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.54
448	BL 4	36.00	0.583	27.6	0.0	4.1	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.08	0.00	0.00	0.00	0.16	3.55
449	BL 4	35.80	0.584	27.6	0.0	4.1	6.4	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	3.55
450	CL 5	35.60	0.584	27.6	0.0	4.1	6.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	2.59
451	CL 5	35.40	0.585	27.7	0.0	4.1	6.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	2.59
452	CL 5	35.20	0.585	27.7	0.0	4.1	6.5	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	2.60
453	CL 5	35.00	0.586	27.7	0.0	4.1	6.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	2.60
454	CL 5	34.80	0.586	27.7	0.0	4.1	6.6	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.092	0.09	0.00	0.00	0.00	0.16	2.60
455	CL 5	34.60	0.587	27.8	0.0	4.1	6.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.093	0.09	0.00	0.00	0.00	0.16	2.61
456	CL 5	34.40	0.587	27.8	0.0	4.1	6.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.093	0.09	0.00	0.00	0.00	0.16	2.61
457	CL 5	34.20	0.588	27.8	0.0	4.1	6.7	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.9	0.093	0.09	0.00	0.00	0.00	0.16	2.62
458	CL 5	34.00	0.589	27.8	0.0	4.1	6.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.62
459	CL 5	33.80	0.589	27.9	0.0	4.1	6.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.63
460	CL 5	33.60	0.590	27.9	0.0	4.1	6.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.63
461	CL 5	33.40	0.590	27.9	0.0	4.1	6.8	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.63
462	CL 5	33.20	0.591	27.9	0.0	4.1	6.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.64
463	CL 5	33.00	0.591	28.0	0.0	4.1	6.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.64
464	CL 5	32.80	0.592	28.0	0.0	4.1	6.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.65
465	CL 5	32.60	0.592	28.0	0.0	4.1	6.9	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.65
466	CL 5	32.40	0.593	28.1	0.0	4.1	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.16	2.66
467	CL 5	32.20	0.593	28.1	0.0	4.1	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.66
468	CL 5	32.00	0.594	28.1	0.0	4.1	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.67
469	CL 5	31.80	0.594	28.1	0.0	4.1	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.67
470	CL 5	31.60	0.595	28.2	0.0	4.1	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.68
471	CL 5	31.40	0.595	28.2	0.0	4.0	7.0	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.68
472	CL 5	31.20	0.596	28.2	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.68
473	CL 5	31.00	0.597	28.2	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.69
474	CL 5	30.80	0.597	28.3	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.69
475	CL 5	30.60	0.598	28.3	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.70
476	CL 5	30.40	0.598	28.3	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.70
477	CL 5	30.20	0.599	28.4	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.093	0.09	0.00	0.00	0.00	0.17	2.71
478	CL 5	30.00	0.599	28.4	0.0	4.0	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.71
479	CL 5	29.80	0.600	28.4	0.0	3.9	7.1	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.72
480	CL 5	29.60	0.600	28.4	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.72
481	CL 5	29.40	0.601	28.5	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.73
482	CL 5	29.20	0.601	28.5	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.73
483	CL 5	29.00	0.602	28.5	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.73

484	CL	5	28.80	0.602	28.5	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.8	0.094	0.09	0.00	0.00	0.00	0.17	2.74
485	CL	5	28.60	0.603	28.6	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.74
486	CL	5	28.40	0.603	28.6	0.0	3.9	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.75
487	CL	5	28.20	0.604	28.6	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.75
488	CL	5	28.00	0.605	28.6	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.76
489	CL	5	27.80	0.605	28.7	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.76
490	CL	5	27.60	0.606	28.7	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.77
491	CL	5	27.40	0.606	28.7	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.77
492	CL	5	27.20	0.607	28.8	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.78
493	CL	5	27.00	0.607	28.8	0.0	3.8	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.78
494	CL	5	26.80	0.608	28.8	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.79
495	CL	5	26.60	0.608	28.8	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.79
496	CL	5	26.40	0.609	28.9	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.80
497	CL	5	26.20	0.609	28.9	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.80
498	CL	5	26.00	0.610	28.9	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.80
499	CL	5	25.80	0.610	28.9	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.094	0.09	0.00	0.00	0.00	0.17	2.81
500	CL	5	25.60	0.611	29.0	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.81
501	CL	5	25.40	0.611	29.0	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.82
502	CL	5	25.20	0.612	29.0	0.0	3.7	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.82
503	CL	5	25.00	0.613	29.0	0.0	3.6	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.83
504	CL	5	24.80	0.613	29.1	0.0	3.6	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.006	0.006	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.83
DIVERSION # 505 (Clear Lake out) LEAVES HERE																									
505	CL	5	24.60	0.307	29.1	0.0	3.6	7.2	0.0	1.6	0.2	20.0	0.0	10.00	10.0	0.003	0.003	7.7	0.095	0.09	0.00	0.00	0.00	0.17	2.84
506	PA	6	24.40	0.307	29.1	0.0	3.5	7.3	0.0	1.6	0.2	20.4	0.0	10.00	10.0	0.003	0.003	7.7	0.095	0.09	0.00	0.00	0.00	0.17	4.45
507	PA	6	24.20	0.307	29.2	0.0	3.4	7.4	0.0	1.6	0.2	20.8	0.0	10.00	10.0	0.003	0.003	7.7	0.095	0.09	0.00	0.00	0.00	0.17	4.46
508	PA	6	24.00	0.307	29.2	0.0	3.3	7.4	0.0	1.6	0.2	21.3	0.0	10.00	10.0	0.003	0.003	7.7	0.095	0.09	0.00	0.00	0.00	0.17	4.47
509	PA	6	23.80	0.307	29.3	0.0	3.2	7.5	0.0	1.6	0.2	21.7	0.0	10.00	10.0	0.003	0.003	7.7	0.095	0.09	0.00	0.00	0.00	0.17	4.49
510	PA	6	23.60	0.307	29.3	0.0	3.1	7.5	0.0	1.6	0.2	22.1	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.50
511	PA	6	23.40	0.307	29.4	0.0	3.1	7.6	0.0	1.6	0.2	22.5	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.51

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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	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
512	PA 6	23.20	0.307	29.4	0.0	3.0	7.6	0.0	1.6	0.2	23.0	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.52
513	PA 6	23.00	0.307	29.5	0.0	3.0	7.7	0.0	1.6	0.2	23.4	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.54
514	PA 6	22.80	0.307	29.5	0.0	2.9	7.7	0.0	1.6	0.2	23.8	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.55
515	PA 6	22.60	0.307	29.6	0.0	2.9	7.7	0.0	1.6	0.2	24.2	0.0	10.00	10.0	0.003	0.003	7.6	0.095	0.09	0.00	0.00	0.00	0.17	4.56
516	PA 6	22.40	0.307	29.6	0.0	2.9	7.7	0.0	1.6	0.2	24.7	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.58
517	PA 6	22.20	0.307	29.6	0.0	2.9	7.8	0.0	1.6	0.2	25.1	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.59
518	PA 6	22.00	0.307	29.7	0.0	2.9	7.8	0.0	1.6	0.2	25.5	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.60
519	PA 6	21.80	0.307	29.7	0.0	2.9	7.8	0.0	1.6	0.2	25.9	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.62
520	PA 6	21.60	0.307	29.8	0.0	3.0	7.8	0.0	1.6	0.2	26.4	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.63
521	PA 6	21.40	0.307	29.8	0.0	3.0	7.8	0.0	1.6	0.2	26.8	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.64
522	PA 6	21.20	0.307	29.9	0.0	3.0	7.9	0.0	1.6	0.2	27.2	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.66
523	PA 6	21.00	0.307	29.9	0.0	3.1	7.9	0.0	1.6	0.2	27.6	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.67
524	PA 6	20.80	0.307	30.0	0.0	3.1	7.9	0.0	1.6	0.2	28.1	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.09	0.00	0.00	0.00	0.17	4.68
525	PA 6	20.60	0.307	30.0	0.0	3.2	7.9	0.0	1.6	0.2	28.5	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.10	0.00	0.00	0.00	0.18	4.70
526	PA 6	20.40	0.307	30.1	0.0	3.2	7.9	0.0	1.6	0.2	28.9	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.10	0.00	0.00	0.00	0.18	4.71
527	PA 6	20.20	0.307	30.1	0.0	3.3	7.9	0.0	1.6	0.2	29.3	0.0	10.00	10.0	0.003	0.003	7.5	0.096	0.10	0.00	0.00	0.00	0.18	4.72
528	PA 6	20.00	0.307	30.1	0.0	3.4	7.9	0.0	1.6	0.2	29.8	0.0	10.00	10.0	0.003	0.003	7.5	0.096	0.10	0.00	0.00	0.00	0.18	4.74
529	PA 6	19.80	0.307	30.2	0.0	3.4	7.9	0.0	1.6	0.2	30.2	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.18	4.75
530	PA 6	19.60	0.307	30.2	0.0	3.5	7.9	0.0	1.6	0.2	30.6	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.18	4.76
531	PA 6	19.40	0.307	30.3	0.0	3.6	7.9	0.0	1.6	0.2	31.0	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.78
532	PA 6	19.20	0.307	30.3	0.0	3.7	7.9	0.0	1.6	0.2	31.5	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.79
533	PA 6	19.00	0.307	30.4	0.0	3.8	7.9	0.0	1.6	0.2	31.9	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.80
534	PA 6	18.80	0.307	30.4	0.0	3.9	7.9	0.0	1.6	0.2	32.3	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.82
535	PA 6	18.60	0.307	30.5	0.0	4.0	7.9	0.0	1.6	0.2	32.7	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.83
536	PA 6	18.40	0.307	30.5	0.0	4.1	7.9	0.0	1.6	0.2	33.2	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.19	4.85
537	PA 6	18.20	0.307	30.6	0.0	4.2	7.9	0.0	1.6	0.2	33.6	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.20	4.86
538	PA 6	18.00	0.307	30.6	0.0	4.3	7.9	0.0	1.6	0.2	34.0	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.10	0.00	0.00	0.00	0.20	4.87
WASTELOAD # 539 (Saline Lake) ENTERS HERE																							
539	BB 7	17.80	0.782	30.6	0.0	4.1	5.0	0.0	1.5	0.2	34.8	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.20	12.66
540	BB 7	17.60	0.782	30.6	0.0	4.1	5.3	0.0	1.5	0.2	35.6	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.64
541	BB 7	17.40	0.782	30.5	0.0	4.0	5.5	0.0	1.5	0.2	36.4	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.62
542	BB 7	17.20	0.782	30.5	0.0	3.9	5.8	0.0	1.5	0.2	37.2	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.61
543	BB 7	17.00	0.782	30.5	0.0	3.8	6.1	0.0	1.6	0.2	38.0	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.59
544	BB 7	16.80	0.782	30.5	0.0	3.8	6.3	0.0	1.6	0.2	38.8	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.58
545	BB 7	16.60	0.782	30.5	0.0	3.7	6.6	0.0	1.6	0.2	39.6	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.56
546	BB 7	16.40	0.782	30.4	0.0	3.6	6.8	0.0	1.6	0.2	40.4	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.54
547	BB 7	16.20	0.782	30.4	0.0	3.6	7.1	0.0	1.6	0.2	41.2	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.19	12.53
548	BB 7	16.00	0.782	30.4	0.0	3.5	7.3	0.0	1.7	0.2	42.0	0.0	10.00	10.0	0.008	0.008	7.5	0.097	0.10	0.00	0.00	0.00	0.18	12.51
TRIBUTARY # 549 (Praire) ENTERS HERE																							
579	SB 10	15.80	1.089	30.4	0.0	3.0	10.6	0.0	1.6	0.2	42.3	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.73
580	SB 10	15.60	1.089	30.4	0.0	3.0	10.5	0.0	1.6	0.2	42.6	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.73
581	SB 10	15.40	1.089	30.4	0.0	2.9	10.5	0.0	1.6	0.2	42.9	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.73
582	SB 10	15.20	1.089	30.4	0.0	2.9	10.4	0.0	1.6	0.2	43.2	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.72
583	SB 10	15.00	1.089	30.4	0.0	2.9	10.4	0.0	1.6	0.2	43.5	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.72
584	SB 10	14.80	1.089	30.4	0.0	2.9	10.4	0.0	1.6	0.2	43.8	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.72

585	SB	10	14.60	1.089	30.3	0.0	2.9	10.3	0.0	1.6	0.2	44.2	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.71
586	SB	10	14.40	1.089	30.3	0.0	2.9	10.3	0.0	1.6	0.2	44.5	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.71
587	SB	10	14.20	1.089	30.3	0.0	2.9	10.3	0.0	1.6	0.2	44.8	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.71
588	SB	10	14.00	1.089	30.3	0.0	2.9	10.2	0.0	1.6	0.2	45.1	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.71
589	SB	10	13.80	1.089	30.3	0.0	2.9	10.2	0.0	1.6	0.2	45.4	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.70
590	SB	10	13.60	1.089	30.3	0.0	2.9	10.2	0.0	1.6	0.2	45.7	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.70
591	SB	10	13.40	1.089	30.3	0.0	3.0	10.1	0.0	1.6	0.2	46.0	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.70
592	SB	10	13.20	1.089	30.3	0.0	3.0	10.1	0.0	1.6	0.2	46.3	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.17	6.69
593	SB	10	13.00	1.089	30.3	0.0	3.0	10.1	0.0	1.6	0.2	46.6	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.69
594	SB	10	12.80	1.089	30.3	0.0	3.1	10.0	0.0	1.6	0.2	46.9	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.69
595	SB	10	12.60	1.089	30.3	0.0	3.1	10.0	0.0	1.6	0.2	47.2	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.68
596	SB	10	12.40	1.089	30.3	0.0	3.1	10.0	0.0	1.6	0.2	47.5	0.0	4.57	50.6	0.005	0.005	7.5	0.212	0.10	0.00	0.00	0.00	0.18	6.68
597	SB	10	12.20	1.089	30.3	0.0	3.2	10.0	0.0	1.6	0.2	47.8	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.68
598	SB	10	12.00	1.089	30.2	0.0	3.2	10.0	0.0	1.6	0.2	48.2	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.67
599	SB	10	11.80	1.089	30.2	0.0	3.3	9.9	0.0	1.6	0.2	48.5	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.67
600	SB	10	11.60	1.089	30.2	0.0	3.3	9.9	0.0	1.6	0.2	48.8	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.67
601	SB	10	11.40	1.089	30.2	0.0	3.4	9.9	0.0	1.6	0.2	49.1	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.66
602	SB	10	11.20	1.089	30.2	0.0	3.4	9.9	0.0	1.6	0.2	49.4	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.66
603	SB	10	11.00	1.089	30.2	0.0	3.5	9.9	0.0	1.6	0.2	49.7	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.66
604	SB	10	10.80	1.089	30.2	0.0	3.5	9.9	0.0	1.6	0.2	50.0	0.0	4.57	50.6	0.005	0.005	7.5	0.211	0.10	0.00	0.00	0.00	0.18	6.65
605	SB	11	10.60	1.089	30.2	0.0	3.5	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
606	SB	11	10.40	1.089	30.2	0.0	3.4	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
607	SB	11	10.20	1.089	30.2	0.0	3.4	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
608	SB	11	10.00	1.089	30.2	0.0	3.3	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
609	SB	11	9.80	1.089	30.2	0.0	3.3	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
610	SB	11	9.60	1.089	30.2	0.0	3.2	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
611	SB	11	9.40	1.089	30.2	0.0	3.2	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
612	SB	11	9.20	1.089	30.2	0.0	3.2	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
613	SB	11	9.00	1.089	30.2	0.0	3.2	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
614	SB 11	8.80	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
615	SB 11	8.60	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
616	SB 11	8.40	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.18	7.70
617	SB 11	8.20	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
618	SB 11	8.00	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
619	SB 11	7.80	1.089	30.2	0.0	3.1	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
620	SB 11	7.60	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
621	SB 11	7.40	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
622	SB 11	7.20	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
623	SB 11	7.00	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
624	SB 11	6.80	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
625	SB 11	6.60	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
626	SB 11	6.40	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
627	SB 11	6.20	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
628	SB 11	6.00	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
629	SB 11	5.80	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
630	SB 11	5.60	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
631	SB 11	5.40	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
632	SB 11	5.20	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
633	SB 11	5.00	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
634	SB 11	4.80	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
635	SB 11	4.60	1.089	30.2	0.0	3.0	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
636	SB 11	4.40	1.089	30.2	0.0	2.9	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
637	SB 11	4.20	1.089	30.2	0.0	2.9	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
638	SB 11	4.00	1.089	30.2	0.0	2.9	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
639	SB 11	3.80	1.089	30.2	0.0	2.9	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
640	SB 11	3.60	1.089	30.2	0.0	2.9	9.9	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
641	SB 11	3.40	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
642	SB 11	3.20	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
643	SB 11	3.00	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
644	SB 11	2.80	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
645	SB 11	2.60	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
646	SB 11	2.40	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
647	SB 11	2.20	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
648	SB 11	2.00	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
649	SB 11	1.80	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
650	SB 11	1.60	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
651	SB 11	1.40	1.089	30.2	0.0	2.9	10.0	0.0	1.6	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
652	SB 11	1.20	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
653	SB 11	1.00	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
654	SB 11	0.80	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
655	SB 11	0.60	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
656	SB 11	0.40	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
657	SB 11	0.20	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70
658	SB 11	0.00	1.089	30.2	0.0	2.9	10.0	0.0	1.7	0.2	50.0	0.0	4.57	61.5	0.004	0.004	7.5	0.211	0.10	0.00	0.00	0.00	0.17	7.70

EXPANDED CAPSULE SUMMARY FOR Praire

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 DEPTH m/s	MEAN WIDTH m/s	DO VELO mg/L	REAER VELO 1/da	BOD1 SAT 1/da	BOD1 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	SOD g/m²/d
549	BL 8	5.80	0.307	29.8	0.0	4.1	7.7	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.19	12.05
550	BL 8	5.60	0.307	29.8	0.0	4.6	8.2	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.19	12.05
551	BL 8	5.40	0.307	29.8	0.0	4.9	8.6	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.19	12.05
552	BL 8	5.20	0.307	29.8	0.0	5.2	9.0	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
553	BL 8	5.00	0.307	29.8	0.0	5.5	9.3	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
554	BL 8	4.80	0.307	29.8	0.0	5.7	9.7	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
555	BL 8	4.60	0.307	29.8	0.0	5.9	10.0	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
556	BL 8	4.40	0.307	29.8	0.0	6.0	10.2	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
557	BL 8	4.20	0.307	29.8	0.0	6.1	10.5	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
558	BL 8	4.00	0.307	29.8	0.0	6.2	10.7	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
559	BL 8	3.80	0.307	29.8	0.0	6.3	10.9	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
560	BL 8	3.60	0.307	29.8	0.0	6.3	11.1	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
561	BL 8	3.40	0.307	29.8	0.0	6.3	11.2	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
562	BL 8	3.20	0.307	29.8	0.0	6.4	11.4	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
563	BL 8	3.00	0.307	29.8	0.0	6.4	11.5	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
564	BL 8	2.80	0.307	29.8	0.0	6.3	11.7	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
565	BL 8	2.60	0.307	29.8	0.0	6.3	11.8	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
566	BL 8	2.40	0.307	29.8	0.0	6.3	11.9	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
567	BL 8	2.20	0.307	29.8	0.0	6.2	12.0	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
568	BL 8	2.00	0.307	29.8	0.0	6.2	12.1	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
569	BL 8	1.80	0.307	29.8	0.0	6.2	12.2	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
570	BL 8	1.60	0.307	29.8	0.0	6.1	12.2	0.0	1.6	0.2	75.0	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	12.05
571	SB 9	1.40	0.307	29.9	0.0	6.2	13.4	0.0	1.6	0.2	70.9	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	7.36
572	SB 9	1.20	0.307	29.9	0.0	6.1	14.5	0.0	1.6	0.2	66.8	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	7.39
573	SB 9	1.00	0.307	30.0	0.0	5.7	15.5	0.0	1.6	0.2	62.6	0.0	10.00	10.0	0.003	0.003	7.6	0.096	0.13	0.00	0.00	0.00	0.20	7.43
574	SB 9	0.80	0.307	30.1	0.0	5.3	16.3	0.0	1.6	0.2	58.5	0.0	10.00	10.0	0.003	0.003	7.5	0.096	0.13	0.00	0.00	0.00	0.20	7.46
575	SB 9	0.60	0.307	30.2	0.0	4.6	17.1	0.0	1.6	0.2	54.4	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.13	0.00	0.00	0.00	0.20	7.50
576	SB 9	0.40	0.307	30.2	0.0	3.9	17.9	0.0	1.6	0.2	50.2	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.13	0.00	0.00	0.00	0.19	7.53
577	SB 9	0.20	0.307	30.3	0.0	3.0	18.5	0.0	1.6	0.2	46.1	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.13	0.00	0.00	0.00	0.18	7.57
578	SB 9	0.00	0.307	30.4	0.0	2.0	19.1	0.0	1.6	0.2	42.0	0.0	10.00	10.0	0.003	0.003	7.5	0.097	0.13	0.00	0.00	0.00	0.16	7.60

SPECIAL REPORT: Black Lake Bayou
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
1	125.400	23.42	0.0	0.0	0.0	4.50	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.62	0.00	75.2	0.0	0.	0.00
2	125.200	23.44	0.0	0.0	0.0	4.76	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	74.4	0.0	0.	0.00
3	125.000	23.46	0.0	0.0	0.0	4.99	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	73.6	0.0	0.	0.00
4	124.800	23.47	0.0	0.0	0.0	5.19	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	72.8	0.0	0.	0.00
5	124.600	23.49	0.0	0.0	0.0	5.37	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	72.0	0.0	0.	0.00
6	124.400	23.51	0.0	0.0	0.0	5.52	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	71.2	0.0	0.	0.00
7	124.200	23.53	0.0	0.0	0.0	5.65	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	70.4	0.0	0.	0.00

8	124.000	23.55	0.0	0.0	0.0	5.76	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	69.6	0.0	0.	0.00
9	123.800	23.57	0.0	0.0	0.0	5.86	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	68.8	0.0	0.	0.00
10	123.600	23.59	0.0	0.0	0.0	5.94	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	68.0	0.0	0.	0.00
11	123.400	23.60	0.0	0.0	0.0	6.02	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	67.2	0.0	0.	0.00
12	123.200	23.62	0.0	0.0	0.0	6.08	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	66.4	0.0	0.	0.00
13	123.000	23.64	0.0	0.0	0.0	6.13	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	65.6	0.0	0.	0.00
14	122.800	23.66	0.0	0.0	0.0	6.17	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	64.8	0.0	0.	0.00
15	122.600	23.68	0.0	0.0	0.0	6.21	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	64.0	0.0	0.	0.00
16	122.400	23.70	0.0	0.0	0.0	6.24	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	63.2	0.0	0.	0.00
17	122.200	23.72	0.0	0.0	0.0	6.26	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	62.4	0.0	0.	0.00
18	122.000	23.73	0.0	0.0	0.0	6.28	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	61.6	0.0	0.	0.00
19	121.800	23.75	0.0	0.0	0.0	6.29	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	60.8	0.0	0.	0.00
20	121.600	23.77	0.0	0.0	0.0	6.30	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	60.0	0.0	0.	0.00
21	121.400	23.79	0.0	0.0	0.0	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	59.2	0.0	0.	0.00
22	121.200	23.81	0.0	0.0	0.0	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	58.4	0.0	0.	0.00
23	121.000	23.83	0.0	0.0	0.0	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	57.6	0.0	0.	0.00
24	120.800	23.85	0.0	0.0	0.0	6.31	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.62	0.00	56.8	0.0	0.	0.00
25	120.600	23.86	0.0	0.0	0.0	6.31	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	56.0	0.0	0.	0.00
26	120.400	23.88	0.0	0.0	0.0	6.30	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	55.2	0.0	0.	0.00
27	120.200	23.90	0.0	0.0	0.0	6.30	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	54.4	0.0	0.	0.00
28	120.000	23.92	0.0	0.0	0.0	6.29	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	53.6	0.0	0.	0.00
29	119.800	23.94	0.0	0.0	0.0	6.28	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	52.8	0.0	0.	0.00
30	119.600	23.96	0.0	0.0	0.0	6.27	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	52.0	0.0	0.	0.00
31	119.400	23.98	0.0	0.0	0.0	6.26	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	51.2	0.0	0.	0.00
32	119.200	23.99	0.0	0.0	0.0	6.24	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	50.4	0.0	0.	0.00
33	119.000	24.01	0.0	0.0	0.0	6.23	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	49.6	0.0	0.	0.00
34	118.800	24.03	0.0	0.0	0.0	6.21	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	48.8	0.0	0.	0.00
35	118.600	24.05	0.0	0.0	0.0	6.20	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	48.0	0.0	0.	0.00
36	118.400	24.07	0.0	0.0	0.0	6.18	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	47.2	0.0	0.	0.00
37	118.200	24.09	0.0	0.0	0.0	6.17	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	46.4	0.0	0.	0.00
38	118.000	24.11	0.0	0.0	0.0	6.15	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	45.6	0.0	0.	0.00
39	117.800	24.12	0.0	0.0	0.0	6.13	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	44.8	0.0	0.	0.00
40	117.600	24.14	0.0	0.0	0.0	6.12	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	44.0	0.0	0.	0.00
41	117.400	24.16	0.0	0.0	0.0	6.10	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	43.2	0.0	0.	0.00
42	117.200	24.18	0.0	0.0	0.0	6.08	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	42.4	0.0	0.	0.00
43	117.000	24.20	0.0	0.0	0.0	6.06	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	41.6	0.0	0.	0.00
44	116.800	24.22	0.0	0.0	0.0	6.04	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.62	0.00	40.8	0.0	0.	0.00
45	116.600	24.24	0.0	0.0	0.0	6.02	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.62	0.00	40.0	0.0	0.	0.00
46	116.400	24.25	0.0	0.0	0.0	6.00	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	39.2	0.0	0.	0.00
47	116.200	24.27	0.0	0.0	0.0	5.98	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	38.4	0.0	0.	0.00
48	116.000	24.29	0.0	0.0	0.0	5.96	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	37.6	0.0	0.	0.00
49	115.800	24.31	0.0	0.0	0.0	5.94	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	36.8	0.0	0.	0.00
50	115.600	24.33	0.0	0.0	0.0	5.92	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	36.0	0.0	0.	0.00
51	115.400	24.35	0.0	0.0	0.0	5.90	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	35.2	0.0	0.	0.00
52	115.200	24.37	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	34.4	0.0	0.	0.00
53	115.000	24.38	0.0	0.0	0.0	5.86	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	33.6	0.0	0.	0.00
54	114.800	24.40	0.0	0.0	0.0	5.84	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	32.8	0.0	0.	0.00
55	114.600	24.42	0.0	0.0	0.0	5.82	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	32.0	0.0	0.	0.00
56	114.400	24.44	0.0	0.0	0.0	5.80	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	31.2	0.0	0.	0.00
57	114.200	24.46	0.0	0.0	0.0	5.78	2.47	0.00	2.47	0.00	1.40	0.22	0.00	1.61	0.00	30.4	0.0	0.	0.00
58	114.000	24.48	0.0	0.0	0.0	5.76	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	29.6	0.0	0.	0.00

59	113.800	24.50	0.0	0.0	0.0	5.74	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	28.8	0.0	0.	0.00
60	113.600	24.51	0.0	0.0	0.0	5.72	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	28.0	0.0	0.	0.00
61	113.400	24.53	0.0	0.0	0.0	5.70	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	27.2	0.0	0.	0.00
62	113.200	24.55	0.0	0.0	0.0	5.68	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	26.4	0.0	0.	0.00
63	113.000	24.57	0.0	0.0	0.0	5.66	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	25.6	0.0	0.	0.00
64	112.800	24.59	0.0	0.0	0.0	5.63	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	24.8	0.0	0.	0.00
65	112.600	24.61	0.0	0.0	0.0	5.61	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	24.0	0.0	0.	0.00
66	112.400	24.63	0.0	0.0	0.0	5.59	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	23.2	0.0	0.	0.00
67	112.200	24.64	0.0	0.0	0.0	5.57	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	22.4	0.0	0.	0.00
68	112.000	24.66	0.0	0.0	0.0	5.55	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	21.6	0.0	0.	0.00
69	111.800	24.68	0.0	0.0	0.0	5.53	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.8	0.0	0.	0.00
70	111.600	24.70	0.0	0.0	0.0	5.51	2.44	0.00	2.44	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
71	111.400	24.70	0.0	0.0	0.0	5.53	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
72	111.200	24.70	0.0	0.0	0.0	5.54	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
73	111.000	24.70	0.0	0.0	0.0	5.56	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
74	110.800	24.70	0.0	0.0	0.0	5.57	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
75	110.600	24.71	0.0	0.0	0.0	5.58	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
76	110.400	24.71	0.0	0.0	0.0	5.59	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
77	110.200	24.71	0.0	0.0	0.0	5.60	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
78	110.000	24.71	0.0	0.0	0.0	5.61	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
79	109.800	24.71	0.0	0.0	0.0	5.62	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
80	109.600	24.71	0.0	0.0	0.0	5.63	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
81	109.400	24.71	0.0	0.0	0.0	5.63	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
82	109.200	24.71	0.0	0.0	0.0	5.64	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
83	109.000	24.72	0.0	0.0	0.0	5.64	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
84	108.800	24.72	0.0	0.0	0.0	5.65	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
85	108.600	24.72	0.0	0.0	0.0	5.65	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
86	108.400	24.72	0.0	0.0	0.0	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
87	108.200	24.72	0.0	0.0	0.0	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
88	108.000	24.72	0.0	0.0	0.0	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
89	107.800	24.72	0.0	0.0	0.0	5.67	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
90	107.600	24.72	0.0	0.0	0.0	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.61	0.00	20.0	0.0	0.	0.00
91	107.400	24.72	0.0	0.0	0.0	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
92	107.200	24.73	0.0	0.0	0.0	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
93	107.000	24.73	0.0	0.0	0.0	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
94	106.800	24.73	0.0	0.0	0.0	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
95	106.600	24.73	0.0	0.0	0.0	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
96	106.400	24.73	0.0	0.0	0.0	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
97	106.200	24.73	0.0	0.0	0.0	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
98	106.000	24.73	0.0	0.0	0.0	5.68	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
99	105.800	24.73	0.0	0.0	0.0	5.68	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
100	105.600	24.74	0.0	0.0	0.0	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
101	105.400	24.74	0.0	0.0	0.0	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
102	105.200	24.74	0.0	0.0	0.0	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
103	105.000	24.74	0.0	0.0	0.0	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
104	104.800	24.74	0.0	0.0	0.0	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
105	104.600	24.74	0.0	0.0	0.0	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
106	104.400	24.74	0.0	0.0	0.0	5.69	2.54	0.00	2.54	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
107	104.200	24.74	0.0	0.0	0.0	5.69	2.54	0.00	2.54	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
108	104.000	24.74	0.0	0.0	0.0	5.69	2.55	0.00	2.55	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
109	103.800	24.75	0.0	0.0	0.0	5.70	2.55	0.00	2.55	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00

110	103.600	24.75	0.0	0.0	0.0	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
111	103.400	24.75	0.0	0.0	0.0	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
112	103.200	24.75	0.0	0.0	0.0	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
113	103.000	24.75	0.0	0.0	0.0	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
114	102.800	24.75	0.0	0.0	0.0	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
115	102.600	24.75	0.0	0.0	0.0	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
116	102.400	24.75	0.0	0.0	0.0	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
117	102.200	24.75	0.0	0.0	0.0	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
118	102.000	24.76	0.0	0.0	0.0	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
119	101.800	24.76	0.0	0.0	0.0	5.53	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
120	101.600	24.76	0.0	0.0	0.0	5.56	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
121	101.400	24.76	0.0	0.0	0.0	5.58	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
122	101.200	24.76	0.0	0.0	0.0	5.60	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
123	101.000	24.76	0.0	0.0	0.0	5.62	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
124	100.800	24.76	0.0	0.0	0.0	5.63	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
125	100.600	24.76	0.0	0.0	0.0	5.65	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
126	100.400	24.77	0.0	0.0	0.0	5.66	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
127	100.200	24.77	0.0	0.0	0.0	5.68	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
128	100.000	24.77	0.0	0.0	0.0	5.69	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
129	99.800	24.77	0.0	0.0	0.0	5.70	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
130	99.600	24.77	0.0	0.0	0.0	5.71	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
131	99.400	24.77	0.0	0.0	0.0	5.71	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
132	99.200	24.77	0.0	0.0	0.0	5.72	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
133	99.000	24.77	0.0	0.0	0.0	5.73	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
134	98.800	24.77	0.0	0.0	0.0	5.74	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
135	98.600	24.78	0.0	0.0	0.0	5.74	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
136	98.400	24.78	0.0	0.0	0.0	5.75	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
137	98.200	24.78	0.0	0.0	0.0	5.75	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
138	98.000	24.78	0.0	0.0	0.0	5.76	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
139	97.800	24.78	0.0	0.0	0.0	5.76	2.57	0.00	2.57	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
140	97.600	24.78	0.0	0.0	0.0	5.76	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
141	97.400	24.78	0.0	0.0	0.0	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
142	97.200	24.78	0.0	0.0	0.0	5.66	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
143	97.000	24.79	0.0	0.0	0.0	5.68	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
144	96.800	24.79	0.0	0.0	0.0	5.69	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
145	96.600	24.79	0.0	0.0	0.0	5.71	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
146	96.400	24.79	0.0	0.0	0.0	5.72	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
147	96.200	24.79	0.0	0.0	0.0	5.73	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
148	96.000	24.79	0.0	0.0	0.0	5.74	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
149	95.800	24.79	0.0	0.0	0.0	5.75	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
150	95.600	24.79	0.0	0.0	0.0	5.76	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
151	95.400	24.79	0.0	0.0	0.0	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
152	95.200	24.80	0.0	0.0	0.0	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
153	95.000	24.80	0.0	0.0	0.0	5.78	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
154	94.800	24.80	0.0	0.0	0.0	5.79	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
155	94.600	24.80	0.0	0.0	0.0	5.79	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
156	94.400	24.80	0.0	0.0	0.0	5.80	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
157	94.200	24.80	0.0	0.0	0.0	5.80	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
158	94.000	24.80	0.0	0.0	0.0	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
159	93.800	24.80	0.0	0.0	0.0	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
160	93.600	24.81	0.0	0.0	0.0	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00

161	93.400	24.81	0.0	0.0	0.0	5.82	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
162	93.200	24.81	0.0	0.0	0.0	5.82	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
163	93.000	24.81	0.0	0.0	0.0	5.82	2.55	0.00	2.55	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
164	92.800	24.81	0.0	0.0	0.0	5.83	2.55	0.00	2.55	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
165	92.600	24.81	0.0	0.0	0.0	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
166	92.400	24.81	0.0	0.0	0.0	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
167	92.200	24.81	0.0	0.0	0.0	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
168	92.000	24.81	0.0	0.0	0.0	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
169	91.800	24.82	0.0	0.0	0.0	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
170	91.600	24.82	0.0	0.0	0.0	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
171	91.400	24.82	0.0	0.0	0.0	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
172	91.200	24.82	0.0	0.0	0.0	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
173	91.000	24.82	0.0	0.0	0.0	5.85	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
174	90.800	24.82	0.0	0.0	0.0	5.85	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
175	90.600	24.82	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
176	90.400	24.82	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
177	90.200	24.83	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
178	90.000	24.83	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
179	89.800	24.83	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
180	89.600	24.83	0.0	0.0	0.0	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
181	89.400	24.83	0.0	0.0	0.0	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
182	89.200	24.83	0.0	0.0	0.0	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
183	89.000	24.83	0.0	0.0	0.0	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
184	88.800	24.83	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
185	88.600	24.83	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
186	88.400	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
187	88.200	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
188	88.000	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
189	87.800	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
190	87.600	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
191	87.400	24.84	0.0	0.0	0.0	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
192	87.200	24.84	0.0	0.0	0.0	5.87	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
193	87.000	24.84	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
194	86.800	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
195	86.600	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
196	86.400	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
197	86.200	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
198	86.000	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
199	85.800	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
200	85.600	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
201	85.400	24.85	0.0	0.0	0.0	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
202	85.200	24.85	0.0	0.0	0.0	5.87	2.50	0.00	2.50	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
203	85.000	24.86	0.0	0.0	0.0	5.87	2.50	0.00	2.50	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
204	84.800	24.86	0.0	0.0	0.0	5.87	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
205	84.600	24.86	0.0	0.0	0.0	5.87	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
206	84.400	24.86	0.0	0.0	0.0	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
207	84.200	24.86	0.0	0.0	0.0	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
208	84.000	24.86	0.0	0.0	0.0	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
209	83.800	24.86	0.0	0.0	0.0	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
210	83.600	24.86	0.0	0.0	0.0	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
211	83.400	24.86	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00

212	83.200	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
213	83.000	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
214	82.800	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
215	82.600	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
216	82.400	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
217	82.200	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
218	82.000	24.87	0.0	0.0	0.0	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
219	81.800	24.87	0.0	0.0	0.0	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
220	81.600	24.88	0.0	0.0	0.0	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
221	81.400	24.88	0.0	0.0	0.0	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
222	81.200	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
223	81.000	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
224	80.800	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
225	80.600	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
226	80.400	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
227	80.200	24.88	0.0	0.0	0.0	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
228	80.000	24.88	0.0	0.0	0.0	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
229	79.800	24.89	0.0	0.0	0.0	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
230	79.600	24.89	0.0	0.0	0.0	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
231	79.400	24.89	0.0	0.0	0.0	5.78	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
232	79.200	24.89	0.0	0.0	0.0	5.79	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
233	79.000	24.89	0.0	0.0	0.0	5.81	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
234	78.800	24.89	0.0	0.0	0.0	5.82	2.47	0.00	2.47	0.00	1.34	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
235	78.601	24.89	0.0	0.0	0.0	5.83	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
236	78.401	24.89	0.0	0.0	0.0	5.83	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
237	78.201	24.90	0.0	0.0	0.0	5.84	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
238	78.001	24.90	0.0	0.0	0.0	5.85	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
239	77.801	24.90	0.0	0.0	0.0	5.86	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
240	77.601	24.90	0.0	0.0	0.0	5.86	2.46	0.00	2.46	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
241	77.401	24.90	0.0	0.0	0.0	5.87	2.46	0.00	2.46	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
242	77.200	24.91	0.0	0.0	0.0	5.81	2.45	0.00	2.45	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
243	77.000	24.92	0.0	0.0	0.0	5.76	2.45	0.00	2.45	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
244	76.800	24.93	0.0	0.0	0.0	5.71	2.44	0.00	2.44	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
245	76.600	24.94	0.0	0.0	0.0	5.66	2.43	0.00	2.43	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
246	76.400	24.95	0.0	0.0	0.0	5.62	2.42	0.00	2.42	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
247	76.200	24.96	0.0	0.0	0.0	5.58	2.41	0.00	2.41	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
248	76.000	24.97	0.0	0.0	0.0	5.55	2.40	0.00	2.40	0.00	1.35	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
249	75.800	24.98	0.0	0.0	0.0	5.51	2.39	0.00	2.39	0.00	1.36	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
250	75.600	24.99	0.0	0.0	0.0	5.48	2.39	0.00	2.39	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
251	75.400	25.00	0.0	0.0	0.0	5.46	2.38	0.00	2.38	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
252	75.200	25.01	0.0	0.0	0.0	5.43	2.37	0.00	2.37	0.00	1.36	0.21	0.00	1.57	0.00	20.0	0.0	0.	0.00
253	75.000	25.02	0.0	0.0	0.0	5.41	2.36	0.00	2.36	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
254	74.800	25.03	0.0	0.0	0.0	5.38	2.35	0.00	2.35	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
255	74.600	25.05	0.0	0.0	0.0	5.36	2.35	0.00	2.35	0.00	1.37	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
256	74.400	25.06	0.0	0.0	0.0	5.35	2.34	0.00	2.34	0.00	1.38	0.21	0.00	1.58	0.00	20.0	0.0	0.	0.00
257	74.200	25.07	0.0	0.0	0.0	5.33	2.33	0.00	2.33	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
258	74.000	25.08	0.0	0.0	0.0	5.31	2.32	0.00	2.32	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
259	73.800	25.09	0.0	0.0	0.0	5.30	2.31	0.00	2.31	0.00	1.38	0.21	0.00	1.59	0.00	20.0	0.0	0.	0.00
260	73.600	25.10	0.0	0.0	0.0	5.28	2.31	0.00	2.31	0.00	1.39	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
261	73.400	25.11	0.0	0.0	0.0	5.27	2.30	0.00	2.30	0.00	1.39	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
262	73.200	25.12	0.0	0.0	0.0	5.26	2.29	0.00	2.29	0.00	1.39	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00

263	73.000	25.13	0.0	0.0	0.0	5.25	2.28	0.00	2.28	0.00	1.40	0.21	0.00	1.60	0.00	20.0	0.0	0.	0.00
264	72.800	25.14	0.0	0.0	0.0	5.24	2.28	0.00	2.28	0.00	1.40	0.21	0.00	1.61	0.00	20.0	0.0	0.	0.00
265	72.600	25.15	0.0	0.0	0.0	5.23	2.27	0.00	2.27	0.00	1.40	0.21	0.00	1.61	0.00	20.0	0.0	0.	0.00
266	72.400	25.16	0.0	0.0	0.0	5.22	2.26	0.00	2.26	0.00	1.40	0.21	0.00	1.61	0.00	20.0	0.0	0.	0.00
267	72.200	25.17	0.0	0.0	0.0	5.21	2.25	0.00	2.25	0.00	1.41	0.21	0.00	1.62	0.00	20.0	0.0	0.	0.00
268	72.000	25.18	0.0	0.0	0.0	5.20	2.25	0.00	2.25	0.00	1.41	0.21	0.00	1.62	0.00	20.0	0.0	0.	0.00
269	71.800	25.19	0.0	0.0	0.0	5.20	2.24	0.00	2.24	0.00	1.41	0.21	0.00	1.62	0.00	20.0	0.0	0.	0.00
270	71.600	25.20	0.0	0.0	0.0	5.19	2.23	0.00	2.23	0.00	1.41	0.21	0.00	1.62	0.00	20.0	0.0	0.	0.00
271	71.400	25.21	0.0	0.0	0.0	5.18	2.22	0.00	2.22	0.00	1.42	0.21	0.00	1.63	0.00	20.0	0.0	0.	0.00
272	71.200	25.22	0.0	0.0	0.0	5.18	2.22	0.00	2.22	0.00	1.42	0.21	0.00	1.63	0.00	20.0	0.0	0.	0.00
273	71.000	25.23	0.0	0.0	0.0	5.17	2.21	0.00	2.21	0.00	1.42	0.21	0.00	1.63	0.00	20.0	0.0	0.	0.00
274	70.800	25.24	0.0	0.0	0.0	5.17	2.20	0.00	2.20	0.00	1.42	0.21	0.00	1.63	0.00	20.0	0.0	0.	0.00
275	70.600	25.25	0.0	0.0	0.0	5.16	2.20	0.00	2.20	0.00	1.43	0.21	0.00	1.64	0.00	20.0	0.0	0.	0.00
276	70.400	25.26	0.0	0.0	0.0	5.16	2.19	0.00	2.19	0.00	1.43	0.21	0.00	1.64	0.00	20.0	0.0	0.	0.00
277	70.200	25.27	0.0	0.0	0.0	5.15	2.18	0.00	2.18	0.00	1.43	0.21	0.00	1.64	0.00	20.0	0.0	0.	0.00
278	70.000	25.28	0.0	0.0	0.0	5.15	2.18	0.00	2.18	0.00	1.44	0.21	0.00	1.65	0.00	20.0	0.0	0.	0.00
279	69.800	25.29	0.0	0.0	0.0	5.14	2.17	0.00	2.17	0.00	1.44	0.21	0.00	1.65	0.00	20.0	0.0	0.	0.00
280	69.600	25.30	0.0	0.0	0.0	5.14	2.16	0.00	2.16	0.00	1.44	0.21	0.00	1.65	0.00	20.0	0.0	0.	0.00
281	69.400	25.31	0.0	0.0	0.0	5.14	2.15	0.00	2.15	0.00	1.44	0.21	0.00	1.65	0.00	20.0	0.0	0.	0.00
282	69.200	25.33	0.0	0.0	0.0	5.13	2.15	0.00	2.15	0.00	1.45	0.21	0.00	1.66	0.00	20.0	0.0	0.	0.00
283	69.000	25.34	0.0	0.0	0.0	5.13	2.14	0.00	2.14	0.00	1.45	0.21	0.00	1.66	0.00	20.0	0.0	0.	0.00
284	68.800	25.35	0.0	0.0	0.0	5.13	2.13	0.00	2.13	0.00	1.45	0.21	0.00	1.66	0.00	20.0	0.0	0.	0.00
285	68.600	25.36	0.0	0.0	0.0	5.12	2.13	0.00	2.13	0.00	1.45	0.21	0.00	1.66	0.00	20.0	0.0	0.	0.00
286	68.400	25.37	0.0	0.0	0.0	5.12	2.12	0.00	2.12	0.00	1.45	0.21	0.00	1.67	0.00	20.0	0.0	0.	0.00
287	68.200	25.38	0.0	0.0	0.0	5.12	2.12	0.00	2.12	0.00	1.46	0.21	0.00	1.67	0.00	20.0	0.0	0.	0.00
288	68.000	25.39	0.0	0.0	0.0	5.11	2.11	0.00	2.11	0.00	1.46	0.21	0.00	1.67	0.00	20.0	0.0	0.	0.00
289	67.800	25.40	0.0	0.0	0.0	5.11	2.10	0.00	2.10	0.00	1.46	0.21	0.00	1.67	0.00	20.0	0.0	0.	0.00
290	67.600	25.41	0.0	0.0	0.0	5.11	2.10	0.00	2.10	0.00	1.46	0.21	0.00	1.68	0.00	20.0	0.0	0.	0.00
291	67.400	25.42	0.0	0.0	0.0	5.11	2.09	0.00	2.09	0.00	1.47	0.21	0.00	1.68	0.00	20.0	0.0	0.	0.00
292	67.200	25.43	0.0	0.0	0.0	5.10	2.08	0.00	2.08	0.00	1.47	0.21	0.00	1.68	0.00	20.0	0.0	0.	0.00
293	67.000	25.44	0.0	0.0	0.0	5.10	2.08	0.00	2.08	0.00	1.47	0.21	0.00	1.68	0.00	20.0	0.0	0.	0.00
294	66.800	25.45	0.0	0.0	0.0	5.10	2.07	0.00	2.07	0.00	1.47	0.21	0.00	1.69	0.00	20.0	0.0	0.	0.00
295	66.600	25.46	0.0	0.0	0.0	5.10	2.06	0.00	2.06	0.00	1.48	0.21	0.00	1.69	0.00	20.0	0.0	0.	0.00
296	66.400	25.47	0.0	0.0	0.0	5.09	2.06	0.00	2.06	0.00	1.48	0.21	0.00	1.69	0.00	20.0	0.0	0.	0.00
297	66.200	25.48	0.0	0.0	0.0	5.09	2.05	0.00	2.05	0.00	1.48	0.21	0.00	1.69	0.00	20.0	0.0	0.	0.00
298	66.000	25.49	0.0	0.0	0.0	5.09	2.05	0.00	2.05	0.00	1.48	0.21	0.00	1.70	0.00	20.0	0.0	0.	0.00
299	65.800	25.50	0.0	0.0	0.0	5.09	2.04	0.00	2.04	0.00	1.49	0.21	0.00	1.70	0.00	20.0	0.0	0.	0.00
300	65.600	25.51	0.0	0.0	0.0	5.09	2.03	0.00	2.03	0.00	1.49	0.21	0.00	1.70	0.00	20.0	0.0	0.	0.00
301	65.400	25.52	0.0	0.0	0.0	5.08	2.03	0.00	2.03	0.00	1.49	0.21	0.00	1.70	0.00	20.0	0.0	0.	0.00
302	65.200	25.53	0.0	0.0	0.0	5.08	2.02	0.00	2.02	0.00	1.49	0.21	0.00	1.70	0.00	20.0	0.0	0.	0.00
303	65.000	25.54	0.0	0.0	0.0	5.08	2.02	0.00	2.02	0.00	1.49	0.21	0.00	1.71	0.00	20.0	0.0	0.	0.00
304	64.800	25.55	0.0	0.0	0.0	5.08	2.01	0.00	2.01	0.00	1.50	0.21	0.00	1.71	0.00	20.0	0.0	0.	0.00
305	64.600	25.56	0.0	0.0	0.0	5.07	2.00	0.00	2.00	0.00	1.50	0.21	0.00	1.71	0.00	20.0	0.0	0.	0.00
306	64.400	25.57	0.0	0.0	0.0	5.07	2.00	0.00	2.00	0.00	1.50	0.21	0.00	1.71	0.00	20.0	0.0	0.	0.00
307	64.200	25.58	0.0	0.0	0.0	5.07	1.99	0.00	1.99	0.00	1.50	0.21	0.00	1.72	0.00	20.0	0.0	0.	0.00
308	64.000	25.59	0.0	0.0	0.0	5.07	1.99	0.00	1.99	0.00	1.51	0.21	0.00	1.72	0.00	20.0	0.0	0.	0.00
309	63.800	25.61	0.0	0.0	0.0	5.07	1.98	0.00	1.98	0.00	1.51	0.21	0.00	1.72	0.00	20.0	0.0	0.	0.00
310	63.600	25.62	0.0	0.0	0.0	5.06	1.98	0.00	1.98	0.00	1.51	0.21	0.00	1.72	0.00	20.0	0.0	0.	0.00
311	63.400	25.63	0.0	0.0	0.0	5.06	1.97	0.00	1.97	0.00	1.51	0.21	0.00	1.73	0.00	20.0	0.0	0.	0.00
312	63.200	25.64	0.0	0.0	0.0	5.06	1.96	0.00	1.96	0.00	1.51	0.21	0.00	1.73	0.00	20.0	0.0	0.	0.00
313	63.000	25.65	0.0	0.0	0.0	5.06	1.96	0.00	1.96	0.00	1.52	0.21	0.00	1.73	0.00	20.0	0.0	0.	0.00

314	62.800	25.66	0.0	0.0	0.0	5.06	1.95	0.00	1.95	0.00	1.52	0.21	0.00	1.73	0.00	20.0	0.0	0.	0.00
315	62.600	25.67	0.0	0.0	0.0	5.05	1.95	0.00	1.95	0.00	1.52	0.22	0.00	1.73	0.00	20.0	0.0	0.	0.00
316	62.400	25.68	0.0	0.0	0.0	5.05	1.94	0.00	1.94	0.00	1.52	0.22	0.00	1.74	0.00	20.0	0.0	0.	0.00
317	62.200	25.69	0.0	0.0	0.0	5.05	1.94	0.00	1.94	0.00	1.52	0.22	0.00	1.74	0.00	20.0	0.0	0.	0.00
318	62.000	25.70	0.0	0.0	0.0	5.05	1.93	0.00	1.93	0.00	1.53	0.22	0.00	1.74	0.00	20.0	0.0	0.	0.00
319	61.800	25.71	0.0	0.0	0.0	5.05	1.93	0.00	1.93	0.00	1.53	0.22	0.00	1.74	0.00	20.0	0.0	0.	0.00
320	61.600	25.72	0.0	0.0	0.0	5.04	1.92	0.00	1.92	0.00	1.53	0.22	0.00	1.75	0.00	20.0	0.0	0.	0.00
321	61.400	25.73	0.0	0.0	0.0	5.04	1.92	0.00	1.92	0.00	1.53	0.22	0.00	1.75	0.00	20.0	0.0	0.	0.00
322	61.200	25.74	0.0	0.0	0.0	5.04	1.91	0.00	1.91	0.00	1.53	0.22	0.00	1.75	0.00	20.0	0.0	0.	0.00
323	61.000	25.75	0.0	0.0	0.0	5.04	1.91	0.00	1.91	0.00	1.54	0.22	0.00	1.75	0.00	20.0	0.0	0.	0.00
324	60.800	25.76	0.0	0.0	0.0	5.04	1.90	0.00	1.90	0.00	1.54	0.22	0.00	1.75	0.00	20.0	0.0	0.	0.00
325	60.600	25.77	0.0	0.0	0.0	5.04	1.89	0.00	1.89	0.00	1.54	0.22	0.00	1.76	0.00	20.0	0.0	0.	0.00
326	60.400	25.78	0.0	0.0	0.0	5.03	1.89	0.00	1.89	0.00	1.54	0.22	0.00	1.76	0.00	20.0	0.0	0.	0.00
327	60.200	25.79	0.0	0.0	0.0	5.03	1.88	0.00	1.88	0.00	1.54	0.22	0.00	1.76	0.00	20.0	0.0	0.	0.00
328	60.000	25.80	0.0	0.0	0.0	5.03	1.88	0.00	1.88	0.00	1.55	0.22	0.00	1.76	0.00	20.0	0.0	0.	0.00
329	59.800	25.81	0.0	0.0	0.0	5.03	1.87	0.00	1.87	0.00	1.55	0.22	0.00	1.76	0.00	20.0	0.0	0.	0.00
330	59.600	25.82	0.0	0.0	0.0	5.03	1.87	0.00	1.87	0.00	1.55	0.22	0.00	1.77	0.00	20.0	0.0	0.	0.00
331	59.400	25.83	0.0	0.0	0.0	5.02	1.86	0.00	1.86	0.00	1.55	0.22	0.00	1.77	0.00	20.0	0.0	0.	0.00
332	59.200	25.84	0.0	0.0	0.0	5.02	1.86	0.00	1.86	0.00	1.55	0.22	0.00	1.77	0.00	20.0	0.0	0.	0.00
333	59.000	25.85	0.0	0.0	0.0	5.02	1.85	0.00	1.85	0.00	1.56	0.22	0.00	1.77	0.00	20.0	0.0	0.	0.00
334	58.800	25.86	0.0	0.0	0.0	5.02	1.85	0.00	1.85	0.00	1.56	0.22	0.00	1.78	0.00	20.0	0.0	0.	0.00
335	58.600	25.87	0.0	0.0	0.0	5.02	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.0	0.0	0.	0.00
336	58.400	25.89	0.0	0.0	0.0	5.01	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.0	0.0	0.	0.00
337	58.200	25.90	0.0	0.0	0.0	5.01	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.0	0.0	0.	0.00
338	58.000	25.91	0.0	0.0	0.0	5.01	1.83	0.00	1.83	0.00	1.56	0.22	0.00	1.78	0.00	20.0	0.0	0.	0.00
339	57.800	25.92	0.0	0.0	0.0	5.01	1.83	0.00	1.83	0.00	1.57	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
340	57.600	25.93	0.0	0.0	0.0	5.01	1.82	0.00	1.82	0.00	1.57	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
341	57.400	25.94	0.0	0.0	0.0	5.00	1.82	0.00	1.82	0.00	1.57	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
342	57.200	25.95	0.0	0.0	0.0	5.00	1.81	0.00	1.81	0.00	1.57	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
343	57.000	25.96	0.0	0.0	0.0	5.00	1.81	0.00	1.81	0.00	1.57	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
344	56.800	25.97	0.0	0.0	0.0	5.00	1.80	0.00	1.80	0.00	1.58	0.22	0.00	1.79	0.00	20.0	0.0	0.	0.00
345	56.600	25.98	0.0	0.0	0.0	5.00	1.80	0.00	1.80	0.00	1.58	0.22	0.00	1.80	0.00	20.0	0.0	0.	0.00
346	56.400	25.99	0.0	0.0	0.0	5.00	1.79	0.00	1.79	0.00	1.58	0.22	0.00	1.80	0.00	20.0	0.0	0.	0.00
347	56.200	26.00	0.0	0.0	0.0	4.99	1.79	0.00	1.79	0.00	1.58	0.22	0.00	1.80	0.00	20.0	0.0	0.	0.00
348	56.000	26.01	0.0	0.0	0.0	4.99	1.78	0.00	1.78	0.00	1.58	0.22	0.00	1.80	0.00	20.0	0.0	0.	0.00
349	55.800	26.02	0.0	0.0	0.0	4.99	1.78	0.00	1.78	0.00	1.58	0.22	0.00	1.80	0.00	20.0	0.0	0.	0.00
350	55.600	26.03	0.0	0.0	0.0	4.99	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.0	0.0	0.	0.00
351	55.400	26.04	0.0	0.0	0.0	4.99	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.0	0.0	0.	0.00
352	55.200	26.05	0.0	0.0	0.0	4.98	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.0	0.0	0.	0.00
353	55.000	26.06	0.0	0.0	0.0	4.98	1.76	0.00	1.76	0.00	1.59	0.22	0.00	1.81	0.00	20.0	0.0	0.	0.00
354	54.800	26.07	0.0	0.0	0.0	4.98	1.76	0.00	1.76	0.00	1.59	0.22	0.00	1.81	0.00	20.0	0.0	0.	0.00
355	54.600	26.08	0.0	0.0	0.0	4.98	1.75	0.00	1.75	0.00	1.59	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
356	54.400	26.09	0.0	0.0	0.0	4.98	1.75	0.00	1.75	0.00	1.60	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
357	54.200	26.10	0.0	0.0	0.0	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
358	54.000	26.11	0.0	0.0	0.0	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
359	53.800	26.12	0.0	0.0	0.0	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
360	53.600	26.13	0.0	0.0	0.0	4.97	1.73	0.00	1.73	0.00	1.60	0.22	0.00	1.82	0.00	20.0	0.0	0.	0.00
361	53.400	26.14	0.0	0.0	0.0	4.97	1.73	0.00	1.73	0.00	1.60	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00
362	53.200	26.15	0.0	0.0	0.0	4.96	1.72	0.00	1.72	0.00	1.61	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00
363	53.000	26.17	0.0	0.0	0.0	4.96	1.72	0.00	1.72	0.00	1.61	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00
364	52.800	26.18	0.0	0.0	0.0	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00

365	52.600	26.19	0.0	0.0	0.0	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00
366	52.400	26.20	0.0	0.0	0.0	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.0	0.0	0.	0.00
367	52.200	26.21	0.0	0.0	0.0	4.95	1.70	0.00	1.70	0.00	1.61	0.22	0.00	1.84	0.00	20.0	0.0	0.	0.00
368	52.000	26.22	0.0	0.0	0.0	4.95	1.70	0.00	1.70	0.00	1.61	0.22	0.00	1.84	0.00	20.0	0.0	0.	0.00
369	51.800	26.23	0.0	0.0	0.0	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.0	0.0	0.	0.00
370	51.600	26.24	0.0	0.0	0.0	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.0	0.0	0.	0.00
371	51.400	26.25	0.0	0.0	0.0	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.0	0.0	0.	0.00
372	51.200	26.26	0.0	0.0	0.0	4.94	1.68	0.00	1.68	0.00	1.62	0.22	0.00	1.85	0.00	20.0	0.0	0.	0.00
373	51.000	26.27	0.0	0.0	0.0	4.94	1.68	0.00	1.68	0.00	1.62	0.22	0.00	1.85	0.00	20.0	0.0	0.	0.00
374	50.800	26.28	0.0	0.0	0.0	4.94	1.67	0.00	1.67	0.00	1.62	0.22	0.00	1.85	0.00	20.0	0.0	0.	0.00
375	50.600	26.29	0.0	0.0	0.0	4.94	1.67	0.00	1.67	0.00	1.63	0.22	0.00	1.85	0.00	20.0	0.0	0.	0.00
376	50.400	26.30	0.0	0.0	0.0	4.94	1.67	0.00	1.67	0.00	1.63	0.22	0.00	1.85	0.00	20.0	0.0	0.	0.00
377	50.200	26.32	0.0	0.0	0.0	5.07	1.89	0.00	1.89	0.00	1.63	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
378	50.000	26.34	0.0	0.0	0.0	5.18	2.10	0.00	2.10	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
379	49.800	26.35	0.0	0.0	0.0	5.28	2.30	0.00	2.30	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
380	49.600	26.37	0.0	0.0	0.0	5.37	2.49	0.00	2.49	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
381	49.400	26.39	0.0	0.0	0.0	5.45	2.68	0.00	2.68	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
382	49.200	26.41	0.0	0.0	0.0	5.51	2.86	0.00	2.86	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
383	49.000	26.42	0.0	0.0	0.0	5.57	3.03	0.00	3.03	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
384	48.800	26.44	0.0	0.0	0.0	5.61	3.19	0.00	3.19	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
385	48.600	26.46	0.0	0.0	0.0	5.65	3.35	0.00	3.35	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
386	48.400	26.48	0.0	0.0	0.0	5.68	3.50	0.00	3.50	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
387	48.200	26.50	0.0	0.0	0.0	5.70	3.64	0.00	3.64	0.00	1.64	0.23	0.00	1.87	0.00	20.0	0.0	0.	0.00
388	48.000	26.51	0.0	0.0	0.0	5.48	3.59	0.00	3.59	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
389	47.800	26.53	0.0	0.0	0.0	5.50	3.71	0.00	3.71	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
390	47.600	26.55	0.0	0.0	0.0	5.52	3.82	0.00	3.82	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
391	47.400	26.57	0.0	0.0	0.0	5.54	3.93	0.00	3.93	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
392	47.200	26.58	0.0	0.0	0.0	5.55	4.03	0.00	4.03	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
393	47.000	26.60	0.0	0.0	0.0	5.55	4.13	0.00	4.13	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
394	46.800	26.62	0.0	0.0	0.0	5.56	4.23	0.00	4.23	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
395	46.600	26.64	0.0	0.0	0.0	5.56	4.32	0.00	4.32	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
396	46.400	26.66	0.0	0.0	0.0	5.55	4.41	0.00	4.41	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
397	46.200	26.67	0.0	0.0	0.0	5.55	4.50	0.00	4.50	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
398	46.000	26.69	0.0	0.0	0.0	5.54	4.59	0.00	4.59	0.00	1.61	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
399	45.800	26.71	0.0	0.0	0.0	5.53	4.67	0.00	4.67	0.00	1.61	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
400	45.600	26.73	0.0	0.0	0.0	5.51	4.75	0.00	4.75	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
401	45.400	26.75	0.0	0.0	0.0	5.50	4.82	0.00	4.82	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
402	45.200	26.76	0.0	0.0	0.0	5.48	4.89	0.00	4.89	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
403	45.000	26.78	0.0	0.0	0.0	5.46	4.96	0.00	4.96	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
404	44.800	26.80	0.0	0.0	0.0	5.44	5.03	0.00	5.03	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
405	44.600	26.82	0.0	0.0	0.0	5.42	5.10	0.00	5.10	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
406	44.400	26.83	0.0	0.0	0.0	5.39	5.16	0.00	5.16	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
407	44.200	26.85	0.0	0.0	0.0	5.37	5.22	0.00	5.22	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
408	44.000	26.87	0.0	0.0	0.0	5.34	5.28	0.00	5.28	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
409	43.800	26.89	0.0	0.0	0.0	5.31	5.33	0.00	5.33	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
410	43.600	26.91	0.0	0.0	0.0	5.29	5.39	0.00	5.39	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
411	43.400	26.92	0.0	0.0	0.0	5.26	5.44	0.00	5.44	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
412	43.200	26.94	0.0	0.0	0.0	5.23	5.49	0.00	5.49	0.00	1.62	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
413	43.000	26.96	0.0	0.0	0.0	5.20	5.54	0.00	5.54	0.00	1.62	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
414	42.800	26.98	0.0	0.0	0.0	5.17	5.58	0.00	5.58	0.00	1.62	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
415	42.600	26.99	0.0	0.0	0.0	5.14	5.63	0.00	5.63	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00

416	42.400	27.01	0.0	0.0	0.0	5.10	5.67	0.00	5.67	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
417	42.200	27.03	0.0	0.0	0.0	5.07	5.71	0.00	5.71	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
418	42.000	27.05	0.0	0.0	0.0	5.04	5.75	0.00	5.75	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
419	41.800	27.07	0.0	0.0	0.0	5.01	5.79	0.00	5.79	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
420	41.600	27.08	0.0	0.0	0.0	4.97	5.82	0.00	5.82	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
421	41.400	27.10	0.0	0.0	0.0	4.94	5.86	0.00	5.86	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
422	41.200	27.12	0.0	0.0	0.0	4.91	5.89	0.00	5.89	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
423	41.000	27.14	0.0	0.0	0.0	4.88	5.92	0.00	5.92	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
424	40.800	27.15	0.0	0.0	0.0	4.84	5.96	0.00	5.96	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
425	40.600	27.17	0.0	0.0	0.0	4.81	5.99	0.00	5.99	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
426	40.400	27.19	0.0	0.0	0.0	4.78	6.01	0.00	6.01	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
427	40.200	27.21	0.0	0.0	0.0	4.75	6.04	0.00	6.04	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
428	40.000	27.23	0.0	0.0	0.0	4.71	6.07	0.00	6.07	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
429	39.800	27.24	0.0	0.0	0.0	4.68	6.09	0.00	6.09	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
430	39.600	27.26	0.0	0.0	0.0	4.65	6.12	0.00	6.12	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
431	39.400	27.28	0.0	0.0	0.0	4.62	6.14	0.00	6.14	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
432	39.200	27.30	0.0	0.0	0.0	4.59	6.16	0.00	6.16	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
433	39.000	27.32	0.0	0.0	0.0	4.56	6.19	0.00	6.19	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
434	38.800	27.33	0.0	0.0	0.0	4.53	6.21	0.00	6.21	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
435	38.600	27.35	0.0	0.0	0.0	4.50	6.23	0.00	6.23	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
436	38.400	27.37	0.0	0.0	0.0	4.47	6.24	0.00	6.24	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
437	38.200	27.39	0.0	0.0	0.0	4.44	6.26	0.00	6.26	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
438	38.000	27.40	0.0	0.0	0.0	4.41	6.28	0.00	6.28	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
439	37.800	27.42	0.0	0.0	0.0	4.38	6.30	0.00	6.30	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
440	37.600	27.44	0.0	0.0	0.0	4.35	6.31	0.00	6.31	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
441	37.400	27.46	0.0	0.0	0.0	4.32	6.33	0.00	6.33	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
442	37.200	27.48	0.0	0.0	0.0	4.29	6.34	0.00	6.34	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
443	37.000	27.49	0.0	0.0	0.0	4.27	6.35	0.00	6.35	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
444	36.800	27.51	0.0	0.0	0.0	4.24	6.37	0.00	6.37	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
445	36.600	27.53	0.0	0.0	0.0	4.21	6.38	0.00	6.38	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
446	36.400	27.55	0.0	0.0	0.0	4.19	6.39	0.00	6.39	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
447	36.200	27.56	0.0	0.0	0.0	4.16	6.40	0.00	6.40	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
448	36.000	27.58	0.0	0.0	0.0	4.13	6.41	0.00	6.41	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
449	35.800	27.60	0.0	0.0	0.0	4.11	6.42	0.00	6.42	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
450	35.600	27.63	0.0	0.0	0.0	4.12	6.47	0.00	6.47	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
451	35.400	27.65	0.0	0.0	0.0	4.13	6.51	0.00	6.51	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
452	35.200	27.68	0.0	0.0	0.0	4.14	6.55	0.00	6.55	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
453	35.000	27.71	0.0	0.0	0.0	4.14	6.59	0.00	6.59	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
454	34.800	27.73	0.0	0.0	0.0	4.15	6.62	0.00	6.62	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
455	34.600	27.76	0.0	0.0	0.0	4.15	6.66	0.00	6.66	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
456	34.400	27.79	0.0	0.0	0.0	4.15	6.69	0.00	6.69	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
457	34.200	27.81	0.0	0.0	0.0	4.15	6.72	0.00	6.72	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
458	34.000	27.84	0.0	0.0	0.0	4.15	6.75	0.00	6.75	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
459	33.800	27.87	0.0	0.0	0.0	4.14	6.78	0.00	6.78	0.00	1.63	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
460	33.600	27.89	0.0	0.0	0.0	4.14	6.81	0.00	6.81	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
461	33.400	27.92	0.0	0.0	0.0	4.13	6.84	0.00	6.84	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
462	33.200	27.95	0.0	0.0	0.0	4.13	6.86	0.00	6.86	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
463	33.000	27.98	0.0	0.0	0.0	4.12	6.89	0.00	6.89	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
464	32.800	28.00	0.0	0.0	0.0	4.11	6.91	0.00	6.91	0.00	1.62	0.23	0.00	1.86	0.00	20.0	0.0	0.	0.00
465	32.600	28.03	0.0	0.0	0.0	4.10	6.93	0.00	6.93	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
466	32.400	28.06	0.0	0.0	0.0	4.09	6.95	0.00	6.95	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00

467	32.200	28.08	0.0	0.0	0.0	4.09	6.97	0.00	6.97	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
468	32.000	28.11	0.0	0.0	0.0	4.07	6.99	0.00	6.99	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
469	31.800	28.14	0.0	0.0	0.0	4.06	7.01	0.00	7.01	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
470	31.600	28.16	0.0	0.0	0.0	4.05	7.03	0.00	7.03	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
471	31.400	28.19	0.0	0.0	0.0	4.04	7.05	0.00	7.05	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
472	31.200	28.22	0.0	0.0	0.0	4.03	7.06	0.00	7.06	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
473	31.000	28.24	0.0	0.0	0.0	4.02	7.08	0.00	7.08	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
474	30.800	28.27	0.0	0.0	0.0	4.01	7.09	0.00	7.09	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
475	30.600	28.30	0.0	0.0	0.0	3.99	7.10	0.00	7.10	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
476	30.400	28.32	0.0	0.0	0.0	3.98	7.12	0.00	7.12	0.00	1.62	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
477	30.200	28.35	0.0	0.0	0.0	3.97	7.13	0.00	7.13	0.00	1.61	0.23	0.00	1.85	0.00	20.0	0.0	0.	0.00
478	30.000	28.38	0.0	0.0	0.0	3.95	7.14	0.00	7.14	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
479	29.800	28.40	0.0	0.0	0.0	3.94	7.15	0.00	7.15	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
480	29.600	28.43	0.0	0.0	0.0	3.93	7.16	0.00	7.16	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
481	29.400	28.46	0.0	0.0	0.0	3.92	7.17	0.00	7.17	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
482	29.200	28.48	0.0	0.0	0.0	3.90	7.18	0.00	7.18	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
483	29.000	28.51	0.0	0.0	0.0	3.89	7.18	0.00	7.18	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
484	28.800	28.54	0.0	0.0	0.0	3.88	7.19	0.00	7.19	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
485	28.600	28.56	0.0	0.0	0.0	3.86	7.20	0.00	7.20	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
486	28.400	28.59	0.0	0.0	0.0	3.85	7.20	0.00	7.20	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
487	28.200	28.62	0.0	0.0	0.0	3.84	7.21	0.00	7.21	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
488	28.000	28.64	0.0	0.0	0.0	3.82	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
489	27.800	28.67	0.0	0.0	0.0	3.81	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
490	27.600	28.70	0.0	0.0	0.0	3.80	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.0	0.0	0.	0.00
491	27.400	28.73	0.0	0.0	0.0	3.79	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
492	27.200	28.75	0.0	0.0	0.0	3.77	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
493	27.000	28.78	0.0	0.0	0.0	3.76	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
494	26.800	28.81	0.0	0.0	0.0	3.75	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
495	26.600	28.83	0.0	0.0	0.0	3.74	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
496	26.400	28.86	0.0	0.0	0.0	3.72	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
497	26.200	28.89	0.0	0.0	0.0	3.71	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
498	26.000	28.91	0.0	0.0	0.0	3.70	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
499	25.800	28.94	0.0	0.0	0.0	3.69	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
500	25.600	28.97	0.0	0.0	0.0	3.68	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
501	25.400	28.99	0.0	0.0	0.0	3.67	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
502	25.200	29.02	0.0	0.0	0.0	3.66	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
503	25.000	29.05	0.0	0.0	0.0	3.65	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.0	0.0	0.	0.00
504	24.800	29.07	0.0	0.0	0.0	3.63	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.82	0.00	20.0	0.0	0.	0.00
505	24.600	29.10	0.0	0.0	0.0	3.62	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.82	0.00	20.0	0.0	0.	0.00
506	24.400	29.15	0.0	0.0	0.0	3.50	7.31	0.00	7.31	0.00	1.60	0.23	0.00	1.82	0.00	20.4	0.0	0.	0.00
507	24.200	29.19	0.0	0.0	0.0	3.39	7.37	0.00	7.37	0.00	1.60	0.23	0.00	1.82	0.00	20.8	0.0	0.	0.00
508	24.000	29.24	0.0	0.0	0.0	3.29	7.43	0.00	7.43	0.00	1.60	0.23	0.00	1.82	0.00	21.3	0.0	0.	0.00
509	23.800	29.28	0.0	0.0	0.0	3.20	7.48	0.00	7.48	0.00	1.60	0.23	0.00	1.82	0.00	21.7	0.0	0.	0.00
510	23.600	29.33	0.0	0.0	0.0	3.13	7.53	0.00	7.53	0.00	1.60	0.23	0.00	1.82	0.00	22.1	0.0	0.	0.00
511	23.400	29.37	0.0	0.0	0.0	3.07	7.58	0.00	7.58	0.00	1.60	0.23	0.00	1.82	0.00	22.5	0.0	0.	0.00
512	23.200	29.42	0.0	0.0	0.0	3.02	7.62	0.00	7.62	0.00	1.60	0.23	0.00	1.82	0.00	23.0	0.0	0.	0.00
513	23.000	29.46	0.0	0.0	0.0	2.98	7.65	0.00	7.65	0.00	1.59	0.23	0.00	1.82	0.00	23.4	0.0	0.	0.00
514	22.800	29.51	0.0	0.0	0.0	2.95	7.69	0.00	7.69	0.00	1.59	0.23	0.00	1.82	0.00	23.8	0.0	0.	0.00
515	22.600	29.55	0.0	0.0	0.0	2.93	7.72	0.00	7.72	0.00	1.59	0.23	0.00	1.82	0.00	24.2	0.0	0.	0.00
516	22.400	29.60	0.0	0.0	0.0	2.92	7.74	0.00	7.74	0.00	1.59	0.23	0.00	1.82	0.00	24.7	0.0	0.	0.00
517	22.200	29.65	0.0	0.0	0.0	2.91	7.77	0.00	7.77	0.00	1.59	0.23	0.00	1.82	0.00	25.1	0.0	0.	0.00

518	22.000	29.69	0.0	0.0	0.0	2.92	7.79	0.00	7.79	0.00	1.59	0.23	0.00	1.82	0.00	25.5	0.0	0.	0.00
519	21.800	29.74	0.0	0.0	0.0	2.93	7.81	0.00	7.81	0.00	1.59	0.23	0.00	1.82	0.00	25.9	0.0	0.	0.00
520	21.600	29.78	0.0	0.0	0.0	2.95	7.82	0.00	7.82	0.00	1.59	0.23	0.00	1.82	0.00	26.4	0.0	0.	0.00
521	21.400	29.83	0.0	0.0	0.0	2.98	7.84	0.00	7.84	0.00	1.59	0.23	0.00	1.82	0.00	26.8	0.0	0.	0.00
522	21.200	29.87	0.0	0.0	0.0	3.02	7.85	0.00	7.85	0.00	1.59	0.23	0.00	1.82	0.00	27.2	0.0	0.	0.00
523	21.000	29.92	0.0	0.0	0.0	3.06	7.86	0.00	7.86	0.00	1.59	0.23	0.00	1.82	0.00	27.6	0.0	0.	0.00
524	20.800	29.96	0.0	0.0	0.0	3.11	7.87	0.00	7.87	0.00	1.59	0.23	0.00	1.82	0.00	28.1	0.0	0.	0.00
525	20.600	30.01	0.0	0.0	0.0	3.16	7.88	0.00	7.88	0.00	1.59	0.23	0.00	1.81	0.00	28.5	0.0	0.	0.00
526	20.400	30.05	0.0	0.0	0.0	3.22	7.88	0.00	7.88	0.00	1.59	0.23	0.00	1.81	0.00	28.9	0.0	0.	0.00
527	20.200	30.10	0.0	0.0	0.0	3.28	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	29.3	0.0	0.	0.00
528	20.000	30.15	0.0	0.0	0.0	3.35	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	29.8	0.0	0.	0.00
529	19.800	30.19	0.0	0.0	0.0	3.43	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	30.2	0.0	0.	0.00
530	19.600	30.24	0.0	0.0	0.0	3.51	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.81	0.00	30.6	0.0	0.	0.00
531	19.400	30.28	0.0	0.0	0.0	3.59	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.80	0.00	31.0	0.0	0.	0.00
532	19.200	30.33	0.0	0.0	0.0	3.68	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.80	0.00	31.5	0.0	0.	0.00
533	19.000	30.37	0.0	0.0	0.0	3.77	7.88	0.00	7.88	0.00	1.58	0.22	0.00	1.80	0.00	31.9	0.0	0.	0.00
534	18.800	30.42	0.0	0.0	0.0	3.87	7.88	0.00	7.88	0.00	1.58	0.21	0.00	1.80	0.00	32.3	0.0	0.	0.00
535	18.600	30.46	0.0	0.0	0.0	3.97	7.87	0.00	7.87	0.00	1.58	0.21	0.00	1.79	0.00	32.7	0.0	0.	0.00
536	18.400	30.51	0.0	0.0	0.0	4.08	7.87	0.00	7.87	0.00	1.58	0.21	0.00	1.79	0.00	33.2	0.0	0.	0.00
537	18.200	30.55	0.0	0.0	0.0	4.19	7.86	0.00	7.86	0.00	1.58	0.21	0.00	1.79	0.00	33.6	0.0	0.	0.00
538	18.000	30.60	0.0	0.0	0.0	4.30	7.86	0.00	7.86	0.00	1.58	0.21	0.00	1.79	0.00	34.0	0.0	0.	0.00
539	17.800	30.58	0.0	0.0	0.0	4.15	4.96	0.00	4.96	0.00	1.49	0.21	0.00	1.70	0.00	34.8	0.0	0.	0.00
540	17.600	30.56	0.0	0.0	0.0	4.06	5.25	0.00	5.25	0.00	1.51	0.21	0.00	1.72	0.00	35.6	0.0	0.	0.00
541	17.400	30.54	0.0	0.0	0.0	3.98	5.54	0.00	5.54	0.00	1.53	0.21	0.00	1.74	0.00	36.4	0.0	0.	0.00
542	17.200	30.52	0.0	0.0	0.0	3.90	5.81	0.00	5.81	0.00	1.54	0.21	0.00	1.76	0.00	37.2	0.0	0.	0.00
543	17.000	30.50	0.0	0.0	0.0	3.83	6.08	0.00	6.08	0.00	1.56	0.21	0.00	1.77	0.00	38.0	0.0	0.	0.00
544	16.800	30.48	0.0	0.0	0.0	3.76	6.35	0.00	6.35	0.00	1.58	0.21	0.00	1.79	0.00	38.8	0.0	0.	0.00
545	16.600	30.46	0.0	0.0	0.0	3.69	6.60	0.00	6.60	0.00	1.60	0.21	0.00	1.81	0.00	39.6	0.0	0.	0.00
546	16.400	30.44	0.0	0.0	0.0	3.63	6.85	0.00	6.85	0.00	1.62	0.21	0.00	1.83	0.00	40.4	0.0	0.	0.00
547	16.200	30.42	0.0	0.0	0.0	3.57	7.09	0.00	7.09	0.00	1.63	0.21	0.00	1.84	0.00	41.2	0.0	0.	0.00
548	16.000	30.40	0.0	0.0	0.0	3.51	7.32	0.00	7.32	0.00	1.65	0.21	0.00	1.86	0.00	42.0	0.0	0.	0.00
579	15.800	30.39	0.0	0.0	0.0	3.03	10.59	0.00	10.59	0.00	1.65	0.21	0.00	1.86	0.00	42.3	0.0	0.	0.00
580	15.600	30.38	0.0	0.0	0.0	2.97	10.54	0.00	10.54	0.00	1.65	0.21	0.00	1.86	0.00	42.6	0.0	0.	0.00
581	15.400	30.38	0.0	0.0	0.0	2.93	10.49	0.00	10.49	0.00	1.65	0.21	0.00	1.86	0.00	42.9	0.0	0.	0.00
582	15.200	30.37	0.0	0.0	0.0	2.90	10.45	0.00	10.45	0.00	1.65	0.22	0.00	1.86	0.00	43.2	0.0	0.	0.00
583	15.000	30.36	0.0	0.0	0.0	2.87	10.41	0.00	10.41	0.00	1.64	0.22	0.00	1.86	0.00	43.5	0.0	0.	0.00
584	14.800	30.35	0.0	0.0	0.0	2.86	10.36	0.00	10.36	0.00	1.64	0.22	0.00	1.86	0.00	43.8	0.0	0.	0.00
585	14.600	30.35	0.0	0.0	0.0	2.86	10.32	0.00	10.32	0.00	1.64	0.22	0.00	1.86	0.00	44.2	0.0	0.	0.00
586	14.400	30.34	0.0	0.0	0.0	2.86	10.29	0.00	10.29	0.00	1.64	0.22	0.00	1.86	0.00	44.5	0.0	0.	0.00
587	14.200	30.33	0.0	0.0	0.0	2.87	10.25	0.00	10.25	0.00	1.64	0.22	0.00	1.86	0.00	44.8	0.0	0.	0.00
588	14.000	30.32	0.0	0.0	0.0	2.88	10.22	0.00	10.22	0.00	1.64	0.22	0.00	1.86	0.00	45.1	0.0	0.	0.00
589	13.800	30.32	0.0	0.0	0.0	2.90	10.18	0.00	10.18	0.00	1.64	0.22	0.00	1.86	0.00	45.4	0.0	0.	0.00
590	13.600	30.31	0.0	0.0	0.0	2.92	10.15	0.00	10.15	0.00	1.63	0.22	0.00	1.86	0.00	45.7	0.0	0.	0.00
591	13.400	30.30	0.0	0.0	0.0	2.95	10.12	0.00	10.12	0.00	1.63	0.22	0.00	1.86	0.00	46.0	0.0	0.	0.00
592	13.200	30.29	0.0	0.0	0.0	2.98	10.10	0.00	10.10	0.00	1.63	0.22	0.00	1.86	0.00	46.3	0.0	0.	0.00
593	13.000	30.28	0.0	0.0	0.0	3.02	10.07	0.00	10.07	0.00	1.63	0.22	0.00	1.86	0.00	46.6	0.0	0.	0.00
594	12.800	30.28	0.0	0.0	0.0	3.05	10.05	0.00	10.05	0.00	1.63	0.22	0.00	1.85	0.00	46.9	0.0	0.	0.00
595	12.600	30.27	0.0	0.0	0.0	3.09	10.02	0.00	10.02	0.00	1.63	0.23	0.00	1.85	0.00	47.2	0.0	0.	0.00
596	12.400	30.26	0.0	0.0	0.0	3.13	10.00	0.00	10.00	0.00	1.63	0.23	0.00	1.85	0.00	47.5	0.0	0.	0.00
597	12.200	30.25	0.0	0.0	0.0	3.18	9.98	0.00	9.98	0.00	1.63	0.23	0.00	1.85	0.00	47.8	0.0	0.	0.00
598	12.000	30.25	0.0	0.0	0.0	3.22	9.96	0.00	9.96	0.00	1.62	0.22	0.00	1.85	0.00	48.2	0.0	0.	0.00

599	11.800	30.24	0.0	0.0	0.0	3.27	9.94	0.00	9.94	0.00	1.62	0.22	0.00	1.85	0.00	48.5	0.0	0.	0.00
600	11.600	30.23	0.0	0.0	0.0	3.32	9.92	0.00	9.92	0.00	1.62	0.22	0.00	1.85	0.00	48.8	0.0	0.	0.00
601	11.400	30.22	0.0	0.0	0.0	3.37	9.90	0.00	9.90	0.00	1.62	0.22	0.00	1.85	0.00	49.1	0.0	0.	0.00
602	11.200	30.22	0.0	0.0	0.0	3.42	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.84	0.00	49.4	0.0	0.	0.00
603	11.000	30.21	0.0	0.0	0.0	3.47	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	49.7	0.0	0.	0.00
604	10.800	30.20	0.0	0.0	0.0	3.53	9.86	0.00	9.86	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
605	10.600	30.20	0.0	0.0	0.0	3.46	9.86	0.00	9.86	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
606	10.400	30.20	0.0	0.0	0.0	3.41	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
607	10.200	30.20	0.0	0.0	0.0	3.36	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
608	10.000	30.20	0.0	0.0	0.0	3.31	9.88	0.00	9.88	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
609	9.800	30.20	0.0	0.0	0.0	3.27	9.88	0.00	9.88	0.00	1.62	0.22	0.00	1.84	0.00	50.0	0.0	0.	0.00
610	9.600	30.20	0.0	0.0	0.0	3.24	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
611	9.400	30.20	0.0	0.0	0.0	3.21	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
612	9.200	30.20	0.0	0.0	0.0	3.18	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
613	9.000	30.20	0.0	0.0	0.0	3.15	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
614	8.800	30.20	0.0	0.0	0.0	3.13	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
615	8.600	30.20	0.0	0.0	0.0	3.11	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
616	8.400	30.20	0.0	0.0	0.0	3.09	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
617	8.200	30.20	0.0	0.0	0.0	3.08	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.0	0.0	0.	0.00
618	8.000	30.20	0.0	0.0	0.0	3.06	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.85	0.00	50.0	0.0	0.	0.00
619	7.800	30.20	0.0	0.0	0.0	3.05	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
620	7.600	30.20	0.0	0.0	0.0	3.04	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
621	7.400	30.20	0.0	0.0	0.0	3.03	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
622	7.200	30.20	0.0	0.0	0.0	3.02	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
623	7.000	30.20	0.0	0.0	0.0	3.01	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
624	6.800	30.20	0.0	0.0	0.0	3.00	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
625	6.600	30.20	0.0	0.0	0.0	3.00	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
626	6.400	30.20	0.0	0.0	0.0	2.99	9.93	0.00	9.93	0.00	1.64	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
627	6.200	30.20	0.0	0.0	0.0	2.98	9.93	0.00	9.93	0.00	1.64	0.23	0.00	1.86	0.00	50.0	0.0	0.	0.00
628	6.000	30.20	0.0	0.0	0.0	2.98	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
629	5.800	30.20	0.0	0.0	0.0	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
630	5.600	30.20	0.0	0.0	0.0	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
631	5.400	30.20	0.0	0.0	0.0	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
632	5.200	30.20	0.0	0.0	0.0	2.96	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
633	5.000	30.20	0.0	0.0	0.0	2.96	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
634	4.800	30.20	0.0	0.0	0.0	2.95	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
635	4.600	30.20	0.0	0.0	0.0	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
636	4.400	30.20	0.0	0.0	0.0	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
637	4.200	30.20	0.0	0.0	0.0	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
638	4.000	30.20	0.0	0.0	0.0	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
639	3.800	30.20	0.0	0.0	0.0	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.0	0.0	0.	0.00
640	3.600	30.20	0.0	0.0	0.0	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
641	3.400	30.20	0.0	0.0	0.0	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
642	3.200	30.20	0.0	0.0	0.0	2.94	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
643	3.000	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
644	2.800	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
645	2.600	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
646	2.400	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
647	2.200	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
648	2.000	30.20	0.0	0.0	0.0	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
649	1.800	30.20	0.0	0.0	0.0	2.93	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00

650	1.600	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
651	1.400	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
652	1.200	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
653	1.000	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
654	0.800	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.0	0.0	0.	0.00
655	0.600	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.0	0.0	0.	0.00
656	0.400	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.0	0.0	0.	0.00
657	0.200	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.0	0.0	0.	0.00
658	0.000	30.20	0.0	0.0	0.0	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.0	0.0	0.	0.00

SPECIAL REPORT: Praire
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	*	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
549	5.800	29.80	0.0	0.0	0.0	4.14	7.74	0.00	7.74	0.00	1.60	0.23	0.00	1.83	0.00	75.0	0.0	0.	0.00		
550	5.600	29.80	0.0	0.0	0.0	4.57	8.20	0.00	8.20	0.00	1.60	0.22	0.00	1.83	0.00	75.0	0.0	0.	0.00		
551	5.400	29.80	0.0	0.0	0.0	4.94	8.62	0.00	8.62	0.00	1.60	0.22	0.00	1.83	0.00	75.0	0.0	0.	0.00		
552	5.200	29.80	0.0	0.0	0.0	5.25	9.00	0.00	9.00	0.00	1.61	0.22	0.00	1.82	0.00	75.0	0.0	0.	0.00		
553	5.000	29.80	0.0	0.0	0.0	5.51	9.35	0.00	9.35	0.00	1.61	0.22	0.00	1.82	0.00	75.0	0.0	0.	0.00		
554	4.800	29.80	0.0	0.0	0.0	5.72	9.67	0.00	9.67	0.00	1.61	0.21	0.00	1.82	0.00	75.0	0.0	0.	0.00		
555	4.600	29.80	0.0	0.0	0.0	5.89	9.96	0.00	9.96	0.00	1.61	0.21	0.00	1.82	0.00	75.0	0.0	0.	0.00		
556	4.400	29.80	0.0	0.0	0.0	6.03	10.23	0.00	10.23	0.00	1.61	0.21	0.00	1.82	0.00	75.0	0.0	0.	0.00		
557	4.200	29.80	0.0	0.0	0.0	6.14	10.47	0.00	10.47	0.00	1.61	0.21	0.00	1.82	0.00	75.0	0.0	0.	0.00		
558	4.000	29.80	0.0	0.0	0.0	6.22	10.69	0.00	10.69	0.00	1.61	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
559	3.800	29.80	0.0	0.0	0.0	6.28	10.89	0.00	10.89	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
560	3.600	29.80	0.0	0.0	0.0	6.32	11.08	0.00	11.08	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
561	3.400	29.80	0.0	0.0	0.0	6.35	11.25	0.00	11.25	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
562	3.200	29.80	0.0	0.0	0.0	6.36	11.40	0.00	11.40	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
563	3.000	29.80	0.0	0.0	0.0	6.35	11.55	0.00	11.55	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
564	2.800	29.80	0.0	0.0	0.0	6.34	11.68	0.00	11.68	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
565	2.600	29.80	0.0	0.0	0.0	6.31	11.79	0.00	11.79	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
566	2.400	29.80	0.0	0.0	0.0	6.28	11.90	0.00	11.90	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
567	2.200	29.80	0.0	0.0	0.0	6.25	12.00	0.00	12.00	0.00	1.62	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
568	2.000	29.80	0.0	0.0	0.0	6.20	12.09	0.00	12.09	0.00	1.63	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
569	1.800	29.80	0.0	0.0	0.0	6.16	12.17	0.00	12.17	0.00	1.63	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
570	1.600	29.80	0.0	0.0	0.0	6.11	12.25	0.00	12.25	0.00	1.63	0.20	0.00	1.82	0.00	75.0	0.0	0.	0.00		
571	1.400	29.88	0.0	0.0	0.0	6.18	13.42	0.00	13.42	0.00	1.63	0.20	0.00	1.83	0.00	70.9	0.0	0.	0.00		
572	1.200	29.95	0.0	0.0	0.0	6.05	14.49	0.00	14.49	0.00	1.63	0.20	0.00	1.83	0.00	66.8	0.0	0.	0.00		
573	1.000	30.02	0.0	0.0	0.0	5.74	15.47	0.00	15.47	0.00	1.64	0.20	0.00	1.83	0.00	62.6	0.0	0.	0.00		
574	0.800	30.10	0.0	0.0	0.0	5.26	16.35	0.00	16.35	0.00	1.64	0.20	0.00	1.84	0.00	58.5	0.0	0.	0.00		
575	0.600	30.17	0.0	0.0	0.0	4.63	17.15	0.00	17.15	0.00	1.64	0.20	0.00	1.84	0.00	54.4	0.0	0.	0.00		
576	0.400	30.25	0.0	0.0	0.0	3.88	17.87	0.00	17.87	0.00	1.64	0.20	0.00	1.84	0.00	50.2	0.0	0.	0.00		
577	0.200	30.32	0.0	0.0	0.0	3.01	18.53	0.00	18.53	0.00	1.65	0.20	0.00	1.85	0.00	46.1	0.0	0.	0.00		
578	0.000	30.40	0.0	0.0	0.0	2.04	19.12	0.00	19.12	0.00	1.65	0.21	0.00	1.86	0.00	42.0	0.0	0.	0.00		

SPECIAL REPORT: Black Lake Bayou
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 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT 1/da	ORG-N 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	125.400	8.51	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00	
2	125.200	8.51	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.12	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	
3	125.000	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.13	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	
4	124.800	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00	
5	124.600	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00	
6	124.400	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	
7	124.200	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00	
8	124.000	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	
9	123.800	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00	
10	123.600	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.13	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00	
11	123.400	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.13	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00	
12	123.200	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	
13	123.000	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00	
14	122.800	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	
15	122.600	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.13	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	
16	122.400	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.13	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	
17	122.200	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.13	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	
18	122.000	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.13	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00	
19	121.800	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.14	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
20	121.600	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	
21	121.400	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00	
22	121.200	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	
23	121.000	8.45	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.14	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00	
24	120.800	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.14	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00	
25	120.600	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00	
26	120.400	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	
27	120.200	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	
28	120.000	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.14	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	
29	119.800	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.14	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00	
30	119.600	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00	
31	119.400	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	
32	119.200	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00	
33	119.000	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.14	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	
34	118.800	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.14	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	
35	118.600	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	
36	118.400	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00	
37	118.200	8.40	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	
38	118.000	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.14	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	
39	117.800	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.14	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	
40	117.600	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00	
41	117.400	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	
42	117.200	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	
43	117.000	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	
44	116.800	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	
45	116.600	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	
46	116.400	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.14	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	

47	116.200	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.14	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
48	116.000	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
49	115.800	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
50	115.600	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
51	115.400	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.14	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
52	115.200	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.14	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
53	115.000	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
54	114.800	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
55	114.600	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	114.400	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.14	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	114.200	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.14	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
58	114.000	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
59	113.800	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
60	113.600	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
61	113.400	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.14	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
62	113.200	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.14	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
63	113.000	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.14	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
64	112.800	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.14	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
65	112.600	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
66	112.400	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
67	112.200	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
68	112.000	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.14	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
69	111.800	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
70	111.600	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
71	111.400	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
72	111.200	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
73	111.000	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
74	110.800	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
75	110.600	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
76	110.400	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
77	110.200	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
78	110.000	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
79	109.800	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
80	109.600	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
81	109.400	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
82	109.200	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
83	109.000	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
84	108.800	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
85	108.600	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
86	108.400	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
87	108.200	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
88	108.000	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
89	107.800	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
90	107.600	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
91	107.400	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
92	107.200	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
93	107.000	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
94	106.800	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
95	106.600	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
96	106.400	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
97	106.200	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

98	106.000	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
99	105.800	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
100	105.600	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
101	105.400	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
102	105.200	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
103	105.000	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
104	104.800	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
105	104.600	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
106	104.400	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
107	104.200	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
108	104.000	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
109	103.800	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
110	103.600	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
111	103.400	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
112	103.200	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
113	103.000	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
114	102.800	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
115	102.600	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
116	102.400	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
117	102.200	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
118	102.000	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
119	101.800	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
120	101.600	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
121	101.400	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
122	101.200	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
123	101.000	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
124	100.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
125	100.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
126	100.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
127	100.200	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
128	100.000	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
129	99.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
130	99.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
131	99.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
132	99.200	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
133	99.000	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
134	98.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
135	98.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
136	98.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
137	98.200	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
138	98.000	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
139	97.800	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
140	97.600	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
141	97.400	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
142	97.200	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
143	97.000	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
144	96.800	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
145	96.600	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
146	96.400	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
147	96.200	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
148	96.000	8.30	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

149	95.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
150	95.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
151	95.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
152	95.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
153	95.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
154	94.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
155	94.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
156	94.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
157	94.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
158	94.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
159	93.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
160	93.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
161	93.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
162	93.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
163	93.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
164	92.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
165	92.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
166	92.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
167	92.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
168	92.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
169	91.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
170	91.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
171	91.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
172	91.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
173	91.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
174	90.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
175	90.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
176	90.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
177	90.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
178	90.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
179	89.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
180	89.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
181	89.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
182	89.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
183	89.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
184	88.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
185	88.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
186	88.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
187	88.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
188	88.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
189	87.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
190	87.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
191	87.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
192	87.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
193	87.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
194	86.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
195	86.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
196	86.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
197	86.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
198	86.000	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
199	85.800	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

200	85.600	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
201	85.400	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
202	85.200	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
203	85.000	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
204	84.800	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
205	84.600	8.28	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
206	84.400	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
207	84.200	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
208	84.000	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
209	83.800	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
210	83.600	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
211	83.400	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
212	83.200	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
213	83.000	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
214	82.800	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
215	82.600	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
216	82.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
217	82.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
218	82.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
219	81.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
220	81.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
221	81.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
222	81.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
223	81.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
224	80.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
225	80.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
226	80.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
227	80.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
228	80.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
229	79.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
230	79.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
231	79.400	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
232	79.200	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
233	79.000	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
234	78.800	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
235	78.601	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
236	78.401	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
237	78.201	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
238	78.001	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
239	77.801	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
240	77.601	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
241	77.401	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
242	77.200	8.28	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.95	3.95	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
243	77.000	8.28	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.95	3.95	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
244	76.800	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
245	76.600	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
246	76.400	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
247	76.200	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
248	76.000	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
249	75.800	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
250	75.600	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

251	75.400	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
252	75.200	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
253	75.000	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
254	74.800	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
255	74.600	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
256	74.400	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
257	74.200	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
258	74.000	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
259	73.800	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
260	73.600	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
261	73.400	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
262	73.200	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
263	73.000	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
264	72.800	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
265	72.600	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
266	72.400	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
267	72.200	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
268	72.000	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
269	71.800	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
270	71.600	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
271	71.400	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
272	71.200	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
273	71.000	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
274	70.800	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
275	70.600	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
276	70.400	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
277	70.200	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
278	70.000	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
279	69.800	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
280	69.600	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
281	69.400	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
282	69.200	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
283	69.000	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
284	68.800	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
285	68.600	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
286	68.400	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
287	68.200	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
288	68.000	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
289	67.800	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
290	67.600	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
291	67.400	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
292	67.200	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
293	67.000	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
294	66.800	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
295	66.600	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
296	66.400	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
297	66.200	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
298	66.000	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
299	65.800	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
300	65.600	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
301	65.400	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00

302	65.200	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
303	65.000	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
304	64.800	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
305	64.600	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
306	64.400	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
307	64.200	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
308	64.000	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
309	63.800	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
310	63.600	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
311	63.400	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
312	63.200	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
313	63.000	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
314	62.800	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
315	62.600	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
316	62.400	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
317	62.200	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
318	62.000	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
319	61.800	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
320	61.600	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
321	61.400	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
322	61.200	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
323	61.000	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
324	60.800	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
325	60.600	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
326	60.400	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
327	60.200	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
328	60.000	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
329	59.800	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
330	59.600	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
331	59.400	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
332	59.200	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
333	59.000	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
334	58.800	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
335	58.600	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
336	58.400	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
337	58.200	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
338	58.000	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
339	57.800	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
340	57.600	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
341	57.400	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
342	57.200	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
343	57.000	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
344	56.800	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
345	56.600	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
346	56.400	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
347	56.200	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
348	56.000	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
349	55.800	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
350	55.600	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
351	55.400	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
352	55.200	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00

353	55.000	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
354	54.800	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
355	54.600	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
356	54.400	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
357	54.200	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
358	54.000	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
359	53.800	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
360	53.600	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
361	53.400	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
362	53.200	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
363	53.000	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
364	52.800	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
365	52.600	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
366	52.400	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
367	52.200	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
368	52.000	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
369	51.800	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
370	51.600	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
371	51.400	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
372	51.200	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
373	51.000	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
374	50.800	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
375	50.600	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
376	50.400	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
377	50.200	8.07	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
378	50.000	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
379	49.800	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
380	49.600	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
381	49.400	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
382	49.200	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
383	49.000	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
384	48.800	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
385	48.600	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
386	48.400	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
387	48.200	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
388	48.000	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
389	47.800	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
390	47.600	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
391	47.400	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
392	47.200	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
393	47.000	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
394	46.800	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
395	46.600	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
396	46.400	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
397	46.200	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
398	46.000	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
399	45.800	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
400	45.600	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
401	45.400	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
402	45.200	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
403	45.000	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00

404	44.800	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
405	44.600	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
406	44.400	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
407	44.200	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
408	44.000	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
409	43.800	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
410	43.600	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
411	43.400	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
412	43.200	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
413	43.000	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
414	42.800	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
415	42.600	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
416	42.400	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
417	42.200	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
418	42.000	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
419	41.800	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
420	41.600	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
421	41.400	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
422	41.200	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
423	41.000	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
424	40.800	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
425	40.600	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
426	40.400	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
427	40.200	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
428	40.000	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
429	39.800	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
430	39.600	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
431	39.400	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
432	39.200	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
433	39.000	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
434	38.800	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
435	38.600	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
436	38.400	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
437	38.200	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
438	38.000	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
439	37.800	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
440	37.600	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
441	37.400	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.52	3.52	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
442	37.200	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.52	3.52	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
443	37.000	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
444	36.800	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
445	36.600	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
446	36.400	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.54	3.54	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
447	36.200	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.54	3.54	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
448	36.000	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.55	3.55	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
449	35.800	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
450	35.600	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.59	2.59	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
451	35.400	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.59	2.59	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
452	35.200	7.87	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
453	35.000	7.87	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
454	34.800	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00

455	34.600	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.61	2.61	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
456	34.400	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.61	2.61	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
457	34.200	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.62	2.62	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
458	34.000	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.62	2.62	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
459	33.800	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
460	33.600	7.84	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
461	33.400	7.84	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
462	33.200	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.64	2.64	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
463	33.000	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.64	2.64	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
464	32.800	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.65	2.65	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
465	32.600	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.65	2.65	0.02	0.00	0.16	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
466	32.400	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.16	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
467	32.200	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
468	32.000	7.81	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
469	31.800	7.81	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
470	31.600	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
471	31.400	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
472	31.200	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
473	31.000	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
474	30.800	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
475	30.600	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
476	30.400	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
477	30.200	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
478	30.000	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
479	29.800	7.77	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
480	29.600	7.77	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
481	29.400	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
482	29.200	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
483	29.000	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
484	28.800	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
485	28.600	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
486	28.400	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
487	28.200	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
488	28.000	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
489	27.800	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
490	27.600	7.73	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
491	27.400	7.73	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
492	27.200	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
493	27.000	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
494	26.800	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
495	26.600	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
496	26.400	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
497	26.200	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
498	26.000	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
499	25.800	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
500	25.600	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
501	25.400	7.69	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
502	25.200	7.69	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
503	25.000	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
504	24.800	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
505	24.600	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.84	2.84	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00

506	24.400	7.67	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.45	4.45	0.02	0.00	0.17	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
507	24.200	7.67	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.46	4.46	0.02	0.00	0.17	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
508	24.000	7.66	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.47	4.47	0.02	0.00	0.17	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
509	23.800	7.65	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.49	4.49	0.02	0.00	0.17	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
510	23.600	7.65	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.50	4.50	0.02	0.00	0.17	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
511	23.400	7.64	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.51	4.51	0.02	0.00	0.17	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
512	23.200	7.64	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.52	4.52	0.02	0.00	0.17	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
513	23.000	7.63	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.54	4.54	0.02	0.00	0.17	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
514	22.800	7.62	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.02	0.00	0.17	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
515	22.600	7.62	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.02	0.00	0.17	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
516	22.400	7.61	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.02	0.00	0.17	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
517	22.200	7.61	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.02	0.00	0.17	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
518	22.000	7.60	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.02	0.00	0.17	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
519	21.800	7.59	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.02	0.00	0.17	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
520	21.600	7.59	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.02	0.00	0.17	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
521	21.400	7.58	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.02	0.00	0.17	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
522	21.200	7.58	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.02	0.00	0.17	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	21.000	7.57	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.02	0.00	0.17	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
524	20.800	7.56	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.02	0.00	0.17	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
525	20.600	7.56	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.02	0.00	0.18	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
526	20.400	7.55	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.02	0.00	0.18	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
527	20.200	7.55	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.02	0.00	0.18	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
528	20.000	7.54	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.02	0.00	0.18	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
529	19.800	7.53	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.02	0.00	0.18	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
530	19.600	7.53	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.02	0.00	0.18	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
531	19.400	7.52	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.78	4.78	0.02	0.00	0.19	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
532	19.200	7.52	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.79	4.79	0.02	0.00	0.19	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
533	19.000	7.51	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.80	4.80	0.02	0.00	0.19	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
534	18.800	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.82	4.82	0.02	0.00	0.19	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
535	18.600	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.83	4.83	0.02	0.00	0.19	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
536	18.400	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.85	4.85	0.02	0.00	0.19	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
537	18.200	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.86	4.86	0.02	0.00	0.20	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
538	18.000	7.48	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.87	4.87	0.02	0.00	0.20	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
539	17.800	7.48	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.66	12.66	0.02	0.00	0.20	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
540	17.600	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.64	12.64	0.02	0.00	0.19	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
541	17.400	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.62	12.62	0.02	0.00	0.19	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
542	17.200	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.61	12.61	0.02	0.00	0.19	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
543	17.000	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.59	12.59	0.02	0.00	0.19	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
544	16.800	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.58	12.58	0.02	0.00	0.19	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
545	16.600	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.56	12.56	0.02	0.00	0.19	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
546	16.400	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.54	12.54	0.02	0.00	0.19	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
547	16.200	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.53	12.53	0.02	0.00	0.19	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
548	16.000	7.51	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.51	12.51	0.02	0.00	0.18	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
579	15.800	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
580	15.600	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
581	15.400	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
582	15.200	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
583	15.000	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
584	14.800	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
585	14.600	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
586	14.400	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00

587	14.200	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
588	14.000	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
589	13.800	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
590	13.600	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
591	13.400	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
592	13.200	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	0.02	0.00	0.17	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
593	13.000	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	0.02	0.00	0.18	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
594	12.800	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	0.02	0.00	0.18	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
595	12.600	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
596	12.400	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
597	12.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
598	12.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
599	11.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
600	11.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
601	11.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
602	11.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
603	11.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
604	10.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.65	6.65	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
605	10.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
606	10.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
607	10.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
608	10.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
609	9.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
610	9.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
611	9.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
612	9.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
613	9.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
614	8.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
615	8.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
616	8.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
617	8.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
618	8.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
619	7.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
620	7.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
621	7.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
622	7.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
623	7.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
624	6.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
625	6.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
626	6.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
627	6.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
628	6.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
629	5.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
630	5.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
631	5.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
632	5.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
633	5.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
634	4.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
635	4.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
636	4.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
637	4.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00

638	4.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
639	3.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
640	3.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
641	3.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
642	3.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
643	3.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
644	2.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
645	2.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
646	2.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
647	2.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
648	2.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
649	1.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
650	1.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
651	1.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
652	1.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
653	1.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
654	0.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
655	0.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
656	0.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
657	0.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
658	0.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00

SPECIAL REPORT: Praire
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 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 1/da	ORG-N 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
549	5.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
550	5.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
551	5.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
552	5.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
553	5.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
554	4.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
555	4.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
556	4.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
557	4.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
558	4.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
559	3.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
560	3.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
561	3.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
562	3.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
563	3.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
564	2.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
565	2.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
566	2.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
567	2.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
568	2.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
569	1.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

570	1.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
571	1.400	7.57	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.36	7.36	0.02	0.00	0.20	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
572	1.200	7.57	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.39	7.39	0.02	0.00	0.20	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00
573	1.000	7.56	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.43	7.43	0.02	0.00	0.20	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
574	0.800	7.55	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.46	7.46	0.02	0.00	0.20	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
575	0.600	7.54	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.50	7.50	0.02	0.00	0.20	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
576	0.400	7.53	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.53	7.53	0.02	0.00	0.19	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
577	0.200	7.52	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.57	7.57	0.02	0.00	0.18	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
578	0.000	7.51	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.60	7.60	0.02	0.00	0.16	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00

SPECIAL REPORT: Black Lake Bayou
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV VELO m/s	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	125.60	125.40	0.1665	0.022	0.85	9.0	1518.	1790.3	7.6	0.	0.000	0.000	0.022
2	125.40	125.20	0.1671	0.022	0.85	9.0	1521.	1791.0	7.6	0.	0.000	0.000	0.022
3	125.20	125.00	0.1676	0.022	0.85	9.0	1524.	1791.7	7.6	0.	0.000	0.000	0.022
4	125.00	124.80	0.1681	0.022	0.85	9.0	1527.	1792.4	7.6	0.	0.000	0.000	0.022
5	124.80	124.60	0.1687	0.022	0.85	9.0	1529.	1793.1	7.6	0.	0.000	0.000	0.022
6	124.60	124.40	0.1692	0.022	0.85	9.0	1532.	1793.8	7.7	0.	0.000	0.000	0.022
7	124.40	124.20	0.1697	0.022	0.86	9.0	1535.	1794.4	7.7	0.	0.000	0.000	0.022
8	124.20	124.00	0.1703	0.022	0.86	9.0	1538.	1795.1	7.7	0.	0.000	0.000	0.022
9	124.00	123.80	0.1708	0.022	0.86	9.0	1540.	1795.8	7.7	0.	0.000	0.000	0.022
10	123.80	123.60	0.1713	0.022	0.86	9.0	1543.	1796.5	7.7	0.	0.000	0.000	0.022
11	123.60	123.40	0.1719	0.022	0.86	9.0	1546.	1797.1	7.7	0.	0.000	0.000	0.022
12	123.40	123.20	0.1724	0.022	0.86	9.0	1549.	1797.8	7.7	0.	0.000	0.000	0.022
13	123.20	123.00	0.1729	0.022	0.86	9.0	1551.	1798.5	7.8	0.	0.000	0.000	0.022
14	123.00	122.80	0.1735	0.022	0.86	9.0	1554.	1799.1	7.8	0.	0.000	0.000	0.022
15	122.80	122.60	0.1740	0.022	0.87	9.0	1557.	1799.8	7.8	0.	0.000	0.000	0.022
16	122.60	122.40	0.1745	0.022	0.87	9.0	1560.	1800.5	7.8	0.	0.000	0.000	0.022
17	122.40	122.20	0.1751	0.022	0.87	9.0	1562.	1801.1	7.8	0.	0.000	0.000	0.022
18	122.20	122.00	0.1756	0.022	0.87	9.0	1565.	1801.8	7.8	0.	0.000	0.000	0.022
19	122.00	121.80	0.1762	0.022	0.87	9.0	1568.	1802.4	7.8	0.	0.000	0.000	0.022
20	121.80	121.60	0.1767	0.023	0.87	9.0	1570.	1803.1	7.9	0.	0.000	0.000	0.023
21	121.60	121.40	0.1772	0.023	0.87	9.0	1573.	1803.7	7.9	0.	0.000	0.000	0.023
22	121.40	121.20	0.1778	0.023	0.87	9.0	1576.	1804.4	7.9	0.	0.000	0.000	0.023
23	121.20	121.00	0.1783	0.023	0.87	9.0	1579.	1805.0	7.9	0.	0.000	0.000	0.023
24	121.00	120.80	0.1788	0.023	0.88	9.0	1581.	1805.7	7.9	0.	0.000	0.000	0.023
25	120.80	120.60	0.1794	0.023	0.88	9.0	1584.	1806.3	7.9	0.	0.000	0.000	0.023
26	120.60	120.40	0.1799	0.023	0.88	9.0	1587.	1807.0	7.9	0.	0.000	0.000	0.023
27	120.40	120.20	0.1804	0.023	0.88	9.0	1589.	1807.6	7.9	0.	0.000	0.000	0.023
28	120.20	120.00	0.1810	0.023	0.88	9.0	1592.	1808.3	8.0	0.	0.000	0.000	0.023
29	120.00	119.80	0.1815	0.023	0.88	9.0	1595.	1808.9	8.0	0.	0.000	0.000	0.023
30	119.80	119.60	0.1820	0.023	0.88	9.0	1597.	1809.5	8.0	0.	0.000	0.000	0.023
31	119.60	119.40	0.1826	0.023	0.88	9.1	1600.	1810.2	8.0	0.	0.000	0.000	0.023
32	119.40	119.20	0.1831	0.023	0.89	9.1	1603.	1810.8	8.0	0.	0.000	0.000	0.023
33	119.20	119.00	0.1836	0.023	0.89	9.1	1605.	1811.5	8.0	0.	0.000	0.000	0.023

34	119.00	118.80	0.1842	0.023	0.89	9.1	1608.	1812.1	8.0	0.	0.000	0.000	0.023
35	118.80	118.60	0.1847	0.023	0.89	9.1	1611.	1812.7	8.1	0.	0.000	0.000	0.023
36	118.60	118.40	0.1852	0.023	0.89	9.1	1613.	1813.3	8.1	0.	0.000	0.000	0.023
37	118.40	118.20	0.1858	0.023	0.89	9.1	1616.	1814.0	8.1	0.	0.000	0.000	0.023
38	118.20	118.00	0.1863	0.023	0.89	9.1	1619.	1814.6	8.1	0.	0.000	0.000	0.023
39	118.00	117.80	0.1868	0.023	0.89	9.1	1621.	1815.2	8.1	0.	0.000	0.000	0.023
40	117.80	117.60	0.1874	0.023	0.89	9.1	1624.	1815.8	8.1	0.	0.000	0.000	0.023
41	117.60	117.40	0.1879	0.023	0.90	9.1	1626.	1816.5	8.1	0.	0.000	0.000	0.023
42	117.40	117.20	0.1884	0.023	0.90	9.1	1629.	1817.1	8.1	0.	0.000	0.000	0.023
43	117.20	117.00	0.1890	0.023	0.90	9.1	1632.	1817.7	8.2	0.	0.000	0.000	0.023
44	117.00	116.80	0.1895	0.023	0.90	9.1	1634.	1818.3	8.2	0.	0.000	0.000	0.023
45	116.80	116.60	0.1900	0.023	0.90	9.1	1637.	1818.9	8.2	0.	0.000	0.000	0.023
46	116.60	116.40	0.1906	0.023	0.90	9.1	1640.	1819.5	8.2	0.	0.000	0.000	0.023
47	116.40	116.20	0.1911	0.023	0.90	9.1	1642.	1820.2	8.2	0.	0.000	0.000	0.023
48	116.20	116.00	0.1916	0.023	0.90	9.1	1645.	1820.8	8.2	0.	0.000	0.000	0.023
49	116.00	115.80	0.1922	0.023	0.90	9.1	1647.	1821.4	8.2	0.	0.000	0.000	0.023
50	115.80	115.60	0.1927	0.023	0.91	9.1	1650.	1822.0	8.3	0.	0.000	0.000	0.023
51	115.60	115.40	0.1932	0.023	0.91	9.1	1653.	1822.6	8.3	0.	0.000	0.000	0.023
52	115.40	115.20	0.1938	0.023	0.91	9.1	1655.	1823.2	8.3	0.	0.000	0.000	0.023
53	115.20	115.00	0.1943	0.023	0.91	9.1	1658.	1823.8	8.3	0.	0.000	0.000	0.023
54	115.00	114.80	0.1949	0.023	0.91	9.1	1660.	1824.4	8.3	0.	0.000	0.000	0.023
55	114.80	114.60	0.1954	0.023	0.91	9.1	1663.	1825.0	8.3	0.	0.000	0.000	0.023
56	114.60	114.40	0.1959	0.024	0.91	9.1	1666.	1825.6	8.3	0.	0.000	0.000	0.024
57	114.40	114.20	0.1965	0.024	0.91	9.1	1668.	1826.2	8.3	0.	0.000	0.000	0.024
58	114.20	114.00	0.1970	0.024	0.91	9.1	1671.	1826.8	8.4	0.	0.000	0.000	0.024
59	114.00	113.80	0.1975	0.024	0.92	9.1	1673.	1827.4	8.4	0.	0.000	0.000	0.024
60	113.80	113.60	0.1981	0.024	0.92	9.1	1676.	1828.0	8.4	0.	0.000	0.000	0.024
61	113.60	113.40	0.1986	0.024	0.92	9.1	1679.	1828.6	8.4	0.	0.000	0.000	0.024
62	113.40	113.20	0.1991	0.024	0.92	9.1	1681.	1829.1	8.4	0.	0.000	0.000	0.024
63	113.20	113.00	0.1997	0.024	0.92	9.1	1684.	1829.7	8.4	0.	0.000	0.000	0.024
64	113.00	112.80	0.2002	0.024	0.92	9.2	1686.	1830.3	8.4	0.	0.000	0.000	0.024
65	112.80	112.60	0.2007	0.024	0.92	9.2	1689.	1830.9	8.4	0.	0.000	0.000	0.024
66	112.60	112.40	0.2013	0.024	0.92	9.2	1691.	1831.5	8.5	0.	0.000	0.000	0.024
67	112.40	112.20	0.2018	0.024	0.92	9.2	1694.	1832.1	8.5	0.	0.000	0.000	0.024
68	112.20	112.00	0.2023	0.024	0.93	9.2	1697.	1832.7	8.5	0.	0.000	0.000	0.024
69	112.00	111.80	0.2029	0.024	0.93	9.2	1699.	1833.2	8.5	0.	0.000	0.000	0.024
70	111.80	111.60	0.2034	0.024	0.93	9.2	1702.	1833.8	8.5	0.	0.000	0.000	0.024
71	111.60	111.40	0.2039	0.028	0.74	9.8	1452.	1966.6	7.3	0.	0.000	0.000	0.028
72	111.40	111.20	0.2045	0.028	0.74	9.8	1454.	1967.2	7.3	0.	0.000	0.000	0.028
73	111.20	111.00	0.2050	0.028	0.74	9.8	1456.	1967.8	7.3	0.	0.000	0.000	0.028
74	111.00	110.80	0.2055	0.028	0.74	9.8	1458.	1968.4	7.3	0.	0.000	0.000	0.028
75	110.80	110.60	0.2061	0.028	0.74	9.8	1461.	1969.1	7.3	0.	0.000	0.000	0.028
76	110.60	110.40	0.2066	0.028	0.74	9.8	1463.	1969.7	7.3	0.	0.000	0.000	0.028
77	110.40	110.20	0.2071	0.028	0.74	9.9	1465.	1970.3	7.3	0.	0.000	0.000	0.028
78	110.20	110.00	0.2077	0.028	0.74	9.9	1467.	1970.9	7.3	0.	0.000	0.000	0.028
79	110.00	109.80	0.2082	0.028	0.75	9.9	1469.	1971.5	7.3	0.	0.000	0.000	0.028
80	109.80	109.60	0.2087	0.028	0.75	9.9	1471.	1972.1	7.4	0.	0.000	0.000	0.028
81	109.60	109.40	0.2093	0.028	0.75	9.9	1474.	1972.7	7.4	0.	0.000	0.000	0.028
82	109.40	109.20	0.2098	0.028	0.75	9.9	1476.	1973.3	7.4	0.	0.000	0.000	0.028
83	109.20	109.00	0.2103	0.028	0.75	9.9	1478.	1973.9	7.4	0.	0.000	0.000	0.028
84	109.00	108.80	0.2109	0.028	0.75	9.9	1480.	1974.5	7.4	0.	0.000	0.000	0.028

85	108.80	108.60	0.2114	0.029	0.75	9.9	1482.	1975.1	7.4	0.	0.000	0.000	0.029
86	108.60	108.40	0.2119	0.029	0.75	9.9	1484.	1975.7	7.4	0.	0.000	0.000	0.029
87	108.40	108.20	0.2125	0.029	0.75	9.9	1486.	1976.3	7.4	0.	0.000	0.000	0.029
88	108.20	108.00	0.2130	0.029	0.75	9.9	1488.	1976.9	7.4	0.	0.000	0.000	0.029
89	108.00	107.80	0.2135	0.029	0.75	9.9	1491.	1977.5	7.5	0.	0.000	0.000	0.029
90	107.80	107.60	0.2141	0.029	0.75	9.9	1493.	1978.1	7.5	0.	0.000	0.000	0.029
91	107.60	107.40	0.2146	0.029	0.76	9.9	1495.	1978.7	7.5	0.	0.000	0.000	0.029
92	107.40	107.20	0.2151	0.029	0.76	9.9	1497.	1979.3	7.5	0.	0.000	0.000	0.029
93	107.20	107.00	0.2157	0.029	0.76	9.9	1499.	1979.9	7.5	0.	0.000	0.000	0.029
94	107.00	106.80	0.2162	0.029	0.76	9.9	1501.	1980.4	7.5	0.	0.000	0.000	0.029
95	106.80	106.60	0.2167	0.029	0.76	9.9	1503.	1981.0	7.5	0.	0.000	0.000	0.029
96	106.60	106.40	0.2173	0.029	0.76	9.9	1505.	1981.6	7.5	0.	0.000	0.000	0.029
97	106.40	106.20	0.2178	0.029	0.76	9.9	1508.	1982.2	7.5	0.	0.000	0.000	0.029
98	106.20	106.00	0.2183	0.029	0.76	9.9	1510.	1982.8	7.5	0.	0.000	0.000	0.029
99	106.00	105.80	0.2189	0.029	0.76	9.9	1512.	1983.4	7.6	0.	0.000	0.000	0.029
100	105.80	105.60	0.2194	0.029	0.76	9.9	1514.	1983.9	7.6	0.	0.000	0.000	0.029
101	105.60	105.40	0.2200	0.029	0.76	9.9	1516.	1984.5	7.6	0.	0.000	0.000	0.029
102	105.40	105.20	0.2205	0.029	0.76	9.9	1518.	1985.1	7.6	0.	0.000	0.000	0.029
103	105.20	105.00	0.2210	0.029	0.77	9.9	1520.	1985.7	7.6	0.	0.000	0.000	0.029
104	105.00	104.80	0.2216	0.029	0.77	9.9	1522.	1986.3	7.6	0.	0.000	0.000	0.029
105	104.80	104.60	0.2221	0.029	0.77	9.9	1524.	1986.8	7.6	0.	0.000	0.000	0.029
106	104.60	104.40	0.2226	0.029	0.77	9.9	1526.	1987.4	7.6	0.	0.000	0.000	0.029
107	104.40	104.20	0.2232	0.029	0.77	9.9	1528.	1988.0	7.6	0.	0.000	0.000	0.029
108	104.20	104.00	0.2237	0.029	0.77	9.9	1531.	1988.5	7.7	0.	0.000	0.000	0.029
109	104.00	103.80	0.2242	0.029	0.77	9.9	1533.	1989.1	7.7	0.	0.000	0.000	0.029
110	103.80	103.60	0.2248	0.029	0.77	9.9	1535.	1989.7	7.7	0.	0.000	0.000	0.029
111	103.60	103.40	0.2253	0.029	0.77	10.0	1537.	1990.2	7.7	0.	0.000	0.000	0.029
112	103.40	103.20	0.2258	0.029	0.77	10.0	1539.	1990.8	7.7	0.	0.000	0.000	0.029
113	103.20	103.00	0.2264	0.029	0.77	10.0	1541.	1991.4	7.7	0.	0.000	0.000	0.029
114	103.00	102.80	0.2269	0.029	0.77	10.0	1543.	1991.9	7.7	0.	0.000	0.000	0.029
115	102.80	102.60	0.2274	0.029	0.78	10.0	1545.	1992.5	7.7	0.	0.000	0.000	0.029
116	102.60	102.40	0.2280	0.029	0.78	10.0	1547.	1993.1	7.7	0.	0.000	0.000	0.029
117	102.40	102.20	0.2285	0.029	0.78	10.0	1549.	1993.6	7.7	0.	0.000	0.000	0.029
118	102.20	102.00	0.2290	0.030	0.78	10.0	1551.	1994.2	7.8	0.	0.000	0.000	0.030
119	102.00	101.80	0.2646	0.031	0.83	10.1	1684.	2029.0	8.4	0.	0.000	0.000	0.031
120	101.80	101.60	0.2651	0.031	0.83	10.1	1686.	2029.5	8.4	0.	0.000	0.000	0.031
121	101.60	101.40	0.2656	0.031	0.83	10.1	1688.	2030.0	8.4	0.	0.000	0.000	0.031
122	101.40	101.20	0.2662	0.031	0.83	10.2	1690.	2030.5	8.5	0.	0.000	0.000	0.031
123	101.20	101.00	0.2667	0.032	0.83	10.2	1692.	2030.9	8.5	0.	0.000	0.000	0.032
124	101.00	100.80	0.2672	0.032	0.83	10.2	1694.	2031.4	8.5	0.	0.000	0.000	0.032
125	100.80	100.60	0.2678	0.032	0.83	10.2	1696.	2031.9	8.5	0.	0.000	0.000	0.032
126	100.60	100.40	0.2683	0.032	0.84	10.2	1698.	2032.4	8.5	0.	0.000	0.000	0.032
127	100.40	100.20	0.2688	0.032	0.84	10.2	1700.	2032.9	8.5	0.	0.000	0.000	0.032
128	100.20	100.00	0.2694	0.032	0.84	10.2	1702.	2033.4	8.5	0.	0.000	0.000	0.032
129	100.00	99.80	0.2699	0.032	0.84	10.2	1703.	2033.9	8.5	0.	0.000	0.000	0.032
130	99.80	99.60	0.2704	0.032	0.84	10.2	1705.	2034.3	8.5	0.	0.000	0.000	0.032
131	99.60	99.40	0.2710	0.032	0.84	10.2	1707.	2034.8	8.5	0.	0.000	0.000	0.032
132	99.40	99.20	0.2715	0.032	0.84	10.2	1709.	2035.3	8.5	0.	0.000	0.000	0.032
133	99.20	99.00	0.2720	0.032	0.84	10.2	1711.	2035.8	8.6	0.	0.000	0.000	0.032
134	99.00	98.80	0.2726	0.032	0.84	10.2	1713.	2036.3	8.6	0.	0.000	0.000	0.032
135	98.80	98.60	0.2731	0.032	0.84	10.2	1715.	2036.7	8.6	0.	0.000	0.000	0.032

136	98.60	98.40	0.2736	0.032	0.84	10.2	1717.	2037.2	8.6	0.	0.000	0.000	0.032
137	98.40	98.20	0.2742	0.032	0.84	10.2	1719.	2037.7	8.6	0.	0.000	0.000	0.032
138	98.20	98.00	0.2747	0.032	0.84	10.2	1721.	2038.2	8.6	0.	0.000	0.000	0.032
139	98.00	97.80	0.2752	0.032	0.84	10.2	1723.	2038.6	8.6	0.	0.000	0.000	0.032
140	97.80	97.60	0.2758	0.032	0.85	10.2	1725.	2039.1	8.6	0.	0.000	0.000	0.032
141	97.60	97.40	0.2763	0.032	0.85	10.2	1726.	2039.6	8.6	0.	0.000	0.000	0.032
142	97.40	97.20	0.3008	0.033	0.88	10.3	1812.	2060.5	9.1	0.	0.000	0.000	0.033
143	97.20	97.00	0.3014	0.033	0.88	10.3	1814.	2061.0	9.1	0.	0.000	0.000	0.033
144	97.00	96.80	0.3019	0.033	0.88	10.3	1816.	2061.4	9.1	0.	0.000	0.000	0.033
145	96.80	96.60	0.3024	0.033	0.88	10.3	1818.	2061.8	9.1	0.	0.000	0.000	0.033
146	96.60	96.40	0.3030	0.033	0.88	10.3	1820.	2062.3	9.1	0.	0.000	0.000	0.033
147	96.40	96.20	0.3035	0.033	0.88	10.3	1821.	2062.7	9.1	0.	0.000	0.000	0.033
148	96.20	96.00	0.3040	0.033	0.88	10.3	1823.	2063.1	9.1	0.	0.000	0.000	0.033
149	96.00	95.80	0.3046	0.033	0.88	10.3	1825.	2063.6	9.1	0.	0.000	0.000	0.033
150	95.80	95.60	0.3051	0.033	0.89	10.3	1827.	2064.0	9.1	0.	0.000	0.000	0.033
151	95.60	95.40	0.3056	0.033	0.89	10.3	1829.	2064.4	9.1	0.	0.000	0.000	0.033
152	95.40	95.20	0.3062	0.033	0.89	10.3	1830.	2064.9	9.2	0.	0.000	0.000	0.033
153	95.20	95.00	0.3067	0.033	0.89	10.3	1832.	2065.3	9.2	0.	0.000	0.000	0.033
154	95.00	94.80	0.3072	0.034	0.89	10.3	1834.	2065.7	9.2	0.	0.000	0.000	0.034
155	94.80	94.60	0.3078	0.034	0.89	10.3	1836.	2066.2	9.2	0.	0.000	0.000	0.034
156	94.60	94.40	0.3083	0.034	0.89	10.3	1838.	2066.6	9.2	0.	0.000	0.000	0.034
157	94.40	94.20	0.3089	0.034	0.89	10.3	1840.	2067.0	9.2	0.	0.000	0.000	0.034
158	94.20	94.00	0.3094	0.034	0.89	10.3	1841.	2067.5	9.2	0.	0.000	0.000	0.034
159	94.00	93.80	0.3099	0.034	0.89	10.3	1843.	2067.9	9.2	0.	0.000	0.000	0.034
160	93.80	93.60	0.3105	0.034	0.89	10.3	1845.	2068.3	9.2	0.	0.000	0.000	0.034
161	93.60	93.40	0.3110	0.034	0.89	10.3	1847.	2068.7	9.2	0.	0.000	0.000	0.034
162	93.40	93.20	0.3115	0.034	0.89	10.3	1849.	2069.2	9.2	0.	0.000	0.000	0.034
163	93.20	93.00	0.3121	0.034	0.89	10.3	1850.	2069.6	9.3	0.	0.000	0.000	0.034
164	93.00	92.80	0.3126	0.034	0.89	10.4	1852.	2070.0	9.3	0.	0.000	0.000	0.034
165	92.80	92.60	0.3131	0.034	0.90	10.4	1854.	2070.4	9.3	0.	0.000	0.000	0.034
166	92.60	92.40	0.3137	0.034	0.90	10.4	1856.	2070.9	9.3	0.	0.000	0.000	0.034
167	92.40	92.20	0.3142	0.034	0.90	10.4	1858.	2071.3	9.3	0.	0.000	0.000	0.034
168	92.20	92.00	0.3147	0.034	0.90	10.4	1859.	2071.7	9.3	0.	0.000	0.000	0.034
169	92.00	91.80	0.3153	0.034	0.90	10.4	1861.	2072.1	9.3	0.	0.000	0.000	0.034
170	91.80	91.60	0.3158	0.034	0.90	10.4	1863.	2072.5	9.3	0.	0.000	0.000	0.034
171	91.60	91.40	0.3163	0.034	0.90	10.4	1865.	2073.0	9.3	0.	0.000	0.000	0.034
172	91.40	91.20	0.3169	0.034	0.90	10.4	1867.	2073.4	9.3	0.	0.000	0.000	0.034
173	91.20	91.00	0.3174	0.034	0.90	10.4	1868.	2073.8	9.3	0.	0.000	0.000	0.034
174	91.00	90.80	0.3179	0.034	0.90	10.4	1870.	2074.2	9.4	0.	0.000	0.000	0.034
175	90.80	90.60	0.3185	0.034	0.90	10.4	1872.	2074.6	9.4	0.	0.000	0.000	0.034
176	90.60	90.40	0.3190	0.034	0.90	10.4	1874.	2075.1	9.4	0.	0.000	0.000	0.034
177	90.40	90.20	0.3195	0.034	0.90	10.4	1876.	2075.5	9.4	0.	0.000	0.000	0.034
178	90.20	90.00	0.3201	0.034	0.90	10.4	1877.	2075.9	9.4	0.	0.000	0.000	0.034
179	90.00	89.80	0.3206	0.034	0.91	10.4	1879.	2076.3	9.4	0.	0.000	0.000	0.034
180	89.80	89.60	0.3211	0.034	0.91	10.4	1881.	2076.7	9.4	0.	0.000	0.000	0.034
181	89.60	89.40	0.3217	0.034	0.91	10.4	1883.	2077.1	9.4	0.	0.000	0.000	0.034
182	89.40	89.20	0.3222	0.034	0.91	10.4	1884.	2077.6	9.4	0.	0.000	0.000	0.034
183	89.20	89.00	0.3227	0.034	0.91	10.4	1886.	2078.0	9.4	0.	0.000	0.000	0.034
184	89.00	88.80	0.3233	0.034	0.91	10.4	1888.	2078.4	9.4	0.	0.000	0.000	0.034
185	88.80	88.60	0.3238	0.034	0.91	10.4	1890.	2078.8	9.4	0.	0.000	0.000	0.034
186	88.60	88.40	0.3243	0.034	0.91	10.4	1892.	2079.2	9.5	0.	0.000	0.000	0.034

187	88.40	88.20	0.3249	0.034	0.91	10.4	1893.	2079.6	9.5	0.	0.000	0.000	0.034
188	88.20	88.00	0.3254	0.034	0.91	10.4	1895.	2080.0	9.5	0.	0.000	0.000	0.034
189	88.00	87.80	0.3259	0.034	0.91	10.4	1897.	2080.4	9.5	0.	0.000	0.000	0.034
190	87.80	87.60	0.3265	0.034	0.91	10.4	1899.	2080.8	9.5	0.	0.000	0.000	0.034
191	87.60	87.40	0.3270	0.034	0.91	10.4	1900.	2081.2	9.5	0.	0.000	0.000	0.034
192	87.40	87.20	0.3275	0.034	0.91	10.4	1902.	2081.7	9.5	0.	0.000	0.000	0.034
193	87.20	87.00	0.3281	0.034	0.91	10.4	1904.	2082.1	9.5	0.	0.000	0.000	0.034
194	87.00	86.80	0.3286	0.034	0.92	10.4	1906.	2082.5	9.5	0.	0.000	0.000	0.034
195	86.80	86.60	0.3291	0.035	0.92	10.4	1907.	2082.9	9.5	0.	0.000	0.000	0.035
196	86.60	86.40	0.3297	0.035	0.92	10.4	1909.	2083.3	9.5	0.	0.000	0.000	0.035
197	86.40	86.20	0.3302	0.035	0.92	10.4	1911.	2083.7	9.6	0.	0.000	0.000	0.035
198	86.20	86.00	0.3307	0.035	0.92	10.4	1913.	2084.1	9.6	0.	0.000	0.000	0.035
199	86.00	85.80	0.3313	0.035	0.92	10.4	1915.	2084.5	9.6	0.	0.000	0.000	0.035
200	85.80	85.60	0.3318	0.035	0.92	10.4	1916.	2084.9	9.6	0.	0.000	0.000	0.035
201	85.60	85.40	0.3323	0.035	0.92	10.4	1918.	2085.3	9.6	0.	0.000	0.000	0.035
202	85.40	85.20	0.3329	0.035	0.92	10.4	1920.	2085.7	9.6	0.	0.000	0.000	0.035
203	85.20	85.00	0.3334	0.035	0.92	10.4	1922.	2086.1	9.6	0.	0.000	0.000	0.035
204	85.00	84.80	0.3339	0.035	0.92	10.4	1923.	2086.5	9.6	0.	0.000	0.000	0.035
205	84.80	84.60	0.3345	0.035	0.92	10.4	1925.	2086.9	9.6	0.	0.000	0.000	0.035
206	84.60	84.40	0.3350	0.035	0.92	10.4	1927.	2087.3	9.6	0.	0.000	0.000	0.035
207	84.40	84.20	0.3355	0.035	0.92	10.4	1929.	2087.7	9.6	0.	0.000	0.000	0.035
208	84.20	84.00	0.3361	0.035	0.92	10.4	1930.	2088.1	9.7	0.	0.000	0.000	0.035
209	84.00	83.80	0.3366	0.035	0.93	10.4	1932.	2088.5	9.7	0.	0.000	0.000	0.035
210	83.80	83.60	0.3371	0.035	0.93	10.4	1934.	2088.9	9.7	0.	0.000	0.000	0.035
211	83.60	83.40	0.3377	0.035	0.93	10.4	1936.	2089.3	9.7	0.	0.000	0.000	0.035
212	83.40	83.20	0.3382	0.035	0.93	10.4	1937.	2089.7	9.7	0.	0.000	0.000	0.035
213	83.20	83.00	0.3387	0.035	0.93	10.5	1939.	2090.1	9.7	0.	0.000	0.000	0.035
214	83.00	82.80	0.3393	0.035	0.93	10.5	1941.	2090.5	9.7	0.	0.000	0.000	0.035
215	82.80	82.60	0.3398	0.035	0.93	10.5	1943.	2090.9	9.7	0.	0.000	0.000	0.035
216	82.60	82.40	0.3404	0.035	0.93	10.5	1944.	2091.3	9.7	0.	0.000	0.000	0.035
217	82.40	82.20	0.3409	0.035	0.93	10.5	1946.	2091.7	9.7	0.	0.000	0.000	0.035
218	82.20	82.00	0.3414	0.035	0.93	10.5	1948.	2092.0	9.7	0.	0.000	0.000	0.035
219	82.00	81.80	0.3420	0.035	0.93	10.5	1949.	2092.4	9.7	0.	0.000	0.000	0.035
220	81.80	81.60	0.3425	0.035	0.93	10.5	1951.	2092.8	9.8	0.	0.000	0.000	0.035
221	81.60	81.40	0.3430	0.035	0.93	10.5	1953.	2093.2	9.8	0.	0.000	0.000	0.035
222	81.40	81.20	0.3436	0.035	0.93	10.5	1955.	2093.6	9.8	0.	0.000	0.000	0.035
223	81.20	81.00	0.3441	0.035	0.93	10.5	1956.	2094.0	9.8	0.	0.000	0.000	0.035
224	81.00	80.80	0.3446	0.035	0.93	10.5	1958.	2094.4	9.8	0.	0.000	0.000	0.035
225	80.80	80.60	0.3452	0.035	0.94	10.5	1960.	2094.8	9.8	0.	0.000	0.000	0.035
226	80.60	80.40	0.3457	0.035	0.94	10.5	1962.	2095.2	9.8	0.	0.000	0.000	0.035
227	80.40	80.20	0.3462	0.035	0.94	10.5	1963.	2095.6	9.8	0.	0.000	0.000	0.035
228	80.20	80.00	0.3468	0.035	0.94	10.5	1965.	2095.9	9.8	0.	0.000	0.000	0.035
229	80.00	79.80	0.3473	0.035	0.94	10.5	1967.	2096.3	9.8	0.	0.000	0.000	0.035
230	79.80	79.60	0.3478	0.035	0.94	10.5	1968.	2096.7	9.8	0.	0.000	0.000	0.035
231	79.60	79.40	0.3754	0.037	0.97	10.6	2056.	2116.0	10.3	0.	0.000	0.000	0.037
232	79.40	79.20	0.3759	0.037	0.97	10.6	2058.	2116.3	10.3	0.	0.000	0.000	0.037
233	79.20	79.00	0.3764	0.037	0.97	10.6	2059.	2116.7	10.3	0.	0.000	0.000	0.037
234	79.00	78.80	0.3770	0.037	0.97	10.6	2061.	2117.1	10.3	0.	0.000	0.000	0.037
235	78.80	78.60	0.3775	0.037	0.97	10.6	2062.	2117.4	10.3	0.	0.000	0.000	0.037
236	78.60	78.40	0.3780	0.037	0.97	10.6	2064.	2117.8	10.3	0.	0.000	0.000	0.037
237	78.40	78.20	0.3786	0.037	0.98	10.6	2066.	2118.1	10.3	0.	0.000	0.000	0.037

238	78.20	78.00	0.3791	0.037	0.98	10.6	2067.	2118.5	10.3	0.	0.000	0.000	0.037
239	78.00	77.80	0.3796	0.037	0.98	10.6	2069.	2118.9	10.3	0.	0.000	0.000	0.037
240	77.80	77.60	0.3802	0.037	0.98	10.6	2071.	2119.2	10.4	0.	0.000	0.000	0.037
241	77.60	77.40	0.3807	0.037	0.98	10.6	2072.	2119.6	10.4	0.	0.000	0.000	0.037
242	77.40	77.20	0.3812	0.029	1.08	12.3	2644.	2458.4	13.2	0.	0.000	0.000	0.029
243	77.20	77.00	0.3818	0.029	1.08	12.3	2646.	2458.8	13.2	0.	0.000	0.000	0.029
244	77.00	76.80	0.3823	0.029	1.08	12.3	2648.	2459.2	13.2	0.	0.000	0.000	0.029
245	76.80	76.60	0.3828	0.029	1.08	12.3	2651.	2459.6	13.3	0.	0.000	0.000	0.029
246	76.60	76.40	0.3834	0.029	1.08	12.3	2653.	2460.0	13.3	0.	0.000	0.000	0.029
247	76.40	76.20	0.3839	0.029	1.08	12.3	2655.	2460.5	13.3	0.	0.000	0.000	0.029
248	76.20	76.00	0.3844	0.029	1.08	12.3	2657.	2460.9	13.3	0.	0.000	0.000	0.029
249	76.00	75.80	0.3850	0.029	1.08	12.3	2659.	2461.3	13.3	0.	0.000	0.000	0.029
250	75.80	75.60	0.3855	0.029	1.08	12.3	2661.	2461.7	13.3	0.	0.000	0.000	0.029
251	75.60	75.40	0.3860	0.029	1.08	12.3	2663.	2462.1	13.3	0.	0.000	0.000	0.029
252	75.40	75.20	0.3866	0.029	1.08	12.3	2665.	2462.5	13.3	0.	0.000	0.000	0.029
253	75.20	75.00	0.3871	0.029	1.08	12.3	2667.	2462.9	13.3	0.	0.000	0.000	0.029
254	75.00	74.80	0.3876	0.029	1.08	12.3	2669.	2463.3	13.3	0.	0.000	0.000	0.029
255	74.80	74.60	0.3882	0.029	1.08	12.3	2672.	2463.7	13.4	0.	0.000	0.000	0.029
256	74.60	74.40	0.3887	0.029	1.09	12.3	2674.	2464.1	13.4	0.	0.000	0.000	0.029
257	74.40	74.20	0.3892	0.029	1.09	12.3	2676.	2464.5	13.4	0.	0.000	0.000	0.029
258	74.20	74.00	0.3898	0.029	1.09	12.3	2678.	2464.9	13.4	0.	0.000	0.000	0.029
259	74.00	73.80	0.3903	0.029	1.09	12.3	2680.	2465.3	13.4	0.	0.000	0.000	0.029
260	73.80	73.60	0.3908	0.029	1.09	12.3	2682.	2465.7	13.4	0.	0.000	0.000	0.029
261	73.60	73.40	0.3914	0.029	1.09	12.3	2684.	2466.1	13.4	0.	0.000	0.000	0.029
262	73.40	73.20	0.3919	0.029	1.09	12.3	2686.	2466.6	13.4	0.	0.000	0.000	0.029
263	73.20	73.00	0.3924	0.029	1.09	12.3	2688.	2467.0	13.4	0.	0.000	0.000	0.029
264	73.00	72.80	0.3930	0.029	1.09	12.3	2690.	2467.4	13.5	0.	0.000	0.000	0.029
265	72.80	72.60	0.3935	0.029	1.09	12.3	2692.	2467.8	13.5	0.	0.000	0.000	0.029
266	72.60	72.40	0.3940	0.029	1.09	12.3	2694.	2468.2	13.5	0.	0.000	0.000	0.029
267	72.40	72.20	0.3946	0.029	1.09	12.3	2697.	2468.6	13.5	0.	0.000	0.000	0.029
268	72.20	72.00	0.3951	0.029	1.09	12.3	2699.	2469.0	13.5	0.	0.000	0.000	0.029
269	72.00	71.80	0.3956	0.029	1.09	12.3	2701.	2469.4	13.5	0.	0.000	0.000	0.029
270	71.80	71.60	0.3962	0.029	1.09	12.3	2703.	2469.8	13.5	0.	0.000	0.000	0.029
271	71.60	71.40	0.3967	0.029	1.10	12.4	2705.	2470.2	13.5	0.	0.000	0.000	0.029
272	71.40	71.20	0.3972	0.029	1.10	12.4	2707.	2470.6	13.5	0.	0.000	0.000	0.029
273	71.20	71.00	0.3978	0.029	1.10	12.4	2709.	2471.0	13.5	0.	0.000	0.000	0.029
274	71.00	70.80	0.3983	0.029	1.10	12.4	2711.	2471.3	13.6	0.	0.000	0.000	0.029
275	70.80	70.60	0.3988	0.029	1.10	12.4	2713.	2471.7	13.6	0.	0.000	0.000	0.029
276	70.60	70.40	0.3994	0.029	1.10	12.4	2715.	2472.1	13.6	0.	0.000	0.000	0.029
277	70.40	70.20	0.3999	0.029	1.10	12.4	2717.	2472.5	13.6	0.	0.000	0.000	0.029
278	70.20	70.00	0.4004	0.029	1.10	12.4	2719.	2472.9	13.6	0.	0.000	0.000	0.029
279	70.00	69.80	0.4010	0.029	1.10	12.4	2721.	2473.3	13.6	0.	0.000	0.000	0.029
280	69.80	69.60	0.4015	0.029	1.10	12.4	2723.	2473.7	13.6	0.	0.000	0.000	0.029
281	69.60	69.40	0.4020	0.030	1.10	12.4	2725.	2474.1	13.6	0.	0.000	0.000	0.030
282	69.40	69.20	0.4026	0.030	1.10	12.4	2728.	2474.5	13.6	0.	0.000	0.000	0.030
283	69.20	69.00	0.4031	0.030	1.10	12.4	2730.	2474.9	13.6	0.	0.000	0.000	0.030
284	69.00	68.80	0.4036	0.030	1.10	12.4	2732.	2475.3	13.7	0.	0.000	0.000	0.030
285	68.80	68.60	0.4042	0.030	1.10	12.4	2734.	2475.7	13.7	0.	0.000	0.000	0.030
286	68.60	68.40	0.4047	0.030	1.10	12.4	2736.	2476.1	13.7	0.	0.000	0.000	0.030
287	68.40	68.20	0.4052	0.030	1.11	12.4	2738.	2476.5	13.7	0.	0.000	0.000	0.030
288	68.20	68.00	0.4058	0.030	1.11	12.4	2740.	2476.9	13.7	0.	0.000	0.000	0.030

289	68.00	67.80	0.4063	0.030	1.11	12.4	2742.	2477.3	13.7	0.	0.000	0.000	0.030
290	67.80	67.60	0.4068	0.030	1.11	12.4	2744.	2477.6	13.7	0.	0.000	0.000	0.030
291	67.60	67.40	0.4074	0.030	1.11	12.4	2746.	2478.0	13.7	0.	0.000	0.000	0.030
292	67.40	67.20	0.4079	0.030	1.11	12.4	2748.	2478.4	13.7	0.	0.000	0.000	0.030
293	67.20	67.00	0.4084	0.030	1.11	12.4	2750.	2478.8	13.8	0.	0.000	0.000	0.030
294	67.00	66.80	0.4090	0.030	1.11	12.4	2752.	2479.2	13.8	0.	0.000	0.000	0.030
295	66.80	66.60	0.4095	0.030	1.11	12.4	2754.	2479.6	13.8	0.	0.000	0.000	0.030
296	66.60	66.40	0.4100	0.030	1.11	12.4	2756.	2480.0	13.8	0.	0.000	0.000	0.030
297	66.40	66.20	0.4106	0.030	1.11	12.4	2758.	2480.4	13.8	0.	0.000	0.000	0.030
298	66.20	66.00	0.4111	0.030	1.11	12.4	2760.	2480.7	13.8	0.	0.000	0.000	0.030
299	66.00	65.80	0.4116	0.030	1.11	12.4	2762.	2481.1	13.8	0.	0.000	0.000	0.030
300	65.80	65.60	0.4122	0.030	1.11	12.4	2764.	2481.5	13.8	0.	0.000	0.000	0.030
301	65.60	65.40	0.4127	0.030	1.11	12.4	2766.	2481.9	13.8	0.	0.000	0.000	0.030
302	65.40	65.20	0.4132	0.030	1.12	12.4	2769.	2482.3	13.8	0.	0.000	0.000	0.030
303	65.20	65.00	0.4138	0.030	1.12	12.4	2771.	2482.7	13.9	0.	0.000	0.000	0.030
304	65.00	64.80	0.4143	0.030	1.12	12.4	2773.	2483.1	13.9	0.	0.000	0.000	0.030
305	64.80	64.60	0.4148	0.030	1.12	12.4	2775.	2483.4	13.9	0.	0.000	0.000	0.030
306	64.60	64.40	0.4154	0.030	1.12	12.4	2777.	2483.8	13.9	0.	0.000	0.000	0.030
307	64.40	64.20	0.4159	0.030	1.12	12.4	2779.	2484.2	13.9	0.	0.000	0.000	0.030
308	64.20	64.00	0.4164	0.030	1.12	12.4	2781.	2484.6	13.9	0.	0.000	0.000	0.030
309	64.00	63.80	0.4170	0.030	1.12	12.4	2783.	2485.0	13.9	0.	0.000	0.000	0.030
310	63.80	63.60	0.4175	0.030	1.12	12.4	2785.	2485.4	13.9	0.	0.000	0.000	0.030
311	63.60	63.40	0.4180	0.030	1.12	12.4	2787.	2485.7	13.9	0.	0.000	0.000	0.030
312	63.40	63.20	0.4186	0.030	1.12	12.4	2789.	2486.1	13.9	0.	0.000	0.000	0.030
313	63.20	63.00	0.4191	0.030	1.12	12.4	2791.	2486.5	14.0	0.	0.000	0.000	0.030
314	63.00	62.80	0.4196	0.030	1.12	12.4	2793.	2486.9	14.0	0.	0.000	0.000	0.030
315	62.80	62.60	0.4202	0.030	1.12	12.4	2795.	2487.3	14.0	0.	0.000	0.000	0.030
316	62.60	62.40	0.4207	0.030	1.12	12.4	2797.	2487.6	14.0	0.	0.000	0.000	0.030
317	62.40	62.20	0.4212	0.030	1.12	12.4	2799.	2488.0	14.0	0.	0.000	0.000	0.030
318	62.20	62.00	0.4218	0.030	1.13	12.4	2801.	2488.4	14.0	0.	0.000	0.000	0.030
319	62.00	61.80	0.4223	0.030	1.13	12.4	2803.	2488.8	14.0	0.	0.000	0.000	0.030
320	61.80	61.60	0.4228	0.030	1.13	12.4	2805.	2489.1	14.0	0.	0.000	0.000	0.030
321	61.60	61.40	0.4234	0.030	1.13	12.4	2807.	2489.5	14.0	0.	0.000	0.000	0.030
322	61.40	61.20	0.4239	0.030	1.13	12.4	2809.	2489.9	14.0	0.	0.000	0.000	0.030
323	61.20	61.00	0.4244	0.030	1.13	12.5	2811.	2490.3	14.1	0.	0.000	0.000	0.030
324	61.00	60.80	0.4250	0.030	1.13	12.5	2813.	2490.6	14.1	0.	0.000	0.000	0.030
325	60.80	60.60	0.4255	0.030	1.13	12.5	2815.	2491.0	14.1	0.	0.000	0.000	0.030
326	60.60	60.40	0.4260	0.030	1.13	12.5	2817.	2491.4	14.1	0.	0.000	0.000	0.030
327	60.40	60.20	0.4266	0.030	1.13	12.5	2819.	2491.8	14.1	0.	0.000	0.000	0.030
328	60.20	60.00	0.4271	0.030	1.13	12.5	2821.	2492.1	14.1	0.	0.000	0.000	0.030
329	60.00	59.80	0.4276	0.030	1.13	12.5	2823.	2492.5	14.1	0.	0.000	0.000	0.030
330	59.80	59.60	0.4282	0.030	1.13	12.5	2825.	2492.9	14.1	0.	0.000	0.000	0.030
331	59.60	59.40	0.4287	0.030	1.13	12.5	2827.	2493.3	14.1	0.	0.000	0.000	0.030
332	59.40	59.20	0.4292	0.030	1.13	12.5	2829.	2493.6	14.1	0.	0.000	0.000	0.030
333	59.20	59.00	0.4298	0.030	1.14	12.5	2831.	2494.0	14.2	0.	0.000	0.000	0.030
334	59.00	58.80	0.4303	0.030	1.14	12.5	2833.	2494.4	14.2	0.	0.000	0.000	0.030
335	58.80	58.60	0.4308	0.030	1.14	12.5	2835.	2494.7	14.2	0.	0.000	0.000	0.030
336	58.60	58.40	0.4314	0.030	1.14	12.5	2837.	2495.1	14.2	0.	0.000	0.000	0.030
337	58.40	58.20	0.4319	0.030	1.14	12.5	2839.	2495.5	14.2	0.	0.000	0.000	0.030
338	58.20	58.00	0.4324	0.030	1.14	12.5	2841.	2495.9	14.2	0.	0.000	0.000	0.030
339	58.00	57.80	0.4330	0.030	1.14	12.5	2843.	2496.2	14.2	0.	0.000	0.000	0.030

340	57.80	57.60	0.4335	0.030	1.14	12.5	2845.	2496.6	14.2	0.	0.000	0.000	0.030
341	57.60	57.40	0.4340	0.030	1.14	12.5	2847.	2497.0	14.2	0.	0.000	0.000	0.030
342	57.40	57.20	0.4346	0.031	1.14	12.5	2849.	2497.3	14.2	0.	0.000	0.000	0.031
343	57.20	57.00	0.4351	0.031	1.14	12.5	2851.	2497.7	14.3	0.	0.000	0.000	0.031
344	57.00	56.80	0.4356	0.031	1.14	12.5	2853.	2498.1	14.3	0.	0.000	0.000	0.031
345	56.80	56.60	0.4362	0.031	1.14	12.5	2855.	2498.4	14.3	0.	0.000	0.000	0.031
346	56.60	56.40	0.4367	0.031	1.14	12.5	2857.	2498.8	14.3	0.	0.000	0.000	0.031
347	56.40	56.20	0.4372	0.031	1.14	12.5	2859.	2499.2	14.3	0.	0.000	0.000	0.031
348	56.20	56.00	0.4378	0.031	1.14	12.5	2861.	2499.5	14.3	0.	0.000	0.000	0.031
349	56.00	55.80	0.4383	0.031	1.15	12.5	2863.	2499.9	14.3	0.	0.000	0.000	0.031
350	55.80	55.60	0.4388	0.031	1.15	12.5	2865.	2500.3	14.3	0.	0.000	0.000	0.031
351	55.60	55.40	0.4394	0.031	1.15	12.5	2867.	2500.6	14.3	0.	0.000	0.000	0.031
352	55.40	55.20	0.4399	0.031	1.15	12.5	2869.	2501.0	14.3	0.	0.000	0.000	0.031
353	55.20	55.00	0.4404	0.031	1.15	12.5	2871.	2501.4	14.4	0.	0.000	0.000	0.031
354	55.00	54.80	0.4410	0.031	1.15	12.5	2873.	2501.7	14.4	0.	0.000	0.000	0.031
355	54.80	54.60	0.4415	0.031	1.15	12.5	2875.	2502.1	14.4	0.	0.000	0.000	0.031
356	54.60	54.40	0.4420	0.031	1.15	12.5	2877.	2502.4	14.4	0.	0.000	0.000	0.031
357	54.40	54.20	0.4426	0.031	1.15	12.5	2879.	2502.8	14.4	0.	0.000	0.000	0.031
358	54.20	54.00	0.4431	0.031	1.15	12.5	2881.	2503.2	14.4	0.	0.000	0.000	0.031
359	54.00	53.80	0.4436	0.031	1.15	12.5	2883.	2503.5	14.4	0.	0.000	0.000	0.031
360	53.80	53.60	0.4442	0.031	1.15	12.5	2885.	2503.9	14.4	0.	0.000	0.000	0.031
361	53.60	53.40	0.4447	0.031	1.15	12.5	2887.	2504.2	14.4	0.	0.000	0.000	0.031
362	53.40	53.20	0.4452	0.031	1.15	12.5	2889.	2504.6	14.4	0.	0.000	0.000	0.031
363	53.20	53.00	0.4458	0.031	1.15	12.5	2891.	2505.0	14.5	0.	0.000	0.000	0.031
364	53.00	52.80	0.4463	0.031	1.15	12.5	2893.	2505.3	14.5	0.	0.000	0.000	0.031
365	52.80	52.60	0.4468	0.031	1.16	12.5	2895.	2505.7	14.5	0.	0.000	0.000	0.031
366	52.60	52.40	0.4474	0.031	1.16	12.5	2897.	2506.0	14.5	0.	0.000	0.000	0.031
367	52.40	52.20	0.4479	0.031	1.16	12.5	2899.	2506.4	14.5	0.	0.000	0.000	0.031
368	52.20	52.00	0.4484	0.031	1.16	12.5	2901.	2506.8	14.5	0.	0.000	0.000	0.031
369	52.00	51.80	0.4490	0.031	1.16	12.5	2903.	2507.1	14.5	0.	0.000	0.000	0.031
370	51.80	51.60	0.4495	0.031	1.16	12.5	2905.	2507.5	14.5	0.	0.000	0.000	0.031
371	51.60	51.40	0.4500	0.031	1.16	12.5	2906.	2507.8	14.5	0.	0.000	0.000	0.031
372	51.40	51.20	0.4506	0.031	1.16	12.5	2908.	2508.2	14.5	0.	0.000	0.000	0.031
373	51.20	51.00	0.4511	0.031	1.16	12.5	2910.	2508.5	14.6	0.	0.000	0.000	0.031
374	51.00	50.80	0.4516	0.031	1.16	12.5	2912.	2508.9	14.6	0.	0.000	0.000	0.031
375	50.80	50.60	0.4522	0.031	1.16	12.5	2914.	2509.3	14.6	0.	0.000	0.000	0.031
376	50.60	50.40	0.4527	0.031	1.16	12.5	2916.	2509.6	14.6	0.	0.000	0.000	0.031
377	50.40	50.20	0.4532	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
378	50.20	50.00	0.4538	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
379	50.00	49.80	0.4543	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
380	49.80	49.60	0.4548	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
381	49.60	49.40	0.4554	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
382	49.40	49.20	0.4559	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
383	49.20	49.00	0.4564	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
384	49.00	48.80	0.4570	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
385	48.80	48.60	0.4575	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
386	48.60	48.40	0.4580	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
387	48.40	48.20	0.4586	0.005	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.005
388	48.20	48.00	0.5511	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
389	48.00	47.80	0.5516	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
390	47.80	47.60	0.5522	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006

391	47.60	47.40	0.5527	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
392	47.40	47.20	0.5532	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
393	47.20	47.00	0.5538	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
394	47.00	46.80	0.5543	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
395	46.80	46.60	0.5549	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
396	46.60	46.40	0.5554	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
397	46.40	46.20	0.5559	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
398	46.20	46.00	0.5565	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
399	46.00	45.80	0.5570	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
400	45.80	45.60	0.5575	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
401	45.60	45.40	0.5581	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
402	45.40	45.20	0.5586	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
403	45.20	45.00	0.5591	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
404	45.00	44.80	0.5597	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
405	44.80	44.60	0.5602	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
406	44.60	44.40	0.5607	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
407	44.40	44.20	0.5613	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
408	44.20	44.00	0.5618	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
409	44.00	43.80	0.5623	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
410	43.80	43.60	0.5629	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
411	43.60	43.40	0.5634	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
412	43.40	43.20	0.5639	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
413	43.20	43.00	0.5645	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
414	43.00	42.80	0.5650	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
415	42.80	42.60	0.5655	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
416	42.60	42.40	0.5661	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
417	42.40	42.20	0.5666	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
418	42.20	42.00	0.5671	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
419	42.00	41.80	0.5677	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
420	41.80	41.60	0.5682	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
421	41.60	41.40	0.5687	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
422	41.40	41.20	0.5693	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
423	41.20	41.00	0.5698	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
424	41.00	40.80	0.5703	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
425	40.80	40.60	0.5709	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
426	40.60	40.40	0.5714	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
427	40.40	40.20	0.5719	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
428	40.20	40.00	0.5725	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
429	40.00	39.80	0.5730	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
430	39.80	39.60	0.5735	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
431	39.60	39.40	0.5741	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
432	39.40	39.20	0.5746	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
433	39.20	39.00	0.5752	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
434	39.00	38.80	0.5757	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
435	38.80	38.60	0.5762	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
436	38.60	38.40	0.5768	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
437	38.40	38.20	0.5773	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
438	38.20	38.00	0.5778	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
439	38.00	37.80	0.5784	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
440	37.80	37.60	0.5789	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
441	37.60	37.40	0.5794	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006

442	37.40	37.20	0.5800	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
443	37.20	37.00	0.5805	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
444	37.00	36.80	0.5810	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
445	36.80	36.60	0.5816	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
446	36.60	36.40	0.5821	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
447	36.40	36.20	0.5826	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
448	36.20	36.00	0.5832	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
449	36.00	35.80	0.5837	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
450	35.80	35.60	0.5842	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
451	35.60	35.40	0.5848	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
452	35.40	35.20	0.5853	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
453	35.20	35.00	0.5858	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
454	35.00	34.80	0.5864	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
455	34.80	34.60	0.5869	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
456	34.60	34.40	0.5874	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
457	34.40	34.20	0.5880	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
458	34.20	34.00	0.5885	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
459	34.00	33.80	0.5890	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
460	33.80	33.60	0.5896	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
461	33.60	33.40	0.5901	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
462	33.40	33.20	0.5906	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
463	33.20	33.00	0.5912	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
464	33.00	32.80	0.5917	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
465	32.80	32.60	0.5922	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
466	32.60	32.40	0.5928	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
467	32.40	32.20	0.5933	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
468	32.20	32.00	0.5938	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
469	32.00	31.80	0.5944	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
470	31.80	31.60	0.5949	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
471	31.60	31.40	0.5954	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
472	31.40	31.20	0.5960	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
473	31.20	31.00	0.5965	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
474	31.00	30.80	0.5970	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
475	30.80	30.60	0.5976	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
476	30.60	30.40	0.5981	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
477	30.40	30.20	0.5986	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
478	30.20	30.00	0.5992	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
479	30.00	29.80	0.5997	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
480	29.80	29.60	0.6003	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
481	29.60	29.40	0.6008	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
482	29.40	29.20	0.6013	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
483	29.20	29.00	0.6019	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
484	29.00	28.80	0.6024	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
485	28.80	28.60	0.6029	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
486	28.60	28.40	0.6035	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
487	28.40	28.20	0.6040	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
488	28.20	28.00	0.6045	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
489	28.00	27.80	0.6051	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
490	27.80	27.60	0.6056	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
491	27.60	27.40	0.6061	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
492	27.40	27.20	0.6067	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006

493	27.20	27.00	0.6072	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
494	27.00	26.80	0.6077	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
495	26.80	26.60	0.6083	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
496	26.60	26.40	0.6088	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
497	26.40	26.20	0.6093	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
498	26.20	26.00	0.6099	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
499	26.00	25.80	0.6104	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
500	25.80	25.60	0.6109	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
501	25.60	25.40	0.6115	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
502	25.40	25.20	0.6120	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
503	25.20	25.00	0.6125	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
504	25.00	24.80	0.6131	0.006	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.006
505	24.80	24.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
506	24.60	24.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
507	24.40	24.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
508	24.20	24.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
509	24.00	23.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
510	23.80	23.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
511	23.60	23.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
512	23.40	23.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
513	23.20	23.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
514	23.00	22.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
515	22.80	22.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
516	22.60	22.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
517	22.40	22.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
518	22.20	22.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
519	22.00	21.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
520	21.80	21.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
521	21.60	21.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
522	21.40	21.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
523	21.20	21.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
524	21.00	20.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
525	20.80	20.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
526	20.60	20.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
527	20.40	20.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
528	20.20	20.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
529	20.00	19.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
530	19.80	19.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
531	19.60	19.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
532	19.40	19.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
533	19.20	19.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
534	19.00	18.80	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
535	18.80	18.60	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
536	18.60	18.40	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
537	18.40	18.20	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
538	18.20	18.00	0.3066	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
539	18.00	17.80	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
540	17.80	17.60	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
541	17.60	17.40	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
542	17.40	17.20	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
543	17.20	17.00	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008

544	17.00	16.80	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
545	16.80	16.60	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
546	16.60	16.40	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
547	16.40	16.20	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
548	16.20	16.00	0.7820	0.008	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.008
579	16.00	15.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
580	15.80	15.60	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
581	15.60	15.40	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
582	15.40	15.20	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
583	15.20	15.00	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
584	15.00	14.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
585	14.80	14.60	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
586	14.60	14.40	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
587	14.40	14.20	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
588	14.20	14.00	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
589	14.00	13.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
590	13.80	13.60	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
591	13.60	13.40	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
592	13.40	13.20	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
593	13.20	13.00	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
594	13.00	12.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
595	12.80	12.60	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
596	12.60	12.40	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
597	12.40	12.20	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
598	12.20	12.00	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
599	12.00	11.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
600	11.80	11.60	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
601	11.60	11.40	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
602	11.40	11.20	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
603	11.20	11.00	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
604	11.00	10.80	1.0890	0.005	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.005
605	10.80	10.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
606	10.60	10.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
607	10.40	10.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
608	10.20	10.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
609	10.00	9.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
610	9.80	9.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
611	9.60	9.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
612	9.40	9.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
613	9.20	9.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
614	9.00	8.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
615	8.80	8.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
616	8.60	8.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
617	8.40	8.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
618	8.20	8.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
619	8.00	7.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
620	7.80	7.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
621	7.60	7.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
622	7.40	7.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
623	7.20	7.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
624	7.00	6.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004

625	6.80	6.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
626	6.60	6.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
627	6.40	6.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
628	6.20	6.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
629	6.00	5.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
630	5.80	5.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
631	5.60	5.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
632	5.40	5.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
633	5.20	5.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
634	5.00	4.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
635	4.80	4.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
636	4.60	4.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
637	4.40	4.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
638	4.20	4.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
639	4.00	3.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
640	3.80	3.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
641	3.60	3.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
642	3.40	3.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
643	3.20	3.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
644	3.00	2.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
645	2.80	2.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
646	2.60	2.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
647	2.40	2.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
648	2.20	2.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
649	2.00	1.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
650	1.80	1.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
651	1.60	1.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
652	1.40	1.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
653	1.20	1.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
654	1.00	0.80	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
655	0.80	0.60	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
656	0.60	0.40	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
657	0.40	0.20	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004
658	0.20	0.00	1.0890	0.004	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.004

SPECIAL REPORT: Praire
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m^3/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	PRISM m^3	TIDAL VELO m/s	TIDAL m^2/s	DISPRSN VELO m/s	MEAN
549	6.00	5.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
550	5.80	5.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
551	5.60	5.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
552	5.40	5.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
553	5.20	5.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
554	5.00	4.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
555	4.80	4.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	
556	4.60	4.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003	

557	4.40	4.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
558	4.20	4.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
559	4.00	3.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
560	3.80	3.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
561	3.60	3.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
562	3.40	3.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
563	3.20	3.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
564	3.00	2.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
565	2.80	2.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
566	2.60	2.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
567	2.40	2.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
568	2.20	2.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
569	2.00	1.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
570	1.80	1.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
571	1.60	1.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
572	1.40	1.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
573	1.20	1.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
574	1.00	0.80	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
575	0.80	0.60	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
576	0.60	0.40	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
577	0.40	0.20	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003
578	0.20	0.00	0.3070	0.003	10.00	10.0	20000.	2000.0	100.0	0.	0.000	0.000	0.003

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 1 Black Lake Bayou Calibration for FTN intensive survey conditions (9/7/2005)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
1	HDWTR	0.08300	23.40	0.00	0.00	0.00	4.20	2.56	0.00	2.56	0.00	1.38	0.22	0.00	0.00	76.00	0.00	0.00
EACH	INCR	0.00053	25.00	0.00	0.00	0.00	4.18	2.00	0.00		2.00	0.20	0.05	0.00	0.00	0.00		
1	WSTLD	0.08300	23.30	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	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 m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN	MEAN VELO m/s
1	125.60	125.40	0.16653	49.8	0.02194	0.11	0.85	8.95	1518.32	1790.33	7.59	0.00	0.000	0.000	0.022		
2	125.40	125.20	0.16707	49.7	0.02197	0.11	0.85	8.96	1521.10	1791.02	7.61	0.00	0.000	0.000	0.022		
3	125.20	125.00	0.16760	49.5	0.02200	0.11	0.85	8.96	1523.87	1791.71	7.62	0.00	0.000	0.000	0.022		
4	125.00	124.80	0.16814	49.4	0.02203	0.11	0.85	8.96	1526.63	1792.39	7.63	0.00	0.000	0.000	0.022		
5	124.80	124.60	0.16867	49.2	0.02206	0.10	0.85	8.97	1529.40	1793.07	7.65	0.00	0.000	0.000	0.022		
6	124.60	124.40	0.16921	49.1	0.02209	0.10	0.85	8.97	1532.16	1793.75	7.66	0.00	0.000	0.000	0.022		
7	124.40	124.20	0.16974	48.9	0.02212	0.10	0.86	8.97	1534.91	1794.43	7.67	0.00	0.000	0.000	0.022		

8	124.20	124.00	0.17027	48.7	0.02215	0.10	0.86	8.98	1537.66	1795.11	7.69	0.00	0.000	0.000	0.022
9	124.00	123.80	0.17081	48.6	0.02218	0.10	0.86	8.98	1540.41	1795.78	7.70	0.00	0.000	0.000	0.022
10	123.80	123.60	0.17134	48.4	0.02221	0.10	0.86	8.98	1543.16	1796.46	7.72	0.00	0.000	0.000	0.022
11	123.60	123.40	0.17188	48.3	0.02224	0.10	0.86	8.99	1545.90	1797.13	7.73	0.00	0.000	0.000	0.022
12	123.40	123.20	0.17241	48.1	0.02227	0.10	0.86	8.99	1548.64	1797.80	7.74	0.00	0.000	0.000	0.022
13	123.20	123.00	0.17295	48.0	0.02230	0.10	0.86	8.99	1551.37	1798.47	7.76	0.00	0.000	0.000	0.022
14	123.00	122.80	0.17348	47.8	0.02233	0.10	0.86	9.00	1554.10	1799.13	7.77	0.00	0.000	0.000	0.022
15	122.80	122.60	0.17401	47.7	0.02236	0.10	0.87	9.00	1556.83	1799.80	7.78	0.00	0.000	0.000	0.022
16	122.60	122.40	0.17455	47.6	0.02238	0.10	0.87	9.00	1559.55	1800.46	7.80	0.00	0.000	0.000	0.022
17	122.40	122.20	0.17508	47.4	0.02241	0.10	0.87	9.01	1562.27	1801.12	7.81	0.00	0.000	0.000	0.022
18	122.20	122.00	0.17562	47.3	0.02244	0.10	0.87	9.01	1564.98	1801.78	7.82	0.00	0.000	0.000	0.022
19	122.00	121.80	0.17615	47.1	0.02247	0.10	0.87	9.01	1567.70	1802.43	7.84	0.00	0.000	0.000	0.022
20	121.80	121.60	0.17669	47.0	0.02250	0.10	0.87	9.02	1570.40	1803.09	7.85	0.00	0.000	0.000	0.023
21	121.60	121.40	0.17722	46.8	0.02253	0.10	0.87	9.02	1573.11	1803.74	7.87	0.00	0.000	0.000	0.023
22	121.40	121.20	0.17775	46.7	0.02256	0.10	0.87	9.02	1575.81	1804.39	7.88	0.00	0.000	0.000	0.023
23	121.20	121.00	0.17829	46.6	0.02259	0.10	0.87	9.03	1578.51	1805.04	7.89	0.00	0.000	0.000	0.023
24	121.00	120.80	0.17882	46.4	0.02262	0.10	0.88	9.03	1581.20	1805.69	7.91	0.00	0.000	0.000	0.023
25	120.80	120.60	0.17936	46.3	0.02265	0.10	0.88	9.03	1583.89	1806.34	7.92	0.00	0.000	0.000	0.023
26	120.60	120.40	0.17989	46.1	0.02268	0.10	0.88	9.03	1586.58	1806.98	7.93	0.00	0.000	0.000	0.023
27	120.40	120.20	0.18043	46.0	0.02271	0.10	0.88	9.04	1589.27	1807.63	7.95	0.00	0.000	0.000	0.023
28	120.20	120.00	0.18096	45.9	0.02273	0.10	0.88	9.04	1591.95	1808.27	7.96	0.00	0.000	0.000	0.023
29	120.00	119.80	0.18149	45.7	0.02276	0.10	0.88	9.04	1594.62	1808.91	7.97	0.00	0.000	0.000	0.023
30	119.80	119.60	0.18203	45.6	0.02279	0.10	0.88	9.05	1597.30	1809.55	7.99	0.00	0.000	0.000	0.023
31	119.60	119.40	0.18256	45.5	0.02282	0.10	0.88	9.05	1599.97	1810.18	8.00	0.00	0.000	0.000	0.023
32	119.40	119.20	0.18310	45.3	0.02285	0.10	0.89	9.05	1602.64	1810.82	8.01	0.00	0.000	0.000	0.023
33	119.20	119.00	0.18363	45.2	0.02288	0.10	0.89	9.06	1605.30	1811.45	8.03	0.00	0.000	0.000	0.023
34	119.00	118.80	0.18417	45.1	0.02291	0.10	0.89	9.06	1607.96	1812.08	8.04	0.00	0.000	0.000	0.023
35	118.80	118.60	0.18470	44.9	0.02294	0.10	0.89	9.06	1610.62	1812.71	8.05	0.00	0.000	0.000	0.023
36	118.60	118.40	0.18523	44.8	0.02296	0.10	0.89	9.07	1613.27	1813.34	8.07	0.00	0.000	0.000	0.023
37	118.40	118.20	0.18577	44.7	0.02299	0.10	0.89	9.07	1615.92	1813.97	8.08	0.00	0.000	0.000	0.023
38	118.20	118.00	0.18630	44.6	0.02302	0.10	0.89	9.07	1618.57	1814.59	8.09	0.00	0.000	0.000	0.023
39	118.00	117.80	0.18684	44.4	0.02305	0.10	0.89	9.08	1621.21	1815.22	8.11	0.00	0.000	0.000	0.023
40	117.80	117.60	0.18737	44.3	0.02308	0.10	0.89	9.08	1623.85	1815.84	8.12	0.00	0.000	0.000	0.023
41	117.60	117.40	0.18791	44.2	0.02311	0.10	0.90	9.08	1626.49	1816.46	8.13	0.00	0.000	0.000	0.023
42	117.40	117.20	0.18844	44.0	0.02313	0.10	0.90	9.09	1629.13	1817.08	8.15	0.00	0.000	0.000	0.023
43	117.20	117.00	0.18897	43.9	0.02316	0.10	0.90	9.09	1631.76	1817.70	8.16	0.00	0.000	0.000	0.023
44	117.00	116.80	0.18951	43.8	0.02319	0.10	0.90	9.09	1634.39	1818.31	8.17	0.00	0.000	0.000	0.023
45	116.80	116.60	0.19004	43.7	0.02322	0.10	0.90	9.09	1637.01	1818.93	8.19	0.00	0.000	0.000	0.023
46	116.60	116.40	0.19058	43.6	0.02325	0.10	0.90	9.10	1639.63	1819.54	8.20	0.00	0.000	0.000	0.023
47	116.40	116.20	0.19111	43.4	0.02327	0.10	0.90	9.10	1642.25	1820.15	8.21	0.00	0.000	0.000	0.023
48	116.20	116.00	0.19165	43.3	0.02330	0.10	0.90	9.10	1644.87	1820.76	8.22	0.00	0.000	0.000	0.023
49	116.00	115.80	0.19218	43.2	0.02333	0.10	0.90	9.11	1647.48	1821.37	8.24	0.00	0.000	0.000	0.023
50	115.80	115.60	0.19271	43.1	0.02336	0.10	0.91	9.11	1650.09	1821.98	8.25	0.00	0.000	0.000	0.023
51	115.60	115.40	0.19325	42.9	0.02339	0.10	0.91	9.11	1652.69	1822.58	8.26	0.00	0.000	0.000	0.023
52	115.40	115.20	0.19378	42.8	0.02341	0.10	0.91	9.12	1655.30	1823.19	8.28	0.00	0.000	0.000	0.023
53	115.20	115.00	0.19432	42.7	0.02344	0.10	0.91	9.12	1657.90	1823.79	8.29	0.00	0.000	0.000	0.023
54	115.00	114.80	0.19485	42.6	0.02347	0.10	0.91	9.12	1660.49	1824.39	8.30	0.00	0.000	0.000	0.023
55	114.80	114.60	0.19539	42.5	0.02350	0.10	0.91	9.12	1663.09	1824.99	8.32	0.00	0.000	0.000	0.023
56	114.60	114.40	0.19592	42.4	0.02352	0.10	0.91	9.13	1665.68	1825.59	8.33	0.00	0.000	0.000	0.024
57	114.40	114.20	0.19645	42.2	0.02355	0.10	0.91	9.13	1668.27	1826.18	8.34	0.00	0.000	0.000	0.024
58	114.20	114.00	0.19699	42.1	0.02358	0.10	0.91	9.13	1670.85	1826.78	8.35	0.00	0.000	0.000	0.024

59	114.00	113.80	0.19752	42.0	0.02361	0.10	0.92	9.14	1673.43	1827.37	8.37	0.00	0.000	0.000	0.024
60	113.80	113.60	0.19806	41.9	0.02363	0.10	0.92	9.14	1676.01	1827.96	8.38	0.00	0.000	0.000	0.024
61	113.60	113.40	0.19859	41.8	0.02366	0.10	0.92	9.14	1678.59	1828.56	8.39	0.00	0.000	0.000	0.024
62	113.40	113.20	0.19913	41.7	0.02369	0.10	0.92	9.15	1681.16	1829.15	8.41	0.00	0.000	0.000	0.024
63	113.20	113.00	0.19966	41.6	0.02372	0.10	0.92	9.15	1683.73	1829.73	8.42	0.00	0.000	0.000	0.024
64	113.00	112.80	0.20019	41.5	0.02374	0.10	0.92	9.15	1686.30	1830.32	8.43	0.00	0.000	0.000	0.024
65	112.80	112.60	0.20073	41.3	0.02377	0.10	0.92	9.15	1688.86	1830.91	8.44	0.00	0.000	0.000	0.024
66	112.60	112.40	0.20126	41.2	0.02380	0.10	0.92	9.16	1691.42	1831.49	8.46	0.00	0.000	0.000	0.024
67	112.40	112.20	0.20180	41.1	0.02383	0.10	0.92	9.16	1693.98	1832.07	8.47	0.00	0.000	0.000	0.024
68	112.20	112.00	0.20233	41.0	0.02385	0.10	0.93	9.16	1696.53	1832.65	8.48	0.00	0.000	0.000	0.024
69	112.00	111.80	0.20287	40.9	0.02388	0.10	0.93	9.17	1699.09	1833.23	8.50	0.00	0.000	0.000	0.024
70	111.80	111.60	0.20340	40.8	0.02391	0.10	0.93	9.17	1701.63	1833.81	8.51	0.00	0.000	0.000	0.024

TOT			7.07		112788.96	126889.01	
AVG		0.0229		0.89	9.06		8.06
CUM			7.07				

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da
1	125.400	8.51	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
2	125.200	8.51	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.12	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
3	125.000	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.13	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
4	124.800	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
5	124.600	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
6	124.400	8.50	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.13	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
7	124.200	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
8	124.000	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
9	123.800	8.49	1.23	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.13	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
10	123.600	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.13	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
11	123.400	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.13	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
12	123.200	8.48	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
13	123.000	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
14	122.800	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.13	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
15	122.600	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.13	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
16	122.400	8.47	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.13	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
17	122.200	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.13	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
18	122.000	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.13	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
19	121.800	8.46	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.14	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	121.600	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
21	121.400	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
22	121.200	8.45	1.22	0.07	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.14	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
23	121.000	8.45	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.14	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
24	120.800	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.14	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
25	120.600	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
26	120.400	8.44	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
27	120.200	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.14	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00

28	120.000	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.14	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
29	119.800	8.43	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.14	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
30	119.600	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
31	119.400	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
32	119.200	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.14	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
33	119.000	8.42	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.14	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
34	118.800	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.14	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
35	118.600	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
36	118.400	8.41	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
37	118.200	8.40	1.21	0.07	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.14	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
38	118.000	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.14	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
39	117.800	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.14	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
40	117.600	8.40	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
41	117.400	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
42	117.200	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.14	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
43	117.000	8.39	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
44	116.800	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
45	116.600	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.14	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
46	116.400	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.14	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
47	116.200	8.38	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.14	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
48	116.000	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
49	115.800	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
50	115.600	8.37	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.14	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
51	115.400	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.14	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
52	115.200	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.14	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
53	115.000	8.36	1.20	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
54	114.800	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
55	114.600	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.14	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	114.400	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.14	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	114.200	8.35	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.14	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
58	114.000	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
59	113.800	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
60	113.600	8.34	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.14	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
61	113.400	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.14	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
62	113.200	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.14	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
63	113.000	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.14	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
64	112.800	8.33	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.14	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
65	112.600	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
66	112.400	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
67	112.200	8.32	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.14	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
68	112.000	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.14	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
69	111.800	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
70	111.600	8.31	1.19	0.07	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.12	0.06	0.00	0.00	0.00	0.00	0.00	2.60			0.02	0.00	0.11	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
1	125.400	23.42	0.00	0.00	0.00	4.50	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.62	0.00	75.20	0.00	0.	0.00
2	125.200	23.44	0.00	0.00	0.00	4.76	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	74.40	0.00	0.	0.00
3	125.000	23.46	0.00	0.00	0.00	4.99	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	73.60	0.00	0.	0.00
4	124.800	23.47	0.00	0.00	0.00	5.19	2.58	0.00	2.58	0.00	1.39	0.22	0.00	1.61	0.00	72.80	0.00	0.	0.00
5	124.600	23.49	0.00	0.00	0.00	5.37	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	72.00	0.00	0.	0.00
6	124.400	23.51	0.00	0.00	0.00	5.52	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	71.20	0.00	0.	0.00
7	124.200	23.53	0.00	0.00	0.00	5.65	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	70.40	0.00	0.	0.00
8	124.000	23.55	0.00	0.00	0.00	5.76	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	69.60	0.00	0.	0.00
9	123.800	23.57	0.00	0.00	0.00	5.86	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	68.80	0.00	0.	0.00
10	123.600	23.59	0.00	0.00	0.00	5.94	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	68.00	0.00	0.	0.00
11	123.400	23.60	0.00	0.00	0.00	6.02	2.57	0.00	2.57	0.00	1.39	0.22	0.00	1.61	0.00	67.20	0.00	0.	0.00
12	123.200	23.62	0.00	0.00	0.00	6.08	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	66.40	0.00	0.	0.00
13	123.000	23.64	0.00	0.00	0.00	6.13	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	65.60	0.00	0.	0.00
14	122.800	23.66	0.00	0.00	0.00	6.17	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	64.80	0.00	0.	0.00
15	122.600	23.68	0.00	0.00	0.00	6.21	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	64.00	0.00	0.	0.00
16	122.400	23.70	0.00	0.00	0.00	6.24	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	63.20	0.00	0.	0.00
17	122.200	23.72	0.00	0.00	0.00	6.26	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	62.40	0.00	0.	0.00
18	122.000	23.73	0.00	0.00	0.00	6.28	2.56	0.00	2.56	0.00	1.39	0.22	0.00	1.61	0.00	61.60	0.00	0.	0.00
19	121.800	23.75	0.00	0.00	0.00	6.29	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	60.80	0.00	0.	0.00
20	121.600	23.77	0.00	0.00	0.00	6.30	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	60.00	0.00	0.	0.00
21	121.400	23.79	0.00	0.00	0.00	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	59.20	0.00	0.	0.00
22	121.200	23.81	0.00	0.00	0.00	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	58.40	0.00	0.	0.00
23	121.000	23.83	0.00	0.00	0.00	6.31	2.55	0.00	2.55	0.00	1.39	0.22	0.00	1.62	0.00	57.60	0.00	0.	0.00
24	120.800	23.85	0.00	0.00	0.00	6.31	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.62	0.00	56.80	0.00	0.	0.00
25	120.600	23.86	0.00	0.00	0.00	6.31	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	56.00	0.00	0.	0.00
26	120.400	23.88	0.00	0.00	0.00	6.30	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	55.20	0.00	0.	0.00
27	120.200	23.90	0.00	0.00	0.00	6.30	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	54.40	0.00	0.	0.00
28	120.000	23.92	0.00	0.00	0.00	6.29	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	53.60	0.00	0.	0.00
29	119.800	23.94	0.00	0.00	0.00	6.28	2.54	0.00	2.54	0.00	1.40	0.22	0.00	1.62	0.00	52.80	0.00	0.	0.00
30	119.600	23.96	0.00	0.00	0.00	6.27	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	52.00	0.00	0.	0.00
31	119.400	23.98	0.00	0.00	0.00	6.26	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	51.20	0.00	0.	0.00
32	119.200	23.99	0.00	0.00	0.00	6.24	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	50.40	0.00	0.	0.00
33	119.000	24.01	0.00	0.00	0.00	6.23	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	49.60	0.00	0.	0.00
34	118.800	24.03	0.00	0.00	0.00	6.21	2.53	0.00	2.53	0.00	1.40	0.22	0.00	1.62	0.00	48.80	0.00	0.	0.00
35	118.600	24.05	0.00	0.00	0.00	6.20	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	48.00	0.00	0.	0.00
36	118.400	24.07	0.00	0.00	0.00	6.18	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	47.20	0.00	0.	0.00
37	118.200	24.09	0.00	0.00	0.00	6.17	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	46.40	0.00	0.	0.00
38	118.000	24.11	0.00	0.00	0.00	6.15	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	45.60	0.00	0.	0.00
39	117.800	24.12	0.00	0.00	0.00	6.13	2.52	0.00	2.52	0.00	1.40	0.22	0.00	1.62	0.00	44.80	0.00	0.	0.00
40	117.600	24.14	0.00	0.00	0.00	6.12	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	44.00	0.00	0.	0.00
41	117.400	24.16	0.00	0.00	0.00	6.10	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	43.20	0.00	0.	0.00
42	117.200	24.18	0.00	0.00	0.00	6.08	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	42.40	0.00	0.	0.00
43	117.000	24.20	0.00	0.00	0.00	6.06	2.51	0.00	2.51	0.00	1.40	0.22	0.00	1.62	0.00	41.60	0.00	0.	0.00
44	116.800	24.22	0.00	0.00	0.00	6.04	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.62	0.00	40.80	0.00	0.	0.00
45	116.600	24.24	0.00	0.00	0.00	6.02	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.62	0.00	40.00	0.00	0.	0.00
46	116.400	24.25	0.00	0.00	0.00	6.00	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	39.20	0.00	0.	0.00
47	116.200	24.27	0.00	0.00	0.00	5.98	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	38.40	0.00	0.	0.00
48	116.000	24.29	0.00	0.00	0.00	5.96	2.50	0.00	2.50	0.00	1.40	0.22	0.00	1.61	0.00	37.60	0.00	0.	0.00

49	115.800	24.31	0.00	0.00	0.00	5.94	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	36.80	0.00	0.	0.00
50	115.600	24.33	0.00	0.00	0.00	5.92	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	36.00	0.00	0.	0.00
51	115.400	24.35	0.00	0.00	0.00	5.90	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	35.20	0.00	0.	0.00
52	115.200	24.37	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.40	0.22	0.00	1.61	0.00	34.40	0.00	0.	0.00
53	115.000	24.38	0.00	0.00	0.00	5.86	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	33.60	0.00	0.	0.00
54	114.800	24.40	0.00	0.00	0.00	5.84	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	32.80	0.00	0.	0.00
55	114.600	24.42	0.00	0.00	0.00	5.82	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	32.00	0.00	0.	0.00
56	114.400	24.44	0.00	0.00	0.00	5.80	2.48	0.00	2.48	0.00	1.40	0.22	0.00	1.61	0.00	31.20	0.00	0.	0.00
57	114.200	24.46	0.00	0.00	0.00	5.78	2.47	0.00	2.47	0.00	1.40	0.22	0.00	1.61	0.00	30.40	0.00	0.	0.00
58	114.000	24.48	0.00	0.00	0.00	5.76	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	29.60	0.00	0.	0.00
59	113.800	24.50	0.00	0.00	0.00	5.74	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	28.80	0.00	0.	0.00
60	113.600	24.51	0.00	0.00	0.00	5.72	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	28.00	0.00	0.	0.00
61	113.400	24.53	0.00	0.00	0.00	5.70	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	27.20	0.00	0.	0.00
62	113.200	24.55	0.00	0.00	0.00	5.68	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	26.40	0.00	0.	0.00
63	113.000	24.57	0.00	0.00	0.00	5.66	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	25.60	0.00	0.	0.00
64	112.800	24.59	0.00	0.00	0.00	5.63	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	24.80	0.00	0.	0.00
65	112.600	24.61	0.00	0.00	0.00	5.61	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	24.00	0.00	0.	0.00
66	112.400	24.63	0.00	0.00	0.00	5.59	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	23.20	0.00	0.	0.00
67	112.200	24.64	0.00	0.00	0.00	5.57	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	22.40	0.00	0.	0.00
68	112.000	24.66	0.00	0.00	0.00	5.55	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	21.60	0.00	0.	0.00
69	111.800	24.68	0.00	0.00	0.00	5.53	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.80	0.00	0.	0.00
70	111.600	24.70	0.00	0.00	0.00	5.51	2.44	0.00	2.44	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 2 Black Lake Bayou Calibration for FTN intensive survey conditions (9/7/2005)

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3 #/100mL	NO3+2	PHOS	CHL A	COLI	NCM
71	UPR RCH	0.20340	24.70	0.00	0.00	0.00	5.51	2.44	0.00	2.44	0.00	1.39	0.22	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00053	25.00	0.00	0.00	0.00	4.18	2.00	0.00		2.00	0.20	0.05	0.00	0.00	0.00		
119	WSTLD	0.03500	29.70	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	0.00	0.00
142	WSTLD	0.02400	24.70	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	0.00	0.00
231	WSTLD	0.02700	24.70	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	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	AREA m²	VOLUME m³	SURFACE AREA m²	PRISM m³	X-SECT VELO m/s	TIDAL VELO m²/s	TIDAL DISPRSN m/s	MEAN
71	111.60	111.40	0.20393	40.7	0.02809	0.08	0.74	9.83	1451.99	1966.60	7.26	0.00	0.000	0.000	0.028		
72	111.40	111.20	0.20447	40.6	0.02812	0.08	0.74	9.84	1454.15	1967.22	7.27	0.00	0.000	0.000	0.028		
73	111.20	111.00	0.20500	40.5	0.02815	0.08	0.74	9.84	1456.31	1967.83	7.28	0.00	0.000	0.000	0.028		
74	111.00	110.80	0.20554	40.4	0.02818	0.08	0.74	9.84	1458.48	1968.45	7.29	0.00	0.000	0.000	0.028		
75	110.80	110.60	0.20607	40.3	0.02822	0.08	0.74	9.85	1460.63	1969.06	7.30	0.00	0.000	0.000	0.028		

76	110.60	110.40	0.20660	40.2	0.02825	0.08	0.74	9.85	1462.79	1969.67	7.31	0.00	0.000	0.000	0.028
77	110.40	110.20	0.20714	40.1	0.02828	0.08	0.74	9.85	1464.94	1970.28	7.32	0.00	0.000	0.000	0.028
78	110.20	110.00	0.20767	40.0	0.02831	0.08	0.74	9.85	1467.09	1970.89	7.34	0.00	0.000	0.000	0.028
79	110.00	109.80	0.20820	39.9	0.02834	0.08	0.75	9.86	1469.24	1971.50	7.35	0.00	0.000	0.000	0.028
80	109.80	109.60	0.20874	39.8	0.02837	0.08	0.75	9.86	1471.39	1972.10	7.36	0.00	0.000	0.000	0.028
81	109.60	109.40	0.20927	39.7	0.02840	0.08	0.75	9.86	1473.53	1972.71	7.37	0.00	0.000	0.000	0.028
82	109.40	109.20	0.20981	39.6	0.02844	0.08	0.75	9.87	1475.68	1973.31	7.38	0.00	0.000	0.000	0.028
83	109.20	109.00	0.21034	39.5	0.02847	0.08	0.75	9.87	1477.82	1973.91	7.39	0.00	0.000	0.000	0.028
84	109.00	108.80	0.21087	39.4	0.02850	0.08	0.75	9.87	1479.95	1974.51	7.40	0.00	0.000	0.000	0.028
85	108.80	108.60	0.21141	39.3	0.02853	0.08	0.75	9.88	1482.09	1975.11	7.41	0.00	0.000	0.000	0.029
86	108.60	108.40	0.21194	39.2	0.02856	0.08	0.75	9.88	1484.22	1975.71	7.42	0.00	0.000	0.000	0.029
87	108.40	108.20	0.21248	39.1	0.02859	0.08	0.75	9.88	1486.35	1976.31	7.43	0.00	0.000	0.000	0.029
88	108.20	108.00	0.21301	39.0	0.02862	0.08	0.75	9.88	1488.48	1976.90	7.44	0.00	0.000	0.000	0.029
89	108.00	107.80	0.21354	38.9	0.02865	0.08	0.75	9.89	1490.60	1977.50	7.45	0.00	0.000	0.000	0.029
90	107.80	107.60	0.21408	38.8	0.02868	0.08	0.75	9.89	1492.73	1978.09	7.46	0.00	0.000	0.000	0.029
91	107.60	107.40	0.21461	38.7	0.02871	0.08	0.76	9.89	1494.85	1978.68	7.47	0.00	0.000	0.000	0.029
92	107.40	107.20	0.21515	38.6	0.02874	0.08	0.76	9.90	1496.97	1979.27	7.48	0.00	0.000	0.000	0.029
93	107.20	107.00	0.21568	38.5	0.02877	0.08	0.76	9.90	1499.08	1979.86	7.50	0.00	0.000	0.000	0.029
94	107.00	106.80	0.21621	38.4	0.02881	0.08	0.76	9.90	1501.20	1980.45	7.51	0.00	0.000	0.000	0.029
95	106.80	106.60	0.21675	38.3	0.02884	0.08	0.76	9.91	1503.31	1981.03	7.52	0.00	0.000	0.000	0.029
96	106.60	106.40	0.21728	38.2	0.02887	0.08	0.76	9.91	1505.42	1981.62	7.53	0.00	0.000	0.000	0.029
97	106.40	106.20	0.21782	38.1	0.02890	0.08	0.76	9.91	1507.53	1982.20	7.54	0.00	0.000	0.000	0.029
98	106.20	106.00	0.21835	38.0	0.02893	0.08	0.76	9.91	1509.63	1982.78	7.55	0.00	0.000	0.000	0.029
99	106.00	105.80	0.21888	37.9	0.02896	0.08	0.76	9.92	1511.73	1983.36	7.56	0.00	0.000	0.000	0.029
100	105.80	105.60	0.21942	37.8	0.02899	0.08	0.76	9.92	1513.83	1983.94	7.57	0.00	0.000	0.000	0.029
101	105.60	105.40	0.21995	37.7	0.02902	0.08	0.76	9.92	1515.93	1984.52	7.58	0.00	0.000	0.000	0.029
102	105.40	105.20	0.22049	37.6	0.02905	0.08	0.76	9.93	1518.03	1985.10	7.59	0.00	0.000	0.000	0.029
103	105.20	105.00	0.22102	37.6	0.02908	0.08	0.77	9.93	1520.12	1985.68	7.60	0.00	0.000	0.000	0.029
104	105.00	104.80	0.22155	37.5	0.02911	0.08	0.77	9.93	1522.22	1986.25	7.61	0.00	0.000	0.000	0.029
105	104.80	104.60	0.22209	37.4	0.02914	0.08	0.77	9.93	1524.31	1986.83	7.62	0.00	0.000	0.000	0.029
106	104.60	104.40	0.22262	37.3	0.02917	0.08	0.77	9.94	1526.39	1987.40	7.63	0.00	0.000	0.000	0.029
107	104.40	104.20	0.22315	37.2	0.02920	0.08	0.77	9.94	1528.48	1987.97	7.64	0.00	0.000	0.000	0.029
108	104.20	104.00	0.22369	37.1	0.02923	0.08	0.77	9.94	1530.56	1988.54	7.65	0.00	0.000	0.000	0.029
109	104.00	103.80	0.22422	37.0	0.02926	0.08	0.77	9.95	1532.64	1989.11	7.66	0.00	0.000	0.000	0.029
110	103.80	103.60	0.22476	36.9	0.02929	0.08	0.77	9.95	1534.72	1989.68	7.67	0.00	0.000	0.000	0.029
111	103.60	103.40	0.22529	36.8	0.02932	0.08	0.77	9.95	1536.80	1990.24	7.68	0.00	0.000	0.000	0.029
112	103.40	103.20	0.22582	36.8	0.02935	0.08	0.77	9.95	1538.88	1990.81	7.69	0.00	0.000	0.000	0.029
113	103.20	103.00	0.22636	36.7	0.02938	0.08	0.77	9.96	1540.95	1991.37	7.70	0.00	0.000	0.000	0.029
114	103.00	102.80	0.22689	36.6	0.02941	0.08	0.77	9.96	1543.02	1991.94	7.72	0.00	0.000	0.000	0.029
115	102.80	102.60	0.22743	36.5	0.02944	0.08	0.78	9.96	1545.09	1992.50	7.73	0.00	0.000	0.000	0.029
116	102.60	102.40	0.22796	36.4	0.02947	0.08	0.78	9.97	1547.15	1993.06	7.74	0.00	0.000	0.000	0.029
117	102.40	102.20	0.22849	36.3	0.02950	0.08	0.78	9.97	1549.22	1993.62	7.75	0.00	0.000	0.000	0.029
118	102.20	102.00	0.22903	36.2	0.02953	0.08	0.78	9.97	1551.28	1994.18	7.76	0.00	0.000	0.000	0.030
119	102.00	101.80	0.26456	44.6	0.03142	0.07	0.83	10.14	1684.20	2028.99	8.42	0.00	0.000	0.000	0.031
120	101.80	101.60	0.26510	44.5	0.03144	0.07	0.83	10.15	1686.14	2029.48	8.43	0.00	0.000	0.000	0.031
121	101.60	101.40	0.26563	44.4	0.03147	0.07	0.83	10.15	1688.07	2029.97	8.44	0.00	0.000	0.000	0.031
122	101.40	101.20	0.26616	44.3	0.03150	0.07	0.83	10.15	1690.01	2030.46	8.45	0.00	0.000	0.000	0.031
123	101.20	101.00	0.26670	44.2	0.03153	0.07	0.83	10.15	1691.94	2030.95	8.46	0.00	0.000	0.000	0.032
124	101.00	100.80	0.26723	44.2	0.03155	0.07	0.83	10.16	1693.87	2031.44	8.47	0.00	0.000	0.000	0.032
125	100.80	100.60	0.26777	44.1	0.03158	0.07	0.83	10.16	1695.80	2031.92	8.48	0.00	0.000	0.000	0.032
126	100.60	100.40	0.26830	44.0	0.03161	0.07	0.84	10.16	1697.72	2032.41	8.49	0.00	0.000	0.000	0.032

127	100.40	100.20	0.26883	43.9	0.03163	0.07	0.84	10.16	1699.65	2032.89	8.50	0.00	0.000	0.000	0.032
128	100.20	100.00	0.26937	43.8	0.03166	0.07	0.84	10.17	1701.57	2033.38	8.51	0.00	0.000	0.000	0.032
129	100.00	99.80	0.26990	43.7	0.03169	0.07	0.84	10.17	1703.49	2033.86	8.52	0.00	0.000	0.000	0.032
130	99.80	99.60	0.27043	43.6	0.03171	0.07	0.84	10.17	1705.41	2034.34	8.53	0.00	0.000	0.000	0.032
131	99.60	99.40	0.27097	43.5	0.03174	0.07	0.84	10.17	1707.33	2034.83	8.54	0.00	0.000	0.000	0.032
132	99.40	99.20	0.27150	43.5	0.03177	0.07	0.84	10.18	1709.25	2035.31	8.55	0.00	0.000	0.000	0.032
133	99.20	99.00	0.27204	43.4	0.03180	0.07	0.84	10.18	1711.16	2035.79	8.56	0.00	0.000	0.000	0.032
134	99.00	98.80	0.27257	43.3	0.03182	0.07	0.84	10.18	1713.08	2036.27	8.57	0.00	0.000	0.000	0.032
135	98.80	98.60	0.27310	43.2	0.03185	0.07	0.84	10.18	1714.99	2036.74	8.57	0.00	0.000	0.000	0.032
136	98.60	98.40	0.27364	43.1	0.03188	0.07	0.84	10.19	1716.90	2037.22	8.58	0.00	0.000	0.000	0.032
137	98.40	98.20	0.27417	43.0	0.03190	0.07	0.84	10.19	1718.81	2037.70	8.59	0.00	0.000	0.000	0.032
138	98.20	98.00	0.27471	43.0	0.03193	0.07	0.84	10.19	1720.71	2038.17	8.60	0.00	0.000	0.000	0.032
139	98.00	97.80	0.27524	42.9	0.03196	0.07	0.84	10.19	1722.62	2038.65	8.61	0.00	0.000	0.000	0.032
140	97.80	97.60	0.27577	42.8	0.03198	0.07	0.85	10.20	1724.52	2039.12	8.62	0.00	0.000	0.000	0.032
141	97.60	97.40	0.27631	42.7	0.03201	0.07	0.85	10.20	1726.43	2039.60	8.63	0.00	0.000	0.000	0.032
142	97.40	97.20	0.30084	47.2	0.03320	0.07	0.88	10.30	1812.20	2060.52	9.06	0.00	0.000	0.000	0.033
143	97.20	97.00	0.30138	47.1	0.03323	0.07	0.88	10.30	1814.03	2060.96	9.07	0.00	0.000	0.000	0.033
144	97.00	96.80	0.30191	47.0	0.03325	0.07	0.88	10.31	1815.87	2061.40	9.08	0.00	0.000	0.000	0.033
145	96.80	96.60	0.30244	47.0	0.03328	0.07	0.88	10.31	1817.70	2061.84	9.09	0.00	0.000	0.000	0.033
146	96.60	96.40	0.30298	46.9	0.03330	0.07	0.88	10.31	1819.52	2062.27	9.10	0.00	0.000	0.000	0.033
147	96.40	96.20	0.30351	46.8	0.03333	0.07	0.88	10.31	1821.35	2062.71	9.11	0.00	0.000	0.000	0.033
148	96.20	96.00	0.30405	46.7	0.03335	0.07	0.88	10.32	1823.18	2063.14	9.12	0.00	0.000	0.000	0.033
149	96.00	95.80	0.30458	46.6	0.03338	0.07	0.88	10.32	1825.00	2063.58	9.13	0.00	0.000	0.000	0.033
150	95.80	95.60	0.30511	46.5	0.03340	0.07	0.89	10.32	1826.82	2064.01	9.13	0.00	0.000	0.000	0.033
151	95.60	95.40	0.30565	46.5	0.03343	0.07	0.89	10.32	1828.65	2064.45	9.14	0.00	0.000	0.000	0.033
152	95.40	95.20	0.30618	46.4	0.03345	0.07	0.89	10.32	1830.46	2064.88	9.15	0.00	0.000	0.000	0.033
153	95.20	95.00	0.30671	46.3	0.03348	0.07	0.89	10.33	1832.28	2065.31	9.16	0.00	0.000	0.000	0.033
154	95.00	94.80	0.30725	46.2	0.03350	0.07	0.89	10.33	1834.10	2065.74	9.17	0.00	0.000	0.000	0.034
155	94.80	94.60	0.30778	46.1	0.03353	0.07	0.89	10.33	1835.92	2066.17	9.18	0.00	0.000	0.000	0.034
156	94.60	94.40	0.30832	46.1	0.03355	0.07	0.89	10.33	1837.73	2066.60	9.19	0.00	0.000	0.000	0.034
157	94.40	94.20	0.30885	46.0	0.03358	0.07	0.89	10.34	1839.54	2067.03	9.20	0.00	0.000	0.000	0.034
158	94.20	94.00	0.30938	45.9	0.03360	0.07	0.89	10.34	1841.36	2067.46	9.21	0.00	0.000	0.000	0.034
159	94.00	93.80	0.30992	45.8	0.03363	0.07	0.89	10.34	1843.17	2067.89	9.22	0.00	0.000	0.000	0.034
160	93.80	93.60	0.31045	45.7	0.03365	0.07	0.89	10.34	1844.98	2068.31	9.22	0.00	0.000	0.000	0.034
161	93.60	93.40	0.31099	45.7	0.03368	0.07	0.89	10.34	1846.78	2068.74	9.23	0.00	0.000	0.000	0.034
162	93.40	93.20	0.31152	45.6	0.03370	0.07	0.89	10.35	1848.59	2069.17	9.24	0.00	0.000	0.000	0.034
163	93.20	93.00	0.31205	45.5	0.03373	0.07	0.89	10.35	1850.40	2069.59	9.25	0.00	0.000	0.000	0.034
164	93.00	92.80	0.31259	45.4	0.03375	0.07	0.89	10.35	1852.20	2070.02	9.26	0.00	0.000	0.000	0.034
165	92.80	92.60	0.31312	45.3	0.03378	0.07	0.90	10.35	1854.00	2070.44	9.27	0.00	0.000	0.000	0.034
166	92.60	92.40	0.31366	45.3	0.03380	0.07	0.90	10.35	1855.80	2070.86	9.28	0.00	0.000	0.000	0.034
167	92.40	92.20	0.31419	45.2	0.03383	0.07	0.90	10.36	1857.60	2071.29	9.29	0.00	0.000	0.000	0.034
168	92.20	92.00	0.31472	45.1	0.03385	0.07	0.90	10.36	1859.40	2071.71	9.30	0.00	0.000	0.000	0.034
169	92.00	91.80	0.31526	45.0	0.03388	0.07	0.90	10.36	1861.20	2072.13	9.31	0.00	0.000	0.000	0.034
170	91.80	91.60	0.31579	45.0	0.03390	0.07	0.90	10.36	1863.00	2072.55	9.31	0.00	0.000	0.000	0.034
171	91.60	91.40	0.31633	44.9	0.03393	0.07	0.90	10.36	1864.79	2072.97	9.32	0.00	0.000	0.000	0.034
172	91.40	91.20	0.31686	44.8	0.03395	0.07	0.90	10.37	1866.58	2073.39	9.33	0.00	0.000	0.000	0.034
173	91.20	91.00	0.31739	44.7	0.03398	0.07	0.90	10.37	1868.38	2073.81	9.34	0.00	0.000	0.000	0.034
174	91.00	90.80	0.31793	44.7	0.03400	0.07	0.90	10.37	1870.17	2074.23	9.35	0.00	0.000	0.000	0.034
175	90.80	90.60	0.31846	44.6	0.03402	0.07	0.90	10.37	1871.96	2074.64	9.36	0.00	0.000	0.000	0.034
176	90.60	90.40	0.31899	44.5	0.03405	0.07	0.90	10.38	1873.74	2075.06	9.37	0.00	0.000	0.000	0.034
177	90.40	90.20	0.31953	44.4	0.03407	0.07	0.90	10.38	1875.53	2075.48	9.38	0.00	0.000	0.000	0.034

178	90.20	90.00	0.32006	44.4	0.03410	0.07	0.90	10.38	1877.32	2075.89	9.39	0.00	0.000	0.000	0.034
179	90.00	89.80	0.32060	44.3	0.03412	0.07	0.91	10.38	1879.10	2076.31	9.40	0.00	0.000	0.000	0.034
180	89.80	89.60	0.32113	44.2	0.03415	0.07	0.91	10.38	1880.88	2076.72	9.40	0.00	0.000	0.000	0.034
181	89.60	89.40	0.32166	44.1	0.03417	0.07	0.91	10.39	1882.67	2077.14	9.41	0.00	0.000	0.000	0.034
182	89.40	89.20	0.32220	44.1	0.03420	0.07	0.91	10.39	1884.45	2077.55	9.42	0.00	0.000	0.000	0.034
183	89.20	89.00	0.32273	44.0	0.03422	0.07	0.91	10.39	1886.23	2077.96	9.43	0.00	0.000	0.000	0.034
184	89.00	88.80	0.32327	43.9	0.03424	0.07	0.91	10.39	1888.00	2078.38	9.44	0.00	0.000	0.000	0.034
185	88.80	88.60	0.32380	43.9	0.03427	0.07	0.91	10.39	1889.78	2078.79	9.45	0.00	0.000	0.000	0.034
186	88.60	88.40	0.32433	43.8	0.03429	0.07	0.91	10.40	1891.56	2079.20	9.46	0.00	0.000	0.000	0.034
187	88.40	88.20	0.32487	43.7	0.03432	0.07	0.91	10.40	1893.33	2079.61	9.47	0.00	0.000	0.000	0.034
188	88.20	88.00	0.32540	43.6	0.03434	0.07	0.91	10.40	1895.10	2080.02	9.48	0.00	0.000	0.000	0.034
189	88.00	87.80	0.32594	43.6	0.03437	0.07	0.91	10.40	1896.88	2080.43	9.48	0.00	0.000	0.000	0.034
190	87.80	87.60	0.32647	43.5	0.03439	0.07	0.91	10.40	1898.65	2080.84	9.49	0.00	0.000	0.000	0.034
191	87.60	87.40	0.32700	43.4	0.03441	0.07	0.91	10.41	1900.42	2081.25	9.50	0.00	0.000	0.000	0.034
192	87.40	87.20	0.32754	43.4	0.03444	0.07	0.91	10.41	1902.18	2081.65	9.51	0.00	0.000	0.000	0.034
193	87.20	87.00	0.32807	43.3	0.03446	0.07	0.91	10.41	1903.95	2082.06	9.52	0.00	0.000	0.000	0.034
194	87.00	86.80	0.32861	43.2	0.03449	0.07	0.92	10.41	1905.72	2082.47	9.53	0.00	0.000	0.000	0.034
195	86.80	86.60	0.32914	43.1	0.03451	0.07	0.92	10.41	1907.48	2082.87	9.54	0.00	0.000	0.000	0.035
196	86.60	86.40	0.32967	43.1	0.03453	0.07	0.92	10.42	1909.24	2083.28	9.55	0.00	0.000	0.000	0.035
197	86.40	86.20	0.33021	43.0	0.03456	0.07	0.92	10.42	1911.01	2083.68	9.56	0.00	0.000	0.000	0.035
198	86.20	86.00	0.33074	42.9	0.03458	0.07	0.92	10.42	1912.77	2084.09	9.56	0.00	0.000	0.000	0.035
199	86.00	85.80	0.33127	42.9	0.03461	0.07	0.92	10.42	1914.53	2084.49	9.57	0.00	0.000	0.000	0.035
200	85.80	85.60	0.33181	42.8	0.03463	0.07	0.92	10.42	1916.28	2084.89	9.58	0.00	0.000	0.000	0.035
201	85.60	85.40	0.33234	42.7	0.03465	0.07	0.92	10.43	1918.04	2085.29	9.59	0.00	0.000	0.000	0.035
202	85.40	85.20	0.33288	42.7	0.03468	0.07	0.92	10.43	1919.80	2085.70	9.60	0.00	0.000	0.000	0.035
203	85.20	85.00	0.33341	42.6	0.03470	0.07	0.92	10.43	1921.55	2086.10	9.61	0.00	0.000	0.000	0.035
204	85.00	84.80	0.33394	42.5	0.03473	0.07	0.92	10.43	1923.30	2086.50	9.62	0.00	0.000	0.000	0.035
205	84.80	84.60	0.33448	42.5	0.03475	0.07	0.92	10.43	1925.06	2086.90	9.63	0.00	0.000	0.000	0.035
206	84.60	84.40	0.33501	42.4	0.03477	0.07	0.92	10.44	1926.81	2087.30	9.63	0.00	0.000	0.000	0.035
207	84.40	84.20	0.33555	42.3	0.03480	0.07	0.92	10.44	1928.56	2087.70	9.64	0.00	0.000	0.000	0.035
208	84.20	84.00	0.33608	42.3	0.03482	0.07	0.92	10.44	1930.31	2088.09	9.65	0.00	0.000	0.000	0.035
209	84.00	83.80	0.33661	42.2	0.03485	0.07	0.93	10.44	1932.05	2088.49	9.66	0.00	0.000	0.000	0.035
210	83.80	83.60	0.33715	42.1	0.03487	0.07	0.93	10.44	1933.80	2088.89	9.67	0.00	0.000	0.000	0.035
211	83.60	83.40	0.33768	42.1	0.03489	0.07	0.93	10.45	1935.54	2089.29	9.68	0.00	0.000	0.000	0.035
212	83.40	83.20	0.33822	42.0	0.03492	0.07	0.93	10.45	1937.29	2089.68	9.69	0.00	0.000	0.000	0.035
213	83.20	83.00	0.33875	41.9	0.03494	0.07	0.93	10.45	1939.03	2090.08	9.70	0.00	0.000	0.000	0.035
214	83.00	82.80	0.33928	41.9	0.03496	0.07	0.93	10.45	1940.77	2090.47	9.70	0.00	0.000	0.000	0.035
215	82.80	82.60	0.33982	41.8	0.03499	0.07	0.93	10.45	1942.51	2090.87	9.71	0.00	0.000	0.000	0.035
216	82.60	82.40	0.34035	41.7	0.03501	0.07	0.93	10.46	1944.25	2091.26	9.72	0.00	0.000	0.000	0.035
217	82.40	82.20	0.34088	41.7	0.03503	0.07	0.93	10.46	1945.99	2091.65	9.73	0.00	0.000	0.000	0.035
218	82.20	82.00	0.34142	41.6	0.03506	0.07	0.93	10.46	1947.73	2092.05	9.74	0.00	0.000	0.000	0.035
219	82.00	81.80	0.34195	41.5	0.03508	0.07	0.93	10.46	1949.46	2092.44	9.75	0.00	0.000	0.000	0.035
220	81.80	81.60	0.34249	41.5	0.03511	0.07	0.93	10.46	1951.20	2092.83	9.76	0.00	0.000	0.000	0.035
221	81.60	81.40	0.34302	41.4	0.03513	0.07	0.93	10.47	1952.93	2093.22	9.76	0.00	0.000	0.000	0.035
222	81.40	81.20	0.34355	41.3	0.03515	0.07	0.93	10.47	1954.66	2093.61	9.77	0.00	0.000	0.000	0.035
223	81.20	81.00	0.34409	41.3	0.03518	0.07	0.93	10.47	1956.39	2094.00	9.78	0.00	0.000	0.000	0.035
224	81.00	80.80	0.34462	41.2	0.03520	0.07	0.93	10.47	1958.12	2094.39	9.79	0.00	0.000	0.000	0.035
225	80.80	80.60	0.34516	41.1	0.03522	0.07	0.94	10.47	1959.85	2094.78	9.80	0.00	0.000	0.000	0.035
226	80.60	80.40	0.34569	41.1	0.03525	0.07	0.94	10.48	1961.58	2095.17	9.81	0.00	0.000	0.000	0.035
227	80.40	80.20	0.34622	41.0	0.03527	0.07	0.94	10.48	1963.30	2095.56	9.82	0.00	0.000	0.000	0.035
228	80.20	80.00	0.34676	41.0	0.03529	0.07	0.94	10.48	1965.03	2095.95	9.83	0.00	0.000	0.000	0.035

229	80.00	79.80	0.34729	40.9	0.03532	0.07	0.94	10.48	1966.75	2096.33	9.83	0.00	0.000	0.000	0.035
230	79.80	79.60	0.34783	40.8	0.03534	0.07	0.94	10.48	1968.48	2096.72	9.84	0.00	0.000	0.000	0.035
231	79.60	79.40	0.37536	45.0	0.03652	0.06	0.97	10.58	2055.84	2115.98	10.28	0.00	0.000	0.000	0.037
232	79.40	79.20	0.37589	45.0	0.03654	0.06	0.97	10.58	2057.51	2116.34	10.29	0.00	0.000	0.000	0.037
233	79.20	79.00	0.37643	44.9	0.03656	0.06	0.97	10.58	2059.17	2116.70	10.30	0.00	0.000	0.000	0.037
234	79.00	78.80	0.37696	44.8	0.03658	0.06	0.97	10.59	2060.83	2117.06	10.30	0.00	0.000	0.000	0.037
235	78.80	78.60	0.37750	44.8	0.03661	0.06	0.97	10.59	2062.50	2117.42	10.31	0.00	0.000	0.000	0.037
236	78.60	78.40	0.37803	44.7	0.03663	0.06	0.97	10.59	2064.16	2117.78	10.32	0.00	0.000	0.000	0.037
237	78.40	78.20	0.37856	44.6	0.03665	0.06	0.98	10.59	2065.82	2118.13	10.33	0.00	0.000	0.000	0.037
238	78.20	78.00	0.37910	44.6	0.03667	0.06	0.98	10.59	2067.48	2118.49	10.34	0.00	0.000	0.000	0.037
239	78.00	77.80	0.37963	44.5	0.03669	0.06	0.98	10.59	2069.14	2118.85	10.35	0.00	0.000	0.000	0.037
240	77.80	77.60	0.38016	44.5	0.03672	0.06	0.98	10.60	2070.80	2119.21	10.35	0.00	0.000	0.000	0.037
241	77.60	77.40	0.38070	44.4	0.03674	0.06	0.98	10.60	2072.46	2119.56	10.36	0.00	0.000	0.000	0.037

TOT			12.24		302338.91	350185.78	
AVG		0.0323		0.86	10.24		8.84
CUM			19.31				

********** 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 DECAY 1/da	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD *	FULL SOD 1/da	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY *	NH3 SRCE 1/da	DENIT RATE **	PO4 SRCE **	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY	NCM SETT
71	111.400	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
72	111.200	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
73	111.000	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
74	110.800	8.31	1.58	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
75	110.600	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
76	110.400	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
77	110.200	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
78	110.000	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
79	109.800	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
80	109.600	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
81	109.400	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
82	109.200	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
83	109.000	8.31	1.57	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
84	108.800	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
85	108.600	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
86	108.400	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
87	108.200	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
88	108.000	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
89	107.800	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
90	107.600	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
91	107.400	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
92	107.200	8.31	1.56	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
93	107.000	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
94	106.800	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
95	106.600	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
96	106.400	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

97	106.200	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
98	106.000	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
99	105.800	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
100	105.600	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
101	105.400	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
102	105.200	8.30	1.55	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
103	105.000	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
104	104.800	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
105	104.600	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
106	104.400	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
107	104.200	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
108	104.000	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
109	103.800	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
110	103.600	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
111	103.400	8.30	1.54	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
112	103.200	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
113	103.000	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
114	102.800	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
115	102.600	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
116	102.400	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
117	102.200	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
118	102.000	8.30	1.53	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
119	101.800	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
120	101.600	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
121	101.400	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
122	101.200	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
123	101.000	8.30	1.47	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
124	100.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
125	100.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
126	100.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
127	100.200	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
128	100.000	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
129	99.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
130	99.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
131	99.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
132	99.200	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
133	99.000	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
134	98.800	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
135	98.600	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
136	98.400	8.30	1.46	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
137	98.200	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
138	98.000	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
139	97.800	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
140	97.600	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
141	97.400	8.30	1.45	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
142	97.200	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
143	97.000	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
144	96.800	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
145	96.600	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
146	96.400	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
147	96.200	8.30	1.42	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

148	96.000	8.30	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
149	95.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
150	95.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
151	95.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
152	95.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
153	95.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
154	94.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
155	94.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
156	94.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
157	94.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
158	94.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
159	93.800	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
160	93.600	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
161	93.400	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
162	93.200	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
163	93.000	8.29	1.41	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
164	92.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
165	92.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
166	92.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
167	92.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
168	92.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
169	91.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
170	91.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
171	91.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
172	91.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
173	91.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
174	90.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
175	90.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
176	90.400	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
177	90.200	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
178	90.000	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
179	89.800	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
180	89.600	8.29	1.40	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
181	89.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
182	89.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
183	89.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
184	88.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
185	88.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
186	88.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
187	88.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
188	88.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
189	87.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
190	87.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
191	87.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
192	87.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
193	87.000	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
194	86.800	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
195	86.600	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
196	86.400	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
197	86.200	8.29	1.39	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
198	86.000	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

199	85.800	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
200	85.600	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
201	85.400	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
202	85.200	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
203	85.000	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
204	84.800	8.29	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
205	84.600	8.28	1.38	0.07	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
206	84.400	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
207	84.200	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
208	84.000	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
209	83.800	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
210	83.600	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
211	83.400	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
212	83.200	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
213	83.000	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
214	82.800	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
215	82.600	8.28	1.38	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
216	82.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
217	82.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
218	82.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
219	81.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
220	81.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
221	81.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
222	81.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
223	81.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
224	80.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
225	80.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
226	80.400	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
227	80.200	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
228	80.000	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
229	79.800	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
230	79.600	8.28	1.37	0.08	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
231	79.400	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
232	79.200	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
233	79.000	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
234	78.800	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
235	78.601	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
236	78.401	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
237	78.201	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
238	78.001	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
239	77.801	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
240	77.601	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
241	77.401	8.28	1.34	0.08	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.32	0.06	0.00	0.00	0.00	0.00	0.00	2.40			0.02	0.00	0.11	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
71	111.400	24.70	0.00	0.00	0.00	5.53	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
72	111.200	24.70	0.00	0.00	0.00	5.54	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
73	111.000	24.70	0.00	0.00	0.00	5.56	2.45	0.00	2.45	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
74	110.800	24.70	0.00	0.00	0.00	5.57	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
75	110.600	24.71	0.00	0.00	0.00	5.58	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
76	110.400	24.71	0.00	0.00	0.00	5.59	2.46	0.00	2.46	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
77	110.200	24.71	0.00	0.00	0.00	5.60	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
78	110.000	24.71	0.00	0.00	0.00	5.61	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
79	109.800	24.71	0.00	0.00	0.00	5.62	2.47	0.00	2.47	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
80	109.600	24.71	0.00	0.00	0.00	5.63	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
81	109.400	24.71	0.00	0.00	0.00	5.63	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
82	109.200	24.71	0.00	0.00	0.00	5.64	2.48	0.00	2.48	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
83	109.000	24.72	0.00	0.00	0.00	5.64	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
84	108.800	24.72	0.00	0.00	0.00	5.65	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
85	108.600	24.72	0.00	0.00	0.00	5.65	2.49	0.00	2.49	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
86	108.400	24.72	0.00	0.00	0.00	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
87	108.200	24.72	0.00	0.00	0.00	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
88	108.000	24.72	0.00	0.00	0.00	5.66	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
89	107.800	24.72	0.00	0.00	0.00	5.67	2.50	0.00	2.50	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
90	107.600	24.72	0.00	0.00	0.00	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.61	0.00	20.00	0.00	0.	0.00
91	107.400	24.72	0.00	0.00	0.00	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
92	107.200	24.73	0.00	0.00	0.00	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
93	107.000	24.73	0.00	0.00	0.00	5.67	2.51	0.00	2.51	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
94	106.800	24.73	0.00	0.00	0.00	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
95	106.600	24.73	0.00	0.00	0.00	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
96	106.400	24.73	0.00	0.00	0.00	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
97	106.200	24.73	0.00	0.00	0.00	5.68	2.52	0.00	2.52	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
98	106.000	24.73	0.00	0.00	0.00	5.68	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
99	105.800	24.73	0.00	0.00	0.00	5.68	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
100	105.600	24.74	0.00	0.00	0.00	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
101	105.400	24.74	0.00	0.00	0.00	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
102	105.200	24.74	0.00	0.00	0.00	5.69	2.53	0.00	2.53	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
103	105.000	24.74	0.00	0.00	0.00	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
104	104.800	24.74	0.00	0.00	0.00	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
105	104.600	24.74	0.00	0.00	0.00	5.69	2.54	0.00	2.54	0.00	1.39	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
106	104.400	24.74	0.00	0.00	0.00	5.69	2.54	0.00	2.54	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
107	104.200	24.74	0.00	0.00	0.00	5.69	2.54	0.00	2.54	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
108	104.000	24.74	0.00	0.00	0.00	5.69	2.55	0.00	2.55	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
109	103.800	24.75	0.00	0.00	0.00	5.70	2.55	0.00	2.55	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
110	103.600	24.75	0.00	0.00	0.00	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
111	103.400	24.75	0.00	0.00	0.00	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
112	103.200	24.75	0.00	0.00	0.00	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
113	103.000	24.75	0.00	0.00	0.00	5.70	2.55	0.00	2.55	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
114	102.800	24.75	0.00	0.00	0.00	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
115	102.600	24.75	0.00	0.00	0.00	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
116	102.400	24.75	0.00	0.00	0.00	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
117	102.200	24.75	0.00	0.00	0.00	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
118	102.000	24.76	0.00	0.00	0.00	5.70	2.56	0.00	2.56	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00

119	101.800	24.76	0.00	0.00	0.00	5.53	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
120	101.600	24.76	0.00	0.00	0.00	5.56	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
121	101.400	24.76	0.00	0.00	0.00	5.58	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
122	101.200	24.76	0.00	0.00	0.00	5.60	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
123	101.000	24.76	0.00	0.00	0.00	5.62	2.57	0.00	2.57	0.00	1.38	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
124	100.800	24.76	0.00	0.00	0.00	5.63	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
125	100.600	24.76	0.00	0.00	0.00	5.65	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
126	100.400	24.77	0.00	0.00	0.00	5.66	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
127	100.200	24.77	0.00	0.00	0.00	5.68	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
128	100.000	24.77	0.00	0.00	0.00	5.69	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
129	99.800	24.77	0.00	0.00	0.00	5.70	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
130	99.600	24.77	0.00	0.00	0.00	5.71	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
131	99.400	24.77	0.00	0.00	0.00	5.71	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
132	99.200	24.77	0.00	0.00	0.00	5.72	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
133	99.000	24.77	0.00	0.00	0.00	5.73	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
134	98.800	24.77	0.00	0.00	0.00	5.74	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
135	98.600	24.78	0.00	0.00	0.00	5.74	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
136	98.400	24.78	0.00	0.00	0.00	5.75	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
137	98.200	24.78	0.00	0.00	0.00	5.75	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
138	98.000	24.78	0.00	0.00	0.00	5.76	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
139	97.800	24.78	0.00	0.00	0.00	5.76	2.57	0.00	2.57	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
140	97.600	24.78	0.00	0.00	0.00	5.76	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
141	97.400	24.78	0.00	0.00	0.00	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
142	97.200	24.78	0.00	0.00	0.00	5.66	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
143	97.000	24.79	0.00	0.00	0.00	5.68	2.57	0.00	2.57	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
144	96.800	24.79	0.00	0.00	0.00	5.69	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
145	96.600	24.79	0.00	0.00	0.00	5.71	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
146	96.400	24.79	0.00	0.00	0.00	5.72	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
147	96.200	24.79	0.00	0.00	0.00	5.73	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
148	96.000	24.79	0.00	0.00	0.00	5.74	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
149	95.800	24.79	0.00	0.00	0.00	5.75	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
150	95.600	24.79	0.00	0.00	0.00	5.76	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
151	95.400	24.79	0.00	0.00	0.00	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
152	95.200	24.80	0.00	0.00	0.00	5.77	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
153	95.000	24.80	0.00	0.00	0.00	5.78	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
154	94.800	24.80	0.00	0.00	0.00	5.79	2.56	0.00	2.56	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
155	94.600	24.80	0.00	0.00	0.00	5.79	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
156	94.400	24.80	0.00	0.00	0.00	5.80	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
157	94.200	24.80	0.00	0.00	0.00	5.80	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
158	94.000	24.80	0.00	0.00	0.00	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
159	93.800	24.80	0.00	0.00	0.00	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
160	93.600	24.81	0.00	0.00	0.00	5.81	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
161	93.400	24.81	0.00	0.00	0.00	5.82	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
162	93.200	24.81	0.00	0.00	0.00	5.82	2.55	0.00	2.55	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
163	93.000	24.81	0.00	0.00	0.00	5.82	2.55	0.00	2.55	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
164	92.800	24.81	0.00	0.00	0.00	5.83	2.55	0.00	2.55	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
165	92.600	24.81	0.00	0.00	0.00	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
166	92.400	24.81	0.00	0.00	0.00	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
167	92.200	24.81	0.00	0.00	0.00	5.83	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
168	92.000	24.81	0.00	0.00	0.00	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
169	91.800	24.82	0.00	0.00	0.00	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00

170	91.600	24.82	0.00	0.00	0.00	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
171	91.400	24.82	0.00	0.00	0.00	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
172	91.200	24.82	0.00	0.00	0.00	5.84	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
173	91.000	24.82	0.00	0.00	0.00	5.85	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
174	90.800	24.82	0.00	0.00	0.00	5.85	2.54	0.00	2.54	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
175	90.600	24.82	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
176	90.400	24.82	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
177	90.200	24.83	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
178	90.000	24.83	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
179	89.800	24.83	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
180	89.600	24.83	0.00	0.00	0.00	5.85	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
181	89.400	24.83	0.00	0.00	0.00	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
182	89.200	24.83	0.00	0.00	0.00	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
183	89.000	24.83	0.00	0.00	0.00	5.86	2.53	0.00	2.53	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
184	88.800	24.83	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
185	88.600	24.83	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
186	88.400	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
187	88.200	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
188	88.000	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
189	87.800	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
190	87.600	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
191	87.400	24.84	0.00	0.00	0.00	5.86	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
192	87.200	24.84	0.00	0.00	0.00	5.87	2.52	0.00	2.52	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
193	87.000	24.84	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
194	86.800	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
195	86.600	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
196	86.400	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
197	86.200	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
198	86.000	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
199	85.800	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
200	85.600	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
201	85.400	24.85	0.00	0.00	0.00	5.87	2.51	0.00	2.51	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
202	85.200	24.85	0.00	0.00	0.00	5.87	2.50	0.00	2.50	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
203	85.000	24.86	0.00	0.00	0.00	5.87	2.50	0.00	2.50	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
204	84.800	24.86	0.00	0.00	0.00	5.87	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
205	84.600	24.86	0.00	0.00	0.00	5.87	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
206	84.400	24.86	0.00	0.00	0.00	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
207	84.200	24.86	0.00	0.00	0.00	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
208	84.000	24.86	0.00	0.00	0.00	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
209	83.800	24.86	0.00	0.00	0.00	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
210	83.600	24.86	0.00	0.00	0.00	5.88	2.50	0.00	2.50	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
211	83.400	24.86	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
212	83.200	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
213	83.000	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
214	82.800	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
215	82.600	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
216	82.400	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
217	82.200	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
218	82.000	24.87	0.00	0.00	0.00	5.88	2.49	0.00	2.49	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
219	81.800	24.87	0.00	0.00	0.00	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
220	81.600	24.88	0.00	0.00	0.00	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00

221	81.400	24.88	0.00	0.00	0.00	5.88	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
222	81.200	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
223	81.000	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
224	80.800	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
225	80.600	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
226	80.400	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
227	80.200	24.88	0.00	0.00	0.00	5.89	2.48	0.00	2.48	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
228	80.000	24.88	0.00	0.00	0.00	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
229	79.800	24.89	0.00	0.00	0.00	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
230	79.600	24.89	0.00	0.00	0.00	5.89	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
231	79.400	24.89	0.00	0.00	0.00	5.78	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
232	79.200	24.89	0.00	0.00	0.00	5.79	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
233	79.000	24.89	0.00	0.00	0.00	5.81	2.48	0.00	2.48	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
234	78.800	24.89	0.00	0.00	0.00	5.82	2.47	0.00	2.47	0.00	1.34	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
235	78.601	24.89	0.00	0.00	0.00	5.83	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
236	78.401	24.89	0.00	0.00	0.00	5.83	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
237	78.201	24.90	0.00	0.00	0.00	5.84	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
238	78.001	24.90	0.00	0.00	0.00	5.85	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
239	77.801	24.90	0.00	0.00	0.00	5.86	2.47	0.00	2.47	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
240	77.601	24.90	0.00	0.00	0.00	5.86	2.46	0.00	2.46	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
241	77.401	24.90	0.00	0.00	0.00	5.87	2.46	0.00	2.46	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 3 Black Lake Bayou Calibration for FTN intensive survey conditions (9/7/2005)

********** 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 #/100mL	COLI	NCM
242	UPR RCH	0.38070	24.90	0.00	0.00	0.00	5.87	2.46	0.00	2.46	0.00	1.33	0.21	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00053	25.00	0.00	0.00	0.00	4.18	2.00	0.00		2.00	0.20	0.05	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
242	77.40	77.20	0.38123	44.3	0.02884	0.08	1.08	12.29	2644.21	2458.40	13.22	0.00	0.000	0.000	0.029
243	77.20	77.00	0.38177	44.3	0.02885	0.08	1.08	12.29	2646.31	2458.81	13.23	0.00	0.000	0.000	0.029
244	77.00	76.80	0.38230	44.2	0.02887	0.08	1.08	12.30	2648.42	2459.22	13.24	0.00	0.000	0.000	0.029
245	76.80	76.60	0.38283	44.1	0.02889	0.08	1.08	12.30	2650.53	2459.63	13.25	0.00	0.000	0.000	0.029
246	76.60	76.40	0.38337	44.1	0.02890	0.08	1.08	12.30	2652.63	2460.04	13.26	0.00	0.000	0.000	0.029
247	76.40	76.20	0.38390	44.0	0.02892	0.08	1.08	12.30	2654.73	2460.45	13.27	0.00	0.000	0.000	0.029
248	76.20	76.00	0.38443	44.0	0.02894	0.08	1.08	12.30	2656.83	2460.86	13.28	0.00	0.000	0.000	0.029
249	76.00	75.80	0.38497	43.9	0.02896	0.08	1.08	12.31	2658.93	2461.27	13.29	0.00	0.000	0.000	0.029
250	75.80	75.60	0.38550	43.8	0.02897	0.08	1.08	12.31	2661.03	2461.68	13.31	0.00	0.000	0.000	0.029

251	75.60	75.40	0.38603	43.8	0.02899	0.08	1.08	12.31	2663.13	2462.09	13.32	0.00	0.000	0.000	0.029
252	75.40	75.20	0.38657	43.7	0.02901	0.08	1.08	12.31	2665.23	2462.50	13.33	0.00	0.000	0.000	0.029
253	75.20	75.00	0.38710	43.7	0.02903	0.08	1.08	12.31	2667.32	2462.91	13.34	0.00	0.000	0.000	0.029
254	75.00	74.80	0.38763	43.6	0.02904	0.08	1.08	12.32	2669.42	2463.31	13.35	0.00	0.000	0.000	0.029
255	74.80	74.60	0.38817	43.5	0.02906	0.08	1.08	12.32	2671.51	2463.72	13.36	0.00	0.000	0.000	0.029
256	74.60	74.40	0.38870	43.5	0.02908	0.08	1.09	12.32	2673.60	2464.12	13.37	0.00	0.000	0.000	0.029
257	74.40	74.20	0.38923	43.4	0.02909	0.08	1.09	12.32	2675.69	2464.53	13.38	0.00	0.000	0.000	0.029
258	74.20	74.00	0.38977	43.4	0.02911	0.08	1.09	12.32	2677.78	2464.94	13.39	0.00	0.000	0.000	0.029
259	74.00	73.80	0.39030	43.3	0.02913	0.08	1.09	12.33	2679.87	2465.34	13.40	0.00	0.000	0.000	0.029
260	73.80	73.60	0.39083	43.2	0.02915	0.08	1.09	12.33	2681.96	2465.74	13.41	0.00	0.000	0.000	0.029
261	73.60	73.40	0.39137	43.2	0.02916	0.08	1.09	12.33	2684.04	2466.15	13.42	0.00	0.000	0.000	0.029
262	73.40	73.20	0.39190	43.1	0.02918	0.08	1.09	12.33	2686.13	2466.55	13.43	0.00	0.000	0.000	0.029
263	73.20	73.00	0.39243	43.1	0.02920	0.08	1.09	12.33	2688.21	2466.95	13.44	0.00	0.000	0.000	0.029
264	73.00	72.80	0.39297	43.0	0.02921	0.08	1.09	12.34	2690.29	2467.35	13.45	0.00	0.000	0.000	0.029
265	72.80	72.60	0.39350	42.9	0.02923	0.08	1.09	12.34	2692.37	2467.76	13.46	0.00	0.000	0.000	0.029
266	72.60	72.40	0.39403	42.9	0.02925	0.08	1.09	12.34	2694.45	2468.16	13.47	0.00	0.000	0.000	0.029
267	72.40	72.20	0.39457	42.8	0.02926	0.08	1.09	12.34	2696.53	2468.56	13.48	0.00	0.000	0.000	0.029
268	72.20	72.00	0.39510	42.8	0.02928	0.08	1.09	12.34	2698.61	2468.96	13.49	0.00	0.000	0.000	0.029
269	72.00	71.80	0.39563	42.7	0.02930	0.08	1.09	12.35	2700.68	2469.36	13.50	0.00	0.000	0.000	0.029
270	71.80	71.60	0.39617	42.7	0.02932	0.08	1.09	12.35	2702.76	2469.76	13.51	0.00	0.000	0.000	0.029
271	71.60	71.40	0.39670	42.6	0.02933	0.08	1.10	12.35	2704.83	2470.16	13.52	0.00	0.000	0.000	0.029
272	71.40	71.20	0.39723	42.5	0.02935	0.08	1.10	12.35	2706.90	2470.55	13.53	0.00	0.000	0.000	0.029
273	71.20	71.00	0.39777	42.5	0.02937	0.08	1.10	12.35	2708.97	2470.95	13.54	0.00	0.000	0.000	0.029
274	71.00	70.80	0.39830	42.4	0.02938	0.08	1.10	12.36	2711.04	2471.35	13.56	0.00	0.000	0.000	0.029
275	70.80	70.60	0.39883	42.4	0.02940	0.08	1.10	12.36	2713.11	2471.75	13.57	0.00	0.000	0.000	0.029
276	70.60	70.40	0.39937	42.3	0.02942	0.08	1.10	12.36	2715.18	2472.14	13.58	0.00	0.000	0.000	0.029
277	70.40	70.20	0.39990	42.3	0.02943	0.08	1.10	12.36	2717.25	2472.54	13.59	0.00	0.000	0.000	0.029
278	70.20	70.00	0.40043	42.2	0.02945	0.08	1.10	12.36	2719.31	2472.93	13.60	0.00	0.000	0.000	0.029
279	70.00	69.80	0.40097	42.1	0.02947	0.08	1.10	12.37	2721.37	2473.33	13.61	0.00	0.000	0.000	0.029
280	69.80	69.60	0.40150	42.1	0.02948	0.08	1.10	12.37	2723.44	2473.72	13.62	0.00	0.000	0.000	0.029
281	69.60	69.40	0.40203	42.0	0.02950	0.08	1.10	12.37	2725.50	2474.12	13.63	0.00	0.000	0.000	0.030
282	69.40	69.20	0.40257	42.0	0.02952	0.08	1.10	12.37	2727.56	2474.51	13.64	0.00	0.000	0.000	0.030
283	69.20	69.00	0.40310	41.9	0.02954	0.08	1.10	12.37	2729.62	2474.91	13.65	0.00	0.000	0.000	0.030
284	69.00	68.80	0.40363	41.9	0.02955	0.08	1.10	12.38	2731.68	2475.30	13.66	0.00	0.000	0.000	0.030
285	68.80	68.60	0.40417	41.8	0.02957	0.08	1.10	12.38	2733.73	2475.69	13.67	0.00	0.000	0.000	0.030
286	68.60	68.40	0.40470	41.8	0.02959	0.08	1.10	12.38	2735.79	2476.08	13.68	0.00	0.000	0.000	0.030
287	68.40	68.20	0.40523	41.7	0.02960	0.08	1.11	12.38	2737.84	2476.47	13.69	0.00	0.000	0.000	0.030
288	68.20	68.00	0.40577	41.6	0.02962	0.08	1.11	12.38	2739.90	2476.86	13.70	0.00	0.000	0.000	0.030
289	68.00	67.80	0.40630	41.6	0.02964	0.08	1.11	12.39	2741.95	2477.25	13.71	0.00	0.000	0.000	0.030
290	67.80	67.60	0.40683	41.5	0.02965	0.08	1.11	12.39	2744.00	2477.64	13.72	0.00	0.000	0.000	0.030
291	67.60	67.40	0.40737	41.5	0.02967	0.08	1.11	12.39	2746.05	2478.03	13.73	0.00	0.000	0.000	0.030
292	67.40	67.20	0.40790	41.4	0.02969	0.08	1.11	12.39	2748.10	2478.42	13.74	0.00	0.000	0.000	0.030
293	67.20	67.00	0.40843	41.4	0.02970	0.08	1.11	12.39	2750.15	2478.81	13.75	0.00	0.000	0.000	0.030
294	67.00	66.80	0.40897	41.3	0.02972	0.08	1.11	12.40	2752.19	2479.20	13.76	0.00	0.000	0.000	0.030
295	66.80	66.60	0.40950	41.3	0.02974	0.08	1.11	12.40	2754.24	2479.59	13.77	0.00	0.000	0.000	0.030
296	66.60	66.40	0.41003	41.2	0.02975	0.08	1.11	12.40	2756.28	2479.97	13.78	0.00	0.000	0.000	0.030
297	66.40	66.20	0.41057	41.2	0.02977	0.08	1.11	12.40	2758.32	2480.36	13.79	0.00	0.000	0.000	0.030
298	66.20	66.00	0.41110	41.1	0.02979	0.08	1.11	12.40	2760.37	2480.75	13.80	0.00	0.000	0.000	0.030
299	66.00	65.80	0.41163	41.1	0.02980	0.08	1.11	12.41	2762.41	2481.13	13.81	0.00	0.000	0.000	0.030
300	65.80	65.60	0.41217	41.0	0.02982	0.08	1.11	12.41	2764.45	2481.52	13.82	0.00	0.000	0.000	0.030
301	65.60	65.40	0.41270	40.9	0.02984	0.08	1.11	12.41	2766.49	2481.91	13.83	0.00	0.000	0.000	0.030

302	65.40	65.20	0.41323	40.9	0.02985	0.08	1.12	12.41	2768.52	2482.29	13.84	0.00	0.000	0.000	0.030
303	65.20	65.00	0.41377	40.8	0.02987	0.08	1.12	12.41	2770.56	2482.67	13.85	0.00	0.000	0.000	0.030
304	65.00	64.80	0.41430	40.8	0.02989	0.08	1.12	12.42	2772.59	2483.06	13.86	0.00	0.000	0.000	0.030
305	64.80	64.60	0.41483	40.7	0.02990	0.08	1.12	12.42	2774.63	2483.44	13.87	0.00	0.000	0.000	0.030
306	64.60	64.40	0.41537	40.7	0.02992	0.08	1.12	12.42	2776.66	2483.82	13.88	0.00	0.000	0.000	0.030
307	64.40	64.20	0.41590	40.6	0.02993	0.08	1.12	12.42	2778.69	2484.21	13.89	0.00	0.000	0.000	0.030
308	64.20	64.00	0.41643	40.6	0.02995	0.08	1.12	12.42	2780.72	2484.59	13.90	0.00	0.000	0.000	0.030
309	64.00	63.80	0.41697	40.5	0.02997	0.08	1.12	12.42	2782.75	2484.97	13.91	0.00	0.000	0.000	0.030
310	63.80	63.60	0.41750	40.5	0.02998	0.08	1.12	12.43	2784.78	2485.35	13.92	0.00	0.000	0.000	0.030
311	63.60	63.40	0.41803	40.4	0.03000	0.08	1.12	12.43	2786.81	2485.73	13.93	0.00	0.000	0.000	0.030
312	63.40	63.20	0.41857	40.4	0.03002	0.08	1.12	12.43	2788.83	2486.11	13.94	0.00	0.000	0.000	0.030
313	63.20	63.00	0.41910	40.3	0.03003	0.08	1.12	12.43	2790.86	2486.49	13.95	0.00	0.000	0.000	0.030
314	63.00	62.80	0.41963	40.3	0.03005	0.08	1.12	12.43	2792.88	2486.87	13.96	0.00	0.000	0.000	0.030
315	62.80	62.60	0.42017	40.2	0.03007	0.08	1.12	12.44	2794.91	2487.25	13.97	0.00	0.000	0.000	0.030
316	62.60	62.40	0.42070	40.2	0.03008	0.08	1.12	12.44	2796.93	2487.63	13.98	0.00	0.000	0.000	0.030
317	62.40	62.20	0.42123	40.1	0.03010	0.08	1.12	12.44	2798.95	2488.01	13.99	0.00	0.000	0.000	0.030
318	62.20	62.00	0.42177	40.1	0.03012	0.08	1.13	12.44	2800.97	2488.39	14.00	0.00	0.000	0.000	0.030
319	62.00	61.80	0.42230	40.0	0.03013	0.08	1.13	12.44	2802.99	2488.76	14.01	0.00	0.000	0.000	0.030
320	61.80	61.60	0.42283	40.0	0.03015	0.08	1.13	12.45	2805.00	2489.14	14.03	0.00	0.000	0.000	0.030
321	61.60	61.40	0.42337	39.9	0.03016	0.08	1.13	12.45	2807.02	2489.52	14.04	0.00	0.000	0.000	0.030
322	61.40	61.20	0.42390	39.9	0.03018	0.08	1.13	12.45	2809.03	2489.89	14.05	0.00	0.000	0.000	0.030
323	61.20	61.00	0.42443	39.8	0.03020	0.08	1.13	12.45	2811.05	2490.27	14.06	0.00	0.000	0.000	0.030
324	61.00	60.80	0.42497	39.8	0.03021	0.08	1.13	12.45	2813.06	2490.64	14.07	0.00	0.000	0.000	0.030
325	60.80	60.60	0.42550	39.7	0.03023	0.08	1.13	12.46	2815.07	2491.02	14.08	0.00	0.000	0.000	0.030
326	60.60	60.40	0.42603	39.7	0.03025	0.08	1.13	12.46	2817.08	2491.39	14.09	0.00	0.000	0.000	0.030
327	60.40	60.20	0.42657	39.6	0.03026	0.08	1.13	12.46	2819.09	2491.77	14.10	0.00	0.000	0.000	0.030
328	60.20	60.00	0.42710	39.6	0.03028	0.08	1.13	12.46	2821.10	2492.14	14.11	0.00	0.000	0.000	0.030
329	60.00	59.80	0.42763	39.5	0.03030	0.08	1.13	12.46	2823.11	2492.51	14.12	0.00	0.000	0.000	0.030
330	59.80	59.60	0.42817	39.5	0.03031	0.08	1.13	12.46	2825.12	2492.89	14.13	0.00	0.000	0.000	0.030
331	59.60	59.40	0.42870	39.4	0.03033	0.08	1.13	12.47	2827.12	2493.26	14.14	0.00	0.000	0.000	0.030
332	59.40	59.20	0.42923	39.4	0.03034	0.08	1.13	12.47	2829.13	2493.63	14.15	0.00	0.000	0.000	0.030
333	59.20	59.00	0.42977	39.3	0.03036	0.08	1.14	12.47	2831.13	2494.00	14.16	0.00	0.000	0.000	0.030
334	59.00	58.80	0.43030	39.3	0.03038	0.08	1.14	12.47	2833.13	2494.37	14.17	0.00	0.000	0.000	0.030
335	58.80	58.60	0.43083	39.2	0.03039	0.08	1.14	12.47	2835.13	2494.75	14.18	0.00	0.000	0.000	0.030
336	58.60	58.40	0.43137	39.2	0.03041	0.08	1.14	12.48	2837.13	2495.12	14.19	0.00	0.000	0.000	0.030
337	58.40	58.20	0.43190	39.1	0.03042	0.08	1.14	12.48	2839.13	2495.49	14.20	0.00	0.000	0.000	0.030
338	58.20	58.00	0.43243	39.1	0.03044	0.08	1.14	12.48	2841.13	2495.85	14.21	0.00	0.000	0.000	0.030
339	58.00	57.80	0.43297	39.0	0.03046	0.08	1.14	12.48	2843.13	2496.22	14.22	0.00	0.000	0.000	0.030
340	57.80	57.60	0.43350	39.0	0.03047	0.08	1.14	12.48	2845.12	2496.59	14.23	0.00	0.000	0.000	0.030
341	57.60	57.40	0.43403	38.9	0.03049	0.08	1.14	12.48	2847.12	2496.96	14.24	0.00	0.000	0.000	0.030
342	57.40	57.20	0.43457	38.9	0.03051	0.08	1.14	12.49	2849.11	2497.33	14.25	0.00	0.000	0.000	0.031
343	57.20	57.00	0.43510	38.8	0.03052	0.08	1.14	12.49	2851.10	2497.70	14.26	0.00	0.000	0.000	0.031
344	57.00	56.80	0.43563	38.8	0.03054	0.08	1.14	12.49	2853.09	2498.06	14.27	0.00	0.000	0.000	0.031
345	56.80	56.60	0.43617	38.7	0.03055	0.08	1.14	12.49	2855.08	2498.43	14.28	0.00	0.000	0.000	0.031
346	56.60	56.40	0.43670	38.7	0.03057	0.08	1.14	12.49	2857.07	2498.80	14.29	0.00	0.000	0.000	0.031
347	56.40	56.20	0.43723	38.7	0.03059	0.08	1.14	12.50	2859.06	2499.16	14.30	0.00	0.000	0.000	0.031
348	56.20	56.00	0.43777	38.6	0.03060	0.08	1.14	12.50	2861.05	2499.53	14.31	0.00	0.000	0.000	0.031
349	56.00	55.80	0.43830	38.6	0.03062	0.08	1.15	12.50	2863.04	2499.89	14.32	0.00	0.000	0.000	0.031
350	55.80	55.60	0.43883	38.5	0.03063	0.08	1.15	12.50	2865.02	2500.26	14.33	0.00	0.000	0.000	0.031
351	55.60	55.40	0.43937	38.5	0.03065	0.08	1.15	12.50	2867.01	2500.62	14.34	0.00	0.000	0.000	0.031
352	55.40	55.20	0.43990	38.4	0.03067	0.08	1.15	12.50	2868.99	2500.99	14.34	0.00	0.000	0.000	0.031

353	55.20	55.00	0.44043	38.4	0.03068	0.08	1.15	12.51	2870.97	2501.35	14.35	0.00	0.000	0.000	0.031
354	55.00	54.80	0.44097	38.3	0.03070	0.08	1.15	12.51	2872.95	2501.71	14.36	0.00	0.000	0.000	0.031
355	54.80	54.60	0.44150	38.3	0.03071	0.08	1.15	12.51	2874.93	2502.08	14.37	0.00	0.000	0.000	0.031
356	54.60	54.40	0.44203	38.2	0.03073	0.08	1.15	12.51	2876.91	2502.44	14.38	0.00	0.000	0.000	0.031
357	54.40	54.20	0.44257	38.2	0.03075	0.08	1.15	12.51	2878.89	2502.80	14.39	0.00	0.000	0.000	0.031
358	54.20	54.00	0.44310	38.1	0.03076	0.08	1.15	12.52	2880.87	2503.16	14.40	0.00	0.000	0.000	0.031
359	54.00	53.80	0.44363	38.1	0.03078	0.08	1.15	12.52	2882.84	2503.53	14.41	0.00	0.000	0.000	0.031
360	53.80	53.60	0.44417	38.0	0.03079	0.08	1.15	12.52	2884.82	2503.89	14.42	0.00	0.000	0.000	0.031
361	53.60	53.40	0.44470	38.0	0.03081	0.08	1.15	12.52	2886.79	2504.25	14.43	0.00	0.000	0.000	0.031
362	53.40	53.20	0.44523	38.0	0.03083	0.08	1.15	12.52	2888.76	2504.61	14.44	0.00	0.000	0.000	0.031
363	53.20	53.00	0.44577	37.9	0.03084	0.08	1.15	12.52	2890.74	2504.97	14.45	0.00	0.000	0.000	0.031
364	53.00	52.80	0.44630	37.9	0.03086	0.08	1.15	12.53	2892.71	2505.33	14.46	0.00	0.000	0.000	0.031
365	52.80	52.60	0.44683	37.8	0.03087	0.07	1.16	12.53	2894.68	2505.69	14.47	0.00	0.000	0.000	0.031
366	52.60	52.40	0.44737	37.8	0.03089	0.07	1.16	12.53	2896.65	2506.04	14.48	0.00	0.000	0.000	0.031
367	52.40	52.20	0.44790	37.7	0.03090	0.07	1.16	12.53	2898.61	2506.40	14.49	0.00	0.000	0.000	0.031
368	52.20	52.00	0.44843	37.7	0.03092	0.07	1.16	12.53	2900.58	2506.76	14.50	0.00	0.000	0.000	0.031
369	52.00	51.80	0.44897	37.6	0.03094	0.07	1.16	12.54	2902.55	2507.12	14.51	0.00	0.000	0.000	0.031
370	51.80	51.60	0.44950	37.6	0.03095	0.07	1.16	12.54	2904.51	2507.48	14.52	0.00	0.000	0.000	0.031
371	51.60	51.40	0.45003	37.6	0.03097	0.07	1.16	12.54	2906.48	2507.83	14.53	0.00	0.000	0.000	0.031
372	51.40	51.20	0.45057	37.5	0.03098	0.07	1.16	12.54	2908.44	2508.19	14.54	0.00	0.000	0.000	0.031
373	51.20	51.00	0.45110	37.5	0.03100	0.07	1.16	12.54	2910.40	2508.54	14.55	0.00	0.000	0.000	0.031
374	51.00	50.80	0.45163	37.4	0.03101	0.07	1.16	12.54	2912.36	2508.90	14.56	0.00	0.000	0.000	0.031
375	50.80	50.60	0.45217	37.4	0.03103	0.07	1.16	12.55	2914.32	2509.26	14.57	0.00	0.000	0.000	0.031
376	50.60	50.40	0.45270	37.3	0.03105	0.07	1.16	12.55	2916.28	2509.61	14.58	0.00	0.000	0.000	0.031

TOT			10.44		375557.00	335426.84
AVG		0.0299		1.12	12.42	13.91
CUM			29.75			

********** 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 *	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD 1/da	FULL SOD 1/da	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY *	NH3 SRCE 1/da	DENIT RATE *	SRCE **	PO4 PROD **	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
242	77.200	8.28	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.95	3.95	3.95	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
243	77.000	8.28	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.95	3.95	3.95	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
244	76.800	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
245	76.600	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
246	76.400	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
247	76.200	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.96	3.96	3.96	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
248	76.000	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
249	75.800	8.27	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
250	75.600	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
251	75.400	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.97	3.97	3.97	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
252	75.200	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
253	75.000	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
254	74.800	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
255	74.600	8.26	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.98	3.98	3.98	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	
256	74.400	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	

257	74.200	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
258	74.000	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
259	73.800	8.25	1.10	0.08	0.00	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
260	73.600	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
261	73.400	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
262	73.200	8.25	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
263	73.000	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
264	72.800	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
265	72.600	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
266	72.400	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.01	4.01	4.01	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
267	72.200	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
268	72.000	8.24	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
269	71.800	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
270	71.600	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
271	71.400	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
272	71.200	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
273	71.000	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
274	70.800	8.23	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.03	4.03	4.03	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
275	70.600	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
276	70.400	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
277	70.200	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
278	70.000	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.04	4.04	4.04	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
279	69.800	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
280	69.600	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
281	69.400	8.22	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.05	4.05	4.05	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
282	69.200	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.02	0.00	0.14	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
283	69.000	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
284	68.800	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
285	68.600	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
286	68.400	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
287	68.200	8.21	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
288	68.000	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
289	67.800	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.07	4.07	4.07	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
290	67.600	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
291	67.400	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
292	67.200	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
293	67.000	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
294	66.800	8.20	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
295	66.600	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
296	66.400	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.09	4.09	4.09	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
297	66.200	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
298	66.000	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
299	65.800	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
300	65.600	8.19	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.10	4.10	4.10	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
301	65.400	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
302	65.200	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
303	65.000	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
304	64.800	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
305	64.600	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
306	64.400	8.18	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
307	64.200	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00

308	64.000	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.12	4.12	4.12	0.02	0.00	0.15	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
309	63.800	8.17	1.09	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
310	63.600	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
311	63.400	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.13	4.13	4.13	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
312	63.200	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
313	63.000	8.17	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
314	62.800	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
315	62.600	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.14	4.14	4.14	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
316	62.400	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
317	62.200	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
318	62.000	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
319	61.800	8.16	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.15	4.15	4.15	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
320	61.600	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
321	61.400	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
322	61.200	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.16	4.16	4.16	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
323	61.000	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
324	60.800	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
325	60.600	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
326	60.400	8.15	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
327	60.200	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
328	60.000	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
329	59.800	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
330	59.600	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.18	4.18	4.18	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
331	59.400	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
332	59.200	8.14	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
333	59.000	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.19	4.19	4.19	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
334	58.800	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
335	58.600	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
336	58.400	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
337	58.200	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.20	4.20	4.20	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
338	58.000	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
339	57.800	8.13	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
340	57.600	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
341	57.400	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.21	4.21	4.21	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
342	57.200	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
343	57.000	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
344	56.800	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.22	4.22	4.22	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
345	56.600	8.12	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
346	56.400	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
347	56.200	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
348	56.000	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
349	55.800	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
350	55.600	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
351	55.400	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.24	4.24	4.24	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
352	55.200	8.11	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
353	55.000	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
354	54.800	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
355	54.600	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.25	4.25	4.25	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
356	54.400	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
357	54.200	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
358	54.000	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00

359	53.800	8.10	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.26	4.26	4.26	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
360	53.600	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
361	53.400	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
362	53.200	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.27	4.27	4.27	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
363	53.000	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
364	52.800	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
365	52.600	8.09	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
366	52.400	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.28	4.28	4.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
367	52.200	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
368	52.000	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
369	51.800	8.08	1.08	0.08	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
370	51.600	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
371	51.400	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
372	51.200	8.08	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
373	51.000	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
374	50.800	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
375	50.600	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
376	50.400	8.07	1.07	0.08	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.90			0.02	0.00	0.11	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
242	77.200	24.91	0.00	0.00	0.00	5.81	2.45	0.00	2.45	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
243	77.000	24.92	0.00	0.00	0.00	5.76	2.45	0.00	2.45	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
244	76.800	24.93	0.00	0.00	0.00	5.71	2.44	0.00	2.44	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
245	76.600	24.94	0.00	0.00	0.00	5.66	2.43	0.00	2.43	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
246	76.400	24.95	0.00	0.00	0.00	5.62	2.42	0.00	2.42	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
247	76.200	24.96	0.00	0.00	0.00	5.58	2.41	0.00	2.41	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
248	76.000	24.97	0.00	0.00	0.00	5.55	2.40	0.00	2.40	0.00	1.35	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
249	75.800	24.98	0.00	0.00	0.00	5.51	2.39	0.00	2.39	0.00	1.36	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
250	75.600	24.99	0.00	0.00	0.00	5.48	2.39	0.00	2.39	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
251	75.400	25.00	0.00	0.00	0.00	5.46	2.38	0.00	2.38	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
252	75.200	25.01	0.00	0.00	0.00	5.43	2.37	0.00	2.37	0.00	1.36	0.21	0.00	1.57	0.00	20.00	0.00	0.	0.00
253	75.000	25.02	0.00	0.00	0.00	5.41	2.36	0.00	2.36	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
254	74.800	25.03	0.00	0.00	0.00	5.38	2.35	0.00	2.35	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
255	74.600	25.05	0.00	0.00	0.00	5.36	2.35	0.00	2.35	0.00	1.37	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
256	74.400	25.06	0.00	0.00	0.00	5.35	2.34	0.00	2.34	0.00	1.38	0.21	0.00	1.58	0.00	20.00	0.00	0.	0.00
257	74.200	25.07	0.00	0.00	0.00	5.33	2.33	0.00	2.33	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
258	74.000	25.08	0.00	0.00	0.00	5.31	2.32	0.00	2.32	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
259	73.800	25.09	0.00	0.00	0.00	5.30	2.31	0.00	2.31	0.00	1.38	0.21	0.00	1.59	0.00	20.00	0.00	0.	0.00
260	73.600	25.10	0.00	0.00	0.00	5.28	2.31	0.00	2.31	0.00	1.39	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
261	73.400	25.11	0.00	0.00	0.00	5.27	2.30	0.00	2.30	0.00	1.39	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
262	73.200	25.12	0.00	0.00	0.00	5.26	2.29	0.00	2.29	0.00	1.39	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00
263	73.000	25.13	0.00	0.00	0.00	5.25	2.28	0.00	2.28	0.00	1.40	0.21	0.00	1.60	0.00	20.00	0.00	0.	0.00

264	72.800	25.14	0.00	0.00	0.00	5.24	2.28	0.00	2.28	0.00	1.40	0.21	0.00	1.61	0.00	20.00	0.00	0.	0.00
265	72.600	25.15	0.00	0.00	0.00	5.23	2.27	0.00	2.27	0.00	1.40	0.21	0.00	1.61	0.00	20.00	0.00	0.	0.00
266	72.400	25.16	0.00	0.00	0.00	5.22	2.26	0.00	2.26	0.00	1.40	0.21	0.00	1.61	0.00	20.00	0.00	0.	0.00
267	72.200	25.17	0.00	0.00	0.00	5.21	2.25	0.00	2.25	0.00	1.41	0.21	0.00	1.62	0.00	20.00	0.00	0.	0.00
268	72.000	25.18	0.00	0.00	0.00	5.20	2.25	0.00	2.25	0.00	1.41	0.21	0.00	1.62	0.00	20.00	0.00	0.	0.00
269	71.800	25.19	0.00	0.00	0.00	5.20	2.24	0.00	2.24	0.00	1.41	0.21	0.00	1.62	0.00	20.00	0.00	0.	0.00
270	71.600	25.20	0.00	0.00	0.00	5.19	2.23	0.00	2.23	0.00	1.41	0.21	0.00	1.62	0.00	20.00	0.00	0.	0.00
271	71.400	25.21	0.00	0.00	0.00	5.18	2.22	0.00	2.22	0.00	1.42	0.21	0.00	1.63	0.00	20.00	0.00	0.	0.00
272	71.200	25.22	0.00	0.00	0.00	5.18	2.22	0.00	2.22	0.00	1.42	0.21	0.00	1.63	0.00	20.00	0.00	0.	0.00
273	71.000	25.23	0.00	0.00	0.00	5.17	2.21	0.00	2.21	0.00	1.42	0.21	0.00	1.63	0.00	20.00	0.00	0.	0.00
274	70.800	25.24	0.00	0.00	0.00	5.17	2.20	0.00	2.20	0.00	1.42	0.21	0.00	1.63	0.00	20.00	0.00	0.	0.00
275	70.600	25.25	0.00	0.00	0.00	5.16	2.20	0.00	2.20	0.00	1.43	0.21	0.00	1.64	0.00	20.00	0.00	0.	0.00
276	70.400	25.26	0.00	0.00	0.00	5.16	2.19	0.00	2.19	0.00	1.43	0.21	0.00	1.64	0.00	20.00	0.00	0.	0.00
277	70.200	25.27	0.00	0.00	0.00	5.15	2.18	0.00	2.18	0.00	1.43	0.21	0.00	1.64	0.00	20.00	0.00	0.	0.00
278	70.000	25.28	0.00	0.00	0.00	5.15	2.18	0.00	2.18	0.00	1.44	0.21	0.00	1.65	0.00	20.00	0.00	0.	0.00
279	69.800	25.29	0.00	0.00	0.00	5.14	2.17	0.00	2.17	0.00	1.44	0.21	0.00	1.65	0.00	20.00	0.00	0.	0.00
280	69.600	25.30	0.00	0.00	0.00	5.14	2.16	0.00	2.16	0.00	1.44	0.21	0.00	1.65	0.00	20.00	0.00	0.	0.00
281	69.400	25.31	0.00	0.00	0.00	5.14	2.15	0.00	2.15	0.00	1.44	0.21	0.00	1.65	0.00	20.00	0.00	0.	0.00
282	69.200	25.33	0.00	0.00	0.00	5.13	2.15	0.00	2.15	0.00	1.45	0.21	0.00	1.66	0.00	20.00	0.00	0.	0.00
283	69.000	25.34	0.00	0.00	0.00	5.13	2.14	0.00	2.14	0.00	1.45	0.21	0.00	1.66	0.00	20.00	0.00	0.	0.00
284	68.800	25.35	0.00	0.00	0.00	5.13	2.13	0.00	2.13	0.00	1.45	0.21	0.00	1.66	0.00	20.00	0.00	0.	0.00
285	68.600	25.36	0.00	0.00	0.00	5.12	2.13	0.00	2.13	0.00	1.45	0.21	0.00	1.66	0.00	20.00	0.00	0.	0.00
286	68.400	25.37	0.00	0.00	0.00	5.12	2.12	0.00	2.12	0.00	1.45	0.21	0.00	1.67	0.00	20.00	0.00	0.	0.00
287	68.200	25.38	0.00	0.00	0.00	5.12	2.12	0.00	2.12	0.00	1.46	0.21	0.00	1.67	0.00	20.00	0.00	0.	0.00
288	68.000	25.39	0.00	0.00	0.00	5.11	2.11	0.00	2.11	0.00	1.46	0.21	0.00	1.67	0.00	20.00	0.00	0.	0.00
289	67.800	25.40	0.00	0.00	0.00	5.11	2.10	0.00	2.10	0.00	1.46	0.21	0.00	1.67	0.00	20.00	0.00	0.	0.00
290	67.600	25.41	0.00	0.00	0.00	5.11	2.10	0.00	2.10	0.00	1.46	0.21	0.00	1.68	0.00	20.00	0.00	0.	0.00
291	67.400	25.42	0.00	0.00	0.00	5.11	2.09	0.00	2.09	0.00	1.47	0.21	0.00	1.68	0.00	20.00	0.00	0.	0.00
292	67.200	25.43	0.00	0.00	0.00	5.10	2.08	0.00	2.08	0.00	1.47	0.21	0.00	1.68	0.00	20.00	0.00	0.	0.00
293	67.000	25.44	0.00	0.00	0.00	5.10	2.08	0.00	2.08	0.00	1.47	0.21	0.00	1.68	0.00	20.00	0.00	0.	0.00
294	66.800	25.45	0.00	0.00	0.00	5.10	2.07	0.00	2.07	0.00	1.47	0.21	0.00	1.69	0.00	20.00	0.00	0.	0.00
295	66.600	25.46	0.00	0.00	0.00	5.10	2.06	0.00	2.06	0.00	1.48	0.21	0.00	1.69	0.00	20.00	0.00	0.	0.00
296	66.400	25.47	0.00	0.00	0.00	5.09	2.06	0.00	2.06	0.00	1.48	0.21	0.00	1.69	0.00	20.00	0.00	0.	0.00
297	66.200	25.48	0.00	0.00	0.00	5.09	2.05	0.00	2.05	0.00	1.48	0.21	0.00	1.69	0.00	20.00	0.00	0.	0.00
298	66.000	25.49	0.00	0.00	0.00	5.09	2.05	0.00	2.05	0.00	1.48	0.21	0.00	1.70	0.00	20.00	0.00	0.	0.00
299	65.800	25.50	0.00	0.00	0.00	5.09	2.04	0.00	2.04	0.00	1.49	0.21	0.00	1.70	0.00	20.00	0.00	0.	0.00
300	65.600	25.51	0.00	0.00	0.00	5.09	2.03	0.00	2.03	0.00	1.49	0.21	0.00	1.70	0.00	20.00	0.00	0.	0.00
301	65.400	25.52	0.00	0.00	0.00	5.08	2.03	0.00	2.03	0.00	1.49	0.21	0.00	1.70	0.00	20.00	0.00	0.	0.00
302	65.200	25.53	0.00	0.00	0.00	5.08	2.02	0.00	2.02	0.00	1.49	0.21	0.00	1.70	0.00	20.00	0.00	0.	0.00
303	65.000	25.54	0.00	0.00	0.00	5.08	2.02	0.00	2.02	0.00	1.49	0.21	0.00	1.71	0.00	20.00	0.00	0.	0.00
304	64.800	25.55	0.00	0.00	0.00	5.08	2.01	0.00	2.01	0.00	1.50	0.21	0.00	1.71	0.00	20.00	0.00	0.	0.00
305	64.600	25.56	0.00	0.00	0.00	5.07	2.00	0.00	2.00	0.00	1.50	0.21	0.00	1.71	0.00	20.00	0.00	0.	0.00
306	64.400	25.57	0.00	0.00	0.00	5.07	2.00	0.00	2.00	0.00	1.50	0.21	0.00	1.71	0.00	20.00	0.00	0.	0.00
307	64.200	25.58	0.00	0.00	0.00	5.07	1.99	0.00	1.99	0.00	1.50	0.21	0.00	1.72	0.00	20.00	0.00	0.	0.00
308	64.000	25.59	0.00	0.00	0.00	5.07	1.99	0.00	1.99	0.00	1.51	0.21	0.00	1.72	0.00	20.00	0.00	0.	0.00
309	63.800	25.61	0.00	0.00	0.00	5.07	1.98	0.00	1.98	0.00	1.51	0.21	0.00	1.72	0.00	20.00	0.00	0.	0.00
310	63.600	25.62	0.00	0.00	0.00	5.06	1.98	0.00	1.98	0.00	1.51	0.21	0.00	1.72	0.00	20.00	0.00	0.	0.00
311	63.400	25.63	0.00	0.00	0.00	5.06	1.97	0.00	1.97	0.00	1.51	0.21	0.00	1.73	0.00	20.00	0.00	0.	0.00
312	63.200	25.64	0.00	0.00	0.00	5.06	1.96	0.00	1.96	0.00	1.51	0.21	0.00	1.73	0.00	20.00	0.00	0.	0.00
313	63.000	25.65	0.00	0.00	0.00	5.06	1.96	0.00	1.96	0.00	1.52	0.21	0.00	1.73	0.00	20.00	0.00	0.	0.00
314	62.800	25.66	0.00	0.00	0.00	5.06	1.95	0.00	1.95	0.00	1.52	0.21	0.00	1.73	0.00	20.00	0.00	0.	0.00

315	62.600	25.67	0.00	0.00	0.00	5.05	1.95	0.00	1.95	0.00	1.52	0.22	0.00	1.73	0.00	20.00	0.00	0.	0.00
316	62.400	25.68	0.00	0.00	0.00	5.05	1.94	0.00	1.94	0.00	1.52	0.22	0.00	1.74	0.00	20.00	0.00	0.	0.00
317	62.200	25.69	0.00	0.00	0.00	5.05	1.94	0.00	1.94	0.00	1.52	0.22	0.00	1.74	0.00	20.00	0.00	0.	0.00
318	62.000	25.70	0.00	0.00	0.00	5.05	1.93	0.00	1.93	0.00	1.53	0.22	0.00	1.74	0.00	20.00	0.00	0.	0.00
319	61.800	25.71	0.00	0.00	0.00	5.05	1.93	0.00	1.93	0.00	1.53	0.22	0.00	1.74	0.00	20.00	0.00	0.	0.00
320	61.600	25.72	0.00	0.00	0.00	5.04	1.92	0.00	1.92	0.00	1.53	0.22	0.00	1.75	0.00	20.00	0.00	0.	0.00
321	61.400	25.73	0.00	0.00	0.00	5.04	1.92	0.00	1.92	0.00	1.53	0.22	0.00	1.75	0.00	20.00	0.00	0.	0.00
322	61.200	25.74	0.00	0.00	0.00	5.04	1.91	0.00	1.91	0.00	1.53	0.22	0.00	1.75	0.00	20.00	0.00	0.	0.00
323	61.000	25.75	0.00	0.00	0.00	5.04	1.91	0.00	1.91	0.00	1.54	0.22	0.00	1.75	0.00	20.00	0.00	0.	0.00
324	60.800	25.76	0.00	0.00	0.00	5.04	1.90	0.00	1.90	0.00	1.54	0.22	0.00	1.75	0.00	20.00	0.00	0.	0.00
325	60.600	25.77	0.00	0.00	0.00	5.04	1.89	0.00	1.89	0.00	1.54	0.22	0.00	1.76	0.00	20.00	0.00	0.	0.00
326	60.400	25.78	0.00	0.00	0.00	5.03	1.89	0.00	1.89	0.00	1.54	0.22	0.00	1.76	0.00	20.00	0.00	0.	0.00
327	60.200	25.79	0.00	0.00	0.00	5.03	1.88	0.00	1.88	0.00	1.54	0.22	0.00	1.76	0.00	20.00	0.00	0.	0.00
328	60.000	25.80	0.00	0.00	0.00	5.03	1.88	0.00	1.88	0.00	1.55	0.22	0.00	1.76	0.00	20.00	0.00	0.	0.00
329	59.800	25.81	0.00	0.00	0.00	5.03	1.87	0.00	1.87	0.00	1.55	0.22	0.00	1.76	0.00	20.00	0.00	0.	0.00
330	59.600	25.82	0.00	0.00	0.00	5.03	1.87	0.00	1.87	0.00	1.55	0.22	0.00	1.77	0.00	20.00	0.00	0.	0.00
331	59.400	25.83	0.00	0.00	0.00	5.02	1.86	0.00	1.86	0.00	1.55	0.22	0.00	1.77	0.00	20.00	0.00	0.	0.00
332	59.200	25.84	0.00	0.00	0.00	5.02	1.86	0.00	1.86	0.00	1.55	0.22	0.00	1.77	0.00	20.00	0.00	0.	0.00
333	59.000	25.85	0.00	0.00	0.00	5.02	1.85	0.00	1.85	0.00	1.56	0.22	0.00	1.77	0.00	20.00	0.00	0.	0.00
334	58.800	25.86	0.00	0.00	0.00	5.02	1.85	0.00	1.85	0.00	1.56	0.22	0.00	1.78	0.00	20.00	0.00	0.	0.00
335	58.600	25.87	0.00	0.00	0.00	5.02	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.00	0.00	0.	0.00
336	58.400	25.89	0.00	0.00	0.00	5.01	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.00	0.00	0.	0.00
337	58.200	25.90	0.00	0.00	0.00	5.01	1.84	0.00	1.84	0.00	1.56	0.22	0.00	1.78	0.00	20.00	0.00	0.	0.00
338	58.000	25.91	0.00	0.00	0.00	5.01	1.83	0.00	1.83	0.00	1.56	0.22	0.00	1.78	0.00	20.00	0.00	0.	0.00
339	57.800	25.92	0.00	0.00	0.00	5.01	1.83	0.00	1.83	0.00	1.57	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
340	57.600	25.93	0.00	0.00	0.00	5.01	1.82	0.00	1.82	0.00	1.57	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
341	57.400	25.94	0.00	0.00	0.00	5.00	1.82	0.00	1.82	0.00	1.57	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
342	57.200	25.95	0.00	0.00	0.00	5.00	1.81	0.00	1.81	0.00	1.57	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
343	57.000	25.96	0.00	0.00	0.00	5.00	1.81	0.00	1.81	0.00	1.57	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
344	56.800	25.97	0.00	0.00	0.00	5.00	1.80	0.00	1.80	0.00	1.58	0.22	0.00	1.79	0.00	20.00	0.00	0.	0.00
345	56.600	25.98	0.00	0.00	0.00	5.00	1.80	0.00	1.80	0.00	1.58	0.22	0.00	1.80	0.00	20.00	0.00	0.	0.00
346	56.400	25.99	0.00	0.00	0.00	5.00	1.79	0.00	1.79	0.00	1.58	0.22	0.00	1.80	0.00	20.00	0.00	0.	0.00
347	56.200	26.00	0.00	0.00	0.00	4.99	1.79	0.00	1.79	0.00	1.58	0.22	0.00	1.80	0.00	20.00	0.00	0.	0.00
348	56.000	26.01	0.00	0.00	0.00	4.99	1.78	0.00	1.78	0.00	1.58	0.22	0.00	1.80	0.00	20.00	0.00	0.	0.00
349	55.800	26.02	0.00	0.00	0.00	4.99	1.78	0.00	1.78	0.00	1.58	0.22	0.00	1.80	0.00	20.00	0.00	0.	0.00
350	55.600	26.03	0.00	0.00	0.00	4.99	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.00	0.00	0.	0.00
351	55.400	26.04	0.00	0.00	0.00	4.99	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.00	0.00	0.	0.00
352	55.200	26.05	0.00	0.00	0.00	4.98	1.77	0.00	1.77	0.00	1.59	0.22	0.00	1.81	0.00	20.00	0.00	0.	0.00
353	55.000	26.06	0.00	0.00	0.00	4.98	1.76	0.00	1.76	0.00	1.59	0.22	0.00	1.81	0.00	20.00	0.00	0.	0.00
354	54.800	26.07	0.00	0.00	0.00	4.98	1.76	0.00	1.76	0.00	1.59	0.22	0.00	1.81	0.00	20.00	0.00	0.	0.00
355	54.600	26.08	0.00	0.00	0.00	4.98	1.75	0.00	1.75	0.00	1.59	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
356	54.400	26.09	0.00	0.00	0.00	4.98	1.75	0.00	1.75	0.00	1.60	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
357	54.200	26.10	0.00	0.00	0.00	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
358	54.000	26.11	0.00	0.00	0.00	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
359	53.800	26.12	0.00	0.00	0.00	4.97	1.74	0.00	1.74	0.00	1.60	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
360	53.600	26.13	0.00	0.00	0.00	4.97	1.73	0.00	1.73	0.00	1.60	0.22	0.00	1.82	0.00	20.00	0.00	0.	0.00
361	53.400	26.14	0.00	0.00	0.00	4.97	1.73	0.00	1.73	0.00	1.60	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00
362	53.200	26.15	0.00	0.00	0.00	4.96	1.72	0.00	1.72	0.00	1.61	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00
363	53.000	26.17	0.00	0.00	0.00	4.96	1.72	0.00	1.72	0.00	1.61	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00
364	52.800	26.18	0.00	0.00	0.00	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00
365	52.600	26.19	0.00	0.00	0.00	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00

366	52.400	26.20	0.00	0.00	0.00	4.96	1.71	0.00	1.71	0.00	1.61	0.22	0.00	1.83	0.00	20.00	0.00	0.	0.00
367	52.200	26.21	0.00	0.00	0.00	4.95	1.70	0.00	1.70	0.00	1.61	0.22	0.00	1.84	0.00	20.00	0.00	0.	0.00
368	52.000	26.22	0.00	0.00	0.00	4.95	1.70	0.00	1.70	0.00	1.61	0.22	0.00	1.84	0.00	20.00	0.00	0.	0.00
369	51.800	26.23	0.00	0.00	0.00	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.00	0.00	0.	0.00
370	51.600	26.24	0.00	0.00	0.00	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.00	0.00	0.	0.00
371	51.400	26.25	0.00	0.00	0.00	4.95	1.69	0.00	1.69	0.00	1.62	0.22	0.00	1.84	0.00	20.00	0.00	0.	0.00
372	51.200	26.26	0.00	0.00	0.00	4.94	1.68	0.00	1.68	0.00	1.62	0.22	0.00	1.85	0.00	20.00	0.00	0.	0.00
373	51.000	26.27	0.00	0.00	0.00	4.94	1.68	0.00	1.68	0.00	1.62	0.22	0.00	1.85	0.00	20.00	0.00	0.	0.00
374	50.800	26.28	0.00	0.00	0.00	4.94	1.67	0.00	1.67	0.00	1.62	0.22	0.00	1.85	0.00	20.00	0.00	0.	0.00
375	50.600	26.29	0.00	0.00	0.00	4.94	1.67	0.00	1.67	0.00	1.63	0.22	0.00	1.85	0.00	20.00	0.00	0.	0.00
376	50.400	26.30	0.00	0.00	0.00	4.94	1.67	0.00	1.67	0.00	1.63	0.22	0.00	1.85	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 4 Black Lake Calibration for FTN intensive survey conditions (9/7/2005)

********** 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 #/100mL	COLI	NCM
377	UPR RCH	0.45270	26.30	0.00	0.00	0.00	4.94	1.67	0.00	1.67	0.00	1.63	0.22	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00053	25.00	0.00	0.00	0.00	4.18	2.00	0.00		2.00	0.20	0.05	0.00		0.00	0.00	
388	WSTLD	0.09200	24.40	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN m/s	MEAN VELO m/s
377	50.40	50.20	0.45323	37.3	0.00453	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
378	50.20	50.00	0.45377	37.2	0.00454	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
379	50.00	49.80	0.45430	37.2	0.00454	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
380	49.80	49.60	0.45484	37.2	0.00455	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
381	49.60	49.40	0.45537	37.1	0.00455	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
382	49.40	49.20	0.45591	37.1	0.00456	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
383	49.20	49.00	0.45644	37.0	0.00456	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
384	49.00	48.80	0.45697	37.0	0.00457	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
385	48.80	48.60	0.45751	36.9	0.00458	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
386	48.60	48.40	0.45804	36.9	0.00458	0.51	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
387	48.40	48.20	0.45858	36.9	0.00459	0.50	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.005	
388	48.20	48.00	0.55111	47.4	0.00551	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
389	48.00	47.80	0.55165	47.3	0.00552	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
390	47.80	47.60	0.55218	47.3	0.00552	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
391	47.60	47.40	0.55271	47.2	0.00553	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
392	47.40	47.20	0.55325	47.2	0.00553	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
393	47.20	47.00	0.55378	47.1	0.00554	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	
394	47.00	46.80	0.55432	47.1	0.00554	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006	

395	46.80	46.60	0.55485	47.0	0.00555	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
396	46.60	46.40	0.55538	47.0	0.00555	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
397	46.40	46.20	0.55592	46.9	0.00556	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
398	46.20	46.00	0.55645	46.9	0.00556	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
399	46.00	45.80	0.55699	46.9	0.00557	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
400	45.80	45.60	0.55752	46.8	0.00558	0.42	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
401	45.60	45.40	0.55806	46.8	0.00558	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
402	45.40	45.20	0.55859	46.7	0.00559	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
403	45.20	45.00	0.55912	46.7	0.00559	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
404	45.00	44.80	0.55966	46.6	0.00560	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
405	44.80	44.60	0.56019	46.6	0.00560	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
406	44.60	44.40	0.56073	46.5	0.00561	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
407	44.40	44.20	0.56126	46.5	0.00561	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
408	44.20	44.00	0.56180	46.5	0.00562	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
409	44.00	43.80	0.56233	46.4	0.00562	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
410	43.80	43.60	0.56286	46.4	0.00563	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
411	43.60	43.40	0.56340	46.3	0.00563	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
412	43.40	43.20	0.56393	46.3	0.00564	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
413	43.20	43.00	0.56447	46.2	0.00564	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
414	43.00	42.80	0.56500	46.2	0.00565	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
415	42.80	42.60	0.56554	46.2	0.00566	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
416	42.60	42.40	0.56607	46.1	0.00566	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
417	42.40	42.20	0.56660	46.1	0.00567	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
418	42.20	42.00	0.56714	46.0	0.00567	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
419	42.00	41.80	0.56767	46.0	0.00568	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
420	41.80	41.60	0.56821	45.9	0.00568	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
421	41.60	41.40	0.56874	45.9	0.00569	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
422	41.40	41.20	0.56927	45.8	0.00569	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
423	41.20	41.00	0.56981	45.8	0.00570	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
424	41.00	40.80	0.57034	45.8	0.00570	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
425	40.80	40.60	0.57088	45.7	0.00571	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
426	40.60	40.40	0.57141	45.7	0.00571	0.41	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
427	40.40	40.20	0.57195	45.6	0.00572	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
428	40.20	40.00	0.57248	45.6	0.00572	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
429	40.00	39.80	0.57301	45.5	0.00573	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
430	39.80	39.60	0.57355	45.5	0.00574	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
431	39.60	39.40	0.57408	45.5	0.00574	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
432	39.40	39.20	0.57462	45.4	0.00575	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
433	39.20	39.00	0.57515	45.4	0.00575	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
434	39.00	38.80	0.57569	45.3	0.00576	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
435	38.80	38.60	0.57622	45.3	0.00576	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
436	38.60	38.40	0.57675	45.3	0.00577	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
437	38.40	38.20	0.57729	45.2	0.00577	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
438	38.20	38.00	0.57782	45.2	0.00578	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
439	38.00	37.80	0.57836	45.1	0.00578	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
440	37.80	37.60	0.57889	45.1	0.00579	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
441	37.60	37.40	0.57943	45.0	0.00579	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
442	37.40	37.20	0.57996	45.0	0.00580	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
443	37.20	37.00	0.58049	45.0	0.00580	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
444	37.00	36.80	0.58103	44.9	0.00581	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
445	36.80	36.60	0.58156	44.9	0.00582	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006

446	36.60	36.40	0.58210	44.8	0.00582	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
447	36.40	36.20	0.58263	44.8	0.00583	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
448	36.20	36.00	0.58316	44.8	0.00583	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
449	36.00	35.80	0.58370	44.7	0.00584	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006

TOT				30.89		1460000.00	146000.00
AVG			0.0055		10.00	10.00	100.00
CUM				60.63			

********** 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	50.200	8.07	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.15	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
378	50.000	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
379	49.800	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
380	49.600	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
381	49.400	8.06	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
382	49.200	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
383	49.000	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
384	48.800	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
385	48.600	8.05	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
386	48.400	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
387	48.200	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
388	48.000	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
389	47.800	8.04	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
390	47.600	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
391	47.400	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
392	47.200	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
393	47.000	8.03	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
394	46.800	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
395	46.600	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
396	46.400	8.02	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
397	46.200	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
398	46.000	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
399	45.800	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
400	45.600	8.01	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
401	45.400	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
402	45.200	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
403	45.000	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
404	44.800	8.00	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
405	44.600	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
406	44.400	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
407	44.200	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
408	44.000	7.99	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
409	43.800	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
410	43.600	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
411	43.400	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00

412	43.200	7.98	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
413	43.000	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
414	42.800	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
415	42.600	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
416	42.400	7.97	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.16	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
417	42.200	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
418	42.000	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
419	41.800	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
420	41.600	7.96	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
421	41.400	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
422	41.200	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
423	41.000	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
424	40.800	7.95	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
425	40.600	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
426	40.400	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
427	40.200	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
428	40.000	7.94	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
429	39.800	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
430	39.600	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
431	39.400	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
432	39.200	7.93	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
433	39.000	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
434	38.800	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
435	38.600	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
436	38.400	7.92	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
437	38.200	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
438	38.000	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
439	37.800	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
440	37.600	7.91	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.51	3.51	3.51	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
441	37.400	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.52	3.52	3.52	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
442	37.200	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.52	3.52	3.52	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
443	37.000	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
444	36.800	7.90	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
445	36.600	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
446	36.400	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.54	3.54	3.54	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
447	36.200	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.54	3.54	3.54	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
448	36.000	7.89	0.09	0.08	0.00	0.00	0.00	0.00	0.00	3.55	3.55	3.55	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
449	35.800	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	3.55	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.08 0.06 0.00 0.00 0.00 0.00 0.00 2.20 0.02 0.00 0.11 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 #/100mL	COLI	NCM
377	50.200	26.32	0.00	0.00	0.00	5.07	1.89	0.00	1.89	0.00	1.63	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
378	50.000	26.34	0.00	0.00	0.00	5.18	2.10	0.00	2.10	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00

379	49.800	26.35	0.00	0.00	0.00	5.28	2.30	0.00	2.30	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
380	49.600	26.37	0.00	0.00	0.00	5.37	2.49	0.00	2.49	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
381	49.400	26.39	0.00	0.00	0.00	5.45	2.68	0.00	2.68	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
382	49.200	26.41	0.00	0.00	0.00	5.51	2.86	0.00	2.86	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
383	49.000	26.42	0.00	0.00	0.00	5.57	3.03	0.00	3.03	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
384	48.800	26.44	0.00	0.00	0.00	5.61	3.19	0.00	3.19	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
385	48.600	26.46	0.00	0.00	0.00	5.65	3.35	0.00	3.35	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
386	48.400	26.48	0.00	0.00	0.00	5.68	3.50	0.00	3.50	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
387	48.200	26.50	0.00	0.00	0.00	5.70	3.64	0.00	3.64	0.00	1.64	0.23	0.00	1.87	0.00	20.00	0.00	0.	0.00
388	48.000	26.51	0.00	0.00	0.00	5.48	3.59	0.00	3.59	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
389	47.800	26.53	0.00	0.00	0.00	5.50	3.71	0.00	3.71	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
390	47.600	26.55	0.00	0.00	0.00	5.52	3.82	0.00	3.82	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
391	47.400	26.57	0.00	0.00	0.00	5.54	3.93	0.00	3.93	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
392	47.200	26.58	0.00	0.00	0.00	5.55	4.03	0.00	4.03	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
393	47.000	26.60	0.00	0.00	0.00	5.55	4.13	0.00	4.13	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
394	46.800	26.62	0.00	0.00	0.00	5.56	4.23	0.00	4.23	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
395	46.600	26.64	0.00	0.00	0.00	5.56	4.32	0.00	4.32	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
396	46.400	26.66	0.00	0.00	0.00	5.55	4.41	0.00	4.41	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
397	46.200	26.67	0.00	0.00	0.00	5.55	4.50	0.00	4.50	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
398	46.000	26.69	0.00	0.00	0.00	5.54	4.59	0.00	4.59	0.00	1.61	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
399	45.800	26.71	0.00	0.00	0.00	5.53	4.67	0.00	4.67	0.00	1.61	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
400	45.600	26.73	0.00	0.00	0.00	5.51	4.75	0.00	4.75	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
401	45.400	26.75	0.00	0.00	0.00	5.50	4.82	0.00	4.82	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
402	45.200	26.76	0.00	0.00	0.00	5.48	4.89	0.00	4.89	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
403	45.000	26.78	0.00	0.00	0.00	5.46	4.96	0.00	4.96	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
404	44.800	26.80	0.00	0.00	0.00	5.44	5.03	0.00	5.03	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
405	44.600	26.82	0.00	0.00	0.00	5.42	5.10	0.00	5.10	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
406	44.400	26.83	0.00	0.00	0.00	5.39	5.16	0.00	5.16	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
407	44.200	26.85	0.00	0.00	0.00	5.37	5.22	0.00	5.22	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
408	44.000	26.87	0.00	0.00	0.00	5.34	5.28	0.00	5.28	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
409	43.800	26.89	0.00	0.00	0.00	5.31	5.33	0.00	5.33	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
410	43.600	26.91	0.00	0.00	0.00	5.29	5.39	0.00	5.39	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
411	43.400	26.92	0.00	0.00	0.00	5.26	5.44	0.00	5.44	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
412	43.200	26.94	0.00	0.00	0.00	5.23	5.49	0.00	5.49	0.00	1.62	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
413	43.000	26.96	0.00	0.00	0.00	5.20	5.54	0.00	5.54	0.00	1.62	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
414	42.800	26.98	0.00	0.00	0.00	5.17	5.58	0.00	5.58	0.00	1.62	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
415	42.600	26.99	0.00	0.00	0.00	5.14	5.63	0.00	5.63	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
416	42.400	27.01	0.00	0.00	0.00	5.10	5.67	0.00	5.67	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
417	42.200	27.03	0.00	0.00	0.00	5.07	5.71	0.00	5.71	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
418	42.000	27.05	0.00	0.00	0.00	5.04	5.75	0.00	5.75	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
419	41.800	27.07	0.00	0.00	0.00	5.01	5.79	0.00	5.79	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
420	41.600	27.08	0.00	0.00	0.00	4.97	5.82	0.00	5.82	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
421	41.400	27.10	0.00	0.00	0.00	4.94	5.86	0.00	5.86	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
422	41.200	27.12	0.00	0.00	0.00	4.91	5.89	0.00	5.89	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
423	41.000	27.14	0.00	0.00	0.00	4.88	5.92	0.00	5.92	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
424	40.800	27.15	0.00	0.00	0.00	4.84	5.96	0.00	5.96	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
425	40.600	27.17	0.00	0.00	0.00	4.81	5.99	0.00	5.99	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
426	40.400	27.19	0.00	0.00	0.00	4.78	6.01	0.00	6.01	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
427	40.200	27.21	0.00	0.00	0.00	4.75	6.04	0.00	6.04	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
428	40.000	27.23	0.00	0.00	0.00	4.71	6.07	0.00	6.07	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
429	39.800	27.24	0.00	0.00	0.00	4.68	6.09	0.00	6.09	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00

430	39.600	27.26	0.00	0.00	0.00	4.65	6.12	0.00	6.12	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
431	39.400	27.28	0.00	0.00	0.00	4.62	6.14	0.00	6.14	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
432	39.200	27.30	0.00	0.00	0.00	4.59	6.16	0.00	6.16	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
433	39.000	27.32	0.00	0.00	0.00	4.56	6.19	0.00	6.19	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
434	38.800	27.33	0.00	0.00	0.00	4.53	6.21	0.00	6.21	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
435	38.600	27.35	0.00	0.00	0.00	4.50	6.23	0.00	6.23	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
436	38.400	27.37	0.00	0.00	0.00	4.47	6.24	0.00	6.24	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
437	38.200	27.39	0.00	0.00	0.00	4.44	6.26	0.00	6.26	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
438	38.000	27.40	0.00	0.00	0.00	4.41	6.28	0.00	6.28	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
439	37.800	27.42	0.00	0.00	0.00	4.38	6.30	0.00	6.30	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
440	37.600	27.44	0.00	0.00	0.00	4.35	6.31	0.00	6.31	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
441	37.400	27.46	0.00	0.00	0.00	4.32	6.33	0.00	6.33	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
442	37.200	27.48	0.00	0.00	0.00	4.29	6.34	0.00	6.34	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
443	37.000	27.49	0.00	0.00	0.00	4.27	6.35	0.00	6.35	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
444	36.800	27.51	0.00	0.00	0.00	4.24	6.37	0.00	6.37	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
445	36.600	27.53	0.00	0.00	0.00	4.21	6.38	0.00	6.38	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
446	36.400	27.55	0.00	0.00	0.00	4.19	6.39	0.00	6.39	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
447	36.200	27.56	0.00	0.00	0.00	4.16	6.40	0.00	6.40	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
448	36.000	27.58	0.00	0.00	0.00	4.13	6.41	0.00	6.41	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
449	35.800	27.60	0.00	0.00	0.00	4.11	6.42	0.00	6.42	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 5 Clear Lake Calibration for FTN intensive survey conditions (9/7/2005)

********** 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
450	UPR RCH	0.58370	27.60	0.00	0.00	0.00	4.11	6.42	0.00	6.42	0.00	1.63	0.23	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00053	25.00	0.00	0.00	0.00	4.18	2.00	0.00		2.00	0.20	0.05	0.00	0.00	0.00		
505	WSTLD	-0.30700	29.10	0.00	0.00	0.00	3.62	7.24	0.00	7.24	0.00	1.60	0.23	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
450	35.80	35.60	0.58423	44.7	0.00584	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
451	35.60	35.40	0.58477	44.6	0.00585	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
452	35.40	35.20	0.58530	44.6	0.00585	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
453	35.20	35.00	0.58583	44.6	0.00586	0.40	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
454	35.00	34.80	0.58637	44.5	0.00586	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
455	34.80	34.60	0.58690	44.5	0.00587	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
456	34.60	34.40	0.58744	44.4	0.00587	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
457	34.40	34.20	0.58797	44.4	0.00588	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
458	34.20	34.00	0.58850	44.3	0.00589	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006

459	34.00	33.80	0.58904	44.3	0.00589	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
460	33.80	33.60	0.58957	44.3	0.00590	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
461	33.60	33.40	0.59011	44.2	0.00590	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
462	33.40	33.20	0.59064	44.2	0.00591	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
463	33.20	33.00	0.59117	44.1	0.00591	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
464	33.00	32.80	0.59171	44.1	0.00592	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
465	32.80	32.60	0.59224	44.1	0.00592	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
466	32.60	32.40	0.59278	44.0	0.00593	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
467	32.40	32.20	0.59331	44.0	0.00593	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
468	32.20	32.00	0.59384	44.0	0.00594	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
469	32.00	31.80	0.59438	43.9	0.00594	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
470	31.80	31.60	0.59491	43.9	0.00595	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
471	31.60	31.40	0.59545	43.8	0.00595	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
472	31.40	31.20	0.59598	43.8	0.00596	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
473	31.20	31.00	0.59651	43.8	0.00597	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
474	31.00	30.80	0.59705	43.7	0.00597	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
475	30.80	30.60	0.59758	43.7	0.00598	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
476	30.60	30.40	0.59812	43.6	0.00598	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
477	30.40	30.20	0.59865	43.6	0.00599	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
478	30.20	30.00	0.59918	43.6	0.00599	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
479	30.00	29.80	0.59972	43.5	0.00600	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
480	29.80	29.60	0.60025	43.5	0.00600	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
481	29.60	29.40	0.60079	43.4	0.00601	0.39	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
482	29.40	29.20	0.60132	43.4	0.00601	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
483	29.20	29.00	0.60185	43.4	0.00602	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
484	29.00	28.80	0.60239	43.3	0.00602	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
485	28.80	28.60	0.60292	43.3	0.00603	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
486	28.60	28.40	0.60345	43.3	0.00603	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
487	28.40	28.20	0.60399	43.2	0.00604	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
488	28.20	28.00	0.60452	43.2	0.00605	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
489	28.00	27.80	0.60506	43.1	0.00605	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
490	27.80	27.60	0.60559	43.1	0.00606	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
491	27.60	27.40	0.60612	43.1	0.00606	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
492	27.40	27.20	0.60666	43.0	0.00607	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
493	27.20	27.00	0.60719	43.0	0.00607	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
494	27.00	26.80	0.60773	42.9	0.00608	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
495	26.80	26.60	0.60826	42.9	0.00608	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
496	26.60	26.40	0.60879	42.9	0.00609	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
497	26.40	26.20	0.60933	42.8	0.00609	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
498	26.20	26.00	0.60986	42.8	0.00610	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
499	26.00	25.80	0.61040	42.8	0.00610	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
500	25.80	25.60	0.61093	42.7	0.00611	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
501	25.60	25.40	0.61146	42.7	0.00611	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
502	25.40	25.20	0.61200	42.6	0.00612	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
503	25.20	25.00	0.61253	42.6	0.00613	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
504	25.00	24.80	0.61307	42.6	0.00613	0.38	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.006
505	24.80	24.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003

TOT			22.03		1120000.00	112000.00
AVG		0.0059		10.00	10.00	100.00
CUM			82.66			

********** 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 *	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD 1/da	FULL SOD 1/da	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
450	35.600	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
451	35.400	7.88	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
452	35.200	7.87	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
453	35.000	7.87	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
454	34.800	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
455	34.600	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
456	34.400	7.86	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
457	34.200	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
458	34.000	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
459	33.800	7.85	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
460	33.600	7.84	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
461	33.400	7.84	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
462	33.200	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
463	33.000	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
464	32.800	7.83	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.02	0.00	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
465	32.600	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.02	0.00	0.16	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
466	32.400	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.16	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
467	32.200	7.82	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
468	32.000	7.81	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
469	31.800	7.81	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
470	31.600	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
471	31.400	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
472	31.200	7.80	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
473	31.000	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
474	30.800	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
475	30.600	7.79	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
476	30.400	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
477	30.200	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
478	30.000	7.78	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
479	29.800	7.77	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
480	29.600	7.77	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
481	29.400	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
482	29.200	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
483	29.000	7.76	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
484	28.800	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
485	28.600	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
486	28.400	7.75	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
487	28.200	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
488	28.000	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
489	27.800	7.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
490	27.600	7.73	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
491	27.400	7.73	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
492	27.200	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00

493	27.000	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
494	26.800	7.72	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
495	26.600	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
496	26.400	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
497	26.200	7.71	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
498	26.000	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
499	25.800	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
500	25.600	7.70	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.17	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
501	25.400	7.69	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
502	25.200	7.69	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
503	25.000	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
504	24.800	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
505	24.600	7.68	0.09	0.09	0.00	0.00	0.00	0.00	0.00	2.84	2.84	2.84	0.02	0.00	0.17	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.08	0.06	0.00	0.00	0.00	0.00	0.00	1.60			0.02	0.00	0.11	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
450	35.600	27.63	0.00	0.00	0.00	4.12	6.47	0.00	6.47	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
451	35.400	27.65	0.00	0.00	0.00	4.13	6.51	0.00	6.51	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
452	35.200	27.68	0.00	0.00	0.00	4.14	6.55	0.00	6.55	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
453	35.000	27.71	0.00	0.00	0.00	4.14	6.59	0.00	6.59	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
454	34.800	27.73	0.00	0.00	0.00	4.15	6.62	0.00	6.62	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
455	34.600	27.76	0.00	0.00	0.00	4.15	6.66	0.00	6.66	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
456	34.400	27.79	0.00	0.00	0.00	4.15	6.69	0.00	6.69	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
457	34.200	27.81	0.00	0.00	0.00	4.15	6.72	0.00	6.72	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
458	34.000	27.84	0.00	0.00	0.00	4.15	6.75	0.00	6.75	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
459	33.800	27.87	0.00	0.00	0.00	4.14	6.78	0.00	6.78	0.00	1.63	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
460	33.600	27.89	0.00	0.00	0.00	4.14	6.81	0.00	6.81	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
461	33.400	27.92	0.00	0.00	0.00	4.13	6.84	0.00	6.84	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
462	33.200	27.95	0.00	0.00	0.00	4.13	6.86	0.00	6.86	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
463	33.000	27.98	0.00	0.00	0.00	4.12	6.89	0.00	6.89	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
464	32.800	28.00	0.00	0.00	0.00	4.11	6.91	0.00	6.91	0.00	1.62	0.23	0.00	1.86	0.00	20.00	0.00	0.	0.00
465	32.600	28.03	0.00	0.00	0.00	4.10	6.93	0.00	6.93	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
466	32.400	28.06	0.00	0.00	0.00	4.09	6.95	0.00	6.95	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
467	32.200	28.08	0.00	0.00	0.00	4.09	6.97	0.00	6.97	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
468	32.000	28.11	0.00	0.00	0.00	4.07	6.99	0.00	6.99	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
469	31.800	28.14	0.00	0.00	0.00	4.06	7.01	0.00	7.01	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
470	31.600	28.16	0.00	0.00	0.00	4.05	7.03	0.00	7.03	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
471	31.400	28.19	0.00	0.00	0.00	4.04	7.05	0.00	7.05	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
472	31.200	28.22	0.00	0.00	0.00	4.03	7.06	0.00	7.06	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
473	31.000	28.24	0.00	0.00	0.00	4.02	7.08	0.00	7.08	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
474	30.800	28.27	0.00	0.00	0.00	4.01	7.09	0.00	7.09	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
475	30.600	28.30	0.00	0.00	0.00	3.99	7.10	0.00	7.10	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
476	30.400	28.32	0.00	0.00	0.00	3.98	7.12	0.00	7.12	0.00	1.62	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00

477	30.200	28.35	0.00	0.00	0.00	3.97	7.13	0.00	7.13	0.00	1.61	0.23	0.00	1.85	0.00	20.00	0.00	0.	0.00
478	30.000	28.38	0.00	0.00	0.00	3.95	7.14	0.00	7.14	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
479	29.800	28.40	0.00	0.00	0.00	3.94	7.15	0.00	7.15	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
480	29.600	28.43	0.00	0.00	0.00	3.93	7.16	0.00	7.16	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
481	29.400	28.46	0.00	0.00	0.00	3.92	7.17	0.00	7.17	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
482	29.200	28.48	0.00	0.00	0.00	3.90	7.18	0.00	7.18	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
483	29.000	28.51	0.00	0.00	0.00	3.89	7.18	0.00	7.18	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
484	28.800	28.54	0.00	0.00	0.00	3.88	7.19	0.00	7.19	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
485	28.600	28.56	0.00	0.00	0.00	3.86	7.20	0.00	7.20	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
486	28.400	28.59	0.00	0.00	0.00	3.85	7.20	0.00	7.20	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
487	28.200	28.62	0.00	0.00	0.00	3.84	7.21	0.00	7.21	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
488	28.000	28.64	0.00	0.00	0.00	3.82	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
489	27.800	28.67	0.00	0.00	0.00	3.81	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
490	27.600	28.70	0.00	0.00	0.00	3.80	7.22	0.00	7.22	0.00	1.61	0.23	0.00	1.84	0.00	20.00	0.00	0.	0.00
491	27.400	28.73	0.00	0.00	0.00	3.79	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
492	27.200	28.75	0.00	0.00	0.00	3.77	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
493	27.000	28.78	0.00	0.00	0.00	3.76	7.23	0.00	7.23	0.00	1.61	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
494	26.800	28.81	0.00	0.00	0.00	3.75	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
495	26.600	28.83	0.00	0.00	0.00	3.74	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
496	26.400	28.86	0.00	0.00	0.00	3.72	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
497	26.200	28.89	0.00	0.00	0.00	3.71	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
498	26.000	28.91	0.00	0.00	0.00	3.70	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
499	25.800	28.94	0.00	0.00	0.00	3.69	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
500	25.600	28.97	0.00	0.00	0.00	3.68	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
501	25.400	28.99	0.00	0.00	0.00	3.67	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
502	25.200	29.02	0.00	0.00	0.00	3.66	7.25	0.00	7.25	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
503	25.000	29.05	0.00	0.00	0.00	3.65	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.83	0.00	20.00	0.00	0.	0.00
504	24.800	29.07	0.00	0.00	0.00	3.63	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.82	0.00	20.00	0.00	0.	0.00
505	24.600	29.10	0.00	0.00	0.00	3.62	7.24	0.00	7.24	0.00	1.60	0.23	0.00	1.82	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 6 Black Lake Bayou Calibration for FTN intensive survey conditions (9/7/2005)

********** 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 #/100mL	COLI	NCM
506	UPR RCH	0.30660	29.10	0.00	0.00	0.00	3.62	7.24	0.00	7.24	0.00	1.60	0.23	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
506	24.60	24.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
507	24.40	24.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003

508	24.20	24.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
509	24.00	23.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
510	23.80	23.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
511	23.60	23.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
512	23.40	23.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
513	23.20	23.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
514	23.00	22.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
515	22.80	22.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
516	22.60	22.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
517	22.40	22.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
518	22.20	22.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
519	22.00	21.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
520	21.80	21.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
521	21.60	21.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
522	21.40	21.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
523	21.20	21.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
524	21.00	20.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
525	20.80	20.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
526	20.60	20.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
527	20.40	20.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
528	20.20	20.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
529	20.00	19.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
530	19.80	19.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
531	19.60	19.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
532	19.40	19.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
533	19.20	19.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
534	19.00	18.80	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
535	18.80	18.60	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
536	18.60	18.40	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
537	18.40	18.20	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
538	18.20	18.00	0.30660	42.5	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003

TOT			24.91		660000.00	66000.00
AVG		0.0031		10.00	10.00	100.00
CUM			107.57			

********** 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	
506	24.400	7.67	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.45	4.45	4.45	0.02	0.00	0.17	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
507	24.200	7.67	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.46	4.46	4.46	0.02	0.00	0.17	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
508	24.000	7.66	0.09	0.09	0.00	0.00	0.00	0.00	0.00	4.47	4.47	4.47	0.02	0.00	0.17	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
509	23.800	7.65	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.49	4.49	4.49	0.02	0.00	0.17	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
510	23.600	7.65	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.50	4.50	4.50	0.02	0.00	0.17	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
511	23.400	7.64	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.51	4.51	4.51	0.02	0.00	0.17	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
512	23.200	7.64	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.52	4.52	4.52	0.02	0.00	0.17	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
513	23.000	7.63	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.54	4.54	4.54	0.02	0.00	0.17	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

514	22.800	7.62	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.02	0.00	0.17	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
515	22.600	7.62	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.02	0.00	0.17	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
516	22.400	7.61	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.02	0.00	0.17	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
517	22.200	7.61	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.02	0.00	0.17	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
518	22.000	7.60	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.02	0.00	0.17	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
519	21.800	7.59	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.02	0.00	0.17	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
520	21.600	7.59	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.02	0.00	0.17	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
521	21.400	7.58	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.02	0.00	0.17	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
522	21.200	7.58	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.02	0.00	0.17	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	21.000	7.57	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.02	0.00	0.17	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
524	20.800	7.56	0.10	0.09	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.02	0.00	0.17	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
525	20.600	7.56	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.02	0.00	0.18	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
526	20.400	7.55	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.02	0.00	0.18	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
527	20.200	7.55	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.02	0.00	0.18	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
528	20.000	7.54	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.02	0.00	0.18	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
529	19.800	7.53	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.02	0.00	0.18	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
530	19.600	7.53	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.02	0.00	0.18	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
531	19.400	7.52	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.78	4.78	4.78	0.02	0.00	0.19	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
532	19.200	7.52	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.79	4.79	4.79	0.02	0.00	0.19	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
533	19.000	7.51	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.80	4.80	4.80	0.02	0.00	0.19	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
534	18.800	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.82	4.82	4.82	0.02	0.00	0.19	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
535	18.600	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.83	4.83	4.83	0.02	0.00	0.19	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
536	18.400	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.85	4.85	4.85	0.02	0.00	0.19	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
537	18.200	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.86	4.86	4.86	0.02	0.00	0.20	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
538	18.000	7.48	0.10	0.10	0.00	0.00	0.00	0.00	0.00	4.87	4.87	4.87	0.02	0.00	0.20	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.08	0.06	0.00	0.00	0.00	0.00	0.00	2.50			0.02	0.00	0.11	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
506	24.400	29.15	0.00	0.00	0.00	3.50	7.31	0.00	7.31	0.00	1.60	0.23	0.00	1.82	0.00	20.42	0.00	0.	0.00
507	24.200	29.19	0.00	0.00	0.00	3.39	7.37	0.00	7.37	0.00	1.60	0.23	0.00	1.82	0.00	20.85	0.00	0.	0.00
508	24.000	29.24	0.00	0.00	0.00	3.29	7.43	0.00	7.43	0.00	1.60	0.23	0.00	1.82	0.00	21.27	0.00	0.	0.00
509	23.800	29.28	0.00	0.00	0.00	3.20	7.48	0.00	7.48	0.00	1.60	0.23	0.00	1.82	0.00	21.70	0.00	0.	0.00
510	23.600	29.33	0.00	0.00	0.00	3.13	7.53	0.00	7.53	0.00	1.60	0.23	0.00	1.82	0.00	22.12	0.00	0.	0.00
511	23.400	29.37	0.00	0.00	0.00	3.07	7.58	0.00	7.58	0.00	1.60	0.23	0.00	1.82	0.00	22.55	0.00	0.	0.00
512	23.200	29.42	0.00	0.00	0.00	3.02	7.62	0.00	7.62	0.00	1.60	0.23	0.00	1.82	0.00	22.97	0.00	0.	0.00
513	23.000	29.46	0.00	0.00	0.00	2.98	7.65	0.00	7.65	0.00	1.59	0.23	0.00	1.82	0.00	23.39	0.00	0.	0.00
514	22.800	29.51	0.00	0.00	0.00	2.95	7.69	0.00	7.69	0.00	1.59	0.23	0.00	1.82	0.00	23.82	0.00	0.	0.00
515	22.600	29.55	0.00	0.00	0.00	2.93	7.72	0.00	7.72	0.00	1.59	0.23	0.00	1.82	0.00	24.24	0.00	0.	0.00
516	22.400	29.60	0.00	0.00	0.00	2.92	7.74	0.00	7.74	0.00	1.59	0.23	0.00	1.82	0.00	24.67	0.00	0.	0.00
517	22.200	29.65	0.00	0.00	0.00	2.91	7.77	0.00	7.77	0.00	1.59	0.23	0.00	1.82	0.00	25.09	0.00	0.	0.00
518	22.000	29.69	0.00	0.00	0.00	2.92	7.79	0.00	7.79	0.00	1.59	0.23	0.00	1.82	0.00	25.52	0.00	0.	0.00
519	21.800	29.74	0.00	0.00	0.00	2.93	7.81	0.00	7.81	0.00	1.59	0.23	0.00	1.82	0.00	25.94	0.00	0.	0.00
520	21.600	29.78	0.00	0.00	0.00	2.95	7.82	0.00	7.82	0.00	1.59	0.23	0.00	1.82	0.00	26.36	0.00	0.	0.00

521	21.400	29.83	0.00	0.00	0.00	2.98	7.84	0.00	7.84	0.00	1.59	0.23	0.00	1.82	0.00	26.79	0.00	0.	0.00
522	21.200	29.87	0.00	0.00	0.00	3.02	7.85	0.00	7.85	0.00	1.59	0.23	0.00	1.82	0.00	27.21	0.00	0.	0.00
523	21.000	29.92	0.00	0.00	0.00	3.06	7.86	0.00	7.86	0.00	1.59	0.23	0.00	1.82	0.00	27.64	0.00	0.	0.00
524	20.800	29.96	0.00	0.00	0.00	3.11	7.87	0.00	7.87	0.00	1.59	0.23	0.00	1.82	0.00	28.06	0.00	0.	0.00
525	20.600	30.01	0.00	0.00	0.00	3.16	7.88	0.00	7.88	0.00	1.59	0.23	0.00	1.81	0.00	28.48	0.00	0.	0.00
526	20.400	30.05	0.00	0.00	0.00	3.22	7.88	0.00	7.88	0.00	1.59	0.23	0.00	1.81	0.00	28.91	0.00	0.	0.00
527	20.200	30.10	0.00	0.00	0.00	3.28	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	29.33	0.00	0.	0.00
528	20.000	30.15	0.00	0.00	0.00	3.35	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	29.76	0.00	0.	0.00
529	19.800	30.19	0.00	0.00	0.00	3.43	7.89	0.00	7.89	0.00	1.59	0.22	0.00	1.81	0.00	30.18	0.00	0.	0.00
530	19.600	30.24	0.00	0.00	0.00	3.51	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.81	0.00	30.61	0.00	0.	0.00
531	19.400	30.28	0.00	0.00	0.00	3.59	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.80	0.00	31.03	0.00	0.	0.00
532	19.200	30.33	0.00	0.00	0.00	3.68	7.89	0.00	7.89	0.00	1.58	0.22	0.00	1.80	0.00	31.45	0.00	0.	0.00
533	19.000	30.37	0.00	0.00	0.00	3.77	7.88	0.00	7.88	0.00	1.58	0.22	0.00	1.80	0.00	31.88	0.00	0.	0.00
534	18.800	30.42	0.00	0.00	0.00	3.87	7.88	0.00	7.88	0.00	1.58	0.21	0.00	1.80	0.00	32.30	0.00	0.	0.00
535	18.600	30.46	0.00	0.00	0.00	3.97	7.87	0.00	7.87	0.00	1.58	0.21	0.00	1.79	0.00	32.73	0.00	0.	0.00
536	18.400	30.51	0.00	0.00	0.00	4.08	7.87	0.00	7.87	0.00	1.58	0.21	0.00	1.79	0.00	33.15	0.00	0.	0.00
537	18.200	30.55	0.00	0.00	0.00	4.19	7.86	0.00	7.86	0.00	1.58	0.21	0.00	1.79	0.00	33.58	0.00	0.	0.00
538	18.000	30.60	0.00	0.00	0.00	4.30	7.86	0.00	7.86	0.00	1.58	0.21	0.00	1.79	0.00	34.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 7 Saline Bayou Calibration for FTN intensive survey conditions (9/7/2005)

********** 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
539	UPR RCH	0.30660	30.60	0.00	0.00	0.00	4.30	7.86	0.00	7.86	0.00	1.58	0.21	0.00	0.00	34.00	0.00	0.00
539	WSTLD	0.47540	30.60	0.00	0.00	0.00	4.20	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
539	18.00	17.80	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
540	17.80	17.60	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
541	17.60	17.40	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
542	17.40	17.20	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
543	17.20	17.00	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
544	17.00	16.80	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
545	16.80	16.60	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
546	16.60	16.40	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
547	16.40	16.20	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
548	16.20	16.00	0.78200	77.5	0.00782	0.30	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.008
TOT					2.96				200000.00	20000.00					

AVG	0.0078	10.00	10.00		100.00
CUM	110.53				

********** 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 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
539	17.800	7.48	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.66	12.66	12.66	0.02	0.00	0.20	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
540	17.600	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.64	12.64	12.64	0.02	0.00	0.19	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
541	17.400	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.62	12.62	12.62	0.02	0.00	0.19	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
542	17.200	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.61	12.61	12.61	0.02	0.00	0.19	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
543	17.000	7.49	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.59	12.59	12.59	0.02	0.00	0.19	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
544	16.800	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.58	12.58	12.58	0.02	0.00	0.19	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
545	16.600	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.56	12.56	12.56	0.02	0.00	0.19	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
546	16.400	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.54	12.54	12.54	0.02	0.00	0.19	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
547	16.200	7.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.53	12.53	12.53	0.02	0.00	0.19	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
548	16.000	7.51	0.10	0.10	0.00	0.00	0.00	0.00	0.00	12.51	12.51	12.51	0.02	0.00	0.18	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.08	0.06	0.00	0.00	0.00	0.00	0.00	6.50			0.02	0.00	0.11	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	MACRO	COLI #/100mL	NCM
539	17.800	30.58	0.00	0.00	0.00	4.15	4.96	0.00	4.96	0.00	1.49	0.21	0.00	1.70	0.00	34.80	0.00	0.	0.00
540	17.600	30.56	0.00	0.00	0.00	4.06	5.25	0.00	5.25	0.00	1.51	0.21	0.00	1.72	0.00	35.60	0.00	0.	0.00
541	17.400	30.54	0.00	0.00	0.00	3.98	5.54	0.00	5.54	0.00	1.53	0.21	0.00	1.74	0.00	36.40	0.00	0.	0.00
542	17.200	30.52	0.00	0.00	0.00	3.90	5.81	0.00	5.81	0.00	1.54	0.21	0.00	1.76	0.00	37.20	0.00	0.	0.00
543	17.000	30.50	0.00	0.00	0.00	3.83	6.08	0.00	6.08	0.00	1.56	0.21	0.00	1.77	0.00	38.00	0.00	0.	0.00
544	16.800	30.48	0.00	0.00	0.00	3.76	6.35	0.00	6.35	0.00	1.58	0.21	0.00	1.79	0.00	38.80	0.00	0.	0.00
545	16.600	30.46	0.00	0.00	0.00	3.69	6.60	0.00	6.60	0.00	1.60	0.21	0.00	1.81	0.00	39.60	0.00	0.	0.00
546	16.400	30.44	0.00	0.00	0.00	3.63	6.85	0.00	6.85	0.00	1.62	0.21	0.00	1.83	0.00	40.40	0.00	0.	0.00
547	16.200	30.42	0.00	0.00	0.00	3.57	7.09	0.00	7.09	0.00	1.63	0.21	0.00	1.84	0.00	41.20	0.00	0.	0.00
548	16.000	30.40	0.00	0.00	0.00	3.51	7.32	0.00	7.32	0.00	1.65	0.21	0.00	1.86	0.00	42.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 10 Saline Bayou Calibration for FTN intensive survey conditions (9/7/2005)

********** 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

579	UPR RCH	0.78200	30.40	0.00	0.00	0.00	3.51	7.32	0.00	7.32	0.00	1.65	0.21	0.00	0.00	42.00	0.00	0.00
579	TRIB	0.30700	30.40	0.00	0.00	0.00	2.04	19.12	0.00	19.12	0.00	1.65	0.21	0.00	0.00	42.00	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	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN	MEAN VELO m/s
579	16.00	15.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
580	15.80	15.60	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
581	15.60	15.40	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
582	15.40	15.20	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
583	15.20	15.00	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
584	15.00	14.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
585	14.80	14.60	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
586	14.60	14.40	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
587	14.40	14.20	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
588	14.20	14.00	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
589	14.00	13.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
590	13.80	13.60	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
591	13.60	13.40	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
592	13.40	13.20	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
593	13.20	13.00	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
594	13.00	12.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
595	12.80	12.60	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
596	12.60	12.40	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
597	12.40	12.20	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
598	12.20	12.00	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
599	12.00	11.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
600	11.80	11.60	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
601	11.60	11.40	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
602	11.40	11.20	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
603	11.20	11.00	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
604	11.00	10.80	1.08900	55.6	0.00471	0.49	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.005	
TOT					12.77				1201508.38	262912.00						
AVG					0.0047		4.57	50.56			231.06					
CUM					123.30											

********** 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	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	SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM DECAY	NCM SETT
579	15.800	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00		
580	15.600	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00		

581	15.400	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.02	0.00	0.18	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
582	15.200	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
583	15.000	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
584	14.800	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.02	0.00	0.17	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
585	14.600	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
586	14.400	7.51	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
587	14.200	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
588	14.000	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.71	6.71	6.71	0.02	0.00	0.17	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
589	13.800	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
590	13.600	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
591	13.400	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.70	6.70	6.70	0.02	0.00	0.17	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
592	13.200	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	6.69	0.02	0.00	0.17	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
593	13.000	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	6.69	0.02	0.00	0.18	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
594	12.800	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.69	6.69	6.69	0.02	0.00	0.18	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
595	12.600	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
596	12.400	7.52	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
597	12.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	0.02	0.00	0.18	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
598	12.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
599	11.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
600	11.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.67	6.67	6.67	0.02	0.00	0.18	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
601	11.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
602	11.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
603	11.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.66	6.66	6.66	0.02	0.00	0.18	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
604	10.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	6.65	6.65	6.65	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.18 0.06 0.00 0.00 0.00 0.00 0.00 3.50 0.02 0.00 0.11 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
579	15.800	30.39	0.00	0.00	0.00	3.03	10.59	0.00	10.59	0.00	1.65	0.21	0.00	1.86	0.00	42.31	0.00	0.	0.00
580	15.600	30.38	0.00	0.00	0.00	2.97	10.54	0.00	10.54	0.00	1.65	0.21	0.00	1.86	0.00	42.62	0.00	0.	0.00
581	15.400	30.38	0.00	0.00	0.00	2.93	10.49	0.00	10.49	0.00	1.65	0.21	0.00	1.86	0.00	42.92	0.00	0.	0.00
582	15.200	30.37	0.00	0.00	0.00	2.90	10.45	0.00	10.45	0.00	1.65	0.22	0.00	1.86	0.00	43.23	0.00	0.	0.00
583	15.000	30.36	0.00	0.00	0.00	2.87	10.41	0.00	10.41	0.00	1.64	0.22	0.00	1.86	0.00	43.54	0.00	0.	0.00
584	14.800	30.35	0.00	0.00	0.00	2.86	10.36	0.00	10.36	0.00	1.64	0.22	0.00	1.86	0.00	43.85	0.00	0.	0.00
585	14.600	30.35	0.00	0.00	0.00	2.86	10.32	0.00	10.32	0.00	1.64	0.22	0.00	1.86	0.00	44.15	0.00	0.	0.00
586	14.400	30.34	0.00	0.00	0.00	2.86	10.29	0.00	10.29	0.00	1.64	0.22	0.00	1.86	0.00	44.46	0.00	0.	0.00
587	14.200	30.33	0.00	0.00	0.00	2.87	10.25	0.00	10.25	0.00	1.64	0.22	0.00	1.86	0.00	44.77	0.00	0.	0.00
588	14.000	30.32	0.00	0.00	0.00	2.88	10.22	0.00	10.22	0.00	1.64	0.22	0.00	1.86	0.00	45.08	0.00	0.	0.00
589	13.800	30.32	0.00	0.00	0.00	2.90	10.18	0.00	10.18	0.00	1.64	0.22	0.00	1.86	0.00	45.38	0.00	0.	0.00
590	13.600	30.31	0.00	0.00	0.00	2.92	10.15	0.00	10.15	0.00	1.63	0.22	0.00	1.86	0.00	45.69	0.00	0.	0.00
591	13.400	30.30	0.00	0.00	0.00	2.95	10.12	0.00	10.12	0.00	1.63	0.22	0.00	1.86	0.00	46.00	0.00	0.	0.00
592	13.200	30.29	0.00	0.00	0.00	2.98	10.10	0.00	10.10	0.00	1.63	0.22	0.00	1.86	0.00	46.31	0.00	0.	0.00
593	13.000	30.28	0.00	0.00	0.00	3.02	10.07	0.00	10.07	0.00	1.63	0.22	0.00	1.86	0.00	46.62	0.00	0.	0.00
594	12.800	30.28	0.00	0.00	0.00	3.05	10.05	0.00	10.05	0.00	1.63	0.22	0.00	1.85	0.00	46.92	0.00	0.	0.00

595	12.600	30.27	0.00	0.00	0.00	3.09	10.02	0.00	10.02	0.00	1.63	0.23	0.00	1.85	0.00	47.23	0.00	0.	0.00
596	12.400	30.26	0.00	0.00	0.00	3.13	10.00	0.00	10.00	0.00	1.63	0.23	0.00	1.85	0.00	47.54	0.00	0.	0.00
597	12.200	30.25	0.00	0.00	0.00	3.18	9.98	0.00	9.98	0.00	1.63	0.23	0.00	1.85	0.00	47.85	0.00	0.	0.00
598	12.000	30.25	0.00	0.00	0.00	3.22	9.96	0.00	9.96	0.00	1.62	0.22	0.00	1.85	0.00	48.15	0.00	0.	0.00
599	11.800	30.24	0.00	0.00	0.00	3.27	9.94	0.00	9.94	0.00	1.62	0.22	0.00	1.85	0.00	48.46	0.00	0.	0.00
600	11.600	30.23	0.00	0.00	0.00	3.32	9.92	0.00	9.92	0.00	1.62	0.22	0.00	1.85	0.00	48.77	0.00	0.	0.00
601	11.400	30.22	0.00	0.00	0.00	3.37	9.90	0.00	9.90	0.00	1.62	0.22	0.00	1.85	0.00	49.08	0.00	0.	0.00
602	11.200	30.22	0.00	0.00	0.00	3.42	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.84	0.00	49.38	0.00	0.	0.00
603	11.000	30.21	0.00	0.00	0.00	3.47	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	49.69	0.00	0.	0.00
604	10.800	30.20	0.00	0.00	0.00	3.53	9.86	0.00	9.86	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 11 Saline Bayou Calibration for FTN intensive survey conditions (9/7/2005)

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
605	UPR RCH	1.08900	30.20	0.00	0.00	0.00	3.53	9.86	0.00	9.86	0.00	1.62	0.22	0.00	0.00	50.00	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
605	10.80	10.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
606	10.60	10.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
607	10.40	10.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
608	10.20	10.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
609	10.00	9.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
610	9.80	9.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
611	9.60	9.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
612	9.40	9.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
613	9.20	9.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
614	9.00	8.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
615	8.80	8.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
616	8.60	8.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
617	8.40	8.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
618	8.20	8.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
619	8.00	7.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
620	7.80	7.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
621	7.60	7.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
622	7.40	7.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
623	7.20	7.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
624	7.00	6.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
625	6.80	6.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004

626	6.60	6.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
627	6.40	6.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
628	6.20	6.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
629	6.00	5.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
630	5.80	5.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
631	5.60	5.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
632	5.40	5.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
633	5.20	5.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
634	5.00	4.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
635	4.80	4.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
636	4.60	4.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
637	4.40	4.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
638	4.20	4.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
639	4.00	3.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
640	3.80	3.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
641	3.60	3.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
642	3.40	3.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
643	3.20	3.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
644	3.00	2.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
645	2.80	2.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
646	2.60	2.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
647	2.40	2.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
648	2.20	2.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
649	2.00	1.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
650	1.80	1.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
651	1.60	1.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
652	1.40	1.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
653	1.20	1.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
654	1.00	0.80	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
655	0.80	0.60	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
656	0.60	0.40	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
657	0.40	0.20	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004
658	0.20	0.00	1.08900	55.6	0.00387	0.60	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.004

TOT			32.27		3036380.50	664416.00
AVG		0.0039		4.57	61.52	281.15
CUM			155.57			

********** 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	
605	10.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
606	10.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
607	10.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
608	10.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
609	9.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
610	9.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00

611	9.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
612	9.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
613	9.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
614	8.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
615	8.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
616	8.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.18	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
617	8.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
618	8.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
619	7.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
620	7.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
621	7.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
622	7.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
623	7.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
624	6.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
625	6.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
626	6.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
627	6.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
628	6.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
629	5.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
630	5.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
631	5.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
632	5.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
633	5.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
634	4.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
635	4.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
636	4.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
637	4.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
638	4.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
639	3.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
640	3.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
641	3.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
642	3.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
643	3.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
644	2.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
645	2.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
646	2.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
647	2.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
648	2.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
649	1.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
650	1.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
651	1.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
652	1.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
653	1.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
654	0.800	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
655	0.600	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
656	0.400	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
657	0.200	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
658	0.000	7.53	0.21	0.10	0.00	0.00	0.00	0.00	0.00	7.70	7.70	7.70	0.02	0.00	0.17	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.18	0.06	0.00	0.00	0.00	0.00	0.00	4.05			0.02	0.00	0.11	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
605	10.600	30.20	0.00	0.00	0.00	3.46	9.86	0.00	9.86	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00
606	10.400	30.20	0.00	0.00	0.00	3.41	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00
607	10.200	30.20	0.00	0.00	0.00	3.36	9.87	0.00	9.87	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00
608	10.000	30.20	0.00	0.00	0.00	3.31	9.88	0.00	9.88	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00
609	9.800	30.20	0.00	0.00	0.00	3.27	9.88	0.00	9.88	0.00	1.62	0.22	0.00	1.84	0.00	50.00	0.00	0.	0.00
610	9.600	30.20	0.00	0.00	0.00	3.24	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
611	9.400	30.20	0.00	0.00	0.00	3.21	9.89	0.00	9.89	0.00	1.62	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
612	9.200	30.20	0.00	0.00	0.00	3.18	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
613	9.000	30.20	0.00	0.00	0.00	3.15	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
614	8.800	30.20	0.00	0.00	0.00	3.13	9.90	0.00	9.90	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
615	8.600	30.20	0.00	0.00	0.00	3.11	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
616	8.400	30.20	0.00	0.00	0.00	3.09	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
617	8.200	30.20	0.00	0.00	0.00	3.08	9.91	0.00	9.91	0.00	1.63	0.22	0.00	1.85	0.00	50.00	0.00	0.	0.00
618	8.000	30.20	0.00	0.00	0.00	3.06	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.85	0.00	50.00	0.00	0.	0.00
619	7.800	30.20	0.00	0.00	0.00	3.05	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
620	7.600	30.20	0.00	0.00	0.00	3.04	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
621	7.400	30.20	0.00	0.00	0.00	3.03	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
622	7.200	30.20	0.00	0.00	0.00	3.02	9.92	0.00	9.92	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
623	7.000	30.20	0.00	0.00	0.00	3.01	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
624	6.800	30.20	0.00	0.00	0.00	3.00	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
625	6.600	30.20	0.00	0.00	0.00	3.00	9.93	0.00	9.93	0.00	1.63	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
626	6.400	30.20	0.00	0.00	0.00	2.99	9.93	0.00	9.93	0.00	1.64	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
627	6.200	30.20	0.00	0.00	0.00	2.98	9.93	0.00	9.93	0.00	1.64	0.23	0.00	1.86	0.00	50.00	0.00	0.	0.00
628	6.000	30.20	0.00	0.00	0.00	2.98	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
629	5.800	30.20	0.00	0.00	0.00	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
630	5.600	30.20	0.00	0.00	0.00	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
631	5.400	30.20	0.00	0.00	0.00	2.97	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
632	5.200	30.20	0.00	0.00	0.00	2.96	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
633	5.000	30.20	0.00	0.00	0.00	2.96	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
634	4.800	30.20	0.00	0.00	0.00	2.95	9.94	0.00	9.94	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
635	4.600	30.20	0.00	0.00	0.00	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
636	4.400	30.20	0.00	0.00	0.00	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
637	4.200	30.20	0.00	0.00	0.00	2.95	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
638	4.000	30.20	0.00	0.00	0.00	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
639	3.800	30.20	0.00	0.00	0.00	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.87	0.00	50.00	0.00	0.	0.00
640	3.600	30.20	0.00	0.00	0.00	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
641	3.400	30.20	0.00	0.00	0.00	2.94	9.95	0.00	9.95	0.00	1.64	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
642	3.200	30.20	0.00	0.00	0.00	2.94	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
643	3.000	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
644	2.800	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
645	2.600	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
646	2.400	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
647	2.200	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00

648	2.000	30.20	0.00	0.00	0.00	2.93	9.95	0.00	9.95	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
649	1.800	30.20	0.00	0.00	0.00	2.93	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
650	1.600	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
651	1.400	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
652	1.200	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
653	1.000	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
654	0.800	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.88	0.00	50.00	0.00	0.	0.00
655	0.600	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.00	0.00	0.	0.00
656	0.400	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.00	0.00	0.	0.00
657	0.200	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.00	0.00	0.	0.00
658	0.000	30.20	0.00	0.00	0.00	2.92	9.96	0.00	9.96	0.00	1.65	0.23	0.00	1.89	0.00	50.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Black Lake Bayou Calibration for FTN intensive survey conditions (9/7/2005)

TRAVEL TIME = 155.57 DAYS

MAXIMUM EFFLUENT = 77.47 PERCENT

FLOW = 0.16653 TO 1.08900 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00307 TO 0.03674 m/s
DEPTH = 0.74 TO 10.00 m
WIDTH = 8.95 TO 61.52 m

BOD DECAY = 0.07 TO 0.10 per day
NH3 DECAY = 0.12 TO 0.20 per day
SOD = 2.59 TO 12.66 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.09 TO 1.58 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 23.42 TO 30.60 deg C
DISSOLVED OXYGEN = 2.86 TO 6.31 mg/L

FINAL REPORT Praire LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 8 Praire Calibration for FTN intensive survey conditions (9/7/2005)

********** 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
549	HDWTR	0.30700	29.10	0.00	0.00	0.00	3.63	7.24	0.00	7.24	0.00	1.60	0.23	0.00	0.00	75.00	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	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN m/s	MEAN VELO m/s
549	6.00	5.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
550	5.80	5.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
551	5.60	5.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
552	5.40	5.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
553	5.20	5.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
554	5.00	4.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
555	4.80	4.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
556	4.60	4.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
557	4.40	4.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
558	4.20	4.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
559	4.00	3.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
560	3.80	3.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
561	3.60	3.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
562	3.40	3.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
563	3.20	3.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
564	3.00	2.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
565	2.80	2.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
566	2.60	2.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
567	2.40	2.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
568	2.20	2.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
569	2.00	1.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
570	1.80	1.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003	
TOT					16.59				440000.00	44000.00						
AVG				0.0031		10.00	10.00				100.00					
CUM					16.59											

********** 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 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE *	SRCE **	PO4 PROD **	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
549	5.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
550	5.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
551	5.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.19	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
552	5.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
553	5.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
554	4.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
555	4.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
556	4.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
557	4.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
558	4.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
559	3.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	

560	3.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
561	3.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
562	3.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
563	3.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
564	2.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
565	2.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
566	2.400	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
567	2.200	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
568	2.000	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
569	1.800	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
570	1.600	7.58	0.10	0.13	0.00	0.00	0.00	0.00	0.00	12.05	12.05	12.05	0.02	0.00	0.20	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.08 0.08 0.00 0.00 0.00 0.00 0.00 6.50 0.02 0.00 0.11 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
549	5.800	29.80	0.00	0.00	0.00	4.14	7.74	0.00	7.74	0.00	1.60	0.23	0.00	1.83	0.00	75.00	0.00	0.	0.00
550	5.600	29.80	0.00	0.00	0.00	4.57	8.20	0.00	8.20	0.00	1.60	0.22	0.00	1.83	0.00	75.00	0.00	0.	0.00
551	5.400	29.80	0.00	0.00	0.00	4.94	8.62	0.00	8.62	0.00	1.60	0.22	0.00	1.83	0.00	75.00	0.00	0.	0.00
552	5.200	29.80	0.00	0.00	0.00	5.25	9.00	0.00	9.00	0.00	1.61	0.22	0.00	1.82	0.00	75.00	0.00	0.	0.00
553	5.000	29.80	0.00	0.00	0.00	5.51	9.35	0.00	9.35	0.00	1.61	0.22	0.00	1.82	0.00	75.00	0.00	0.	0.00
554	4.800	29.80	0.00	0.00	0.00	5.72	9.67	0.00	9.67	0.00	1.61	0.21	0.00	1.82	0.00	75.00	0.00	0.	0.00
555	4.600	29.80	0.00	0.00	0.00	5.89	9.96	0.00	9.96	0.00	1.61	0.21	0.00	1.82	0.00	75.00	0.00	0.	0.00
556	4.400	29.80	0.00	0.00	0.00	6.03	10.23	0.00	10.23	0.00	1.61	0.21	0.00	1.82	0.00	75.00	0.00	0.	0.00
557	4.200	29.80	0.00	0.00	0.00	6.14	10.47	0.00	10.47	0.00	1.61	0.21	0.00	1.82	0.00	75.00	0.00	0.	0.00
558	4.000	29.80	0.00	0.00	0.00	6.22	10.69	0.00	10.69	0.00	1.61	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
559	3.800	29.80	0.00	0.00	0.00	6.28	10.89	0.00	10.89	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
560	3.600	29.80	0.00	0.00	0.00	6.32	11.08	0.00	11.08	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
561	3.400	29.80	0.00	0.00	0.00	6.35	11.25	0.00	11.25	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
562	3.200	29.80	0.00	0.00	0.00	6.36	11.40	0.00	11.40	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
563	3.000	29.80	0.00	0.00	0.00	6.35	11.55	0.00	11.55	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
564	2.800	29.80	0.00	0.00	0.00	6.34	11.68	0.00	11.68	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
565	2.600	29.80	0.00	0.00	0.00	6.31	11.79	0.00	11.79	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
566	2.400	29.80	0.00	0.00	0.00	6.28	11.90	0.00	11.90	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
567	2.200	29.80	0.00	0.00	0.00	6.25	12.00	0.00	12.00	0.00	1.62	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
568	2.000	29.80	0.00	0.00	0.00	6.20	12.09	0.00	12.09	0.00	1.63	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
569	1.800	29.80	0.00	0.00	0.00	6.16	12.17	0.00	12.17	0.00	1.63	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00
570	1.600	29.80	0.00	0.00	0.00	6.11	12.25	0.00	12.25	0.00	1.63	0.20	0.00	1.82	0.00	75.00	0.00	0.	0.00

FINAL REPORT Praire — LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
REACH NO. 9 Bayou Baubeaux — Calibration for FTN intensive survey conditions (9/7/2005)

********** 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 #/100mL	COLI	NCM
571	UPR RCH	0.30700	29.80	0.00	0.00	0.00	6.11	12.25	0.00	12.25	0.00	1.63	0.20	0.00	0.00	75.00	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
571	1.60	1.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
572	1.40	1.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
573	1.20	1.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
574	1.00	0.80	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
575	0.80	0.60	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
576	0.60	0.40	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
577	0.40	0.20	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
578	0.20	0.00	0.30700	0.0	0.00307	0.75	10.00	10.00	20000.00	2000.00	100.00	0.00	0.000	0.000	0.003
TOT						6.03			160000.00	16000.00					
AVG					0.0031		10.00	10.00			100.00				
CUM						22.62									

********** 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 *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE 1/da	NH3 SRCE *	NH3 PROD **	NH3 PROD **	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
571	1.400	7.57	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.02	0.00	0.20	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00				
572	1.200	7.57	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.39	7.39	7.39	0.02	0.00	0.20	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00				
573	1.000	7.56	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.43	7.43	7.43	0.02	0.00	0.20	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00				
574	0.800	7.55	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.46	7.46	7.46	0.02	0.00	0.20	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00				
575	0.600	7.54	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.50	7.50	7.50	0.02	0.00	0.20	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00				
576	0.400	7.53	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.53	7.53	7.53	0.02	0.00	0.19	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00				
577	0.200	7.52	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.57	7.57	7.57	0.02	0.00	0.18	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00				
578	0.000	7.51	0.10	0.13	0.00	0.00	0.00	0.00	0.00	7.60	7.60	7.60	0.02	0.00	0.16	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00				
AVG 20 DEG C RATE			0.08	0.08	0.00	0.00	0.00	0.00	0.00	3.95			0.02	0.00	0.11	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 µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM

571	1.400	29.88	0.00	0.00	0.00	6.18	13.42	0.00	13.42	0.00	1.63	0.20	0.00	1.83	0.00	70.88	0.00	0.	0.00
572	1.200	29.95	0.00	0.00	0.00	6.05	14.49	0.00	14.49	0.00	1.63	0.20	0.00	1.83	0.00	66.75	0.00	0.	0.00
573	1.000	30.02	0.00	0.00	0.00	5.74	15.47	0.00	15.47	0.00	1.64	0.20	0.00	1.83	0.00	62.62	0.00	0.	0.00
574	0.800	30.10	0.00	0.00	0.00	5.26	16.35	0.00	16.35	0.00	1.64	0.20	0.00	1.84	0.00	58.50	0.00	0.	0.00
575	0.600	30.17	0.00	0.00	0.00	4.63	17.15	0.00	17.15	0.00	1.64	0.20	0.00	1.84	0.00	54.38	0.00	0.	0.00
576	0.400	30.25	0.00	0.00	0.00	3.88	17.87	0.00	17.87	0.00	1.64	0.20	0.00	1.84	0.00	50.25	0.00	0.	0.00
577	0.200	30.32	0.00	0.00	0.00	3.01	18.53	0.00	18.53	0.00	1.65	0.20	0.00	1.85	0.00	46.12	0.00	0.	0.00
578	0.000	30.40	0.00	0.00	0.00	2.04	19.12	0.00	19.12	0.00	1.65	0.21	0.00	1.86	0.00	42.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Praire Calibration for FTN intensive survey conditions (9/7/2005)

TRAVEL TIME = 22.62 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 0.30700 TO 0.30700 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00307 TO 0.00307 m/s
DEPTH = 10.00 TO 10.00 m
WIDTH = 10.00 TO 10.00 m

BOD DECAY = 0.13 TO 0.13 per day
NH3 DECAY = 0.16 TO 0.20 per day
SOD = 7.36 TO 12.05 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.10 TO 0.10 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 29.80 TO 30.40 deg C
DISSOLVED OXYGEN = 2.04 TO 6.36 mg/L

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

REACH SUMMARY REPORT FOR Black Lake Bayou

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	Black Lake Bayou	125.60	111.60	14.00	7.07	0.20340	0.02293	0.889	9.06	7.182	0.075	2.916	29.74
2	Black Lake Bayou	111.60	77.40	34.20	12.24	0.38070	0.03234	0.862	10.24	13.442	0.106	2.827	33.60
3	Black Lake Bayou	77.40	50.40	27.00	10.44	0.45270	0.02994	1.119	12.42	15.985	0.098	3.673	40.76
4	Black Lake	50.40	35.80	14.60	30.89	0.58370	0.00547	10.000	10.00	20.610	0.018	32.810	32.81
5	Clear Lake	35.80	24.60	11.20	22.03	0.30660	0.00589	10.000	10.00	10.826	0.019	32.810	32.81

6 Black Lake Bayou	24.60	18.00	6.60	24.91	0.30660	0.00307	10.000	10.00	10.826	0.010	32.810	32.81
7 Saline Bayou	18.00	16.00	2.00	2.96	0.78200	0.00782	10.000	10.00	27.612	0.026	32.810	32.81
10 Saline Bayou	16.00	10.80	5.20	12.77	1.08900	0.00471	4.570	50.56	38.453	0.015	14.994	165.89
11 Saline Bayou	10.80	0.00	10.80	32.27	1.08900	0.00387	4.570	61.52	38.453	0.013	14.994	201.85

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

REACH SUMMARY REPORT FOR Praire

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
8	Praire	6.00	1.60	4.40	16.59	0.30700	0.00307	10.000	10.00	10.840	0.010	32.810	32.81
9	Bayou Baubeaux	1.60	0.00	1.60	6.03	0.30700	0.00307	10.000	10.00	10.840	0.010	32.810	32.81

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1	30.	0.	-65.	0.	0.	0.	0.	0.	0.	30.	0.	7.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-71.0	71.0	0.00
2	65.	0.	-69.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-75.0	75.0	0.00
3	69.	0.	-72.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-78.6	78.6	0.00
4	72.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-81.7	81.7	0.00
5	75.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-84.5	84.5	0.00
6	78.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-87.0	87.0	0.00
7	81.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-89.2	89.2	0.00
8	83.	0.	-85.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-91.1	91.1	0.00
9	85.	0.	-86.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-92.8	92.8	0.00
10	86.	0.	-88.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-94.3	94.3	0.00
11	88.	0.	-89.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-95.7	95.7	0.00
12	89.	0.	-91.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-96.9	96.9	0.00
13	91.	0.	-92.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-97.9	97.9	0.00
14	92.	0.	-92.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-98.9	98.9	0.00
15	92.	0.	-93.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-99.7	99.7	0.00
16	93.	0.	-94.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-100.4	100.4	0.00
17	94.	0.	-95.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-101.1	101.1	0.00
18	95.	0.	-95.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-101.7	101.7	0.00
19	95.	0.	-96.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-102.2	102.2	0.00
20	96.	0.	-96.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-102.6	102.6	0.00
21	96.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-103.1	103.1	0.00
22	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	3.	0.	0.	-103.4	103.4	0.00
23	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-103.7	103.7	0.00
24	97.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-104.0	104.0	0.00
25	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-104.3	104.3	0.00
26	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-104.5	104.5	0.00
27	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-104.7	104.7	0.00
28	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-104.8	104.8	0.00
29	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.0	105.0	0.00
30	98.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.1	105.1	0.00
31	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.2	105.2	0.00
32	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.3	105.3	0.00
33	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.4	105.4	0.00
34	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.5	105.5	0.00
35	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.5	105.5	0.00
36	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
37	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
38	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
39	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
40	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
41	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
42	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
43	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
44	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
45	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00
46	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.6	105.6	0.00

47	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.5	105.5	0.00
48	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.5	105.5	0.00
49	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.4	105.4	0.00
50	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.4	105.4	0.00
51	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.3	105.3	0.00
52	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.3	105.3	0.00
53	99.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.2	105.2	0.00
54	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	2.	0.	0.	-105.2	105.2	0.00
55	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-105.1	105.1	0.00
56	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-105.0	105.0	0.00
57	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-105.0	105.0	0.00
58	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.9	104.9	0.00
59	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.8	104.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
60	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.7	104.7	0.00
61	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.6	104.6	0.00
62	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.5	104.5	0.00
63	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.4	104.4	0.00
64	98.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.3	104.3	0.00
65	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.2	104.2	0.00
66	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.1	104.1	0.00
67	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.0	104.0	0.00
68	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-103.9	103.9	0.00
69	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-103.8	103.8	0.00
70	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-103.7	103.7	0.00
71	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.2	104.2	0.00
72	97.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-104.7	104.7	0.00
73	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-105.3	105.3	0.00
74	98.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-105.8	105.8	0.00
75	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-106.2	106.2	0.00
76	99.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-106.7	106.7	0.00
77	100.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-107.1	107.1	0.00
78	100.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-107.5	107.5	0.00
79	101.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-107.9	107.9	0.00
80	101.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-108.3	108.3	0.00
81	101.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-108.7	108.7	0.00
82	102.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-109.1	109.1	0.00
83	102.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-109.4	109.4	0.00
84	103.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-109.8	109.8	0.00
85	103.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-110.1	110.1	0.00
86	103.	0.	-104.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-110.4	110.4	0.00
87	104.	0.	-104.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-110.8	110.8	0.00
88	104.	0.	-104.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-111.1	111.1	0.00
89	104.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-111.4	111.4	0.00
90	105.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-111.7	111.7	0.00
91	105.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-112.0	112.0	0.00
92	105.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-112.3	112.3	0.00
93	105.	0.	-106.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-112.6	112.6	0.00
94	106.	0.	-106.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-112.9	112.9	0.00
95	106.	0.	-106.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-113.2	113.2	0.00
96	106.	0.	-107.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-113.5	113.5	0.00
97	107.	0.	-107.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-113.8	113.8	0.00
98	107.	0.	-107.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-114.1	114.1	0.00
99	107.	0.	-107.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-114.4	114.4	0.00
100	107.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-114.7	114.7	0.00
101	108.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-115.0	115.0	0.00
102	108.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-115.3	115.3	0.00
103	108.	0.	-109.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-115.6	115.6	0.00
104	109.	0.	-109.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-115.8	115.8	0.00
105	109.	0.	-109.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-116.1	116.1	0.00

106	109.	0.	-109.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-116.4	116.4	0.00
107	109.	0.	-110.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-116.7	116.7	0.00
108	110.	0.	-110.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-117.0	117.0	0.00
109	110.	0.	-110.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-117.3	117.3	0.00
110	110.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-117.6	117.6	0.00
111	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-117.8	117.8	0.00
112	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-118.1	118.1	0.00
113	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-118.4	118.4	0.00
114	111.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-118.7	118.7	0.00
115	112.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-119.0	119.0	0.00
116	112.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-119.3	119.3	0.00
117	112.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-119.5	119.5	0.00
118	113.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-6.	0.	0.	0.	1.	0.	0.	-119.8	119.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
119	113.	0.	-126.	0.	0.	0.	0.	0.	0.	13.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-133.6	133.6	0.00
120	126.	0.	-127.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-134.4	134.4	0.00
121	127.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-135.2	135.2	0.00
122	128.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-135.9	135.9	0.00
123	129.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-136.6	136.6	0.00
124	129.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-137.2	137.2	0.00
125	130.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-137.8	137.8	0.00
126	131.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-138.4	138.4	0.00
127	131.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-139.0	139.0	0.00
128	132.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-139.5	139.5	0.00
129	132.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-140.0	140.0	0.00
130	133.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-140.5	140.5	0.00
131	133.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-140.9	140.9	0.00
132	134.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-141.4	141.4	0.00
133	134.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-141.8	141.8	0.00
134	135.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-142.2	142.2	0.00
135	135.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-142.6	142.6	0.00
136	135.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-143.0	143.0	0.00
137	136.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-143.4	143.4	0.00
138	136.	0.	-137.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-143.8	143.8	0.00
139	137.	0.	-137.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-144.1	144.1	0.00
140	137.	0.	-137.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-144.5	144.5	0.00
141	137.	0.	-138.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-144.8	144.8	0.00
142	138.	0.	-147.	0.	0.	0.	0.	0.	0.	9.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-154.4	154.4	0.00
143	147.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-155.1	155.1	0.00
144	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-155.7	155.7	0.00
145	148.	0.	-149.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-156.4	156.4	0.00
146	149.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-157.0	157.0	0.00
147	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-157.5	157.5	0.00
148	150.	0.	-151.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-158.1	158.1	0.00
149	151.	0.	-151.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-158.6	158.6	0.00
150	151.	0.	-152.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-159.1	159.1	0.00
151	152.	0.	-152.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-159.6	159.6	0.00
152	152.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-160.0	160.0	0.00
153	153.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-160.5	160.5	0.00
154	153.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-160.9	160.9	0.00
155	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-161.3	161.3	0.00
156	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-161.8	161.8	0.00
157	154.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-162.1	162.1	0.00
158	155.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-162.5	162.5	0.00
159	155.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-162.9	162.9	0.00
160	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-163.3	163.3	0.00
161	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-163.7	163.7	0.00
162	156.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-164.0	164.0	0.00
163	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-164.4	164.4	0.00
164	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-164.7	164.7	0.00

165	157.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-165.0	165.0	0.00
166	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-165.4	165.4	0.00
167	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-165.7	165.7	0.00
168	158.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-166.0	166.0	0.00
169	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-166.4	166.4	0.00
170	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-166.7	166.7	0.00
171	159.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-167.0	167.0	0.00
172	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-167.3	167.3	0.00
173	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-167.6	167.6	0.00
174	160.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-168.0	168.0	0.00
175	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-168.3	168.3	0.00
176	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-168.6	168.6	0.00
177	161.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-168.9	168.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
178	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-169.2	169.2	0.00
179	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-169.5	169.5	0.00
180	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-169.8	169.8	0.00
181	162.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-170.1	170.1	0.00
182	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-170.4	170.4	0.00
183	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-170.7	170.7	0.00
184	163.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-171.0	171.0	0.00
185	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-171.3	171.3	0.00
186	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-171.6	171.6	0.00
187	164.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-171.9	171.9	0.00
188	165.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-172.2	172.2	0.00
189	165.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-172.5	172.5	0.00
190	165.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-172.8	172.8	0.00
191	165.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-173.1	173.1	0.00
192	166.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-173.4	173.4	0.00
193	166.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-173.7	173.7	0.00
194	166.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-174.0	174.0	0.00
195	167.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-174.3	174.3	0.00
196	167.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-174.6	174.6	0.00
197	167.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-174.8	174.8	0.00
198	167.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-175.1	175.1	0.00
199	168.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-175.4	175.4	0.00
200	168.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-175.7	175.7	0.00
201	168.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-176.0	176.0	0.00
202	169.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-176.3	176.3	0.00
203	169.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-176.6	176.6	0.00
204	169.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-176.9	176.9	0.00
205	169.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-177.2	177.2	0.00
206	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-177.5	177.5	0.00
207	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-177.8	177.8	0.00
208	170.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-178.1	178.1	0.00
209	171.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-178.4	178.4	0.00
210	171.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-178.7	178.7	0.00
211	171.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-178.9	178.9	0.00
212	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-179.2	179.2	0.00
213	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-179.5	179.5	0.00
214	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-179.8	179.8	0.00
215	172.	0.	-173.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-180.1	180.1	0.00
216	173.	0.	-173.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-180.4	180.4	0.00
217	173.	0.	-173.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-180.7	180.7	0.00
218	173.	0.	-174.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-181.0	181.0	0.00
219	174.	0.	-174.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-181.3	181.3	0.00
220	174.	0.	-174.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-181.6	181.6	0.00
221	174.	0.	-174.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-181.9	181.9	0.00
222	174.	0.	-175.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-182.2	182.2	0.00
223	175.	0.	-175.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-182.4	182.4	0.00

224	175.	0.	-175.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-182.7	182.7	0.00
225	175.	0.	-176.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-183.0	183.0	0.00
226	176.	0.	-176.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-183.3	183.3	0.00
227	176.	0.	-176.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-183.6	183.6	0.00
228	176.	0.	-176.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-183.9	183.9	0.00
229	176.	0.	-177.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-184.2	184.2	0.00
230	177.	0.	-177.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-184.5	184.5	0.00
231	177.	0.	-188.	0.	0.	0.	0.	0.	0.	10.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-195.1	195.1	0.00
232	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-195.7	195.7	0.00
233	188.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-196.4	196.4	0.00
234	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-197.0	197.0	0.00
235	189.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-197.6	197.6	0.00
236	190.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-198.1	198.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
237	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-198.7	198.7	0.00	
238	191.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-199.2	199.2	0.00	
239	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-199.7	199.7	0.00	
240	192.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-200.2	200.2	0.00	
241	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-7.	0.	0.	0.	1.	0.	0.	-200.7	200.7	0.00	
242	193.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-202.0	202.0	0.00	
243	191.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-200.5	200.5	0.00	
244	190.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-199.1	199.1	0.00	
245	189.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.9	197.9	0.00	
246	187.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.7	196.7	0.00	
247	186.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.7	195.7	0.00	
248	185.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.8	194.8	0.00	
249	184.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.0	194.0	0.00	
250	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.2	193.2	0.00	
251	183.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.6	192.6	0.00	
252	182.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.0	192.0	0.00	
253	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.4	191.4	0.00	
254	181.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.0	191.0	0.00	
255	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.5	190.5	0.00	
256	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.2	190.2	0.00	
257	180.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.8	189.8	0.00	
258	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.6	189.6	0.00	
259	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.3	189.3	0.00	
260	179.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.1	189.1	0.00	
261	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.9	188.9	0.00	
262	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.8	188.8	0.00	
263	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.7	188.7	0.00	
264	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.6	188.6	0.00	
265	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.5	188.5	0.00	
266	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
267	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
268	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
269	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
270	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
271	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.4	188.4	0.00	
272	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.5	188.5	0.00	
273	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.5	188.5	0.00	
274	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.6	188.6	0.00	
275	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.7	188.7	0.00	
276	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.7	188.7	0.00	
277	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.8	188.8	0.00	
278	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-188.9	188.9	0.00	
279	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.0	189.0	0.00	
280	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.1	189.1	0.00	
281	178.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.3	189.3	0.00	
282	178.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.4	189.4	0.00	

283	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.5	189.5	0.00
284	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.6	189.6	0.00
285	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.8	189.8	0.00
286	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-189.9	189.9	0.00
287	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.0	190.0	0.00
288	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.2	190.2	0.00
289	179.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.3	190.3	0.00
290	179.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.5	190.5	0.00
291	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.6	190.6	0.00
292	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.8	190.8	0.00
293	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-190.9	190.9	0.00
294	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.1	191.1	0.00
295	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.3	191.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
296	180.	0.	-180.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.4	191.4	0.00	
297	180.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.6	191.6	0.00	
298	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.7	191.7	0.00	
299	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-191.9	191.9	0.00	
300	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.1	192.1	0.00	
301	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.2	192.2	0.00	
302	181.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.4	192.4	0.00	
303	181.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.6	192.6	0.00	
304	182.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.7	192.7	0.00	
305	182.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-192.9	192.9	0.00	
306	182.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.1	193.1	0.00	
307	182.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.2	193.2	0.00	
308	182.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.4	193.4	0.00	
309	182.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.6	193.6	0.00	
310	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.8	193.8	0.00	
311	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-193.9	193.9	0.00	
312	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.1	194.1	0.00	
313	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.3	194.3	0.00	
314	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.4	194.4	0.00	
315	183.	0.	-183.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.6	194.6	0.00	
316	183.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-194.8	194.8	0.00	
317	184.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.0	195.0	0.00	
318	184.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.1	195.1	0.00	
319	184.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.3	195.3	0.00	
320	184.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.5	195.5	0.00	
321	184.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.6	195.6	0.00	
322	184.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-195.8	195.8	0.00	
323	185.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.0	196.0	0.00	
324	185.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.1	196.1	0.00	
325	185.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.3	196.3	0.00	
326	185.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.5	196.5	0.00	
327	185.	0.	-185.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.7	196.7	0.00	
328	185.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-196.8	196.8	0.00	
329	186.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.0	197.0	0.00	
330	186.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.2	197.2	0.00	
331	186.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.3	197.3	0.00	
332	186.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.5	197.5	0.00	
333	186.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.7	197.7	0.00	
334	186.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-197.8	197.8	0.00	
335	187.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-198.0	198.0	0.00	
336	187.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-198.2	198.2	0.00	
337	187.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-198.3	198.3	0.00	
338	187.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-10.	0.	0.	0.	2.	0.	0.	-198.5	198.5	0.00	
339	187.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-198.7	198.7	0.00	
340	187.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-198.8	198.8	0.00	
341	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.0	199.0	0.00	

342	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.2	199.2	0.00
343	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.4	199.4	0.00
344	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.5	199.5	0.00
345	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.7	199.7	0.00
346	188.	0.	-188.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-199.8	199.8	0.00
347	188.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.0	200.0	0.00
348	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.2	200.2	0.00
349	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.3	200.3	0.00
350	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.5	200.5	0.00
351	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.7	200.7	0.00
352	189.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-200.8	200.8	0.00
353	189.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.0	201.0	0.00
354	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.2	201.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
355	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.3	201.3	0.00
356	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.5	201.5	0.00
357	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.7	201.7	0.00
358	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-201.8	201.8	0.00
359	190.	0.	-190.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.0	202.0	0.00
360	190.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.2	202.2	0.00
361	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.3	202.3	0.00
362	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.5	202.5	0.00
363	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.6	202.6	0.00
364	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-202.8	202.8	0.00
365	191.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.0	203.0	0.00
366	191.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.1	203.1	0.00
367	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.3	203.3	0.00
368	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.4	203.4	0.00
369	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.6	203.6	0.00
370	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.8	203.8	0.00
371	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-203.9	203.9	0.00
372	192.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-204.1	204.1	0.00
373	192.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-204.2	204.2	0.00
374	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-204.4	204.4	0.00
375	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-204.6	204.6	0.00
376	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	-11.	0.	0.	0.	2.	0.	0.	-204.7	204.7	0.00
377	193.	0.	-198.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-3.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-211.0	211.0	0.00
378	198.	0.	-203.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-3.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-216.1	216.1	0.00
379	203.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-4.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-220.7	220.6	0.00
380	207.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-4.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-224.7	224.7	0.00
381	211.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-4.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-228.3	228.3	0.00
382	214.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-5.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-231.4	231.4	0.00
383	217.	0.	-220.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-5.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-234.1	234.1	0.00
384	220.	0.	-222.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-5.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-236.5	236.5	0.00
385	222.	0.	-223.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-5.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-238.5	238.5	0.00
386	223.	0.	-225.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-240.1	240.1	0.00
387	225.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-241.5	241.5	0.00
388	226.	0.	-261.	0.	0.	0.	0.	0.	0.	33.	0.	5.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-276.4	276.4	0.00
389	261.	0.	-262.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-278.1	278.1	0.00
390	262.	0.	-263.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-279.4	279.4	0.00
391	263.	0.	-264.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-6.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-280.6	280.6	0.00
392	264.	0.	-265.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-281.6	281.6	0.00
393	265.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-282.3	282.3	0.00
394	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-282.9	282.9	0.00
395	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-283.3	283.3	0.00
396	266.	0.	-267.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	12.	0.	0.	-283.6	283.6	0.00
397	267.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-283.7	283.7	0.00
398	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-7.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-283.7	283.7	0.00
399	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-283.5	283.5	0.00
400	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-283.3	283.3	0.00

401	266.	0.	-265.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-282.9	282.9	0.00
402	265.	0.	-264.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-282.4	282.4	0.00
403	264.	0.	-264.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-281.9	281.9	0.00
404	264.	0.	-263.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-281.2	281.2	0.00
405	263.	0.	-262.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-280.5	280.5	0.00
406	262.	0.	-261.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-8.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-279.7	279.7	0.00
407	261.	0.	-260.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-278.8	278.8	0.00
408	260.	0.	-259.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-277.9	277.9	0.00
409	259.	0.	-258.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-277.0	277.0	0.00
410	258.	0.	-257.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-275.9	275.9	0.00
411	257.	0.	-256.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-274.9	274.9	0.00
412	256.	0.	-255.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-273.8	273.8	0.00
413	255.	0.	-253.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-272.6	272.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
414	253.	0.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-271.5	271.5	0.00
415	252.	0.	-251.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-270.3	270.3	0.00
416	251.	0.	-250.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-269.0	269.0	0.00
417	250.	0.	-248.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-9.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-267.8	267.8	0.00
418	248.	0.	-247.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-266.5	266.5	0.00
419	247.	0.	-246.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-265.2	265.2	0.00
420	246.	0.	-244.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-264.0	264.0	0.00
421	244.	0.	-243.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-262.7	262.7	0.00
422	243.	0.	-241.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-261.4	261.4	0.00
423	241.	0.	-240.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-260.0	260.0	0.00
424	240.	0.	-239.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-258.7	258.7	0.00
425	239.	0.	-237.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-257.4	257.4	0.00
426	237.	0.	-236.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-256.1	256.1	0.00
427	236.	0.	-235.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-254.8	254.8	0.00
428	235.	0.	-233.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-253.5	253.5	0.00
429	233.	0.	-232.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-252.2	252.2	0.00
430	232.	0.	-230.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-250.9	250.9	0.00
431	230.	0.	-229.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-249.6	249.6	0.00
432	229.	0.	-228.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-248.3	248.3	0.00
433	228.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-247.0	247.0	0.00
434	226.	0.	-225.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-245.7	245.7	0.00
435	225.	0.	-224.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-244.5	244.5	0.00
436	224.	0.	-223.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-243.3	243.3	0.00
437	223.	0.	-221.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-242.0	242.0	0.00
438	221.	0.	-220.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-240.8	240.8	0.00
439	220.	0.	-219.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-239.6	239.6	0.00
440	219.	0.	-218.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-238.4	238.4	0.00
441	218.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-237.3	237.3	0.00
442	216.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-236.1	236.1	0.00
443	215.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-235.0	235.0	0.00
444	214.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-233.9	233.9	0.00
445	213.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-232.8	232.8	0.00
446	212.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-231.7	231.7	0.00
447	211.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-230.6	230.6	0.00
448	209.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-229.6	229.6	0.00
449	208.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-7.	0.	0.	0.	13.	0.	0.	-228.5	228.5	0.00
450	207.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-227.5	227.5	0.00
451	208.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-228.2	228.2	0.00
452	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-228.9	228.9	0.00
453	209.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-229.4	229.4	0.00
454	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-229.9	229.9	0.00
455	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.3	230.3	0.00
456	210.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.6	230.6	0.00
457	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.8	230.8	0.00
458	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.0	231.0	0.00
459	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.1	231.1	0.00

460	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.1	231.1	0.00
461	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.1	231.1	0.00
462	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.1	231.1	0.00
463	211.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-231.0	231.0	0.00
464	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.8	230.8	0.00
465	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.6	230.6	0.00
466	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.4	230.4	0.00
467	210.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-230.2	230.2	0.00
468	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-229.9	229.9	0.00
469	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-229.6	229.6	0.00
470	209.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-229.3	229.3	0.00
471	208.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-228.9	228.9	0.00
472	208.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-228.6	228.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
473	208.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-228.2	228.2	0.00
474	207.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-227.8	227.8	0.00
475	207.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-227.4	227.4	0.00
476	206.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	13.	0.	0.	-227.0	227.0	0.00
477	206.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-226.5	226.5	0.00
478	205.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-226.1	226.1	0.00
479	205.	0.	-204.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-225.6	225.6	0.00
480	204.	0.	-204.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-225.2	225.2	0.00
481	204.	0.	-203.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-224.7	224.7	0.00
482	203.	0.	-203.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-224.3	224.3	0.00
483	203.	0.	-202.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-223.8	223.8	0.00
484	202.	0.	-202.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-223.3	223.3	0.00
485	202.	0.	-201.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-222.9	222.9	0.00
486	201.	0.	-201.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-5.	0.	0.	0.	14.	0.	0.	-222.4	222.4	0.00
487	201.	0.	-200.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-221.9	221.9	0.00
488	200.	0.	-200.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-221.5	221.5	0.00
489	200.	0.	-199.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-221.0	221.0	0.00
490	199.	0.	-199.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-220.5	220.6	0.00
491	199.	0.	-198.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-220.1	220.1	0.00
492	198.	0.	-198.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-219.6	219.6	0.00
493	198.	0.	-197.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-219.2	219.2	0.00
494	197.	0.	-197.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-218.8	218.8	0.00
495	197.	0.	-196.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-218.3	218.3	0.00
496	196.	0.	-196.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-217.9	217.9	0.00
497	196.	0.	-195.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-217.5	217.5	0.00
498	195.	0.	-195.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-217.1	217.1	0.00
499	195.	0.	-195.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-216.7	216.7	0.00
500	195.	0.	-194.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-216.3	216.3	0.00
501	194.	0.	-194.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-215.9	215.9	0.00
502	194.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-215.5	215.5	0.00
503	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-215.1	215.1	0.00
504	193.	0.	-193.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-214.7	214.7	0.00
505	193.	0.	-96.	0.	0.	0.	0.	0.	0.	0.	-96.	8.	-13.	-3.	0.	0.	-6.	0.	0.	0.	14.	0.	0.	-214.4	214.4	0.00
506	96.	0.	-93.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-9.	0.	0.	0.	14.	0.	0.	-118.2	118.2	0.00
507	93.	0.	-90.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-9.	0.	0.	0.	15.	0.	0.	-115.4	115.4	0.00
508	90.	0.	-87.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-14.	-3.	0.	0.	-9.	0.	0.	0.	15.	0.	0.	-112.9	112.9	0.00
509	87.	0.	-85.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-14.	-3.	0.	0.	-9.	0.	0.	0.	15.	0.	0.	-110.8	110.8	0.00
510	85.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	16.	0.	0.	-109.0	109.0	0.00
511	83.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	16.	0.	0.	-107.5	107.5	0.00
512	81.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	16.	0.	0.	-106.3	106.3	0.00
513	80.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	17.	0.	0.	-105.4	105.4	0.00
514	79.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	17.	0.	0.	-104.7	104.7	0.00
515	78.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	17.	0.	0.	-104.3	104.3	0.00
516	78.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-14.	-3.	0.	0.	-9.	0.	0.	0.	18.	0.	0.	-104.1	104.1	0.00
517	77.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	18.	0.	0.	-104.2	104.2	0.00
518	77.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	18.	0.	0.	-104.5	104.5	0.00

519	77.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	19.	0.	0.	-104.9	104.9	0.00
520	78.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	19.	0.	0.	-105.6	105.6	0.00
521	78.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	19.	0.	0.	-106.4	106.4	0.00
522	79.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	20.	0.	0.	-107.4	107.4	0.00
523	80.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	20.	0.	0.	-108.6	108.6	0.00
524	81.	0.	-82.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-15.	-3.	0.	0.	-9.	0.	0.	0.	20.	0.	0.	-110.0	110.0	0.00
525	82.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-3.	0.	0.	-9.	0.	0.	0.	21.	0.	0.	-111.5	111.5	0.00
526	84.	0.	-85.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-3.	0.	0.	-9.	0.	0.	0.	21.	0.	0.	-113.1	113.1	0.00
527	85.	0.	-87.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-3.	0.	0.	-9.	0.	0.	0.	21.	0.	0.	-114.9	114.9	0.00
528	87.	0.	-89.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-3.	0.	0.	-9.	0.	0.	0.	22.	0.	0.	-116.9	116.9	0.00
529	89.	0.	-91.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-3.	0.	0.	-9.	0.	0.	0.	22.	0.	0.	-118.9	118.9	0.00
530	91.	0.	-93.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-4.	0.	0.	-10.	0.	0.	0.	23.	0.	0.	-121.1	121.1	0.00
531	93.	0.	-95.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-15.	-4.	0.	0.	-10.	0.	0.	0.	23.	0.	0.	-123.4	123.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
532	95.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-15.	-4.	0.	0.	-10.	0.	0.	0.	23.	0.	0.	-125.8	125.8	0.00
533	97.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-15.	-4.	0.	0.	-10.	0.	0.	0.	24.	0.	0.	-128.3	128.3	0.00
534	100.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-15.	-4.	0.	0.	-10.	0.	0.	0.	24.	0.	0.	-131.0	131.0	0.00
535	103.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-15.	-4.	0.	0.	-10.	0.	0.	0.	24.	0.	0.	-133.7	133.7	0.00
536	105.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-15.	-4.	0.	0.	-10.	0.	0.	0.	25.	0.	0.	-136.6	136.6	0.00
537	108.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-15.	-4.	0.	0.	-10.	0.	0.	0.	25.	0.	0.	-139.5	139.5	0.00
538	111.	0.	-114.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-15.	-4.	0.	0.	-10.	0.	0.	0.	25.	0.	0.	-142.5	142.5	0.00
539	114.	0.	-280.	0.	0.	0.	0.	0.	0.	173.	0.	6.	-10.	-4.	0.	0.	-25.	0.	0.	0.	26.	0.	0.	-318.9	318.9	0.00
540	280.	0.	-274.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-10.	-4.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-313.5	313.5	0.00
541	274.	0.	-269.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-4.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-308.4	308.4	0.00
542	269.	0.	-264.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-11.	-4.	0.	0.	-25.	0.	0.	0.	28.	0.	0.	-303.6	303.6	0.00
543	264.	0.	-258.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-25.	0.	0.	0.	28.	0.	0.	-299.0	299.0	0.00
544	258.	0.	-254.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-3.	0.	0.	-25.	0.	0.	0.	29.	0.	0.	-294.6	294.6	0.00
545	254.	0.	-249.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-13.	-3.	0.	0.	-25.	0.	0.	0.	29.	0.	0.	-290.6	290.6	0.00
546	249.	0.	-245.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-3.	0.	0.	-25.	0.	0.	0.	30.	0.	0.	-286.7	286.7	0.00
547	245.	0.	-241.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-14.	-3.	0.	0.	-25.	0.	0.	0.	31.	0.	0.	-283.2	283.2	0.00
548	241.	0.	-237.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-14.	-3.	0.	0.	-25.	0.	0.	0.	31.	0.	0.	-279.9	279.9	0.00
579	237.	54.	-285.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-47.	-8.	0.	0.	-68.	0.	0.	0.	72.	0.	0.	-407.9	407.9	0.00
580	285.	0.	-280.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-47.	-8.	0.	0.	-68.	0.	0.	0.	73.	0.	0.	-402.3	402.3	0.00
581	280.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-47.	-8.	0.	0.	-68.	0.	0.	0.	73.	0.	0.	-398.0	398.0	0.01
582	276.	0.	-273.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-47.	-8.	0.	0.	-68.	0.	0.	0.	74.	0.	0.	-394.7	394.7	0.01
583	273.	0.	-270.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-46.	-8.	0.	0.	-68.	0.	0.	0.	74.	0.	0.	-392.4	392.4	0.01
584	270.	0.	-269.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-46.	-8.	0.	0.	-68.	0.	0.	0.	75.	0.	0.	-391.0	391.0	0.01
585	269.	0.	-269.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-46.	-8.	0.	0.	-68.	0.	0.	0.	75.	0.	0.	-390.3	390.3	0.01
586	269.	0.	-269.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-46.	-8.	0.	0.	-68.	0.	0.	0.	76.	0.	0.	-390.3	390.3	0.01
587	269.	0.	-270.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-46.	-8.	0.	0.	-68.	0.	0.	0.	76.	0.	0.	-390.9	390.9	0.00
588	270.	0.	-271.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-46.	-8.	0.	0.	-68.	0.	0.	0.	77.	0.	0.	-392.0	392.0	0.00
589	271.	0.	-273.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-45.	-8.	0.	0.	-68.	0.	0.	0.	77.	0.	0.	-393.7	393.7	0.00
590	273.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-45.	-8.	0.	0.	-68.	0.	0.	0.	78.	0.	0.	-395.7	395.7	0.00
591	275.	0.	-278.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-45.	-8.	0.	0.	-68.	0.	0.	0.	78.	0.	0.	-398.2	398.2	0.00
592	278.	0.	-281.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-45.	-8.	0.	0.	-68.	0.	0.	0.	79.	0.	0.	-401.0	401.0	0.00
593	281.	0.	-284.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-45.	-8.	0.	0.	-68.	0.	0.	0.	79.	0.	0.	-404.1	404.1	0.00
594	284.	0.	-287.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-45.	-8.	0.	0.	-68.	0.	0.	0.	80.	0.	0.	-407.4	407.4	0.00
595	287.	0.	-291.	0.	0.	0.	0.	0.	0.	0.	0.	43.	-45.	-8.	0.	0.	-68.	0.	0.	0.	80.	0.	0.	-411.0	411.0	0.00
596	291.	0.	-295.	0.	0.	0.	0.	0.	0.	0.	0.	43.	-44.	-8.	0.	0.	-68.	0.	0.	0.	81.	0.	0.	-414.9	414.9	0.00
597	295.	0.	-299.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-44.	-8.	0.	0.	-68.	0.	0.	0.	81.	0.	0.	-418.9	418.9	0.00
598	299.	0.	-303.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-44.	-8.	0.	0.	-67.	0.	0.	0.	82.	0.	0.	-423.1	423.1	0.00
599	303.	0.	-308.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-44.	-8.	0.	0.	-67.	0.	0.	0.	82.	0.	0.	-427.4	427.4	0.00
600	308.	0.	-312.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-44.	-8.	0.	0.	-67.	0.	0.	0.	83.	0.	0.	-431.9	431.9	0.00
601	312.	0.	-317.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-44.	-8.	0.	0.	-67.	0.	0.	0.	83.	0.	0.	-436.4	436.4	0.00
602	317.	0.	-322.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-44.	-8.	0.	0.	-67.	0.	0.	0.	84.	0.	0.	-441.1	441.1	0.00
603	322.	0.	-327.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-44.	-8.	0.	0.	-67.	0.	0.	0.	84.	0.	0.	-445.9	445.9	0.00
604	327.	0.	-332.	0.	0.	0.	0.	0.	0.	0.	0.	39.	-44.	-8.	0.	0.	-67.	0.	0.	0.	85.	0.	0.	-450.8	450.8	0.00
605	332.	0.	-326.	0.	0.	0.	0.	0.	0.	0.	0.	48.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-483.4	483.4	0.00
606	326.	0.	-320.	0.	0.	0.	0.	0.	0.	0.	0.	49.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-478.1	478.1	0.00
607	320.	0.	-316.	0.	0.	0.	0.	0.	0.	0.	0.	50.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-473.4	473.4	0.00

608	316.	0.	-312.	0.	0.	0.	0.	0.	0.	0.	0.	50.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-469.2	469.2	0.00
609	312.	0.	-308.	0.	0.	0.	0.	0.	0.	0.	0.	51.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-465.5	465.5	0.00
610	308.	0.	-305.	0.	0.	0.	0.	0.	0.	0.	0.	51.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-462.2	462.2	0.00
611	305.	0.	-302.	0.	0.	0.	0.	0.	0.	0.	0.	51.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-459.3	459.3	0.00
612	302.	0.	-299.	0.	0.	0.	0.	0.	0.	0.	0.	52.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-456.7	456.7	0.00
613	299.	0.	-297.	0.	0.	0.	0.	0.	0.	0.	0.	52.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-454.3	454.3	0.00
614	297.	0.	-295.	0.	0.	0.	0.	0.	0.	0.	0.	52.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-452.3	452.3	0.00
615	295.	0.	-293.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-450.4	450.4	0.00
616	293.	0.	-291.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-448.8	448.8	0.00
617	291.	0.	-290.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-447.3	447.3	0.00
618	290.	0.	-288.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-446.0	446.0	0.00
619	288.	0.	-287.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-444.8	444.8	0.00
620	287.	0.	-286.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-443.8	443.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
621	286.	0.	-285.	0.	0.	0.	0.	0.	0.	0.	54.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-442.8	442.8	0.00
622	285.	0.	-284.	0.	0.	0.	0.	0.	0.	0.	54.	-53.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-441.9	441.9	0.00
623	284.	0.	-283.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-441.2	441.2	0.00
624	283.	0.	-283.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-440.4	440.4	0.00
625	283.	0.	-282.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-439.8	439.8	0.00
626	282.	0.	-281.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-439.2	439.2	0.00
627	281.	0.	-281.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-438.7	438.7	0.00
628	281.	0.	-280.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-438.2	438.2	0.00
629	280.	0.	-280.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-437.7	437.7	0.00
630	280.	0.	-279.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-437.3	437.3	0.00
631	279.	0.	-279.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-437.0	437.0	0.00
632	279.	0.	-279.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-436.6	436.6	0.00
633	279.	0.	-278.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-436.3	436.3	0.00
634	278.	0.	-278.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-436.0	436.0	0.00
635	278.	0.	-278.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-435.7	435.7	0.00
636	278.	0.	-277.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-435.5	435.5	0.00
637	277.	0.	-277.	0.	0.	0.	0.	0.	0.	0.	54.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-435.3	435.3	0.00
638	277.	0.	-277.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-435.0	435.0	0.00
639	277.	0.	-277.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.8	434.8	0.00
640	277.	0.	-277.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.7	434.7	0.00
641	277.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.5	434.5	0.00
642	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.3	434.3	0.00
643	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.2	434.2	0.00
644	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-434.0	434.0	0.00
645	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.9	433.9	0.00
646	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.8	433.8	0.00
647	276.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.7	433.7	0.00
648	276.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.5	433.5	0.00
649	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.4	433.4	0.00
650	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.3	433.3	0.00
651	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.2	433.2	0.00
652	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.2	433.2	0.00
653	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.1	433.1	0.00
654	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-433.0	433.0	0.00
655	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-432.9	432.9	0.00
656	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-432.8	432.8	0.00
657	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-432.8	432.8	0.00
658	275.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	55.	-54.	-10.	0.	0.	-95.	0.	0.	0.	103.	0.	0.	-432.7	432.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Praire

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
549	96.	0.	-110.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-19.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-157.0	157.0	0.00
550	110.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-21.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-169.7	169.7	0.00
551	121.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-22.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-180.5	180.5	0.00
552	131.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-23.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-189.6	189.6	0.00
553	139.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-23.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-197.3	197.3	0.00
554	146.	0.	-152.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-24.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-203.7	203.7	0.00
555	152.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-25.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-209.1	209.1	0.00
556	156.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-26.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-213.4	213.4	0.00
557	160.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-26.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-216.9	216.9	0.00
558	163.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-27.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-219.6	219.6	0.00
559	165.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-27.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-221.7	221.7	0.00
560	167.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-28.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-223.2	223.2	0.00
561	168.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-28.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-224.2	224.2	0.00
562	168.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-29.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-224.8	224.8	0.00
563	169.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-29.	-4.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-225.1	225.1	0.00
564	168.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-29.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-225.0	225.0	0.00
565	168.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-30.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-224.7	224.7	0.00
566	167.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-30.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-224.1	224.1	0.00
567	167.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-30.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-223.3	223.3	0.00
568	166.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-30.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-222.4	222.4	0.00
569	165.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-31.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-221.4	221.4	0.00
570	163.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-31.	-3.	0.	0.	-24.	0.	0.	0.	54.	0.	0.	-220.3	220.3	0.00
571	162.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-34.	-3.	0.	0.	-15.	0.	0.	0.	51.	0.	0.	-216.0	216.0	0.00
572	164.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-37.	-3.	0.	0.	-15.	0.	0.	0.	48.	0.	0.	-215.4	215.4	0.00
573	161.	0.	-152.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-39.	-3.	0.	0.	-15.	0.	0.	0.	46.	0.	0.	-209.7	209.7	0.00
574	152.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-42.	-3.	0.	0.	-15.	0.	0.	0.	43.	0.	0.	-199.4	199.4	0.00
575	139.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-44.	-3.	0.	0.	-15.	0.	0.	0.	40.	0.	0.	-185.0	185.0	0.00
576	123.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-46.	-3.	0.	0.	-15.	0.	0.	0.	37.	0.	0.	-166.9	166.9	0.00
577	103.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-48.	-3.	0.	0.	-15.	0.	0.	0.	34.	0.	0.	-145.7	145.7	0.00
578	80.	0.	-54.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-49.	-3.	0.	0.	-15.	0.	0.	0.	31.	0.	0.	-121.5	121.5	0.01

LA-QUAL Calib for Black Lake Bayou, Clear Lake, and Saline Bayo
Calibration for FTN intensive survey conditions (9/7/2005)

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d			
HEADWATER FLOW	0.390	126.4	210.4	0.0	52.3	7.7	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	0.270	97.4	46.6	0.0	46.6	4.7	1.2	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.736	267.2	165.4	0.0	89.1	14.0	3.2	0.0	0.0	0.0
WITHDRAWLS	-0.307	-96.1	-192.1	0.0	-42.4	-6.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-1.089	-274.5	-937.0	0.0	-155.5	-22.0	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	7750.0	0.0	358.7			0.0		
NATURAL REAERATION			7951.6							
DAM REAERATION			0.0							
BACKGROUND SOD			-11834.0							
BOD#1 DECAY			-7043.3	-7043.3						
BOD#1 SETTLING			0.0	0.0						
ANAEROBIC BOD#1 DECAY				0.0						
BOD#2 DECAY			0.0	0.0						
BOD#2 SETTLING			0.0	0.0						
ANAEROBIC BOD#2 DECAY					0.0					
ORG-N DECAY			0.0		-348.8	348.8				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-1503.0			-347.1	347.1				
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS			12308.4			0.0	-1337.9	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	1.396	20751.0	8172.4	0.0	546.7	375.1	351.5	0.0	0.0	0.0
TOTAL OUTPUTS	-1.396	-20750.9	-8172.4	0.0	-546.7	-375.1	-1337.9	0.0	0.0	0.0
NET CONVERGENCE ERROR		0.000	0.0	0.0	0.0	0.0	0.0	-986.4	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX J

90th Percentile Temperature Calculations

Table _J 1_. Calculation of 90th Precentile temperatures for Black Lake Bayou west of Castor, Louisiana (LDEQ 0282)

Summer 90th Percentile = 27.7 Temperature interpolated from highlighted values below
Winter 90th Percentile = 20.1 Temperature interpolated from highlighted values below

Date	Water Temp (C)	Season	Percentile
10/14/96	17.83	summer	2.17%
10/12/92	18.40	summer	6.52%
10/15/90	19.10	summer	10.87%
10/9/95	19.41	summer	15.22%
10/14/91	19.90	summer	19.57%
10/10/94	21.14	summer	23.91%
10/11/93	22.60	summer	28.26%
10/13/97	22.85	summer	32.61%
6/9/97	24.02	summer	36.96%
6/10/96	24.16	summer	41.30%
6/10/91	24.90	summer	45.65%
6/15/92	25.60	summer	50.00%
8/11/97	25.64	summer	54.35%
6/13/94	25.70	summer	58.70%
6/12/95	25.75	summer	63.04%
8/8/94	25.90	summer	67.39%
8/12/96	25.99	summer	71.74%
8/13/90	27.00	summer	76.09%
8/14/95	27.25	summer	80.43%
6/14/93	27.30	summer	84.78%
8/10/93	27.70	summer	89.13%
8/12/91	27.90	summer	93.48%
8/10/92	29.30	summer	97.83%

Date	Water Temp (C)	Season	Percentile
12/11/95	7.38	winter	1.92%
12/8/97	7.48	winter	5.77%
2/13/95	8.03	winter	9.62%
2/9/98	9.08	winter	13.46%
12/10/90	9.20	winter	17.31%
2/10/92	9.30	winter	21.15%
2/17/97	9.96	winter	25.00%
12/13/94	10.47	winter	28.85%
12/9/96	10.76	winter	32.69%
2/4/91	10.80	winter	36.54%
2/12/96	10.94	winter	40.38%
12/14/92	11.50	winter	44.23%
2/9/93	12.60	winter	48.08%
12/13/93	12.70	winter	51.92%
2/7/94	14.00	winter	55.77%
4/14/97	14.41	winter	59.62%
2/13/90	14.60	winter	63.46%
12/9/91	14.80	winter	67.31%
4/9/90	15.20	winter	71.15%
4/6/92	15.30	winter	75.00%
4/8/96	16.11	winter	78.85%
4/13/98	17.82	winter	82.69%
4/12/93	19.80	winter	86.54%
4/16/91	20.10	winter	90.38%
4/11/94	20.20	winter	94.23%
4/3/95	20.51	winter	98.08%

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Table _J 2_, Calculations for 90th percentile temperatures for Black Lake north of Natchitoches, Louisiana (LDEQ 366).

Date	Black Lake (LDEQ 366) Water Temp (C)	Season	Date	Kepler Creek (LDEQ 283) Water Temp (C)	Season
1/8/02	6.51	winter	1/14/02	8.18	winter
2/4/02	12.82	winter	2/18/02	8.89	winter
3/4/02	8.69	winter	3/18/02	16.73	winter
4/1/02	18.49	winter	4/8/02	15.59	winter
5/6/02	27.73	summer	5/13/02	23.50	summer
6/3/02	30.81	summer	6/10/02	24.40	summer
7/8/02	31.81	summer	7/15/02	24.00	summer
8/5/02	31.84	summer	8/12/02	25.80	summer
9/9/02	20.25	summer	9/16/02	24.20	summer
10/7/02	26.34	summer	10/14/02	16.50	summer
11/20/02	14.68	winter	11/12/02	15.75	winter
12/2/02	12.32	summer	10/3/05	23.1	summer
1/18/06	11.35	winter	1/9/06	11.79	winter
2/14/06	9.65	winter	2/6/06	11.05	winter
3/14/06	20.29	winter	3/6/06	15.08	winter
4/11/06	21.81	winter	4/3/06	20.91	winter
4/25/06	26.52	winter	4/17/06	21.79	winter
5/10/06	25.09	summer	5/1/06	18.42	summer
6/13/06	30.86	summer	6/5/06	22.03	summer
7/26/06	28.97	summer	6/19/06	22.84	summer
8/29/06	27.78	summer	8/16/06	25.64	summer
10/31/06	18.71	summer	9/20/06	18.89	summer
11/14/06	17.6	winter	12/4/06	4.56	winter

SUMMER

Averages for May through October (LTP definition of summer)

26.04 C 22.44 C

Difference between stations = 3.60 C

90th percentile summer temp for Kepler Creek = 27.10 C

Adjusted 90th percentile temp for Black Lake = 26.04 + 3.60 = 30.70 C

WINTER

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

15.31 C 13.67 C

Difference between stations = 1.64 C

90th percentile winter temp for Kepler Creek = 19.45 C

Adjusted 90th percentile temp for Black Lake = 15.31 + 1.64 = 21.09 C

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Table _J 3._, Calculations for 90th percentile temperatures for Saline Bayou southwest of Clarence, Louisiana (LDEQ 1214).

Date	Saline Bayou (LDEQ 1214) Water Temp (C)	Season	Date	Kepler Creek (LDEQ 283) Water Temp (C)	Season
1/28/02	12.29	winter	1/14/02	8.18	winter
2/25/02	14.31	winter	2/18/02	8.89	winter
3/25/02	17.41	winter	3/18/02	16.73	winter
4/15/02	21.67	winter	4/8/02	15.59	winter
5/20/02	24.44	summer	5/13/02	23.50	summer
6/17/02	28.75	summer	6/10/02	24.40	summer
7/22/02	32.31	summer	7/15/02	24.00	summer
8/19/02	30.11	summer	8/12/02	25.80	summer
9/23/02	27.36	summer	9/16/02	24.20	summer
10/21/02	21.59	summer	10/14/02	16.50	summer
11/19/02	14.96	winter	11/12/02	15.75	winter
10/4/05	27.82	summer	10/3/05	23.1	summer
1/17/06	12.59	winter	1/9/06	11.79	winter
2/13/06	10.39	winter	2/6/06	11.05	winter

SUMMER

Averages for May through October (LTP definition of summer)

27.48 C 23.07 C

Difference between stations = 4.41 C

90th percentile summer temp for Kepler Creek = 27.10 C

Adjusted 90th percentile temp for Saline Bayou = 27.48 + 4.41 = 31.51 C

WINTER

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

14.80 C 12.57 C

Difference between stations = 2.23 C

90th percentile winter temp for Kepler Creek = 19.45 C

Adjusted 90th percentile temp for Saline Bayou = 14.8 + 2.23 = 21.68 C

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APPENDIX K

Published 7Q10 Information and 7Q10 Calculations

Black Lake Bayou

Winter 7q10 =	28	cfs at USGS 07352500 Black Lake Bayou near Castor, Louisiana
Drainage area =	423	sq mi
flow per unit area =	0.066193853	cfs/sq mi

Grand Bayou

Winter 7q10 =	0.07	cfs at USGS 07352800 Grand Bayou near Coushatta, Louisiana
Drainage area =	93.9	sq mi
flow per unit area =	0.000745474	cfs/sq mi

	location	drainage area (mi2)	flow (cfs)	fow (cms)	cumulative flow (cfs)	cumulative flow (cfs)
Headwater	Black Lake Bayou at mouth of Leatherman	122.52	8.110	0.230	8.110	0.230
Trib	Leatherman Creeak at Mouth	127.68	8.452	0.239	16.562	0.469
Trib	Kepler Creek at mouth (RM 63.3)	51.68	3.421	0.097	19.983	0.566
Trib	Fourmile Bayou at mouth (RM 60.6)	35.35	2.340	0.066	22.323	0.632
Trib	Castor Creek at mouth RM (49.5)	40.56	2.685	0.076	25.008	0.708
Trib	Grand Bayou at mouth*** (RM 30)	135.84	0.101	0.003	25.109	0.711
	TOTAL	513.63	25.109	0.711		
end	Black Lake Bayou at Mouth	908.34	60.127	1.702		

	drainage area (mi2)	cfs
Black Lake Bayou at mouth of Kepler	384.99	25.484
Black Lake Bayou at mouth of Fournile	424.46	28.097
Black Lake Bayou at Mouth of Castor	509.88	33.751
Black Lake Bayou at mouth of Black Lake	630.35	41.725

63.6	102.3493
60.6	97.52149
49.5	79.65864
30	48.27796

Incremental inflow =	35.018	cfs, from begining of model to end of Clear Lake
	0.563889289	cfs/mi, Black Lake Bayou to Clear Lake (78.1-15.3 = 62.8)
Flow @ 100702-A =	8.110	cfs, RM 81.9
Flow @ 282 =	28.36662114	cfs, RM 56.8
Flow @ 1187 =	40.86329477	cfs, RM 39.4

**** The inflow at Grand Bayou is shown in the drainage area book to be entering Black Lake itself and not Black Lake Bayou.

Saline Bayou

Winter 7q10 =	21	cfs at USGS 07352000 Saline Bayou near Lucky, Louisiana
Drainage area =	154	sq mi
flow per unit area =	0.136	cfs/mi2
Saline Bayou at mouth ol	1325.410	mi2
Black Lake bayou at mou	908.340	mi2
Saline Bayou at Lake	417.070	mi2
Saline Lake inflow	56.873	cfs
Saline Bayou Flow	117.000	cfs, this is Black Lake Bayou at mouth flow and Saline Lake inflow

	begin (RM)	end (RM)	avg width (ft)	avg depth (ft)	vel (ft/sec)
Saline Bayou_R1	15.3	6.7	165.90	15	0.0470153
Saline Bayou_R2	6.7	0	201.85	15	0.0386428

avg depth (ft)	R1 velocity (ft)	R2 velocity (ft)
1	0.705229204	0.57964139
2	0.352614602	0.289820695
3	0.235076401	0.193213797

4	0.176307301	0.144910348
5	0.141045841	0.115928278
6	0.117538201	0.096606898
7	0.100747029	0.082805913
8	0.088153651	0.072455174
9	0.0783588	0.064404599
10	0.07052292	0.057964139
11	0.064111746	0.052694672
12	0.0587691	0.048303449
13	0.0542484	0.044587799
14	0.050373515	0.041402956
15	0.04701528	0.038642759
16	0.044076825	0.036227587
17	0.041484071	0.034096552
18	0.0391794	0.032202299
19	0.037117327	0.030507442
20	0.03526146	0.02898207
21	0.033582343	0.027601971
22	0.032055873	0.026347336
23	0.030662139	0.0252018
24	0.02938455	0.024151725
25	0.028209168	0.023185656
26	0.0271242	0.0222939
27	0.0261196	0.0214682
28	0.025186757	0.020701478
29	0.024318248	0.019987634
30	0.02350764	0.01932138

Incremental Inflows

Reach	length (km)	length (miles)	flow (cfs)	flow (cms)
1	14	8.699621212	4.905623216	0.138891445
2	34.2	21.25193182	11.98373671	0.339291959
3	27	16.77784091	9.460844775	0.267862073
4	14.6	9.072462121	5.115864211	0.144843936
5	11.2	6.95969697	3.924498573	0.111113156
total	101	62.76155303	35.39056749	1.00200257

Black Lake Bayou

Summer 7q10 =	6.6	cfs at USGS 07352500 Black Lake Bayou near Castor, Louisiana
Drainage area =	423	sq mi
flow per unit area =	0.015602837	cfs/sq mi

Grand Bayou

Summer 7q10 =	0	cfs at USGS 07352800 Grand Bayou near Coushatta, Louisiana
Drainage area =	93.9	sq mi
flow per unit area =	0	cfs/sq mi

	location	drainage area (mi2)	flow (cfs)	fow (cms)	cumulative flow (cfs)	cumulative flow (cfs)
Headwater	Black Lake Bayou at mouth of Leatherman	122.52	1.912	0.054	1.912	0.054
Trib	Leatherman Creeak at Mouth	127.68	1.992	0.056	3.904	0.111
Trib	Kepler Creek at mouth (RM 63.3)	51.68	0.806	0.023	4.710	0.133
Trib	Fourmile Bayou at mouth (RM 60.6)	35.35	0.552	0.016	5.262	0.149
Trib	Castor Creek at mouth RM (49.5)	40.56	0.633	0.018	5.895	0.167
Trib	Grand Bayou at mouth*** (RM 30)	135.84	0.000	0.000	5.895	0.167
	TOTAL	513.63	5.895	0.167		
end	Black Lake Bayou at Mouth	908.34	14.173	0.401		

	drainage area (mi2)	cfs
Black Lake Bayou at mouth of Kepler	384.99	6.007
Black Lake Bayou at mouth of Fournile	424.46	6.623
Black Lake Bayou at Mouth of Castor	509.88	7.956
Black Lake Bayou at mouth of Black Lake	630.35	9.835

63.6	102.3493
60.6	97.52149
49.5	79.65864
30	48.27796

Incremental inflow =	8.278	cfs, from begining of model to end of Clear Lake
	0.133295988	cfs/mi, Black Lake Bayou to Clear Lake (78.1-15.3 = 62.8)
Flow @ 100702-A =	1.912	cfs, RM 81.9
Flow @ 282 =	6.695729297	cfs, RM 56.8
Flow @ 1187 =	9.648079487	cfs, RM 39.4

**** The inflow at Grand Bayou is shown in the drainage area book to be entering Black Lake itself and not Black Lake Bayou.

Saline Bayou

Summer 7q10 =	4.7	cfs at USGS 07352000 Saline Bayou near Lucky, Louisiana
Drainage area =	154	sq mi
flow per unit area =	0.031	cfs/mi2
Saline Bayou at mouth o	1325.410	mi2
Black Lake bayou at mou	908.340	mi2
Saline Bayou at Lake	417.070	mi2
Saline Lake inflow	12.729	cfs
Saline Bayou Flow	26.901	cfs, this is Black Lake Bayou at mouth flow and Saline Lake inflow

	begin (RM)	end (RM)	avg width (ft)	avg depth (ft)	vel (ft/sec)
Saline Bayou_R1	15.3	6.7	165.90	15	0.0108101
Saline Bayou_R2	6.7	0	201.85	15	0.008885

avg depth (ft)	R1 velocity (ft)	R2 velocity (ft)
1	0.162151531	0.133275449
2	0.081075765	0.066637724
3	0.05405051	0.04442515
4	0.040537883	0.033318862

5	0.032430306	0.02665509
6	0.027025255	0.022212575
7	0.023164504	0.01903935
8	0.020268941	0.016659431
9	0.018016837	0.014808383
10	0.016215153	0.013327545
11	0.014741048	0.01211595
12	0.013512628	0.011106287
13	0.012473195	0.010251958
14	0.011582252	0.009519675
15	0.010810102	0.00888503
16	0.010134471	0.008329716
17	0.009538325	0.007839732
18	0.009008418	0.007404192
19	0.008534291	0.007014497
20	0.008107577	0.006663772
21	0.007721501	0.00634645
22	0.007370524	0.006057975
23	0.007050067	0.005794585
24	0.006756314	0.005553144
25	0.006486061	0.005331018
26	0.006236597	0.005125979
27	0.006005612	0.004936128
28	0.005791126	0.004759837
29	0.005591432	0.004595705
30	0.005405051	0.004442515

Incremental Inflows

Reach	length (km)	length (miles)	flow (cfs)	flow (cms)
1	14	8.699621212	1.159624604	0.032832105
2	34.2	21.25193182	2.832797247	0.080204143
3	27	16.77784091	2.236418879	0.06331906
4	14.6	9.072462121	1.209322801	0.034239195
5	11.2	6.95969697	0.927699683	0.026265684
total	101	62.76155303	8.365863216	0.236860187

APPENDIX L

Model Input Data and Sources for Projection

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"CNTROL01     LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Saline Bayou"
CNTROL02     Summer Projection
CNTROL03  NO SEQU
CNTROL04 YES METR
CNTROL05 YES OXYG
ENDATA01
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
PROGRAM  HYDRAULIC CALCULATION METHOD      =   2.
PROGRAM  ALGAE OXYGEN PROD                 = 0.026
ENDATA03
THETA    NH3 DECA   1.07
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BL Black Lake Bayou                 125.60    111.60    0.2000
REACH ID    2  BL Black Lake Bayou                 111.60     77.40    0.2000
REACH ID    3  BL Black Lake Bayou                  77.40     50.40    0.2000
REACH ID    4  BL Black Lake                       50.40     35.80    0.2000
REACH ID    5  CL Clear Lake                       35.80     24.60    0.2000
REACH ID    6  PA Black Lake Bayou                 24.60     18.00    0.2000
REACH ID    7  BB Saline Bayou                     18.00     16.00    0.2000
REACH ID    8  BL Praire                           6.00      1.60    0.2000
REACH ID    9  SB Bayou Baubeaux                    1.60      0.00    0.2000
REACH ID   10  SB Saline Bayou                     16.00     10.80    0.2000
REACH ID   11  SB Saline Bayou                     10.80      0.00    0.2000
ENDATA08
HYDR-1      1   11.100  0.120   0.00  1.900  0.450  0.000  0.0000
HYDR-1      2   11.900  0.120   0.00  1.510  0.450  0.000  0.0000
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HYDR-1     3  13.800  0.120   0.00  1.660  0.450  0.000  0.0000
HYDR-1     4   0.000  0.000   1297  0.000  0.000  1.520  0.0000
HYDR-1     5   0.000  0.000   1699  0.000  0.000  4.970  0.0000
HYDR-1     6   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     7   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     8   0.000  0.000   2604  0.000  0.000  0.910  0.0000
HYDR-1     9   0.000  0.000     61  0.000  0.000  3.120  0.0000
HYDR-1    10   0.000  0.000  50.56  0.000  0.000  4.570  0.0000
HYDR-1    11   0.000  0.000  61.52  0.000  0.000  4.570  0.0000
ENDATA09
ENDATA10
INITIAL    1    27.7          7.08   0.050                20.00    0.00
INITIAL    2    27.7          7.08   0.064                20.00    0.00
INITIAL    3    27.7          7.08   0.096                20.00    0.00
INITIAL    4    30.7          6.72   0.050                20.00    0.00
INITIAL    5    30.7          6.72   0.050                20.00    0.00
INITIAL    6    30.7          6.72   0.050                20.00    0.00
INITIAL    7    30.7          6.72   0.050                34.00    0.00
INITIAL    8    30.7          6.72   0.050                75.00    0.00
INITIAL    9    30.7          6.72   0.050                75.00    0.00
INITIAL   10    31.5          6.63   0.050                42.00    0.00
INITIAL   11    31.5          6.63   0.050                50.00    0.00
ENDATA11
COEFF-1    1    15  0.00 0.00   0.00  1.452   0.06
COEFF-1    2    15  0.00 0.00   0.00  1.617   0.06
COEFF-1    3    15  0.00 0.00   0.00  1.980   0.06
COEFF-1    4    20  0.80 0.00   0.00  1.501   0.06
COEFF-1    5    20  0.80 0.00   0.00  1.535   0.06
COEFF-1    6    20  0.80 0.00   0.00  2.243   0.06
COEFF-1    7    20  0.80 0.00   0.00  3.895   0.06
COEFF-1    8    20  0.80 0.00   0.00  1.518   0.08
COEFF-1    9    20  0.80 0.00   0.00  1.311   0.08
COEFF-1   10    20  0.80 0.00   0.00  3.690   0.06
COEFF-1   11    20  0.80 0.00   0.00  3.813   0.06
ENDATA12
COEFF-2    1    0.02              0.11  0.000
COEFF-2    2    0.02              0.11  0.000
COEFF-2    3    0.02              0.11  0.000
COEFF-2    4    0.02              0.11  0.000
COEFF-2    5    0.02              0.11  0.000
COEFF-2    6    0.02              0.11  0.000
COEFF-2    7    0.02              0.11  0.000
COEFF-2    8    0.02              0.11  0.000
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COEFF-2     9     0.02              0.11  0.000
COEFF-2    10     0.02              0.11  0.000
COEFF-2    11     0.02              0.11  0.000
ENDATA13
ENDATA14
ENDATA15
INCR-1      1            0.0328    27.70    0.000    0.000    0.000
INCR-1      2            0.0802    27.70    0.000    0.000    0.000
INCR-1      3            0.0633    27.70    0.000    0.000    0.000
INCR-1      4            0.0342    30.70    0.000    0.000    0.000
INCR-1      5            0.0263    30.70    0.000    0.000    0.000
ENDATA16
INCR-2      1       5.30     1.32    1.320    0.130    0.050
INCR-2      2       5.30     1.32    1.320    0.130    0.050
INCR-2      3       5.30     1.32    1.320    0.130    0.050
INCR-2      4       4.92     1.38    1.380    0.140    0.050
INCR-2      5       4.92     1.38    1.380    0.140    0.050
ENDATA17
ENDATA18
NONPOINT    1       13.2     0.99
NONPOINT    2       39.6     1.52
NONPOINT    3       19.8     13.5
NONPOINT    4      10902      752
NONPOINT    5      35880     2484
NONPOINT    6       1553      107
NONPOINT    7        738     45.1
NONPOINT    8      10695      276
NONPOINT    9        566     10.4
NONPOINT   10        574     38.5
NONPOINT   11       2440      107
ENDATA19
HDWTR-1     1  Black Lake Bayou          0.05400    27.7            0.0     0.0
HDWTR-1   549  Praire                    0.20300    30.7            0.0     0.0
ENDATA20
HDWTR-2     1       5.24     1.69     0.91     0.15     0.00
HDWTR-2   549       6.20     3.87     1.06     0.12     0.00
ENDATA21
HDWTR-3     1       0.00     20.0     0.00     0.00
HDWTR-3   549       0.00     20.0     0.00     0.00
ENDATA22
JUNCTION  579  548     Clear Lake and Praire
ENDATA23
WSTLD-1     1  NPS Letherman Creek   0.05600     27.7            0.0      0.0
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WSTLD-1   119  NPS Kepler Creek      0.02300     27.7              0.0      0.0
WSTLD-1   142  NPS FourMile Creek    0.01600     27.7              0.0      0.0
WSTLD-1   231  NPS Castor Creek      0.01800     27.7              0.0      0.0
WSTLD-1   388  NPS Grand Bayou       0.00300     30.7              0.0      0.0
WSTLD-1   505  NPS Clear Lake out    -0.2030     30.7              0.0      0.0
WSTLD-1   539  NPS Saline Lake       0.36040     31.7              0.0      0.0
ENDATA24
WSTLD-2     1       5.23     1.72    0     0.92     0.15    0     0.05
WSTLD-2   119       5.55     1.72    0     0.92     0.15    0     0.05
WSTLD-2   142       5.30     1.72    0     0.92     0.15    0     0.05
WSTLD-2   231       5.30     1.72    0     0.92     0.15    0     0.05
WSTLD-2   388       4.90     1.79    0     0.97     0.15    0     0.05
WSTLD-2   505       6.20     3.87    0     1.06     0.12    0     0.05
WSTLD-2   539       4.72     2.13    0     1.15     0.18    0     0.05
ENDATA25
WSTLD-3     1       0.0     20.0    0
WSTLD-3   119       0.0     20.0    0
WSTLD-3   142       0.0     20.0    0
WSTLD-3   231       0.0     20.0    0
WSTLD-3   388       0.0     20.0    0
WSTLD-3   505       0.0     20.0    0
WSTLD-3   539       0.0     20.0    0
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =   9
PLOT RCH  1  2  3  4  5  6  7 10 11
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  8  9
ENDATA30
OVERLAY 1 Main.OVL                    :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL                  :Praire; Bayou Barbeaux
ENDATA31
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"CNTROL01     LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Saline Bayou"
CNTROL02     Winter Projection
CNTROL03  NO SEQU
CNTROL04 YES METR
CNTROL05 YES OXYG
ENDATA01
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
PROGRAM  HYDRAULIC CALCULATION METHOD      =   2.
PROGRAM  ALGAE OXYGEN PROD                 = 0.026
ENDATA03
THETA    NH3 DECA   1.07
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BL Black Lake Bayou                125.60    111.60    0.2000
REACH ID    2  BL Black Lake Bayou                111.60     77.40    0.2000
REACH ID    3  BL Black Lake Bayou                 77.40     50.40    0.2000
REACH ID    4  BL Black Lake                      50.40     35.80    0.2000
REACH ID    5  CL Clear Lake                      35.80     24.60    0.2000
REACH ID    6  PA Black Lake Bayou                24.60     18.00    0.2000
REACH ID    7  BB Saline Bayou                    18.00     16.00    0.2000
REACH ID    8  BL Praire                           6.00      1.60    0.2000
REACH ID    9  SB Bayou Baubeaux                   1.60      0.00    0.2000
REACH ID   10  SB Saline Bayou                    16.00     10.80    0.2000
REACH ID   11  SB Saline Bayou                    10.80      0.00    0.2000
ENDATA08
HYDR-1      1   11.100  0.120   0.00  1.900  0.450  0.000  0.0000
HYDR-1      2   11.900  0.120   0.00  1.510  0.450  0.000  0.0000
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HYDR-1     3  13.800  0.120   0.00  1.660  0.450  0.000  0.0000
HYDR-1     4   0.000  0.000   1297  0.000  0.000  1.520  0.0000
HYDR-1     5   0.000  0.000   1699  0.000  0.000  4.970  0.0000
HYDR-1     6   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     7   0.000  0.000    110  0.000  0.000  5.680  0.0000
HYDR-1     8   0.000  0.000   2604  0.000  0.000  0.910  0.0000
HYDR-1     9   0.000  0.000     61  0.000  0.000  3.120  0.0000
HYDR-1    10   0.000  0.000  50.56  0.000  0.000  4.570  0.0000
HYDR-1    11   0.000  0.000  61.52  0.000  0.000  4.570  0.0000
ENDATA09
ENDATA10
INITIAL    1    20.1          8.17   0.050                20.00    0.00
INITIAL    2    20.1          8.17   0.064                20.00    0.00
INITIAL    3    20.1          8.17   0.096                20.00    0.00
INITIAL    4    21.1          8.01   0.050                20.00    0.00
INITIAL    5    21.1          8.01   0.050                20.00    0.00
INITIAL    6    21.1          8.01   0.050                20.00    0.00
INITIAL    7    21.7          7.92   0.050                34.00    0.00
INITIAL    8    21.1          8.01   0.050                75.00    0.00
INITIAL    9    21.1          8.01   0.050                75.00    0.00
INITIAL   10    21.7          7.92   0.050                42.00    0.00
INITIAL   11    21.7          7.92   0.050                50.00    0.00
ENDATA11
COEFF-1    1    15  0.00 0.00   0.00  1.936   0.06
COEFF-1    2    15  0.00 0.00   0.00  2.156   0.06
COEFF-1    3    15  0.00 0.00   0.00  2.640   0.06
COEFF-1    4    20  0.80 0.00   0.00  1.936   0.06
COEFF-1    5    20  0.80 0.00   0.00  1.980   0.06
COEFF-1    6    20  0.80 0.00   0.00  2.893   0.06
COEFF-1    7    20  0.80 0.00   0.00  4.750   0.06
COEFF-1    8    20  0.80 0.00   0.00  1.958   0.08
COEFF-1    9    20  0.80 0.00   0.00  1.691   0.08
COEFF-1   10    20  0.80 0.00   0.00  4.500   0.06
COEFF-1   11    20  0.80 0.00   0.00  4.650   0.06
ENDATA12
COEFF-2    1    0.02              0.11  0.000
COEFF-2    2    0.02              0.11  0.000
COEFF-2    3    0.02              0.11  0.000
COEFF-2    4    0.02              0.11  0.000
COEFF-2    5    0.02              0.11  0.000
COEFF-2    6    0.02              0.11  0.000
COEFF-2    7    0.02              0.11  0.000
COEFF-2    8    0.02              0.11  0.000
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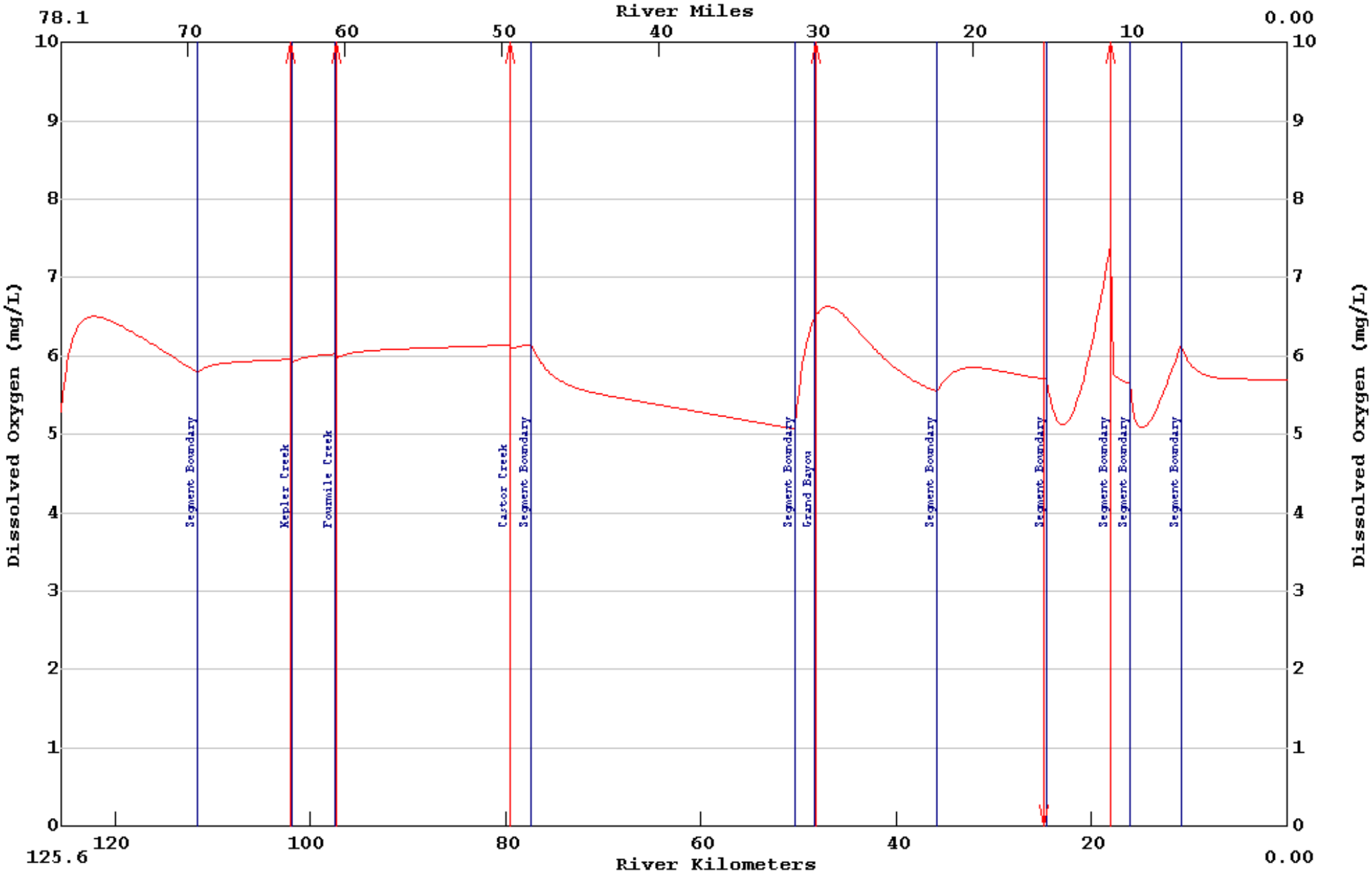
COEFF-2     9     0.02              0.11  0.000
COEFF-2    10     0.02              0.11  0.000
COEFF-2    11     0.02              0.11  0.000
ENDATA13
ENDATA14
ENDATA15
INCR-1      1          0.1389    20.10    0.000    0.000    0.000
INCR-1      2          0.3393    20.10    0.000    0.000    0.000
INCR-1      3          0.2679    20.10    0.000    0.000    0.000
INCR-1      4          0.1448    21.10    0.000    0.000    0.000
INCR-1      5          0.1111    21.10    0.000    0.000    0.000
ENDATA16
INCR-2      1      5.13     1.76    1.760    0.176    0.050
INCR-2      2      5.13     1.76    1.760    0.176    0.050
INCR-2      3      5.13     1.76    1.760    0.176    0.050
INCR-2      4      4.99     1.78    1.780    0.178    0.050
INCR-2      5      4.99     1.78    1.780    0.178    0.050
ENDATA17
ENDATA18
NONPOINT    1       17.6     1.32
NONPOINT    2       52.8     2.02
NONPOINT    3       26.4     18.0
NONPOINT    4      14062      970
NONPOINT    5      46280     3204
NONPOINT    6       2003      138
NONPOINT    7        900     55.0
NONPOINT    8      13795      356
NONPOINT    9        730     13.4
NONPOINT   10        700     47.0
NONPOINT   11       2975      130
ENDATA19
HDWTR-1     1  Black Lake Bayou          0.23000    20.1            0.0     0.0
HDWTR-1   549  Praire                    0.85650    21.1            0.0     0.0
ENDATA20
HDWTR-2     1       5.03     2.25     1.21     0.19     0.00
HDWTR-2   549       5.76     7.74     1.66     0.29     0.00
ENDATA21
HDWTR-3     1       0.00     20.0     0.00     0.00
HDWTR-3   549       0.00     20.0     0.00     0.00
ENDATA22
JUNCTION  579  548     Clear Lake and Praire
ENDATA23
WSTLD-1     1  NPS Letherman Creek   0.23900     20.1             0.0      0.0
```

```
WSTLD-1   119  NPS Kepler Creek      0.09700     20.1              0.0      0.0
WSTLD-1   142  NPS FourMile Creek    0.06600     20.1              0.0      0.0
WSTLD-1   231  NPS Castor Creek      0.07600     20.1              0.0      0.0
WSTLD-1   388  NPS Grand Bayou       0.00300     21.1              0.0      0.0
WSTLD-1   505  NPS Clear Lake out    -0.8565     21.1              0.0      0.0
WSTLD-1   539  NPs Saline Lake       1.61050     31.7              0.0      0.0
ENDATA24
WSTLD-2    1      5.02     2.29    0     1.23     0.19    0     0.05
WSTLD-2   119      5.51     2.29    0     1.23     0.19    0     0.05
WSTLD-2   142      5.13     2.29    0     1.23     0.19    0     0.05
WSTLD-2   231      5.13     2.29    0     1.23     0.19    0     0.05
WSTLD-2   388      4.96     2.31    0     1.25     0.20    0     0.05
WSTLD-2   505      5.76     7.74    0     1.66     0.29    0     0.05
WSTLD-2   539      4.94     2.60    0     1.40     0.22    0     0.05
ENDATA25
WSTLD-3    1      0.0     20.0    0
WSTLD-2   119      0.0     20.0    0
WSTLD-2   142      0.0     20.0    0
WSTLD-2   231      0.0     20.0    0
WSTLD-2   388      0.0     20.0    0
WSTLD-2   505      0.0     20.0    0
WSTLD-2   539      0.0     20.0    0
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =   9
PLOT RCH  1  2  3  4  5  6  7 10 11
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  8  9
ENDATA30
OVERLAY 1 Main.OVL                    :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL                  :Praire; Bayou Barbeaux
ENDATA31
```

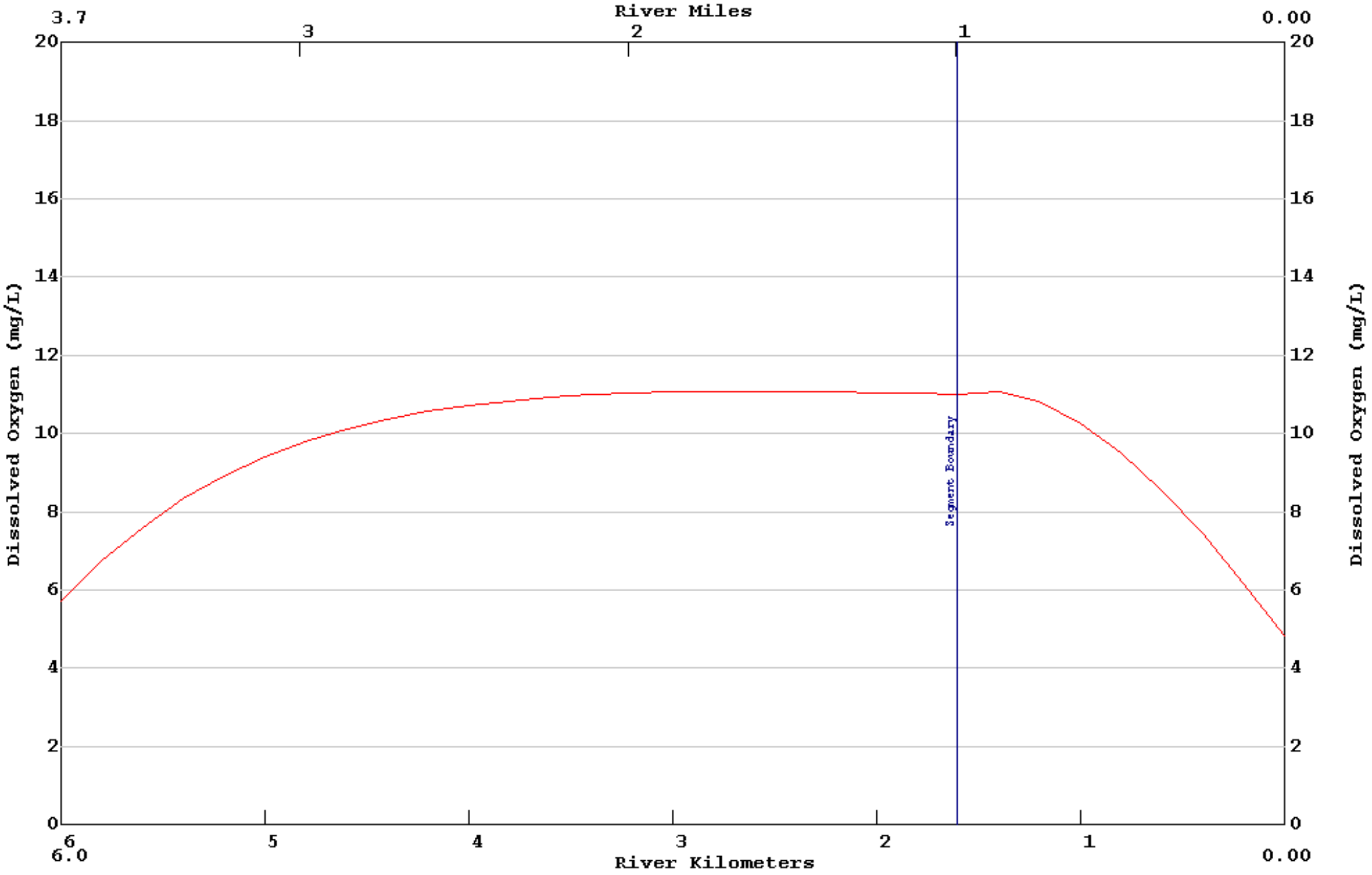
APPENDIX M

Plot of Predicted DO for Projection

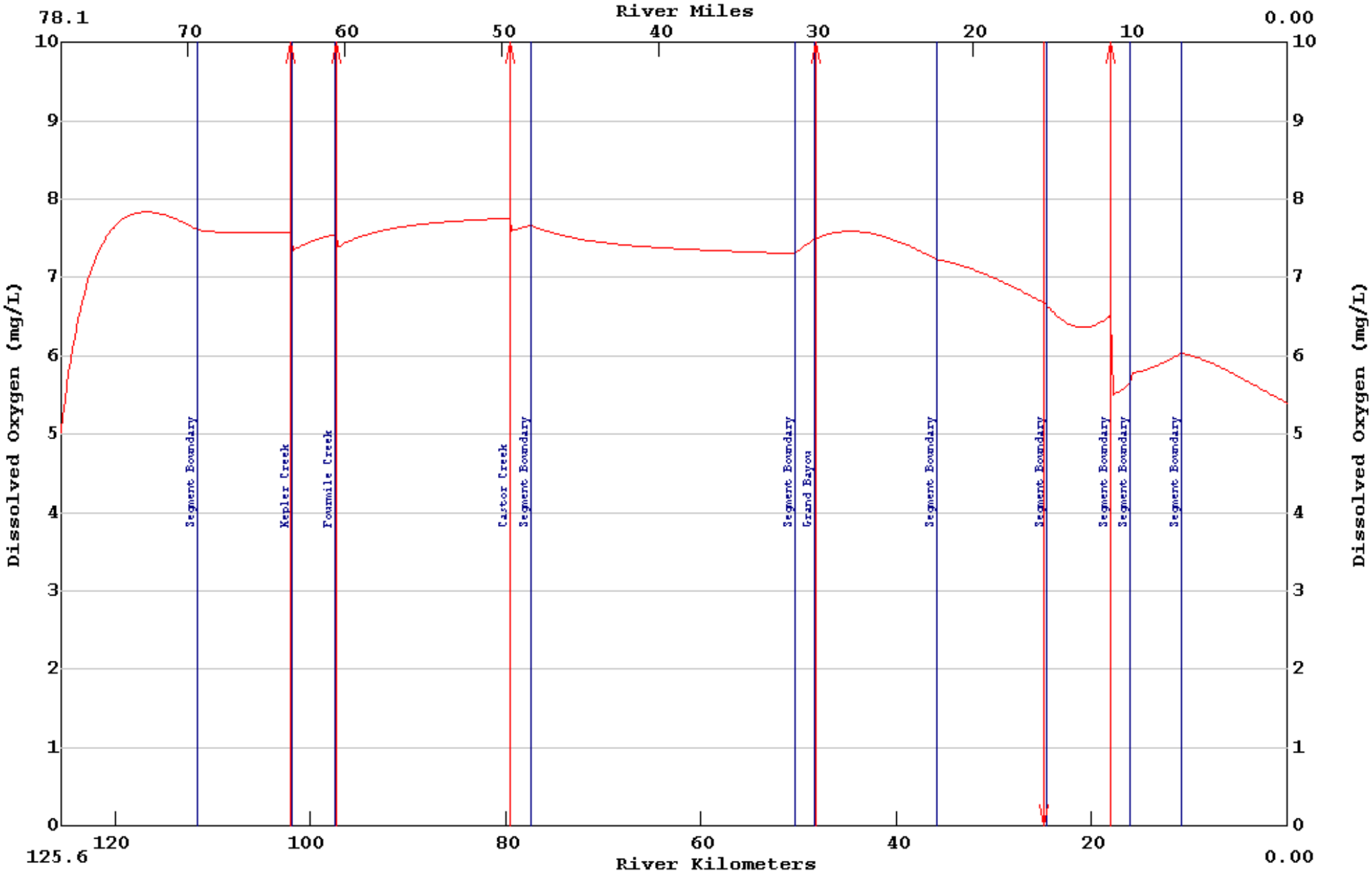
LA-QUAL Version 8.11 Run at 14:45 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 5.07 max= 7.44
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



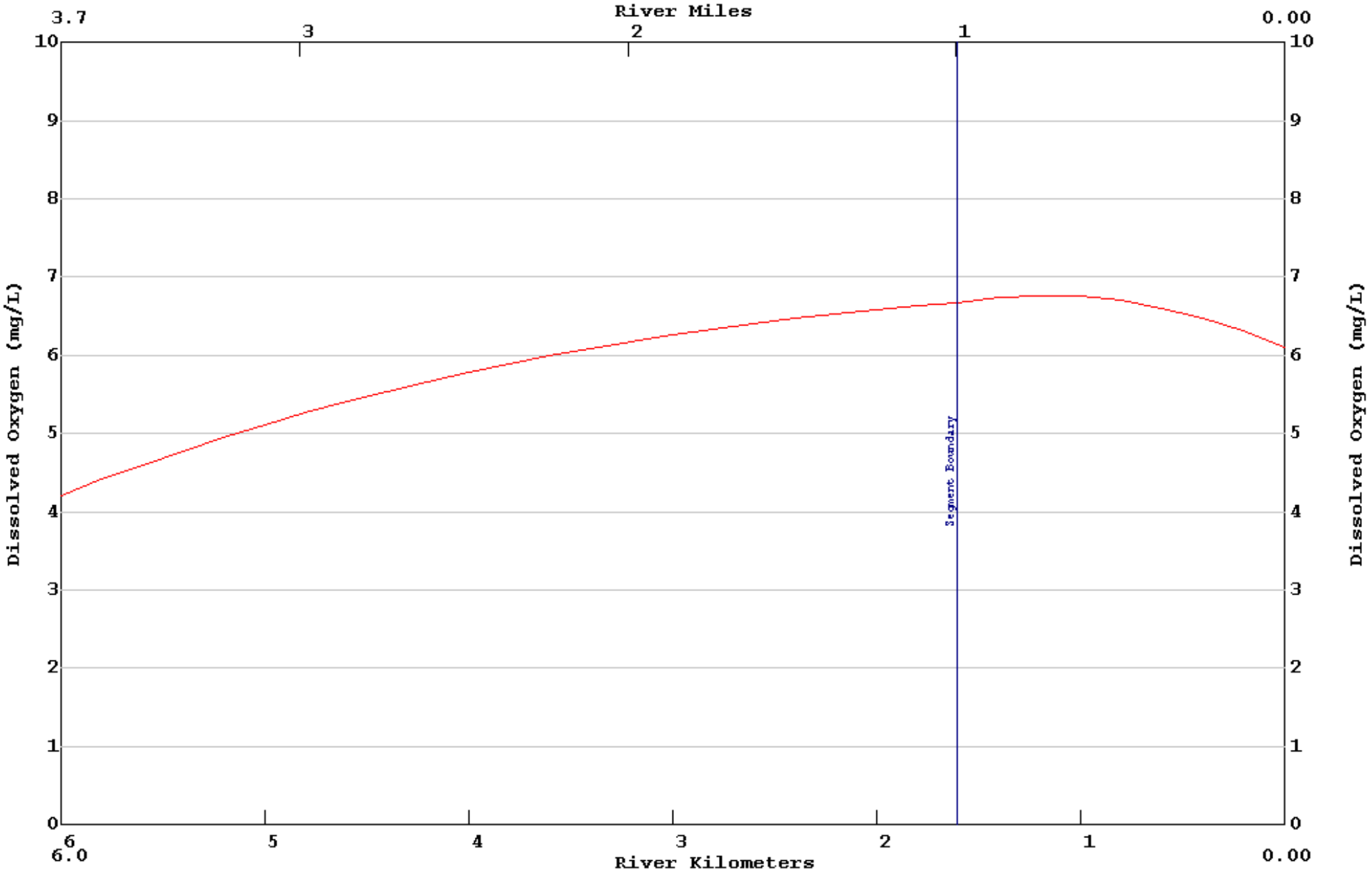
LA-QUAL Version 8.11 Run at 14:45 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 4.84 max= 11.08
Praire; Bayou Barbeaux



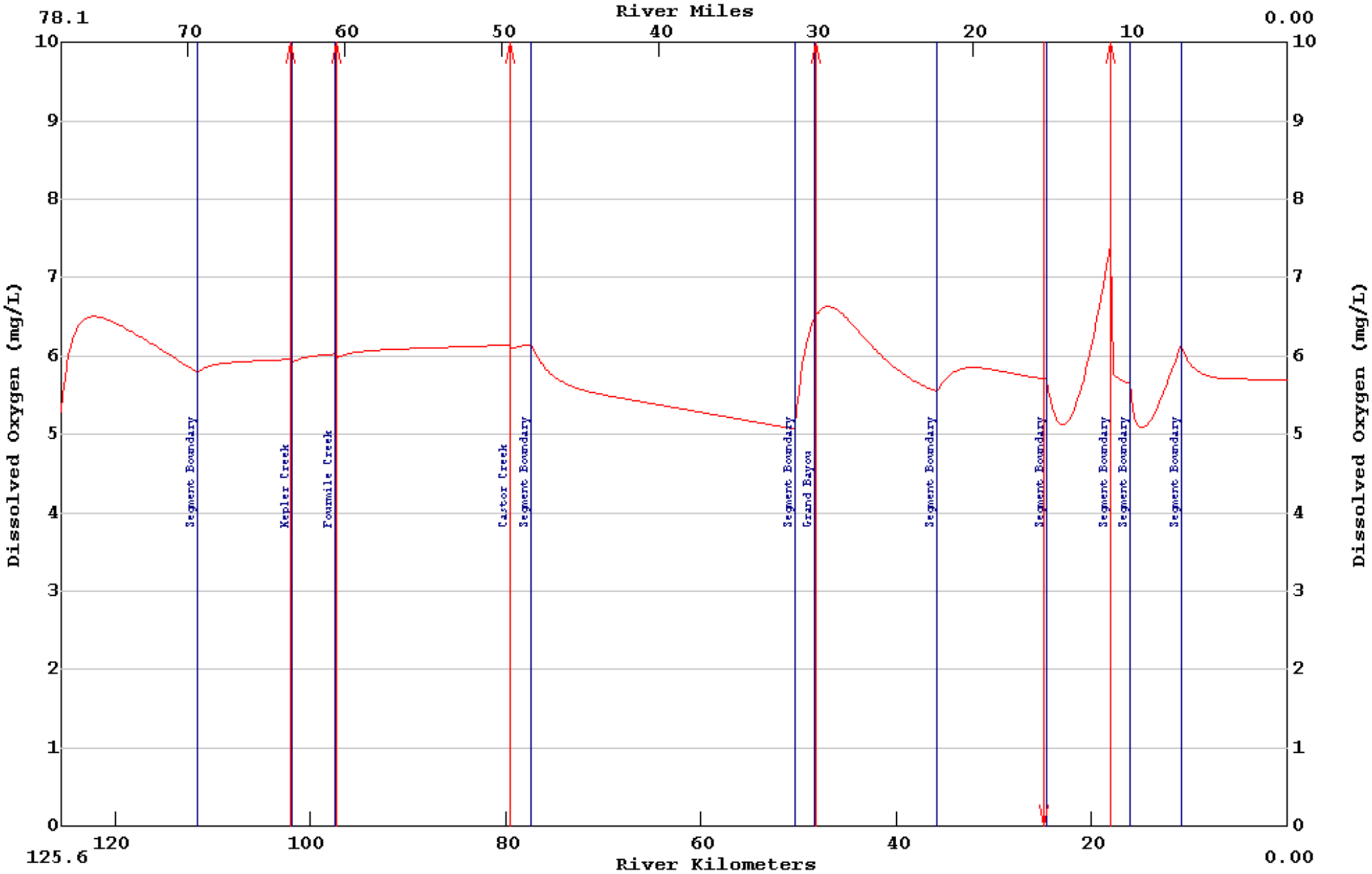
LA-QUAL Version 8.11 Run at 14:46 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 5.03 max= 7.84
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



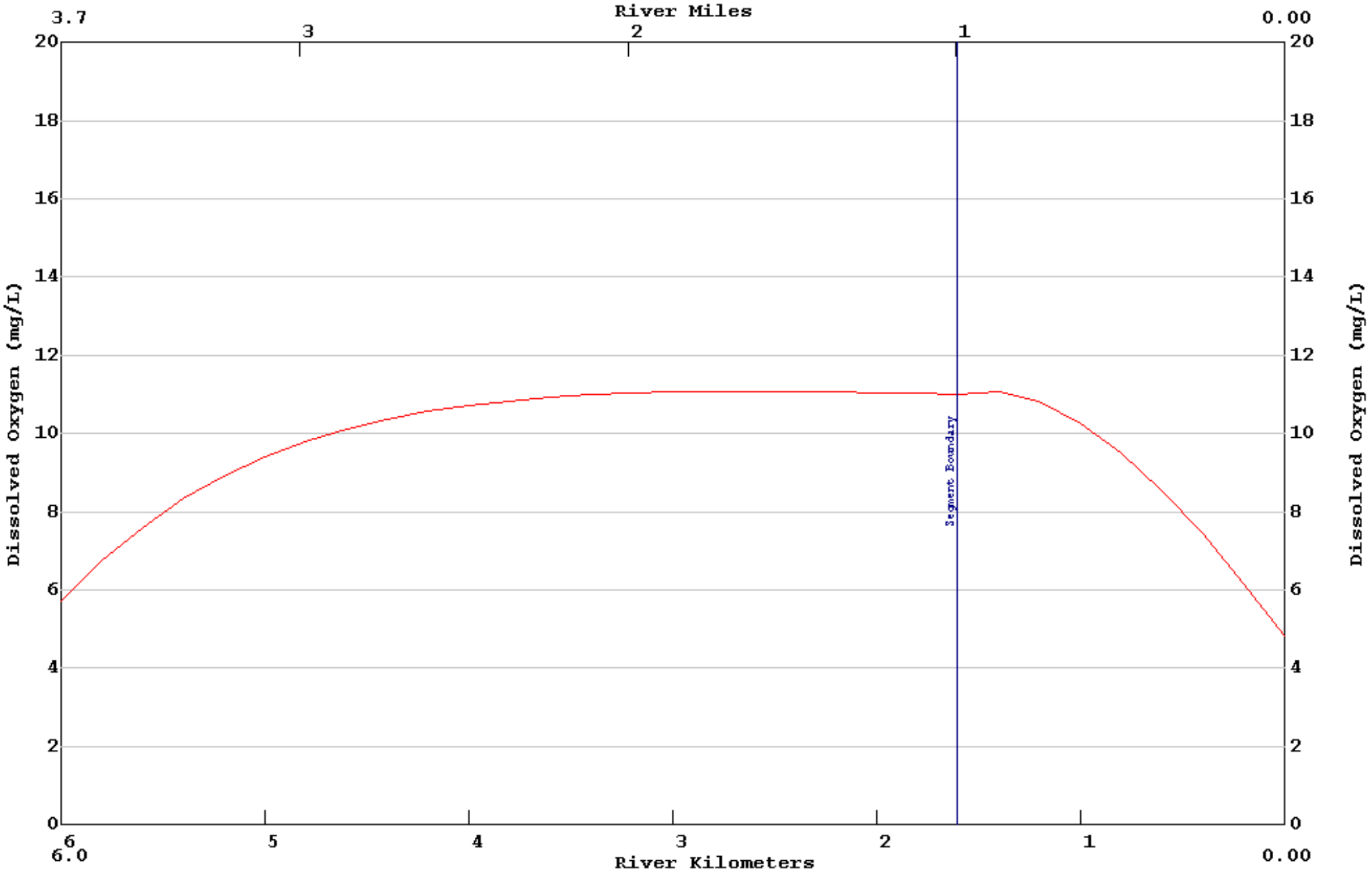
LA-QUAL Version 8.11 Run at 14:46 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 4.21 max= 6.77
Praire; Bayou Barbeaux



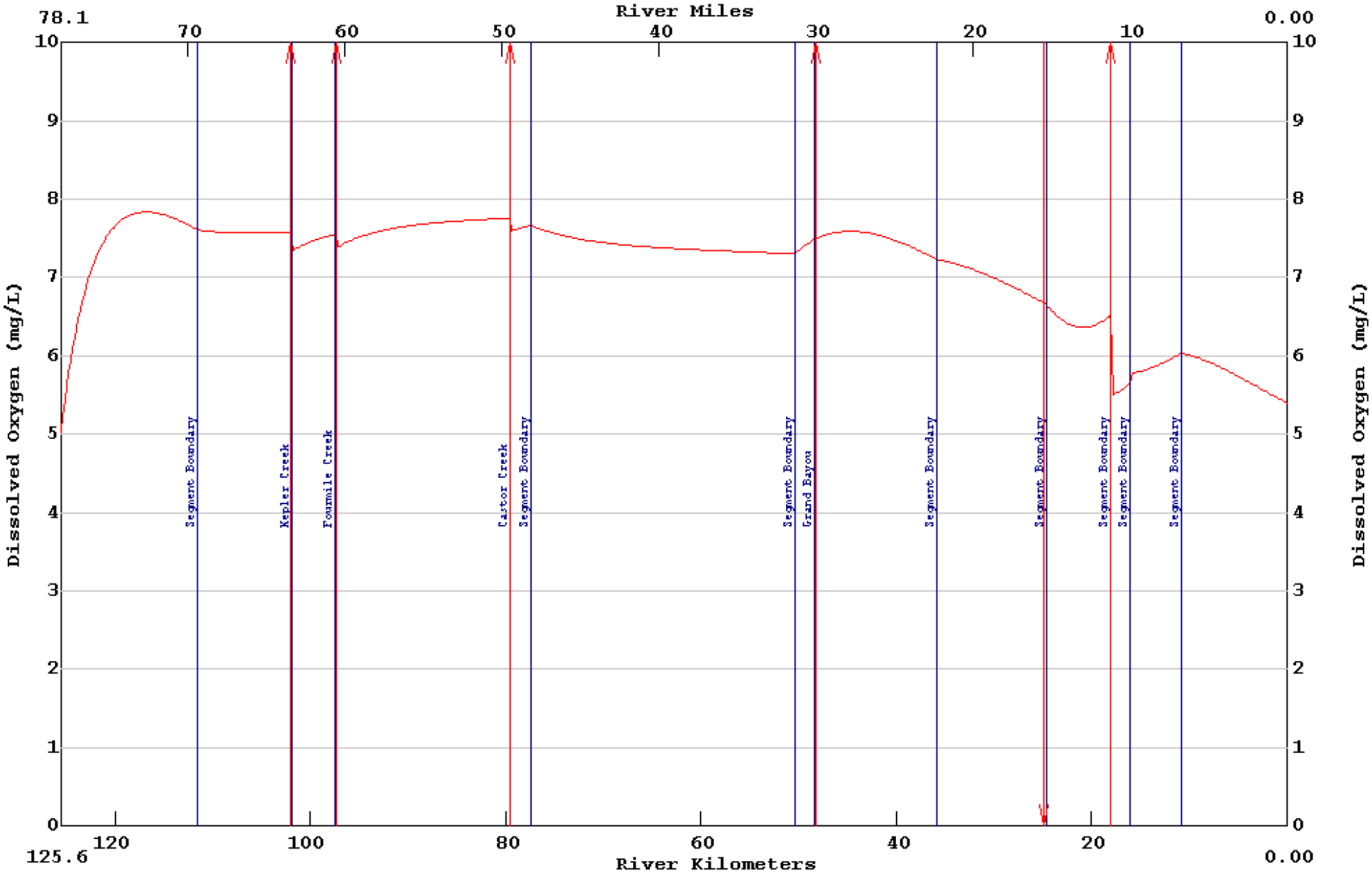
LA-QUAL Version 8.11 Run at 14:45 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 5.07 max= 7.44
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



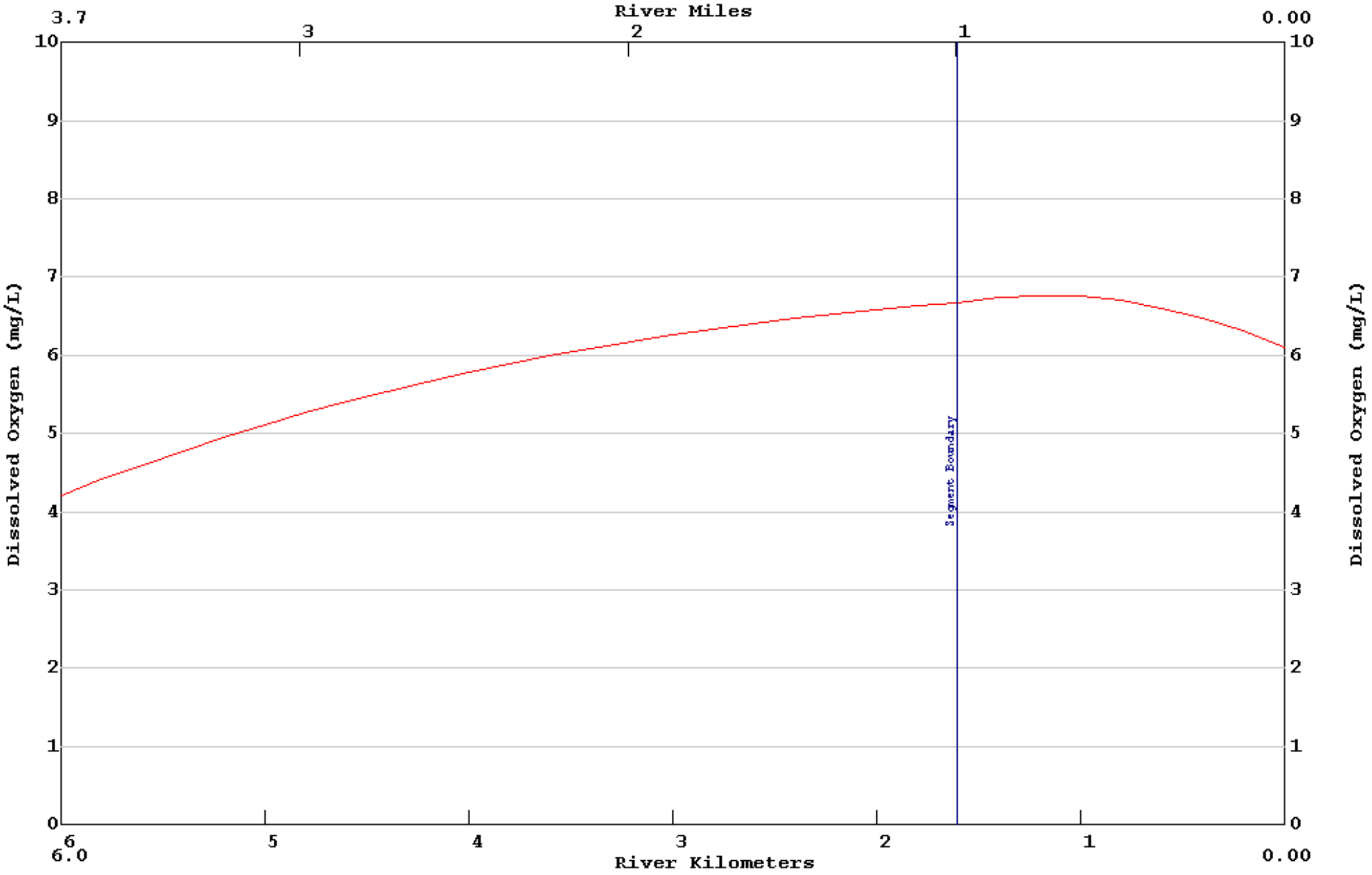
LA-QUAL Version 8.11 Run at 14:45 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 4.84 max= 11.08
Praire; Bayou Barbeaux



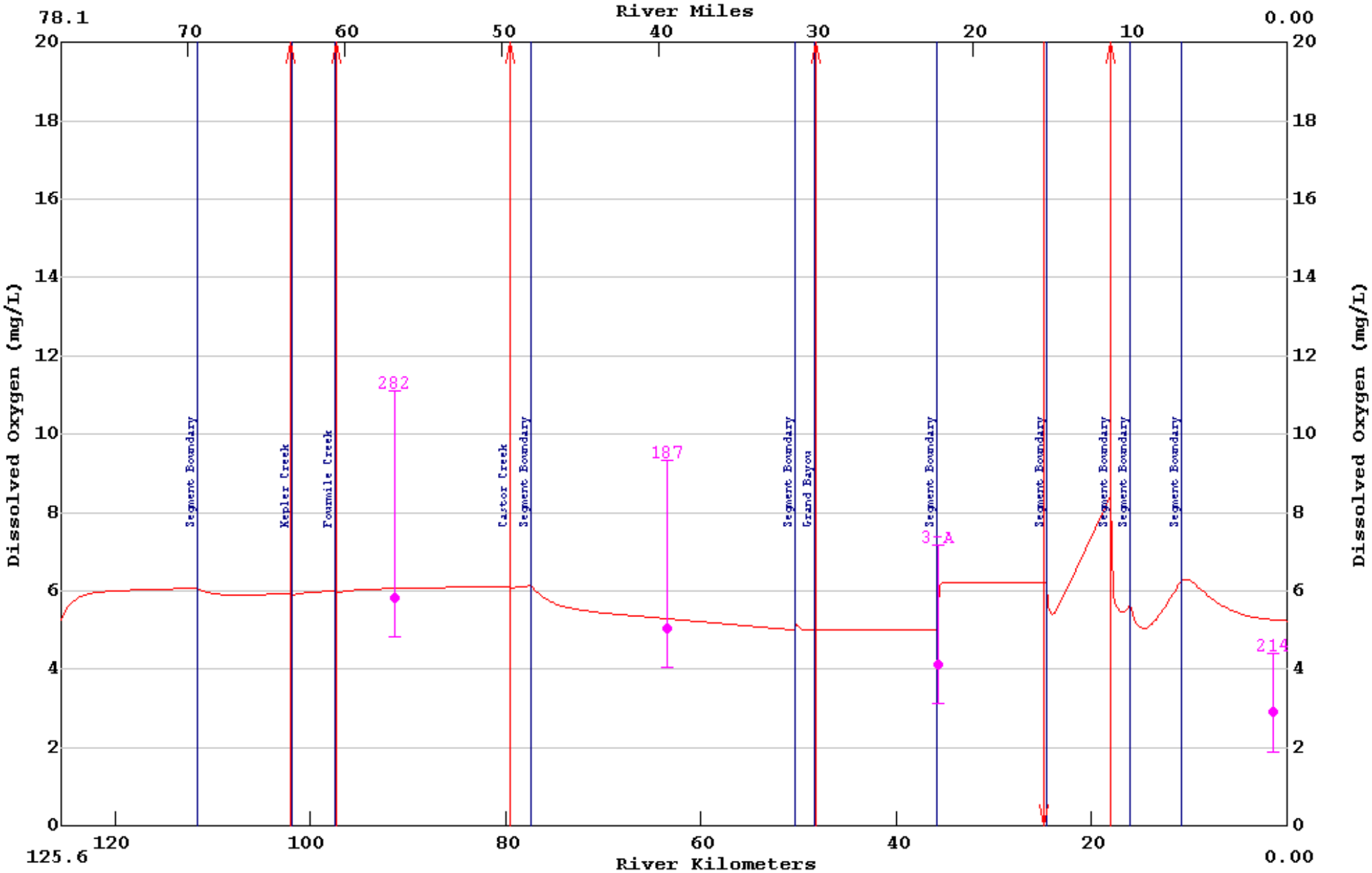
LA-QUAL Version 8.11 Run at 14:46 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 5.03 max= 7.84
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



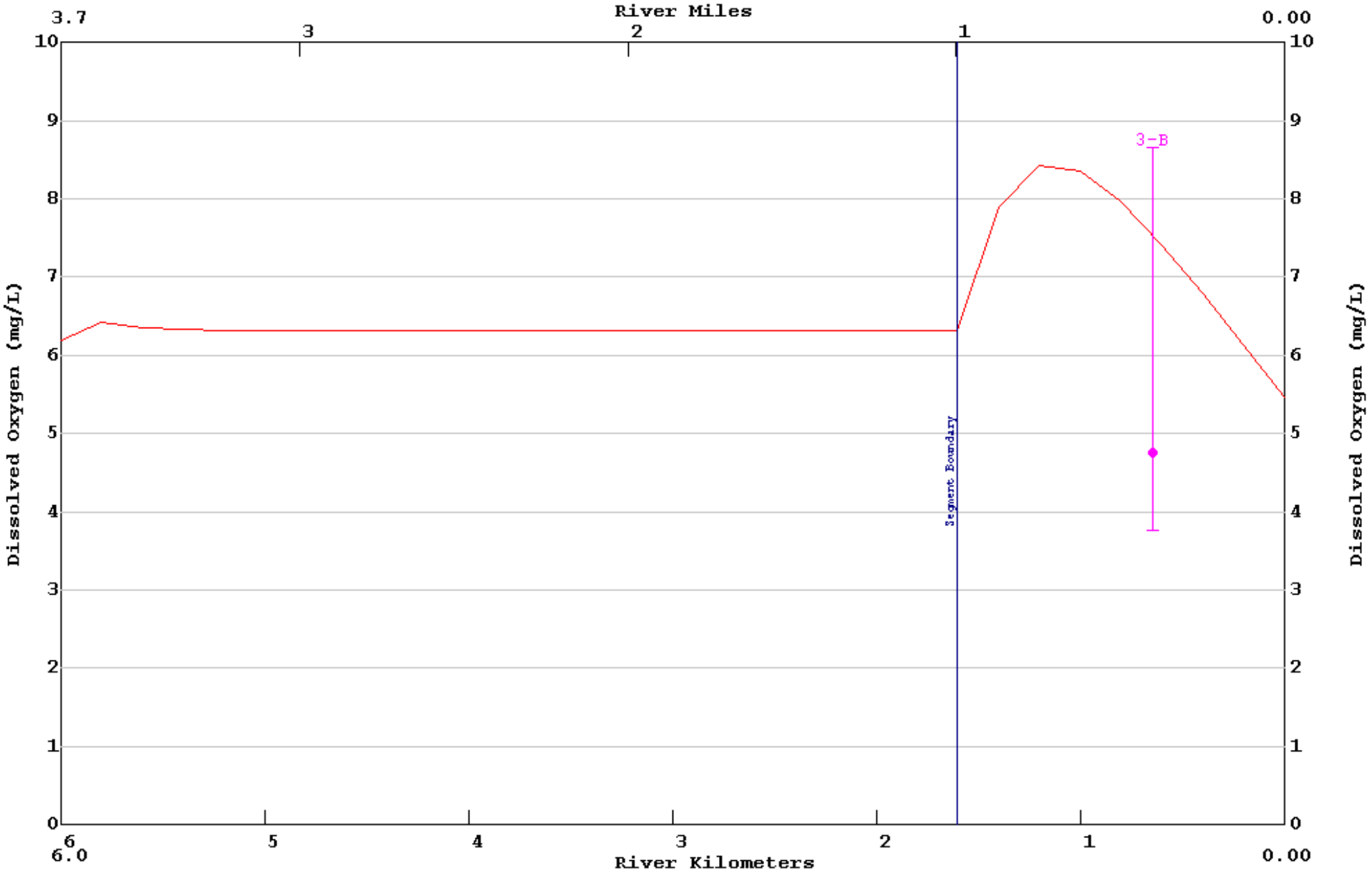
LA-QUAL Version 8.11 Run at 14:46 on 10/12/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 4.21 max= 6.77
Praire; Bayou Barbeaux



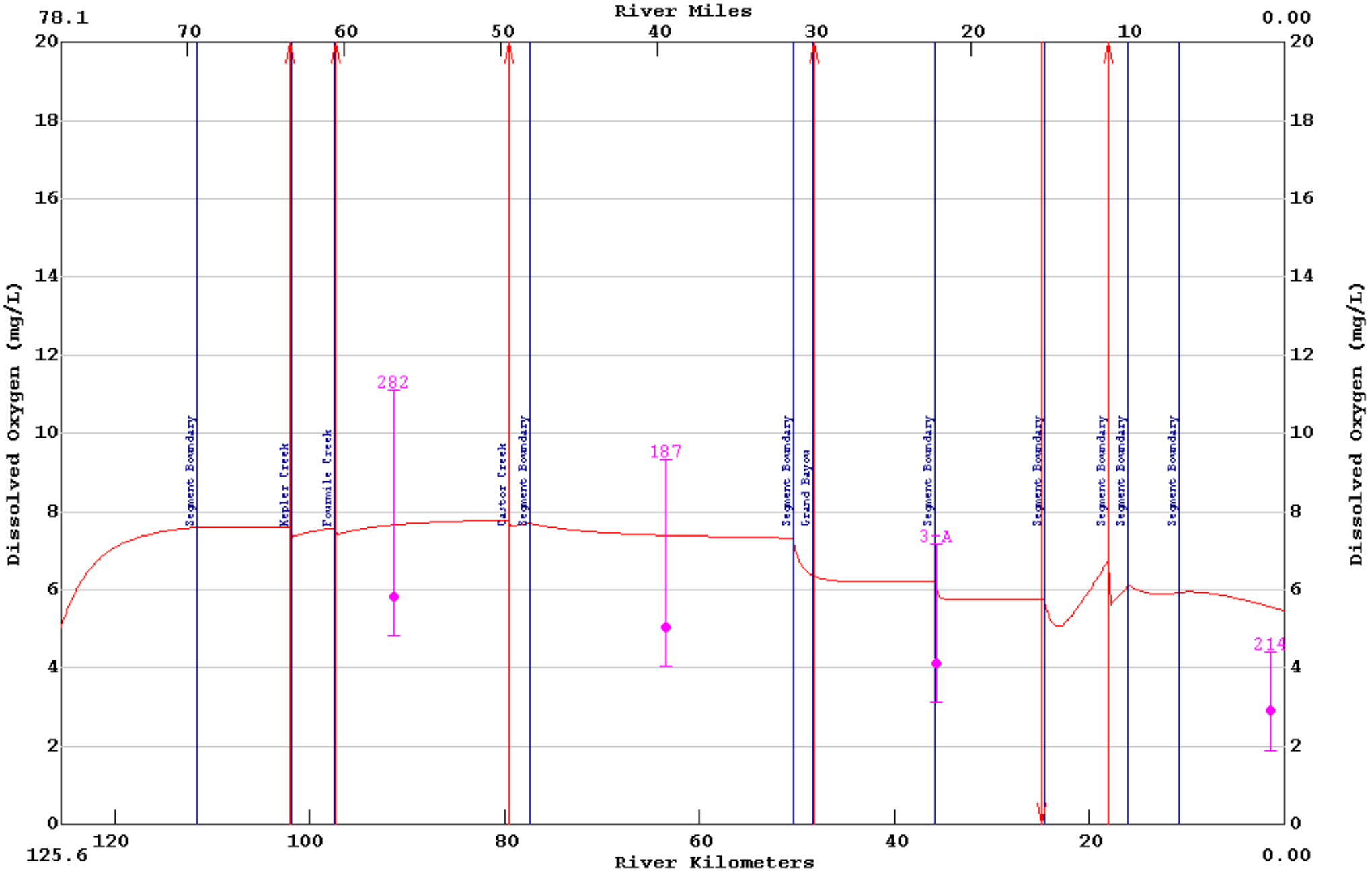
LA-QUAL Version 8.11 Run at 14:21 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 5.00 max= 8.44
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



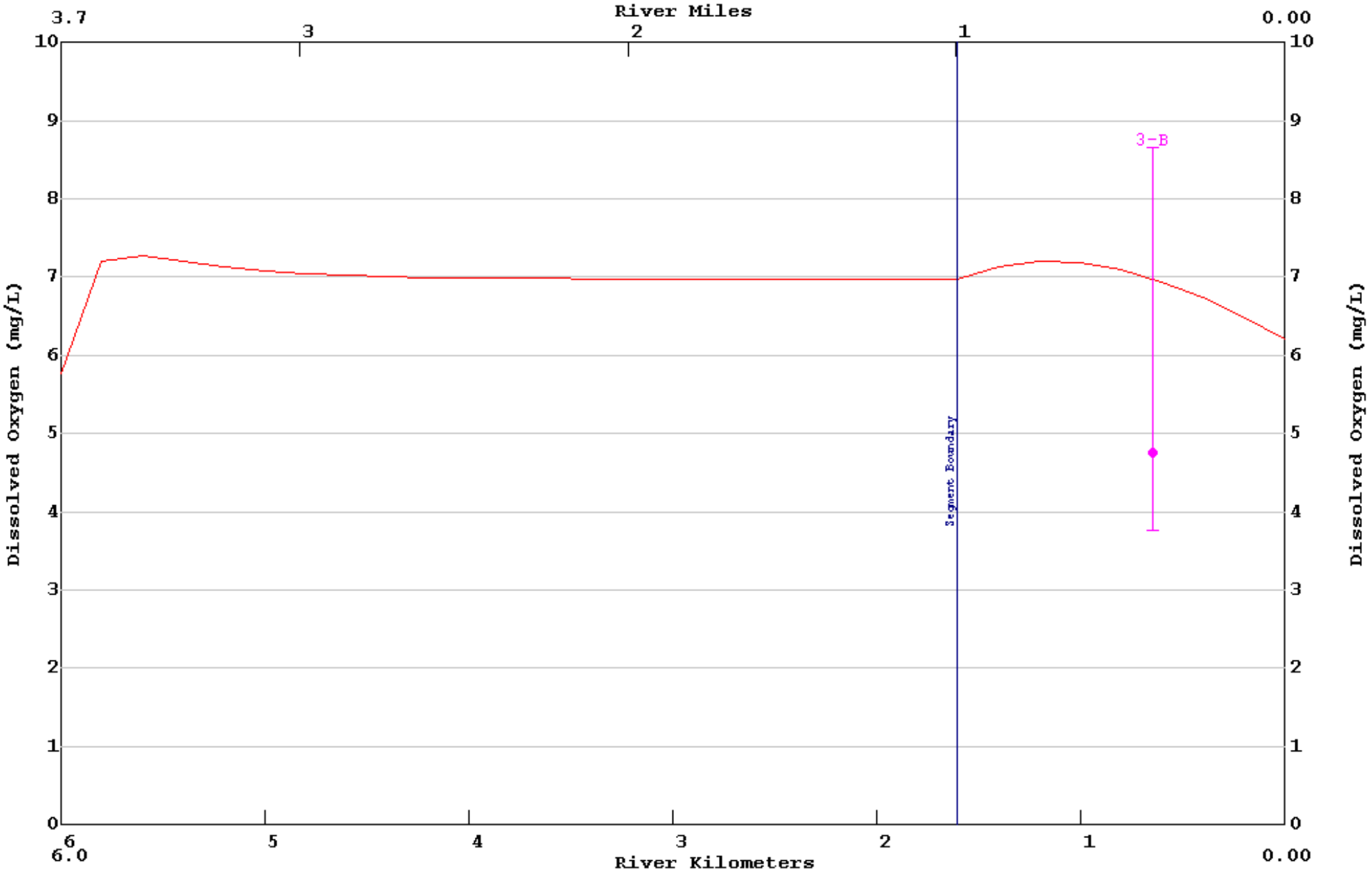
LA-QUAL Version 8.11 Run at 14:21 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake summer proj.txt
Summer Projection min= 5.46 max= 8.42
Praire; Bayou Barbeaux



LA-QUAL Version 8.11 Run at 14:22 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 5.03 max= 7.79
Black Lake By; Black - Clear Lk; Black Lake By; Saline By



LA-QUAL Version 8.11 Run at 14:22 on 10/19/2007 File D:\comp_models\LA-QUAL_8p11\Black Lake winter proj.txt
Winter Projection min= 5.76 max= 7.28
Praire; Bayou Barbeaux



APPENDIX N

Printout of Model Output for Projection

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is D:\Black Lake summer proj.txt
Output produced at 16:51 on 10/16/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
TITLE02        Summer Projection
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        ALGAE OXYGEN PROD                 =        0.02600 mg O/ug chl a/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

THETA       NH3 DECA       1.07000
ENDATA04
```

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

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  BL  Black Lake Bayou            125.60  TO  111.60  0.2000   14.00    70      1    70
REACH ID    2  BL  Black Lake Bayou            111.60  TO   77.40  0.2000   34.20   171     71   241
REACH ID    3  BL  Black Lake Bayou             77.40  TO   50.40  0.2000   27.00   135    242   376
REACH ID    4  BL  Black Lake                  50.40  TO   35.80  0.2000   14.60    73    377   449
REACH ID    5  CL  Clear Lake                  35.80  TO   24.60  0.2000   11.20    56    450   505
REACH ID    6  PA  Black Lake Bayou            24.60  TO   18.00  0.2000    6.60    33    506   538
REACH ID    7  BB  Saline Bayou                18.00  TO   16.00  0.2000    2.00    10    539   548
REACH ID    8  BL  Praire                      6.00  TO    1.60  0.2000    4.40    22    549   570
REACH ID    9  SB  Bayou Baubeaux              1.60  TO    0.00  0.2000    1.60     8    571   578
REACH ID   10  SB  Saline Bayou               16.00  TO   10.80  0.2000    5.20    26    579   604
REACH ID   11  SB  Saline Bayou               10.80  TO    0.00  0.2000   10.80    54    605   658
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  BL    11.100     0.120     0.000     1.900     0.450     0.000   0.00000   0.000
HYDR-1      2  BL    11.900     0.120     0.000     1.510     0.450     0.000   0.00000   0.000
HYDR-1      3  BL    13.800     0.120     0.000     1.660     0.450     0.000   0.00000   0.000
HYDR-1      4  BL     0.000     0.000  1297.000     0.000     0.000     1.520   0.00000   0.000
HYDR-1      5  CL     0.000     0.000  1699.000     0.000     0.000     4.970   0.00000   0.000
HYDR-1      6  PA     0.000     0.000   110.000     0.000     0.000     5.680   0.00000   0.000
HYDR-1      7  BB     0.000     0.000   110.000     0.000     0.000     5.680   0.00000   0.000
HYDR-1      8  BL     0.000     0.000  2604.000     0.000     0.000     0.910   0.00000   0.000
HYDR-1      9  SB     0.000     0.000    61.000     0.000     0.000     3.120   0.00000   0.000
```

```
HYDR-1     10  SB     0.000     0.000    50.560     0.000     0.000     4.570    0.00000  0.000
HYDR-1     11  SB     0.000     0.000    61.520     0.000     0.000     4.570    0.00000  0.000
ENDATA09

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

CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                RANGE      "A"         "B"         "C"         "D"

ENDATA10

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

CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2    PHOS    CHL A    MACRO

INITIAL        1  BL     27.70    0.00    7.08    0.05    0.00    0.00   20.00    0.00
INITIAL        2  BL     27.70    0.00    7.08    0.06    0.00    0.00   20.00    0.00
INITIAL        3  BL     27.70    0.00    7.08    0.10    0.00    0.00   20.00    0.00
INITIAL        4  BL     30.70    0.00    6.72    0.05    0.00    0.00   20.00    0.00
INITIAL        5  CL     30.70    0.00    6.72    0.05    0.00    0.00   20.00    0.00
INITIAL        6  PA     30.70    0.00    6.72    0.05    0.00    0.00   20.00    0.00
INITIAL        7  BB     30.70    0.00    6.72    0.05    0.00    0.00   34.00    0.00
INITIAL        8  BL     30.70    0.00    6.72    0.05    0.00    0.00   75.00    0.00
INITIAL        9  SB     30.70    0.00    6.72    0.05    0.00    0.00   75.00    0.00
INITIAL       10  SB     31.50    0.00    6.63    0.05    0.00    0.00   42.00    0.00
INITIAL       11  SB     31.50    0.00    6.63    0.05    0.00    0.00   50.00    0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                    BOD    ANAER                BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2  BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                     g/m²/d  per day     m/d         per day  per day     m/d         per day

COEFF-1    1  BL  15 LOUISIANA    0.000   0.000   0.000   1.452   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    2  BL  15 LOUISIANA    0.000   0.000   0.000   1.617   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    3  BL  15 LOUISIANA    0.000   0.000   0.000   1.980   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    4  BL  20 K2=a/D       0.800   0.000   0.000   1.501   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    5  CL  20 K2=a/D       0.800   0.000   0.000   1.535   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    6  PA  20 K2=a/D       0.800   0.000   0.000   2.243   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    7  BB  20 K2=a/D       0.800   0.000   0.000   3.895   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    8  BL  20 K2=a/D       0.800   0.000   0.000   1.518   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    9  SB  20 K2=a/D       0.800   0.000   0.000   1.311   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   10  SB  20 K2=a/D       0.800   0.000   0.000   3.690   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   11  SB  20 K2=a/D       0.800   0.000   0.000   3.813   0.060   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  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        2  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        3  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        4  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        5  CL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        6  PA     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        7  BB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        8  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        9  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       10  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       11  SB     0.020    0.000    0.000     0.110    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  BL     0.00000    0.03280    27.70     0.00     0.00     0.00  0.00234  0.00000
INCR-1         2  BL     0.00000    0.08020    27.70     0.00     0.00     0.00  0.00235  0.00000
INCR-1         3  BL     0.00000    0.06330    27.70     0.00     0.00     0.00  0.00234  0.00000
INCR-1         4  BL     0.00000    0.03420    30.70     0.00     0.00     0.00  0.00234  0.00000
INCR-1         5  CL     0.00000    0.02630    30.70     0.00     0.00     0.00  0.00235  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  BL      5.30     1.32     1.32     0.13     0.05     0.00
INCR-2         2  BL      5.30     1.32     1.32     0.13     0.05     0.00
INCR-2         3  BL      5.30     1.32     1.32     0.13     0.05     0.00
INCR-2         4  BL      4.92     1.38     1.38     0.14     0.05     0.00
INCR-2         5  CL      4.92     1.38     1.38     0.14     0.05     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   BL       13.20      0.99      0.00      0.00      0.00      0.00
NONPOINT        2   BL       39.60      1.52      0.00      0.00      0.00      0.00
NONPOINT        3   BL       19.80     13.50      0.00      0.00      0.00      0.00
NONPOINT        4   BL    10902.00    752.00      0.00      0.00      0.00      0.00
NONPOINT        5   CL    35880.00   2484.00      0.00      0.00      0.00      0.00
NONPOINT        6   PA     1553.00    107.00      0.00      0.00      0.00      0.00
NONPOINT        7   BB      738.00     45.10      0.00      0.00      0.00      0.00
NONPOINT        8   BL    10695.00    276.00      0.00      0.00      0.00      0.00
NONPOINT        9   SB      566.00     10.40      0.00      0.00      0.00      0.00
NONPOINT       10   SB      574.00     38.50      0.00      0.00      0.00      0.00
NONPOINT       11   SB     2440.00    107.00      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     Black Lake Bayou       0   0.05400    1.907   27.70     0.00     0.000     0.000   0.00
HDWTR-1       549     Praire                 0   0.20300    7.168   30.70     0.00     0.000     0.000   0.00
ENDATA20

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

CARD TYPE     ELEMENT   NAME                     DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                              mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2         1     Black Lake Bayou          5.24      1.69      0.91      0.15      0.00      0.00
HDWTR-2       549     Praire                    6.20      3.87      1.06      0.12      0.00      0.00
ENDATA21

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

CARD TYPE     ELEMENT   NAME                     PHOS     CHL A      COLI      NCM
                                              mg/L      mg/L      mg/L      mg/L

HDWTR-3         1     Black Lake Bayou          0.00     20.00      0.00      0.00
HDWTR-3       549     Praire                    0.00     20.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$
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CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
          ELEMENT  ELEMENT     KILOM

JUNCTION        579     548      16.00     Clear Lake and Praire
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       1    125.60  NPS Letherman Creek    0.05600    1.97740    1.278   27.70     0.00     0.000     0.000
WSTLD-1     119     102.00  NPS Kepler Creek       0.02300    0.81215    0.525   27.70     0.00     0.000     0.000
WSTLD-1     142      97.40  NPS FourMile Creek     0.01600    0.56497    0.365   27.70     0.00     0.000     0.000
WSTLD-1     231      79.60  NPS Castor Creek       0.01800    0.63559    0.411   27.70     0.00     0.000     0.000
WSTLD-1     388      48.20  NPS Grand Bayou        0.00300    0.10593    0.068   30.70     0.00     0.000     0.000
WSTLD-1     505      24.80  NPS Clear Lake out    -0.20300   -7.16808   -4.634   30.70     0.00     0.000     0.000
WSTLD-1     539      18.00  NPS Saline Lake        0.36040   12.72599    8.226   31.70     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         1    NPS Letherman Creek       5.23     1.72     0.00     0.92     0.15     0.00     0.05     0.00
WSTLD-2       119    NPS Kepler Creek          5.55     1.72     0.00     0.92     0.15     0.00     0.05     0.00
WSTLD-2       142    NPS FourMile Creek        5.30     1.72     0.00     0.92     0.15     0.00     0.05     0.00
WSTLD-2       231    NPS Castor Creek          5.30     1.72     0.00     0.92     0.15     0.00     0.05     0.00
WSTLD-2       388    NPS Grand Bayou           4.90     1.79     0.00     0.97     0.15     0.00     0.05     0.00
WSTLD-2       505    NPS Clear Lake out        6.20     3.87     0.00     1.06     0.12     0.00     0.05     0.00
WSTLD-2       539    NPS Saline Lake           4.72     2.13     0.00     1.15     0.18     0.00     0.05     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

WSTLD-3         1    NPS Letherman Creek       0.00    20.00      0.00      0.00
WSTLD-3       119    NPS Kepler Creek          0.00    20.00      0.00      0.00
WSTLD-3       142    NPS FourMile Creek        0.00    20.00      0.00      0.00
WSTLD-3       231    NPS Castor Creek          0.00    20.00      0.00      0.00
WSTLD-3       388    NPS Grand Bayou           0.00    20.00      0.00      0.00
WSTLD-3       505    NPS Clear Lake out        0.00    20.00      0.00      0.00
WSTLD-3       539    NPS Saline Lake           0.00    20.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                  CONCENTRATION
```

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 = 9
PLOT RCH 1 2 3 4 5 6 7 10 11
NUMBER OF REACHES IN PLOT 1 = 2
PLOT RCH 8 9
ENDATA30

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

OVERLAY 1 Main.OVL :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL :Praire; Bayou Barbeaux
ENDATA31

.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 4 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 Summer Projection for Black Lake Bayou, Clear Lake, and
mg/L Summer Projection

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

BL	1	1	5.36	5.46	5.54	5.61	5.67	5.72	5.76	5.80	5.83	5.85
BL	1	11	5.87	5.89	5.91	5.92	5.93	5.94	5.95	5.96	5.97	5.97
BL	1	21	5.98	5.98	5.99	5.99	5.99	6.00	6.00	6.00	6.00	6.01
BL	1	31	6.01	6.01	6.01	6.01	6.02	6.02	6.02	6.02	6.02	6.03
BL	1	41	6.03	6.03	6.03	6.03	6.03	6.04	6.04	6.04	6.04	6.04
BL	1	51	6.04	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.06	6.06
BL	1	61	6.06	6.06	6.06	6.06	6.06	6.07	6.07	6.07	6.07	6.07
BL	2	71	6.04	6.02	6.00	5.98	5.96	5.95	5.94	5.93	5.93	5.92
BL	2	81	5.92	5.91	5.91	5.91	5.90	5.90	5.90	5.90	5.90	5.90
BL	2	91	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.91	5.91
BL	2	101	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.92	5.92
BL	2	111	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.93	5.89	5.91
BL	2	121	5.92	5.93	5.93	5.94	5.95	5.95	5.96	5.96	5.97	5.97
BL	2	131	5.98	5.98	5.98	5.98	5.99	5.99	5.99	5.99	5.99	6.00
BL	2	141	6.00	5.96	5.97	5.98	5.99	5.99	6.00	6.00	6.01	6.01
BL	2	151	6.02	6.02	6.03	6.03	6.03	6.04	6.04	6.04	6.04	6.05
BL	2	161	6.05	6.05	6.05	6.05	6.05	6.06	6.06	6.06	6.06	6.06
BL	2	171	6.06	6.06	6.06	6.07	6.07	6.07	6.07	6.07	6.07	6.07
BL	2	181	6.07	6.07	6.08	6.08	6.08	6.08	6.08	6.08	6.08	6.08
BL	2	191	6.08	6.08	6.08	6.09	6.09	6.09	6.09	6.09	6.09	6.09
BL	2	201	6.09	6.09	6.09	6.10	6.10	6.10	6.10	6.10	6.10	6.10
BL	2	211	6.10	6.10	6.10	6.10	6.11	6.11	6.11	6.11	6.11	6.11
BL	2	221	6.11	6.11	6.11	6.11	6.11	6.11	6.12	6.12	6.12	6.12
BL	2	231	6.07	6.08	6.09	6.10	6.10	6.11	6.11	6.12	6.12	6.13
BL	2	241	6.13									
BL	3	242	6.07	6.01	5.96	5.92	5.88	5.84	5.81	5.78	5.75	5.72
BL	3	252	5.70	5.68	5.66	5.64	5.63	5.61	5.60	5.58	5.57	5.56
BL	3	262	5.55	5.54	5.53	5.52	5.52	5.51	5.50	5.49	5.49	5.48
BL	3	272	5.47	5.47	5.46	5.46	5.45	5.45	5.44	5.43	5.43	5.42
BL	3	282	5.42	5.41	5.41	5.41	5.40	5.40	5.39	5.39	5.38	5.38
BL	3	292	5.37	5.37	5.36	5.36	5.35	5.35	5.35	5.34	5.34	5.33
BL	3	302	5.33	5.32	5.32	5.32	5.31	5.31	5.30	5.30	5.29	5.29
BL	3	312	5.28	5.28	5.28	5.27	5.27	5.26	5.26	5.25	5.25	5.25
BL	3	322	5.24	5.24	5.23	5.23	5.22	5.22	5.21	5.21	5.21	5.20
BL	3	332	5.20	5.19	5.19	5.18	5.18	5.17	5.17	5.17	5.16	5.16
BL	3	342	5.15	5.15	5.14	5.14	5.13	5.13	5.13	5.12	5.12	5.11
BL	3	352	5.11	5.10	5.10	5.09	5.09	5.09	5.08	5.08	5.07	5.07
BL	3	362	5.06	5.06	5.05	5.05	5.05	5.04	5.04	5.03	5.03	5.02
BL	3	372	5.02	5.01	5.01	5.01	5.00					
BL	4	377	5.16	5.09	5.04	5.02	5.01	5.00	5.00	5.00	5.00	5.00
BL	4	387	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	397	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	407	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	417	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	427	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	437	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
BL	4	447	5.00	5.00	5.00							
CL	5	450	6.09	6.19	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
CL	5	460	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
CL	5	470	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
CL	5	480	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20

CL	5	490	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
CL	5	500	6.20	6.20	6.20	6.20	6.20	6.20				
PA	6	506	5.62	5.42	5.39	5.43	5.51	5.60	5.71	5.81	5.91	6.02
PA	6	516	6.12	6.23	6.33	6.44	6.54	6.65	6.76	6.86	6.97	7.07
PA	6	526	7.18	7.28	7.39	7.49	7.60	7.70	7.81	7.91	8.02	8.12
PA	6	536	8.23	8.33	8.44							
BB	7	539	5.88	5.73	5.61	5.52	5.47	5.45	5.47	5.51	5.57	5.66
SB	10	579	5.42	5.28	5.18	5.11	5.07	5.04	5.04	5.05	5.07	5.11
SB	10	589	5.16	5.21	5.27	5.33	5.40	5.47	5.54	5.62	5.70	5.78
SB	10	599	5.86	5.94	6.02	6.10	6.18	6.26				
SB	11	605	6.28	6.29	6.28	6.27	6.24	6.21	6.17	6.13	6.09	6.04
SB	11	615	6.00	5.96	5.91	5.87	5.83	5.79	5.76	5.72	5.69	5.65
SB	11	625	5.62	5.60	5.57	5.54	5.52	5.50	5.48	5.46	5.44	5.42
SB	11	635	5.41	5.39	5.38	5.37	5.35	5.34	5.33	5.32	5.32	5.31
SB	11	645	5.30	5.29	5.29	5.28	5.27	5.27	5.26	5.26	5.25	5.25
SB	11	655	5.25	5.24	5.24	5.24						
BL	8	549	6.42	6.35	6.33	6.32	6.32	6.32	6.32	6.32	6.32	6.32
BL	8	559	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32
BL	8	569	6.32	6.32								
SB	9	571	7.90	8.42	8.36	7.97	7.42	6.79	6.13	5.46		

INTERMEDIATE REPORT
Effective BOD
mg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.71	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
BL	1	11	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69
BL	1	21	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
BL	1	31	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.67	1.67
BL	1	41	1.67	1.67	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66
BL	1	51	1.66	1.66	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.65
BL	1	61	1.65	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.63	1.63
BL	2	71	1.64	1.64	1.65	1.65	1.65	1.66	1.66	1.66	1.67	1.67
BL	2	81	1.68	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70
BL	2	91	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.73	1.73
BL	2	101	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.74	1.75	1.75
BL	2	111	1.75	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	121	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	131	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	141	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
BL	2	151	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.74	1.74	1.74
BL	2	161	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
BL	2	171	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
BL	2	181	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.72	1.72	1.72
BL	2	191	1.72	1.72	1.72	1.72	1.71	1.71	1.71	1.71	1.71	1.71
BL	2	201	1.71	1.71	1.71	1.71	1.71	1.70	1.70	1.70	1.70	1.70
BL	2	211	1.70	1.70	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.69

BL	2	221	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68	1.68	1.68
BL	2	231	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.67	1.67	1.67
BL	2	241	1.67									
BL	3	242	1.66	1.66	1.65	1.64	1.63	1.63	1.62	1.61	1.60	1.60
BL	3	252	1.59	1.58	1.58	1.57	1.56	1.56	1.55	1.54	1.54	1.53
BL	3	262	1.52	1.52	1.51	1.50	1.50	1.49	1.49	1.48	1.47	1.47
BL	3	272	1.46	1.46	1.45	1.44	1.44	1.43	1.43	1.42	1.41	1.41
BL	3	282	1.40	1.40	1.39	1.39	1.38	1.38	1.37	1.37	1.36	1.35
BL	3	292	1.35	1.34	1.34	1.33	1.33	1.32	1.32	1.31	1.31	1.30
BL	3	302	1.30	1.29	1.29	1.28	1.28	1.28	1.27	1.27	1.26	1.26
BL	3	312	1.25	1.25	1.24	1.24	1.23	1.23	1.23	1.22	1.22	1.21
BL	3	322	1.21	1.20	1.20	1.20	1.19	1.19	1.18	1.18	1.18	1.17
BL	3	332	1.17	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.13
BL	3	342	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.10
BL	3	352	1.09	1.09	1.09	1.08	1.08	1.08	1.07	1.07	1.07	1.06
BL	3	362	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.03	1.03
BL	3	372	1.03	1.03	1.02	1.02	1.02					
BL	4	377	2.63	3.32	3.63	3.76	3.82	3.84	3.85	3.86	3.86	3.86
BL	4	387	3.86	3.85	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	397	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	407	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	417	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	427	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	437	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	447	3.86	3.86	3.86							
CL	5	450	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	460	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	470	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	480	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	490	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	500	3.87	3.87	3.87	3.87	3.87	3.87				
PA	6	506	3.86	3.85	3.85	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	516	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	526	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	536	3.84	3.84	3.84							
BB	7	539	3.40	3.92	4.34	4.66	4.92	5.11	5.27	5.39	5.48	5.55
SB	10	579	7.35	7.17	7.01	6.85	6.71	6.58	6.45	6.34	6.23	6.13
SB	10	589	6.03	5.94	5.86	5.78	5.71	5.64	5.58	5.52	5.47	5.42
SB	10	599	5.37	5.32	5.28	5.24	5.21	5.17				
SB	11	605	5.39	5.59	5.77	5.94	6.10	6.24	6.37	6.49	6.60	6.71
SB	11	615	6.80	6.89	6.97	7.04	7.11	7.17	7.23	7.28	7.33	7.38
SB	11	625	7.42	7.46	7.49	7.52	7.55	7.58	7.61	7.63	7.65	7.67
SB	11	635	7.69	7.70	7.72	7.73	7.75	7.76	7.77	7.78	7.79	7.80
SB	11	645	7.81	7.81	7.82	7.83	7.83	7.84	7.84	7.85	7.85	7.85
SB	11	655	7.86	7.86	7.86	7.87						
BL	8	549	6.97	7.65	7.80	7.83	7.84	7.84	7.84	7.84	7.84	7.84
BL	8	559	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
BL	8	569	7.84	7.84								
SB	9	571	9.24	10.32	11.15	11.78	12.25	12.61	12.87	13.06		

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.71	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
BL	1	11	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69
BL	1	21	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
BL	1	31	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.67	1.67
BL	1	41	1.67	1.67	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66
BL	1	51	1.66	1.66	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.65
BL	1	61	1.65	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.63	1.63
BL	2	71	1.64	1.64	1.65	1.65	1.65	1.66	1.66	1.66	1.67	1.67
BL	2	81	1.68	1.68	1.68	1.69	1.69	1.69	1.69	1.70	1.70	1.70
BL	2	91	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.73	1.73
BL	2	101	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.74	1.75	1.75
BL	2	111	1.75	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	121	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	131	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
BL	2	141	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
BL	2	151	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.74	1.74	1.74
BL	2	161	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
BL	2	171	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
BL	2	181	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.72	1.72	1.72
BL	2	191	1.72	1.72	1.72	1.72	1.71	1.71	1.71	1.71	1.71	1.71
BL	2	201	1.71	1.71	1.71	1.71	1.71	1.70	1.70	1.70	1.70	1.70
BL	2	211	1.70	1.70	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.69
BL	2	221	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68	1.68	1.68
BL	2	231	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.67	1.67	1.67
BL	2	241	1.67									
BL	3	242	1.66	1.66	1.65	1.64	1.63	1.63	1.62	1.61	1.60	1.60
BL	3	252	1.59	1.58	1.58	1.57	1.56	1.56	1.55	1.54	1.54	1.53
BL	3	262	1.52	1.52	1.51	1.50	1.50	1.49	1.49	1.48	1.47	1.47
BL	3	272	1.46	1.46	1.45	1.44	1.44	1.43	1.43	1.42	1.41	1.41
BL	3	282	1.40	1.40	1.39	1.39	1.38	1.38	1.37	1.37	1.36	1.35
BL	3	292	1.35	1.34	1.34	1.33	1.33	1.32	1.32	1.31	1.31	1.30
BL	3	302	1.30	1.29	1.29	1.28	1.28	1.28	1.27	1.27	1.26	1.26
BL	3	312	1.25	1.25	1.24	1.24	1.23	1.23	1.23	1.22	1.22	1.21
BL	3	322	1.21	1.20	1.20	1.20	1.19	1.19	1.18	1.18	1.18	1.17
BL	3	332	1.17	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.13
BL	3	342	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.10
BL	3	352	1.09	1.09	1.09	1.08	1.08	1.08	1.07	1.07	1.07	1.06
BL	3	362	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.03	1.03
BL	3	372	1.03	1.03	1.02	1.02	1.02					
BL	4	377	2.63	3.32	3.63	3.76	3.82	3.84	3.85	3.86	3.86	3.86
BL	4	387	3.86	3.85	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	397	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	407	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	417	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86

BL	4	427	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	437	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
BL	4	447	3.86	3.86	3.86							
CL	5	450	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	460	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	470	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	480	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	490	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
CL	5	500	3.87	3.87	3.87	3.87	3.87	3.87				
PA	6	506	3.86	3.85	3.85	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	516	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	526	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84
PA	6	536	3.84	3.84	3.84							
BB	7	539	3.40	3.92	4.34	4.66	4.92	5.11	5.27	5.39	5.48	5.55
SB	10	579	7.35	7.17	7.01	6.85	6.71	6.58	6.45	6.34	6.23	6.13
SB	10	589	6.03	5.94	5.86	5.78	5.71	5.64	5.58	5.52	5.47	5.42
SB	10	599	5.37	5.32	5.28	5.24	5.21	5.17				
SB	11	605	5.39	5.59	5.77	5.94	6.10	6.24	6.37	6.49	6.60	6.71
SB	11	615	6.80	6.89	6.97	7.04	7.11	7.17	7.23	7.28	7.33	7.38
SB	11	625	7.42	7.46	7.49	7.52	7.55	7.58	7.61	7.63	7.65	7.67
SB	11	635	7.69	7.70	7.72	7.73	7.75	7.76	7.77	7.78	7.79	7.80
SB	11	645	7.81	7.81	7.82	7.83	7.83	7.84	7.84	7.85	7.85	7.85
SB	11	655	7.86	7.86	7.86	7.87						
BL	8	549	6.97	7.65	7.80	7.83	7.84	7.84	7.84	7.84	7.84	7.84
BL	8	559	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
BL	8	569	7.84	7.84								
SB	9	571	9.24	10.32	11.15	11.78	12.25	12.61	12.87	13.06		

INTERMEDIATE REPORT
Organic Nitrogen
mg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BL	1	11	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BL	1	21	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.93
BL	1	31	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	1	41	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	1	51	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	1	61	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	2	71	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	2	81	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	2	91	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BL	2	101	0.93	0.93	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.92
BL	2	111	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BL	2	121	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BL	2	131	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BL	2	141	0.92	0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.91	0.91

BL	2	151	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
BL	2	161	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
BL	2	171	0.91	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
BL	2	181	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
BL	2	191	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.89
BL	2	201	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BL	2	211	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BL	2	221	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.88	0.88
BL	2	231	0.89	0.89	0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.88
BL	2	241	0.88									
BL	3	242	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.91	0.91	0.91
BL	3	252	0.91	0.92	0.92	0.92	0.93	0.93	0.93	0.93	0.94	0.94
BL	3	262	0.94	0.94	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96
BL	3	272	0.97	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.99
BL	3	282	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01
BL	3	292	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.03	1.03	1.03
BL	3	302	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05
BL	3	312	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.07
BL	3	322	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.08	1.08	1.09
BL	3	332	1.09	1.09	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.10
BL	3	342	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12
BL	3	352	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13
BL	3	362	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
BL	3	372	1.15	1.15	1.15	1.15	1.15					
BL	4	377	1.13	1.11	1.10	1.09	1.08	1.07	1.07	1.07	1.07	1.06
BL	4	387	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	397	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	407	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	417	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	427	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	437	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	4	447	1.06	1.06	1.06							
CL	5	450	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CL	5	460	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CL	5	470	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CL	5	480	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CL	5	490	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CL	5	500	1.06	1.06	1.06	1.06	1.06	1.06				
PA	6	506	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05
PA	6	516	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
PA	6	526	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
PA	6	536	1.05	1.05	1.05							
BB	7	539	1.13	1.15	1.17	1.19	1.20	1.22	1.23	1.24	1.26	1.27
SB	10	579	1.24	1.24	1.24	1.24	1.25	1.25	1.25	1.25	1.25	1.25
SB	10	589	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
SB	10	599	1.25	1.25	1.25	1.25	1.25	1.25				
SB	11	605	1.26	1.26	1.26	1.27	1.27	1.27	1.27	1.28	1.28	1.28
SB	11	615	1.29	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31
SB	11	625	1.31	1.31	1.31	1.31	1.32	1.32	1.32	1.32	1.32	1.32
SB	11	635	1.33	1.33	1.33	1.33	1.33	1.33	1.34	1.34	1.34	1.34
SB	11	645	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35

SB	11	655	1.35	1.35	1.35	1.36						
BL	8	549	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
BL	8	559	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
BL	8	569	1.07	1.07								
SB	9	571	1.09	1.10	1.12	1.13	1.14	1.15	1.16	1.17		

INTERMEDIATE REPORT
Ammonia Nitrogen
mg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
BL	1	11	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	21	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BL	1	31	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	1	41	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	1	51	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	1	61	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	71	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	81	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	91	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	101	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12
BL	2	111	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
BL	2	121	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	131	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	141	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	151	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	2	161	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
BL	2	171	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	181	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	191	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	201	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	211	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	221	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	231	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	2	241	0.12									
BL	3	242	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	252	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	262	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	272	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	282	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	292	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	302	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
BL	3	312	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	3	322	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	3	332	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	3	342	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	3	352	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

BL	3	362	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	3	372	0.13	0.13	0.13	0.13	0.13					
BL	4	377	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
BL	4	387	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	397	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	407	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	417	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	427	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	437	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	447	0.12	0.12	0.12							
CL	5	450	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CL	5	460	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CL	5	470	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CL	5	480	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CL	5	490	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CL	5	500	0.12	0.12	0.12	0.12	0.12	0.12				
PA	6	506	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
PA	6	516	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
PA	6	526	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
PA	6	536	0.12	0.12	0.12							
BB	7	539	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SB	10	579	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SB	10	589	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SB	10	599	0.14	0.14	0.14	0.14	0.14	0.14				
SB	11	605	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SB	11	615	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SB	11	625	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15
SB	11	635	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SB	11	645	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SB	11	655	0.15	0.15	0.15	0.15						
BL	8	549	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	8	559	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	8	569	0.12	0.12								
SB	9	571	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13		

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
mg/L Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Total Nitrogen LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
mg/L Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.08	1.08	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	11	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	21	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	31	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	41	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	51	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	1	61	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	2	71	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BL	2	81	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BL	2	91	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BL	2	101	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BL	2	111	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BL	2	121	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BL	2	131	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BL	2	141	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BL	2	151	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03
BL	2	161	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BL	2	171	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BL	2	181	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BL	2	191	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BL	2	201	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01
BL	2	211	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
BL	2	221	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
BL	2	231	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
BL	2	241	1.00									
BL	3	242	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.03
BL	3	252	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06
BL	3	262	1.06	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.09
BL	3	272	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.11	1.11	1.11
BL	3	282	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13

BL	3	292	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.16
BL	3	302	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.18
BL	3	312	1.18	1.18	1.18	1.18	1.19	1.19	1.19	1.19	1.19	1.19
BL	3	322	1.20	1.20	1.20	1.20	1.20	1.21	1.21	1.21	1.21	1.21
BL	3	332	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.23	1.23	1.23
BL	3	342	1.23	1.23	1.23	1.24	1.24	1.24	1.24	1.24	1.24	1.25
BL	3	352	1.25	1.25	1.25	1.25	1.25	1.25	1.26	1.26	1.26	1.26
BL	3	362	1.26	1.26	1.26	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BL	3	372	1.28	1.28	1.28	1.28	1.28					
BL	4	377	1.26	1.24	1.23	1.22	1.21	1.20	1.20	1.19	1.19	1.19
BL	4	387	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	397	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	407	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	417	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	427	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	437	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BL	4	447	1.18	1.18	1.18							
CL	5	450	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
CL	5	460	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
CL	5	470	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
CL	5	480	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
CL	5	490	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
CL	5	500	1.18	1.18	1.18	1.18	1.18	1.18				
PA	6	506	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17
PA	6	516	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
PA	6	526	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16
PA	6	536	1.16	1.16	1.16							
BB	7	539	1.28	1.29	1.31	1.33	1.34	1.36	1.37	1.38	1.40	1.41
SB	10	579	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.39	1.39	1.39
SB	10	589	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
SB	10	599	1.39	1.39	1.39	1.39	1.39	1.39				
SB	11	605	1.40	1.40	1.40	1.40	1.41	1.41	1.41	1.42	1.42	1.42
SB	11	615	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44	1.45	1.45
SB	11	625	1.45	1.45	1.46	1.46	1.46	1.46	1.46	1.47	1.47	1.47
SB	11	635	1.47	1.47	1.48	1.48	1.48	1.48	1.48	1.48	1.49	1.49
SB	11	645	1.49	1.49	1.49	1.49	1.49	1.50	1.50	1.50	1.50	1.50
SB	11	655	1.50	1.50	1.51	1.51						
BL	8	549	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BL	8	559	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BL	8	569	1.19	1.19								
SB	9	571	1.21	1.22	1.24	1.25	1.26	1.27	1.29	1.30		

INTERMEDIATE REPORT

Chlorophyll a µg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

BL	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	41	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	51	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	61	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	161	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	171	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	181	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	191	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	201	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	211	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	221	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	231	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	241	20.00									
BL	3	242	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	252	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	262	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	272	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	282	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	292	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	302	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	312	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	322	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	332	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	342	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	352	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	362	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	372	20.00	20.00	20.00	20.00	20.00					
BL	4	377	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	387	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	397	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	407	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	417	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	427	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	437	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	447	20.00	20.00	20.00							
CL	5	450	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	460	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	470	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	480	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	490	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

CL	5	500	20.00	20.00	20.00	20.00	20.00	20.00				
PA	6	506	20.42	20.85	21.27	21.70	22.12	22.55	22.97	23.39	23.82	24.24
PA	6	516	24.67	25.09	25.52	25.94	26.36	26.79	27.21	27.64	28.06	28.48
PA	6	526	28.91	29.33	29.76	30.18	30.61	31.03	31.45	31.88	32.30	32.73
PA	6	536	33.15	33.58	34.00							
BB	7	539	34.80	35.60	36.40	37.20	38.00	38.80	39.60	40.40	41.20	42.00
SB	10	579	42.31	42.62	42.92	43.23	43.54	43.85	44.15	44.46	44.77	45.08
SB	10	589	45.38	45.69	46.00	46.31	46.62	46.92	47.23	47.54	47.85	48.15
SB	10	599	48.46	48.77	49.08	49.38	49.69	50.00				
SB	11	605	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	615	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	625	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	635	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	645	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	655	50.00	50.00	50.00	50.00						
BL	8	549	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	559	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	569	75.00	75.00								
SB	9	571	70.88	66.75	62.62	58.50	54.38	50.25	46.12	42.00		

INTERMEDIATE REPORT
Temperature
deg C

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	11	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	21	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	31	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	41	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	51	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	1	61	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	71	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	81	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	91	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	101	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	111	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	121	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	131	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	141	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	151	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	161	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	171	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	181	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	191	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	201	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	211	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	221	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70

BL	2	231	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
BL	2	241	27.70									
BL	3	242	27.72	27.74	27.77	27.79	27.81	27.83	27.86	27.88	27.90	27.92
BL	3	252	27.94	27.97	27.99	28.01	28.03	28.06	28.08	28.10	28.12	28.14
BL	3	262	28.17	28.19	28.21	28.23	28.26	28.28	28.30	28.32	28.34	28.37
BL	3	272	28.39	28.41	28.43	28.46	28.48	28.50	28.52	28.54	28.57	28.59
BL	3	282	28.61	28.63	28.66	28.68	28.70	28.72	28.74	28.77	28.79	28.81
BL	3	292	28.83	28.86	28.88	28.90	28.92	28.94	28.97	28.99	29.01	29.03
BL	3	302	29.06	29.08	29.10	29.12	29.14	29.17	29.19	29.21	29.23	29.26
BL	3	312	29.28	29.30	29.32	29.34	29.37	29.39	29.41	29.43	29.46	29.48
BL	3	322	29.50	29.52	29.54	29.57	29.59	29.61	29.63	29.66	29.68	29.70
BL	3	332	29.72	29.74	29.77	29.79	29.81	29.83	29.86	29.88	29.90	29.92
BL	3	342	29.94	29.97	29.99	30.01	30.03	30.06	30.08	30.10	30.12	30.14
BL	3	352	30.17	30.19	30.21	30.23	30.26	30.28	30.30	30.32	30.34	30.37
BL	3	362	30.39	30.41	30.43	30.46	30.48	30.50	30.52	30.54	30.57	30.59
BL	3	372	30.61	30.63	30.66	30.68	30.70					
BL	4	377	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	387	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	397	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	407	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	417	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	427	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	437	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	4	447	30.70	30.70	30.70							
CL	5	450	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
CL	5	460	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
CL	5	470	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
CL	5	480	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
CL	5	490	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
CL	5	500	30.70	30.70	30.70	30.70	30.70	30.70				
PA	6	506	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
PA	6	516	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
PA	6	526	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
PA	6	536	30.70	30.70	30.70							
BB	7	539	30.78	30.86	30.94	31.02	31.10	31.18	31.26	31.34	31.42	31.50
SB	10	579	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	10	589	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	10	599	31.50	31.50	31.50	31.50	31.50	31.50				
SB	11	605	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	11	615	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	11	625	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	11	635	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	11	645	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
SB	11	655	31.50	31.50	31.50	31.50						
BL	8	549	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	8	559	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
BL	8	569	30.70	30.70								
SB	9	571	30.80	30.90	31.00	31.10	31.20	31.30	31.40	31.50		

INTERMEDIATE REPORT

Salinity
ppt

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
km Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	125.	125.	125.	125.	125.	124.	124.	124.	124.	124.
BL	1	11	123.	123.	123.	123.	123.	122.	122.	122.	122.	122.
BL	1	21	121.	121.	121.	121.	121.	120.	120.	120.	120.	120.
BL	1	31	119.	119.	119.	119.	119.	118.	118.	118.	118.	118.
BL	1	41	117.	117.	117.	117.	117.	116.	116.	116.	116.	116.
BL	1	51	115.	115.	115.	115.	115.	114.	114.	114.	114.	114.
BL	1	61	113.	113.	113.	113.	113.	112.	112.	112.	112.	112.
BL	2	71	111.	111.	111.	111.	111.	110.	110.	110.	110.	110.
BL	2	81	109.	109.	109.	109.	109.	108.	108.	108.	108.	108.
BL	2	91	107.	107.	107.	107.	107.	106.	106.	106.	106.	106.
BL	2	101	105.	105.	105.	105.	105.	104.	104.	104.	104.	104.
BL	2	111	103.	103.	103.	103.	103.	102.	102.	102.	102.	102.
BL	2	121	101.	101.	101.	101.	101.	100.	100.	100.	100.	100.
BL	2	131	99.	99.	99.	99.	99.	98.	98.	98.	98.	98.
BL	2	141	97.	97.	97.	97.	97.	96.	96.	96.	96.	96.
BL	2	151	95.	95.	95.	95.	95.	94.	94.	94.	94.	94.

BL	2	161	93.	93.	93.	93.	93.	92.	92.	92.	92.	92.
BL	2	171	91.	91.	91.	91.	91.	90.	90.	90.	90.	90.
BL	2	181	89.	89.	89.	89.	89.	88.	88.	88.	88.	88.
BL	2	191	87.	87.	87.	87.	87.	86.	86.	86.	86.	86.
BL	2	201	85.	85.	85.	85.	85.	84.	84.	84.	84.	84.
BL	2	211	83.	83.	83.	83.	83.	82.	82.	82.	82.	82.
BL	2	221	81.	81.	81.	81.	81.	80.	80.	80.	80.	80.
BL	2	231	79.	79.	79.	79.	79.	78.	78.	78.	78.	78.
BL	2	241	77.									
BL	3	242	77.	77.	77.	77.	76.	76.	76.	76.	76.	75.
BL	3	252	75.	75.	75.	75.	74.	74.	74.	74.	74.	73.
BL	3	262	73.	73.	73.	73.	72.	72.	72.	72.	72.	71.
BL	3	272	71.	71.	71.	71.	70.	70.	70.	70.	70.	69.
BL	3	282	69.	69.	69.	69.	68.	68.	68.	68.	68.	67.
BL	3	292	67.	67.	67.	67.	66.	66.	66.	66.	66.	65.
BL	3	302	65.	65.	65.	65.	64.	64.	64.	64.	64.	63.
BL	3	312	63.	63.	63.	63.	62.	62.	62.	62.	62.	61.
BL	3	322	61.	61.	61.	61.	60.	60.	60.	60.	60.	59.
BL	3	332	59.	59.	59.	59.	58.	58.	58.	58.	58.	57.
BL	3	342	57.	57.	57.	57.	56.	56.	56.	56.	56.	55.
BL	3	352	55.	55.	55.	55.	54.	54.	54.	54.	54.	53.
BL	3	362	53.	53.	53.	53.	52.	52.	52.	52.	52.	51.
BL	3	372	51.	51.	51.	51.	50.					
BL	4	377	50.	50.	50.	50.	49.	49.	49.	49.	49.	48.
BL	4	387	48.	48.	48.	48.	47.	47.	47.	47.	47.	46.
BL	4	397	46.	46.	46.	46.	45.	45.	45.	45.	45.	44.
BL	4	407	44.	44.	44.	44.	43.	43.	43.	43.	43.	42.
BL	4	417	42.	42.	42.	42.	41.	41.	41.	41.	41.	40.
BL	4	427	40.	40.	40.	40.	39.	39.	39.	39.	39.	38.
BL	4	437	38.	38.	38.	38.	37.	37.	37.	37.	37.	36.
BL	4	447	36.	36.	36.							
CL	5	450	36.	35.	35.	35.	35.	35.	34.	34.	34.	34.
CL	5	460	34.	33.	33.	33.	33.	33.	32.	32.	32.	32.
CL	5	470	32.	31.	31.	31.	31.	31.	30.	30.	30.	30.
CL	5	480	30.	29.	29.	29.	29.	29.	28.	28.	28.	28.
CL	5	490	28.	27.	27.	27.	27.	27.	26.	26.	26.	26.
CL	5	500	26.	25.	25.	25.	25.	25.				
PA	6	506	24.	24.	24.	24.	24.	23.	23.	23.	23.	23.
PA	6	516	22.	22.	22.	22.	22.	21.	21.	21.	21.	21.
PA	6	526	20.	20.	20.	20.	20.	19.	19.	19.	19.	19.
PA	6	536	18.	18.	18.							
BB	7	539	18.	18.	17.	17.	17.	17.	17.	16.	16.	16.
SB	10	579	16.	16.	15.	15.	15.	15.	15.	14.	14.	14.
SB	10	589	14.	14.	13.	13.	13.	13.	13.	12.	12.	12.
SB	10	599	12.	12.	11.	11.	11.	11.				
SB	11	605	11.	10.	10.	10.	10.	10.	9.	9.	9.	9.
SB	11	615	9.	8.	8.	8.	8.	8.	7.	7.	7.	7.
SB	11	625	7.	6.	6.	6.	6.	6.	5.	5.	5.	5.
SB	11	635	5.	4.	4.	4.	4.	4.	3.	3.	3.	3.
SB	11	645	3.	2.	2.	2.	2.	2.	1.	1.	1.	1.
SB	11	655	1.	0.	0.	0.						

BL	8	549	6.	6.	5.	5.	5.	5.	5.	4.	4.	4.
BL	8	559	4.	4.	3.	3.	3.	3.	3.	2.	2.	2.
BL	8	569	2.	2.								
SB	9	571	1.	1.	1.	1.	1.	0.	0.	0.		

INTERMEDIATE REPORT

Flow LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and

m^3/s Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	41	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	51	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	1	61	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	71	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	81	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
BL	2	91	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	101	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	111	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	121	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	131	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	141	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	151	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	161	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	171	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	181	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	191	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	201	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	2	211	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
BL	2	221	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	231	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	2	241	0.3									
BL	3	242	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	252	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	262	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	272	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	282	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	292	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	302	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	312	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	322	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	332	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	342	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	352	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	3	362	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

BL	3	372	0.3	0.3	0.3	0.3	0.3					
BL	4	377	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BL	4	387	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	397	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	407	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	417	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	427	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	437	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BL	4	447	0.4	0.4	0.4							
CL	5	450	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
CL	5	460	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
CL	5	470	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
CL	5	480	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
CL	5	490	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
CL	5	500	0.4	0.4	0.4	0.4	0.4	0.2				
PA	6	506	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PA	6	516	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PA	6	526	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PA	6	536	0.2	0.2	0.2							
BB	7	539	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
SB	10	579	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	10	589	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	10	599	0.8	0.8	0.8	0.8	0.8	0.8				
SB	11	605	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	11	615	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	11	625	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	11	635	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	11	645	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SB	11	655	0.8	0.8	0.8	0.8						
BL	8	549	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	8	559	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BL	8	569	0.2	0.2								
SB	9	571	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		

INTERMEDIATE REPORT

Dispersion LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and

m^2/s Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	241	0.0									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	342	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	372	0.0	0.0	0.0	0.0	0.0					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT
Advective Velocity LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
m/s Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	241	0.0									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	342	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	372	0.0	0.0	0.0	0.0	0.0					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Depth LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
m Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	1	11	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

BL	1	21	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	1	31	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
BL	1	41	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	1	51	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	1	61	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	71	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	2	81	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	2	91	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	101	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	111	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	121	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	131	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	141	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	151	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	161	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	171	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	181	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	191	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	201	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	211	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	221	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	231	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
BL	2	241	0.9									
BL	3	242	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	3	252	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0
BL	3	262	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	272	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	282	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	292	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	302	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	312	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	322	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	332	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	342	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	352	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	362	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	3	372	1.0	1.0	1.0	1.0	1.0					
BL	4	377	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	387	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	397	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	407	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	417	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	427	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	437	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	447	1.5	1.5	1.5							
CL	5	450	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	460	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	470	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	480	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	490	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	500	5.0	5.0	5.0	5.0	5.0	5.0				

PA	6	506	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	516	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	526	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	536	5.7	5.7	5.7							
BB	7	539	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
SB	10	579	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	589	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	599	4.6	4.6	4.6	4.6	4.6	4.6				
SB	11	605	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	615	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	625	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	635	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	645	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	655	4.6	4.6	4.6	4.6						
BL	8	549	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	559	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	569	0.9	0.9								
SB	9	571	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1		

INTERMEDIATE REPORT

Width LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
m Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6	8.6
BL	1	11	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
BL	1	21	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
BL	1	31	8.6	8.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
BL	1	41	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
BL	1	51	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.8
BL	1	61	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
BL	2	71	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.5	9.5	9.5
BL	2	81	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
BL	2	91	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
BL	2	101	9.5	9.5	9.5	9.5	9.5	9.5	9.6	9.6	9.6	9.6
BL	2	111	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.7	9.7
BL	2	121	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
BL	2	131	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
BL	2	141	9.8	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
BL	2	151	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
BL	2	161	9.9	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	2	171	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	2	181	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	2	191	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BL	2	201	10.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1
BL	2	211	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
BL	2	221	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
BL	2	231	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2

BL	2	241	10.2									
BL	3	242	11.8	11.8	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	3	252	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	3	262	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	3	272	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	3	282	11.9	11.9	11.9	11.9	11.9	12.0	12.0	12.0	12.0	12.0
BL	3	292	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	3	302	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	3	312	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	3	322	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	3	332	12.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
BL	3	342	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
BL	3	352	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
BL	3	362	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
BL	3	372	12.1	12.1	12.1	12.1	12.1					
BL	4	377	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	387	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	397	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	407	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	417	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	427	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	437	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	447	1297.0	1297.0	1297.0							
CL	5	450	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	460	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	470	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	480	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	490	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	500	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0				
PA	6	506	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	516	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	526	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	536	110.0	110.0	110.0							
BB	7	539	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
SB	10	579	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	589	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	599	50.6	50.6	50.6	50.6	50.6	50.6				
SB	11	605	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	615	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	625	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	635	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	645	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	655	61.5	61.5	61.5	61.5						
BL	8	549	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
BL	8	559	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
BL	8	569	2604.0	2604.0								
SB	9	571	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0		

m²

Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	6.0	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1
BL	1	11	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3	6.3	6.3
BL	1	21	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4
BL	1	31	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.6
BL	1	41	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.7	6.7	6.7
BL	1	51	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8
BL	1	61	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0
BL	2	71	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
BL	2	81	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
BL	2	91	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3
BL	2	101	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4
BL	2	111	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.9	7.0
BL	2	121	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.1
BL	2	131	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2
BL	2	141	7.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6
BL	2	151	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7
BL	2	161	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8
BL	2	171	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
BL	2	181	7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
BL	2	191	7.9	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
BL	2	201	8.0	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1
BL	2	211	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.2
BL	2	221	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3
BL	2	231	8.6	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7	8.7
BL	2	241	8.7									
BL	3	242	11.1	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.2
BL	3	252	11.2	11.2	11.2	11.2	11.2	11.3	11.3	11.3	11.3	11.3
BL	3	262	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.4
BL	3	272	11.4	11.4	11.4	11.4	11.5	11.5	11.5	11.5	11.5	11.5
BL	3	282	11.5	11.5	11.5	11.5	11.6	11.6	11.6	11.6	11.6	11.6
BL	3	292	11.6	11.6	11.6	11.6	11.7	11.7	11.7	11.7	11.7	11.7
BL	3	302	11.7	11.7	11.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8
BL	3	312	11.8	11.8	11.8	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	3	322	11.9	11.9	11.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	3	332	12.0	12.0	12.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1
BL	3	342	12.1	12.1	12.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2
BL	3	352	12.2	12.2	12.2	12.2	12.3	12.3	12.3	12.3	12.3	12.3
BL	3	362	12.3	12.3	12.3	12.3	12.4	12.4	12.4	12.4	12.4	12.4
BL	3	372	12.4	12.4	12.4	12.4	12.5					
BL	4	377	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	387	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	397	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	407	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	417	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	427	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	437	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4

BL	4	447	1971.4	1971.4	1971.4							
CL	5	450	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	460	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	470	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	480	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	490	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	500	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0				
PA	6	506	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	516	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	526	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	536	624.8	624.8	624.8							
BB	7	539	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
SB	10	579	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	589	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	599	231.1	231.1	231.1	231.1	231.1	231.1				
SB	11	605	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	615	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	625	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	635	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	645	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	655	281.1	281.1	281.1	281.1						
BL	8	549	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6
BL	8	559	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6
BL	8	569	2369.6	2369.6								
SB	9	571	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3		

INTERMEDIATE REPORT

Reaeration Rate per day

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.519	1.517	1.514	1.512	1.510	1.508	1.506	1.504	1.502	1.500
BL	1	11	1.498	1.496	1.494	1.492	1.490	1.488	1.486	1.485	1.483	1.481
BL	1	21	1.479	1.477	1.475	1.473	1.471	1.470	1.468	1.466	1.464	1.462
BL	1	31	1.461	1.459	1.457	1.455	1.454	1.452	1.450	1.448	1.447	1.445
BL	1	41	1.443	1.442	1.440	1.438	1.437	1.435	1.433	1.432	1.430	1.428
BL	1	51	1.427	1.425	1.424	1.422	1.420	1.419	1.417	1.416	1.414	1.413
BL	1	61	1.411	1.410	1.408	1.407	1.405	1.404	1.402	1.401	1.399	1.398
BL	2	71	1.851	1.849	1.847	1.845	1.843	1.841	1.840	1.838	1.836	1.834
BL	2	81	1.833	1.831	1.829	1.827	1.826	1.824	1.822	1.821	1.819	1.817
BL	2	91	1.815	1.814	1.812	1.811	1.809	1.807	1.806	1.804	1.802	1.801
BL	2	101	1.799	1.798	1.796	1.794	1.793	1.791	1.790	1.788	1.786	1.785
BL	2	111	1.783	1.782	1.780	1.779	1.777	1.776	1.774	1.773	1.705	1.704
BL	2	121	1.702	1.701	1.700	1.699	1.698	1.696	1.695	1.694	1.693	1.692
BL	2	131	1.690	1.689	1.688	1.687	1.686	1.685	1.683	1.682	1.681	1.680
BL	2	141	1.679	1.641	1.640	1.639	1.638	1.637	1.636	1.635	1.634	1.633
BL	2	151	1.632	1.631	1.630	1.629	1.628	1.627	1.626	1.625	1.624	1.623
BL	2	161	1.622	1.621	1.620	1.619	1.618	1.617	1.616	1.615	1.614	1.614

BL	2	171	1.613	1.612	1.611	1.610	1.609	1.608	1.607	1.606	1.605	1.604
BL	2	181	1.603	1.602	1.602	1.601	1.600	1.599	1.598	1.597	1.596	1.595
BL	2	191	1.594	1.594	1.593	1.592	1.591	1.590	1.589	1.588	1.587	1.587
BL	2	201	1.586	1.585	1.584	1.583	1.582	1.581	1.581	1.580	1.579	1.578
BL	2	211	1.577	1.576	1.576	1.575	1.574	1.573	1.572	1.572	1.571	1.570
BL	2	221	1.569	1.568	1.567	1.567	1.566	1.565	1.564	1.563	1.563	1.562
BL	2	231	1.532	1.531	1.531	1.530	1.529	1.529	1.528	1.527	1.526	1.526
BL	2	241	1.525									
BL	3	242	1.265	1.265	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.264
BL	3	252	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.262
BL	3	262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.261	1.261
BL	3	272	1.261	1.261	1.261	1.261	1.261	1.261	1.261	1.261	1.260	1.260
BL	3	282	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260
BL	3	292	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259
BL	3	302	1.259	1.259	1.258	1.258	1.258	1.258	1.258	1.258	1.258	1.258
BL	3	312	1.258	1.258	1.258	1.258	1.258	1.258	1.258	1.257	1.257	1.257
BL	3	322	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257
BL	3	332	1.257	1.257	1.257	1.257	1.257	1.257	1.256	1.256	1.256	1.256
BL	3	342	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256
BL	3	352	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256	1.256
BL	3	362	1.256	1.256	1.256	1.255	1.255	1.255	1.255	1.255	1.255	1.255
BL	3	372	1.255	1.255	1.255	1.255	1.255					
BL	4	377	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	387	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	397	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	407	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	417	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	427	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	437	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
BL	4	447	0.641	0.641	0.641							
CL	5	450	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
CL	5	460	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
CL	5	470	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
CL	5	480	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
CL	5	490	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
CL	5	500	0.196	0.196	0.196	0.196	0.196	0.196				
PA	6	506	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
PA	6	516	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
PA	6	526	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
PA	6	536	0.171	0.171	0.171							
BB	7	539	0.172	0.172	0.172	0.172	0.173	0.173	0.173	0.173	0.174	0.174
SB	10	579	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	10	589	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	10	599	0.216	0.216	0.216	0.216	0.216	0.216				
SB	11	605	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	11	615	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	11	625	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	11	635	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	11	645	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
SB	11	655	0.216	0.216	0.216	0.216						
BL	8	549	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070

BL	8	559	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
BL	8	569	1.070	1.070								
SB	9	571	0.313	0.313	0.314	0.314	0.315	0.315	0.316	0.316		

INTERMEDIATE REPORT

BOD Decay Rate per day

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	31	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	41	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	51	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	1	61	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	71	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	81	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	91	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	101	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	111	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	121	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	131	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	141	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	151	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	161	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	171	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	181	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	191	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	201	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	211	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	221	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	231	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	2	241	0.09									
BL	3	242	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	252	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	262	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	272	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	282	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	292	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	302	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	312	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	322	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	332	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BL	3	342	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	3	352	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	3	362	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	3	372	0.10	0.10	0.10	0.10	0.10					

BL	4	377	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	387	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	397	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	407	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	417	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	427	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	437	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BL	4	447	0.10	0.10	0.10							
CL	5	450	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CL	5	460	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CL	5	470	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CL	5	480	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CL	5	490	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CL	5	500	0.10	0.10	0.10	0.10	0.10	0.10				
PA	6	506	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
PA	6	516	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
PA	6	526	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
PA	6	536	0.10	0.10	0.10							
BB	7	539	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	579	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	589	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	10	599	0.10	0.10	0.10	0.10	0.10	0.10				
SB	11	605	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	615	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	625	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	635	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	645	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SB	11	655	0.10	0.10	0.10	0.10						
BL	8	549	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	8	559	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BL	8	569	0.13	0.13								
SB	9	571	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14		

INTERMEDIATE REPORT
BOD Settling Rate
per day

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				

SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	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 Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	11	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	21	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	31	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	41	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	51	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	1	61	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	71	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	81	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	91	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	101	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	111	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	121	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	131	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	141	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	151	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	161	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	171	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	181	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	191	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	201	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	211	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	221	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	231	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	2	241	0.18									
BL	3	242	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	3	252	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	3	262	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
BL	3	272	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19
BL	3	282	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
BL	3	292	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
BL	3	302	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

BL	3	312	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20
BL	3	322	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	3	332	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	3	342	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	3	352	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21
BL	3	362	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	372	0.21	0.21	0.21	0.21	0.21					
BL	4	377	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	387	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	397	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	407	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	417	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	427	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	437	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	4	447	0.21	0.21	0.21							
CL	5	450	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CL	5	460	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CL	5	470	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CL	5	480	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CL	5	490	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CL	5	500	0.22	0.22	0.22	0.22	0.22	0.22				
PA	6	506	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
PA	6	516	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
PA	6	526	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23
PA	6	536	0.23	0.23	0.23							
BB	7	539	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23
SB	10	579	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SB	10	589	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23
SB	10	599	0.23	0.23	0.23	0.23	0.23	0.23				
SB	11	605	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	615	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	625	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SB	11	635	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SB	11	645	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SB	11	655	0.22	0.22	0.22	0.22						
BL	8	549	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	8	559	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	8	569	0.22	0.22								
SB	9	571	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23		

INTERMEDIATE REPORT
Sediment Oxygen Demand
g/m²/d

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	1	11	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	1	21	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36

BL	1	31	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	1	41	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	1	51	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	1	61	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
BL	2	71	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	81	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	91	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	101	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	111	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	121	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	131	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	141	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	151	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	161	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	171	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	181	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	191	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	201	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	211	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	221	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	231	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
BL	2	241	2.63									
BL	3	242	3.22	3.22	3.23	3.23	3.24	3.24	3.25	3.25	3.26	3.26
BL	3	252	3.27	3.27	3.27	3.28	3.28	3.29	3.29	3.30	3.30	3.31
BL	3	262	3.31	3.32	3.32	3.33	3.33	3.33	3.34	3.34	3.35	3.35
BL	3	272	3.36	3.36	3.37	3.37	3.38	3.38	3.39	3.39	3.40	3.40
BL	3	282	3.41	3.41	3.42	3.42	3.42	3.43	3.43	3.44	3.44	3.45
BL	3	292	3.45	3.46	3.46	3.47	3.47	3.48	3.48	3.49	3.49	3.50
BL	3	302	3.50	3.51	3.51	3.52	3.52	3.53	3.53	3.54	3.54	3.55
BL	3	312	3.55	3.56	3.56	3.57	3.57	3.58	3.58	3.59	3.59	3.60
BL	3	322	3.60	3.61	3.61	3.62	3.62	3.63	3.63	3.64	3.64	3.65
BL	3	332	3.65	3.66	3.66	3.67	3.67	3.68	3.68	3.69	3.69	3.70
BL	3	342	3.70	3.71	3.71	3.72	3.72	3.73	3.73	3.74	3.75	3.75
BL	3	352	3.76	3.76	3.77	3.77	3.78	3.78	3.79	3.79	3.80	3.80
BL	3	362	3.81	3.81	3.82	3.82	3.83	3.84	3.84	3.85	3.85	3.86
BL	3	372	3.86	3.87	3.87	3.88	3.88					
BL	4	377	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	387	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	397	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	407	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	417	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	427	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	437	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
BL	4	447	2.94	2.94	2.94							
CL	5	450	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
CL	5	460	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
CL	5	470	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
CL	5	480	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
CL	5	490	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01
CL	5	500	3.01	3.01	3.01	3.01	3.01	3.01				
PA	6	506	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40

PA	6	516	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
PA	6	526	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
PA	6	536	4.40	4.40	4.40							
BB	7	539	7.68	7.72	7.76	7.80	7.84	7.88	7.92	7.96	8.00	8.04
SB	10	579	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61
SB	10	589	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61
SB	10	599	7.61	7.61	7.61	7.61	7.61	7.61				
SB	11	605	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87
SB	11	615	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87
SB	11	625	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87
SB	11	635	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87
SB	11	645	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.87
SB	11	655	7.87	7.87	7.87	7.87						
BL	8	549	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
BL	8	559	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
BL	8	569	2.98	2.98								
SB	9	571	2.59	2.60	2.62	2.64	2.65	2.67	2.69	2.70		

CONDENSED CAPSULE SUMMARY FOR Black Lake Bayou

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.05400	27.70	0.00	5.24	1.69	0.00	0.91	0.15	20.00							
125.40	0.11047	27.70	0.00	5.36	1.71	0.00	0.92	0.15	20.00	1.52	0.09	0.00	0.00	0.00	0.17	2.36
125.20	0.11094	27.70	0.00	5.46	1.70	0.00	0.92	0.15	20.00	1.52	0.09	0.00	0.00	0.00	0.17	2.36
125.00	0.11141	27.70	0.00	5.54	1.70	0.00	0.92	0.15	20.00	1.51	0.09	0.00	0.00	0.00	0.18	2.36
124.80	0.11187	27.70	0.00	5.61	1.70	0.00	0.92	0.15	20.00	1.51	0.09	0.00	0.00	0.00	0.18	2.36
124.60	0.11234	27.70	0.00	5.67	1.70	0.00	0.92	0.15	20.00	1.51	0.09	0.00	0.00	0.00	0.18	2.36
124.40	0.11281	27.70	0.00	5.72	1.70	0.00	0.92	0.15	20.00	1.51	0.09	0.00	0.00	0.00	0.18	2.36
124.20	0.11328	27.70	0.00	5.76	1.70	0.00	0.92	0.15	20.00	1.51	0.09	0.00	0.00	0.00	0.18	2.36
124.00	0.11375	27.70	0.00	5.80	1.70	0.00	0.92	0.14	20.00	1.50	0.09	0.00	0.00	0.00	0.18	2.36
123.80	0.11422	27.70	0.00	5.83	1.70	0.00	0.92	0.14	20.00	1.50	0.09	0.00	0.00	0.00	0.18	2.36
123.60	0.11469	27.70	0.00	5.85	1.70	0.00	0.92	0.14	20.00	1.50	0.09	0.00	0.00	0.00	0.18	2.36
123.40	0.11515	27.70	0.00	5.87	1.70	0.00	0.92	0.14	20.00	1.50	0.09	0.00	0.00	0.00	0.18	2.36
123.20	0.11562	27.70	0.00	5.89	1.70	0.00	0.92	0.14	20.00	1.50	0.09	0.00	0.00	0.00	0.18	2.36
123.00	0.11609	27.70	0.00	5.91	1.70	0.00	0.92	0.14	20.00	1.49	0.09	0.00	0.00	0.00	0.18	2.36
122.80	0.11656	27.70	0.00	5.92	1.70	0.00	0.92	0.14	20.00	1.49	0.09	0.00	0.00	0.00	0.18	2.36
122.60	0.11703	27.70	0.00	5.93	1.70	0.00	0.92	0.14	20.00	1.49	0.09	0.00	0.00	0.00	0.18	2.36
122.40	0.11750	27.70	0.00	5.94	1.70	0.00	0.92	0.14	20.00	1.49	0.09	0.00	0.00	0.00	0.18	2.36
122.20	0.11797	27.70	0.00	5.95	1.70	0.00	0.92	0.14	20.00	1.49	0.09	0.00	0.00	0.00	0.18	2.36
122.00	0.11843	27.70	0.00	5.96	1.70	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
121.80	0.11890	27.70	0.00	5.97	1.70	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
121.60	0.11937	27.70	0.00	5.97	1.69	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
121.40	0.11984	27.70	0.00	5.98	1.69	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
121.20	0.12031	27.70	0.00	5.98	1.69	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
121.00	0.12078	27.70	0.00	5.99	1.69	0.00	0.92	0.14	20.00	1.48	0.09	0.00	0.00	0.00	0.18	2.36
120.80	0.12125	27.70	0.00	5.99	1.69	0.00	0.92	0.14	20.00	1.47	0.09	0.00	0.00	0.00	0.18	2.36
120.60	0.12171	27.70	0.00	5.99	1.69	0.00	0.92	0.14	20.00	1.47	0.09	0.00	0.00	0.00	0.18	2.36

120.40	0.12218	27.70	0.00	6.00	1.69	0.00	0.92	0.14	20.00	1.47	0.09	0.00	0.00	0.00	0.18	2.36
120.20	0.12265	27.70	0.00	6.00	1.69	0.00	0.93	0.14	20.00	1.47	0.09	0.00	0.00	0.00	0.18	2.36
120.00	0.12312	27.70	0.00	6.00	1.69	0.00	0.93	0.14	20.00	1.47	0.09	0.00	0.00	0.00	0.18	2.36
119.80	0.12359	27.70	0.00	6.00	1.69	0.00	0.93	0.14	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
119.60	0.12406	27.70	0.00	6.01	1.68	0.00	0.93	0.14	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
119.40	0.12453	27.70	0.00	6.01	1.68	0.00	0.93	0.13	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
119.20	0.12499	27.70	0.00	6.01	1.68	0.00	0.93	0.13	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
119.00	0.12546	27.70	0.00	6.01	1.68	0.00	0.93	0.13	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
118.80	0.12593	27.70	0.00	6.01	1.68	0.00	0.93	0.13	20.00	1.46	0.09	0.00	0.00	0.00	0.18	2.36
118.60	0.12640	27.70	0.00	6.02	1.68	0.00	0.93	0.13	20.00	1.45	0.09	0.00	0.00	0.00	0.18	2.36
118.40	0.12687	27.70	0.00	6.02	1.68	0.00	0.93	0.13	20.00	1.45	0.09	0.00	0.00	0.00	0.18	2.36
118.20	0.12734	27.70	0.00	6.02	1.68	0.00	0.93	0.13	20.00	1.45	0.09	0.00	0.00	0.00	0.18	2.36
118.00	0.12781	27.70	0.00	6.02	1.68	0.00	0.93	0.13	20.00	1.45	0.09	0.00	0.00	0.00	0.18	2.36
117.80	0.12827	27.70	0.00	6.02	1.67	0.00	0.93	0.13	20.00	1.45	0.09	0.00	0.00	0.00	0.18	2.36
117.60	0.12874	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
117.40	0.12921	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
117.20	0.12968	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
117.00	0.13015	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
116.80	0.13062	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
116.60	0.13109	27.70	0.00	6.03	1.67	0.00	0.93	0.13	20.00	1.44	0.09	0.00	0.00	0.00	0.18	2.36
116.40	0.13155	27.70	0.00	6.04	1.67	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
116.20	0.13202	27.70	0.00	6.04	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
116.00	0.13249	27.70	0.00	6.04	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
115.80	0.13296	27.70	0.00	6.04	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
115.60	0.13343	27.70	0.00	6.04	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
115.40	0.13390	27.70	0.00	6.04	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
115.20	0.13437	27.70	0.00	6.05	1.66	0.00	0.93	0.13	20.00	1.43	0.09	0.00	0.00	0.00	0.18	2.36
115.00	0.13483	27.70	0.00	6.05	1.66	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
114.80	0.13530	27.70	0.00	6.05	1.66	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
114.60	0.13577	27.70	0.00	6.05	1.65	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
114.40	0.13624	27.70	0.00	6.05	1.65	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
114.20	0.13671	27.70	0.00	6.05	1.65	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
114.00	0.13718	27.70	0.00	6.05	1.65	0.00	0.93	0.13	20.00	1.42	0.09	0.00	0.00	0.00	0.18	2.36
113.80	0.13765	27.70	0.00	6.06	1.65	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
113.60	0.13811	27.70	0.00	6.06	1.65	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
113.40	0.13858	27.70	0.00	6.06	1.65	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
113.20	0.13905	27.70	0.00	6.06	1.64	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
113.00	0.13952	27.70	0.00	6.06	1.64	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
112.80	0.13999	27.70	0.00	6.06	1.64	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
112.60	0.14046	27.70	0.00	6.06	1.64	0.00	0.93	0.13	20.00	1.41	0.09	0.00	0.00	0.00	0.18	2.36
112.40	0.14093	27.70	0.00	6.07	1.64	0.00	0.93	0.13	20.00	1.40	0.09	0.00	0.00	0.00	0.18	2.36
112.20	0.14139	27.70	0.00	6.07	1.64	0.00	0.93	0.13	20.00	1.40	0.09	0.00	0.00	0.00	0.18	2.36
112.00	0.14186	27.70	0.00	6.07	1.64	0.00	0.93	0.13	20.00	1.40	0.09	0.00	0.00	0.00	0.18	2.36
111.80	0.14233	27.70	0.00	6.07	1.63	0.00	0.93	0.13	20.00	1.40	0.09	0.00	0.00	0.00	0.18	2.36
111.60	0.14280	27.70	0.00	6.07	1.63	0.00	0.93	0.13	20.00	1.40	0.09	0.00	0.00	0.00	0.18	2.36
111.40	0.14327	27.70	0.00	6.04	1.64	0.00	0.93	0.13	20.00	1.85	0.09	0.00	0.00	0.00	0.18	2.63
111.20	0.14374	27.70	0.00	6.02	1.64	0.00	0.93	0.13	20.00	1.85	0.09	0.00	0.00	0.00	0.18	2.63
111.00	0.14421	27.70	0.00	6.00	1.65	0.00	0.93	0.13	20.00	1.85	0.09	0.00	0.00	0.00	0.18	2.63
110.80	0.14468	27.70	0.00	5.98	1.65	0.00	0.93	0.13	20.00	1.85	0.09	0.00	0.00	0.00	0.18	2.63
110.60	0.14514	27.70	0.00	5.96	1.65	0.00	0.93	0.13	20.00	1.84	0.09	0.00	0.00	0.00	0.18	2.63
110.40	0.14561	27.70	0.00	5.95	1.66	0.00	0.93	0.13	20.00	1.84	0.09	0.00	0.00	0.00	0.18	2.63

110.20	0.14608	27.70	0.00	5.94	1.66	0.00	0.93	0.13	20.00	1.84	0.09	0.00	0.00	0.00	0.18	2.63
110.00	0.14655	27.70	0.00	5.93	1.66	0.00	0.93	0.13	20.00	1.84	0.09	0.00	0.00	0.00	0.18	2.63
109.80	0.14702	27.70	0.00	5.93	1.67	0.00	0.93	0.13	20.00	1.84	0.09	0.00	0.00	0.00	0.18	2.63
109.60	0.14749	27.70	0.00	5.92	1.67	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
109.40	0.14796	27.70	0.00	5.92	1.68	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
109.20	0.14843	27.70	0.00	5.91	1.68	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
109.00	0.14890	27.70	0.00	5.91	1.68	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
108.80	0.14937	27.70	0.00	5.91	1.69	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
108.60	0.14983	27.70	0.00	5.90	1.69	0.00	0.93	0.13	20.00	1.83	0.09	0.00	0.00	0.00	0.18	2.63
108.40	0.15030	27.70	0.00	5.90	1.69	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
108.20	0.15077	27.70	0.00	5.90	1.69	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
108.00	0.15124	27.70	0.00	5.90	1.70	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
107.80	0.15171	27.70	0.00	5.90	1.70	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
107.60	0.15218	27.70	0.00	5.90	1.70	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
107.40	0.15265	27.70	0.00	5.90	1.71	0.00	0.93	0.13	20.00	1.82	0.09	0.00	0.00	0.00	0.18	2.63
107.20	0.15312	27.70	0.00	5.90	1.71	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
107.00	0.15359	27.70	0.00	5.90	1.71	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
106.80	0.15406	27.70	0.00	5.90	1.71	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
106.60	0.15452	27.70	0.00	5.90	1.72	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
106.40	0.15499	27.70	0.00	5.90	1.72	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
106.20	0.15546	27.70	0.00	5.90	1.72	0.00	0.93	0.13	20.00	1.81	0.09	0.00	0.00	0.00	0.18	2.63
106.00	0.15593	27.70	0.00	5.90	1.72	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
105.80	0.15640	27.70	0.00	5.91	1.73	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
105.60	0.15687	27.70	0.00	5.91	1.73	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
105.40	0.15734	27.70	0.00	5.91	1.73	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
105.20	0.15781	27.70	0.00	5.91	1.73	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
105.00	0.15828	27.70	0.00	5.91	1.73	0.00	0.93	0.13	20.00	1.80	0.09	0.00	0.00	0.00	0.18	2.63
104.80	0.15875	27.70	0.00	5.91	1.74	0.00	0.93	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
104.60	0.15921	27.70	0.00	5.91	1.74	0.00	0.93	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
104.40	0.15968	27.70	0.00	5.91	1.74	0.00	0.92	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
104.20	0.16015	27.70	0.00	5.91	1.74	0.00	0.92	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
104.00	0.16062	27.70	0.00	5.91	1.74	0.00	0.92	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
103.80	0.16109	27.70	0.00	5.92	1.75	0.00	0.92	0.13	20.00	1.79	0.09	0.00	0.00	0.00	0.18	2.63
103.60	0.16156	27.70	0.00	5.92	1.75	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
103.40	0.16203	27.70	0.00	5.92	1.75	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
103.20	0.16250	27.70	0.00	5.92	1.75	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
103.00	0.16297	27.70	0.00	5.92	1.75	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
102.80	0.16344	27.70	0.00	5.92	1.75	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
102.60	0.16390	27.70	0.00	5.92	1.76	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
102.40	0.16437	27.70	0.00	5.92	1.76	0.00	0.92	0.12	20.00	1.78	0.09	0.00	0.00	0.00	0.18	2.63
102.20	0.16484	27.70	0.00	5.92	1.76	0.00	0.92	0.12	20.00	1.77	0.09	0.00	0.00	0.00	0.18	2.63
102.00	0.16531	27.70	0.00	5.93	1.76	0.00	0.92	0.12	20.00	1.77	0.09	0.00	0.00	0.00	0.18	2.63
101.80	0.18878	27.70	0.00	5.89	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
101.60	0.18925	27.70	0.00	5.91	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
101.40	0.18972	27.70	0.00	5.92	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
101.20	0.19019	27.70	0.00	5.93	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
101.00	0.19066	27.70	0.00	5.93	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
100.80	0.19113	27.70	0.00	5.94	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
100.60	0.19159	27.70	0.00	5.95	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
100.40	0.19206	27.70	0.00	5.95	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63
100.20	0.19253	27.70	0.00	5.96	1.76	0.00	0.92	0.13	20.00	1.70	0.09	0.00	0.00	0.00	0.18	2.63

100.00	0.19300	27.70	0.00	5.96	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
99.80	0.19347	27.70	0.00	5.97	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
99.60	0.19394	27.70	0.00	5.97	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
99.40	0.19441	27.70	0.00	5.98	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
99.20	0.19488	27.70	0.00	5.98	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
99.00	0.19535	27.70	0.00	5.98	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
98.80	0.19582	27.70	0.00	5.98	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
98.60	0.19628	27.70	0.00	5.99	1.76	0.00	0.92	0.13	20.00	1.69	0.09	0.00	0.00	0.00	0.18	2.63
98.40	0.19675	27.70	0.00	5.99	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
98.20	0.19722	27.70	0.00	5.99	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
98.00	0.19769	27.70	0.00	5.99	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
97.80	0.19816	27.70	0.00	5.99	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
97.60	0.19863	27.70	0.00	6.00	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
97.40	0.19910	27.70	0.00	6.00	1.76	0.00	0.92	0.13	20.00	1.68	0.09	0.00	0.00	0.00	0.18	2.63
97.20	0.21557	27.70	0.00	5.96	1.75	0.00	0.92	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
97.00	0.21604	27.70	0.00	5.97	1.75	0.00	0.92	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
96.80	0.21651	27.70	0.00	5.98	1.75	0.00	0.91	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
96.60	0.21697	27.70	0.00	5.99	1.75	0.00	0.91	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
96.40	0.21744	27.70	0.00	5.99	1.75	0.00	0.91	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
96.20	0.21791	27.70	0.00	6.00	1.75	0.00	0.91	0.13	20.00	1.64	0.09	0.00	0.00	0.00	0.18	2.63
96.00	0.21838	27.70	0.00	6.00	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
95.80	0.21885	27.70	0.00	6.01	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
95.60	0.21932	27.70	0.00	6.01	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
95.40	0.21979	27.70	0.00	6.02	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
95.20	0.22026	27.70	0.00	6.02	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
95.00	0.22073	27.70	0.00	6.03	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
94.80	0.22120	27.70	0.00	6.03	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
94.60	0.22166	27.70	0.00	6.03	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
94.40	0.22213	27.70	0.00	6.04	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
94.20	0.22260	27.70	0.00	6.04	1.75	0.00	0.91	0.13	20.00	1.63	0.09	0.00	0.00	0.00	0.18	2.63
94.00	0.22307	27.70	0.00	6.04	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
93.80	0.22354	27.70	0.00	6.04	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
93.60	0.22401	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
93.40	0.22448	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
93.20	0.22495	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
93.00	0.22542	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
92.80	0.22589	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
92.60	0.22635	27.70	0.00	6.05	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
92.40	0.22682	27.70	0.00	6.06	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
92.20	0.22729	27.70	0.00	6.06	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
92.00	0.22776	27.70	0.00	6.06	1.74	0.00	0.91	0.13	20.00	1.62	0.09	0.00	0.00	0.00	0.18	2.63
91.80	0.22823	27.70	0.00	6.06	1.74	0.00	0.91	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
91.60	0.22870	27.70	0.00	6.06	1.74	0.00	0.91	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
91.40	0.22917	27.70	0.00	6.06	1.73	0.00	0.91	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
91.20	0.22964	27.70	0.00	6.06	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
91.00	0.23011	27.70	0.00	6.06	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
90.80	0.23058	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
90.60	0.23104	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
90.40	0.23151	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
90.20	0.23198	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
90.00	0.23245	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63

89.80	0.23292	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.61	0.09	0.00	0.00	0.00	0.18	2.63
89.60	0.23339	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
89.40	0.23386	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
89.20	0.23433	27.70	0.00	6.07	1.73	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
89.00	0.23480	27.70	0.00	6.08	1.73	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
88.80	0.23527	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
88.60	0.23573	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
88.40	0.23620	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
88.20	0.23667	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
88.00	0.23714	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
87.80	0.23761	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
87.60	0.23808	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.60	0.09	0.00	0.00	0.00	0.18	2.63
87.40	0.23855	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
87.20	0.23902	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
87.00	0.23949	27.70	0.00	6.08	1.72	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
86.80	0.23996	27.70	0.00	6.09	1.72	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
86.60	0.24042	27.70	0.00	6.09	1.71	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
86.40	0.24089	27.70	0.00	6.09	1.71	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
86.20	0.24136	27.70	0.00	6.09	1.71	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
86.00	0.24183	27.70	0.00	6.09	1.71	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
85.80	0.24230	27.70	0.00	6.09	1.71	0.00	0.90	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
85.60	0.24277	27.70	0.00	6.09	1.71	0.00	0.89	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
85.40	0.24324	27.70	0.00	6.09	1.71	0.00	0.89	0.12	20.00	1.59	0.09	0.00	0.00	0.00	0.18	2.63
85.20	0.24371	27.70	0.00	6.09	1.71	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
85.00	0.24418	27.70	0.00	6.09	1.71	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
84.80	0.24465	27.70	0.00	6.10	1.71	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
84.60	0.24511	27.70	0.00	6.10	1.71	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
84.40	0.24558	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
84.20	0.24605	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
84.00	0.24652	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
83.80	0.24699	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
83.60	0.24746	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
83.40	0.24793	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
83.20	0.24840	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
83.00	0.24887	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.58	0.09	0.00	0.00	0.00	0.18	2.63
82.80	0.24934	27.70	0.00	6.10	1.70	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
82.60	0.24980	27.70	0.00	6.11	1.70	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
82.40	0.25027	27.70	0.00	6.11	1.70	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
82.20	0.25074	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
82.00	0.25121	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
81.80	0.25168	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
81.60	0.25215	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
81.40	0.25262	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
81.20	0.25309	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
81.00	0.25356	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
80.80	0.25403	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
80.60	0.25449	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
80.40	0.25496	27.70	0.00	6.11	1.69	0.00	0.89	0.12	20.00	1.57	0.09	0.00	0.00	0.00	0.18	2.63
80.20	0.25543	27.70	0.00	6.12	1.69	0.00	0.89	0.12	20.00	1.56	0.09	0.00	0.00	0.00	0.18	2.63
80.00	0.25590	27.70	0.00	6.12	1.68	0.00	0.89	0.12	20.00	1.56	0.09	0.00	0.00	0.00	0.18	2.63
79.80	0.25637	27.70	0.00	6.12	1.68	0.00	0.88	0.12	20.00	1.56	0.09	0.00	0.00	0.00	0.18	2.63

79.60	0.25684	27.70	0.00	6.12	1.68	0.00	0.88	0.12	20.00	1.56	0.09	0.00	0.00	0.00	0.18	2.63
79.40	0.27531	27.70	0.00	6.07	1.68	0.00	0.89	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
79.20	0.27578	27.70	0.00	6.08	1.68	0.00	0.89	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
79.00	0.27625	27.70	0.00	6.09	1.68	0.00	0.89	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
78.80	0.27672	27.70	0.00	6.10	1.68	0.00	0.89	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
78.60	0.27718	27.70	0.00	6.10	1.68	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
78.40	0.27765	27.70	0.00	6.11	1.68	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
78.20	0.27812	27.70	0.00	6.11	1.68	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
78.00	0.27859	27.70	0.00	6.12	1.67	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
77.80	0.27906	27.70	0.00	6.12	1.67	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
77.60	0.27953	27.70	0.00	6.13	1.67	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
77.40	0.28000	27.70	0.00	6.13	1.67	0.00	0.88	0.12	20.00	1.53	0.09	0.00	0.00	0.00	0.18	2.63
77.20	0.28047	27.72	0.00	6.07	1.66	0.00	0.89	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.22
77.00	0.28094	27.74	0.00	6.01	1.66	0.00	0.89	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.22
76.80	0.28141	27.77	0.00	5.96	1.65	0.00	0.89	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.23
76.60	0.28187	27.79	0.00	5.92	1.64	0.00	0.89	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.23
76.40	0.28234	27.81	0.00	5.88	1.63	0.00	0.90	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.24
76.20	0.28281	27.83	0.00	5.84	1.63	0.00	0.90	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.24
76.00	0.28328	27.86	0.00	5.81	1.62	0.00	0.90	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.25
75.80	0.28375	27.88	0.00	5.78	1.61	0.00	0.91	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.25
75.60	0.28422	27.90	0.00	5.75	1.60	0.00	0.91	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.26
75.40	0.28469	27.92	0.00	5.72	1.60	0.00	0.91	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.26
75.20	0.28516	27.94	0.00	5.70	1.59	0.00	0.91	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.27
75.00	0.28563	27.97	0.00	5.68	1.58	0.00	0.92	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.27
74.80	0.28609	27.99	0.00	5.66	1.58	0.00	0.92	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.27
74.60	0.28656	28.01	0.00	5.64	1.57	0.00	0.92	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.28
74.40	0.28703	28.03	0.00	5.63	1.56	0.00	0.93	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.28
74.20	0.28750	28.06	0.00	5.61	1.56	0.00	0.93	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.29
74.00	0.28797	28.08	0.00	5.60	1.55	0.00	0.93	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.29
73.80	0.28844	28.10	0.00	5.58	1.54	0.00	0.93	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.30
73.60	0.28891	28.12	0.00	5.57	1.54	0.00	0.94	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.30
73.40	0.28938	28.14	0.00	5.56	1.53	0.00	0.94	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.31
73.20	0.28985	28.17	0.00	5.55	1.52	0.00	0.94	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.31
73.00	0.29031	28.19	0.00	5.54	1.52	0.00	0.94	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.32
72.80	0.29078	28.21	0.00	5.53	1.51	0.00	0.95	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.32
72.60	0.29125	28.23	0.00	5.52	1.50	0.00	0.95	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.33
72.40	0.29172	28.26	0.00	5.52	1.50	0.00	0.95	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.33
72.20	0.29219	28.28	0.00	5.51	1.49	0.00	0.95	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.33
72.00	0.29266	28.30	0.00	5.50	1.49	0.00	0.96	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.34
71.80	0.29313	28.32	0.00	5.49	1.48	0.00	0.96	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.34
71.60	0.29360	28.34	0.00	5.49	1.47	0.00	0.96	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.35
71.40	0.29407	28.37	0.00	5.48	1.47	0.00	0.96	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.35
71.20	0.29453	28.39	0.00	5.47	1.46	0.00	0.97	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.36
71.00	0.29500	28.41	0.00	5.47	1.46	0.00	0.97	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.36
70.80	0.29547	28.43	0.00	5.46	1.45	0.00	0.97	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.37
70.60	0.29594	28.46	0.00	5.46	1.44	0.00	0.97	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.37
70.40	0.29641	28.48	0.00	5.45	1.44	0.00	0.98	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.38
70.20	0.29688	28.50	0.00	5.45	1.43	0.00	0.98	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.38
70.00	0.29735	28.52	0.00	5.44	1.43	0.00	0.98	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.39
69.80	0.29782	28.54	0.00	5.43	1.42	0.00	0.98	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.18	3.39
69.60	0.29829	28.57	0.00	5.43	1.41	0.00	0.99	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.40

69.40	0.29875	28.59	0.00	5.42	1.41	0.00	0.99	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.40
69.20	0.29922	28.61	0.00	5.42	1.40	0.00	0.99	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.41
69.00	0.29969	28.63	0.00	5.41	1.40	0.00	0.99	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.41
68.80	0.30016	28.66	0.00	5.41	1.39	0.00	0.99	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.42
68.60	0.30063	28.68	0.00	5.41	1.39	0.00	1.00	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.42
68.40	0.30110	28.70	0.00	5.40	1.38	0.00	1.00	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.42
68.20	0.30157	28.72	0.00	5.40	1.38	0.00	1.00	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.43
68.00	0.30204	28.74	0.00	5.39	1.37	0.00	1.00	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.43
67.80	0.30251	28.77	0.00	5.39	1.37	0.00	1.01	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.44
67.60	0.30297	28.79	0.00	5.38	1.36	0.00	1.01	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.44
67.40	0.30344	28.81	0.00	5.38	1.35	0.00	1.01	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.45
67.20	0.30391	28.83	0.00	5.37	1.35	0.00	1.01	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.45
67.00	0.30438	28.86	0.00	5.37	1.34	0.00	1.01	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.46
66.80	0.30485	28.88	0.00	5.36	1.34	0.00	1.02	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.46
66.60	0.30532	28.90	0.00	5.36	1.33	0.00	1.02	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.47
66.40	0.30579	28.92	0.00	5.35	1.33	0.00	1.02	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.47
66.20	0.30626	28.94	0.00	5.35	1.32	0.00	1.02	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.48
66.00	0.30672	28.97	0.00	5.35	1.32	0.00	1.02	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.48
65.80	0.30719	28.99	0.00	5.34	1.31	0.00	1.03	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.49
65.60	0.30766	29.01	0.00	5.34	1.31	0.00	1.03	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.49
65.40	0.30813	29.03	0.00	5.33	1.30	0.00	1.03	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.50
65.20	0.30860	29.06	0.00	5.33	1.30	0.00	1.03	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.50
65.00	0.30907	29.08	0.00	5.32	1.29	0.00	1.03	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.51
64.80	0.30954	29.10	0.00	5.32	1.29	0.00	1.04	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.51
64.60	0.31001	29.12	0.00	5.32	1.28	0.00	1.04	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.52
64.40	0.31048	29.14	0.00	5.31	1.28	0.00	1.04	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.52
64.20	0.31094	29.17	0.00	5.31	1.28	0.00	1.04	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.53
64.00	0.31141	29.19	0.00	5.30	1.27	0.00	1.04	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.53
63.80	0.31188	29.21	0.00	5.30	1.27	0.00	1.05	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.54
63.60	0.31235	29.23	0.00	5.29	1.26	0.00	1.05	0.12	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.54
63.40	0.31282	29.26	0.00	5.29	1.26	0.00	1.05	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.55
63.20	0.31329	29.28	0.00	5.28	1.25	0.00	1.05	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.55
63.00	0.31376	29.30	0.00	5.28	1.25	0.00	1.05	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.56
62.80	0.31423	29.32	0.00	5.28	1.24	0.00	1.06	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.56
62.60	0.31470	29.34	0.00	5.27	1.24	0.00	1.06	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.57
62.40	0.31516	29.37	0.00	5.27	1.23	0.00	1.06	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.57
62.20	0.31563	29.39	0.00	5.26	1.23	0.00	1.06	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.58
62.00	0.31610	29.41	0.00	5.26	1.23	0.00	1.06	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.58
61.80	0.31657	29.43	0.00	5.25	1.22	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.19	3.59
61.60	0.31704	29.46	0.00	5.25	1.22	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.59
61.40	0.31751	29.48	0.00	5.25	1.21	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.60
61.20	0.31798	29.50	0.00	5.24	1.21	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.60
61.00	0.31845	29.52	0.00	5.24	1.20	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.61
60.80	0.31892	29.54	0.00	5.23	1.20	0.00	1.07	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.61
60.60	0.31938	29.57	0.00	5.23	1.20	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.62
60.40	0.31985	29.59	0.00	5.22	1.19	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.62
60.20	0.32032	29.61	0.00	5.22	1.19	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.63
60.00	0.32079	29.63	0.00	5.21	1.18	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.63
59.80	0.32126	29.66	0.00	5.21	1.18	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.64
59.60	0.32173	29.68	0.00	5.21	1.18	0.00	1.08	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.64
59.40	0.32220	29.70	0.00	5.20	1.17	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.65

59.20	0.32267	29.72	0.00	5.20	1.17	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.65
59.00	0.32314	29.74	0.00	5.19	1.16	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.66
58.80	0.32360	29.77	0.00	5.19	1.16	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.66
58.60	0.32407	29.79	0.00	5.18	1.16	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.67
58.40	0.32454	29.81	0.00	5.18	1.15	0.00	1.09	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.67
58.20	0.32501	29.83	0.00	5.17	1.15	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.68
58.00	0.32548	29.86	0.00	5.17	1.14	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.68
57.80	0.32595	29.88	0.00	5.17	1.14	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.69
57.60	0.32642	29.90	0.00	5.16	1.14	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.69
57.40	0.32689	29.92	0.00	5.16	1.13	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.70
57.20	0.32736	29.94	0.00	5.15	1.13	0.00	1.10	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.70
57.00	0.32782	29.97	0.00	5.15	1.13	0.00	1.11	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.71
56.80	0.32829	29.99	0.00	5.14	1.12	0.00	1.11	0.13	20.00	1.26	0.09	0.00	0.00	0.00	0.20	3.71
56.60	0.32876	30.01	0.00	5.14	1.12	0.00	1.11	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.72
56.40	0.32923	30.03	0.00	5.13	1.11	0.00	1.11	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.72
56.20	0.32970	30.06	0.00	5.13	1.11	0.00	1.11	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.73
56.00	0.33017	30.08	0.00	5.13	1.11	0.00	1.11	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.73
55.80	0.33064	30.10	0.00	5.12	1.10	0.00	1.11	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.74
55.60	0.33111	30.12	0.00	5.12	1.10	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.75
55.40	0.33158	30.14	0.00	5.11	1.10	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.75
55.20	0.33204	30.17	0.00	5.11	1.09	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.76
55.00	0.33251	30.19	0.00	5.10	1.09	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.76
54.80	0.33298	30.21	0.00	5.10	1.09	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.77
54.60	0.33345	30.23	0.00	5.09	1.08	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.77
54.40	0.33392	30.26	0.00	5.09	1.08	0.00	1.12	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.20	3.78
54.20	0.33439	30.28	0.00	5.09	1.08	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.78
54.00	0.33486	30.30	0.00	5.08	1.07	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.79
53.80	0.33533	30.32	0.00	5.08	1.07	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.79
53.60	0.33580	30.34	0.00	5.07	1.07	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.80
53.40	0.33626	30.37	0.00	5.07	1.06	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.80
53.20	0.33673	30.39	0.00	5.06	1.06	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.81
53.00	0.33720	30.41	0.00	5.06	1.06	0.00	1.13	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.81
52.80	0.33767	30.43	0.00	5.05	1.05	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.82
52.60	0.33814	30.46	0.00	5.05	1.05	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.82
52.40	0.33861	30.48	0.00	5.05	1.05	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.83
52.20	0.33908	30.50	0.00	5.04	1.04	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.84
52.00	0.33955	30.52	0.00	5.04	1.04	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.84
51.80	0.34002	30.54	0.00	5.03	1.04	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.85
51.60	0.34048	30.57	0.00	5.03	1.03	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.85
51.40	0.34095	30.59	0.00	5.02	1.03	0.00	1.14	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.86
51.20	0.34142	30.61	0.00	5.02	1.03	0.00	1.15	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.86
51.00	0.34189	30.63	0.00	5.01	1.03	0.00	1.15	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.87
50.80	0.34236	30.66	0.00	5.01	1.02	0.00	1.15	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.87
50.60	0.34283	30.68	0.00	5.01	1.02	0.00	1.15	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.88
50.40	0.34330	30.70	0.00	5.00	1.02	0.00	1.15	0.13	20.00	1.26	0.10	0.00	0.00	0.00	0.21	3.88
50.20	0.34377	30.70	0.00	5.16	2.63	0.00	1.13	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
50.00	0.34423	30.70	0.00	5.09	3.32	0.00	1.11	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
49.80	0.34470	30.70	0.00	5.04	3.63	0.00	1.10	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
49.60	0.34517	30.70	0.00	5.02	3.76	0.00	1.09	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
49.40	0.34564	30.70	0.00	5.01	3.82	0.00	1.08	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
49.20	0.34611	30.70	0.00	5.00	3.84	0.00	1.07	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94

49.00	0.34658	30.70	0.00	5.00	3.85	0.00	1.07	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
48.80	0.34705	30.70	0.00	5.00	3.86	0.00	1.07	0.13	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
48.60	0.34751	30.70	0.00	5.00	3.86	0.00	1.07	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
48.40	0.34798	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
48.20	0.34845	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
48.00	0.35192	30.70	0.00	5.00	3.85	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
47.80	0.35239	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
47.60	0.35286	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
47.40	0.35332	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
47.20	0.35379	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
47.00	0.35426	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
46.80	0.35473	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
46.60	0.35520	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
46.40	0.35567	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
46.20	0.35614	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
46.00	0.35660	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
45.80	0.35707	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
45.60	0.35754	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
45.40	0.35801	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
45.20	0.35848	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
45.00	0.35895	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
44.80	0.35942	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
44.60	0.35988	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
44.40	0.36035	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
44.20	0.36082	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
44.00	0.36129	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
43.80	0.36176	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
43.60	0.36223	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
43.40	0.36269	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
43.20	0.36316	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
43.00	0.36363	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
42.80	0.36410	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
42.60	0.36457	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
42.40	0.36504	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
42.20	0.36551	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
42.00	0.36597	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
41.80	0.36644	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
41.60	0.36691	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
41.40	0.36738	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
41.20	0.36785	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
41.00	0.36832	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
40.80	0.36879	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
40.60	0.36925	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
40.40	0.36972	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
40.20	0.37019	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
40.00	0.37066	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
39.80	0.37113	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
39.60	0.37160	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
39.40	0.37206	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
39.20	0.37253	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
39.00	0.37300	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94

38.80	0.37347	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
38.60	0.37394	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
38.40	0.37441	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
38.20	0.37488	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
38.00	0.37534	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
37.80	0.37581	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
37.60	0.37628	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
37.40	0.37675	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
37.20	0.37722	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
37.00	0.37769	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
36.80	0.37816	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
36.60	0.37862	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
36.40	0.37909	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
36.20	0.37956	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
36.00	0.38003	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
35.80	0.38050	30.70	0.00	5.00	3.86	0.00	1.06	0.12	20.00	0.64	0.10	0.00	0.00	0.00	0.21	2.94
35.60	0.38097	30.70	0.00	6.09	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
35.40	0.38144	30.70	0.00	6.19	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
35.20	0.38191	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
35.00	0.38238	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
34.80	0.38285	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
34.60	0.38332	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
34.40	0.38379	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
34.20	0.38425	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
34.00	0.38472	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
33.80	0.38519	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
33.60	0.38566	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
33.40	0.38613	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
33.20	0.38660	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
33.00	0.38707	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
32.80	0.38754	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
32.60	0.38801	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
32.40	0.38848	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
32.20	0.38895	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
32.00	0.38942	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
31.80	0.38989	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
31.60	0.39036	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
31.40	0.39083	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
31.20	0.39130	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
31.00	0.39177	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
30.80	0.39224	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
30.60	0.39271	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
30.40	0.39318	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
30.20	0.39365	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
30.00	0.39412	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
29.80	0.39459	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
29.60	0.39506	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
29.40	0.39553	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
29.20	0.39600	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
29.00	0.39647	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
28.80	0.39694	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01

28.60	0.39741	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
28.40	0.39787	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
28.20	0.39834	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
28.00	0.39881	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
27.80	0.39928	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
27.60	0.39975	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
27.40	0.40022	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
27.20	0.40069	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
27.00	0.40116	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
26.80	0.40163	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
26.60	0.40210	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
26.40	0.40257	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
26.20	0.40304	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
26.00	0.40351	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
25.80	0.40398	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
25.60	0.40445	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
25.40	0.40492	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
25.20	0.40539	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
25.00	0.40586	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
24.80	0.40633	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
24.60	0.20380	30.70	0.00	6.20	3.87	0.00	1.06	0.12	20.00	0.20	0.10	0.00	0.00	0.00	0.22	3.01
24.40	0.20380	30.70	0.00	5.62	3.86	0.00	1.06	0.12	20.42	0.17	0.10	0.00	0.00	0.00	0.21	4.40
24.20	0.20380	30.70	0.00	5.42	3.85	0.00	1.06	0.12	20.85	0.17	0.10	0.00	0.00	0.00	0.21	4.40
24.00	0.20380	30.70	0.00	5.39	3.85	0.00	1.06	0.12	21.27	0.17	0.10	0.00	0.00	0.00	0.21	4.40
23.80	0.20380	30.70	0.00	5.43	3.84	0.00	1.06	0.12	21.70	0.17	0.10	0.00	0.00	0.00	0.21	4.40
23.60	0.20380	30.70	0.00	5.51	3.84	0.00	1.06	0.12	22.12	0.17	0.10	0.00	0.00	0.00	0.21	4.40
23.40	0.20380	30.70	0.00	5.60	3.84	0.00	1.05	0.12	22.55	0.17	0.10	0.00	0.00	0.00	0.21	4.40
23.20	0.20380	30.70	0.00	5.71	3.84	0.00	1.05	0.12	22.97	0.17	0.10	0.00	0.00	0.00	0.22	4.40
23.00	0.20380	30.70	0.00	5.81	3.84	0.00	1.05	0.12	23.39	0.17	0.10	0.00	0.00	0.00	0.22	4.40
22.80	0.20380	30.70	0.00	5.91	3.84	0.00	1.05	0.12	23.82	0.17	0.10	0.00	0.00	0.00	0.22	4.40
22.60	0.20380	30.70	0.00	6.02	3.84	0.00	1.05	0.12	24.24	0.17	0.10	0.00	0.00	0.00	0.22	4.40
22.40	0.20380	30.70	0.00	6.12	3.84	0.00	1.05	0.12	24.67	0.17	0.10	0.00	0.00	0.00	0.22	4.40
22.20	0.20380	30.70	0.00	6.23	3.84	0.00	1.05	0.12	25.09	0.17	0.10	0.00	0.00	0.00	0.22	4.40
22.00	0.20380	30.70	0.00	6.33	3.84	0.00	1.05	0.12	25.52	0.17	0.10	0.00	0.00	0.00	0.22	4.40
21.80	0.20380	30.70	0.00	6.44	3.84	0.00	1.05	0.12	25.94	0.17	0.10	0.00	0.00	0.00	0.22	4.40
21.60	0.20380	30.70	0.00	6.54	3.84	0.00	1.05	0.12	26.36	0.17	0.10	0.00	0.00	0.00	0.22	4.40
21.40	0.20380	30.70	0.00	6.65	3.84	0.00	1.05	0.12	26.79	0.17	0.10	0.00	0.00	0.00	0.22	4.40
21.20	0.20380	30.70	0.00	6.76	3.84	0.00	1.05	0.12	27.21	0.17	0.10	0.00	0.00	0.00	0.22	4.40
21.00	0.20380	30.70	0.00	6.86	3.84	0.00	1.05	0.12	27.64	0.17	0.10	0.00	0.00	0.00	0.22	4.40
20.80	0.20380	30.70	0.00	6.97	3.84	0.00	1.05	0.12	28.06	0.17	0.10	0.00	0.00	0.00	0.22	4.40
20.60	0.20380	30.70	0.00	7.07	3.84	0.00	1.05	0.12	28.48	0.17	0.10	0.00	0.00	0.00	0.22	4.40
20.40	0.20380	30.70	0.00	7.18	3.84	0.00	1.05	0.12	28.91	0.17	0.10	0.00	0.00	0.00	0.22	4.40
20.20	0.20380	30.70	0.00	7.28	3.84	0.00	1.05	0.12	29.33	0.17	0.10	0.00	0.00	0.00	0.22	4.40
20.00	0.20380	30.70	0.00	7.39	3.84	0.00	1.05	0.12	29.76	0.17	0.10	0.00	0.00	0.00	0.22	4.40
19.80	0.20380	30.70	0.00	7.49	3.84	0.00	1.05	0.12	30.18	0.17	0.10	0.00	0.00	0.00	0.22	4.40
19.60	0.20380	30.70	0.00	7.60	3.84	0.00	1.05	0.12	30.61	0.17	0.10	0.00	0.00	0.00	0.22	4.40
19.40	0.20380	30.70	0.00	7.70	3.84	0.00	1.05	0.12	31.03	0.17	0.10	0.00	0.00	0.00	0.23	4.40
19.20	0.20380	30.70	0.00	7.81	3.84	0.00	1.05	0.12	31.45	0.17	0.10	0.00	0.00	0.00	0.23	4.40
19.00	0.20380	30.70	0.00	7.91	3.84	0.00	1.05	0.12	31.88	0.17	0.10	0.00	0.00	0.00	0.23	4.40
18.80	0.20380	30.70	0.00	8.02	3.84	0.00	1.05	0.12	32.30	0.17	0.10	0.00	0.00	0.00	0.23	4.40
18.60	0.20380	30.70	0.00	8.12	3.84	0.00	1.05	0.12	32.73	0.17	0.10	0.00	0.00	0.00	0.23	4.40

18.40	0.20380	30.70	0.00	8.23	3.84	0.00	1.05	0.12	33.15	0.17	0.10	0.00	0.00	0.00	0.23	4.40
18.20	0.20380	30.70	0.00	8.33	3.84	0.00	1.05	0.12	33.58	0.17	0.10	0.00	0.00	0.00	0.23	4.40
18.00	0.20380	30.70	0.00	8.44	3.84	0.00	1.05	0.12	34.00	0.17	0.10	0.00	0.00	0.00	0.23	4.40
17.80	0.56420	30.78	0.00	5.88	3.40	0.00	1.13	0.15	34.80	0.17	0.10	0.00	0.00	0.00	0.22	7.68
17.60	0.56420	30.86	0.00	5.73	3.92	0.00	1.15	0.14	35.60	0.17	0.10	0.00	0.00	0.00	0.22	7.72
17.40	0.56420	30.94	0.00	5.61	4.34	0.00	1.17	0.14	36.40	0.17	0.10	0.00	0.00	0.00	0.22	7.76
17.20	0.56420	31.02	0.00	5.52	4.66	0.00	1.19	0.14	37.20	0.17	0.10	0.00	0.00	0.00	0.22	7.80
17.00	0.56420	31.10	0.00	5.47	4.92	0.00	1.20	0.14	38.00	0.17	0.10	0.00	0.00	0.00	0.22	7.84
16.80	0.56420	31.18	0.00	5.45	5.11	0.00	1.22	0.14	38.80	0.17	0.10	0.00	0.00	0.00	0.22	7.88
16.60	0.56420	31.26	0.00	5.47	5.27	0.00	1.23	0.14	39.60	0.17	0.10	0.00	0.00	0.00	0.22	7.92
16.40	0.56420	31.34	0.00	5.51	5.39	0.00	1.24	0.14	40.40	0.17	0.10	0.00	0.00	0.00	0.22	7.96
16.20	0.56420	31.42	0.00	5.57	5.48	0.00	1.26	0.14	41.20	0.17	0.10	0.00	0.00	0.00	0.23	8.00
16.00	0.56420	31.50	0.00	5.66	5.55	0.00	1.27	0.14	42.00	0.17	0.10	0.00	0.00	0.00	0.23	8.04
15.80	0.76720	31.50	0.00	5.42	7.35	0.00	1.24	0.14	42.31	0.22	0.10	0.00	0.00	0.00	0.23	7.61
15.60	0.76720	31.50	0.00	5.28	7.17	0.00	1.24	0.14	42.62	0.22	0.10	0.00	0.00	0.00	0.22	7.61
15.40	0.76720	31.50	0.00	5.18	7.01	0.00	1.24	0.14	42.92	0.22	0.10	0.00	0.00	0.00	0.22	7.61
15.20	0.76720	31.50	0.00	5.11	6.85	0.00	1.24	0.14	43.23	0.22	0.10	0.00	0.00	0.00	0.22	7.61
15.00	0.76720	31.50	0.00	5.07	6.71	0.00	1.25	0.14	43.54	0.22	0.10	0.00	0.00	0.00	0.22	7.61
14.80	0.76720	31.50	0.00	5.04	6.58	0.00	1.25	0.14	43.85	0.22	0.10	0.00	0.00	0.00	0.22	7.61
14.60	0.76720	31.50	0.00	5.04	6.45	0.00	1.25	0.14	44.15	0.22	0.10	0.00	0.00	0.00	0.22	7.61
14.40	0.76720	31.50	0.00	5.05	6.34	0.00	1.25	0.14	44.46	0.22	0.10	0.00	0.00	0.00	0.22	7.61
14.20	0.76720	31.50	0.00	5.07	6.23	0.00	1.25	0.14	44.77	0.22	0.10	0.00	0.00	0.00	0.22	7.61
14.00	0.76720	31.50	0.00	5.11	6.13	0.00	1.25	0.14	45.08	0.22	0.10	0.00	0.00	0.00	0.22	7.61
13.80	0.76720	31.50	0.00	5.16	6.03	0.00	1.25	0.14	45.38	0.22	0.10	0.00	0.00	0.00	0.22	7.61
13.60	0.76720	31.50	0.00	5.21	5.94	0.00	1.25	0.14	45.69	0.22	0.10	0.00	0.00	0.00	0.22	7.61
13.40	0.76720	31.50	0.00	5.27	5.86	0.00	1.25	0.14	46.00	0.22	0.10	0.00	0.00	0.00	0.22	7.61
13.20	0.76720	31.50	0.00	5.33	5.78	0.00	1.25	0.14	46.31	0.22	0.10	0.00	0.00	0.00	0.22	7.61
13.00	0.76720	31.50	0.00	5.40	5.71	0.00	1.25	0.14	46.62	0.22	0.10	0.00	0.00	0.00	0.23	7.61
12.80	0.76720	31.50	0.00	5.47	5.64	0.00	1.25	0.14	46.92	0.22	0.10	0.00	0.00	0.00	0.23	7.61
12.60	0.76720	31.50	0.00	5.54	5.58	0.00	1.25	0.14	47.23	0.22	0.10	0.00	0.00	0.00	0.23	7.61
12.40	0.76720	31.50	0.00	5.62	5.52	0.00	1.25	0.14	47.54	0.22	0.10	0.00	0.00	0.00	0.23	7.61
12.20	0.76720	31.50	0.00	5.70	5.47	0.00	1.25	0.14	47.85	0.22	0.10	0.00	0.00	0.00	0.23	7.61
12.00	0.76720	31.50	0.00	5.78	5.42	0.00	1.25	0.14	48.15	0.22	0.10	0.00	0.00	0.00	0.23	7.61
11.80	0.76720	31.50	0.00	5.86	5.37	0.00	1.25	0.14	48.46	0.22	0.10	0.00	0.00	0.00	0.23	7.61
11.60	0.76720	31.50	0.00	5.94	5.32	0.00	1.25	0.14	48.77	0.22	0.10	0.00	0.00	0.00	0.23	7.61
11.40	0.76720	31.50	0.00	6.02	5.28	0.00	1.25	0.14	49.08	0.22	0.10	0.00	0.00	0.00	0.23	7.61
11.20	0.76720	31.50	0.00	6.10	5.24	0.00	1.25	0.14	49.38	0.22	0.10	0.00	0.00	0.00	0.23	7.61
11.00	0.76720	31.50	0.00	6.18	5.21	0.00	1.25	0.14	49.69	0.22	0.10	0.00	0.00	0.00	0.23	7.61
10.80	0.76720	31.50	0.00	6.26	5.17	0.00	1.25	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.61
10.60	0.76720	31.50	0.00	6.28	5.39	0.00	1.26	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
10.40	0.76720	31.50	0.00	6.29	5.59	0.00	1.26	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
10.20	0.76720	31.50	0.00	6.28	5.77	0.00	1.26	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
10.00	0.76720	31.50	0.00	6.27	5.94	0.00	1.27	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
9.80	0.76720	31.50	0.00	6.24	6.10	0.00	1.27	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
9.60	0.76720	31.50	0.00	6.21	6.24	0.00	1.27	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
9.40	0.76720	31.50	0.00	6.17	6.37	0.00	1.27	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
9.20	0.76720	31.50	0.00	6.13	6.49	0.00	1.28	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
9.00	0.76720	31.50	0.00	6.09	6.60	0.00	1.28	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
8.80	0.76720	31.50	0.00	6.04	6.71	0.00	1.28	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
8.60	0.76720	31.50	0.00	6.00	6.80	0.00	1.29	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
8.40	0.76720	31.50	0.00	5.96	6.89	0.00	1.29	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87

8.20	0.76720	31.50	0.00	5.91	6.97	0.00	1.29	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
8.00	0.76720	31.50	0.00	5.87	7.04	0.00	1.29	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
7.80	0.76720	31.50	0.00	5.83	7.11	0.00	1.29	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
7.60	0.76720	31.50	0.00	5.79	7.17	0.00	1.30	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
7.40	0.76720	31.50	0.00	5.76	7.23	0.00	1.30	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
7.20	0.76720	31.50	0.00	5.72	7.28	0.00	1.30	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
7.00	0.76720	31.50	0.00	5.69	7.33	0.00	1.30	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
6.80	0.76720	31.50	0.00	5.65	7.38	0.00	1.31	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
6.60	0.76720	31.50	0.00	5.62	7.42	0.00	1.31	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
6.40	0.76720	31.50	0.00	5.60	7.46	0.00	1.31	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
6.20	0.76720	31.50	0.00	5.57	7.49	0.00	1.31	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
6.00	0.76720	31.50	0.00	5.54	7.52	0.00	1.31	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
5.80	0.76720	31.50	0.00	5.52	7.55	0.00	1.32	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
5.60	0.76720	31.50	0.00	5.50	7.58	0.00	1.32	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
5.40	0.76720	31.50	0.00	5.48	7.61	0.00	1.32	0.14	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
5.20	0.76720	31.50	0.00	5.46	7.63	0.00	1.32	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
5.00	0.76720	31.50	0.00	5.44	7.65	0.00	1.32	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
4.80	0.76720	31.50	0.00	5.42	7.67	0.00	1.32	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
4.60	0.76720	31.50	0.00	5.41	7.69	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.23	7.87
4.40	0.76720	31.50	0.00	5.39	7.70	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
4.20	0.76720	31.50	0.00	5.38	7.72	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
4.00	0.76720	31.50	0.00	5.37	7.73	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
3.80	0.76720	31.50	0.00	5.35	7.75	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
3.60	0.76720	31.50	0.00	5.34	7.76	0.00	1.33	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
3.40	0.76720	31.50	0.00	5.33	7.77	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
3.20	0.76720	31.50	0.00	5.32	7.78	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
3.00	0.76720	31.50	0.00	5.32	7.79	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
2.80	0.76720	31.50	0.00	5.31	7.80	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
2.60	0.76720	31.50	0.00	5.30	7.81	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
2.40	0.76720	31.50	0.00	5.29	7.81	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
2.20	0.76720	31.50	0.00	5.29	7.82	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
2.00	0.76720	31.50	0.00	5.28	7.83	0.00	1.34	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
1.80	0.76720	31.50	0.00	5.27	7.83	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
1.60	0.76720	31.50	0.00	5.27	7.84	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
1.40	0.76720	31.50	0.00	5.26	7.84	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
1.20	0.76720	31.50	0.00	5.26	7.85	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
1.00	0.76720	31.50	0.00	5.25	7.85	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
0.80	0.76720	31.50	0.00	5.25	7.85	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
0.60	0.76720	31.50	0.00	5.25	7.86	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
0.40	0.76720	31.50	0.00	5.24	7.86	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
0.20	0.76720	31.50	0.00	5.24	7.86	0.00	1.35	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87
0.00	0.76720	31.50	0.00	5.24	7.87	0.00	1.36	0.15	50.00	0.22	0.10	0.00	0.00	0.00	0.22	7.87

CONDENSED CAPSULE SUMMARY FOR Praire

								REAER	BOD1	BOD1	BOD2	BOD2	NH3			
DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	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	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.20300	30.70	0.00	6.20	3.87	0.00	1.06	0.12	75.00							

5.80	0.20300	30.70	0.00	6.42	6.97	0.00	1.06	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
5.60	0.20300	30.70	0.00	6.35	7.65	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
5.40	0.20300	30.70	0.00	6.33	7.80	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
5.20	0.20300	30.70	0.00	6.32	7.83	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
5.00	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
4.80	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
4.60	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
4.40	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
4.20	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
4.00	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
3.80	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
3.60	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
3.40	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
3.20	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
3.00	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
2.80	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
2.60	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
2.40	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
2.20	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
2.00	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
1.80	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
1.60	0.20300	30.70	0.00	6.32	7.84	0.00	1.07	0.12	75.00	1.07	0.13	0.00	0.00	0.00	0.22	2.98
1.40	0.20300	30.80	0.00	7.90	9.24	0.00	1.09	0.12	70.88	0.31	0.13	0.00	0.00	0.00	0.23	2.59
1.20	0.20300	30.90	0.00	8.42	10.32	0.00	1.10	0.12	66.75	0.31	0.13	0.00	0.00	0.00	0.23	2.60
1.00	0.20300	31.00	0.00	8.36	11.15	0.00	1.12	0.12	62.62	0.31	0.13	0.00	0.00	0.00	0.23	2.62
0.80	0.20300	31.10	0.00	7.97	11.78	0.00	1.13	0.12	58.50	0.31	0.13	0.00	0.00	0.00	0.23	2.64
0.60	0.20300	31.20	0.00	7.42	12.25	0.00	1.14	0.12	54.38	0.31	0.13	0.00	0.00	0.00	0.23	2.65
0.40	0.20300	31.30	0.00	6.79	12.61	0.00	1.15	0.12	50.25	0.32	0.13	0.00	0.00	0.00	0.23	2.67
0.20	0.20300	31.40	0.00	6.13	12.87	0.00	1.16	0.12	46.12	0.32	0.14	0.00	0.00	0.00	0.23	2.69
0.00	0.20300	31.50	0.00	5.46	13.06	0.00	1.17	0.13	42.00	0.32	0.14	0.00	0.00	0.00	0.23	2.70

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
	HDWTR	0.054	27.7	0.0	5.2	1.7	0.0	0.9	0.2	20.0														
	WASTELOAD # 001 (NPS Letherman Creek) ENTERS HERE																							
1	BL 1	125.40	0.110	27.7	0.0	5.4	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.018	0.018	7.9	1.519	0.09	0.00	0.00	0.00	0.17	2.36
2	BL 1	125.20	0.111	27.7	0.0	5.5	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.018	0.018	7.9	1.517	0.09	0.00	0.00	0.00	0.17	2.36
3	BL 1	125.00	0.111	27.7	0.0	5.5	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.018	0.018	7.9	1.514	0.09	0.00	0.00	0.00	0.18	2.36
4	BL 1	124.80	0.112	27.7	0.0	5.6	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.018	0.018	7.9	1.512	0.09	0.00	0.00	0.00	0.18	2.36
5	BL 1	124.60	0.112	27.7	0.0	5.7	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.019	0.019	7.9	1.510	0.09	0.00	0.00	0.00	0.18	2.36
6	BL 1	124.40	0.113	27.7	0.0	5.7	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.019	0.019	7.9	1.508	0.09	0.00	0.00	0.00	0.18	2.36
7	BL 1	124.20	0.113	27.7	0.0	5.8	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.5	0.019	0.019	7.9	1.506	0.09	0.00	0.00	0.00	0.18	2.36
8	BL 1	124.00	0.114	27.7	0.0	5.8	1.7	0.0	0.9	0.1	20.0	0.0	0.71	8.6	0.019	0.019	7.9	1.504	0.09	0.00	0.00	0.00	0.18	2.36
9	BL 1	123.80	0.114	27.7	0.0	5.8	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.502	0.09	0.00	0.00	0.00	0.18	2.36
10	BL 1	123.60	0.115	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.500	0.09	0.00	0.00	0.00	0.18	2.36
11	BL 1	123.40	0.115	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.498	0.09	0.00	0.00	0.00	0.18	2.36
12	BL 1	123.20	0.116	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.496	0.09	0.00	0.00	0.00	0.18	2.36
13	BL 1	123.00	0.116	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.494	0.09	0.00	0.00	0.00	0.18	2.36
14	BL 1	122.80	0.117	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.492	0.09	0.00	0.00	0.00	0.18	2.36
15	BL 1	122.60	0.117	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.490	0.09	0.00	0.00	0.00	0.18	2.36
16	BL 1	122.40	0.117	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.72	8.6	0.019	0.019	7.9	1.488	0.09	0.00	0.00	0.00	0.18	2.36
17	BL 1	122.20	0.118	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.486	0.09	0.00	0.00	0.00	0.18	2.36
18	BL 1	122.00	0.118	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.485	0.09	0.00	0.00	0.00	0.18	2.36
19	BL 1	121.80	0.119	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.483	0.09	0.00	0.00	0.00	0.18	2.36
20	BL 1	121.60	0.119	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.481	0.09	0.00	0.00	0.00	0.18	2.36
21	BL 1	121.40	0.120	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.479	0.09	0.00	0.00	0.00	0.18	2.36
22	BL 1	121.20	0.120	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.477	0.09	0.00	0.00	0.00	0.18	2.36
23	BL 1	121.00	0.121	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.73	8.6	0.019	0.019	7.9	1.475	0.09	0.00	0.00	0.00	0.18	2.36
24	BL 1	120.80	0.121	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.473	0.09	0.00	0.00	0.00	0.18	2.36
25	BL 1	120.60	0.122	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.471	0.09	0.00	0.00	0.00	0.18	2.36
26	BL 1	120.40	0.122	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.470	0.09	0.00	0.00	0.00	0.18	2.36
27	BL 1	120.20	0.123	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.468	0.09	0.00	0.00	0.00	0.18	2.36
28	BL 1	120.00	0.123	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.466	0.09	0.00	0.00	0.00	0.18	2.36
29	BL 1	119.80	0.124	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.464	0.09	0.00	0.00	0.00	0.18	2.36
30	BL 1	119.60	0.124	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.462	0.09	0.00	0.00	0.00	0.18	2.36
31	BL 1	119.40	0.125	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.74	8.6	0.019	0.019	7.9	1.461	0.09	0.00	0.00	0.00	0.18	2.36
32	BL 1	119.20	0.125	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.6	0.019	0.019	7.9	1.459	0.09	0.00	0.00	0.00	0.18	2.36
33	BL 1	119.00	0.125	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.019	0.019	7.9	1.457	0.09	0.00	0.00	0.00	0.18	2.36
34	BL 1	118.80	0.126	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.019	0.019	7.9	1.455	0.09	0.00	0.00	0.00	0.18	2.36
35	BL 1	118.60	0.126	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.019	0.019	7.9	1.454	0.09	0.00	0.00	0.00	0.18	2.36
36	BL 1	118.40	0.127	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.020	0.020	7.9	1.452	0.09	0.00	0.00	0.00	0.18	2.36
37	BL 1	118.20	0.127	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.020	0.020	7.9	1.450	0.09	0.00	0.00	0.00	0.18	2.36
38	BL 1	118.00	0.128	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.020	0.020	7.9	1.448	0.09	0.00	0.00	0.00	0.18	2.36
39	BL 1	117.80	0.128	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.75	8.7	0.020	0.020	7.9	1.447	0.09	0.00	0.00	0.00	0.18	2.36
40	BL 1	117.60	0.129	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.445	0.09	0.00	0.00	0.00	0.18	2.36
41	BL 1	117.40	0.129	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.443	0.09	0.00	0.00	0.00	0.18	2.36
42	BL 1	117.20	0.130	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.442	0.09	0.00	0.00	0.00	0.18	2.36
43	BL 1	117.00	0.130	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.440	0.09	0.00	0.00	0.00	0.18	2.36

44	BL	1	116.80	0.131	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.438	0.09	0.00	0.00	0.00	0.18	2.36
45	BL	1	116.60	0.131	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.437	0.09	0.00	0.00	0.00	0.18	2.36
46	BL	1	116.40	0.132	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.435	0.09	0.00	0.00	0.00	0.18	2.36
47	BL	1	116.20	0.132	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	8.7	0.020	0.020	7.9	1.433	0.09	0.00	0.00	0.00	0.18	2.36
48	BL	1	116.00	0.132	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.432	0.09	0.00	0.00	0.00	0.18	2.36
49	BL	1	115.80	0.133	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.430	0.09	0.00	0.00	0.00	0.18	2.36
50	BL	1	115.60	0.133	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.428	0.09	0.00	0.00	0.00	0.18	2.36
51	BL	1	115.40	0.134	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.427	0.09	0.00	0.00	0.00	0.18	2.36
52	BL	1	115.20	0.134	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.425	0.09	0.00	0.00	0.00	0.18	2.36
53	BL	1	115.00	0.135	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.424	0.09	0.00	0.00	0.00	0.18	2.36
54	BL	1	114.80	0.135	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.422	0.09	0.00	0.00	0.00	0.18	2.36
55	BL	1	114.60	0.136	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.420	0.09	0.00	0.00	0.00	0.18	2.36
56	BL	1	114.40	0.136	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.77	8.7	0.020	0.020	7.9	1.419	0.09	0.00	0.00	0.00	0.18	2.36
57	BL	1	114.20	0.137	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	8.7	0.020	0.020	7.9	1.417	0.09	0.00	0.00	0.00	0.18	2.36
58	BL	1	114.00	0.137	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	8.7	0.020	0.020	7.9	1.416	0.09	0.00	0.00	0.00	0.18	2.36
59	BL	1	113.80	0.138	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.7	0.020	0.020	7.9	1.414	0.09	0.00	0.00	0.00	0.18	2.36
60	BL	1	113.60	0.138	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.8	0.020	0.020	7.9	1.413	0.09	0.00	0.00	0.00	0.18	2.36
61	BL	1	113.40	0.139	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.8	0.020	0.020	7.9	1.411	0.09	0.00	0.00	0.00	0.18	2.36
62	BL	1	113.20	0.139	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.8	0.020	0.020	7.9	1.410	0.09	0.00	0.00	0.00	0.18	2.36
63	BL	1	113.00	0.140	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.8	0.020	0.020	7.9	1.408	0.09	0.00	0.00	0.00	0.18	2.36
64	BL	1	112.80	0.140	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.78	8.8	0.020	0.020	7.9	1.407	0.09	0.00	0.00	0.00	0.18	2.36
65	BL	1	112.60	0.140	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.020	0.020	7.9	1.405	0.09	0.00	0.00	0.00	0.18	2.36
66	BL	1	112.40	0.141	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.020	0.020	7.9	1.404	0.09	0.00	0.00	0.00	0.18	2.36
67	BL	1	112.20	0.141	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.020	0.020	7.9	1.402	0.09	0.00	0.00	0.00	0.18	2.36
68	BL	1	112.00	0.142	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.020	0.020	7.9	1.401	0.09	0.00	0.00	0.00	0.18	2.36
69	BL	1	111.80	0.142	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.021	0.021	7.9	1.399	0.09	0.00	0.00	0.00	0.18	2.36
70	BL	1	111.60	0.143	27.7	0.0	6.1	1.6	0.0	0.9	0.1	20.0	0.0	0.79	8.8	0.021	0.021	7.9	1.398	0.09	0.00	0.00	0.00	0.18	2.36
71	BL	2	111.40	0.143	27.7	0.0	6.0	1.6	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.851	0.09	0.00	0.00	0.00	0.18	2.63
72	BL	2	111.20	0.144	27.7	0.0	6.0	1.6	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.849	0.09	0.00	0.00	0.00	0.18	2.63

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
73	BL 2	111.00	0.144	27.7	0.0	6.0	1.6	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.847	0.09	0.00	0.00	0.00	0.18	2.63
74	BL 2	110.80	0.145	27.7	0.0	6.0	1.6	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.845	0.09	0.00	0.00	0.00	0.18	2.63
75	BL 2	110.60	0.145	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.843	0.09	0.00	0.00	0.00	0.18	2.63
76	BL 2	110.40	0.146	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.63	9.4	0.024	0.024	7.9	1.841	0.09	0.00	0.00	0.00	0.18	2.63
77	BL 2	110.20	0.146	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.4	0.024	0.024	7.9	1.840	0.09	0.00	0.00	0.00	0.18	2.63
78	BL 2	110.00	0.147	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.024	0.024	7.9	1.838	0.09	0.00	0.00	0.00	0.18	2.63
79	BL 2	109.80	0.147	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.024	0.024	7.9	1.836	0.09	0.00	0.00	0.00	0.18	2.63
80	BL 2	109.60	0.147	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.024	0.024	7.9	1.834	0.09	0.00	0.00	0.00	0.18	2.63
81	BL 2	109.40	0.148	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.024	0.024	7.9	1.833	0.09	0.00	0.00	0.00	0.18	2.63
82	BL 2	109.20	0.148	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.831	0.09	0.00	0.00	0.00	0.18	2.63
83	BL 2	109.00	0.149	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.829	0.09	0.00	0.00	0.00	0.18	2.63
84	BL 2	108.80	0.149	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.827	0.09	0.00	0.00	0.00	0.18	2.63
85	BL 2	108.60	0.150	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.826	0.09	0.00	0.00	0.00	0.18	2.63
86	BL 2	108.40	0.150	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.824	0.09	0.00	0.00	0.00	0.18	2.63
87	BL 2	108.20	0.151	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.64	9.5	0.025	0.025	7.9	1.822	0.09	0.00	0.00	0.00	0.18	2.63
88	BL 2	108.00	0.151	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.821	0.09	0.00	0.00	0.00	0.18	2.63
89	BL 2	107.80	0.152	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.819	0.09	0.00	0.00	0.00	0.18	2.63
90	BL 2	107.60	0.152	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.817	0.09	0.00	0.00	0.00	0.18	2.63
91	BL 2	107.40	0.153	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.815	0.09	0.00	0.00	0.00	0.18	2.63
92	BL 2	107.20	0.153	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.814	0.09	0.00	0.00	0.00	0.18	2.63
93	BL 2	107.00	0.154	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.812	0.09	0.00	0.00	0.00	0.18	2.63
94	BL 2	106.80	0.154	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.811	0.09	0.00	0.00	0.00	0.18	2.63
95	BL 2	106.60	0.155	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.809	0.09	0.00	0.00	0.00	0.18	2.63
96	BL 2	106.40	0.155	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.807	0.09	0.00	0.00	0.00	0.18	2.63
97	BL 2	106.20	0.155	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.806	0.09	0.00	0.00	0.00	0.18	2.63
98	BL 2	106.00	0.156	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.65	9.5	0.025	0.025	7.9	1.804	0.09	0.00	0.00	0.00	0.18	2.63
99	BL 2	105.80	0.156	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.802	0.09	0.00	0.00	0.00	0.18	2.63
100	BL 2	105.60	0.157	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.801	0.09	0.00	0.00	0.00	0.18	2.63
101	BL 2	105.40	0.157	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.799	0.09	0.00	0.00	0.00	0.18	2.63
102	BL 2	105.20	0.158	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.798	0.09	0.00	0.00	0.00	0.18	2.63
103	BL 2	105.00	0.158	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.796	0.09	0.00	0.00	0.00	0.18	2.63
104	BL 2	104.80	0.159	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.794	0.09	0.00	0.00	0.00	0.18	2.63
105	BL 2	104.60	0.159	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.793	0.09	0.00	0.00	0.00	0.18	2.63
106	BL 2	104.40	0.160	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.5	0.025	0.025	7.9	1.791	0.09	0.00	0.00	0.00	0.18	2.63
107	BL 2	104.20	0.160	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.6	0.025	0.025	7.9	1.790	0.09	0.00	0.00	0.00	0.18	2.63
108	BL 2	104.00	0.161	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.6	0.025	0.025	7.9	1.788	0.09	0.00	0.00	0.00	0.18	2.63
109	BL 2	103.80	0.161	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.6	0.025	0.025	7.9	1.786	0.09	0.00	0.00	0.00	0.18	2.63
110	BL 2	103.60	0.162	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.66	9.6	0.025	0.025	7.9	1.785	0.09	0.00	0.00	0.00	0.18	2.63
111	BL 2	103.40	0.162	27.7	0.0	5.9	1.7	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.025	0.025	7.9	1.783	0.09	0.00	0.00	0.00	0.18	2.63
112	BL 2	103.20	0.162	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.025	0.025	7.9	1.782	0.09	0.00	0.00	0.00	0.18	2.63
113	BL 2	103.00	0.163	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.026	0.026	7.9	1.780	0.09	0.00	0.00	0.00	0.18	2.63
114	BL 2	102.80	0.163	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.026	0.026	7.9	1.779	0.09	0.00	0.00	0.00	0.18	2.63
115	BL 2	102.60	0.164	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.026	0.026	7.9	1.777	0.09	0.00	0.00	0.00	0.18	2.63
116	BL 2	102.40	0.164	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.026	0.026	7.9	1.776	0.09	0.00	0.00	0.00	0.18	2.63
117	BL 2	102.20	0.165	27.7	0.0	5.9	1.8	0.0	0.9	0.1	20.0	0.0	0.67	9.6	0.026	0.026	7.9	1.774	0.09	0.00	0.00	0.00	0.18	2.63

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118 BL  2  102.00   0.165 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.67   9.6  0.026  0.026   7.9  1.773 0.09 0.00 0.00 0.00 0.18  2.63
      WASTELOAD # 119 (NPS Kepler Creek) ENTERS HERE
119 BL  2  101.80   0.189 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.71   9.7  0.027  0.027   7.9  1.705 0.09 0.00 0.00 0.00 0.18  2.63
120 BL  2  101.60   0.189 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.71   9.7  0.027  0.027   7.9  1.704 0.09 0.00 0.00 0.00 0.18  2.63
121 BL  2  101.40   0.190 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.71   9.7  0.027  0.027   7.9  1.702 0.09 0.00 0.00 0.00 0.18  2.63
122 BL  2  101.20   0.190 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.701 0.09 0.00 0.00 0.00 0.18  2.63
123 BL  2  101.00   0.191 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.700 0.09 0.00 0.00 0.00 0.18  2.63
124 BL  2  100.80   0.191 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.699 0.09 0.00 0.00 0.00 0.18  2.63
125 BL  2  100.60   0.192 27.7  0.0  5.9   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.698 0.09 0.00 0.00 0.00 0.18  2.63
126 BL  2  100.40   0.192 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.696 0.09 0.00 0.00 0.00 0.18  2.63
127 BL  2  100.20   0.193 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.695 0.09 0.00 0.00 0.00 0.18  2.63
128 BL  2  100.00   0.193 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.694 0.09 0.00 0.00 0.00 0.18  2.63
129 BL  2   99.80   0.193 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.693 0.09 0.00 0.00 0.00 0.18  2.63
130 BL  2   99.60   0.194 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.027  0.027   7.9  1.692 0.09 0.00 0.00 0.00 0.18  2.63
131 BL  2   99.40   0.194 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.028  0.028   7.9  1.690 0.09 0.00 0.00 0.00 0.18  2.63
132 BL  2   99.20   0.195 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.028  0.028   7.9  1.689 0.09 0.00 0.00 0.00 0.18  2.63
133 BL  2   99.00   0.195 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.028  0.028   7.9  1.688 0.09 0.00 0.00 0.00 0.18  2.63
134 BL  2   98.80   0.196 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.72   9.8  0.028  0.028   7.9  1.687 0.09 0.00 0.00 0.00 0.18  2.63
135 BL  2   98.60   0.196 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.686 0.09 0.00 0.00 0.00 0.18  2.63
136 BL  2   98.40   0.197 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.685 0.09 0.00 0.00 0.00 0.18  2.63
137 BL  2   98.20   0.197 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.683 0.09 0.00 0.00 0.00 0.18  2.63
138 BL  2   98.00   0.198 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.682 0.09 0.00 0.00 0.00 0.18  2.63
139 BL  2   97.80   0.198 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.681 0.09 0.00 0.00 0.00 0.18  2.63
140 BL  2   97.60   0.199 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.680 0.09 0.00 0.00 0.00 0.18  2.63
141 BL  2   97.40   0.199 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.73   9.8  0.028  0.028   7.9  1.679 0.09 0.00 0.00 0.00 0.18  2.63
      WASTELOAD # 142 (NPS FourMile Creek) ENTERS HERE
142 BL  2   97.20   0.216 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.76   9.9  0.029  0.029   7.9  1.641 0.09 0.00 0.00 0.00 0.18  2.63
143 BL  2   97.00   0.216 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.76   9.9  0.029  0.029   7.9  1.640 0.09 0.00 0.00 0.00 0.18  2.63
144 BL  2   96.80   0.217 27.7  0.0  6.0   1.8   0.0  0.9  0.1 20.0    0.0   0.76   9.9  0.029  0.029   7.9  1.639 0.09 0.00 0.00 0.00 0.18  2.63
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EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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	g/m²/d
145	BL 2	96.60	0.217	27.7	0.0	6.0	1.8	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.638	0.09	0.00	0.00	0.00	0.18	2.63
146	BL 2	96.40	0.217	27.7	0.0	6.0	1.8	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.637	0.09	0.00	0.00	0.00	0.18	2.63
147	BL 2	96.20	0.218	27.7	0.0	6.0	1.8	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.636	0.09	0.00	0.00	0.00	0.18	2.63
148	BL 2	96.00	0.218	27.7	0.0	6.0	1.8	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.635	0.09	0.00	0.00	0.00	0.18	2.63
149	BL 2	95.80	0.219	27.7	0.0	6.0	1.8	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.634	0.09	0.00	0.00	0.00	0.18	2.63
150	BL 2	95.60	0.219	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.633	0.09	0.00	0.00	0.00	0.18	2.63
151	BL 2	95.40	0.220	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.632	0.09	0.00	0.00	0.00	0.18	2.63
152	BL 2	95.20	0.220	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.76	9.9	0.029	0.029	7.9	1.631	0.09	0.00	0.00	0.00	0.18	2.63
153	BL 2	95.00	0.221	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.630	0.09	0.00	0.00	0.00	0.18	2.63
154	BL 2	94.80	0.221	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.629	0.09	0.00	0.00	0.00	0.18	2.63
155	BL 2	94.60	0.222	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.628	0.09	0.00	0.00	0.00	0.18	2.63
156	BL 2	94.40	0.222	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.627	0.09	0.00	0.00	0.00	0.18	2.63
157	BL 2	94.20	0.223	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.626	0.09	0.00	0.00	0.00	0.18	2.63
158	BL 2	94.00	0.223	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.625	0.09	0.00	0.00	0.00	0.18	2.63
159	BL 2	93.80	0.224	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.624	0.09	0.00	0.00	0.00	0.18	2.63
160	BL 2	93.60	0.224	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.623	0.09	0.00	0.00	0.00	0.18	2.63
161	BL 2	93.40	0.224	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.622	0.09	0.00	0.00	0.00	0.18	2.63
162	BL 2	93.20	0.225	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.77	9.9	0.029	0.029	7.9	1.621	0.09	0.00	0.00	0.00	0.18	2.63
163	BL 2	93.00	0.225	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.77	10.0	0.029	0.029	7.9	1.620	0.09	0.00	0.00	0.00	0.18	2.63
164	BL 2	92.80	0.226	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.77	10.0	0.029	0.029	7.9	1.619	0.09	0.00	0.00	0.00	0.18	2.63
165	BL 2	92.60	0.226	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.77	10.0	0.029	0.029	7.9	1.618	0.09	0.00	0.00	0.00	0.18	2.63
166	BL 2	92.40	0.227	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.77	10.0	0.029	0.029	7.9	1.617	0.09	0.00	0.00	0.00	0.18	2.63
167	BL 2	92.20	0.227	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.029	0.029	7.9	1.616	0.09	0.00	0.00	0.00	0.18	2.63
168	BL 2	92.00	0.228	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.029	0.029	7.9	1.615	0.09	0.00	0.00	0.00	0.18	2.63
169	BL 2	91.80	0.228	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.029	0.029	7.9	1.614	0.09	0.00	0.00	0.00	0.18	2.63
170	BL 2	91.60	0.229	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.614	0.09	0.00	0.00	0.00	0.18	2.63
171	BL 2	91.40	0.229	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.613	0.09	0.00	0.00	0.00	0.18	2.63
172	BL 2	91.20	0.230	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.612	0.09	0.00	0.00	0.00	0.18	2.63
173	BL 2	91.00	0.230	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.611	0.09	0.00	0.00	0.00	0.18	2.63
174	BL 2	90.80	0.231	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.610	0.09	0.00	0.00	0.00	0.18	2.63
175	BL 2	90.60	0.231	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.609	0.09	0.00	0.00	0.00	0.18	2.63
176	BL 2	90.40	0.232	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.608	0.09	0.00	0.00	0.00	0.18	2.63
177	BL 2	90.20	0.232	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.607	0.09	0.00	0.00	0.00	0.18	2.63
178	BL 2	90.00	0.232	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.606	0.09	0.00	0.00	0.00	0.18	2.63
179	BL 2	89.80	0.233	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.605	0.09	0.00	0.00	0.00	0.18	2.63
180	BL 2	89.60	0.233	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.78	10.0	0.030	0.030	7.9	1.604	0.09	0.00	0.00	0.00	0.18	2.63
181	BL 2	89.40	0.234	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.603	0.09	0.00	0.00	0.00	0.18	2.63
182	BL 2	89.20	0.234	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.602	0.09	0.00	0.00	0.00	0.18	2.63
183	BL 2	89.00	0.235	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.602	0.09	0.00	0.00	0.00	0.18	2.63
184	BL 2	88.80	0.235	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.601	0.09	0.00	0.00	0.00	0.18	2.63
185	BL 2	88.60	0.236	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.600	0.09	0.00	0.00	0.00	0.18	2.63
186	BL 2	88.40	0.236	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.599	0.09	0.00	0.00	0.00	0.18	2.63
187	BL 2	88.20	0.237	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.598	0.09	0.00	0.00	0.00	0.18	2.63
188	BL 2	88.00	0.237	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.597	0.09	0.00	0.00	0.00	0.18	2.63
189	BL 2	87.80	0.238	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.596	0.09	0.00	0.00	0.00	0.18	2.63

190	BL	2	87.60	0.238	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.595	0.09	0.00	0.00	0.00	0.18	2.63
191	BL	2	87.40	0.239	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.594	0.09	0.00	0.00	0.00	0.18	2.63
192	BL	2	87.20	0.239	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.594	0.09	0.00	0.00	0.00	0.18	2.63
193	BL	2	87.00	0.239	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.593	0.09	0.00	0.00	0.00	0.18	2.63
194	BL	2	86.80	0.240	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.79	10.0	0.030	0.030	7.9	1.592	0.09	0.00	0.00	0.00	0.18	2.63
195	BL	2	86.60	0.240	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.591	0.09	0.00	0.00	0.00	0.18	2.63
196	BL	2	86.40	0.241	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.590	0.09	0.00	0.00	0.00	0.18	2.63
197	BL	2	86.20	0.241	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.589	0.09	0.00	0.00	0.00	0.18	2.63
198	BL	2	86.00	0.242	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.588	0.09	0.00	0.00	0.00	0.18	2.63
199	BL	2	85.80	0.242	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.587	0.09	0.00	0.00	0.00	0.18	2.63
200	BL	2	85.60	0.243	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.587	0.09	0.00	0.00	0.00	0.18	2.63
201	BL	2	85.40	0.243	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.586	0.09	0.00	0.00	0.00	0.18	2.63
202	BL	2	85.20	0.244	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.585	0.09	0.00	0.00	0.00	0.18	2.63
203	BL	2	85.00	0.244	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.0	0.030	0.030	7.9	1.584	0.09	0.00	0.00	0.00	0.18	2.63
204	BL	2	84.80	0.245	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.030	0.030	7.9	1.583	0.09	0.00	0.00	0.00	0.18	2.63
205	BL	2	84.60	0.245	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.030	0.030	7.9	1.582	0.09	0.00	0.00	0.00	0.18	2.63
206	BL	2	84.40	0.246	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.030	0.030	7.9	1.581	0.09	0.00	0.00	0.00	0.18	2.63
207	BL	2	84.20	0.246	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.030	0.030	7.9	1.581	0.09	0.00	0.00	0.00	0.18	2.63
208	BL	2	84.00	0.247	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.030	0.030	7.9	1.580	0.09	0.00	0.00	0.00	0.18	2.63
209	BL	2	83.80	0.247	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.80	10.1	0.031	0.031	7.9	1.579	0.09	0.00	0.00	0.00	0.18	2.63
210	BL	2	83.60	0.247	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.578	0.09	0.00	0.00	0.00	0.18	2.63
211	BL	2	83.40	0.248	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.577	0.09	0.00	0.00	0.00	0.18	2.63
212	BL	2	83.20	0.248	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.576	0.09	0.00	0.00	0.00	0.18	2.63
213	BL	2	83.00	0.249	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.576	0.09	0.00	0.00	0.00	0.18	2.63
214	BL	2	82.80	0.249	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.575	0.09	0.00	0.00	0.00	0.18	2.63
215	BL	2	82.60	0.250	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.574	0.09	0.00	0.00	0.00	0.18	2.63
216	BL	2	82.40	0.250	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.573	0.09	0.00	0.00	0.00	0.18	2.63
217	BL	2	82.20	0.251	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.572	0.09	0.00	0.00	0.00	0.18	2.63
218	BL	2	82.00	0.251	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.572	0.09	0.00	0.00	0.00	0.18	2.63

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	ADVEC DEPTH	MEAN WIDTH	DO VELO	REAER VELO	BOD1 SAT	BOD1 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
219	BL 2	81.80	0.252	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.571	0.09	0.00	0.00	0.00	0.18	2.63
220	BL 2	81.60	0.252	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.570	0.09	0.00	0.00	0.00	0.18	2.63
221	BL 2	81.40	0.253	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.569	0.09	0.00	0.00	0.00	0.18	2.63
222	BL 2	81.20	0.253	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.568	0.09	0.00	0.00	0.00	0.18	2.63
223	BL 2	81.00	0.254	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.81	10.1	0.031	0.031	7.9	1.567	0.09	0.00	0.00	0.00	0.18	2.63
224	BL 2	80.80	0.254	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.567	0.09	0.00	0.00	0.00	0.18	2.63
225	BL 2	80.60	0.254	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.566	0.09	0.00	0.00	0.00	0.18	2.63
226	BL 2	80.40	0.255	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.565	0.09	0.00	0.00	0.00	0.18	2.63
227	BL 2	80.20	0.255	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.564	0.09	0.00	0.00	0.00	0.18	2.63
228	BL 2	80.00	0.256	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.563	0.09	0.00	0.00	0.00	0.18	2.63
229	BL 2	79.80	0.256	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.563	0.09	0.00	0.00	0.00	0.18	2.63
230	BL 2	79.60	0.257	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.82	10.1	0.031	0.031	7.9	1.562	0.09	0.00	0.00	0.00	0.18	2.63
WASTELOAD # 231 (NPS Castor Creek) ENTERS HERE																								
231	BL 2	79.40	0.275	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.532	0.09	0.00	0.00	0.00	0.18	2.63
232	BL 2	79.20	0.276	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.531	0.09	0.00	0.00	0.00	0.18	2.63
233	BL 2	79.00	0.276	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.531	0.09	0.00	0.00	0.00	0.18	2.63
234	BL 2	78.80	0.277	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.530	0.09	0.00	0.00	0.00	0.18	2.63
235	BL 2	78.60	0.277	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.529	0.09	0.00	0.00	0.00	0.18	2.63
236	BL 2	78.40	0.278	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.529	0.09	0.00	0.00	0.00	0.18	2.63
237	BL 2	78.20	0.278	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.528	0.09	0.00	0.00	0.00	0.18	2.63
238	BL 2	78.00	0.279	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.527	0.09	0.00	0.00	0.00	0.18	2.63
239	BL 2	77.80	0.279	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.526	0.09	0.00	0.00	0.00	0.18	2.63
240	BL 2	77.60	0.280	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.526	0.09	0.00	0.00	0.00	0.18	2.63
241	BL 2	77.40	0.280	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.85	10.2	0.032	0.032	7.9	1.525	0.09	0.00	0.00	0.00	0.18	2.63
242	BL 3	77.20	0.280	27.7	0.0	6.1	1.7	0.0	0.9	0.1	20.0	0.0	0.94	11.8	0.025	0.025	7.9	1.265	0.09	0.00	0.00	0.00	0.18	3.22
243	BL 3	77.00	0.281	27.7	0.0	6.0	1.7	0.0	0.9	0.1	20.0	0.0	0.94	11.8	0.025	0.025	7.9	1.265	0.09	0.00	0.00	0.00	0.18	3.22
244	BL 3	76.80	0.281	27.8	0.0	6.0	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.9	1.264	0.09	0.00	0.00	0.00	0.18	3.23
245	BL 3	76.60	0.282	27.8	0.0	5.9	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.9	1.264	0.09	0.00	0.00	0.00	0.18	3.23
246	BL 3	76.40	0.282	27.8	0.0	5.9	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.9	1.264	0.09	0.00	0.00	0.00	0.18	3.24
247	BL 3	76.20	0.283	27.8	0.0	5.8	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.9	1.264	0.09	0.00	0.00	0.00	0.18	3.24
248	BL 3	76.00	0.283	27.9	0.0	5.8	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.264	0.09	0.00	0.00	0.00	0.18	3.25
249	BL 3	75.80	0.284	27.9	0.0	5.8	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.264	0.09	0.00	0.00	0.00	0.18	3.25
250	BL 3	75.60	0.284	27.9	0.0	5.7	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.264	0.09	0.00	0.00	0.00	0.18	3.26
251	BL 3	75.40	0.285	27.9	0.0	5.7	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.264	0.09	0.00	0.00	0.00	0.18	3.26
252	BL 3	75.20	0.285	27.9	0.0	5.7	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.27
253	BL 3	75.00	0.286	28.0	0.0	5.7	1.6	0.0	0.9	0.1	20.0	0.0	0.94	11.9	0.025	0.025	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.27
254	BL 3	74.80	0.286	28.0	0.0	5.7	1.6	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.025	0.025	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.27
255	BL 3	74.60	0.287	28.0	0.0	5.6	1.6	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.28
256	BL 3	74.40	0.287	28.0	0.0	5.6	1.6	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.28
257	BL 3	74.20	0.288	28.1	0.0	5.6	1.6	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.29
258	BL 3	74.00	0.288	28.1	0.0	5.6	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.29
259	BL 3	73.80	0.288	28.1	0.0	5.6	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.30
260	BL 3	73.60	0.289	28.1	0.0	5.6	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.263	0.09	0.00	0.00	0.00	0.18	3.30
261	BL 3	73.40	0.289	28.1	0.0	5.6	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.31
262	BL 3	73.20	0.290	28.2	0.0	5.6	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.31

263	BL	3	73.00	0.290	28.2	0.0	5.5	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.32
264	BL	3	72.80	0.291	28.2	0.0	5.5	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.32
265	BL	3	72.60	0.291	28.2	0.0	5.5	1.5	0.0	0.9	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.33
266	BL	3	72.40	0.292	28.3	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.33
267	BL	3	72.20	0.292	28.3	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.33
268	BL	3	72.00	0.293	28.3	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.95	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.34
269	BL	3	71.80	0.293	28.3	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.262	0.09	0.00	0.00	0.00	0.18	3.34
270	BL	3	71.60	0.294	28.3	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.35
271	BL	3	71.40	0.294	28.4	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.35
272	BL	3	71.20	0.295	28.4	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.36
273	BL	3	71.00	0.295	28.4	0.0	5.5	1.5	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.36
274	BL	3	70.80	0.295	28.4	0.0	5.5	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.37
275	BL	3	70.60	0.296	28.5	0.0	5.5	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.37
276	BL	3	70.40	0.296	28.5	0.0	5.5	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.38
277	BL	3	70.20	0.297	28.5	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.38
278	BL	3	70.00	0.297	28.5	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.39
279	BL	3	69.80	0.298	28.5	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.8	1.261	0.09	0.00	0.00	0.00	0.18	3.39
280	BL	3	69.60	0.298	28.6	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.40
281	BL	3	69.40	0.299	28.6	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.40
282	BL	3	69.20	0.299	28.6	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.96	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.41
283	BL	3	69.00	0.300	28.6	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.41
284	BL	3	68.80	0.300	28.7	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.42
285	BL	3	68.60	0.301	28.7	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.42
286	BL	3	68.40	0.301	28.7	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	11.9	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.42
287	BL	3	68.20	0.302	28.7	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.43
288	BL	3	68.00	0.302	28.7	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.43
289	BL	3	67.80	0.303	28.8	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.44
290	BL	3	67.60	0.303	28.8	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.44
291	BL	3	67.40	0.303	28.8	0.0	5.4	1.4	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.260	0.09	0.00	0.00	0.00	0.19	3.45

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
292	BL 3	67.20	0.304	28.8	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.45
293	BL 3	67.00	0.304	28.9	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.46
294	BL 3	66.80	0.305	28.9	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.46
295	BL 3	66.60	0.305	28.9	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.47
296	BL 3	66.40	0.306	28.9	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.47
297	BL 3	66.20	0.306	28.9	0.0	5.4	1.3	0.0	1.0	0.1	20.0	0.0	0.97	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.48
298	BL 3	66.00	0.307	29.0	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.48
299	BL 3	65.80	0.307	29.0	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.49
300	BL 3	65.60	0.308	29.0	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.49
301	BL 3	65.40	0.308	29.0	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.50
302	BL 3	65.20	0.309	29.1	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.50
303	BL 3	65.00	0.309	29.1	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.259	0.09	0.00	0.00	0.00	0.19	3.51
304	BL 3	64.80	0.310	29.1	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.51
305	BL 3	64.60	0.310	29.1	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.52
306	BL 3	64.40	0.310	29.1	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.52
307	BL 3	64.20	0.311	29.2	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.53
308	BL 3	64.00	0.311	29.2	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.53
309	BL 3	63.80	0.312	29.2	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.54
310	BL 3	63.60	0.312	29.2	0.0	5.3	1.3	0.0	1.0	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.54
311	BL 3	63.40	0.313	29.3	0.0	5.3	1.3	0.0	1.1	0.1	20.0	0.0	0.98	12.0	0.026	0.026	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.55
312	BL 3	63.20	0.313	29.3	0.0	5.3	1.3	0.0	1.1	0.1	20.0	0.0	0.98	12.0	0.027	0.027	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.55
313	BL 3	63.00	0.314	29.3	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.7	1.258	0.09	0.00	0.00	0.00	0.19	3.56
314	BL 3	62.80	0.314	29.3	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.258	0.09	0.00	0.00	0.00	0.19	3.56
315	BL 3	62.60	0.315	29.3	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.258	0.09	0.00	0.00	0.00	0.19	3.57
316	BL 3	62.40	0.315	29.4	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.258	0.09	0.00	0.00	0.00	0.19	3.57
317	BL 3	62.20	0.316	29.4	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.258	0.09	0.00	0.00	0.00	0.19	3.58
318	BL 3	62.00	0.316	29.4	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.258	0.09	0.00	0.00	0.00	0.19	3.58
319	BL 3	61.80	0.317	29.4	0.0	5.3	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.19	3.59
320	BL 3	61.60	0.317	29.5	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.59
321	BL 3	61.40	0.318	29.5	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.60
322	BL 3	61.20	0.318	29.5	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.60
323	BL 3	61.00	0.318	29.5	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.61
324	BL 3	60.80	0.319	29.5	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.61
325	BL 3	60.60	0.319	29.6	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.62
326	BL 3	60.40	0.320	29.6	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.62
327	BL 3	60.20	0.320	29.6	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	0.99	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.63
328	BL 3	60.00	0.321	29.6	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.63
329	BL 3	59.80	0.321	29.7	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.64
330	BL 3	59.60	0.322	29.7	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.64
331	BL 3	59.40	0.322	29.7	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.65
332	BL 3	59.20	0.323	29.7	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.0	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.65
333	BL 3	59.00	0.323	29.7	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.66
334	BL 3	58.80	0.324	29.8	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.66
335	BL 3	58.60	0.324	29.8	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.67
336	BL 3	58.40	0.325	29.8	0.0	5.2	1.2	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.67

337	BL	3	58.20	0.325	29.8	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.257	0.09	0.00	0.00	0.00	0.20	3.68
338	BL	3	58.00	0.325	29.9	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.68
339	BL	3	57.80	0.326	29.9	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.69
340	BL	3	57.60	0.326	29.9	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.69
341	BL	3	57.40	0.327	29.9	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.70
342	BL	3	57.20	0.327	29.9	0.0	5.2	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.70
343	BL	3	57.00	0.328	30.0	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.00	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.71
344	BL	3	56.80	0.328	30.0	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.6	1.256	0.09	0.00	0.00	0.00	0.20	3.71
345	BL	3	56.60	0.329	30.0	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.6	1.256	0.10	0.00	0.00	0.00	0.20	3.72
346	BL	3	56.40	0.329	30.0	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.6	1.256	0.10	0.00	0.00	0.00	0.20	3.72
347	BL	3	56.20	0.330	30.1	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.6	1.256	0.10	0.00	0.00	0.00	0.20	3.73
348	BL	3	56.00	0.330	30.1	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.73
349	BL	3	55.80	0.331	30.1	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.74
350	BL	3	55.60	0.331	30.1	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.75
351	BL	3	55.40	0.332	30.1	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.75
352	BL	3	55.20	0.332	30.2	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.76
353	BL	3	55.00	0.333	30.2	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.76
354	BL	3	54.80	0.333	30.2	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.77
355	BL	3	54.60	0.333	30.2	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.77
356	BL	3	54.40	0.334	30.3	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.20	3.78
357	BL	3	54.20	0.334	30.3	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.78
358	BL	3	54.00	0.335	30.3	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.01	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.79
359	BL	3	53.80	0.335	30.3	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.79
360	BL	3	53.60	0.336	30.3	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.80
361	BL	3	53.40	0.336	30.4	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.80
362	BL	3	53.20	0.337	30.4	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.81
363	BL	3	53.00	0.337	30.4	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.81
364	BL	3	52.80	0.338	30.4	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.256	0.10	0.00	0.00	0.00	0.21	3.82
365	BL	3	52.60	0.338	30.5	0.0	5.1	1.1	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.82

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
366	BL 3	52.40	0.339	30.5	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.83
367	BL 3	52.20	0.339	30.5	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.84
368	BL 3	52.00	0.340	30.5	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.84
369	BL 3	51.80	0.340	30.5	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.85
370	BL 3	51.60	0.340	30.6	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.85
371	BL 3	51.40	0.341	30.6	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.86
372	BL 3	51.20	0.341	30.6	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.027	0.027	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.86
373	BL 3	51.00	0.342	30.6	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.028	0.028	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.87
374	BL 3	50.80	0.342	30.7	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.02	12.1	0.028	0.028	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.87
375	BL 3	50.60	0.343	30.7	0.0	5.0	1.0	0.0	1.1	0.1	20.0	0.0	1.03	12.1	0.028	0.028	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.88
376	BL 3	50.40	0.343	30.7	0.0	5.0	1.0	0.0	1.2	0.1	20.0	0.0	1.03	12.1	0.028	0.028	7.5	1.255	0.10	0.00	0.00	0.00	0.21	3.88
377	BL 4	50.20	0.344	30.7	0.0	5.2	2.6	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
378	BL 4	50.00	0.344	30.7	0.0	5.1	3.3	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
379	BL 4	49.80	0.345	30.7	0.0	5.0	3.6	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
380	BL 4	49.60	0.345	30.7	0.0	5.0	3.8	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
381	BL 4	49.40	0.346	30.7	0.0	5.0	3.8	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
382	BL 4	49.20	0.346	30.7	0.0	5.0	3.8	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
383	BL 4	49.00	0.347	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
384	BL 4	48.80	0.347	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
385	BL 4	48.60	0.348	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
386	BL 4	48.40	0.348	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
387	BL 4	48.20	0.348	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
WASTELOAD # 388 (NPS Grand Bayou) ENTERS HERE																							
388	BL 4	48.00	0.352	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
389	BL 4	47.80	0.352	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
390	BL 4	47.60	0.353	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
391	BL 4	47.40	0.353	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
392	BL 4	47.20	0.354	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
393	BL 4	47.00	0.354	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
394	BL 4	46.80	0.355	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
395	BL 4	46.60	0.355	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
396	BL 4	46.40	0.356	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
397	BL 4	46.20	0.356	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
398	BL 4	46.00	0.357	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
399	BL 4	45.80	0.357	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
400	BL 4	45.60	0.358	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
401	BL 4	45.40	0.358	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
402	BL 4	45.20	0.358	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
403	BL 4	45.00	0.359	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
404	BL 4	44.80	0.359	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
405	BL 4	44.60	0.360	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
406	BL 4	44.40	0.360	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
407	BL 4	44.20	0.361	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
408	BL 4	44.00	0.361	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
409	BL 4	43.80	0.362	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94

410	BL	4	43.60	0.362	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
411	BL	4	43.40	0.363	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
412	BL	4	43.20	0.363	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
413	BL	4	43.00	0.364	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
414	BL	4	42.80	0.364	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
415	BL	4	42.60	0.365	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
416	BL	4	42.40	0.365	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
417	BL	4	42.20	0.366	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
418	BL	4	42.00	0.366	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
419	BL	4	41.80	0.366	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
420	BL	4	41.60	0.367	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
421	BL	4	41.40	0.367	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
422	BL	4	41.20	0.368	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
423	BL	4	41.00	0.368	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
424	BL	4	40.80	0.369	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
425	BL	4	40.60	0.369	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
426	BL	4	40.40	0.370	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
427	BL	4	40.20	0.370	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
428	BL	4	40.00	0.371	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
429	BL	4	39.80	0.371	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
430	BL	4	39.60	0.372	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
431	BL	4	39.40	0.372	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
432	BL	4	39.20	0.373	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
433	BL	4	39.00	0.373	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
434	BL	4	38.80	0.373	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
435	BL	4	38.60	0.374	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
436	BL	4	38.40	0.374	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
437	BL	4	38.20	0.375	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
438	BL	4	38.00	0.375	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	ADVEC DISP m²/s	MEAN DEPTH m	DO WIDTH m	REAER VELO m/s	BOD1 VELO m/s	BOD1 SAT mg/L	BOD2 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	SOD DECA 1/da	SOD g/m²/d
439	BL 4	37.80	0.376	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
440	BL 4	37.60	0.376	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
441	BL 4	37.40	0.377	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
442	BL 4	37.20	0.377	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
443	BL 4	37.00	0.378	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
444	BL 4	36.80	0.378	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
445	BL 4	36.60	0.379	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
446	BL 4	36.40	0.379	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
447	BL 4	36.20	0.380	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
448	BL 4	36.00	0.380	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
449	BL 4	35.80	0.380	30.7	0.0	5.0	3.9	0.0	1.1	0.1	20.0	0.0	1.521	297.0	0.000	0.000	7.5	0.641	0.10	0.00	0.00	0.00	0.21	2.94
450	CL 5	35.60	0.381	30.7	0.0	6.1	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
451	CL 5	35.40	0.381	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
452	CL 5	35.20	0.382	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
453	CL 5	35.00	0.382	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
454	CL 5	34.80	0.383	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
455	CL 5	34.60	0.383	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
456	CL 5	34.40	0.384	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
457	CL 5	34.20	0.384	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
458	CL 5	34.00	0.385	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
459	CL 5	33.80	0.385	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
460	CL 5	33.60	0.386	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
461	CL 5	33.40	0.386	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
462	CL 5	33.20	0.387	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
463	CL 5	33.00	0.387	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
464	CL 5	32.80	0.388	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
465	CL 5	32.60	0.388	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
466	CL 5	32.40	0.388	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
467	CL 5	32.20	0.389	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
468	CL 5	32.00	0.389	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
469	CL 5	31.80	0.390	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
470	CL 5	31.60	0.390	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
471	CL 5	31.40	0.391	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
472	CL 5	31.20	0.391	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
473	CL 5	31.00	0.392	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
474	CL 5	30.80	0.392	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
475	CL 5	30.60	0.393	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
476	CL 5	30.40	0.393	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
477	CL 5	30.20	0.394	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
478	CL 5	30.00	0.394	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
479	CL 5	29.80	0.395	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
480	CL 5	29.60	0.395	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
481	CL 5	29.40	0.396	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
482	CL 5	29.20	0.396	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01
483	CL 5	29.00	0.396	30.7	0.0	6.2	3.9	0.0	1.1	0.1	20.0	0.0	4.971	699.0	0.000	0.000	7.5	0.196	0.10	0.00	0.00	0.00	0.22	3.01

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484 CL  5  28.80  0.397 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
485 CL  5  28.60  0.397 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
486 CL  5  28.40  0.398 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
487 CL  5  28.20  0.398 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
488 CL  5  28.00  0.399 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
489 CL  5  27.80  0.399 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
490 CL  5  27.60  0.400 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
491 CL  5  27.40  0.400 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
492 CL  5  27.20  0.401 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
493 CL  5  27.00  0.401 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
494 CL  5  26.80  0.402 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
495 CL  5  26.60  0.402 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
496 CL  5  26.40  0.403 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
497 CL  5  26.20  0.403 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
498 CL  5  26.00  0.404 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
499 CL  5  25.80  0.404 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
500 CL  5  25.60  0.404 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
501 CL  5  25.40  0.405 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
502 CL  5  25.20  0.405 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
503 CL  5  25.00  0.406 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
504 CL  5  24.80  0.406 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
      DIVERSION # 505 (NPS Clear Lake out) LEAVES HERE
505 CL  5  24.60  0.204 30.7  0.0  6.2  3.9  0.0  1.1  0.1 20.0   0.0  4.971699.0  0.000  0.000   7.5  0.196 0.10 0.00 0.00 0.00 0.22  3.01
506 PA  6  24.40  0.204 30.7  0.0  5.6  3.9  0.0  1.1  0.1 20.4   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
507 PA  6  24.20  0.204 30.7  0.0  5.4  3.8  0.0  1.1  0.1 20.8   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
508 PA  6  24.00  0.204 30.7  0.0  5.4  3.8  0.0  1.1  0.1 21.3   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
509 PA  6  23.80  0.204 30.7  0.0  5.4  3.8  0.0  1.1  0.1 21.7   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
510 PA  6  23.60  0.204 30.7  0.0  5.5  3.8  0.0  1.1  0.1 22.1   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
511 PA  6  23.40  0.204 30.7  0.0  5.6  3.8  0.0  1.1  0.1 22.5   0.0  5.68 110.0  0.000  0.000   7.5  0.171 0.10 0.00 0.00 0.00 0.21  4.40
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EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
512	PA 6	23.20	0.204	30.7	0.0	5.7	3.8	0.0	1.1	0.1	23.0	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
513	PA 6	23.00	0.204	30.7	0.0	5.8	3.8	0.0	1.1	0.1	23.4	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
514	PA 6	22.80	0.204	30.7	0.0	5.9	3.8	0.0	1.1	0.1	23.8	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
515	PA 6	22.60	0.204	30.7	0.0	6.0	3.8	0.0	1.1	0.1	24.2	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
516	PA 6	22.40	0.204	30.7	0.0	6.1	3.8	0.0	1.1	0.1	24.7	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
517	PA 6	22.20	0.204	30.7	0.0	6.2	3.8	0.0	1.1	0.1	25.1	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
518	PA 6	22.00	0.204	30.7	0.0	6.3	3.8	0.0	1.1	0.1	25.5	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
519	PA 6	21.80	0.204	30.7	0.0	6.4	3.8	0.0	1.1	0.1	25.9	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
520	PA 6	21.60	0.204	30.7	0.0	6.5	3.8	0.0	1.1	0.1	26.4	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
521	PA 6	21.40	0.204	30.7	0.0	6.7	3.8	0.0	1.1	0.1	26.8	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
522	PA 6	21.20	0.204	30.7	0.0	6.8	3.8	0.0	1.1	0.1	27.2	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
523	PA 6	21.00	0.204	30.7	0.0	6.9	3.8	0.0	1.1	0.1	27.6	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
524	PA 6	20.80	0.204	30.7	0.0	7.0	3.8	0.0	1.1	0.1	28.1	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
525	PA 6	20.60	0.204	30.7	0.0	7.1	3.8	0.0	1.1	0.1	28.5	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
526	PA 6	20.40	0.204	30.7	0.0	7.2	3.8	0.0	1.1	0.1	28.9	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
527	PA 6	20.20	0.204	30.7	0.0	7.3	3.8	0.0	1.1	0.1	29.3	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
528	PA 6	20.00	0.204	30.7	0.0	7.4	3.8	0.0	1.0	0.1	29.8	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
529	PA 6	19.80	0.204	30.7	0.0	7.5	3.8	0.0	1.0	0.1	30.2	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
530	PA 6	19.60	0.204	30.7	0.0	7.6	3.8	0.0	1.0	0.1	30.6	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.22	4.40
531	PA 6	19.40	0.204	30.7	0.0	7.7	3.8	0.0	1.0	0.1	31.0	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
532	PA 6	19.20	0.204	30.7	0.0	7.8	3.8	0.0	1.0	0.1	31.5	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
533	PA 6	19.00	0.204	30.7	0.0	7.9	3.8	0.0	1.0	0.1	31.9	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
534	PA 6	18.80	0.204	30.7	0.0	8.0	3.8	0.0	1.0	0.1	32.3	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
535	PA 6	18.60	0.204	30.7	0.0	8.1	3.8	0.0	1.0	0.1	32.7	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
536	PA 6	18.40	0.204	30.7	0.0	8.2	3.8	0.0	1.0	0.1	33.2	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
537	PA 6	18.20	0.204	30.7	0.0	8.3	3.8	0.0	1.0	0.1	33.6	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
538	PA 6	18.00	0.204	30.7	0.0	8.4	3.8	0.0	1.0	0.1	34.0	0.0	5.68	110.0	0.000	0.000	7.5	0.171	0.10	0.00	0.00	0.00	0.23	4.40
WASTELOAD # 539 (NPS Saline Lake) ENTERS HERE																								
539	BB 7	17.80	0.564	30.8	0.0	5.9	3.4	0.0	1.1	0.1	34.8	0.0	5.68	110.0	0.001	0.001	7.5	0.172	0.10	0.00	0.00	0.00	0.22	7.68
540	BB 7	17.60	0.564	30.9	0.0	5.7	3.9	0.0	1.2	0.1	35.6	0.0	5.68	110.0	0.001	0.001	7.4	0.172	0.10	0.00	0.00	0.00	0.22	7.72
541	BB 7	17.40	0.564	30.9	0.0	5.6	4.3	0.0	1.2	0.1	36.4	0.0	5.68	110.0	0.001	0.001	7.4	0.172	0.10	0.00	0.00	0.00	0.22	7.76
542	BB 7	17.20	0.564	31.0	0.0	5.5	4.7	0.0	1.2	0.1	37.2	0.0	5.68	110.0	0.001	0.001	7.4	0.172	0.10	0.00	0.00	0.00	0.22	7.80
543	BB 7	17.00	0.564	31.1	0.0	5.5	4.9	0.0	1.2	0.1	38.0	0.0	5.68	110.0	0.001	0.001	7.4	0.173	0.10	0.00	0.00	0.00	0.22	7.84
544	BB 7	16.80	0.564	31.2	0.0	5.5	5.1	0.0	1.2	0.1	38.8	0.0	5.68	110.0	0.001	0.001	7.4	0.173	0.10	0.00	0.00	0.00	0.22	7.88
545	BB 7	16.60	0.564	31.3	0.0	5.5	5.3	0.0	1.2	0.1	39.6	0.0	5.68	110.0	0.001	0.001	7.4	0.173	0.10	0.00	0.00	0.00	0.22	7.92
546	BB 7	16.40	0.564	31.3	0.0	5.5	5.4	0.0	1.2	0.1	40.4	0.0	5.68	110.0	0.001	0.001	7.4	0.173	0.10	0.00	0.00	0.00	0.22	7.96
547	BB 7	16.20	0.564	31.4	0.0	5.6	5.5	0.0	1.3	0.1	41.2	0.0	5.68	110.0	0.001	0.001	7.4	0.174	0.10	0.00	0.00	0.00	0.23	8.00
548	BB 7	16.00	0.564	31.5	0.0	5.7	5.5	0.0	1.3	0.1	42.0	0.0	5.68	110.0	0.001	0.001	7.4	0.174	0.10	0.00	0.00	0.00	0.23	8.04
TRIBUTARY # 549 (Praire) ENTERS HERE																								
579	SB 10	15.80	0.767	31.5	0.0	5.4	7.3	0.0	1.2	0.1	42.3	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
580	SB 10	15.60	0.767	31.5	0.0	5.3	7.2	0.0	1.2	0.1	42.6	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
581	SB 10	15.40	0.767	31.5	0.0	5.2	7.0	0.0	1.2	0.1	42.9	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
582	SB 10	15.20	0.767	31.5	0.0	5.1	6.9	0.0	1.2	0.1	43.2	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
583	SB 10	15.00	0.767	31.5	0.0	5.1	6.7	0.0	1.2	0.1	43.5	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
584	SB 10	14.80	0.767	31.5	0.0	5.0	6.6	0.0	1.2	0.1	43.8	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61

585	SB	10	14.60	0.767	31.5	0.0	5.0	6.5	0.0	1.2	0.1	44.2	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
586	SB	10	14.40	0.767	31.5	0.0	5.0	6.3	0.0	1.2	0.1	44.5	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
587	SB	10	14.20	0.767	31.5	0.0	5.1	6.2	0.0	1.2	0.1	44.8	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
588	SB	10	14.00	0.767	31.5	0.0	5.1	6.1	0.0	1.2	0.1	45.1	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
589	SB	10	13.80	0.767	31.5	0.0	5.2	6.0	0.0	1.2	0.1	45.4	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
590	SB	10	13.60	0.767	31.5	0.0	5.2	5.9	0.0	1.2	0.1	45.7	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
591	SB	10	13.40	0.767	31.5	0.0	5.3	5.9	0.0	1.2	0.1	46.0	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
592	SB	10	13.20	0.767	31.5	0.0	5.3	5.8	0.0	1.2	0.1	46.3	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.61
593	SB	10	13.00	0.767	31.5	0.0	5.4	5.7	0.0	1.3	0.1	46.6	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
594	SB	10	12.80	0.767	31.5	0.0	5.5	5.6	0.0	1.3	0.1	46.9	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
595	SB	10	12.60	0.767	31.5	0.0	5.5	5.6	0.0	1.3	0.1	47.2	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
596	SB	10	12.40	0.767	31.5	0.0	5.6	5.5	0.0	1.3	0.1	47.5	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
597	SB	10	12.20	0.767	31.5	0.0	5.7	5.5	0.0	1.3	0.1	47.8	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
598	SB	10	12.00	0.767	31.5	0.0	5.8	5.4	0.0	1.3	0.1	48.2	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
599	SB	10	11.80	0.767	31.5	0.0	5.9	5.4	0.0	1.3	0.1	48.5	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
600	SB	10	11.60	0.767	31.5	0.0	5.9	5.3	0.0	1.3	0.1	48.8	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
601	SB	10	11.40	0.767	31.5	0.0	6.0	5.3	0.0	1.3	0.1	49.1	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
602	SB	10	11.20	0.767	31.5	0.0	6.1	5.2	0.0	1.3	0.1	49.4	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
603	SB	10	11.00	0.767	31.5	0.0	6.2	5.2	0.0	1.3	0.1	49.7	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
604	SB	10	10.80	0.767	31.5	0.0	6.3	5.2	0.0	1.3	0.1	50.0	0.0	4.57	50.6	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.61
605	SB	11	10.60	0.767	31.5	0.0	6.3	5.4	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
606	SB	11	10.40	0.767	31.5	0.0	6.3	5.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
607	SB	11	10.20	0.767	31.5	0.0	6.3	5.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
608	SB	11	10.00	0.767	31.5	0.0	6.3	5.9	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
609	SB	11	9.80	0.767	31.5	0.0	6.2	6.1	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
610	SB	11	9.60	0.767	31.5	0.0	6.2	6.2	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
611	SB	11	9.40	0.767	31.5	0.0	6.2	6.4	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
612	SB	11	9.20	0.767	31.5	0.0	6.1	6.5	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
613	SB	11	9.00	0.767	31.5	0.0	6.1	6.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
614	SB 11	8.80	0.767	31.5	0.0	6.0	6.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
615	SB 11	8.60	0.767	31.5	0.0	6.0	6.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
616	SB 11	8.40	0.767	31.5	0.0	6.0	6.9	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
617	SB 11	8.20	0.767	31.5	0.0	5.9	7.0	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
618	SB 11	8.00	0.767	31.5	0.0	5.9	7.0	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
619	SB 11	7.80	0.767	31.5	0.0	5.8	7.1	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
620	SB 11	7.60	0.767	31.5	0.0	5.8	7.2	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
621	SB 11	7.40	0.767	31.5	0.0	5.8	7.2	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
622	SB 11	7.20	0.767	31.5	0.0	5.7	7.3	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
623	SB 11	7.00	0.767	31.5	0.0	5.7	7.3	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
624	SB 11	6.80	0.767	31.5	0.0	5.7	7.4	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
625	SB 11	6.60	0.767	31.5	0.0	5.6	7.4	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
626	SB 11	6.40	0.767	31.5	0.0	5.6	7.5	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
627	SB 11	6.20	0.767	31.5	0.0	5.6	7.5	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
628	SB 11	6.00	0.767	31.5	0.0	5.5	7.5	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
629	SB 11	5.80	0.767	31.5	0.0	5.5	7.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
630	SB 11	5.60	0.767	31.5	0.0	5.5	7.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
631	SB 11	5.40	0.767	31.5	0.0	5.5	7.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
632	SB 11	5.20	0.767	31.5	0.0	5.5	7.6	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
633	SB 11	5.00	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
634	SB 11	4.80	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
635	SB 11	4.60	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.23	7.87
636	SB 11	4.40	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
637	SB 11	4.20	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
638	SB 11	4.00	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
639	SB 11	3.80	0.767	31.5	0.0	5.4	7.7	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
640	SB 11	3.60	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
641	SB 11	3.40	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
642	SB 11	3.20	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
643	SB 11	3.00	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
644	SB 11	2.80	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
645	SB 11	2.60	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
646	SB 11	2.40	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
647	SB 11	2.20	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
648	SB 11	2.00	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
649	SB 11	1.80	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
650	SB 11	1.60	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
651	SB 11	1.40	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
652	SB 11	1.20	0.767	31.5	0.0	5.3	7.8	0.0	1.3	0.1	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
653	SB 11	1.00	0.767	31.5	0.0	5.3	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
654	SB 11	0.80	0.767	31.5	0.0	5.3	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
655	SB 11	0.60	0.767	31.5	0.0	5.2	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
656	SB 11	0.40	0.767	31.5	0.0	5.2	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
657	SB 11	0.20	0.767	31.5	0.0	5.2	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87
658	SB 11	0.00	0.767	31.5	0.0	5.2	7.9	0.0	1.4	0.2	50.0	0.0	4.57	61.5	0.003	0.003	7.4	0.216	0.10	0.00	0.00	0.00	0.22	7.87

EXPANDED CAPSULE SUMMARY FOR Praire

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	ADVEC DISP m	MEAN DEPTH m/s	DO WIDTH m/s	REAER VELO mg/L	BOD1 VELO 1/da	BOD1 SAT 1/da	BOD2 RATE 1/da	BOD2 DECA 1/da	NH3 SETT 1/da	NH3 DECA 1/da	SOD SETT g/m²/d
549	BL 8	5.80	0.203	30.7	0.0	6.4	7.0	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
550	BL 8	5.60	0.203	30.7	0.0	6.3	7.7	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
551	BL 8	5.40	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
552	BL 8	5.20	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
553	BL 8	5.00	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
554	BL 8	4.80	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
555	BL 8	4.60	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
556	BL 8	4.40	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
557	BL 8	4.20	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
558	BL 8	4.00	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
559	BL 8	3.80	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
560	BL 8	3.60	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
561	BL 8	3.40	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
562	BL 8	3.20	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
563	BL 8	3.00	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
564	BL 8	2.80	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
565	BL 8	2.60	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
566	BL 8	2.40	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
567	BL 8	2.20	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
568	BL 8	2.00	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
569	BL 8	1.80	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
570	BL 8	1.60	0.203	30.7	0.0	6.3	7.8	0.0	1.1	0.1	75.0	0.0	0.912	604.0	0.000	0.000	7.5	1.070	0.13	0.00	0.00	0.00	0.22	2.98
571	SB 9	1.40	0.203	30.8	0.0	7.9	9.2	0.0	1.1	0.1	70.9	0.0	3.12	61.0	0.001	0.001	7.5	0.313	0.13	0.00	0.00	0.00	0.23	2.59
572	SB 9	1.20	0.203	30.9	0.0	8.4	10.3	0.0	1.1	0.1	66.8	0.0	3.12	61.0	0.001	0.001	7.4	0.313	0.13	0.00	0.00	0.00	0.23	2.60
573	SB 9	1.00	0.203	31.0	0.0	8.4	11.1	0.0	1.1	0.1	62.6	0.0	3.12	61.0	0.001	0.001	7.4	0.314	0.13	0.00	0.00	0.00	0.23	2.62
574	SB 9	0.80	0.203	31.1	0.0	8.0	11.8	0.0	1.1	0.1	58.5	0.0	3.12	61.0	0.001	0.001	7.4	0.314	0.13	0.00	0.00	0.00	0.23	2.64
575	SB 9	0.60	0.203	31.2	0.0	7.4	12.3	0.0	1.1	0.1	54.4	0.0	3.12	61.0	0.001	0.001	7.4	0.315	0.13	0.00	0.00	0.00	0.23	2.65
576	SB 9	0.40	0.203	31.3	0.0	6.8	12.6	0.0	1.2	0.1	50.2	0.0	3.12	61.0	0.001	0.001	7.4	0.315	0.13	0.00	0.00	0.00	0.23	2.67
577	SB 9	0.20	0.203	31.4	0.0	6.1	12.9	0.0	1.2	0.1	46.1	0.0	3.12	61.0	0.001	0.001	7.4	0.316	0.14	0.00	0.00	0.00	0.23	2.69
578	SB 9	0.00	0.203	31.5	0.0	5.5	13.1	0.0	1.2	0.1	42.0	0.0	3.12	61.0	0.001	0.001	7.4	0.316	0.14	0.00	0.00	0.00	0.23	2.70

SPECIAL REPORT: Black Lake Bayou
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
1	125.400	27.70	0.0	0.0	0.0	5.36	1.71	0.00	1.71	0.00	0.92	0.15	0.02	1.08	0.00	20.0	0.0	0.	0.00
2	125.200	27.70	0.0	0.0	0.0	5.46	1.70	0.00	1.70	0.00	0.92	0.15	0.01	1.08	0.00	20.0	0.0	0.	0.00
3	125.000	27.70	0.0	0.0	0.0	5.54	1.70	0.00	1.70	0.00	0.92	0.15	0.01	1.07	0.00	20.0	0.0	0.	0.00
4	124.800	27.70	0.0	0.0	0.0	5.61	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
5	124.600	27.70	0.0	0.0	0.0	5.67	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
6	124.400	27.70	0.0	0.0	0.0	5.72	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
7	124.200	27.70	0.0	0.0	0.0	5.76	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00

8	124.000	27.70	0.0	0.0	0.0	5.80	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
9	123.800	27.70	0.0	0.0	0.0	5.83	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
10	123.600	27.70	0.0	0.0	0.0	5.85	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
11	123.400	27.70	0.0	0.0	0.0	5.87	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
12	123.200	27.70	0.0	0.0	0.0	5.89	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
13	123.000	27.70	0.0	0.0	0.0	5.91	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
14	122.800	27.70	0.0	0.0	0.0	5.92	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
15	122.600	27.70	0.0	0.0	0.0	5.93	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
16	122.400	27.70	0.0	0.0	0.0	5.94	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
17	122.200	27.70	0.0	0.0	0.0	5.95	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
18	122.000	27.70	0.0	0.0	0.0	5.96	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
19	121.800	27.70	0.0	0.0	0.0	5.97	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
20	121.600	27.70	0.0	0.0	0.0	5.97	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
21	121.400	27.70	0.0	0.0	0.0	5.98	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
22	121.200	27.70	0.0	0.0	0.0	5.98	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
23	121.000	27.70	0.0	0.0	0.0	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
24	120.800	27.70	0.0	0.0	0.0	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
25	120.600	27.70	0.0	0.0	0.0	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
26	120.400	27.70	0.0	0.0	0.0	6.00	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
27	120.200	27.70	0.0	0.0	0.0	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
28	120.000	27.70	0.0	0.0	0.0	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
29	119.800	27.70	0.0	0.0	0.0	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
30	119.600	27.70	0.0	0.0	0.0	6.01	1.68	0.00	1.68	0.00	0.93	0.14	0.00	1.06	0.00	20.0	0.0	0.	0.00
31	119.400	27.70	0.0	0.0	0.0	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
32	119.200	27.70	0.0	0.0	0.0	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
33	119.000	27.70	0.0	0.0	0.0	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
34	118.800	27.70	0.0	0.0	0.0	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
35	118.600	27.70	0.0	0.0	0.0	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
36	118.400	27.70	0.0	0.0	0.0	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
37	118.200	27.70	0.0	0.0	0.0	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
38	118.000	27.70	0.0	0.0	0.0	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
39	117.800	27.70	0.0	0.0	0.0	6.02	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
40	117.600	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
41	117.400	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
42	117.200	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
43	117.000	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
44	116.800	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
45	116.600	27.70	0.0	0.0	0.0	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
46	116.400	27.70	0.0	0.0	0.0	6.04	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
47	116.200	27.70	0.0	0.0	0.0	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
48	116.000	27.70	0.0	0.0	0.0	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
49	115.800	27.70	0.0	0.0	0.0	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
50	115.600	27.70	0.0	0.0	0.0	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
51	115.400	27.70	0.0	0.0	0.0	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
52	115.200	27.70	0.0	0.0	0.0	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
53	115.000	27.70	0.0	0.0	0.0	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
54	114.800	27.70	0.0	0.0	0.0	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
55	114.600	27.70	0.0	0.0	0.0	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
56	114.400	27.70	0.0	0.0	0.0	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
57	114.200	27.70	0.0	0.0	0.0	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
58	114.000	27.70	0.0	0.0	0.0	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00

59	113.800	27.70	0.0	0.0	0.0	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
60	113.600	27.70	0.0	0.0	0.0	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
61	113.400	27.70	0.0	0.0	0.0	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
62	113.200	27.70	0.0	0.0	0.0	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
63	113.000	27.70	0.0	0.0	0.0	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
64	112.800	27.70	0.0	0.0	0.0	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
65	112.600	27.70	0.0	0.0	0.0	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
66	112.400	27.70	0.0	0.0	0.0	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
67	112.200	27.70	0.0	0.0	0.0	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
68	112.000	27.70	0.0	0.0	0.0	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
69	111.800	27.70	0.0	0.0	0.0	6.07	1.63	0.00	1.63	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
70	111.600	27.70	0.0	0.0	0.0	6.07	1.63	0.00	1.63	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
71	111.400	27.70	0.0	0.0	0.0	6.04	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
72	111.200	27.70	0.0	0.0	0.0	6.02	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
73	111.000	27.70	0.0	0.0	0.0	6.00	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
74	110.800	27.70	0.0	0.0	0.0	5.98	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
75	110.600	27.70	0.0	0.0	0.0	5.96	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
76	110.400	27.70	0.0	0.0	0.0	5.95	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
77	110.200	27.70	0.0	0.0	0.0	5.94	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
78	110.000	27.70	0.0	0.0	0.0	5.93	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
79	109.800	27.70	0.0	0.0	0.0	5.93	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
80	109.600	27.70	0.0	0.0	0.0	5.92	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
81	109.400	27.70	0.0	0.0	0.0	5.92	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.0	0.0	0.	0.00
82	109.200	27.70	0.0	0.0	0.0	5.91	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
83	109.000	27.70	0.0	0.0	0.0	5.91	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
84	108.800	27.70	0.0	0.0	0.0	5.91	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
85	108.600	27.70	0.0	0.0	0.0	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
86	108.400	27.70	0.0	0.0	0.0	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
87	108.200	27.70	0.0	0.0	0.0	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
88	108.000	27.70	0.0	0.0	0.0	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
89	107.800	27.70	0.0	0.0	0.0	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
90	107.600	27.70	0.0	0.0	0.0	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
91	107.400	27.70	0.0	0.0	0.0	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
92	107.200	27.70	0.0	0.0	0.0	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
93	107.000	27.70	0.0	0.0	0.0	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
94	106.800	27.70	0.0	0.0	0.0	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
95	106.600	27.70	0.0	0.0	0.0	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
96	106.400	27.70	0.0	0.0	0.0	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
97	106.200	27.70	0.0	0.0	0.0	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
98	106.000	27.70	0.0	0.0	0.0	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
99	105.800	27.70	0.0	0.0	0.0	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
100	105.600	27.70	0.0	0.0	0.0	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
101	105.400	27.70	0.0	0.0	0.0	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
102	105.200	27.70	0.0	0.0	0.0	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
103	105.000	27.70	0.0	0.0	0.0	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
104	104.800	27.70	0.0	0.0	0.0	5.91	1.74	0.00	1.74	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
105	104.600	27.70	0.0	0.0	0.0	5.91	1.74	0.00	1.74	0.00	0.93	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
106	104.400	27.70	0.0	0.0	0.0	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
107	104.200	27.70	0.0	0.0	0.0	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
108	104.000	27.70	0.0	0.0	0.0	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
109	103.800	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00

110	103.600	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
111	103.400	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
112	103.200	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
113	103.000	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
114	102.800	27.70	0.0	0.0	0.0	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
115	102.600	27.70	0.0	0.0	0.0	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
116	102.400	27.70	0.0	0.0	0.0	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
117	102.200	27.70	0.0	0.0	0.0	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
118	102.000	27.70	0.0	0.0	0.0	5.93	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
119	101.800	27.70	0.0	0.0	0.0	5.89	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
120	101.600	27.70	0.0	0.0	0.0	5.91	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
121	101.400	27.70	0.0	0.0	0.0	5.92	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
122	101.200	27.70	0.0	0.0	0.0	5.93	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
123	101.000	27.70	0.0	0.0	0.0	5.93	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
124	100.800	27.70	0.0	0.0	0.0	5.94	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
125	100.600	27.70	0.0	0.0	0.0	5.95	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
126	100.400	27.70	0.0	0.0	0.0	5.95	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
127	100.200	27.70	0.0	0.0	0.0	5.96	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
128	100.000	27.70	0.0	0.0	0.0	5.96	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
129	99.800	27.70	0.0	0.0	0.0	5.97	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
130	99.600	27.70	0.0	0.0	0.0	5.97	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
131	99.400	27.70	0.0	0.0	0.0	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.0	0.0	0.	0.00
132	99.200	27.70	0.0	0.0	0.0	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
133	99.000	27.70	0.0	0.0	0.0	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
134	98.800	27.70	0.0	0.0	0.0	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
135	98.600	27.70	0.0	0.0	0.0	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
136	98.400	27.70	0.0	0.0	0.0	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
137	98.200	27.70	0.0	0.0	0.0	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
138	98.000	27.70	0.0	0.0	0.0	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
139	97.800	27.70	0.0	0.0	0.0	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
140	97.600	27.70	0.0	0.0	0.0	6.00	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
141	97.400	27.70	0.0	0.0	0.0	6.00	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
142	97.200	27.70	0.0	0.0	0.0	5.96	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
143	97.000	27.70	0.0	0.0	0.0	5.97	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
144	96.800	27.70	0.0	0.0	0.0	5.98	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
145	96.600	27.70	0.0	0.0	0.0	5.99	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
146	96.400	27.70	0.0	0.0	0.0	5.99	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
147	96.200	27.70	0.0	0.0	0.0	6.00	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
148	96.000	27.70	0.0	0.0	0.0	6.00	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
149	95.800	27.70	0.0	0.0	0.0	6.01	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
150	95.600	27.70	0.0	0.0	0.0	6.01	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
151	95.400	27.70	0.0	0.0	0.0	6.02	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
152	95.200	27.70	0.0	0.0	0.0	6.02	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
153	95.000	27.70	0.0	0.0	0.0	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
154	94.800	27.70	0.0	0.0	0.0	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
155	94.600	27.70	0.0	0.0	0.0	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
156	94.400	27.70	0.0	0.0	0.0	6.04	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
157	94.200	27.70	0.0	0.0	0.0	6.04	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
158	94.000	27.70	0.0	0.0	0.0	6.04	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
159	93.800	27.70	0.0	0.0	0.0	6.04	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.04	0.00	20.0	0.0	0.	0.00
160	93.600	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00

161	93.400	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
162	93.200	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
163	93.000	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
164	92.800	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
165	92.600	27.70	0.0	0.0	0.0	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
166	92.400	27.70	0.0	0.0	0.0	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
167	92.200	27.70	0.0	0.0	0.0	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
168	92.000	27.70	0.0	0.0	0.0	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.0	0.0	0.	0.00
169	91.800	27.70	0.0	0.0	0.0	6.06	1.74	0.00	1.74	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
170	91.600	27.70	0.0	0.0	0.0	6.06	1.74	0.00	1.74	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
171	91.400	27.70	0.0	0.0	0.0	6.06	1.73	0.00	1.73	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
172	91.200	27.70	0.0	0.0	0.0	6.06	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
173	91.000	27.70	0.0	0.0	0.0	6.06	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
174	90.800	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
175	90.600	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
176	90.400	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
177	90.200	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
178	90.000	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
179	89.800	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
180	89.600	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
181	89.400	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
182	89.200	27.70	0.0	0.0	0.0	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
183	89.000	27.70	0.0	0.0	0.0	6.08	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
184	88.800	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
185	88.600	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
186	88.400	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
187	88.200	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
188	88.000	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
189	87.800	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
190	87.600	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
191	87.400	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
192	87.200	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
193	87.000	27.70	0.0	0.0	0.0	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
194	86.800	27.70	0.0	0.0	0.0	6.09	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
195	86.600	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
196	86.400	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
197	86.200	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
198	86.000	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
199	85.800	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
200	85.600	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
201	85.400	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
202	85.200	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
203	85.000	27.70	0.0	0.0	0.0	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
204	84.800	27.70	0.0	0.0	0.0	6.10	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
205	84.600	27.70	0.0	0.0	0.0	6.10	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
206	84.400	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
207	84.200	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
208	84.000	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
209	83.800	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
210	83.600	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
211	83.400	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00

212	83.200	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
213	83.000	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
214	82.800	27.70	0.0	0.0	0.0	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
215	82.600	27.70	0.0	0.0	0.0	6.11	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
216	82.400	27.70	0.0	0.0	0.0	6.11	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
217	82.200	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
218	82.000	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
219	81.800	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
220	81.600	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
221	81.400	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
222	81.200	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
223	81.000	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
224	80.800	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
225	80.600	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
226	80.400	27.70	0.0	0.0	0.0	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
227	80.200	27.70	0.0	0.0	0.0	6.12	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
228	80.000	27.70	0.0	0.0	0.0	6.12	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
229	79.800	27.70	0.0	0.0	0.0	6.12	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
230	79.600	27.70	0.0	0.0	0.0	6.12	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
231	79.400	27.70	0.0	0.0	0.0	6.07	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
232	79.200	27.70	0.0	0.0	0.0	6.08	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
233	79.000	27.70	0.0	0.0	0.0	6.09	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
234	78.800	27.70	0.0	0.0	0.0	6.10	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
235	78.601	27.70	0.0	0.0	0.0	6.10	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
236	78.401	27.70	0.0	0.0	0.0	6.11	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
237	78.201	27.70	0.0	0.0	0.0	6.11	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
238	78.001	27.70	0.0	0.0	0.0	6.12	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
239	77.801	27.70	0.0	0.0	0.0	6.12	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
240	77.601	27.70	0.0	0.0	0.0	6.13	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
241	77.401	27.70	0.0	0.0	0.0	6.13	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.00	0.00	20.0	0.0	0.	0.00
242	77.200	27.72	0.0	0.0	0.0	6.07	1.66	0.00	1.66	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
243	77.000	27.74	0.0	0.0	0.0	6.01	1.66	0.00	1.66	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
244	76.800	27.77	0.0	0.0	0.0	5.96	1.65	0.00	1.65	0.00	0.89	0.12	0.00	1.01	0.00	20.0	0.0	0.	0.00
245	76.600	27.79	0.0	0.0	0.0	5.92	1.64	0.00	1.64	0.00	0.89	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
246	76.400	27.81	0.0	0.0	0.0	5.88	1.63	0.00	1.63	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
247	76.200	27.83	0.0	0.0	0.0	5.84	1.63	0.00	1.63	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
248	76.000	27.86	0.0	0.0	0.0	5.81	1.62	0.00	1.62	0.00	0.90	0.12	0.00	1.02	0.00	20.0	0.0	0.	0.00
249	75.800	27.88	0.0	0.0	0.0	5.78	1.61	0.00	1.61	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
250	75.600	27.90	0.0	0.0	0.0	5.75	1.60	0.00	1.60	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
251	75.400	27.92	0.0	0.0	0.0	5.72	1.60	0.00	1.60	0.00	0.91	0.12	0.00	1.03	0.00	20.0	0.0	0.	0.00
252	75.200	27.94	0.0	0.0	0.0	5.70	1.59	0.00	1.59	0.00	0.91	0.12	0.00	1.04	0.00	20.0	0.0	0.	0.00
253	75.000	27.97	0.0	0.0	0.0	5.68	1.58	0.00	1.58	0.00	0.92	0.12	0.00	1.04	0.00	20.0	0.0	0.	0.00
254	74.800	27.99	0.0	0.0	0.0	5.66	1.58	0.00	1.58	0.00	0.92	0.12	0.00	1.04	0.00	20.0	0.0	0.	0.00
255	74.600	28.01	0.0	0.0	0.0	5.64	1.57	0.00	1.57	0.00	0.92	0.12	0.00	1.04	0.00	20.0	0.0	0.	0.00
256	74.400	28.03	0.0	0.0	0.0	5.63	1.56	0.00	1.56	0.00	0.93	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
257	74.200	28.06	0.0	0.0	0.0	5.61	1.56	0.00	1.56	0.00	0.93	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
258	74.000	28.08	0.0	0.0	0.0	5.60	1.55	0.00	1.55	0.00	0.93	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
259	73.800	28.10	0.0	0.0	0.0	5.58	1.54	0.00	1.54	0.00	0.93	0.12	0.00	1.05	0.00	20.0	0.0	0.	0.00
260	73.600	28.12	0.0	0.0	0.0	5.57	1.54	0.00	1.54	0.00	0.94	0.12	0.00	1.06	0.00	20.0	0.0	0.	0.00
261	73.400	28.14	0.0	0.0	0.0	5.56	1.53	0.00	1.53	0.00	0.94	0.12	0.00	1.06	0.00	20.0	0.0	0.	0.00
262	73.200	28.17	0.0	0.0	0.0	5.55	1.52	0.00	1.52	0.00	0.94	0.12	0.00	1.06	0.00	20.0	0.0	0.	0.00

263	73.000	28.19	0.0	0.0	0.0	5.54	1.52	0.00	1.52	0.00	0.94	0.12	0.00	1.07	0.00	20.0	0.0	0.	0.00
264	72.800	28.21	0.0	0.0	0.0	5.53	1.51	0.00	1.51	0.00	0.95	0.12	0.00	1.07	0.00	20.0	0.0	0.	0.00
265	72.600	28.23	0.0	0.0	0.0	5.52	1.50	0.00	1.50	0.00	0.95	0.12	0.00	1.07	0.00	20.0	0.0	0.	0.00
266	72.400	28.26	0.0	0.0	0.0	5.52	1.50	0.00	1.50	0.00	0.95	0.12	0.00	1.07	0.00	20.0	0.0	0.	0.00
267	72.200	28.28	0.0	0.0	0.0	5.51	1.49	0.00	1.49	0.00	0.95	0.12	0.00	1.08	0.00	20.0	0.0	0.	0.00
268	72.000	28.30	0.0	0.0	0.0	5.50	1.49	0.00	1.49	0.00	0.96	0.12	0.00	1.08	0.00	20.0	0.0	0.	0.00
269	71.800	28.32	0.0	0.0	0.0	5.49	1.48	0.00	1.48	0.00	0.96	0.12	0.00	1.08	0.00	20.0	0.0	0.	0.00
270	71.600	28.34	0.0	0.0	0.0	5.49	1.47	0.00	1.47	0.00	0.96	0.12	0.00	1.08	0.00	20.0	0.0	0.	0.00
271	71.400	28.37	0.0	0.0	0.0	5.48	1.47	0.00	1.47	0.00	0.96	0.12	0.00	1.09	0.00	20.0	0.0	0.	0.00
272	71.200	28.39	0.0	0.0	0.0	5.47	1.46	0.00	1.46	0.00	0.97	0.12	0.00	1.09	0.00	20.0	0.0	0.	0.00
273	71.000	28.41	0.0	0.0	0.0	5.47	1.46	0.00	1.46	0.00	0.97	0.12	0.00	1.09	0.00	20.0	0.0	0.	0.00
274	70.800	28.43	0.0	0.0	0.0	5.46	1.45	0.00	1.45	0.00	0.97	0.12	0.00	1.09	0.00	20.0	0.0	0.	0.00
275	70.600	28.46	0.0	0.0	0.0	5.46	1.44	0.00	1.44	0.00	0.97	0.12	0.00	1.10	0.00	20.0	0.0	0.	0.00
276	70.400	28.48	0.0	0.0	0.0	5.45	1.44	0.00	1.44	0.00	0.98	0.12	0.00	1.10	0.00	20.0	0.0	0.	0.00
277	70.200	28.50	0.0	0.0	0.0	5.45	1.43	0.00	1.43	0.00	0.98	0.12	0.00	1.10	0.00	20.0	0.0	0.	0.00
278	70.000	28.52	0.0	0.0	0.0	5.44	1.43	0.00	1.43	0.00	0.98	0.12	0.00	1.10	0.00	20.0	0.0	0.	0.00
279	69.800	28.54	0.0	0.0	0.0	5.43	1.42	0.00	1.42	0.00	0.98	0.12	0.00	1.11	0.00	20.0	0.0	0.	0.00
280	69.600	28.57	0.0	0.0	0.0	5.43	1.41	0.00	1.41	0.00	0.99	0.12	0.00	1.11	0.00	20.0	0.0	0.	0.00
281	69.400	28.59	0.0	0.0	0.0	5.42	1.41	0.00	1.41	0.00	0.99	0.12	0.00	1.11	0.00	20.0	0.0	0.	0.00
282	69.200	28.61	0.0	0.0	0.0	5.42	1.40	0.00	1.40	0.00	0.99	0.12	0.00	1.11	0.00	20.0	0.0	0.	0.00
283	69.000	28.63	0.0	0.0	0.0	5.41	1.40	0.00	1.40	0.00	0.99	0.12	0.00	1.11	0.00	20.0	0.0	0.	0.00
284	68.800	28.66	0.0	0.0	0.0	5.41	1.39	0.00	1.39	0.00	0.99	0.12	0.00	1.12	0.00	20.0	0.0	0.	0.00
285	68.600	28.68	0.0	0.0	0.0	5.41	1.39	0.00	1.39	0.00	1.00	0.12	0.00	1.12	0.00	20.0	0.0	0.	0.00
286	68.400	28.70	0.0	0.0	0.0	5.40	1.38	0.00	1.38	0.00	1.00	0.12	0.00	1.12	0.00	20.0	0.0	0.	0.00
287	68.200	28.72	0.0	0.0	0.0	5.40	1.38	0.00	1.38	0.00	1.00	0.12	0.00	1.12	0.00	20.0	0.0	0.	0.00
288	68.000	28.74	0.0	0.0	0.0	5.39	1.37	0.00	1.37	0.00	1.00	0.12	0.00	1.13	0.00	20.0	0.0	0.	0.00
289	67.800	28.77	0.0	0.0	0.0	5.39	1.37	0.00	1.37	0.00	1.01	0.12	0.00	1.13	0.00	20.0	0.0	0.	0.00
290	67.600	28.79	0.0	0.0	0.0	5.38	1.36	0.00	1.36	0.00	1.01	0.12	0.00	1.13	0.00	20.0	0.0	0.	0.00
291	67.400	28.81	0.0	0.0	0.0	5.38	1.35	0.00	1.35	0.00	1.01	0.12	0.00	1.13	0.00	20.0	0.0	0.	0.00
292	67.200	28.83	0.0	0.0	0.0	5.37	1.35	0.00	1.35	0.00	1.01	0.12	0.00	1.14	0.00	20.0	0.0	0.	0.00
293	67.000	28.86	0.0	0.0	0.0	5.37	1.34	0.00	1.34	0.00	1.01	0.12	0.00	1.14	0.00	20.0	0.0	0.	0.00
294	66.800	28.88	0.0	0.0	0.0	5.36	1.34	0.00	1.34	0.00	1.02	0.12	0.00	1.14	0.00	20.0	0.0	0.	0.00
295	66.600	28.90	0.0	0.0	0.0	5.36	1.33	0.00	1.33	0.00	1.02	0.12	0.00	1.14	0.00	20.0	0.0	0.	0.00
296	66.400	28.92	0.0	0.0	0.0	5.35	1.33	0.00	1.33	0.00	1.02	0.12	0.00	1.14	0.00	20.0	0.0	0.	0.00
297	66.200	28.94	0.0	0.0	0.0	5.35	1.32	0.00	1.32	0.00	1.02	0.12	0.00	1.15	0.00	20.0	0.0	0.	0.00
298	66.000	28.97	0.0	0.0	0.0	5.35	1.32	0.00	1.32	0.00	1.02	0.12	0.00	1.15	0.00	20.0	0.0	0.	0.00
299	65.800	28.99	0.0	0.0	0.0	5.34	1.31	0.00	1.31	0.00	1.03	0.12	0.00	1.15	0.00	20.0	0.0	0.	0.00
300	65.600	29.01	0.0	0.0	0.0	5.34	1.31	0.00	1.31	0.00	1.03	0.12	0.00	1.15	0.00	20.0	0.0	0.	0.00
301	65.400	29.03	0.0	0.0	0.0	5.33	1.30	0.00	1.30	0.00	1.03	0.12	0.00	1.16	0.00	20.0	0.0	0.	0.00
302	65.200	29.06	0.0	0.0	0.0	5.33	1.30	0.00	1.30	0.00	1.03	0.12	0.00	1.16	0.00	20.0	0.0	0.	0.00
303	65.000	29.08	0.0	0.0	0.0	5.32	1.29	0.00	1.29	0.00	1.03	0.12	0.00	1.16	0.00	20.0	0.0	0.	0.00
304	64.800	29.10	0.0	0.0	0.0	5.32	1.29	0.00	1.29	0.00	1.04	0.12	0.00	1.16	0.00	20.0	0.0	0.	0.00
305	64.600	29.12	0.0	0.0	0.0	5.32	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.16	0.00	20.0	0.0	0.	0.00
306	64.400	29.14	0.0	0.0	0.0	5.31	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.17	0.00	20.0	0.0	0.	0.00
307	64.200	29.17	0.0	0.0	0.0	5.31	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.17	0.00	20.0	0.0	0.	0.00
308	64.000	29.19	0.0	0.0	0.0	5.30	1.27	0.00	1.27	0.00	1.04	0.12	0.00	1.17	0.00	20.0	0.0	0.	0.00
309	63.800	29.21	0.0	0.0	0.0	5.30	1.27	0.00	1.27	0.00	1.05	0.12	0.00	1.17	0.00	20.0	0.0	0.	0.00
310	63.600	29.23	0.0	0.0	0.0	5.29	1.26	0.00	1.26	0.00	1.05	0.12	0.00	1.17	0.00	20.0	0.0	0.	0.00
311	63.400	29.26	0.0	0.0	0.0	5.29	1.26	0.00	1.26	0.00	1.05	0.13	0.00	1.18	0.00	20.0	0.0	0.	0.00
312	63.200	29.28	0.0	0.0	0.0	5.28	1.25	0.00	1.25	0.00	1.05	0.13	0.00	1.18	0.00	20.0	0.0	0.	0.00
313	63.000	29.30	0.0	0.0	0.0	5.28	1.25	0.00	1.25	0.00	1.05	0.13	0.00	1.18	0.00	20.0	0.0	0.	0.00

314	62.800	29.32	0.0	0.0	0.0	5.28	1.24	0.00	1.24	0.00	1.06	0.13	0.00	1.18	0.00	20.0	0.0	0.	0.00
315	62.600	29.34	0.0	0.0	0.0	5.27	1.24	0.00	1.24	0.00	1.06	0.13	0.00	1.18	0.00	20.0	0.0	0.	0.00
316	62.400	29.37	0.0	0.0	0.0	5.27	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
317	62.200	29.39	0.0	0.0	0.0	5.26	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
318	62.000	29.41	0.0	0.0	0.0	5.26	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
319	61.800	29.43	0.0	0.0	0.0	5.25	1.22	0.00	1.22	0.00	1.07	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
320	61.600	29.46	0.0	0.0	0.0	5.25	1.22	0.00	1.22	0.00	1.07	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
321	61.400	29.48	0.0	0.0	0.0	5.25	1.21	0.00	1.21	0.00	1.07	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
322	61.200	29.50	0.0	0.0	0.0	5.24	1.21	0.00	1.21	0.00	1.07	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
323	61.000	29.52	0.0	0.0	0.0	5.24	1.20	0.00	1.20	0.00	1.07	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
324	60.800	29.54	0.0	0.0	0.0	5.23	1.20	0.00	1.20	0.00	1.07	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
325	60.600	29.57	0.0	0.0	0.0	5.23	1.20	0.00	1.20	0.00	1.08	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
326	60.400	29.59	0.0	0.0	0.0	5.22	1.19	0.00	1.19	0.00	1.08	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
327	60.200	29.61	0.0	0.0	0.0	5.22	1.19	0.00	1.19	0.00	1.08	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
328	60.000	29.63	0.0	0.0	0.0	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
329	59.800	29.66	0.0	0.0	0.0	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
330	59.600	29.68	0.0	0.0	0.0	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
331	59.400	29.70	0.0	0.0	0.0	5.20	1.17	0.00	1.17	0.00	1.09	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
332	59.200	29.72	0.0	0.0	0.0	5.20	1.17	0.00	1.17	0.00	1.09	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
333	59.000	29.74	0.0	0.0	0.0	5.19	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
334	58.800	29.77	0.0	0.0	0.0	5.19	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
335	58.600	29.79	0.0	0.0	0.0	5.18	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
336	58.400	29.81	0.0	0.0	0.0	5.18	1.15	0.00	1.15	0.00	1.09	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
337	58.200	29.83	0.0	0.0	0.0	5.17	1.15	0.00	1.15	0.00	1.10	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
338	58.000	29.86	0.0	0.0	0.0	5.17	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
339	57.800	29.88	0.0	0.0	0.0	5.17	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
340	57.600	29.90	0.0	0.0	0.0	5.16	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
341	57.400	29.92	0.0	0.0	0.0	5.16	1.13	0.00	1.13	0.00	1.10	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
342	57.200	29.94	0.0	0.0	0.0	5.15	1.13	0.00	1.13	0.00	1.10	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
343	57.000	29.97	0.0	0.0	0.0	5.15	1.13	0.00	1.13	0.00	1.11	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
344	56.800	29.99	0.0	0.0	0.0	5.14	1.12	0.00	1.12	0.00	1.11	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
345	56.600	30.01	0.0	0.0	0.0	5.14	1.12	0.00	1.12	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
346	56.400	30.03	0.0	0.0	0.0	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
347	56.200	30.06	0.0	0.0	0.0	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
348	56.000	30.08	0.0	0.0	0.0	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
349	55.800	30.10	0.0	0.0	0.0	5.12	1.10	0.00	1.10	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
350	55.600	30.12	0.0	0.0	0.0	5.12	1.10	0.00	1.10	0.00	1.12	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
351	55.400	30.14	0.0	0.0	0.0	5.11	1.10	0.00	1.10	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
352	55.200	30.17	0.0	0.0	0.0	5.11	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
353	55.000	30.19	0.0	0.0	0.0	5.10	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
354	54.800	30.21	0.0	0.0	0.0	5.10	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
355	54.600	30.23	0.0	0.0	0.0	5.09	1.08	0.00	1.08	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
356	54.400	30.26	0.0	0.0	0.0	5.09	1.08	0.00	1.08	0.00	1.12	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
357	54.200	30.28	0.0	0.0	0.0	5.09	1.08	0.00	1.08	0.00	1.13	0.13	0.00	1.25	0.00	20.0	0.0	0.	0.00
358	54.000	30.30	0.0	0.0	0.0	5.08	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
359	53.800	30.32	0.0	0.0	0.0	5.08	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
360	53.600	30.34	0.0	0.0	0.0	5.07	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
361	53.400	30.37	0.0	0.0	0.0	5.07	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
362	53.200	30.39	0.0	0.0	0.0	5.06	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
363	53.000	30.41	0.0	0.0	0.0	5.06	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
364	52.800	30.43	0.0	0.0	0.0	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00

365	52.600	30.46	0.0	0.0	0.0	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
366	52.400	30.48	0.0	0.0	0.0	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
367	52.200	30.50	0.0	0.0	0.0	5.04	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
368	52.000	30.52	0.0	0.0	0.0	5.04	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
369	51.800	30.54	0.0	0.0	0.0	5.03	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
370	51.600	30.57	0.0	0.0	0.0	5.03	1.03	0.00	1.03	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
371	51.400	30.59	0.0	0.0	0.0	5.02	1.03	0.00	1.03	0.00	1.14	0.13	0.00	1.27	0.00	20.0	0.0	0.	0.00
372	51.200	30.61	0.0	0.0	0.0	5.02	1.03	0.00	1.03	0.00	1.15	0.13	0.00	1.28	0.00	20.0	0.0	0.	0.00
373	51.000	30.63	0.0	0.0	0.0	5.01	1.03	0.00	1.03	0.00	1.15	0.13	0.00	1.28	0.00	20.0	0.0	0.	0.00
374	50.800	30.66	0.0	0.0	0.0	5.01	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.0	0.0	0.	0.00
375	50.600	30.68	0.0	0.0	0.0	5.01	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.0	0.0	0.	0.00
376	50.400	30.70	0.0	0.0	0.0	5.00	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.0	0.0	0.	0.00
377	50.200	30.70	0.0	0.0	0.0	5.16	2.63	0.00	2.63	0.00	1.13	0.13	0.00	1.26	0.00	20.0	0.0	0.	0.00
378	50.000	30.70	0.0	0.0	0.0	5.09	3.32	0.00	3.32	0.00	1.11	0.13	0.00	1.24	0.00	20.0	0.0	0.	0.00
379	49.800	30.70	0.0	0.0	0.0	5.04	3.63	0.00	3.63	0.00	1.10	0.13	0.00	1.23	0.00	20.0	0.0	0.	0.00
380	49.600	30.70	0.0	0.0	0.0	5.02	3.76	0.00	3.76	0.00	1.09	0.13	0.00	1.22	0.00	20.0	0.0	0.	0.00
381	49.400	30.70	0.0	0.0	0.0	5.01	3.82	0.00	3.82	0.00	1.08	0.13	0.00	1.21	0.00	20.0	0.0	0.	0.00
382	49.200	30.70	0.0	0.0	0.0	5.00	3.84	0.00	3.84	0.00	1.07	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
383	49.000	30.70	0.0	0.0	0.0	5.00	3.85	0.00	3.85	0.00	1.07	0.13	0.00	1.20	0.00	20.0	0.0	0.	0.00
384	48.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.07	0.13	0.00	1.19	0.00	20.0	0.0	0.	0.00
385	48.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.07	0.12	0.00	1.19	0.00	20.0	0.0	0.	0.00
386	48.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.19	0.00	20.0	0.0	0.	0.00
387	48.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.19	0.00	20.0	0.0	0.	0.00
388	48.000	30.70	0.0	0.0	0.0	5.00	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
389	47.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
390	47.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
391	47.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
392	47.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
393	47.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
394	46.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
395	46.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
396	46.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
397	46.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
398	46.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
399	45.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
400	45.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
401	45.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
402	45.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
403	45.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
404	44.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
405	44.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
406	44.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
407	44.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
408	44.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
409	43.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
410	43.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
411	43.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
412	43.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
413	43.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
414	42.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
415	42.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00

416	42.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
417	42.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
418	42.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
419	41.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
420	41.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
421	41.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
422	41.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
423	41.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
424	40.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
425	40.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
426	40.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
427	40.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
428	40.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
429	39.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
430	39.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
431	39.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
432	39.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
433	39.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
434	38.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
435	38.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
436	38.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
437	38.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
438	38.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
439	37.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
440	37.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
441	37.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
442	37.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
443	37.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
444	36.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
445	36.600	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
446	36.400	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
447	36.200	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
448	36.000	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
449	35.800	30.70	0.0	0.0	0.0	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
450	35.600	30.70	0.0	0.0	0.0	6.09	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
451	35.400	30.70	0.0	0.0	0.0	6.19	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
452	35.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
453	35.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
454	34.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
455	34.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
456	34.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
457	34.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
458	34.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
459	33.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
460	33.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
461	33.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
462	33.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
463	33.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
464	32.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
465	32.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
466	32.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00

467	32.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
468	32.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
469	31.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
470	31.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
471	31.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
472	31.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
473	31.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
474	30.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
475	30.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
476	30.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
477	30.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
478	30.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
479	29.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
480	29.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
481	29.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
482	29.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
483	29.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
484	28.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
485	28.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
486	28.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
487	28.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
488	28.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
489	27.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
490	27.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
491	27.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
492	27.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
493	27.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
494	26.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
495	26.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
496	26.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
497	26.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
498	26.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
499	25.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
500	25.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
501	25.400	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
502	25.200	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
503	25.000	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
504	24.800	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
505	24.600	30.70	0.0	0.0	0.0	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
506	24.400	30.70	0.0	0.0	0.0	5.62	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.4	0.0	0.	0.00
507	24.200	30.70	0.0	0.0	0.0	5.42	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	20.8	0.0	0.	0.00
508	24.000	30.70	0.0	0.0	0.0	5.39	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	21.3	0.0	0.	0.00
509	23.800	30.70	0.0	0.0	0.0	5.43	3.84	0.00	3.84	0.00	1.06	0.12	0.00	1.18	0.00	21.7	0.0	0.	0.00
510	23.600	30.70	0.0	0.0	0.0	5.51	3.84	0.00	3.84	0.00	1.06	0.12	0.00	1.18	0.00	22.1	0.0	0.	0.00
511	23.400	30.70	0.0	0.0	0.0	5.60	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.18	0.00	22.5	0.0	0.	0.00
512	23.200	30.70	0.0	0.0	0.0	5.71	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	23.0	0.0	0.	0.00
513	23.000	30.70	0.0	0.0	0.0	5.81	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	23.4	0.0	0.	0.00
514	22.800	30.70	0.0	0.0	0.0	5.91	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	23.8	0.0	0.	0.00
515	22.600	30.70	0.0	0.0	0.0	6.02	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	24.2	0.0	0.	0.00
516	22.400	30.70	0.0	0.0	0.0	6.12	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	24.7	0.0	0.	0.00
517	22.200	30.70	0.0	0.0	0.0	6.23	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.1	0.0	0.	0.00

518	22.000	30.70	0.0	0.0	0.0	6.33	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.5	0.0	0.	0.00
519	21.800	30.70	0.0	0.0	0.0	6.44	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.9	0.0	0.	0.00
520	21.600	30.70	0.0	0.0	0.0	6.54	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	26.4	0.0	0.	0.00
521	21.400	30.70	0.0	0.0	0.0	6.65	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	26.8	0.0	0.	0.00
522	21.200	30.70	0.0	0.0	0.0	6.76	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	27.2	0.0	0.	0.00
523	21.000	30.70	0.0	0.0	0.0	6.86	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	27.6	0.0	0.	0.00
524	20.800	30.70	0.0	0.0	0.0	6.97	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.1	0.0	0.	0.00
525	20.600	30.70	0.0	0.0	0.0	7.07	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.5	0.0	0.	0.00
526	20.400	30.70	0.0	0.0	0.0	7.18	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.9	0.0	0.	0.00
527	20.200	30.70	0.0	0.0	0.0	7.28	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	29.3	0.0	0.	0.00
528	20.000	30.70	0.0	0.0	0.0	7.39	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	29.8	0.0	0.	0.00
529	19.800	30.70	0.0	0.0	0.0	7.49	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	30.2	0.0	0.	0.00
530	19.600	30.70	0.0	0.0	0.0	7.60	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	30.6	0.0	0.	0.00
531	19.400	30.70	0.0	0.0	0.0	7.70	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.0	0.0	0.	0.00
532	19.200	30.70	0.0	0.0	0.0	7.81	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.5	0.0	0.	0.00
533	19.000	30.70	0.0	0.0	0.0	7.91	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.9	0.0	0.	0.00
534	18.800	30.70	0.0	0.0	0.0	8.02	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	32.3	0.0	0.	0.00
535	18.600	30.70	0.0	0.0	0.0	8.12	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	32.7	0.0	0.	0.00
536	18.400	30.70	0.0	0.0	0.0	8.23	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	33.2	0.0	0.	0.00
537	18.200	30.70	0.0	0.0	0.0	8.33	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	33.6	0.0	0.	0.00
538	18.000	30.70	0.0	0.0	0.0	8.44	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	34.0	0.0	0.	0.00
539	17.800	30.78	0.0	0.0	0.0	5.88	3.40	0.00	3.40	0.00	1.13	0.15	0.00	1.28	0.00	34.8	0.0	0.	0.00
540	17.600	30.86	0.0	0.0	0.0	5.73	3.92	0.00	3.92	0.00	1.15	0.14	0.00	1.29	0.00	35.6	0.0	0.	0.00
541	17.400	30.94	0.0	0.0	0.0	5.61	4.34	0.00	4.34	0.00	1.17	0.14	0.00	1.31	0.00	36.4	0.0	0.	0.00
542	17.200	31.02	0.0	0.0	0.0	5.52	4.66	0.00	4.66	0.00	1.19	0.14	0.00	1.33	0.00	37.2	0.0	0.	0.00
543	17.000	31.10	0.0	0.0	0.0	5.47	4.92	0.00	4.92	0.00	1.20	0.14	0.00	1.34	0.00	38.0	0.0	0.	0.00
544	16.800	31.18	0.0	0.0	0.0	5.45	5.11	0.00	5.11	0.00	1.22	0.14	0.00	1.36	0.00	38.8	0.0	0.	0.00
545	16.600	31.26	0.0	0.0	0.0	5.47	5.27	0.00	5.27	0.00	1.23	0.14	0.00	1.37	0.00	39.6	0.0	0.	0.00
546	16.400	31.34	0.0	0.0	0.0	5.51	5.39	0.00	5.39	0.00	1.24	0.14	0.00	1.38	0.00	40.4	0.0	0.	0.00
547	16.200	31.42	0.0	0.0	0.0	5.57	5.48	0.00	5.48	0.00	1.26	0.14	0.00	1.40	0.00	41.2	0.0	0.	0.00
548	16.000	31.50	0.0	0.0	0.0	5.66	5.55	0.00	5.55	0.00	1.27	0.14	0.00	1.41	0.00	42.0	0.0	0.	0.00
579	15.800	31.50	0.0	0.0	0.0	5.42	7.35	0.00	7.35	0.00	1.24	0.14	0.00	1.38	0.00	42.3	0.0	0.	0.00
580	15.600	31.50	0.0	0.0	0.0	5.28	7.17	0.00	7.17	0.00	1.24	0.14	0.00	1.38	0.00	42.6	0.0	0.	0.00
581	15.400	31.50	0.0	0.0	0.0	5.18	7.01	0.00	7.01	0.00	1.24	0.14	0.00	1.38	0.00	42.9	0.0	0.	0.00
582	15.200	31.50	0.0	0.0	0.0	5.11	6.85	0.00	6.85	0.00	1.24	0.14	0.00	1.38	0.00	43.2	0.0	0.	0.00
583	15.000	31.50	0.0	0.0	0.0	5.07	6.71	0.00	6.71	0.00	1.25	0.14	0.00	1.38	0.00	43.5	0.0	0.	0.00
584	14.800	31.50	0.0	0.0	0.0	5.04	6.58	0.00	6.58	0.00	1.25	0.14	0.00	1.38	0.00	43.8	0.0	0.	0.00
585	14.600	31.50	0.0	0.0	0.0	5.04	6.45	0.00	6.45	0.00	1.25	0.14	0.00	1.38	0.00	44.2	0.0	0.	0.00
586	14.400	31.50	0.0	0.0	0.0	5.05	6.34	0.00	6.34	0.00	1.25	0.14	0.00	1.39	0.00	44.5	0.0	0.	0.00
587	14.200	31.50	0.0	0.0	0.0	5.07	6.23	0.00	6.23	0.00	1.25	0.14	0.00	1.39	0.00	44.8	0.0	0.	0.00
588	14.000	31.50	0.0	0.0	0.0	5.11	6.13	0.00	6.13	0.00	1.25	0.14	0.00	1.39	0.00	45.1	0.0	0.	0.00
589	13.800	31.50	0.0	0.0	0.0	5.16	6.03	0.00	6.03	0.00	1.25	0.14	0.00	1.39	0.00	45.4	0.0	0.	0.00
590	13.600	31.50	0.0	0.0	0.0	5.21	5.94	0.00	5.94	0.00	1.25	0.14	0.00	1.39	0.00	45.7	0.0	0.	0.00
591	13.400	31.50	0.0	0.0	0.0	5.27	5.86	0.00	5.86	0.00	1.25	0.14	0.00	1.39	0.00	46.0	0.0	0.	0.00
592	13.200	31.50	0.0	0.0	0.0	5.33	5.78	0.00	5.78	0.00	1.25	0.14	0.00	1.39	0.00	46.3	0.0	0.	0.00
593	13.000	31.50	0.0	0.0	0.0	5.40	5.71	0.00	5.71	0.00	1.25	0.14	0.00	1.39	0.00	46.6	0.0	0.	0.00
594	12.800	31.50	0.0	0.0	0.0	5.47	5.64	0.00	5.64	0.00	1.25	0.14	0.00	1.39	0.00	46.9	0.0	0.	0.00
595	12.600	31.50	0.0	0.0	0.0	5.54	5.58	0.00	5.58	0.00	1.25	0.14	0.00	1.39	0.00	47.2	0.0	0.	0.00
596	12.400	31.50	0.0	0.0	0.0	5.62	5.52	0.00	5.52	0.00	1.25	0.14	0.00	1.39	0.00	47.5	0.0	0.	0.00
597	12.200	31.50	0.0	0.0	0.0	5.70	5.47	0.00	5.47	0.00	1.25	0.14	0.00	1.39	0.00	47.8	0.0	0.	0.00
598	12.000	31.50	0.0	0.0	0.0	5.78	5.42	0.00	5.42	0.00	1.25	0.14	0.00	1.39	0.00	48.2	0.0	0.	0.00

599	11.800	31.50	0.0	0.0	0.0	5.86	5.37	0.00	5.37	0.00	1.25	0.14	0.00	1.39	0.00	48.5	0.0	0.	0.00
600	11.600	31.50	0.0	0.0	0.0	5.94	5.32	0.00	5.32	0.00	1.25	0.14	0.00	1.39	0.00	48.8	0.0	0.	0.00
601	11.400	31.50	0.0	0.0	0.0	6.02	5.28	0.00	5.28	0.00	1.25	0.14	0.00	1.39	0.00	49.1	0.0	0.	0.00
602	11.200	31.50	0.0	0.0	0.0	6.10	5.24	0.00	5.24	0.00	1.25	0.14	0.00	1.39	0.00	49.4	0.0	0.	0.00
603	11.000	31.50	0.0	0.0	0.0	6.18	5.21	0.00	5.21	0.00	1.25	0.14	0.00	1.39	0.00	49.7	0.0	0.	0.00
604	10.800	31.50	0.0	0.0	0.0	6.26	5.17	0.00	5.17	0.00	1.25	0.14	0.00	1.39	0.00	50.0	0.0	0.	0.00
605	10.600	31.50	0.0	0.0	0.0	6.28	5.39	0.00	5.39	0.00	1.26	0.14	0.00	1.40	0.00	50.0	0.0	0.	0.00
606	10.400	31.50	0.0	0.0	0.0	6.29	5.59	0.00	5.59	0.00	1.26	0.14	0.00	1.40	0.00	50.0	0.0	0.	0.00
607	10.200	31.50	0.0	0.0	0.0	6.28	5.77	0.00	5.77	0.00	1.26	0.14	0.00	1.40	0.00	50.0	0.0	0.	0.00
608	10.000	31.50	0.0	0.0	0.0	6.27	5.94	0.00	5.94	0.00	1.27	0.14	0.00	1.40	0.00	50.0	0.0	0.	0.00
609	9.800	31.50	0.0	0.0	0.0	6.24	6.10	0.00	6.10	0.00	1.27	0.14	0.00	1.41	0.00	50.0	0.0	0.	0.00
610	9.600	31.50	0.0	0.0	0.0	6.21	6.24	0.00	6.24	0.00	1.27	0.14	0.00	1.41	0.00	50.0	0.0	0.	0.00
611	9.400	31.50	0.0	0.0	0.0	6.17	6.37	0.00	6.37	0.00	1.27	0.14	0.00	1.41	0.00	50.0	0.0	0.	0.00
612	9.200	31.50	0.0	0.0	0.0	6.13	6.49	0.00	6.49	0.00	1.28	0.14	0.00	1.42	0.00	50.0	0.0	0.	0.00
613	9.000	31.50	0.0	0.0	0.0	6.09	6.60	0.00	6.60	0.00	1.28	0.14	0.00	1.42	0.00	50.0	0.0	0.	0.00
614	8.800	31.50	0.0	0.0	0.0	6.04	6.71	0.00	6.71	0.00	1.28	0.14	0.00	1.42	0.00	50.0	0.0	0.	0.00
615	8.600	31.50	0.0	0.0	0.0	6.00	6.80	0.00	6.80	0.00	1.29	0.14	0.00	1.42	0.00	50.0	0.0	0.	0.00
616	8.400	31.50	0.0	0.0	0.0	5.96	6.89	0.00	6.89	0.00	1.29	0.14	0.00	1.43	0.00	50.0	0.0	0.	0.00
617	8.200	31.50	0.0	0.0	0.0	5.91	6.97	0.00	6.97	0.00	1.29	0.14	0.00	1.43	0.00	50.0	0.0	0.	0.00
618	8.000	31.50	0.0	0.0	0.0	5.87	7.04	0.00	7.04	0.00	1.29	0.14	0.00	1.43	0.00	50.0	0.0	0.	0.00
619	7.800	31.50	0.0	0.0	0.0	5.83	7.11	0.00	7.11	0.00	1.29	0.14	0.00	1.44	0.00	50.0	0.0	0.	0.00
620	7.600	31.50	0.0	0.0	0.0	5.79	7.17	0.00	7.17	0.00	1.30	0.14	0.00	1.44	0.00	50.0	0.0	0.	0.00
621	7.400	31.50	0.0	0.0	0.0	5.76	7.23	0.00	7.23	0.00	1.30	0.14	0.00	1.44	0.00	50.0	0.0	0.	0.00
622	7.200	31.50	0.0	0.0	0.0	5.72	7.28	0.00	7.28	0.00	1.30	0.14	0.00	1.44	0.00	50.0	0.0	0.	0.00
623	7.000	31.50	0.0	0.0	0.0	5.69	7.33	0.00	7.33	0.00	1.30	0.14	0.00	1.45	0.00	50.0	0.0	0.	0.00
624	6.800	31.50	0.0	0.0	0.0	5.65	7.38	0.00	7.38	0.00	1.31	0.14	0.00	1.45	0.00	50.0	0.0	0.	0.00
625	6.600	31.50	0.0	0.0	0.0	5.62	7.42	0.00	7.42	0.00	1.31	0.14	0.00	1.45	0.00	50.0	0.0	0.	0.00
626	6.400	31.50	0.0	0.0	0.0	5.60	7.46	0.00	7.46	0.00	1.31	0.14	0.00	1.45	0.00	50.0	0.0	0.	0.00
627	6.200	31.50	0.0	0.0	0.0	5.57	7.49	0.00	7.49	0.00	1.31	0.14	0.00	1.46	0.00	50.0	0.0	0.	0.00
628	6.000	31.50	0.0	0.0	0.0	5.54	7.52	0.00	7.52	0.00	1.31	0.14	0.00	1.46	0.00	50.0	0.0	0.	0.00
629	5.800	31.50	0.0	0.0	0.0	5.52	7.55	0.00	7.55	0.00	1.32	0.14	0.00	1.46	0.00	50.0	0.0	0.	0.00
630	5.600	31.50	0.0	0.0	0.0	5.50	7.58	0.00	7.58	0.00	1.32	0.14	0.00	1.46	0.00	50.0	0.0	0.	0.00
631	5.400	31.50	0.0	0.0	0.0	5.48	7.61	0.00	7.61	0.00	1.32	0.14	0.00	1.46	0.00	50.0	0.0	0.	0.00
632	5.200	31.50	0.0	0.0	0.0	5.46	7.63	0.00	7.63	0.00	1.32	0.15	0.00	1.47	0.00	50.0	0.0	0.	0.00
633	5.000	31.50	0.0	0.0	0.0	5.44	7.65	0.00	7.65	0.00	1.32	0.15	0.00	1.47	0.00	50.0	0.0	0.	0.00
634	4.800	31.50	0.0	0.0	0.0	5.42	7.67	0.00	7.67	0.00	1.32	0.15	0.00	1.47	0.00	50.0	0.0	0.	0.00
635	4.600	31.50	0.0	0.0	0.0	5.41	7.69	0.00	7.69	0.00	1.33	0.15	0.00	1.47	0.00	50.0	0.0	0.	0.00
636	4.400	31.50	0.0	0.0	0.0	5.39	7.70	0.00	7.70	0.00	1.33	0.15	0.00	1.47	0.00	50.0	0.0	0.	0.00
637	4.200	31.50	0.0	0.0	0.0	5.38	7.72	0.00	7.72	0.00	1.33	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
638	4.000	31.50	0.0	0.0	0.0	5.37	7.73	0.00	7.73	0.00	1.33	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
639	3.800	31.50	0.0	0.0	0.0	5.35	7.75	0.00	7.75	0.00	1.33	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
640	3.600	31.50	0.0	0.0	0.0	5.34	7.76	0.00	7.76	0.00	1.33	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
641	3.400	31.50	0.0	0.0	0.0	5.33	7.77	0.00	7.77	0.00	1.34	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
642	3.200	31.50	0.0	0.0	0.0	5.32	7.78	0.00	7.78	0.00	1.34	0.15	0.00	1.48	0.00	50.0	0.0	0.	0.00
643	3.000	31.50	0.0	0.0	0.0	5.32	7.79	0.00	7.79	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
644	2.800	31.50	0.0	0.0	0.0	5.31	7.80	0.00	7.80	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
645	2.600	31.50	0.0	0.0	0.0	5.30	7.81	0.00	7.81	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
646	2.400	31.50	0.0	0.0	0.0	5.29	7.81	0.00	7.81	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
647	2.200	31.50	0.0	0.0	0.0	5.29	7.82	0.00	7.82	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
648	2.000	31.50	0.0	0.0	0.0	5.28	7.83	0.00	7.83	0.00	1.34	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00
649	1.800	31.50	0.0	0.0	0.0	5.27	7.83	0.00	7.83	0.00	1.35	0.15	0.00	1.49	0.00	50.0	0.0	0.	0.00

650	1.600	31.50	0.0	0.0	0.0	5.27	7.84	0.00	7.84	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
651	1.400	31.50	0.0	0.0	0.0	5.26	7.84	0.00	7.84	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
652	1.200	31.50	0.0	0.0	0.0	5.26	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
653	1.000	31.50	0.0	0.0	0.0	5.25	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
654	0.800	31.50	0.0	0.0	0.0	5.25	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
655	0.600	31.50	0.0	0.0	0.0	5.25	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
656	0.400	31.50	0.0	0.0	0.0	5.24	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.50	0.00	50.0	0.0	0.	0.00
657	0.200	31.50	0.0	0.0	0.0	5.24	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.51	0.00	50.0	0.0	0.	0.00
658	0.000	31.50	0.0	0.0	0.0	5.24	7.87	0.00	7.87	0.00	1.36	0.15	0.00	1.51	0.00	50.0	0.0	0.	0.00

SPECIAL REPORT: Praire
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
549	5.800	30.70	0.0	0.0	0.0	6.42	6.97	0.00	6.97	0.00	1.06	0.12	0.00	1.18	0.00	75.0	0.0	0.	0.00
550	5.600	30.70	0.0	0.0	0.0	6.35	7.65	0.00	7.65	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
551	5.400	30.70	0.0	0.0	0.0	6.33	7.80	0.00	7.80	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
552	5.200	30.70	0.0	0.0	0.0	6.32	7.83	0.00	7.83	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
553	5.000	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
554	4.800	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
555	4.600	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
556	4.400	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
557	4.200	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
558	4.000	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
559	3.800	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
560	3.600	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
561	3.400	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
562	3.200	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
563	3.000	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
564	2.800	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
565	2.600	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
566	2.400	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
567	2.200	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
568	2.000	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
569	1.800	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
570	1.600	30.70	0.0	0.0	0.0	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.0	0.0	0.	0.00
571	1.400	30.80	0.0	0.0	0.0	7.90	9.24	0.00	9.24	0.00	1.09	0.12	0.00	1.21	0.00	70.9	0.0	0.	0.00
572	1.200	30.90	0.0	0.0	0.0	8.42	10.32	0.00	10.32	0.00	1.10	0.12	0.00	1.22	0.00	66.8	0.0	0.	0.00
573	1.000	31.00	0.0	0.0	0.0	8.36	11.15	0.00	11.15	0.00	1.12	0.12	0.00	1.24	0.00	62.6	0.0	0.	0.00
574	0.800	31.10	0.0	0.0	0.0	7.97	11.78	0.00	11.78	0.00	1.13	0.12	0.00	1.25	0.00	58.5	0.0	0.	0.00
575	0.600	31.20	0.0	0.0	0.0	7.42	12.25	0.00	12.25	0.00	1.14	0.12	0.00	1.26	0.00	54.4	0.0	0.	0.00
576	0.400	31.30	0.0	0.0	0.0	6.79	12.61	0.00	12.61	0.00	1.15	0.12	0.00	1.27	0.00	50.2	0.0	0.	0.00
577	0.200	31.40	0.0	0.0	0.0	6.13	12.87	0.00	12.87	0.00	1.16	0.12	0.00	1.29	0.00	46.1	0.0	0.	0.00
578	0.000	31.50	0.0	0.0	0.0	5.46	13.06	0.00	13.06	0.00	1.17	0.13	0.00	1.30	0.00	42.0	0.0	0.	0.00

SPECIAL REPORT: Black Lake Bayou
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 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 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE **	PO4 PROD **	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	125.400	7.87	1.52	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.17	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
2	125.200	7.87	1.52	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.17	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
3	125.000	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
4	124.800	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
5	124.600	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
6	124.400	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
7	124.200	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
8	124.000	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
9	123.800	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
10	123.600	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
11	123.400	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
12	123.200	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
13	123.000	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
14	122.800	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
15	122.600	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
16	122.400	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
17	122.200	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
18	122.000	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
19	121.800	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
20	121.600	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
21	121.400	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
22	121.200	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
23	121.000	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
24	120.800	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
25	120.600	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
26	120.400	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
27	120.200	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
28	120.000	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
29	119.800	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
30	119.600	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
31	119.400	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
32	119.200	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
33	119.000	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
34	118.800	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
35	118.600	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
36	118.400	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
37	118.200	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
38	118.000	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
39	117.800	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
40	117.600	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
41	117.400	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
42	117.200	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
43	117.000	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
44	116.800	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
45	116.600	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
46	116.400	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	

47	116.200	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
48	116.000	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
49	115.800	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
50	115.600	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
51	115.400	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
52	115.200	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
53	115.000	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
54	114.800	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
55	114.600	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
56	114.400	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
57	114.200	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
58	114.000	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
59	113.800	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
60	113.600	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
61	113.400	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
62	113.200	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
63	113.000	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
64	112.800	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
65	112.600	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
66	112.400	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
67	112.200	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
68	112.000	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
69	111.800	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
70	111.600	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
71	111.400	7.87	1.85	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
72	111.200	7.87	1.85	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
73	111.000	7.87	1.85	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
74	110.800	7.87	1.85	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
75	110.600	7.87	1.84	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
76	110.400	7.87	1.84	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
77	110.200	7.87	1.84	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
78	110.000	7.87	1.84	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
79	109.800	7.87	1.84	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
80	109.600	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
81	109.400	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
82	109.200	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
83	109.000	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
84	108.800	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
85	108.600	7.87	1.83	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
86	108.400	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
87	108.200	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
88	108.000	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
89	107.800	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
90	107.600	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
91	107.400	7.87	1.82	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
92	107.200	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
93	107.000	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
94	106.800	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
95	106.600	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
96	106.400	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
97	106.200	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

98	106.000	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
99	105.800	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
100	105.600	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
101	105.400	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
102	105.200	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
103	105.000	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
104	104.800	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
105	104.600	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
106	104.400	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
107	104.200	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
108	104.000	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
109	103.800	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
110	103.600	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
111	103.400	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
112	103.200	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
113	103.000	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
114	102.800	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
115	102.600	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
116	102.400	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
117	102.200	7.87	1.77	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
118	102.000	7.87	1.77	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
119	101.800	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
120	101.600	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
121	101.400	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
122	101.200	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
123	101.000	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
124	100.800	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
125	100.600	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
126	100.400	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
127	100.200	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
128	100.000	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
129	99.800	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
130	99.600	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
131	99.400	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
132	99.200	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
133	99.000	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
134	98.800	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
135	98.600	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
136	98.400	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
137	98.200	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
138	98.000	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
139	97.800	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
140	97.600	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
141	97.400	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
142	97.200	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
143	97.000	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
144	96.800	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
145	96.600	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
146	96.400	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
147	96.200	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
148	96.000	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

149	95.800	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
150	95.600	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
151	95.400	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
152	95.200	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
153	95.000	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
154	94.800	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
155	94.600	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
156	94.400	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
157	94.200	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
158	94.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
159	93.800	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
160	93.600	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
161	93.400	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
162	93.200	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
163	93.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
164	92.800	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
165	92.600	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
166	92.400	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
167	92.200	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
168	92.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
169	91.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
170	91.600	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
171	91.400	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
172	91.200	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
173	91.000	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
174	90.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
175	90.600	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
176	90.400	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
177	90.200	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
178	90.000	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
179	89.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
180	89.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
181	89.400	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
182	89.200	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
183	89.000	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
184	88.800	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
185	88.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
186	88.400	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
187	88.200	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
188	88.000	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
189	87.800	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
190	87.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
191	87.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
192	87.200	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
193	87.000	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
194	86.800	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
195	86.600	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
196	86.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
197	86.200	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
198	86.000	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
199	85.800	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

200	85.600	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
201	85.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
202	85.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
203	85.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
204	84.800	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
205	84.600	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
206	84.400	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
207	84.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
208	84.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
209	83.800	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
210	83.600	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
211	83.400	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
212	83.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
213	83.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
214	82.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
215	82.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
216	82.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
217	82.200	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
218	82.000	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
219	81.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
220	81.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
221	81.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
222	81.200	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
223	81.000	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
224	80.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
225	80.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
226	80.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
227	80.200	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
228	80.000	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
229	79.800	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
230	79.600	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
231	79.400	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
232	79.200	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
233	79.000	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
234	78.800	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
235	78.601	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
236	78.401	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
237	78.201	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
238	78.001	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
239	77.801	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
240	77.601	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
241	77.401	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
242	77.200	7.87	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
243	77.000	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
244	76.800	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
245	76.600	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
246	76.400	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
247	76.200	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
248	76.000	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
249	75.800	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
250	75.600	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00

251	75.400	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.26	3.26	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
252	75.200	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
253	75.000	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
254	74.800	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
255	74.600	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
256	74.400	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
257	74.200	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
258	74.000	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
259	73.800	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
260	73.600	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
261	73.400	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
262	73.200	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
263	73.000	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
264	72.800	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
265	72.600	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
266	72.400	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
267	72.200	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
268	72.000	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
269	71.800	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
270	71.600	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
271	71.400	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
272	71.200	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
273	71.000	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
274	70.800	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
275	70.600	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.37	3.37	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
276	70.400	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
277	70.200	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.38	3.38	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
278	70.000	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
279	69.800	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.39	3.39	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
280	69.600	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
281	69.400	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.40	3.40	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
282	69.200	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
283	69.000	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.41	3.41	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
284	68.800	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
285	68.600	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
286	68.400	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
287	68.200	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
288	68.000	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
289	67.800	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
290	67.600	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.44	3.44	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
291	67.400	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
292	67.200	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.45	3.45	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
293	67.000	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
294	66.800	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.46	3.46	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
295	66.600	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
296	66.400	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.47	3.47	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
297	66.200	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
298	66.000	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.48	3.48	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
299	65.800	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
300	65.600	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.49	3.49	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
301	65.400	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00

302	65.200	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
303	65.000	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.51	3.51	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
304	64.800	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.51	3.51	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
305	64.600	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.52	3.52	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
306	64.400	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.52	3.52	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
307	64.200	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
308	64.000	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
309	63.800	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.54	3.54	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
310	63.600	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.54	3.54	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
311	63.400	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
312	63.200	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
313	63.000	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.56	3.56	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
314	62.800	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.56	3.56	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
315	62.600	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.57	3.57	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
316	62.400	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.57	3.57	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
317	62.200	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.58	3.58	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
318	62.000	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.58	3.58	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
319	61.800	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.59	3.59	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
320	61.600	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.59	3.59	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
321	61.400	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.60	3.60	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
322	61.200	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.60	3.60	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
323	61.000	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.61	3.61	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
324	60.800	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.61	3.61	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
325	60.600	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.62	3.62	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
326	60.400	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.62	3.62	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
327	60.200	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.63	3.63	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
328	60.000	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.63	3.63	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
329	59.800	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.64	3.64	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
330	59.600	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.64	3.64	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
331	59.400	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.65	3.65	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
332	59.200	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.65	3.65	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
333	59.000	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.66	3.66	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
334	58.800	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.66	3.66	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
335	58.600	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.67	3.67	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
336	58.400	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.67	3.67	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
337	58.200	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.68	3.68	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
338	58.000	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.68	3.68	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
339	57.800	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.69	3.69	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
340	57.600	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.69	3.69	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
341	57.400	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.70	3.70	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
342	57.200	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.70	3.70	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
343	57.000	7.56	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.71	3.71	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
344	56.800	7.56	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.71	3.71	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
345	56.600	7.56	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.72	3.72	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
346	56.400	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.72	3.72	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
347	56.200	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.73	3.73	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
348	56.000	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.73	3.73	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
349	55.800	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.74	3.74	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
350	55.600	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.75	3.75	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
351	55.400	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.75	3.75	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
352	55.200	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.76	3.76	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

353	55.000	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.76	3.76	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
354	54.800	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.77	3.77	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
355	54.600	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.77	3.77	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
356	54.400	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.78	3.78	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
357	54.200	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.78	3.78	0.02	0.00	0.21	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
358	54.000	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.79	3.79	0.02	0.00	0.21	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
359	53.800	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.79	3.79	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
360	53.600	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.80	3.80	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
361	53.400	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.80	3.80	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
362	53.200	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.81	3.81	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
363	53.000	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.81	3.81	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
364	52.800	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.82	3.82	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
365	52.600	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.82	3.82	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
366	52.400	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.83	3.83	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
367	52.200	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.84	3.84	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
368	52.000	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.84	3.84	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
369	51.800	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.85	3.85	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
370	51.600	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.85	3.85	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
371	51.400	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
372	51.200	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
373	51.000	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
374	50.800	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
375	50.600	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
376	50.400	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
377	50.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
378	50.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
379	49.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
380	49.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
381	49.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
382	49.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
383	49.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
384	48.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
385	48.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
386	48.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
387	48.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
388	48.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
389	47.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
390	47.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
391	47.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
392	47.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
393	47.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
394	46.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
395	46.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
396	46.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
397	46.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
398	46.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
399	45.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
400	45.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
401	45.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
402	45.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
403	45.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00

404	44.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
405	44.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
406	44.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
407	44.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
408	44.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
409	43.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
410	43.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
411	43.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
412	43.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
413	43.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
414	42.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
415	42.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
416	42.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
417	42.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
418	42.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
419	41.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
420	41.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
421	41.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
422	41.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
423	41.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
424	40.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
425	40.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
426	40.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
427	40.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
428	40.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
429	39.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
430	39.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
431	39.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
432	39.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
433	39.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
434	38.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
435	38.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
436	38.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
437	38.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
438	38.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
439	37.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
440	37.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
441	37.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
442	37.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
443	37.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
444	36.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
445	36.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
446	36.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
447	36.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
448	36.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
449	35.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
450	35.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
451	35.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
452	35.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
453	35.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
454	34.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00

455	34.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
456	34.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
457	34.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
458	34.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
459	33.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
460	33.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
461	33.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
462	33.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
463	33.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
464	32.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
465	32.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
466	32.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
467	32.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
468	32.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
469	31.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
470	31.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
471	31.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
472	31.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
473	31.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
474	30.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
475	30.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
476	30.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
477	30.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
478	30.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
479	29.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
480	29.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
481	29.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
482	29.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
483	29.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
484	28.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
485	28.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
486	28.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
487	28.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
488	28.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
489	27.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
490	27.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
491	27.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
492	27.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
493	27.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
494	26.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
495	26.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
496	26.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
497	26.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
498	26.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
499	25.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
500	25.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
501	25.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
502	25.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
503	25.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
504	24.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
505	24.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00

506	24.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
507	24.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
508	24.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
509	23.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
510	23.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
511	23.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
512	23.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
513	23.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
514	22.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
515	22.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
516	22.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
517	22.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
518	22.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
519	21.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
520	21.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
521	21.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
522	21.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
523	21.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
524	20.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
525	20.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
526	20.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
527	20.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
528	20.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
529	19.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
530	19.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
531	19.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
532	19.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
533	19.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
534	18.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
535	18.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
536	18.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
537	18.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
538	18.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
539	17.800	7.46	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.68	7.68	0.02	0.00	0.22	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
540	17.600	7.45	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.72	7.72	0.02	0.00	0.22	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
541	17.400	7.44	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.76	7.76	0.02	0.00	0.22	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
542	17.200	7.43	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.80	7.80	0.02	0.00	0.22	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
543	17.000	7.42	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.84	7.84	0.02	0.00	0.22	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
544	16.800	7.41	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.88	7.88	0.02	0.00	0.22	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
545	16.600	7.40	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.92	7.92	0.02	0.00	0.22	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
546	16.400	7.39	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.96	7.96	0.03	0.00	0.22	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
547	16.200	7.38	0.17	0.10	0.00	0.00	0.00	0.00	0.00	8.00	8.00	0.03	0.00	0.23	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
548	16.000	7.37	0.17	0.10	0.00	0.00	0.00	0.00	0.00	8.04	8.04	0.03	0.00	0.23	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
579	15.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
580	15.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
581	15.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
582	15.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
583	15.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
584	14.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
585	14.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
586	14.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00

587	14.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
588	14.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00
589	13.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
590	13.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
591	13.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
592	13.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
593	13.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
594	12.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
595	12.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
596	12.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
597	12.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
598	12.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
599	11.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
600	11.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
601	11.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
602	11.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
603	11.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
604	10.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
605	10.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
606	10.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
607	10.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
608	10.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
609	9.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
610	9.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
611	9.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
612	9.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
613	9.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
614	8.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
615	8.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
616	8.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
617	8.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
618	8.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
619	7.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
620	7.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
621	7.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
622	7.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
623	7.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
624	6.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
625	6.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
626	6.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
627	6.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
628	6.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
629	5.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
630	5.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
631	5.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
632	5.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
633	5.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
634	4.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
635	4.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
636	4.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
637	4.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00

638	4.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
639	3.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
640	3.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
641	3.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
642	3.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
643	3.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
644	2.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
645	2.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
646	2.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
647	2.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
648	2.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
649	1.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
650	1.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
651	1.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
652	1.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
653	1.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
654	0.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
655	0.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
656	0.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
657	0.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
658	0.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00

SPECIAL REPORT: Praire
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 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 1/da	ORG-N 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
549	5.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
550	5.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
551	5.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
552	5.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
553	5.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
554	4.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
555	4.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
556	4.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
557	4.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
558	4.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
559	3.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
560	3.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
561	3.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
562	3.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
563	3.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
564	2.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
565	2.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
566	2.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
567	2.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
568	2.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
569	1.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00

570	1.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
571	1.400	7.46	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.59	2.59	0.02	0.00	0.23	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
572	1.200	7.44	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.60	2.60	0.02	0.00	0.23	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
573	1.000	7.43	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.62	2.62	0.02	0.00	0.23	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
574	0.800	7.42	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.64	2.64	0.02	0.00	0.23	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00
575	0.600	7.40	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.65	2.65	0.02	0.00	0.23	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00
576	0.400	7.39	0.32	0.13	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
577	0.200	7.38	0.32	0.14	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.03	0.00	0.23	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
578	0.000	7.37	0.32	0.14	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.03	0.00	0.23	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00

SPECIAL REPORT: Black Lake Bayou
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
1	125.60	125.40	0.1105	0.018	0.71	8.5	1202.	1704.3	6.0	0.	0.000	0.000	0.018
2	125.40	125.20	0.1109	0.018	0.71	8.5	1204.	1705.1	6.0	0.	0.000	0.000	0.018
3	125.20	125.00	0.1114	0.018	0.71	8.5	1207.	1706.0	6.0	0.	0.000	0.000	0.018
4	125.00	124.80	0.1119	0.018	0.71	8.5	1210.	1706.9	6.1	0.	0.000	0.000	0.018
5	124.80	124.60	0.1123	0.019	0.71	8.5	1213.	1707.7	6.1	0.	0.000	0.000	0.019
6	124.60	124.40	0.1128	0.019	0.71	8.5	1216.	1708.6	6.1	0.	0.000	0.000	0.019
7	124.40	124.20	0.1133	0.019	0.71	8.5	1219.	1709.4	6.1	0.	0.000	0.000	0.019
8	124.20	124.00	0.1137	0.019	0.71	8.6	1222.	1710.3	6.1	0.	0.000	0.000	0.019
9	124.00	123.80	0.1142	0.019	0.72	8.6	1225.	1711.1	6.1	0.	0.000	0.000	0.019
10	123.80	123.60	0.1147	0.019	0.72	8.6	1228.	1712.0	6.1	0.	0.000	0.000	0.019
11	123.60	123.40	0.1152	0.019	0.72	8.6	1230.	1712.8	6.2	0.	0.000	0.000	0.019
12	123.40	123.20	0.1156	0.019	0.72	8.6	1233.	1713.6	6.2	0.	0.000	0.000	0.019
13	123.20	123.00	0.1161	0.019	0.72	8.6	1236.	1714.5	6.2	0.	0.000	0.000	0.019
14	123.00	122.80	0.1166	0.019	0.72	8.6	1239.	1715.3	6.2	0.	0.000	0.000	0.019
15	122.80	122.60	0.1170	0.019	0.72	8.6	1242.	1716.1	6.2	0.	0.000	0.000	0.019
16	122.60	122.40	0.1175	0.019	0.72	8.6	1245.	1716.9	6.2	0.	0.000	0.000	0.019
17	122.40	122.20	0.1180	0.019	0.73	8.6	1247.	1717.8	6.2	0.	0.000	0.000	0.019
18	122.20	122.00	0.1184	0.019	0.73	8.6	1250.	1718.6	6.3	0.	0.000	0.000	0.019
19	122.00	121.80	0.1189	0.019	0.73	8.6	1253.	1719.4	6.3	0.	0.000	0.000	0.019
20	121.80	121.60	0.1194	0.019	0.73	8.6	1256.	1720.2	6.3	0.	0.000	0.000	0.019
21	121.60	121.40	0.1198	0.019	0.73	8.6	1259.	1721.0	6.3	0.	0.000	0.000	0.019
22	121.40	121.20	0.1203	0.019	0.73	8.6	1261.	1721.8	6.3	0.	0.000	0.000	0.019
23	121.20	121.00	0.1208	0.019	0.73	8.6	1264.	1722.6	6.3	0.	0.000	0.000	0.019
24	121.00	120.80	0.1212	0.019	0.74	8.6	1267.	1723.4	6.3	0.	0.000	0.000	0.019
25	120.80	120.60	0.1217	0.019	0.74	8.6	1270.	1724.2	6.3	0.	0.000	0.000	0.019
26	120.60	120.40	0.1222	0.019	0.74	8.6	1273.	1725.0	6.4	0.	0.000	0.000	0.019
27	120.40	120.20	0.1227	0.019	0.74	8.6	1275.	1725.8	6.4	0.	0.000	0.000	0.019
28	120.20	120.00	0.1231	0.019	0.74	8.6	1278.	1726.6	6.4	0.	0.000	0.000	0.019
29	120.00	119.80	0.1236	0.019	0.74	8.6	1281.	1727.4	6.4	0.	0.000	0.000	0.019
30	119.80	119.60	0.1241	0.019	0.74	8.6	1284.	1728.2	6.4	0.	0.000	0.000	0.019
31	119.60	119.40	0.1245	0.019	0.74	8.6	1286.	1729.0	6.4	0.	0.000	0.000	0.019
32	119.40	119.20	0.1250	0.019	0.75	8.6	1289.	1729.7	6.4	0.	0.000	0.000	0.019
33	119.20	119.00	0.1255	0.019	0.75	8.7	1292.	1730.5	6.5	0.	0.000	0.000	0.019

34	119.00	118.80	0.1259	0.019	0.75	8.7	1295.	1731.3	6.5	0.	0.000	0.000	0.019
35	118.80	118.60	0.1264	0.019	0.75	8.7	1297.	1732.1	6.5	0.	0.000	0.000	0.019
36	118.60	118.40	0.1269	0.020	0.75	8.7	1300.	1732.8	6.5	0.	0.000	0.000	0.020
37	118.40	118.20	0.1273	0.020	0.75	8.7	1303.	1733.6	6.5	0.	0.000	0.000	0.020
38	118.20	118.00	0.1278	0.020	0.75	8.7	1306.	1734.4	6.5	0.	0.000	0.000	0.020
39	118.00	117.80	0.1283	0.020	0.75	8.7	1308.	1735.1	6.5	0.	0.000	0.000	0.020
40	117.80	117.60	0.1287	0.020	0.76	8.7	1311.	1735.9	6.6	0.	0.000	0.000	0.020
41	117.60	117.40	0.1292	0.020	0.76	8.7	1314.	1736.6	6.6	0.	0.000	0.000	0.020
42	117.40	117.20	0.1297	0.020	0.76	8.7	1317.	1737.4	6.6	0.	0.000	0.000	0.020
43	117.20	117.00	0.1301	0.020	0.76	8.7	1319.	1738.1	6.6	0.	0.000	0.000	0.020
44	117.00	116.80	0.1306	0.020	0.76	8.7	1322.	1738.9	6.6	0.	0.000	0.000	0.020
45	116.80	116.60	0.1311	0.020	0.76	8.7	1325.	1739.6	6.6	0.	0.000	0.000	0.020
46	116.60	116.40	0.1316	0.020	0.76	8.7	1327.	1740.4	6.6	0.	0.000	0.000	0.020
47	116.40	116.20	0.1320	0.020	0.76	8.7	1330.	1741.1	6.7	0.	0.000	0.000	0.020
48	116.20	116.00	0.1325	0.020	0.77	8.7	1333.	1741.9	6.7	0.	0.000	0.000	0.020
49	116.00	115.80	0.1330	0.020	0.77	8.7	1335.	1742.6	6.7	0.	0.000	0.000	0.020
50	115.80	115.60	0.1334	0.020	0.77	8.7	1338.	1743.3	6.7	0.	0.000	0.000	0.020
51	115.60	115.40	0.1339	0.020	0.77	8.7	1341.	1744.1	6.7	0.	0.000	0.000	0.020
52	115.40	115.20	0.1344	0.020	0.77	8.7	1343.	1744.8	6.7	0.	0.000	0.000	0.020
53	115.20	115.00	0.1348	0.020	0.77	8.7	1346.	1745.5	6.7	0.	0.000	0.000	0.020
54	115.00	114.80	0.1353	0.020	0.77	8.7	1349.	1746.3	6.7	0.	0.000	0.000	0.020
55	114.80	114.60	0.1358	0.020	0.77	8.7	1351.	1747.0	6.8	0.	0.000	0.000	0.020
56	114.60	114.40	0.1362	0.020	0.77	8.7	1354.	1747.7	6.8	0.	0.000	0.000	0.020
57	114.40	114.20	0.1367	0.020	0.78	8.7	1357.	1748.4	6.8	0.	0.000	0.000	0.020
58	114.20	114.00	0.1372	0.020	0.78	8.7	1359.	1749.1	6.8	0.	0.000	0.000	0.020
59	114.00	113.80	0.1376	0.020	0.78	8.7	1362.	1749.9	6.8	0.	0.000	0.000	0.020
60	113.80	113.60	0.1381	0.020	0.78	8.8	1365.	1750.6	6.8	0.	0.000	0.000	0.020
61	113.60	113.40	0.1386	0.020	0.78	8.8	1367.	1751.3	6.8	0.	0.000	0.000	0.020
62	113.40	113.20	0.1391	0.020	0.78	8.8	1370.	1752.0	6.8	0.	0.000	0.000	0.020
63	113.20	113.00	0.1395	0.020	0.78	8.8	1373.	1752.7	6.9	0.	0.000	0.000	0.020
64	113.00	112.80	0.1400	0.020	0.78	8.8	1375.	1753.4	6.9	0.	0.000	0.000	0.020
65	112.80	112.60	0.1405	0.020	0.79	8.8	1378.	1754.1	6.9	0.	0.000	0.000	0.020
66	112.60	112.40	0.1409	0.020	0.79	8.8	1380.	1754.8	6.9	0.	0.000	0.000	0.020
67	112.40	112.20	0.1414	0.020	0.79	8.8	1383.	1755.5	6.9	0.	0.000	0.000	0.020
68	112.20	112.00	0.1419	0.020	0.79	8.8	1386.	1756.2	6.9	0.	0.000	0.000	0.020
69	112.00	111.80	0.1423	0.021	0.79	8.8	1388.	1756.9	6.9	0.	0.000	0.000	0.021
70	111.80	111.60	0.1428	0.021	0.79	8.8	1391.	1757.6	7.0	0.	0.000	0.000	0.021
71	111.60	111.40	0.1433	0.024	0.63	9.4	1187.	1885.0	5.9	0.	0.000	0.000	0.024
72	111.40	111.20	0.1437	0.024	0.63	9.4	1190.	1885.8	5.9	0.	0.000	0.000	0.024
73	111.20	111.00	0.1442	0.024	0.63	9.4	1192.	1886.5	6.0	0.	0.000	0.000	0.024
74	111.00	110.80	0.1447	0.024	0.63	9.4	1194.	1887.2	6.0	0.	0.000	0.000	0.024
75	110.80	110.60	0.1451	0.024	0.63	9.4	1196.	1888.0	6.0	0.	0.000	0.000	0.024
76	110.60	110.40	0.1456	0.024	0.63	9.4	1198.	1888.7	6.0	0.	0.000	0.000	0.024
77	110.40	110.20	0.1461	0.024	0.64	9.4	1201.	1889.4	6.0	0.	0.000	0.000	0.024
78	110.20	110.00	0.1466	0.024	0.64	9.5	1203.	1890.1	6.0	0.	0.000	0.000	0.024
79	110.00	109.80	0.1470	0.024	0.64	9.5	1205.	1890.9	6.0	0.	0.000	0.000	0.024
80	109.80	109.60	0.1475	0.024	0.64	9.5	1207.	1891.6	6.0	0.	0.000	0.000	0.024
81	109.60	109.40	0.1480	0.024	0.64	9.5	1209.	1892.3	6.0	0.	0.000	0.000	0.024
82	109.40	109.20	0.1484	0.025	0.64	9.5	1211.	1893.0	6.1	0.	0.000	0.000	0.025
83	109.20	109.00	0.1489	0.025	0.64	9.5	1214.	1893.8	6.1	0.	0.000	0.000	0.025
84	109.00	108.80	0.1494	0.025	0.64	9.5	1216.	1894.5	6.1	0.	0.000	0.000	0.025

85	108.80	108.60	0.1498	0.025	0.64	9.5	1218.	1895.2	6.1	0.	0.000	0.000	0.025
86	108.60	108.40	0.1503	0.025	0.64	9.5	1220.	1895.9	6.1	0.	0.000	0.000	0.025
87	108.40	108.20	0.1508	0.025	0.64	9.5	1222.	1896.6	6.1	0.	0.000	0.000	0.025
88	108.20	108.00	0.1512	0.025	0.65	9.5	1225.	1897.3	6.1	0.	0.000	0.000	0.025
89	108.00	107.80	0.1517	0.025	0.65	9.5	1227.	1898.0	6.1	0.	0.000	0.000	0.025
90	107.80	107.60	0.1522	0.025	0.65	9.5	1229.	1898.7	6.1	0.	0.000	0.000	0.025
91	107.60	107.40	0.1526	0.025	0.65	9.5	1231.	1899.4	6.2	0.	0.000	0.000	0.025
92	107.40	107.20	0.1531	0.025	0.65	9.5	1233.	1900.1	6.2	0.	0.000	0.000	0.025
93	107.20	107.00	0.1536	0.025	0.65	9.5	1235.	1900.8	6.2	0.	0.000	0.000	0.025
94	107.00	106.80	0.1541	0.025	0.65	9.5	1237.	1901.5	6.2	0.	0.000	0.000	0.025
95	106.80	106.60	0.1545	0.025	0.65	9.5	1240.	1902.2	6.2	0.	0.000	0.000	0.025
96	106.60	106.40	0.1550	0.025	0.65	9.5	1242.	1902.9	6.2	0.	0.000	0.000	0.025
97	106.40	106.20	0.1555	0.025	0.65	9.5	1244.	1903.6	6.2	0.	0.000	0.000	0.025
98	106.20	106.00	0.1559	0.025	0.65	9.5	1246.	1904.3	6.2	0.	0.000	0.000	0.025
99	106.00	105.80	0.1564	0.025	0.66	9.5	1248.	1905.0	6.2	0.	0.000	0.000	0.025
100	105.80	105.60	0.1569	0.025	0.66	9.5	1250.	1905.6	6.3	0.	0.000	0.000	0.025
101	105.60	105.40	0.1573	0.025	0.66	9.5	1252.	1906.3	6.3	0.	0.000	0.000	0.025
102	105.40	105.20	0.1578	0.025	0.66	9.5	1255.	1907.0	6.3	0.	0.000	0.000	0.025
103	105.20	105.00	0.1583	0.025	0.66	9.5	1257.	1907.7	6.3	0.	0.000	0.000	0.025
104	105.00	104.80	0.1587	0.025	0.66	9.5	1259.	1908.4	6.3	0.	0.000	0.000	0.025
105	104.80	104.60	0.1592	0.025	0.66	9.5	1261.	1909.0	6.3	0.	0.000	0.000	0.025
106	104.60	104.40	0.1597	0.025	0.66	9.5	1263.	1909.7	6.3	0.	0.000	0.000	0.025
107	104.40	104.20	0.1602	0.025	0.66	9.6	1265.	1910.4	6.3	0.	0.000	0.000	0.025
108	104.20	104.00	0.1606	0.025	0.66	9.6	1267.	1911.1	6.3	0.	0.000	0.000	0.025
109	104.00	103.80	0.1611	0.025	0.66	9.6	1269.	1911.7	6.3	0.	0.000	0.000	0.025
110	103.80	103.60	0.1616	0.025	0.66	9.6	1271.	1912.4	6.4	0.	0.000	0.000	0.025
111	103.60	103.40	0.1620	0.025	0.67	9.6	1274.	1913.1	6.4	0.	0.000	0.000	0.025
112	103.40	103.20	0.1625	0.025	0.67	9.6	1276.	1913.7	6.4	0.	0.000	0.000	0.025
113	103.20	103.00	0.1630	0.026	0.67	9.6	1278.	1914.4	6.4	0.	0.000	0.000	0.026
114	103.00	102.80	0.1634	0.026	0.67	9.6	1280.	1915.0	6.4	0.	0.000	0.000	0.026
115	102.80	102.60	0.1639	0.026	0.67	9.6	1282.	1915.7	6.4	0.	0.000	0.000	0.026
116	102.60	102.40	0.1644	0.026	0.67	9.6	1284.	1916.4	6.4	0.	0.000	0.000	0.026
117	102.40	102.20	0.1648	0.026	0.67	9.6	1286.	1917.0	6.4	0.	0.000	0.000	0.026
118	102.20	102.00	0.1653	0.026	0.67	9.6	1288.	1917.7	6.4	0.	0.000	0.000	0.026
119	102.00	101.80	0.1888	0.027	0.71	9.7	1389.	1948.5	6.9	0.	0.000	0.000	0.027
120	101.80	101.60	0.1892	0.027	0.71	9.7	1391.	1949.0	7.0	0.	0.000	0.000	0.027
121	101.60	101.40	0.1897	0.027	0.71	9.7	1393.	1949.6	7.0	0.	0.000	0.000	0.027
122	101.40	101.20	0.1902	0.027	0.72	9.8	1395.	1950.2	7.0	0.	0.000	0.000	0.027
123	101.20	101.00	0.1907	0.027	0.72	9.8	1397.	1950.8	7.0	0.	0.000	0.000	0.027
124	101.00	100.80	0.1911	0.027	0.72	9.8	1399.	1951.4	7.0	0.	0.000	0.000	0.027
125	100.80	100.60	0.1916	0.027	0.72	9.8	1401.	1951.9	7.0	0.	0.000	0.000	0.027
126	100.60	100.40	0.1921	0.027	0.72	9.8	1403.	1952.5	7.0	0.	0.000	0.000	0.027
127	100.40	100.20	0.1925	0.027	0.72	9.8	1405.	1953.1	7.0	0.	0.000	0.000	0.027
128	100.20	100.00	0.1930	0.027	0.72	9.8	1407.	1953.6	7.0	0.	0.000	0.000	0.027
129	100.00	99.80	0.1935	0.027	0.72	9.8	1409.	1954.2	7.0	0.	0.000	0.000	0.027
130	99.80	99.60	0.1939	0.027	0.72	9.8	1411.	1954.8	7.1	0.	0.000	0.000	0.027
131	99.60	99.40	0.1944	0.028	0.72	9.8	1413.	1955.3	7.1	0.	0.000	0.000	0.028
132	99.40	99.20	0.1949	0.028	0.72	9.8	1415.	1955.9	7.1	0.	0.000	0.000	0.028
133	99.20	99.00	0.1953	0.028	0.72	9.8	1417.	1956.5	7.1	0.	0.000	0.000	0.028
134	99.00	98.80	0.1958	0.028	0.72	9.8	1419.	1957.0	7.1	0.	0.000	0.000	0.028
135	98.80	98.60	0.1963	0.028	0.73	9.8	1421.	1957.6	7.1	0.	0.000	0.000	0.028

136	98.60	98.40	0.1968	0.028	0.73	9.8	1423.	1958.2	7.1	0.	0.000	0.000	0.028
137	98.40	98.20	0.1972	0.028	0.73	9.8	1425.	1958.7	7.1	0.	0.000	0.000	0.028
138	98.20	98.00	0.1977	0.028	0.73	9.8	1426.	1959.3	7.1	0.	0.000	0.000	0.028
139	98.00	97.80	0.1982	0.028	0.73	9.8	1428.	1959.8	7.1	0.	0.000	0.000	0.028
140	97.80	97.60	0.1986	0.028	0.73	9.8	1430.	1960.4	7.2	0.	0.000	0.000	0.028
141	97.60	97.40	0.1991	0.028	0.73	9.8	1432.	1960.9	7.2	0.	0.000	0.000	0.028
142	97.40	97.20	0.2156	0.029	0.76	9.9	1499.	1979.7	7.5	0.	0.000	0.000	0.029
143	97.20	97.00	0.2160	0.029	0.76	9.9	1500.	1980.3	7.5	0.	0.000	0.000	0.029
144	97.00	96.80	0.2165	0.029	0.76	9.9	1502.	1980.8	7.5	0.	0.000	0.000	0.029
145	96.80	96.60	0.2170	0.029	0.76	9.9	1504.	1981.3	7.5	0.	0.000	0.000	0.029
146	96.60	96.40	0.2174	0.029	0.76	9.9	1506.	1981.8	7.5	0.	0.000	0.000	0.029
147	96.40	96.20	0.2179	0.029	0.76	9.9	1508.	1982.3	7.5	0.	0.000	0.000	0.029
148	96.20	96.00	0.2184	0.029	0.76	9.9	1510.	1982.8	7.5	0.	0.000	0.000	0.029
149	96.00	95.80	0.2189	0.029	0.76	9.9	1512.	1983.3	7.6	0.	0.000	0.000	0.029
150	95.80	95.60	0.2193	0.029	0.76	9.9	1513.	1983.8	7.6	0.	0.000	0.000	0.029
151	95.60	95.40	0.2198	0.029	0.76	9.9	1515.	1984.3	7.6	0.	0.000	0.000	0.029
152	95.40	95.20	0.2203	0.029	0.76	9.9	1517.	1984.9	7.6	0.	0.000	0.000	0.029
153	95.20	95.00	0.2207	0.029	0.77	9.9	1519.	1985.4	7.6	0.	0.000	0.000	0.029
154	95.00	94.80	0.2212	0.029	0.77	9.9	1521.	1985.9	7.6	0.	0.000	0.000	0.029
155	94.80	94.60	0.2217	0.029	0.77	9.9	1523.	1986.4	7.6	0.	0.000	0.000	0.029
156	94.60	94.40	0.2221	0.029	0.77	9.9	1524.	1986.9	7.6	0.	0.000	0.000	0.029
157	94.40	94.20	0.2226	0.029	0.77	9.9	1526.	1987.4	7.6	0.	0.000	0.000	0.029
158	94.20	94.00	0.2231	0.029	0.77	9.9	1528.	1987.9	7.6	0.	0.000	0.000	0.029
159	94.00	93.80	0.2235	0.029	0.77	9.9	1530.	1988.4	7.6	0.	0.000	0.000	0.029
160	93.80	93.60	0.2240	0.029	0.77	9.9	1532.	1988.9	7.7	0.	0.000	0.000	0.029
161	93.60	93.40	0.2245	0.029	0.77	9.9	1534.	1989.4	7.7	0.	0.000	0.000	0.029
162	93.40	93.20	0.2249	0.029	0.77	9.9	1535.	1989.9	7.7	0.	0.000	0.000	0.029
163	93.20	93.00	0.2254	0.029	0.77	10.0	1537.	1990.4	7.7	0.	0.000	0.000	0.029
164	93.00	92.80	0.2259	0.029	0.77	10.0	1539.	1990.9	7.7	0.	0.000	0.000	0.029
165	92.80	92.60	0.2264	0.029	0.77	10.0	1541.	1991.4	7.7	0.	0.000	0.000	0.029
166	92.60	92.40	0.2268	0.029	0.77	10.0	1543.	1991.9	7.7	0.	0.000	0.000	0.029
167	92.40	92.20	0.2273	0.029	0.78	10.0	1545.	1992.4	7.7	0.	0.000	0.000	0.029
168	92.20	92.00	0.2278	0.029	0.78	10.0	1546.	1992.9	7.7	0.	0.000	0.000	0.029
169	92.00	91.80	0.2282	0.029	0.78	10.0	1548.	1993.3	7.7	0.	0.000	0.000	0.029
170	91.80	91.60	0.2287	0.030	0.78	10.0	1550.	1993.8	7.8	0.	0.000	0.000	0.030
171	91.60	91.40	0.2292	0.030	0.78	10.0	1552.	1994.3	7.8	0.	0.000	0.000	0.030
172	91.40	91.20	0.2296	0.030	0.78	10.0	1554.	1994.8	7.8	0.	0.000	0.000	0.030
173	91.20	91.00	0.2301	0.030	0.78	10.0	1555.	1995.3	7.8	0.	0.000	0.000	0.030
174	91.00	90.80	0.2306	0.030	0.78	10.0	1557.	1995.8	7.8	0.	0.000	0.000	0.030
175	90.80	90.60	0.2310	0.030	0.78	10.0	1559.	1996.3	7.8	0.	0.000	0.000	0.030
176	90.60	90.40	0.2315	0.030	0.78	10.0	1561.	1996.8	7.8	0.	0.000	0.000	0.030
177	90.40	90.20	0.2320	0.030	0.78	10.0	1563.	1997.2	7.8	0.	0.000	0.000	0.030
178	90.20	90.00	0.2325	0.030	0.78	10.0	1564.	1997.7	7.8	0.	0.000	0.000	0.030
179	90.00	89.80	0.2329	0.030	0.78	10.0	1566.	1998.2	7.8	0.	0.000	0.000	0.030
180	89.80	89.60	0.2334	0.030	0.78	10.0	1568.	1998.7	7.8	0.	0.000	0.000	0.030
181	89.60	89.40	0.2339	0.030	0.79	10.0	1570.	1999.2	7.8	0.	0.000	0.000	0.030
182	89.40	89.20	0.2343	0.030	0.79	10.0	1572.	1999.7	7.9	0.	0.000	0.000	0.030
183	89.20	89.00	0.2348	0.030	0.79	10.0	1573.	2000.1	7.9	0.	0.000	0.000	0.030
184	89.00	88.80	0.2353	0.030	0.79	10.0	1575.	2000.6	7.9	0.	0.000	0.000	0.030
185	88.80	88.60	0.2357	0.030	0.79	10.0	1577.	2001.1	7.9	0.	0.000	0.000	0.030
186	88.60	88.40	0.2362	0.030	0.79	10.0	1579.	2001.6	7.9	0.	0.000	0.000	0.030

187	88.40	88.20	0.2367	0.030	0.79	10.0	1581.	2002.0	7.9	0.	0.000	0.000	0.030
188	88.20	88.00	0.2371	0.030	0.79	10.0	1582.	2002.5	7.9	0.	0.000	0.000	0.030
189	88.00	87.80	0.2376	0.030	0.79	10.0	1584.	2003.0	7.9	0.	0.000	0.000	0.030
190	87.80	87.60	0.2381	0.030	0.79	10.0	1586.	2003.5	7.9	0.	0.000	0.000	0.030
191	87.60	87.40	0.2385	0.030	0.79	10.0	1588.	2003.9	7.9	0.	0.000	0.000	0.030
192	87.40	87.20	0.2390	0.030	0.79	10.0	1589.	2004.4	7.9	0.	0.000	0.000	0.030
193	87.20	87.00	0.2395	0.030	0.79	10.0	1591.	2004.9	8.0	0.	0.000	0.000	0.030
194	87.00	86.80	0.2400	0.030	0.79	10.0	1593.	2005.4	8.0	0.	0.000	0.000	0.030
195	86.80	86.60	0.2404	0.030	0.80	10.0	1595.	2005.8	8.0	0.	0.000	0.000	0.030
196	86.60	86.40	0.2409	0.030	0.80	10.0	1597.	2006.3	8.0	0.	0.000	0.000	0.030
197	86.40	86.20	0.2414	0.030	0.80	10.0	1598.	2006.8	8.0	0.	0.000	0.000	0.030
198	86.20	86.00	0.2418	0.030	0.80	10.0	1600.	2007.2	8.0	0.	0.000	0.000	0.030
199	86.00	85.80	0.2423	0.030	0.80	10.0	1602.	2007.7	8.0	0.	0.000	0.000	0.030
200	85.80	85.60	0.2428	0.030	0.80	10.0	1604.	2008.2	8.0	0.	0.000	0.000	0.030
201	85.60	85.40	0.2432	0.030	0.80	10.0	1605.	2008.6	8.0	0.	0.000	0.000	0.030
202	85.40	85.20	0.2437	0.030	0.80	10.0	1607.	2009.1	8.0	0.	0.000	0.000	0.030
203	85.20	85.00	0.2442	0.030	0.80	10.0	1609.	2009.6	8.0	0.	0.000	0.000	0.030
204	85.00	84.80	0.2446	0.030	0.80	10.1	1611.	2010.0	8.1	0.	0.000	0.000	0.030
205	84.80	84.60	0.2451	0.030	0.80	10.1	1612.	2010.5	8.1	0.	0.000	0.000	0.030
206	84.60	84.40	0.2456	0.030	0.80	10.1	1614.	2010.9	8.1	0.	0.000	0.000	0.030
207	84.40	84.20	0.2461	0.030	0.80	10.1	1616.	2011.4	8.1	0.	0.000	0.000	0.030
208	84.20	84.00	0.2465	0.030	0.80	10.1	1618.	2011.9	8.1	0.	0.000	0.000	0.030
209	84.00	83.80	0.2470	0.031	0.80	10.1	1620.	2012.3	8.1	0.	0.000	0.000	0.031
210	83.80	83.60	0.2475	0.031	0.81	10.1	1621.	2012.8	8.1	0.	0.000	0.000	0.031
211	83.60	83.40	0.2479	0.031	0.81	10.1	1623.	2013.2	8.1	0.	0.000	0.000	0.031
212	83.40	83.20	0.2484	0.031	0.81	10.1	1625.	2013.7	8.1	0.	0.000	0.000	0.031
213	83.20	83.00	0.2489	0.031	0.81	10.1	1627.	2014.2	8.1	0.	0.000	0.000	0.031
214	83.00	82.80	0.2493	0.031	0.81	10.1	1628.	2014.6	8.1	0.	0.000	0.000	0.031
215	82.80	82.60	0.2498	0.031	0.81	10.1	1630.	2015.1	8.1	0.	0.000	0.000	0.031
216	82.60	82.40	0.2503	0.031	0.81	10.1	1632.	2015.5	8.2	0.	0.000	0.000	0.031
217	82.40	82.20	0.2507	0.031	0.81	10.1	1633.	2016.0	8.2	0.	0.000	0.000	0.031
218	82.20	82.00	0.2512	0.031	0.81	10.1	1635.	2016.4	8.2	0.	0.000	0.000	0.031
219	82.00	81.80	0.2517	0.031	0.81	10.1	1637.	2016.9	8.2	0.	0.000	0.000	0.031
220	81.80	81.60	0.2521	0.031	0.81	10.1	1639.	2017.3	8.2	0.	0.000	0.000	0.031
221	81.60	81.40	0.2526	0.031	0.81	10.1	1640.	2017.8	8.2	0.	0.000	0.000	0.031
222	81.40	81.20	0.2531	0.031	0.81	10.1	1642.	2018.2	8.2	0.	0.000	0.000	0.031
223	81.20	81.00	0.2536	0.031	0.81	10.1	1644.	2018.7	8.2	0.	0.000	0.000	0.031
224	81.00	80.80	0.2540	0.031	0.82	10.1	1646.	2019.1	8.2	0.	0.000	0.000	0.031
225	80.80	80.60	0.2545	0.031	0.82	10.1	1647.	2019.6	8.2	0.	0.000	0.000	0.031
226	80.60	80.40	0.2550	0.031	0.82	10.1	1649.	2020.0	8.2	0.	0.000	0.000	0.031
227	80.40	80.20	0.2554	0.031	0.82	10.1	1651.	2020.5	8.3	0.	0.000	0.000	0.031
228	80.20	80.00	0.2559	0.031	0.82	10.1	1653.	2020.9	8.3	0.	0.000	0.000	0.031
229	80.00	79.80	0.2564	0.031	0.82	10.1	1654.	2021.3	8.3	0.	0.000	0.000	0.031
230	79.80	79.60	0.2568	0.031	0.82	10.1	1656.	2021.8	8.3	0.	0.000	0.000	0.031
231	79.60	79.40	0.2753	0.032	0.85	10.2	1723.	2038.7	8.6	0.	0.000	0.000	0.032
232	79.40	79.20	0.2758	0.032	0.85	10.2	1725.	2039.1	8.6	0.	0.000	0.000	0.032
233	79.20	79.00	0.2762	0.032	0.85	10.2	1726.	2039.5	8.6	0.	0.000	0.000	0.032
234	79.00	78.80	0.2767	0.032	0.85	10.2	1728.	2040.0	8.6	0.	0.000	0.000	0.032
235	78.80	78.60	0.2772	0.032	0.85	10.2	1730.	2040.4	8.6	0.	0.000	0.000	0.032
236	78.60	78.40	0.2777	0.032	0.85	10.2	1731.	2040.8	8.7	0.	0.000	0.000	0.032
237	78.40	78.20	0.2781	0.032	0.85	10.2	1733.	2041.2	8.7	0.	0.000	0.000	0.032

238	78.20	78.00	0.2786	0.032	0.85	10.2	1735.	2041.6	8.7	0.	0.000	0.000	0.032
239	78.00	77.80	0.2791	0.032	0.85	10.2	1736.	2042.0	8.7	0.	0.000	0.000	0.032
240	77.80	77.60	0.2795	0.032	0.85	10.2	1738.	2042.4	8.7	0.	0.000	0.000	0.032
241	77.60	77.40	0.2800	0.032	0.85	10.2	1740.	2042.8	8.7	0.	0.000	0.000	0.032
242	77.40	77.20	0.2805	0.025	0.94	11.8	2220.	2369.5	11.1	0.	0.000	0.000	0.025
243	77.20	77.00	0.2809	0.025	0.94	11.8	2222.	2370.0	11.1	0.	0.000	0.000	0.025
244	77.00	76.80	0.2814	0.025	0.94	11.9	2224.	2370.4	11.1	0.	0.000	0.000	0.025
245	76.80	76.60	0.2819	0.025	0.94	11.9	2226.	2370.9	11.1	0.	0.000	0.000	0.025
246	76.60	76.40	0.2823	0.025	0.94	11.9	2228.	2371.4	11.1	0.	0.000	0.000	0.025
247	76.40	76.20	0.2828	0.025	0.94	11.9	2230.	2371.9	11.2	0.	0.000	0.000	0.025
248	76.20	76.00	0.2833	0.025	0.94	11.9	2232.	2372.3	11.2	0.	0.000	0.000	0.025
249	76.00	75.80	0.2837	0.025	0.94	11.9	2235.	2372.8	11.2	0.	0.000	0.000	0.025
250	75.80	75.60	0.2842	0.025	0.94	11.9	2237.	2373.3	11.2	0.	0.000	0.000	0.025
251	75.60	75.40	0.2847	0.025	0.94	11.9	2239.	2373.7	11.2	0.	0.000	0.000	0.025
252	75.40	75.20	0.2852	0.025	0.94	11.9	2241.	2374.2	11.2	0.	0.000	0.000	0.025
253	75.20	75.00	0.2856	0.025	0.94	11.9	2243.	2374.7	11.2	0.	0.000	0.000	0.025
254	75.00	74.80	0.2861	0.025	0.95	11.9	2245.	2375.1	11.2	0.	0.000	0.000	0.025
255	74.80	74.60	0.2866	0.026	0.95	11.9	2247.	2375.6	11.2	0.	0.000	0.000	0.026
256	74.60	74.40	0.2870	0.026	0.95	11.9	2249.	2376.1	11.2	0.	0.000	0.000	0.026
257	74.40	74.20	0.2875	0.026	0.95	11.9	2251.	2376.5	11.3	0.	0.000	0.000	0.026
258	74.20	74.00	0.2880	0.026	0.95	11.9	2253.	2377.0	11.3	0.	0.000	0.000	0.026
259	74.00	73.80	0.2884	0.026	0.95	11.9	2256.	2377.5	11.3	0.	0.000	0.000	0.026
260	73.80	73.60	0.2889	0.026	0.95	11.9	2258.	2377.9	11.3	0.	0.000	0.000	0.026
261	73.60	73.40	0.2894	0.026	0.95	11.9	2260.	2378.4	11.3	0.	0.000	0.000	0.026
262	73.40	73.20	0.2898	0.026	0.95	11.9	2262.	2378.9	11.3	0.	0.000	0.000	0.026
263	73.20	73.00	0.2903	0.026	0.95	11.9	2264.	2379.3	11.3	0.	0.000	0.000	0.026
264	73.00	72.80	0.2908	0.026	0.95	11.9	2266.	2379.8	11.3	0.	0.000	0.000	0.026
265	72.80	72.60	0.2913	0.026	0.95	11.9	2268.	2380.2	11.3	0.	0.000	0.000	0.026
266	72.60	72.40	0.2917	0.026	0.95	11.9	2270.	2380.7	11.4	0.	0.000	0.000	0.026
267	72.40	72.20	0.2922	0.026	0.95	11.9	2272.	2381.2	11.4	0.	0.000	0.000	0.026
268	72.20	72.00	0.2927	0.026	0.95	11.9	2274.	2381.6	11.4	0.	0.000	0.000	0.026
269	72.00	71.80	0.2931	0.026	0.96	11.9	2276.	2382.1	11.4	0.	0.000	0.000	0.026
270	71.80	71.60	0.2936	0.026	0.96	11.9	2278.	2382.5	11.4	0.	0.000	0.000	0.026
271	71.60	71.40	0.2941	0.026	0.96	11.9	2280.	2383.0	11.4	0.	0.000	0.000	0.026
272	71.40	71.20	0.2945	0.026	0.96	11.9	2283.	2383.4	11.4	0.	0.000	0.000	0.026
273	71.20	71.00	0.2950	0.026	0.96	11.9	2285.	2383.9	11.4	0.	0.000	0.000	0.026
274	71.00	70.80	0.2955	0.026	0.96	11.9	2287.	2384.4	11.4	0.	0.000	0.000	0.026
275	70.80	70.60	0.2959	0.026	0.96	11.9	2289.	2384.8	11.4	0.	0.000	0.000	0.026
276	70.60	70.40	0.2964	0.026	0.96	11.9	2291.	2385.3	11.5	0.	0.000	0.000	0.026
277	70.40	70.20	0.2969	0.026	0.96	11.9	2293.	2385.7	11.5	0.	0.000	0.000	0.026
278	70.20	70.00	0.2973	0.026	0.96	11.9	2295.	2386.2	11.5	0.	0.000	0.000	0.026
279	70.00	69.80	0.2978	0.026	0.96	11.9	2297.	2386.6	11.5	0.	0.000	0.000	0.026
280	69.80	69.60	0.2983	0.026	0.96	11.9	2299.	2387.1	11.5	0.	0.000	0.000	0.026
281	69.60	69.40	0.2988	0.026	0.96	11.9	2301.	2387.5	11.5	0.	0.000	0.000	0.026
282	69.40	69.20	0.2992	0.026	0.96	11.9	2303.	2388.0	11.5	0.	0.000	0.000	0.026
283	69.20	69.00	0.2997	0.026	0.97	11.9	2305.	2388.4	11.5	0.	0.000	0.000	0.026
284	69.00	68.80	0.3002	0.026	0.97	11.9	2307.	2388.9	11.5	0.	0.000	0.000	0.026
285	68.80	68.60	0.3006	0.026	0.97	11.9	2309.	2389.3	11.5	0.	0.000	0.000	0.026
286	68.60	68.40	0.3011	0.026	0.97	11.9	2311.	2389.8	11.6	0.	0.000	0.000	0.026
287	68.40	68.20	0.3016	0.026	0.97	12.0	2313.	2390.2	11.6	0.	0.000	0.000	0.026
288	68.20	68.00	0.3020	0.026	0.97	12.0	2316.	2390.7	11.6	0.	0.000	0.000	0.026

289	68.00	67.80	0.3025	0.026	0.97	12.0	2318.	2391.1	11.6	0.	0.000	0.000	0.026
290	67.80	67.60	0.3030	0.026	0.97	12.0	2320.	2391.5	11.6	0.	0.000	0.000	0.026
291	67.60	67.40	0.3034	0.026	0.97	12.0	2322.	2392.0	11.6	0.	0.000	0.000	0.026
292	67.40	67.20	0.3039	0.026	0.97	12.0	2324.	2392.4	11.6	0.	0.000	0.000	0.026
293	67.20	67.00	0.3044	0.026	0.97	12.0	2326.	2392.9	11.6	0.	0.000	0.000	0.026
294	67.00	66.80	0.3048	0.026	0.97	12.0	2328.	2393.3	11.6	0.	0.000	0.000	0.026
295	66.80	66.60	0.3053	0.026	0.97	12.0	2330.	2393.8	11.6	0.	0.000	0.000	0.026
296	66.60	66.40	0.3058	0.026	0.97	12.0	2332.	2394.2	11.7	0.	0.000	0.000	0.026
297	66.40	66.20	0.3063	0.026	0.97	12.0	2334.	2394.6	11.7	0.	0.000	0.000	0.026
298	66.20	66.00	0.3067	0.026	0.98	12.0	2336.	2395.1	11.7	0.	0.000	0.000	0.026
299	66.00	65.80	0.3072	0.026	0.98	12.0	2338.	2395.5	11.7	0.	0.000	0.000	0.026
300	65.80	65.60	0.3077	0.026	0.98	12.0	2340.	2396.0	11.7	0.	0.000	0.000	0.026
301	65.60	65.40	0.3081	0.026	0.98	12.0	2342.	2396.4	11.7	0.	0.000	0.000	0.026
302	65.40	65.20	0.3086	0.026	0.98	12.0	2344.	2396.8	11.7	0.	0.000	0.000	0.026
303	65.20	65.00	0.3091	0.026	0.98	12.0	2346.	2397.3	11.7	0.	0.000	0.000	0.026
304	65.00	64.80	0.3095	0.026	0.98	12.0	2348.	2397.7	11.7	0.	0.000	0.000	0.026
305	64.80	64.60	0.3100	0.026	0.98	12.0	2350.	2398.1	11.8	0.	0.000	0.000	0.026
306	64.60	64.40	0.3105	0.026	0.98	12.0	2352.	2398.6	11.8	0.	0.000	0.000	0.026
307	64.40	64.20	0.3109	0.026	0.98	12.0	2354.	2399.0	11.8	0.	0.000	0.000	0.026
308	64.20	64.00	0.3114	0.026	0.98	12.0	2356.	2399.4	11.8	0.	0.000	0.000	0.026
309	64.00	63.80	0.3119	0.026	0.98	12.0	2358.	2399.9	11.8	0.	0.000	0.000	0.026
310	63.80	63.60	0.3124	0.026	0.98	12.0	2360.	2400.3	11.8	0.	0.000	0.000	0.026
311	63.60	63.40	0.3128	0.026	0.98	12.0	2362.	2400.7	11.8	0.	0.000	0.000	0.026
312	63.40	63.20	0.3133	0.027	0.98	12.0	2364.	2401.2	11.8	0.	0.000	0.000	0.027
313	63.20	63.00	0.3138	0.027	0.99	12.0	2366.	2401.6	11.8	0.	0.000	0.000	0.027
314	63.00	62.80	0.3142	0.027	0.99	12.0	2368.	2402.0	11.8	0.	0.000	0.000	0.027
315	62.80	62.60	0.3147	0.027	0.99	12.0	2370.	2402.5	11.9	0.	0.000	0.000	0.027
316	62.60	62.40	0.3152	0.027	0.99	12.0	2372.	2402.9	11.9	0.	0.000	0.000	0.027
317	62.40	62.20	0.3156	0.027	0.99	12.0	2374.	2403.3	11.9	0.	0.000	0.000	0.027
318	62.20	62.00	0.3161	0.027	0.99	12.0	2376.	2403.7	11.9	0.	0.000	0.000	0.027
319	62.00	61.80	0.3166	0.027	0.99	12.0	2378.	2404.2	11.9	0.	0.000	0.000	0.027
320	61.80	61.60	0.3170	0.027	0.99	12.0	2380.	2404.6	11.9	0.	0.000	0.000	0.027
321	61.60	61.40	0.3175	0.027	0.99	12.0	2382.	2405.0	11.9	0.	0.000	0.000	0.027
322	61.40	61.20	0.3180	0.027	0.99	12.0	2384.	2405.5	11.9	0.	0.000	0.000	0.027
323	61.20	61.00	0.3184	0.027	0.99	12.0	2386.	2405.9	11.9	0.	0.000	0.000	0.027
324	61.00	60.80	0.3189	0.027	0.99	12.0	2388.	2406.3	11.9	0.	0.000	0.000	0.027
325	60.80	60.60	0.3194	0.027	0.99	12.0	2390.	2406.7	12.0	0.	0.000	0.000	0.027
326	60.60	60.40	0.3199	0.027	0.99	12.0	2392.	2407.2	12.0	0.	0.000	0.000	0.027
327	60.40	60.20	0.3203	0.027	0.99	12.0	2394.	2407.6	12.0	0.	0.000	0.000	0.027
328	60.20	60.00	0.3208	0.027	1.00	12.0	2396.	2408.0	12.0	0.	0.000	0.000	0.027
329	60.00	59.80	0.3213	0.027	1.00	12.0	2398.	2408.4	12.0	0.	0.000	0.000	0.027
330	59.80	59.60	0.3217	0.027	1.00	12.0	2400.	2408.8	12.0	0.	0.000	0.000	0.027
331	59.60	59.40	0.3222	0.027	1.00	12.0	2402.	2409.3	12.0	0.	0.000	0.000	0.027
332	59.40	59.20	0.3227	0.027	1.00	12.0	2404.	2409.7	12.0	0.	0.000	0.000	0.027
333	59.20	59.00	0.3231	0.027	1.00	12.1	2406.	2410.1	12.0	0.	0.000	0.000	0.027
334	59.00	58.80	0.3236	0.027	1.00	12.1	2408.	2410.5	12.0	0.	0.000	0.000	0.027
335	58.80	58.60	0.3241	0.027	1.00	12.1	2410.	2410.9	12.1	0.	0.000	0.000	0.027
336	58.60	58.40	0.3245	0.027	1.00	12.1	2412.	2411.4	12.1	0.	0.000	0.000	0.027
337	58.40	58.20	0.3250	0.027	1.00	12.1	2414.	2411.8	12.1	0.	0.000	0.000	0.027
338	58.20	58.00	0.3255	0.027	1.00	12.1	2416.	2412.2	12.1	0.	0.000	0.000	0.027
339	58.00	57.80	0.3259	0.027	1.00	12.1	2418.	2412.6	12.1	0.	0.000	0.000	0.027

340	57.80	57.60	0.3264	0.027	1.00	12.1	2420.	2413.0	12.1	0.	0.000	0.000	0.027
341	57.60	57.40	0.3269	0.027	1.00	12.1	2422.	2413.4	12.1	0.	0.000	0.000	0.027
342	57.40	57.20	0.3274	0.027	1.00	12.1	2424.	2413.9	12.1	0.	0.000	0.000	0.027
343	57.20	57.00	0.3278	0.027	1.00	12.1	2426.	2414.3	12.1	0.	0.000	0.000	0.027
344	57.00	56.80	0.3283	0.027	1.01	12.1	2428.	2414.7	12.1	0.	0.000	0.000	0.027
345	56.80	56.60	0.3288	0.027	1.01	12.1	2430.	2415.1	12.2	0.	0.000	0.000	0.027
346	56.60	56.40	0.3292	0.027	1.01	12.1	2432.	2415.5	12.2	0.	0.000	0.000	0.027
347	56.40	56.20	0.3297	0.027	1.01	12.1	2434.	2415.9	12.2	0.	0.000	0.000	0.027
348	56.20	56.00	0.3302	0.027	1.01	12.1	2436.	2416.3	12.2	0.	0.000	0.000	0.027
349	56.00	55.80	0.3306	0.027	1.01	12.1	2438.	2416.7	12.2	0.	0.000	0.000	0.027
350	55.80	55.60	0.3311	0.027	1.01	12.1	2440.	2417.2	12.2	0.	0.000	0.000	0.027
351	55.60	55.40	0.3316	0.027	1.01	12.1	2442.	2417.6	12.2	0.	0.000	0.000	0.027
352	55.40	55.20	0.3320	0.027	1.01	12.1	2444.	2418.0	12.2	0.	0.000	0.000	0.027
353	55.20	55.00	0.3325	0.027	1.01	12.1	2446.	2418.4	12.2	0.	0.000	0.000	0.027
354	55.00	54.80	0.3330	0.027	1.01	12.1	2448.	2418.8	12.2	0.	0.000	0.000	0.027
355	54.80	54.60	0.3335	0.027	1.01	12.1	2450.	2419.2	12.2	0.	0.000	0.000	0.027
356	54.60	54.40	0.3339	0.027	1.01	12.1	2452.	2419.6	12.3	0.	0.000	0.000	0.027
357	54.40	54.20	0.3344	0.027	1.01	12.1	2454.	2420.0	12.3	0.	0.000	0.000	0.027
358	54.20	54.00	0.3349	0.027	1.01	12.1	2456.	2420.4	12.3	0.	0.000	0.000	0.027
359	54.00	53.80	0.3353	0.027	1.02	12.1	2458.	2420.8	12.3	0.	0.000	0.000	0.027
360	53.80	53.60	0.3358	0.027	1.02	12.1	2460.	2421.2	12.3	0.	0.000	0.000	0.027
361	53.60	53.40	0.3363	0.027	1.02	12.1	2462.	2421.6	12.3	0.	0.000	0.000	0.027
362	53.40	53.20	0.3367	0.027	1.02	12.1	2464.	2422.1	12.3	0.	0.000	0.000	0.027
363	53.20	53.00	0.3372	0.027	1.02	12.1	2466.	2422.5	12.3	0.	0.000	0.000	0.027
364	53.00	52.80	0.3377	0.027	1.02	12.1	2468.	2422.9	12.3	0.	0.000	0.000	0.027
365	52.80	52.60	0.3381	0.027	1.02	12.1	2469.	2423.3	12.3	0.	0.000	0.000	0.027
366	52.60	52.40	0.3386	0.027	1.02	12.1	2471.	2423.7	12.4	0.	0.000	0.000	0.027
367	52.40	52.20	0.3391	0.027	1.02	12.1	2473.	2424.1	12.4	0.	0.000	0.000	0.027
368	52.20	52.00	0.3395	0.027	1.02	12.1	2475.	2424.5	12.4	0.	0.000	0.000	0.027
369	52.00	51.80	0.3400	0.027	1.02	12.1	2477.	2424.9	12.4	0.	0.000	0.000	0.027
370	51.80	51.60	0.3405	0.027	1.02	12.1	2479.	2425.3	12.4	0.	0.000	0.000	0.027
371	51.60	51.40	0.3410	0.027	1.02	12.1	2481.	2425.7	12.4	0.	0.000	0.000	0.027
372	51.40	51.20	0.3414	0.027	1.02	12.1	2483.	2426.1	12.4	0.	0.000	0.000	0.027
373	51.20	51.00	0.3419	0.028	1.02	12.1	2485.	2426.5	12.4	0.	0.000	0.000	0.028
374	51.00	50.80	0.3424	0.028	1.02	12.1	2487.	2426.9	12.4	0.	0.000	0.000	0.028
375	50.80	50.60	0.3428	0.028	1.03	12.1	2489.	2427.3	12.4	0.	0.000	0.000	0.028
376	50.60	50.40	0.3433	0.028	1.03	12.1	2491.	2427.7	12.5	0.	0.000	0.000	0.028
377	50.40	50.20	0.3438	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
378	50.20	50.00	0.3442	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
379	50.00	49.80	0.3447	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
380	49.80	49.60	0.3452	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
381	49.60	49.40	0.3456	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
382	49.40	49.20	0.3461	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
383	49.20	49.00	0.3466	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
384	49.00	48.80	0.3470	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
385	48.80	48.60	0.3475	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
386	48.60	48.40	0.3480	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
387	48.40	48.20	0.3485	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
388	48.20	48.00	0.3519	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
389	48.00	47.80	0.3524	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
390	47.80	47.60	0.3529	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000

391	47.60	47.40	0.3533	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
392	47.40	47.20	0.3538	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
393	47.20	47.00	0.3543	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
394	47.00	46.80	0.3547	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
395	46.80	46.60	0.3552	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
396	46.60	46.40	0.3557	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
397	46.40	46.20	0.3561	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
398	46.20	46.00	0.3566	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
399	46.00	45.80	0.3571	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
400	45.80	45.60	0.3575	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
401	45.60	45.40	0.3580	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
402	45.40	45.20	0.3585	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
403	45.20	45.00	0.3589	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
404	45.00	44.80	0.3594	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
405	44.80	44.60	0.3599	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
406	44.60	44.40	0.3604	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
407	44.40	44.20	0.3608	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
408	44.20	44.00	0.3613	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
409	44.00	43.80	0.3618	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
410	43.80	43.60	0.3622	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
411	43.60	43.40	0.3627	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
412	43.40	43.20	0.3632	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
413	43.20	43.00	0.3636	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
414	43.00	42.80	0.3641	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
415	42.80	42.60	0.3646	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
416	42.60	42.40	0.3650	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
417	42.40	42.20	0.3655	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
418	42.20	42.00	0.3660	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
419	42.00	41.80	0.3664	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
420	41.80	41.60	0.3669	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
421	41.60	41.40	0.3674	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
422	41.40	41.20	0.3678	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
423	41.20	41.00	0.3683	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
424	41.00	40.80	0.3688	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
425	40.80	40.60	0.3693	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
426	40.60	40.40	0.3697	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
427	40.40	40.20	0.3702	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
428	40.20	40.00	0.3707	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
429	40.00	39.80	0.3711	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
430	39.80	39.60	0.3716	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
431	39.60	39.40	0.3721	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
432	39.40	39.20	0.3725	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
433	39.20	39.00	0.3730	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
434	39.00	38.80	0.3735	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
435	38.80	38.60	0.3739	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
436	38.60	38.40	0.3744	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
437	38.40	38.20	0.3749	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
438	38.20	38.00	0.3753	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
439	38.00	37.80	0.3758	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
440	37.80	37.60	0.3763	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
441	37.60	37.40	0.3767	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000

442	37.40	37.20	0.3772	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
443	37.20	37.00	0.3777	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
444	37.00	36.80	0.3782	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
445	36.80	36.60	0.3786	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
446	36.60	36.40	0.3791	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
447	36.40	36.20	0.3796	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
448	36.20	36.00	0.3800	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
449	36.00	35.80	0.3805	0.000	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.000
450	35.80	35.60	0.3810	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
451	35.60	35.40	0.3814	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
452	35.40	35.20	0.3819	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
453	35.20	35.00	0.3824	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
454	35.00	34.80	0.3828	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
455	34.80	34.60	0.3833	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
456	34.60	34.40	0.3838	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
457	34.40	34.20	0.3843	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
458	34.20	34.00	0.3847	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
459	34.00	33.80	0.3852	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
460	33.80	33.60	0.3857	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
461	33.60	33.40	0.3861	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
462	33.40	33.20	0.3866	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
463	33.20	33.00	0.3871	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
464	33.00	32.80	0.3875	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
465	32.80	32.60	0.3880	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
466	32.60	32.40	0.3885	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
467	32.40	32.20	0.3890	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
468	32.20	32.00	0.3894	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
469	32.00	31.80	0.3899	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
470	31.80	31.60	0.3904	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
471	31.60	31.40	0.3908	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
472	31.40	31.20	0.3913	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
473	31.20	31.00	0.3918	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
474	31.00	30.80	0.3922	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
475	30.80	30.60	0.3927	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
476	30.60	30.40	0.3932	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
477	30.40	30.20	0.3936	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
478	30.20	30.00	0.3941	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
479	30.00	29.80	0.3946	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
480	29.80	29.60	0.3951	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
481	29.60	29.40	0.3955	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
482	29.40	29.20	0.3960	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
483	29.20	29.00	0.3965	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
484	29.00	28.80	0.3969	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
485	28.80	28.60	0.3974	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
486	28.60	28.40	0.3979	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
487	28.40	28.20	0.3983	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
488	28.20	28.00	0.3988	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
489	28.00	27.80	0.3993	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
490	27.80	27.60	0.3998	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
491	27.60	27.40	0.4002	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
492	27.40	27.20	0.4007	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000

493	27.20	27.00	0.4012	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
494	27.00	26.80	0.4016	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
495	26.80	26.60	0.4021	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
496	26.60	26.40	0.4026	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
497	26.40	26.20	0.4030	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
498	26.20	26.00	0.4035	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
499	26.00	25.80	0.4040	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
500	25.80	25.60	0.4044	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
501	25.60	25.40	0.4049	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
502	25.40	25.20	0.4054	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
503	25.20	25.00	0.4059	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
504	25.00	24.80	0.4063	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
505	24.80	24.60	0.2038	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
506	24.60	24.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
507	24.40	24.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
508	24.20	24.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
509	24.00	23.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
510	23.80	23.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
511	23.60	23.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
512	23.40	23.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
513	23.20	23.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
514	23.00	22.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
515	22.80	22.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
516	22.60	22.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
517	22.40	22.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
518	22.20	22.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
519	22.00	21.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
520	21.80	21.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
521	21.60	21.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
522	21.40	21.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
523	21.20	21.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
524	21.00	20.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
525	20.80	20.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
526	20.60	20.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
527	20.40	20.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
528	20.20	20.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
529	20.00	19.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
530	19.80	19.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
531	19.60	19.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
532	19.40	19.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
533	19.20	19.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
534	19.00	18.80	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
535	18.80	18.60	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
536	18.60	18.40	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
537	18.40	18.20	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
538	18.20	18.00	0.2038	0.000	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.000
539	18.00	17.80	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
540	17.80	17.60	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
541	17.60	17.40	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
542	17.40	17.20	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
543	17.20	17.00	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001

544	17.00	16.80	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
545	16.80	16.60	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
546	16.60	16.40	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
547	16.40	16.20	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
548	16.20	16.00	0.5642	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
579	16.00	15.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
580	15.80	15.60	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
581	15.60	15.40	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
582	15.40	15.20	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
583	15.20	15.00	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
584	15.00	14.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
585	14.80	14.60	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
586	14.60	14.40	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
587	14.40	14.20	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
588	14.20	14.00	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
589	14.00	13.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
590	13.80	13.60	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
591	13.60	13.40	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
592	13.40	13.20	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
593	13.20	13.00	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
594	13.00	12.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
595	12.80	12.60	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
596	12.60	12.40	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
597	12.40	12.20	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
598	12.20	12.00	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
599	12.00	11.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
600	11.80	11.60	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
601	11.60	11.40	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
602	11.40	11.20	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
603	11.20	11.00	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
604	11.00	10.80	0.7672	0.003	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.003
605	10.80	10.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
606	10.60	10.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
607	10.40	10.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
608	10.20	10.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
609	10.00	9.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
610	9.80	9.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
611	9.60	9.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
612	9.40	9.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
613	9.20	9.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
614	9.00	8.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
615	8.80	8.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
616	8.60	8.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
617	8.40	8.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
618	8.20	8.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
619	8.00	7.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
620	7.80	7.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
621	7.60	7.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
622	7.40	7.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
623	7.20	7.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
624	7.00	6.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003

625	6.80	6.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
626	6.60	6.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
627	6.40	6.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
628	6.20	6.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
629	6.00	5.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
630	5.80	5.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
631	5.60	5.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
632	5.40	5.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
633	5.20	5.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
634	5.00	4.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
635	4.80	4.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
636	4.60	4.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
637	4.40	4.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
638	4.20	4.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
639	4.00	3.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
640	3.80	3.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
641	3.60	3.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
642	3.40	3.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
643	3.20	3.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
644	3.00	2.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
645	2.80	2.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
646	2.60	2.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
647	2.40	2.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
648	2.20	2.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
649	2.00	1.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
650	1.80	1.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
651	1.60	1.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
652	1.40	1.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
653	1.20	1.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
654	1.00	0.80	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
655	0.80	0.60	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
656	0.60	0.40	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
657	0.40	0.20	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003
658	0.20	0.00	0.7672	0.003	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.003

SPECIAL REPORT: Praire
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
549	6.00	5.80	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
550	5.80	5.60	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
551	5.60	5.40	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
552	5.40	5.20	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
553	5.20	5.00	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
554	5.00	4.80	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
555	4.80	4.60	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
556	4.60	4.40	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000

557	4.40	4.20	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
558	4.20	4.00	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
559	4.00	3.80	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
560	3.80	3.60	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
561	3.60	3.40	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
562	3.40	3.20	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
563	3.20	3.00	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
564	3.00	2.80	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
565	2.80	2.60	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
566	2.60	2.40	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
567	2.40	2.20	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
568	2.20	2.00	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
569	2.00	1.80	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
570	1.80	1.60	0.2030	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
571	1.60	1.40	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
572	1.40	1.20	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
573	1.20	1.00	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
574	1.00	0.80	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
575	0.80	0.60	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
576	0.60	0.40	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
577	0.40	0.20	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001
578	0.20	0.00	0.2030	0.001	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.001

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 1 Black Lake Bayou Summer Projection

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A	COLI #/100mL	NCM
1	HDWTR	0.05400	27.70	0.00	0.00	0.00	5.24	1.69	0.00	1.69	0.00	0.91	0.15	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00047	27.70	0.00	0.00	0.00	5.30	1.32	0.00		1.32	0.13	0.05	0.00	0.00	0.00		
1	WSTLD	0.05600	27.70	0.00	0.00	0.00	5.23	1.72	0.00	1.72	0.00	0.92	0.15	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN	MEAN VELO m/s
1	125.60	125.40	0.11047	50.7	0.01839	0.13	0.71	8.52	1201.58	1704.28	6.01	0.00	0.000	0.000	0.018	
2	125.40	125.20	0.11094	50.5	0.01842	0.13	0.71	8.53	1204.48	1705.15	6.02	0.00	0.000	0.000	0.018	
3	125.20	125.00	0.11141	50.3	0.01845	0.13	0.71	8.53	1207.38	1706.01	6.04	0.00	0.000	0.000	0.018	
4	125.00	124.80	0.11187	50.1	0.01849	0.13	0.71	8.53	1210.27	1706.87	6.05	0.00	0.000	0.000	0.018	
5	124.80	124.60	0.11234	49.8	0.01852	0.12	0.71	8.54	1213.16	1707.73	6.07	0.00	0.000	0.000	0.019	
6	124.60	124.40	0.11281	49.6	0.01855	0.12	0.71	8.54	1216.04	1708.58	6.08	0.00	0.000	0.000	0.019	
7	124.40	124.20	0.11328	49.4	0.01859	0.12	0.71	8.55	1218.92	1709.43	6.09	0.00	0.000	0.000	0.019	

8	124.20	124.00	0.11375	49.2	0.01862	0.12	0.71	8.55	1221.79	1710.28	6.11	0.00	0.000	0.000	0.019
9	124.00	123.80	0.11422	49.0	0.01865	0.12	0.72	8.56	1224.65	1711.12	6.12	0.00	0.000	0.000	0.019
10	123.80	123.60	0.11469	48.8	0.01869	0.12	0.72	8.56	1227.52	1711.96	6.14	0.00	0.000	0.000	0.019
11	123.60	123.40	0.11515	48.6	0.01872	0.12	0.72	8.56	1230.37	1712.80	6.15	0.00	0.000	0.000	0.019
12	123.40	123.20	0.11562	48.4	0.01875	0.12	0.72	8.57	1233.22	1713.63	6.17	0.00	0.000	0.000	0.019
13	123.20	123.00	0.11609	48.2	0.01878	0.12	0.72	8.57	1236.07	1714.47	6.18	0.00	0.000	0.000	0.019
14	123.00	122.80	0.11656	48.0	0.01882	0.12	0.72	8.58	1238.91	1715.30	6.19	0.00	0.000	0.000	0.019
15	122.80	122.60	0.11703	47.9	0.01885	0.12	0.72	8.58	1241.75	1716.12	6.21	0.00	0.000	0.000	0.019
16	122.60	122.40	0.11750	47.7	0.01888	0.12	0.72	8.58	1244.58	1716.94	6.22	0.00	0.000	0.000	0.019
17	122.40	122.20	0.11797	47.5	0.01891	0.12	0.73	8.59	1247.41	1717.76	6.24	0.00	0.000	0.000	0.019
18	122.20	122.00	0.11843	47.3	0.01895	0.12	0.73	8.59	1250.23	1718.58	6.25	0.00	0.000	0.000	0.019
19	122.00	121.80	0.11890	47.1	0.01898	0.12	0.73	8.60	1253.04	1719.40	6.27	0.00	0.000	0.000	0.019
20	121.80	121.60	0.11937	46.9	0.01901	0.12	0.73	8.60	1255.86	1720.21	6.28	0.00	0.000	0.000	0.019
21	121.60	121.40	0.11984	46.7	0.01904	0.12	0.73	8.61	1258.66	1721.02	6.29	0.00	0.000	0.000	0.019
22	121.40	121.20	0.12031	46.5	0.01907	0.12	0.73	8.61	1261.47	1721.82	6.31	0.00	0.000	0.000	0.019
23	121.20	121.00	0.12078	46.4	0.01911	0.12	0.73	8.61	1264.27	1722.63	6.32	0.00	0.000	0.000	0.019
24	121.00	120.80	0.12125	46.2	0.01914	0.12	0.74	8.62	1267.06	1723.43	6.34	0.00	0.000	0.000	0.019
25	120.80	120.60	0.12171	46.0	0.01917	0.12	0.74	8.62	1269.85	1724.23	6.35	0.00	0.000	0.000	0.019
26	120.60	120.40	0.12218	45.8	0.01920	0.12	0.74	8.63	1272.63	1725.02	6.36	0.00	0.000	0.000	0.019
27	120.40	120.20	0.12265	45.7	0.01923	0.12	0.74	8.63	1275.41	1725.81	6.38	0.00	0.000	0.000	0.019
28	120.20	120.00	0.12312	45.5	0.01926	0.12	0.74	8.63	1278.19	1726.60	6.39	0.00	0.000	0.000	0.019
29	120.00	119.80	0.12359	45.3	0.01930	0.12	0.74	8.64	1280.96	1727.39	6.40	0.00	0.000	0.000	0.019
30	119.80	119.60	0.12406	45.1	0.01933	0.12	0.74	8.64	1283.72	1728.17	6.42	0.00	0.000	0.000	0.019
31	119.60	119.40	0.12453	45.0	0.01936	0.12	0.74	8.64	1286.48	1728.96	6.43	0.00	0.000	0.000	0.019
32	119.40	119.20	0.12499	44.8	0.01939	0.12	0.75	8.65	1289.24	1729.74	6.45	0.00	0.000	0.000	0.019
33	119.20	119.00	0.12546	44.6	0.01942	0.12	0.75	8.65	1291.99	1730.51	6.46	0.00	0.000	0.000	0.019
34	119.00	118.80	0.12593	44.5	0.01945	0.12	0.75	8.66	1294.74	1731.29	6.47	0.00	0.000	0.000	0.019
35	118.80	118.60	0.12640	44.3	0.01948	0.12	0.75	8.66	1297.49	1732.06	6.49	0.00	0.000	0.000	0.019
36	118.60	118.40	0.12687	44.1	0.01951	0.12	0.75	8.66	1300.23	1732.83	6.50	0.00	0.000	0.000	0.020
37	118.40	118.20	0.12734	44.0	0.01955	0.12	0.75	8.67	1302.96	1733.60	6.51	0.00	0.000	0.000	0.020
38	118.20	118.00	0.12781	43.8	0.01958	0.12	0.75	8.67	1305.69	1734.36	6.53	0.00	0.000	0.000	0.020
39	118.00	117.80	0.12827	43.7	0.01961	0.12	0.75	8.68	1308.42	1735.12	6.54	0.00	0.000	0.000	0.020
40	117.80	117.60	0.12874	43.5	0.01964	0.12	0.76	8.68	1311.14	1735.88	6.56	0.00	0.000	0.000	0.020
41	117.60	117.40	0.12921	43.3	0.01967	0.12	0.76	8.68	1313.86	1736.64	6.57	0.00	0.000	0.000	0.020
42	117.40	117.20	0.12968	43.2	0.01970	0.12	0.76	8.69	1316.57	1737.39	6.58	0.00	0.000	0.000	0.020
43	117.20	117.00	0.13015	43.0	0.01973	0.12	0.76	8.69	1319.28	1738.14	6.60	0.00	0.000	0.000	0.020
44	117.00	116.80	0.13062	42.9	0.01976	0.12	0.76	8.69	1321.99	1738.89	6.61	0.00	0.000	0.000	0.020
45	116.80	116.60	0.13109	42.7	0.01979	0.12	0.76	8.70	1324.69	1739.64	6.62	0.00	0.000	0.000	0.020
46	116.60	116.40	0.13155	42.6	0.01982	0.12	0.76	8.70	1327.38	1740.39	6.64	0.00	0.000	0.000	0.020
47	116.40	116.20	0.13202	42.4	0.01985	0.12	0.76	8.71	1330.08	1741.13	6.65	0.00	0.000	0.000	0.020
48	116.20	116.00	0.13249	42.3	0.01988	0.12	0.77	8.71	1332.77	1741.87	6.66	0.00	0.000	0.000	0.020
49	116.00	115.80	0.13296	42.1	0.01991	0.12	0.77	8.71	1335.45	1742.61	6.68	0.00	0.000	0.000	0.020
50	115.80	115.60	0.13343	42.0	0.01994	0.12	0.77	8.72	1338.13	1743.34	6.69	0.00	0.000	0.000	0.020
51	115.60	115.40	0.13390	41.8	0.01997	0.12	0.77	8.72	1340.81	1744.08	6.70	0.00	0.000	0.000	0.020
52	115.40	115.20	0.13437	41.7	0.02000	0.12	0.77	8.72	1343.48	1744.81	6.72	0.00	0.000	0.000	0.020
53	115.20	115.00	0.13483	41.5	0.02003	0.12	0.77	8.73	1346.15	1745.54	6.73	0.00	0.000	0.000	0.020
54	115.00	114.80	0.13530	41.4	0.02006	0.12	0.77	8.73	1348.81	1746.26	6.74	0.00	0.000	0.000	0.020
55	114.80	114.60	0.13577	41.2	0.02009	0.12	0.77	8.73	1351.47	1746.99	6.76	0.00	0.000	0.000	0.020
56	114.60	114.40	0.13624	41.1	0.02012	0.12	0.77	8.74	1354.13	1747.71	6.77	0.00	0.000	0.000	0.020
57	114.40	114.20	0.13671	41.0	0.02015	0.11	0.78	8.74	1356.78	1748.43	6.78	0.00	0.000	0.000	0.020
58	114.20	114.00	0.13718	40.8	0.02018	0.11	0.78	8.75	1359.43	1749.15	6.80	0.00	0.000	0.000	0.020

59	114.00	113.80	0.13765	40.7	0.02021	0.11	0.78	8.75	1362.08	1749.86	6.81	0.00	0.000	0.000	0.020
60	113.80	113.60	0.13811	40.5	0.02024	0.11	0.78	8.75	1364.72	1750.58	6.82	0.00	0.000	0.000	0.020
61	113.60	113.40	0.13858	40.4	0.02027	0.11	0.78	8.76	1367.35	1751.29	6.84	0.00	0.000	0.000	0.020
62	113.40	113.20	0.13905	40.3	0.02030	0.11	0.78	8.76	1369.99	1752.00	6.85	0.00	0.000	0.000	0.020
63	113.20	113.00	0.13952	40.1	0.02033	0.11	0.78	8.76	1372.62	1752.71	6.86	0.00	0.000	0.000	0.020
64	113.00	112.80	0.13999	40.0	0.02036	0.11	0.78	8.77	1375.24	1753.41	6.88	0.00	0.000	0.000	0.020
65	112.80	112.60	0.14046	39.9	0.02039	0.11	0.79	8.77	1377.86	1754.12	6.89	0.00	0.000	0.000	0.020
66	112.60	112.40	0.14093	39.7	0.02042	0.11	0.79	8.77	1380.48	1754.82	6.90	0.00	0.000	0.000	0.020
67	112.40	112.20	0.14139	39.6	0.02045	0.11	0.79	8.78	1383.10	1755.52	6.92	0.00	0.000	0.000	0.020
68	112.20	112.00	0.14186	39.5	0.02048	0.11	0.79	8.78	1385.71	1756.21	6.93	0.00	0.000	0.000	0.020
69	112.00	111.80	0.14233	39.3	0.02050	0.11	0.79	8.78	1388.31	1756.91	6.94	0.00	0.000	0.000	0.021
70	111.80	111.60	0.14280	39.2	0.02053	0.11	0.79	8.79	1390.92	1757.60	6.95	0.00	0.000	0.000	0.021

TOT			8.32		90857.45	121235.10	
AVG		0.0195		0.75	8.66		6.49
CUM			8.32				

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da
1	125.400	7.87	1.52	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.17	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
2	125.200	7.87	1.52	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.17	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
3	125.000	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
4	124.800	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
5	124.600	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
6	124.400	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
7	124.200	7.87	1.51	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
8	124.000	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
9	123.800	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
10	123.600	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
11	123.400	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
12	123.200	7.87	1.50	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
13	123.000	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
14	122.800	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
15	122.600	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
16	122.400	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
17	122.200	7.87	1.49	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
18	122.000	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
19	121.800	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
20	121.600	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
21	121.400	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
22	121.200	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
23	121.000	7.87	1.48	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
24	120.800	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
25	120.600	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
26	120.400	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
27	120.200	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

28	120.000	7.87	1.47	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
29	119.800	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
30	119.600	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
31	119.400	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
32	119.200	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
33	119.000	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
34	118.800	7.87	1.46	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
35	118.600	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
36	118.400	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
37	118.200	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
38	118.000	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
39	117.800	7.87	1.45	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
40	117.600	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
41	117.400	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
42	117.200	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
43	117.000	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
44	116.800	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
45	116.600	7.87	1.44	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
46	116.400	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
47	116.200	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
48	116.000	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
49	115.800	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
50	115.600	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
51	115.400	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
52	115.200	7.87	1.43	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
53	115.000	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
54	114.800	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
55	114.600	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
56	114.400	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
57	114.200	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
58	114.000	7.87	1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
59	113.800	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
60	113.600	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
61	113.400	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
62	113.200	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
63	113.000	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
64	112.800	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
65	112.600	7.87	1.41	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
66	112.400	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
67	112.200	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
68	112.000	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
69	111.800	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
70	111.600	7.87	1.40	0.09	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.26	0.06	0.00	0.00	0.00	0.00	0.00	1.45			0.02	0.00	0.11	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
1	125.400	27.70	0.00	0.00	0.00	5.36	1.71	0.00	1.71	0.00	0.92	0.15	0.02	1.08	0.00	20.00	0.00	0.	0.00
2	125.200	27.70	0.00	0.00	0.00	5.46	1.70	0.00	1.70	0.00	0.92	0.15	0.01	1.08	0.00	20.00	0.00	0.	0.00
3	125.000	27.70	0.00	0.00	0.00	5.54	1.70	0.00	1.70	0.00	0.92	0.15	0.01	1.07	0.00	20.00	0.00	0.	0.00
4	124.800	27.70	0.00	0.00	0.00	5.61	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
5	124.600	27.70	0.00	0.00	0.00	5.67	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
6	124.400	27.70	0.00	0.00	0.00	5.72	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
7	124.200	27.70	0.00	0.00	0.00	5.76	1.70	0.00	1.70	0.00	0.92	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
8	124.000	27.70	0.00	0.00	0.00	5.80	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
9	123.800	27.70	0.00	0.00	0.00	5.83	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
10	123.600	27.70	0.00	0.00	0.00	5.85	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
11	123.400	27.70	0.00	0.00	0.00	5.87	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
12	123.200	27.70	0.00	0.00	0.00	5.89	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
13	123.000	27.70	0.00	0.00	0.00	5.91	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
14	122.800	27.70	0.00	0.00	0.00	5.92	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
15	122.600	27.70	0.00	0.00	0.00	5.93	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
16	122.400	27.70	0.00	0.00	0.00	5.94	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
17	122.200	27.70	0.00	0.00	0.00	5.95	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
18	122.000	27.70	0.00	0.00	0.00	5.96	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
19	121.800	27.70	0.00	0.00	0.00	5.97	1.70	0.00	1.70	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
20	121.600	27.70	0.00	0.00	0.00	5.97	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
21	121.400	27.70	0.00	0.00	0.00	5.98	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
22	121.200	27.70	0.00	0.00	0.00	5.98	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
23	121.000	27.70	0.00	0.00	0.00	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
24	120.800	27.70	0.00	0.00	0.00	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
25	120.600	27.70	0.00	0.00	0.00	5.99	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
26	120.400	27.70	0.00	0.00	0.00	6.00	1.69	0.00	1.69	0.00	0.92	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
27	120.200	27.70	0.00	0.00	0.00	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
28	120.000	27.70	0.00	0.00	0.00	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
29	119.800	27.70	0.00	0.00	0.00	6.00	1.69	0.00	1.69	0.00	0.93	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
30	119.600	27.70	0.00	0.00	0.00	6.01	1.68	0.00	1.68	0.00	0.93	0.14	0.00	1.06	0.00	20.00	0.00	0.	0.00
31	119.400	27.70	0.00	0.00	0.00	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
32	119.200	27.70	0.00	0.00	0.00	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
33	119.000	27.70	0.00	0.00	0.00	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
34	118.800	27.70	0.00	0.00	0.00	6.01	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
35	118.600	27.70	0.00	0.00	0.00	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
36	118.400	27.70	0.00	0.00	0.00	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
37	118.200	27.70	0.00	0.00	0.00	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
38	118.000	27.70	0.00	0.00	0.00	6.02	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
39	117.800	27.70	0.00	0.00	0.00	6.02	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
40	117.600	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
41	117.400	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
42	117.200	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
43	117.000	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
44	116.800	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
45	116.600	27.70	0.00	0.00	0.00	6.03	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
46	116.400	27.70	0.00	0.00	0.00	6.04	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
47	116.200	27.70	0.00	0.00	0.00	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
48	116.000	27.70	0.00	0.00	0.00	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00

49	115.800	27.70	0.00	0.00	0.00	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
50	115.600	27.70	0.00	0.00	0.00	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
51	115.400	27.70	0.00	0.00	0.00	6.04	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
52	115.200	27.70	0.00	0.00	0.00	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
53	115.000	27.70	0.00	0.00	0.00	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
54	114.800	27.70	0.00	0.00	0.00	6.05	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
55	114.600	27.70	0.00	0.00	0.00	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
56	114.400	27.70	0.00	0.00	0.00	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
57	114.200	27.70	0.00	0.00	0.00	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
58	114.000	27.70	0.00	0.00	0.00	6.05	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
59	113.800	27.70	0.00	0.00	0.00	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
60	113.600	27.70	0.00	0.00	0.00	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
61	113.400	27.70	0.00	0.00	0.00	6.06	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
62	113.200	27.70	0.00	0.00	0.00	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
63	113.000	27.70	0.00	0.00	0.00	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
64	112.800	27.70	0.00	0.00	0.00	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
65	112.600	27.70	0.00	0.00	0.00	6.06	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
66	112.400	27.70	0.00	0.00	0.00	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
67	112.200	27.70	0.00	0.00	0.00	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
68	112.000	27.70	0.00	0.00	0.00	6.07	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
69	111.800	27.70	0.00	0.00	0.00	6.07	1.63	0.00	1.63	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
70	111.600	27.70	0.00	0.00	0.00	6.07	1.63	0.00	1.63	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 2 Black Lake Bayou Summer Projection

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
71	UPR RCH	0.14280	27.70	0.00	0.00	0.00	6.07	1.63	0.00	1.63	0.00	0.93	0.13	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00047	27.70	0.00	0.00	0.00	5.30	1.32	0.00		1.32	0.13	0.05	0.00	0.00	0.00		
119	WSTLD	0.02300	27.70	0.00	0.00	0.00	5.55	1.72	0.00	1.72	0.00	0.92	0.15	0.05	0.00	20.00	0.00	0.00
142	WSTLD	0.01600	27.70	0.00	0.00	0.00	5.30	1.72	0.00	1.72	0.00	0.92	0.15	0.05	0.00	20.00	0.00	0.00
231	WSTLD	0.01800	27.70	0.00	0.00	0.00	5.30	1.72	0.00	1.72	0.00	0.92	0.15	0.05	0.00	20.00	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 m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO m/s
71	111.60	111.40	0.14327	39.1	0.02413	0.10	0.63	9.43	1187.30	1885.02	5.94	0.00	0.000	0.000	0.024		
72	111.40	111.20	0.14374	39.0	0.02417	0.10	0.63	9.43	1189.51	1885.76	5.95	0.00	0.000	0.000	0.024		
73	111.20	111.00	0.14421	38.8	0.02420	0.10	0.63	9.43	1191.72	1886.49	5.96	0.00	0.000	0.000	0.024		
74	111.00	110.80	0.14468	38.7	0.02424	0.10	0.63	9.44	1193.93	1887.23	5.97	0.00	0.000	0.000	0.024		
75	110.80	110.60	0.14514	38.6	0.02427	0.10	0.63	9.44	1196.14	1887.96	5.98	0.00	0.000	0.000	0.024		

76	110.60	110.40	0.14561	38.5	0.02430	0.10	0.63	9.44	1198.34	1888.69	5.99	0.00	0.000	0.000	0.024
77	110.40	110.20	0.14608	38.3	0.02434	0.10	0.64	9.45	1200.54	1889.42	6.00	0.00	0.000	0.000	0.024
78	110.20	110.00	0.14655	38.2	0.02437	0.09	0.64	9.45	1202.73	1890.15	6.01	0.00	0.000	0.000	0.024
79	110.00	109.80	0.14702	38.1	0.02440	0.09	0.64	9.45	1204.92	1890.87	6.02	0.00	0.000	0.000	0.024
80	109.80	109.60	0.14749	38.0	0.02444	0.09	0.64	9.46	1207.11	1891.60	6.04	0.00	0.000	0.000	0.024
81	109.60	109.40	0.14796	37.8	0.02447	0.09	0.64	9.46	1209.30	1892.32	6.05	0.00	0.000	0.000	0.024
82	109.40	109.20	0.14843	37.7	0.02450	0.09	0.64	9.47	1211.48	1893.04	6.06	0.00	0.000	0.000	0.025
83	109.20	109.00	0.14890	37.6	0.02454	0.09	0.64	9.47	1213.66	1893.75	6.07	0.00	0.000	0.000	0.025
84	109.00	108.80	0.14937	37.5	0.02457	0.09	0.64	9.47	1215.84	1894.47	6.08	0.00	0.000	0.000	0.025
85	108.80	108.60	0.14983	37.4	0.02460	0.09	0.64	9.48	1218.02	1895.18	6.09	0.00	0.000	0.000	0.025
86	108.60	108.40	0.15030	37.3	0.02464	0.09	0.64	9.48	1220.19	1895.89	6.10	0.00	0.000	0.000	0.025
87	108.40	108.20	0.15077	37.1	0.02467	0.09	0.64	9.48	1222.36	1896.60	6.11	0.00	0.000	0.000	0.025
88	108.20	108.00	0.15124	37.0	0.02470	0.09	0.65	9.49	1224.52	1897.31	6.12	0.00	0.000	0.000	0.025
89	108.00	107.80	0.15171	36.9	0.02474	0.09	0.65	9.49	1226.69	1898.01	6.13	0.00	0.000	0.000	0.025
90	107.80	107.60	0.15218	36.8	0.02477	0.09	0.65	9.49	1228.85	1898.72	6.14	0.00	0.000	0.000	0.025
91	107.60	107.40	0.15265	36.7	0.02480	0.09	0.65	9.50	1231.00	1899.42	6.16	0.00	0.000	0.000	0.025
92	107.40	107.20	0.15312	36.6	0.02483	0.09	0.65	9.50	1233.16	1900.12	6.17	0.00	0.000	0.000	0.025
93	107.20	107.00	0.15359	36.5	0.02487	0.09	0.65	9.50	1235.31	1900.81	6.18	0.00	0.000	0.000	0.025
94	107.00	106.80	0.15406	36.4	0.02490	0.09	0.65	9.51	1237.46	1901.51	6.19	0.00	0.000	0.000	0.025
95	106.80	106.60	0.15452	36.2	0.02493	0.09	0.65	9.51	1239.60	1902.20	6.20	0.00	0.000	0.000	0.025
96	106.60	106.40	0.15499	36.1	0.02496	0.09	0.65	9.51	1241.75	1902.89	6.21	0.00	0.000	0.000	0.025
97	106.40	106.20	0.15546	36.0	0.02500	0.09	0.65	9.52	1243.89	1903.58	6.22	0.00	0.000	0.000	0.025
98	106.20	106.00	0.15593	35.9	0.02503	0.09	0.65	9.52	1246.03	1904.27	6.23	0.00	0.000	0.000	0.025
99	106.00	105.80	0.15640	35.8	0.02506	0.09	0.66	9.52	1248.16	1904.96	6.24	0.00	0.000	0.000	0.025
100	105.80	105.60	0.15687	35.7	0.02509	0.09	0.66	9.53	1250.29	1905.64	6.25	0.00	0.000	0.000	0.025
101	105.60	105.40	0.15734	35.6	0.02513	0.09	0.66	9.53	1252.42	1906.33	6.26	0.00	0.000	0.000	0.025
102	105.40	105.20	0.15781	35.5	0.02516	0.09	0.66	9.54	1254.55	1907.01	6.27	0.00	0.000	0.000	0.025
103	105.20	105.00	0.15828	35.4	0.02519	0.09	0.66	9.54	1256.67	1907.69	6.28	0.00	0.000	0.000	0.025
104	105.00	104.80	0.15875	35.3	0.02522	0.09	0.66	9.54	1258.79	1908.36	6.29	0.00	0.000	0.000	0.025
105	104.80	104.60	0.15921	35.2	0.02525	0.09	0.66	9.55	1260.91	1909.04	6.30	0.00	0.000	0.000	0.025
106	104.60	104.40	0.15968	35.1	0.02529	0.09	0.66	9.55	1263.03	1909.71	6.32	0.00	0.000	0.000	0.025
107	104.40	104.20	0.16015	35.0	0.02532	0.09	0.66	9.55	1265.14	1910.39	6.33	0.00	0.000	0.000	0.025
108	104.20	104.00	0.16062	34.9	0.02535	0.09	0.66	9.56	1267.25	1911.06	6.34	0.00	0.000	0.000	0.025
109	104.00	103.80	0.16109	34.8	0.02538	0.09	0.66	9.56	1269.36	1911.73	6.35	0.00	0.000	0.000	0.025
110	103.80	103.60	0.16156	34.7	0.02541	0.09	0.66	9.56	1271.46	1912.39	6.36	0.00	0.000	0.000	0.025
111	103.60	103.40	0.16203	34.6	0.02544	0.09	0.67	9.57	1273.57	1913.06	6.37	0.00	0.000	0.000	0.025
112	103.40	103.20	0.16250	34.5	0.02548	0.09	0.67	9.57	1275.67	1913.72	6.38	0.00	0.000	0.000	0.025
113	103.20	103.00	0.16297	34.4	0.02551	0.09	0.67	9.57	1277.76	1914.38	6.39	0.00	0.000	0.000	0.026
114	103.00	102.80	0.16344	34.3	0.02554	0.09	0.67	9.58	1279.86	1915.04	6.40	0.00	0.000	0.000	0.026
115	102.80	102.60	0.16390	34.2	0.02557	0.09	0.67	9.58	1281.95	1915.70	6.41	0.00	0.000	0.000	0.026
116	102.60	102.40	0.16437	34.1	0.02560	0.09	0.67	9.58	1284.04	1916.36	6.42	0.00	0.000	0.000	0.026
117	102.40	102.20	0.16484	34.0	0.02563	0.09	0.67	9.59	1286.13	1917.01	6.43	0.00	0.000	0.000	0.026
118	102.20	102.00	0.16531	33.9	0.02567	0.09	0.67	9.59	1288.21	1917.67	6.44	0.00	0.000	0.000	0.026
119	102.00	101.80	0.18878	41.8	0.02717	0.09	0.71	9.74	1389.47	1948.46	6.95	0.00	0.000	0.000	0.027
120	101.80	101.60	0.18925	41.7	0.02720	0.09	0.71	9.75	1391.44	1949.04	6.96	0.00	0.000	0.000	0.027
121	101.60	101.40	0.18972	41.6	0.02723	0.09	0.71	9.75	1393.40	1949.62	6.97	0.00	0.000	0.000	0.027
122	101.40	101.20	0.19019	41.5	0.02726	0.08	0.72	9.75	1395.37	1950.20	6.98	0.00	0.000	0.000	0.027
123	101.20	101.00	0.19066	41.4	0.02729	0.08	0.72	9.75	1397.33	1950.78	6.99	0.00	0.000	0.000	0.027
124	101.00	100.80	0.19113	41.3	0.02732	0.08	0.72	9.76	1399.28	1951.35	7.00	0.00	0.000	0.000	0.027
125	100.80	100.60	0.19159	41.2	0.02735	0.08	0.72	9.76	1401.24	1951.92	7.01	0.00	0.000	0.000	0.027
126	100.60	100.40	0.19206	41.1	0.02738	0.08	0.72	9.76	1403.19	1952.50	7.02	0.00	0.000	0.000	0.027

127	100.40	100.20	0.19253	41.0	0.02740	0.08	0.72	9.77	1405.15	1953.07	7.03	0.00	0.000	0.000	0.027
128	100.20	100.00	0.19300	40.9	0.02743	0.08	0.72	9.77	1407.10	1953.64	7.04	0.00	0.000	0.000	0.027
129	100.00	99.80	0.19347	40.8	0.02746	0.08	0.72	9.77	1409.04	1954.21	7.05	0.00	0.000	0.000	0.027
130	99.80	99.60	0.19394	40.7	0.02749	0.08	0.72	9.77	1410.99	1954.78	7.05	0.00	0.000	0.000	0.027
131	99.60	99.40	0.19441	40.6	0.02752	0.08	0.72	9.78	1412.93	1955.34	7.06	0.00	0.000	0.000	0.028
132	99.40	99.20	0.19488	40.5	0.02755	0.08	0.72	9.78	1414.88	1955.91	7.07	0.00	0.000	0.000	0.028
133	99.20	99.00	0.19535	40.4	0.02758	0.08	0.72	9.78	1416.82	1956.47	7.08	0.00	0.000	0.000	0.028
134	99.00	98.80	0.19582	40.3	0.02760	0.08	0.72	9.79	1418.75	1957.04	7.09	0.00	0.000	0.000	0.028
135	98.80	98.60	0.19628	40.2	0.02763	0.08	0.73	9.79	1420.69	1957.60	7.10	0.00	0.000	0.000	0.028
136	98.60	98.40	0.19675	40.2	0.02766	0.08	0.73	9.79	1422.62	1958.16	7.11	0.00	0.000	0.000	0.028
137	98.40	98.20	0.19722	40.1	0.02769	0.08	0.73	9.79	1424.56	1958.72	7.12	0.00	0.000	0.000	0.028
138	98.20	98.00	0.19769	40.0	0.02772	0.08	0.73	9.80	1426.49	1959.28	7.13	0.00	0.000	0.000	0.028
139	98.00	97.80	0.19816	39.9	0.02775	0.08	0.73	9.80	1428.41	1959.83	7.14	0.00	0.000	0.000	0.028
140	97.80	97.60	0.19863	39.8	0.02777	0.08	0.73	9.80	1430.34	1960.39	7.15	0.00	0.000	0.000	0.028
141	97.60	97.40	0.19910	39.7	0.02780	0.08	0.73	9.80	1432.26	1960.94	7.16	0.00	0.000	0.000	0.028
142	97.40	97.20	0.21557	44.1	0.02877	0.08	0.76	9.90	1498.64	1979.73	7.49	0.00	0.000	0.000	0.029
143	97.20	97.00	0.21604	44.0	0.02880	0.08	0.76	9.90	1500.50	1980.25	7.50	0.00	0.000	0.000	0.029
144	97.00	96.80	0.21651	43.9	0.02882	0.08	0.76	9.90	1502.35	1980.77	7.51	0.00	0.000	0.000	0.029
145	96.80	96.60	0.21697	43.8	0.02885	0.08	0.76	9.91	1504.21	1981.28	7.52	0.00	0.000	0.000	0.029
146	96.60	96.40	0.21744	43.7	0.02888	0.08	0.76	9.91	1506.06	1981.79	7.53	0.00	0.000	0.000	0.029
147	96.40	96.20	0.21791	43.6	0.02890	0.08	0.76	9.91	1507.91	1982.31	7.54	0.00	0.000	0.000	0.029
148	96.20	96.00	0.21838	43.5	0.02893	0.08	0.76	9.91	1509.76	1982.82	7.55	0.00	0.000	0.000	0.029
149	96.00	95.80	0.21885	43.4	0.02896	0.08	0.76	9.92	1511.61	1983.33	7.56	0.00	0.000	0.000	0.029
150	95.80	95.60	0.21932	43.3	0.02898	0.08	0.76	9.92	1513.45	1983.84	7.57	0.00	0.000	0.000	0.029
151	95.60	95.40	0.21979	43.2	0.02901	0.08	0.76	9.92	1515.29	1984.35	7.58	0.00	0.000	0.000	0.029
152	95.40	95.20	0.22026	43.1	0.02904	0.08	0.76	9.92	1517.14	1984.85	7.59	0.00	0.000	0.000	0.029
153	95.20	95.00	0.22073	43.0	0.02906	0.08	0.77	9.93	1518.98	1985.36	7.59	0.00	0.000	0.000	0.029
154	95.00	94.80	0.22120	42.9	0.02909	0.08	0.77	9.93	1520.82	1985.87	7.60	0.00	0.000	0.000	0.029
155	94.80	94.60	0.22166	42.9	0.02912	0.08	0.77	9.93	1522.65	1986.37	7.61	0.00	0.000	0.000	0.029
156	94.60	94.40	0.22213	42.8	0.02914	0.08	0.77	9.93	1524.49	1986.88	7.62	0.00	0.000	0.000	0.029
157	94.40	94.20	0.22260	42.7	0.02917	0.08	0.77	9.94	1526.32	1987.38	7.63	0.00	0.000	0.000	0.029
158	94.20	94.00	0.22307	42.6	0.02919	0.08	0.77	9.94	1528.16	1987.88	7.64	0.00	0.000	0.000	0.029
159	94.00	93.80	0.22354	42.5	0.02922	0.08	0.77	9.94	1529.99	1988.38	7.65	0.00	0.000	0.000	0.029
160	93.80	93.60	0.22401	42.4	0.02925	0.08	0.77	9.94	1531.81	1988.88	7.66	0.00	0.000	0.000	0.029
161	93.60	93.40	0.22448	42.3	0.02927	0.08	0.77	9.95	1533.64	1989.38	7.67	0.00	0.000	0.000	0.029
162	93.40	93.20	0.22495	42.2	0.02930	0.08	0.77	9.95	1535.47	1989.88	7.68	0.00	0.000	0.000	0.029
163	93.20	93.00	0.22542	42.1	0.02933	0.08	0.77	9.95	1537.29	1990.38	7.69	0.00	0.000	0.000	0.029
164	93.00	92.80	0.22589	42.1	0.02935	0.08	0.77	9.95	1539.11	1990.87	7.70	0.00	0.000	0.000	0.029
165	92.80	92.60	0.22635	42.0	0.02938	0.08	0.77	9.96	1540.93	1991.37	7.70	0.00	0.000	0.000	0.029
166	92.60	92.40	0.22682	41.9	0.02941	0.08	0.77	9.96	1542.75	1991.86	7.71	0.00	0.000	0.000	0.029
167	92.40	92.20	0.22729	41.8	0.02943	0.08	0.78	9.96	1544.57	1992.36	7.72	0.00	0.000	0.000	0.029
168	92.20	92.00	0.22776	41.7	0.02946	0.08	0.78	9.96	1546.39	1992.85	7.73	0.00	0.000	0.000	0.029
169	92.00	91.80	0.22823	41.6	0.02948	0.08	0.78	9.97	1548.20	1993.34	7.74	0.00	0.000	0.000	0.029
170	91.80	91.60	0.22870	41.5	0.02951	0.08	0.78	9.97	1550.01	1993.83	7.75	0.00	0.000	0.000	0.030
171	91.60	91.40	0.22917	41.5	0.02954	0.08	0.78	9.97	1551.82	1994.32	7.76	0.00	0.000	0.000	0.030
172	91.40	91.20	0.22964	41.4	0.02956	0.08	0.78	9.97	1553.63	1994.81	7.77	0.00	0.000	0.000	0.030
173	91.20	91.00	0.23011	41.3	0.02959	0.08	0.78	9.98	1555.44	1995.30	7.78	0.00	0.000	0.000	0.030
174	91.00	90.80	0.23058	41.2	0.02961	0.08	0.78	9.98	1557.25	1995.79	7.79	0.00	0.000	0.000	0.030
175	90.80	90.60	0.23104	41.1	0.02964	0.08	0.78	9.98	1559.05	1996.28	7.80	0.00	0.000	0.000	0.030
176	90.60	90.40	0.23151	41.0	0.02966	0.08	0.78	9.98	1560.86	1996.76	7.80	0.00	0.000	0.000	0.030
177	90.40	90.20	0.23198	41.0	0.02969	0.08	0.78	9.99	1562.66	1997.25	7.81	0.00	0.000	0.000	0.030

178	90.20	90.00	0.23245	40.9	0.02972	0.08	0.78	9.99	1564.46	1997.73	7.82	0.00	0.000	0.000	0.030
179	90.00	89.80	0.23292	40.8	0.02974	0.08	0.78	9.99	1566.26	1998.21	7.83	0.00	0.000	0.000	0.030
180	89.80	89.60	0.23339	40.7	0.02977	0.08	0.78	9.99	1568.05	1998.70	7.84	0.00	0.000	0.000	0.030
181	89.60	89.40	0.23386	40.6	0.02979	0.08	0.79	10.00	1569.85	1999.18	7.85	0.00	0.000	0.000	0.030
182	89.40	89.20	0.23433	40.5	0.02982	0.08	0.79	10.00	1571.64	1999.66	7.86	0.00	0.000	0.000	0.030
183	89.20	89.00	0.23480	40.5	0.02985	0.08	0.79	10.00	1573.43	2000.14	7.87	0.00	0.000	0.000	0.030
184	89.00	88.80	0.23527	40.4	0.02987	0.08	0.79	10.00	1575.22	2000.62	7.88	0.00	0.000	0.000	0.030
185	88.80	88.60	0.23573	40.3	0.02990	0.08	0.79	10.01	1577.01	2001.10	7.89	0.00	0.000	0.000	0.030
186	88.60	88.40	0.23620	40.2	0.02992	0.08	0.79	10.01	1578.80	2001.57	7.89	0.00	0.000	0.000	0.030
187	88.40	88.20	0.23667	40.1	0.02995	0.08	0.79	10.01	1580.59	2002.05	7.90	0.00	0.000	0.000	0.030
188	88.20	88.00	0.23714	40.1	0.02997	0.08	0.79	10.01	1582.37	2002.52	7.91	0.00	0.000	0.000	0.030
189	88.00	87.80	0.23761	40.0	0.03000	0.08	0.79	10.01	1584.15	2003.00	7.92	0.00	0.000	0.000	0.030
190	87.80	87.60	0.23808	39.9	0.03002	0.08	0.79	10.02	1585.94	2003.47	7.93	0.00	0.000	0.000	0.030
191	87.60	87.40	0.23855	39.8	0.03005	0.08	0.79	10.02	1587.72	2003.95	7.94	0.00	0.000	0.000	0.030
192	87.40	87.20	0.23902	39.7	0.03007	0.08	0.79	10.02	1589.49	2004.42	7.95	0.00	0.000	0.000	0.030
193	87.20	87.00	0.23949	39.7	0.03010	0.08	0.79	10.02	1591.27	2004.89	7.96	0.00	0.000	0.000	0.030
194	87.00	86.80	0.23996	39.6	0.03013	0.08	0.79	10.03	1593.05	2005.36	7.97	0.00	0.000	0.000	0.030
195	86.80	86.60	0.24042	39.5	0.03015	0.08	0.80	10.03	1594.82	2005.83	7.97	0.00	0.000	0.000	0.030
196	86.60	86.40	0.24089	39.4	0.03018	0.08	0.80	10.03	1596.59	2006.30	7.98	0.00	0.000	0.000	0.030
197	86.40	86.20	0.24136	39.4	0.03020	0.08	0.80	10.03	1598.37	2006.77	7.99	0.00	0.000	0.000	0.030
198	86.20	86.00	0.24183	39.3	0.03023	0.08	0.80	10.04	1600.13	2007.24	8.00	0.00	0.000	0.000	0.030
199	86.00	85.80	0.24230	39.2	0.03025	0.08	0.80	10.04	1601.90	2007.70	8.01	0.00	0.000	0.000	0.030
200	85.80	85.60	0.24277	39.1	0.03028	0.08	0.80	10.04	1603.67	2008.17	8.02	0.00	0.000	0.000	0.030
201	85.60	85.40	0.24324	39.1	0.03030	0.08	0.80	10.04	1605.43	2008.63	8.03	0.00	0.000	0.000	0.030
202	85.40	85.20	0.24371	39.0	0.03033	0.08	0.80	10.05	1607.20	2009.10	8.04	0.00	0.000	0.000	0.030
203	85.20	85.00	0.24418	38.9	0.03035	0.08	0.80	10.05	1608.96	2009.56	8.04	0.00	0.000	0.000	0.030
204	85.00	84.80	0.24465	38.8	0.03038	0.08	0.80	10.05	1610.72	2010.03	8.05	0.00	0.000	0.000	0.030
205	84.80	84.60	0.24511	38.8	0.03040	0.08	0.80	10.05	1612.48	2010.49	8.06	0.00	0.000	0.000	0.030
206	84.60	84.40	0.24558	38.7	0.03043	0.08	0.80	10.05	1614.24	2010.95	8.07	0.00	0.000	0.000	0.030
207	84.40	84.20	0.24605	38.6	0.03045	0.08	0.80	10.06	1616.00	2011.41	8.08	0.00	0.000	0.000	0.030
208	84.20	84.00	0.24652	38.5	0.03048	0.08	0.80	10.06	1617.75	2011.87	8.09	0.00	0.000	0.000	0.030
209	84.00	83.80	0.24699	38.5	0.03050	0.08	0.80	10.06	1619.50	2012.33	8.10	0.00	0.000	0.000	0.031
210	83.80	83.60	0.24746	38.4	0.03053	0.08	0.81	10.06	1621.26	2012.79	8.11	0.00	0.000	0.000	0.031
211	83.60	83.40	0.24793	38.3	0.03055	0.08	0.81	10.07	1623.01	2013.24	8.12	0.00	0.000	0.000	0.031
212	83.40	83.20	0.24840	38.2	0.03058	0.08	0.81	10.07	1624.76	2013.70	8.12	0.00	0.000	0.000	0.031
213	83.20	83.00	0.24887	38.2	0.03060	0.08	0.81	10.07	1626.50	2014.16	8.13	0.00	0.000	0.000	0.031
214	83.00	82.80	0.24934	38.1	0.03063	0.08	0.81	10.07	1628.25	2014.61	8.14	0.00	0.000	0.000	0.031
215	82.80	82.60	0.24980	38.0	0.03065	0.08	0.81	10.08	1630.00	2015.06	8.15	0.00	0.000	0.000	0.031
216	82.60	82.40	0.25027	38.0	0.03068	0.08	0.81	10.08	1631.74	2015.52	8.16	0.00	0.000	0.000	0.031
217	82.40	82.20	0.25074	37.9	0.03070	0.08	0.81	10.08	1633.48	2015.97	8.17	0.00	0.000	0.000	0.031
218	82.20	82.00	0.25121	37.8	0.03073	0.08	0.81	10.08	1635.22	2016.42	8.18	0.00	0.000	0.000	0.031
219	82.00	81.80	0.25168	37.7	0.03075	0.08	0.81	10.08	1636.96	2016.87	8.18	0.00	0.000	0.000	0.031
220	81.80	81.60	0.25215	37.7	0.03077	0.08	0.81	10.09	1638.70	2017.33	8.19	0.00	0.000	0.000	0.031
221	81.60	81.40	0.25262	37.6	0.03080	0.08	0.81	10.09	1640.44	2017.78	8.20	0.00	0.000	0.000	0.031
222	81.40	81.20	0.25309	37.5	0.03082	0.08	0.81	10.09	1642.17	2018.22	8.21	0.00	0.000	0.000	0.031
223	81.20	81.00	0.25356	37.5	0.03085	0.08	0.81	10.09	1643.91	2018.67	8.22	0.00	0.000	0.000	0.031
224	81.00	80.80	0.25403	37.4	0.03087	0.07	0.82	10.10	1645.64	2019.12	8.23	0.00	0.000	0.000	0.031
225	80.80	80.60	0.25449	37.3	0.03090	0.07	0.82	10.10	1647.37	2019.57	8.24	0.00	0.000	0.000	0.031
226	80.60	80.40	0.25496	37.3	0.03092	0.07	0.82	10.10	1649.10	2020.01	8.25	0.00	0.000	0.000	0.031
227	80.40	80.20	0.25543	37.2	0.03095	0.07	0.82	10.10	1650.83	2020.46	8.25	0.00	0.000	0.000	0.031
228	80.20	80.00	0.25590	37.1	0.03097	0.07	0.82	10.10	1652.55	2020.90	8.26	0.00	0.000	0.000	0.031

229	80.00	79.80	0.25637	37.1	0.03099	0.07	0.82	10.11	1654.28	2021.35	8.27	0.00	0.000	0.000	0.031
230	79.80	79.60	0.25684	37.0	0.03102	0.07	0.82	10.11	1656.00	2021.79	8.28	0.00	0.000	0.000	0.031
231	79.60	79.40	0.27531	41.0	0.03196	0.07	0.85	10.19	1722.87	2038.71	8.61	0.00	0.000	0.000	0.032
232	79.40	79.20	0.27578	41.0	0.03198	0.07	0.85	10.20	1724.54	2039.13	8.62	0.00	0.000	0.000	0.032
233	79.20	79.00	0.27625	40.9	0.03201	0.07	0.85	10.20	1726.21	2039.54	8.63	0.00	0.000	0.000	0.032
234	79.00	78.80	0.27672	40.8	0.03203	0.07	0.85	10.20	1727.88	2039.96	8.64	0.00	0.000	0.000	0.032
235	78.80	78.60	0.27718	40.8	0.03205	0.07	0.85	10.20	1729.55	2040.37	8.65	0.00	0.000	0.000	0.032
236	78.60	78.40	0.27765	40.7	0.03208	0.07	0.85	10.20	1731.21	2040.79	8.66	0.00	0.000	0.000	0.032
237	78.40	78.20	0.27812	40.6	0.03210	0.07	0.85	10.21	1732.88	2041.20	8.66	0.00	0.000	0.000	0.032
238	78.20	78.00	0.27859	40.6	0.03212	0.07	0.85	10.21	1734.55	2041.61	8.67	0.00	0.000	0.000	0.032
239	78.00	77.80	0.27906	40.5	0.03215	0.07	0.85	10.21	1736.21	2042.02	8.68	0.00	0.000	0.000	0.032
240	77.80	77.60	0.27953	40.4	0.03217	0.07	0.85	10.21	1737.87	2042.44	8.69	0.00	0.000	0.000	0.032
241	77.60	77.40	0.28000	40.4	0.03219	0.07	0.85	10.21	1739.53	2042.85	8.70	0.00	0.000	0.000	0.032

TOT			14.08		251400.05	336803.78
AVG		0.0281		0.74	9.85	7.35
CUM			22.41			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	REAER RATE 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 DECAY 1/da	CORR SETT 1/da	ORGN SOD *	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE **	DENIT SRCE **	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
71	111.400	7.87	1.85	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
72	111.200	7.87	1.85	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
73	111.000	7.87	1.85	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
74	110.800	7.87	1.85	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
75	110.600	7.87	1.84	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
76	110.400	7.87	1.84	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
77	110.200	7.87	1.84	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
78	110.000	7.87	1.84	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
79	109.800	7.87	1.84	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
80	109.600	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
81	109.400	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
82	109.200	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
83	109.000	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
84	108.800	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
85	108.600	7.87	1.83	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
86	108.400	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
87	108.200	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
88	108.000	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
89	107.800	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
90	107.600	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
91	107.400	7.87	1.82	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
92	107.200	7.87	1.81	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
93	107.000	7.87	1.81	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
94	106.800	7.87	1.81	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
95	106.600	7.87	1.81	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
96	106.400	7.87	1.81	0.09	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	

97	106.200	7.87	1.81	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
98	106.000	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
99	105.800	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
100	105.600	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
101	105.400	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
102	105.200	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
103	105.000	7.87	1.80	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
104	104.800	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
105	104.600	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
106	104.400	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
107	104.200	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
108	104.000	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
109	103.800	7.87	1.79	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
110	103.600	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
111	103.400	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
112	103.200	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
113	103.000	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
114	102.800	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
115	102.600	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
116	102.400	7.87	1.78	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
117	102.200	7.87	1.77	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
118	102.000	7.87	1.77	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
119	101.800	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
120	101.600	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
121	101.400	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
122	101.200	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
123	101.000	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
124	100.800	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
125	100.600	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
126	100.400	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
127	100.200	7.87	1.70	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
128	100.000	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
129	99.800	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
130	99.600	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
131	99.400	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
132	99.200	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
133	99.000	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
134	98.800	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
135	98.600	7.87	1.69	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
136	98.400	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
137	98.200	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
138	98.000	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
139	97.800	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
140	97.600	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
141	97.400	7.87	1.68	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
142	97.200	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
143	97.000	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
144	96.800	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
145	96.600	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
146	96.400	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
147	96.200	7.87	1.64	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

148	96.000	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
149	95.800	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
150	95.600	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
151	95.400	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
152	95.200	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
153	95.000	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
154	94.800	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
155	94.600	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
156	94.400	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
157	94.200	7.87	1.63	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
158	94.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
159	93.800	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
160	93.600	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
161	93.400	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
162	93.200	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
163	93.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
164	92.800	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
165	92.600	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
166	92.400	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
167	92.200	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
168	92.000	7.87	1.62	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
169	91.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
170	91.600	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
171	91.400	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
172	91.200	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
173	91.000	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
174	90.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
175	90.600	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
176	90.400	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
177	90.200	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
178	90.000	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
179	89.800	7.87	1.61	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
180	89.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
181	89.400	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
182	89.200	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
183	89.000	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
184	88.800	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
185	88.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
186	88.400	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
187	88.200	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
188	88.000	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
189	87.800	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
190	87.600	7.87	1.60	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
191	87.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
192	87.200	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
193	87.000	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
194	86.800	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
195	86.600	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
196	86.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
197	86.200	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
198	86.000	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

199	85.800	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
200	85.600	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
201	85.400	7.87	1.59	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
202	85.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
203	85.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
204	84.800	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
205	84.600	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
206	84.400	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
207	84.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
208	84.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
209	83.800	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
210	83.600	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
211	83.400	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
212	83.200	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
213	83.000	7.87	1.58	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
214	82.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
215	82.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
216	82.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
217	82.200	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
218	82.000	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
219	81.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
220	81.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
221	81.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
222	81.200	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
223	81.000	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
224	80.800	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
225	80.600	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
226	80.400	7.87	1.57	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
227	80.200	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
228	80.000	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
229	79.800	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
230	79.600	7.87	1.56	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
231	79.400	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
232	79.200	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
233	79.000	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
234	78.800	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
235	78.601	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
236	78.401	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
237	78.201	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
238	78.001	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
239	77.801	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
240	77.601	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
241	77.401	7.87	1.53	0.09	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.44	0.06	0.00	0.00	0.00	0.00	0.00	1.62			0.02	0.00	0.11	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
71	111.400	27.70	0.00	0.00	0.00	6.04	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
72	111.200	27.70	0.00	0.00	0.00	6.02	1.64	0.00	1.64	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
73	111.000	27.70	0.00	0.00	0.00	6.00	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
74	110.800	27.70	0.00	0.00	0.00	5.98	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
75	110.600	27.70	0.00	0.00	0.00	5.96	1.65	0.00	1.65	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
76	110.400	27.70	0.00	0.00	0.00	5.95	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
77	110.200	27.70	0.00	0.00	0.00	5.94	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
78	110.000	27.70	0.00	0.00	0.00	5.93	1.66	0.00	1.66	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
79	109.800	27.70	0.00	0.00	0.00	5.93	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
80	109.600	27.70	0.00	0.00	0.00	5.92	1.67	0.00	1.67	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
81	109.400	27.70	0.00	0.00	0.00	5.92	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.06	0.00	20.00	0.00	0.	0.00
82	109.200	27.70	0.00	0.00	0.00	5.91	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
83	109.000	27.70	0.00	0.00	0.00	5.91	1.68	0.00	1.68	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
84	108.800	27.70	0.00	0.00	0.00	5.91	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
85	108.600	27.70	0.00	0.00	0.00	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
86	108.400	27.70	0.00	0.00	0.00	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
87	108.200	27.70	0.00	0.00	0.00	5.90	1.69	0.00	1.69	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
88	108.000	27.70	0.00	0.00	0.00	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
89	107.800	27.70	0.00	0.00	0.00	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
90	107.600	27.70	0.00	0.00	0.00	5.90	1.70	0.00	1.70	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
91	107.400	27.70	0.00	0.00	0.00	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
92	107.200	27.70	0.00	0.00	0.00	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
93	107.000	27.70	0.00	0.00	0.00	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
94	106.800	27.70	0.00	0.00	0.00	5.90	1.71	0.00	1.71	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
95	106.600	27.70	0.00	0.00	0.00	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
96	106.400	27.70	0.00	0.00	0.00	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
97	106.200	27.70	0.00	0.00	0.00	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
98	106.000	27.70	0.00	0.00	0.00	5.90	1.72	0.00	1.72	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
99	105.800	27.70	0.00	0.00	0.00	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
100	105.600	27.70	0.00	0.00	0.00	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
101	105.400	27.70	0.00	0.00	0.00	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
102	105.200	27.70	0.00	0.00	0.00	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
103	105.000	27.70	0.00	0.00	0.00	5.91	1.73	0.00	1.73	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
104	104.800	27.70	0.00	0.00	0.00	5.91	1.74	0.00	1.74	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
105	104.600	27.70	0.00	0.00	0.00	5.91	1.74	0.00	1.74	0.00	0.93	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
106	104.400	27.70	0.00	0.00	0.00	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
107	104.200	27.70	0.00	0.00	0.00	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
108	104.000	27.70	0.00	0.00	0.00	5.91	1.74	0.00	1.74	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
109	103.800	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
110	103.600	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
111	103.400	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
112	103.200	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
113	103.000	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
114	102.800	27.70	0.00	0.00	0.00	5.92	1.75	0.00	1.75	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
115	102.600	27.70	0.00	0.00	0.00	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
116	102.400	27.70	0.00	0.00	0.00	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
117	102.200	27.70	0.00	0.00	0.00	5.92	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
118	102.000	27.70	0.00	0.00	0.00	5.93	1.76	0.00	1.76	0.00	0.92	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00

119	101.800	27.70	0.00	0.00	0.00	5.89	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
120	101.600	27.70	0.00	0.00	0.00	5.91	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
121	101.400	27.70	0.00	0.00	0.00	5.92	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
122	101.200	27.70	0.00	0.00	0.00	5.93	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
123	101.000	27.70	0.00	0.00	0.00	5.93	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
124	100.800	27.70	0.00	0.00	0.00	5.94	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
125	100.600	27.70	0.00	0.00	0.00	5.95	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
126	100.400	27.70	0.00	0.00	0.00	5.95	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
127	100.200	27.70	0.00	0.00	0.00	5.96	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
128	100.000	27.70	0.00	0.00	0.00	5.96	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
129	99.800	27.70	0.00	0.00	0.00	5.97	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
130	99.600	27.70	0.00	0.00	0.00	5.97	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
131	99.400	27.70	0.00	0.00	0.00	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.05	0.00	20.00	0.00	0.	0.00
132	99.200	27.70	0.00	0.00	0.00	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
133	99.000	27.70	0.00	0.00	0.00	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
134	98.800	27.70	0.00	0.00	0.00	5.98	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
135	98.600	27.70	0.00	0.00	0.00	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
136	98.400	27.70	0.00	0.00	0.00	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
137	98.200	27.70	0.00	0.00	0.00	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
138	98.000	27.70	0.00	0.00	0.00	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
139	97.800	27.70	0.00	0.00	0.00	5.99	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
140	97.600	27.70	0.00	0.00	0.00	6.00	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
141	97.400	27.70	0.00	0.00	0.00	6.00	1.76	0.00	1.76	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
142	97.200	27.70	0.00	0.00	0.00	5.96	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
143	97.000	27.70	0.00	0.00	0.00	5.97	1.75	0.00	1.75	0.00	0.92	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
144	96.800	27.70	0.00	0.00	0.00	5.98	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
145	96.600	27.70	0.00	0.00	0.00	5.99	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
146	96.400	27.70	0.00	0.00	0.00	5.99	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
147	96.200	27.70	0.00	0.00	0.00	6.00	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
148	96.000	27.70	0.00	0.00	0.00	6.00	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
149	95.800	27.70	0.00	0.00	0.00	6.01	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
150	95.600	27.70	0.00	0.00	0.00	6.01	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
151	95.400	27.70	0.00	0.00	0.00	6.02	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
152	95.200	27.70	0.00	0.00	0.00	6.02	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
153	95.000	27.70	0.00	0.00	0.00	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
154	94.800	27.70	0.00	0.00	0.00	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
155	94.600	27.70	0.00	0.00	0.00	6.03	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
156	94.400	27.70	0.00	0.00	0.00	6.04	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
157	94.200	27.70	0.00	0.00	0.00	6.04	1.75	0.00	1.75	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
158	94.000	27.70	0.00	0.00	0.00	6.04	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
159	93.800	27.70	0.00	0.00	0.00	6.04	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.04	0.00	20.00	0.00	0.	0.00
160	93.600	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
161	93.400	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
162	93.200	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
163	93.000	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
164	92.800	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
165	92.600	27.70	0.00	0.00	0.00	6.05	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
166	92.400	27.70	0.00	0.00	0.00	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
167	92.200	27.70	0.00	0.00	0.00	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
168	92.000	27.70	0.00	0.00	0.00	6.06	1.74	0.00	1.74	0.00	0.91	0.13	0.00	1.03	0.00	20.00	0.00	0.	0.00
169	91.800	27.70	0.00	0.00	0.00	6.06	1.74	0.00	1.74	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00

170	91.600	27.70	0.00	0.00	0.00	6.06	1.74	0.00	1.74	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
171	91.400	27.70	0.00	0.00	0.00	6.06	1.73	0.00	1.73	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
172	91.200	27.70	0.00	0.00	0.00	6.06	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
173	91.000	27.70	0.00	0.00	0.00	6.06	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
174	90.800	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
175	90.600	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
176	90.400	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
177	90.200	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
178	90.000	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
179	89.800	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
180	89.600	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
181	89.400	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
182	89.200	27.70	0.00	0.00	0.00	6.07	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
183	89.000	27.70	0.00	0.00	0.00	6.08	1.73	0.00	1.73	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
184	88.800	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
185	88.600	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
186	88.400	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
187	88.200	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
188	88.000	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
189	87.800	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
190	87.600	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
191	87.400	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
192	87.200	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
193	87.000	27.70	0.00	0.00	0.00	6.08	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
194	86.800	27.70	0.00	0.00	0.00	6.09	1.72	0.00	1.72	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
195	86.600	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
196	86.400	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
197	86.200	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
198	86.000	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
199	85.800	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
200	85.600	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
201	85.400	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
202	85.200	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
203	85.000	27.70	0.00	0.00	0.00	6.09	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
204	84.800	27.70	0.00	0.00	0.00	6.10	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
205	84.600	27.70	0.00	0.00	0.00	6.10	1.71	0.00	1.71	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
206	84.400	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
207	84.200	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
208	84.000	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
209	83.800	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
210	83.600	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
211	83.400	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
212	83.200	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
213	83.000	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
214	82.800	27.70	0.00	0.00	0.00	6.10	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
215	82.600	27.70	0.00	0.00	0.00	6.11	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
216	82.400	27.70	0.00	0.00	0.00	6.11	1.70	0.00	1.70	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
217	82.200	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
218	82.000	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
219	81.800	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
220	81.600	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00

221	81.400	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
222	81.200	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
223	81.000	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
224	80.800	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
225	80.600	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
226	80.400	27.70	0.00	0.00	0.00	6.11	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
227	80.200	27.70	0.00	0.00	0.00	6.12	1.69	0.00	1.69	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
228	80.000	27.70	0.00	0.00	0.00	6.12	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
229	79.800	27.70	0.00	0.00	0.00	6.12	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
230	79.600	27.70	0.00	0.00	0.00	6.12	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
231	79.400	27.70	0.00	0.00	0.00	6.07	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
232	79.200	27.70	0.00	0.00	0.00	6.08	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
233	79.000	27.70	0.00	0.00	0.00	6.09	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
234	78.800	27.70	0.00	0.00	0.00	6.10	1.68	0.00	1.68	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
235	78.601	27.70	0.00	0.00	0.00	6.10	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
236	78.401	27.70	0.00	0.00	0.00	6.11	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
237	78.201	27.70	0.00	0.00	0.00	6.11	1.68	0.00	1.68	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
238	78.001	27.70	0.00	0.00	0.00	6.12	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
239	77.801	27.70	0.00	0.00	0.00	6.12	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
240	77.601	27.70	0.00	0.00	0.00	6.13	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
241	77.401	27.70	0.00	0.00	0.00	6.13	1.67	0.00	1.67	0.00	0.88	0.12	0.00	1.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 3 Black Lake Bayou Summer Projection

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
242	UPR RCH	0.28000	27.70	0.00	0.00	0.00	6.13	1.67	0.00	1.67	0.00	0.88	0.12	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00047	27.70	0.00	0.00	0.00	5.30	1.32	0.00		1.32	0.13	0.05	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
242	77.40	77.20	0.28047	40.3	0.02527	0.09	0.94	11.85	2219.78	2369.49	11.10	0.00	0.000	0.000	0.025
243	77.20	77.00	0.28094	40.2	0.02529	0.09	0.94	11.85	2221.90	2369.97	11.11	0.00	0.000	0.000	0.025
244	77.00	76.80	0.28141	40.2	0.02531	0.09	0.94	11.85	2224.01	2370.44	11.12	0.00	0.000	0.000	0.025
245	76.80	76.60	0.28187	40.1	0.02532	0.09	0.94	11.85	2226.12	2370.91	11.13	0.00	0.000	0.000	0.025
246	76.60	76.40	0.28234	40.0	0.02534	0.09	0.94	11.86	2228.23	2371.39	11.14	0.00	0.000	0.000	0.025
247	76.40	76.20	0.28281	40.0	0.02536	0.09	0.94	11.86	2230.34	2371.86	11.15	0.00	0.000	0.000	0.025
248	76.20	76.00	0.28328	39.9	0.02538	0.09	0.94	11.86	2232.45	2372.33	11.16	0.00	0.000	0.000	0.025
249	76.00	75.80	0.28375	39.8	0.02540	0.09	0.94	11.86	2234.55	2372.80	11.17	0.00	0.000	0.000	0.025
250	75.80	75.60	0.28422	39.8	0.02541	0.09	0.94	11.87	2236.66	2373.27	11.18	0.00	0.000	0.000	0.025

251	75.60	75.40	0.28469	39.7	0.02543	0.09	0.94	11.87	2238.76	2373.74	11.19	0.00	0.000	0.000	0.025
252	75.40	75.20	0.28516	39.6	0.02545	0.09	0.94	11.87	2240.86	2374.21	11.20	0.00	0.000	0.000	0.025
253	75.20	75.00	0.28563	39.6	0.02547	0.09	0.94	11.87	2242.96	2374.68	11.21	0.00	0.000	0.000	0.025
254	75.00	74.80	0.28609	39.5	0.02549	0.09	0.95	11.88	2245.06	2375.15	11.23	0.00	0.000	0.000	0.025
255	74.80	74.60	0.28656	39.4	0.02550	0.09	0.95	11.88	2247.15	2375.61	11.24	0.00	0.000	0.000	0.026
256	74.60	74.40	0.28703	39.4	0.02552	0.09	0.95	11.88	2249.25	2376.08	11.25	0.00	0.000	0.000	0.026
257	74.40	74.20	0.28750	39.3	0.02554	0.09	0.95	11.88	2251.34	2376.54	11.26	0.00	0.000	0.000	0.026
258	74.20	74.00	0.28797	39.2	0.02556	0.09	0.95	11.89	2253.43	2377.01	11.27	0.00	0.000	0.000	0.026
259	74.00	73.80	0.28844	39.2	0.02558	0.09	0.95	11.89	2255.52	2377.47	11.28	0.00	0.000	0.000	0.026
260	73.80	73.60	0.28891	39.1	0.02559	0.09	0.95	11.89	2257.61	2377.94	11.29	0.00	0.000	0.000	0.026
261	73.60	73.40	0.28938	39.0	0.02561	0.09	0.95	11.89	2259.70	2378.40	11.30	0.00	0.000	0.000	0.026
262	73.40	73.20	0.28985	39.0	0.02563	0.09	0.95	11.89	2261.79	2378.86	11.31	0.00	0.000	0.000	0.026
263	73.20	73.00	0.29031	38.9	0.02565	0.09	0.95	11.90	2263.87	2379.32	11.32	0.00	0.000	0.000	0.026
264	73.00	72.80	0.29078	38.9	0.02567	0.09	0.95	11.90	2265.96	2379.78	11.33	0.00	0.000	0.000	0.026
265	72.80	72.60	0.29125	38.8	0.02568	0.09	0.95	11.90	2268.04	2380.24	11.34	0.00	0.000	0.000	0.026
266	72.60	72.40	0.29172	38.7	0.02570	0.09	0.95	11.90	2270.12	2380.70	11.35	0.00	0.000	0.000	0.026
267	72.40	72.20	0.29219	38.7	0.02572	0.09	0.95	11.91	2272.20	2381.16	11.36	0.00	0.000	0.000	0.026
268	72.20	72.00	0.29266	38.6	0.02574	0.09	0.95	11.91	2274.28	2381.62	11.37	0.00	0.000	0.000	0.026
269	72.00	71.80	0.29313	38.5	0.02575	0.09	0.96	11.91	2276.35	2382.08	11.38	0.00	0.000	0.000	0.026
270	71.80	71.60	0.29360	38.5	0.02577	0.09	0.96	11.91	2278.43	2382.53	11.39	0.00	0.000	0.000	0.026
271	71.60	71.40	0.29407	38.4	0.02579	0.09	0.96	11.91	2280.50	2382.99	11.40	0.00	0.000	0.000	0.026
272	71.40	71.20	0.29453	38.4	0.02581	0.09	0.96	11.92	2282.57	2383.45	11.41	0.00	0.000	0.000	0.026
273	71.20	71.00	0.29500	38.3	0.02582	0.09	0.96	11.92	2284.64	2383.90	11.42	0.00	0.000	0.000	0.026
274	71.00	70.80	0.29547	38.2	0.02584	0.09	0.96	11.92	2286.71	2384.36	11.43	0.00	0.000	0.000	0.026
275	70.80	70.60	0.29594	38.2	0.02586	0.09	0.96	11.92	2288.78	2384.81	11.44	0.00	0.000	0.000	0.026
276	70.60	70.40	0.29641	38.1	0.02588	0.09	0.96	11.93	2290.85	2385.26	11.45	0.00	0.000	0.000	0.026
277	70.40	70.20	0.29688	38.1	0.02590	0.09	0.96	11.93	2292.91	2385.71	11.46	0.00	0.000	0.000	0.026
278	70.20	70.00	0.29735	38.0	0.02591	0.09	0.96	11.93	2294.97	2386.17	11.47	0.00	0.000	0.000	0.026
279	70.00	69.80	0.29782	37.9	0.02593	0.09	0.96	11.93	2297.04	2386.62	11.49	0.00	0.000	0.000	0.026
280	69.80	69.60	0.29829	37.9	0.02595	0.09	0.96	11.94	2299.10	2387.07	11.50	0.00	0.000	0.000	0.026
281	69.60	69.40	0.29875	37.8	0.02597	0.09	0.96	11.94	2301.16	2387.52	11.51	0.00	0.000	0.000	0.026
282	69.40	69.20	0.29922	37.8	0.02598	0.09	0.96	11.94	2303.21	2387.97	11.52	0.00	0.000	0.000	0.026
283	69.20	69.00	0.29969	37.7	0.02600	0.09	0.97	11.94	2305.27	2388.42	11.53	0.00	0.000	0.000	0.026
284	69.00	68.80	0.30016	37.6	0.02602	0.09	0.97	11.94	2307.33	2388.86	11.54	0.00	0.000	0.000	0.026
285	68.80	68.60	0.30063	37.6	0.02604	0.09	0.97	11.95	2309.38	2389.31	11.55	0.00	0.000	0.000	0.026
286	68.60	68.40	0.30110	37.5	0.02605	0.09	0.97	11.95	2311.43	2389.76	11.56	0.00	0.000	0.000	0.026
287	68.40	68.20	0.30157	37.5	0.02607	0.09	0.97	11.95	2313.48	2390.21	11.57	0.00	0.000	0.000	0.026
288	68.20	68.00	0.30204	37.4	0.02609	0.09	0.97	11.95	2315.53	2390.65	11.58	0.00	0.000	0.000	0.026
289	68.00	67.80	0.30251	37.4	0.02611	0.09	0.97	11.96	2317.58	2391.10	11.59	0.00	0.000	0.000	0.026
290	67.80	67.60	0.30297	37.3	0.02612	0.09	0.97	11.96	2319.63	2391.54	11.60	0.00	0.000	0.000	0.026
291	67.60	67.40	0.30344	37.2	0.02614	0.09	0.97	11.96	2321.67	2391.98	11.61	0.00	0.000	0.000	0.026
292	67.40	67.20	0.30391	37.2	0.02616	0.09	0.97	11.96	2323.72	2392.43	11.62	0.00	0.000	0.000	0.026
293	67.20	67.00	0.30438	37.1	0.02617	0.09	0.97	11.96	2325.76	2392.87	11.63	0.00	0.000	0.000	0.026
294	67.00	66.80	0.30485	37.1	0.02619	0.09	0.97	11.97	2327.80	2393.31	11.64	0.00	0.000	0.000	0.026
295	66.80	66.60	0.30532	37.0	0.02621	0.09	0.97	11.97	2329.84	2393.75	11.65	0.00	0.000	0.000	0.026
296	66.60	66.40	0.30579	37.0	0.02623	0.09	0.97	11.97	2331.88	2394.19	11.66	0.00	0.000	0.000	0.026
297	66.40	66.20	0.30626	36.9	0.02624	0.09	0.97	11.97	2333.92	2394.63	11.67	0.00	0.000	0.000	0.026
298	66.20	66.00	0.30672	36.8	0.02626	0.09	0.98	11.98	2335.95	2395.07	11.68	0.00	0.000	0.000	0.026
299	66.00	65.80	0.30719	36.8	0.02628	0.09	0.98	11.98	2337.99	2395.51	11.69	0.00	0.000	0.000	0.026
300	65.80	65.60	0.30766	36.7	0.02630	0.09	0.98	11.98	2340.02	2395.95	11.70	0.00	0.000	0.000	0.026
301	65.60	65.40	0.30813	36.7	0.02631	0.09	0.98	11.98	2342.05	2396.39	11.71	0.00	0.000	0.000	0.026

302	65.40	65.20	0.30860	36.6	0.02633	0.09	0.98	11.98	2344.08	2396.83	11.72	0.00	0.000	0.000	0.026
303	65.20	65.00	0.30907	36.6	0.02635	0.09	0.98	11.99	2346.11	2397.26	11.73	0.00	0.000	0.000	0.026
304	65.00	64.80	0.30954	36.5	0.02636	0.09	0.98	11.99	2348.14	2397.70	11.74	0.00	0.000	0.000	0.026
305	64.80	64.60	0.31001	36.5	0.02638	0.09	0.98	11.99	2350.17	2398.14	11.75	0.00	0.000	0.000	0.026
306	64.60	64.40	0.31048	36.4	0.02640	0.09	0.98	11.99	2352.19	2398.57	11.76	0.00	0.000	0.000	0.026
307	64.40	64.20	0.31094	36.3	0.02642	0.09	0.98	12.00	2354.22	2399.00	11.77	0.00	0.000	0.000	0.026
308	64.20	64.00	0.31141	36.3	0.02643	0.09	0.98	12.00	2356.24	2399.44	11.78	0.00	0.000	0.000	0.026
309	64.00	63.80	0.31188	36.2	0.02645	0.09	0.98	12.00	2358.26	2399.87	11.79	0.00	0.000	0.000	0.026
310	63.80	63.60	0.31235	36.2	0.02647	0.09	0.98	12.00	2360.28	2400.30	11.80	0.00	0.000	0.000	0.026
311	63.60	63.40	0.31282	36.1	0.02648	0.09	0.98	12.00	2362.30	2400.74	11.81	0.00	0.000	0.000	0.026
312	63.40	63.20	0.31329	36.1	0.02650	0.09	0.98	12.01	2364.32	2401.17	11.82	0.00	0.000	0.000	0.027
313	63.20	63.00	0.31376	36.0	0.02652	0.09	0.99	12.01	2366.34	2401.60	11.83	0.00	0.000	0.000	0.027
314	63.00	62.80	0.31423	36.0	0.02654	0.09	0.99	12.01	2368.35	2402.03	11.84	0.00	0.000	0.000	0.027
315	62.80	62.60	0.31470	35.9	0.02655	0.09	0.99	12.01	2370.36	2402.46	11.85	0.00	0.000	0.000	0.027
316	62.60	62.40	0.31516	35.9	0.02657	0.09	0.99	12.01	2372.38	2402.89	11.86	0.00	0.000	0.000	0.027
317	62.40	62.20	0.31563	35.8	0.02659	0.09	0.99	12.02	2374.39	2403.32	11.87	0.00	0.000	0.000	0.027
318	62.20	62.00	0.31610	35.7	0.02660	0.09	0.99	12.02	2376.40	2403.75	11.88	0.00	0.000	0.000	0.027
319	62.00	61.80	0.31657	35.7	0.02662	0.09	0.99	12.02	2378.41	2404.17	11.89	0.00	0.000	0.000	0.027
320	61.80	61.60	0.31704	35.6	0.02664	0.09	0.99	12.02	2380.41	2404.60	11.90	0.00	0.000	0.000	0.027
321	61.60	61.40	0.31751	35.6	0.02665	0.09	0.99	12.03	2382.42	2405.03	11.91	0.00	0.000	0.000	0.027
322	61.40	61.20	0.31798	35.5	0.02667	0.09	0.99	12.03	2384.42	2405.45	11.92	0.00	0.000	0.000	0.027
323	61.20	61.00	0.31845	35.5	0.02669	0.09	0.99	12.03	2386.43	2405.88	11.93	0.00	0.000	0.000	0.027
324	61.00	60.80	0.31892	35.4	0.02671	0.09	0.99	12.03	2388.43	2406.30	11.94	0.00	0.000	0.000	0.027
325	60.80	60.60	0.31938	35.4	0.02672	0.09	0.99	12.03	2390.43	2406.73	11.95	0.00	0.000	0.000	0.027
326	60.60	60.40	0.31985	35.3	0.02674	0.09	0.99	12.04	2392.43	2407.15	11.96	0.00	0.000	0.000	0.027
327	60.40	60.20	0.32032	35.3	0.02676	0.09	0.99	12.04	2394.43	2407.57	11.97	0.00	0.000	0.000	0.027
328	60.20	60.00	0.32079	35.2	0.02677	0.09	1.00	12.04	2396.43	2408.00	11.98	0.00	0.000	0.000	0.027
329	60.00	59.80	0.32126	35.2	0.02679	0.09	1.00	12.04	2398.42	2408.42	11.99	0.00	0.000	0.000	0.027
330	59.80	59.60	0.32173	35.1	0.02681	0.09	1.00	12.04	2400.42	2408.84	12.00	0.00	0.000	0.000	0.027
331	59.60	59.40	0.32220	35.1	0.02682	0.09	1.00	12.05	2402.41	2409.26	12.01	0.00	0.000	0.000	0.027
332	59.40	59.20	0.32267	35.0	0.02684	0.09	1.00	12.05	2404.40	2409.68	12.02	0.00	0.000	0.000	0.027
333	59.20	59.00	0.32314	35.0	0.02686	0.09	1.00	12.05	2406.39	2410.10	12.03	0.00	0.000	0.000	0.027
334	59.00	58.80	0.32360	34.9	0.02687	0.09	1.00	12.05	2408.38	2410.52	12.04	0.00	0.000	0.000	0.027
335	58.80	58.60	0.32407	34.9	0.02689	0.09	1.00	12.05	2410.37	2410.94	12.05	0.00	0.000	0.000	0.027
336	58.60	58.40	0.32454	34.8	0.02691	0.09	1.00	12.06	2412.36	2411.36	12.06	0.00	0.000	0.000	0.027
337	58.40	58.20	0.32501	34.8	0.02692	0.09	1.00	12.06	2414.34	2411.78	12.07	0.00	0.000	0.000	0.027
338	58.20	58.00	0.32548	34.7	0.02694	0.09	1.00	12.06	2416.33	2412.19	12.08	0.00	0.000	0.000	0.027
339	58.00	57.80	0.32595	34.7	0.02696	0.09	1.00	12.06	2418.31	2412.61	12.09	0.00	0.000	0.000	0.027
340	57.80	57.60	0.32642	34.6	0.02697	0.09	1.00	12.07	2420.30	2413.03	12.10	0.00	0.000	0.000	0.027
341	57.60	57.40	0.32689	34.6	0.02699	0.09	1.00	12.07	2422.28	2413.44	12.11	0.00	0.000	0.000	0.027
342	57.40	57.20	0.32736	34.5	0.02701	0.09	1.00	12.07	2424.26	2413.86	12.12	0.00	0.000	0.000	0.027
343	57.20	57.00	0.32782	34.5	0.02702	0.09	1.00	12.07	2426.23	2414.27	12.13	0.00	0.000	0.000	0.027
344	57.00	56.80	0.32829	34.4	0.02704	0.09	1.01	12.07	2428.21	2414.69	12.14	0.00	0.000	0.000	0.027
345	56.80	56.60	0.32876	34.4	0.02706	0.09	1.01	12.08	2430.19	2415.10	12.15	0.00	0.000	0.000	0.027
346	56.60	56.40	0.32923	34.3	0.02707	0.09	1.01	12.08	2432.16	2415.51	12.16	0.00	0.000	0.000	0.027
347	56.40	56.20	0.32970	34.3	0.02709	0.09	1.01	12.08	2434.14	2415.92	12.17	0.00	0.000	0.000	0.027
348	56.20	56.00	0.33017	34.2	0.02711	0.09	1.01	12.08	2436.11	2416.34	12.18	0.00	0.000	0.000	0.027
349	56.00	55.80	0.33064	34.2	0.02712	0.09	1.01	12.08	2438.08	2416.75	12.19	0.00	0.000	0.000	0.027
350	55.80	55.60	0.33111	34.1	0.02714	0.09	1.01	12.09	2440.05	2417.16	12.20	0.00	0.000	0.000	0.027
351	55.60	55.40	0.33158	34.1	0.02716	0.09	1.01	12.09	2442.02	2417.57	12.21	0.00	0.000	0.000	0.027
352	55.40	55.20	0.33204	34.0	0.02717	0.09	1.01	12.09	2443.99	2417.98	12.22	0.00	0.000	0.000	0.027

353	55.20	55.00	0.33251	34.0	0.02719	0.09	1.01	12.09	2445.95	2418.39	12.23	0.00	0.000	0.000	0.027
354	55.00	54.80	0.33298	33.9	0.02721	0.09	1.01	12.09	2447.92	2418.80	12.24	0.00	0.000	0.000	0.027
355	54.80	54.60	0.33345	33.9	0.02722	0.09	1.01	12.10	2449.88	2419.21	12.25	0.00	0.000	0.000	0.027
356	54.60	54.40	0.33392	33.8	0.02724	0.08	1.01	12.10	2451.85	2419.61	12.26	0.00	0.000	0.000	0.027
357	54.40	54.20	0.33439	33.8	0.02725	0.08	1.01	12.10	2453.81	2420.02	12.27	0.00	0.000	0.000	0.027
358	54.20	54.00	0.33486	33.7	0.02727	0.08	1.01	12.10	2455.77	2420.43	12.28	0.00	0.000	0.000	0.027
359	54.00	53.80	0.33533	33.7	0.02729	0.08	1.02	12.10	2457.73	2420.84	12.29	0.00	0.000	0.000	0.027
360	53.80	53.60	0.33580	33.7	0.02730	0.08	1.02	12.11	2459.69	2421.24	12.30	0.00	0.000	0.000	0.027
361	53.60	53.40	0.33626	33.6	0.02732	0.08	1.02	12.11	2461.64	2421.65	12.31	0.00	0.000	0.000	0.027
362	53.40	53.20	0.33673	33.6	0.02734	0.08	1.02	12.11	2463.60	2422.05	12.32	0.00	0.000	0.000	0.027
363	53.20	53.00	0.33720	33.5	0.02735	0.08	1.02	12.11	2465.55	2422.46	12.33	0.00	0.000	0.000	0.027
364	53.00	52.80	0.33767	33.5	0.02737	0.08	1.02	12.11	2467.51	2422.86	12.34	0.00	0.000	0.000	0.027
365	52.80	52.60	0.33814	33.4	0.02739	0.08	1.02	12.12	2469.46	2423.26	12.35	0.00	0.000	0.000	0.027
366	52.60	52.40	0.33861	33.4	0.02740	0.08	1.02	12.12	2471.41	2423.67	12.36	0.00	0.000	0.000	0.027
367	52.40	52.20	0.33908	33.3	0.02742	0.08	1.02	12.12	2473.36	2424.07	12.37	0.00	0.000	0.000	0.027
368	52.20	52.00	0.33955	33.3	0.02743	0.08	1.02	12.12	2475.31	2424.47	12.38	0.00	0.000	0.000	0.027
369	52.00	51.80	0.34002	33.2	0.02745	0.08	1.02	12.12	2477.26	2424.87	12.39	0.00	0.000	0.000	0.027
370	51.80	51.60	0.34048	33.2	0.02747	0.08	1.02	12.13	2479.21	2425.27	12.40	0.00	0.000	0.000	0.027
371	51.60	51.40	0.34095	33.1	0.02748	0.08	1.02	12.13	2481.15	2425.67	12.41	0.00	0.000	0.000	0.027
372	51.40	51.20	0.34142	33.1	0.02750	0.08	1.02	12.13	2483.10	2426.07	12.42	0.00	0.000	0.000	0.027
373	51.20	51.00	0.34189	33.1	0.02752	0.08	1.02	12.13	2485.04	2426.47	12.43	0.00	0.000	0.000	0.028
374	51.00	50.80	0.34236	33.0	0.02753	0.08	1.02	12.13	2486.98	2426.87	12.43	0.00	0.000	0.000	0.028
375	50.80	50.60	0.34283	33.0	0.02755	0.08	1.03	12.14	2488.92	2427.27	12.44	0.00	0.000	0.000	0.028
376	50.60	50.40	0.34330	32.9	0.02756	0.08	1.03	12.14	2490.86	2427.67	12.45	0.00	0.000	0.000	0.028

TOT			11.83		318231.22	323923.88	
AVG		0.0264		0.98	12.00		11.79
CUM			34.23				

********** 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 *	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD 1/da	FULL SOD 1/da	CORR SOD 1/da	ORGN DECAY *	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
242	77.200	7.87	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
243	77.000	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
244	76.800	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
245	76.600	7.86	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
246	76.400	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.18	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	
247	76.200	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
248	76.000	7.85	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
249	75.800	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
250	75.600	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
251	75.400	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
252	75.200	7.84	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
253	75.000	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
254	74.800	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
255	74.600	7.83	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
256	74.400	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	

257	74.200	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
258	74.000	7.82	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
259	73.800	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.18	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
260	73.600	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
261	73.400	7.81	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
262	73.200	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
263	73.000	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
264	72.800	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
265	72.600	7.80	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
266	72.400	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
267	72.200	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
268	72.000	7.79	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
269	71.800	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
270	71.600	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
271	71.400	7.78	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
272	71.200	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
273	71.000	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
274	70.800	7.77	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
275	70.600	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
276	70.400	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
277	70.200	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.38	3.38	3.38	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
278	70.000	7.76	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
279	69.800	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.39	3.39	3.39	0.02	0.00	0.18	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
280	69.600	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
281	69.400	7.75	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.40	3.40	3.40	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
282	69.200	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
283	69.000	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
284	68.800	7.74	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
285	68.600	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
286	68.400	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.42	3.42	3.42	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
287	68.200	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
288	68.000	7.73	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.43	3.43	3.43	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
289	67.800	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
290	67.600	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.44	3.44	3.44	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
291	67.400	7.72	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
292	67.200	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
293	67.000	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
294	66.800	7.71	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
295	66.600	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
296	66.400	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
297	66.200	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
298	66.000	7.70	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.02	0.00	0.19	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
299	65.800	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
300	65.600	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
301	65.400	7.69	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
302	65.200	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.50	3.50	3.50	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
303	65.000	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.51	3.51	3.51	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
304	64.800	7.68	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.51	3.51	3.51	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
305	64.600	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.52	3.52	3.52	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
306	64.400	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.52	3.52	3.52	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
307	64.200	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00

308	64.000	7.67	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
309	63.800	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.54	3.54	3.54	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
310	63.600	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.54	3.54	3.54	0.02	0.00	0.19	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
311	63.400	7.66	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	3.55	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
312	63.200	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.55	3.55	3.55	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
313	63.000	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.56	3.56	3.56	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
314	62.800	7.65	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.56	3.56	3.56	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
315	62.600	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.57	3.57	3.57	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
316	62.400	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.57	3.57	3.57	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
317	62.200	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.58	3.58	3.58	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
318	62.000	7.64	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.58	3.58	3.58	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
319	61.800	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.59	3.59	3.59	0.02	0.00	0.19	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
320	61.600	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.59	3.59	3.59	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
321	61.400	7.63	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
322	61.200	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.02	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
323	61.000	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.61	3.61	3.61	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
324	60.800	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.61	3.61	3.61	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
325	60.600	7.62	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
326	60.400	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
327	60.200	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.63	3.63	3.63	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
328	60.000	7.61	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.63	3.63	3.63	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
329	59.800	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
330	59.600	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
331	59.400	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
332	59.200	7.60	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
333	59.000	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.66	3.66	3.66	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
334	58.800	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.66	3.66	3.66	0.02	0.00	0.20	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
335	58.600	7.59	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.67	3.67	3.67	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
336	58.400	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.67	3.67	3.67	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
337	58.200	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.68	3.68	3.68	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
338	58.000	7.58	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.68	3.68	3.68	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
339	57.800	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.69	3.69	3.69	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
340	57.600	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.69	3.69	3.69	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
341	57.400	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.70	3.70	3.70	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
342	57.200	7.57	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.70	3.70	3.70	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
343	57.000	7.56	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
344	56.800	7.56	1.26	0.09	0.00	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
345	56.600	7.56	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.72	3.72	3.72	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
346	56.400	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.72	3.72	3.72	0.02	0.00	0.20	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
347	56.200	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.73	3.73	3.73	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
348	56.000	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.73	3.73	3.73	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
349	55.800	7.55	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.74	3.74	3.74	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
350	55.600	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.75	3.75	3.75	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
351	55.400	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.75	3.75	3.75	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
352	55.200	7.54	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.76	3.76	3.76	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
353	55.000	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.76	3.76	3.76	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
354	54.800	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
355	54.600	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
356	54.400	7.53	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.02	0.00	0.20	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
357	54.200	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.02	0.00	0.21	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
358	54.000	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.02	0.00	0.21	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

359	53.800	7.52	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
360	53.600	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
361	53.400	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
362	53.200	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
363	53.000	7.51	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
364	52.800	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
365	52.600	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
366	52.400	7.50	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.83	3.83	3.83	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
367	52.200	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
368	52.000	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
369	51.800	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
370	51.600	7.49	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.02	0.00	0.21	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
371	51.400	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
372	51.200	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
373	51.000	7.48	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
374	50.800	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
375	50.600	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
376	50.400	7.47	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.06	0.06	0.00	0.00	0.00	0.00	0.00	1.98			0.02	0.00	0.11	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
242	77.200	27.72	0.00	0.00	0.00	6.07	1.66	0.00	1.66	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
243	77.000	27.74	0.00	0.00	0.00	6.01	1.66	0.00	1.66	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
244	76.800	27.77	0.00	0.00	0.00	5.96	1.65	0.00	1.65	0.00	0.89	0.12	0.00	1.01	0.00	20.00	0.00	0.	0.00
245	76.600	27.79	0.00	0.00	0.00	5.92	1.64	0.00	1.64	0.00	0.89	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
246	76.400	27.81	0.00	0.00	0.00	5.88	1.63	0.00	1.63	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
247	76.200	27.83	0.00	0.00	0.00	5.84	1.63	0.00	1.63	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
248	76.000	27.86	0.00	0.00	0.00	5.81	1.62	0.00	1.62	0.00	0.90	0.12	0.00	1.02	0.00	20.00	0.00	0.	0.00
249	75.800	27.88	0.00	0.00	0.00	5.78	1.61	0.00	1.61	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
250	75.600	27.90	0.00	0.00	0.00	5.75	1.60	0.00	1.60	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
251	75.400	27.92	0.00	0.00	0.00	5.72	1.60	0.00	1.60	0.00	0.91	0.12	0.00	1.03	0.00	20.00	0.00	0.	0.00
252	75.200	27.94	0.00	0.00	0.00	5.70	1.59	0.00	1.59	0.00	0.91	0.12	0.00	1.04	0.00	20.00	0.00	0.	0.00
253	75.000	27.97	0.00	0.00	0.00	5.68	1.58	0.00	1.58	0.00	0.92	0.12	0.00	1.04	0.00	20.00	0.00	0.	0.00
254	74.800	27.99	0.00	0.00	0.00	5.66	1.58	0.00	1.58	0.00	0.92	0.12	0.00	1.04	0.00	20.00	0.00	0.	0.00
255	74.600	28.01	0.00	0.00	0.00	5.64	1.57	0.00	1.57	0.00	0.92	0.12	0.00	1.04	0.00	20.00	0.00	0.	0.00
256	74.400	28.03	0.00	0.00	0.00	5.63	1.56	0.00	1.56	0.00	0.93	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
257	74.200	28.06	0.00	0.00	0.00	5.61	1.56	0.00	1.56	0.00	0.93	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
258	74.000	28.08	0.00	0.00	0.00	5.60	1.55	0.00	1.55	0.00	0.93	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
259	73.800	28.10	0.00	0.00	0.00	5.58	1.54	0.00	1.54	0.00	0.93	0.12	0.00	1.05	0.00	20.00	0.00	0.	0.00
260	73.600	28.12	0.00	0.00	0.00	5.57	1.54	0.00	1.54	0.00	0.94	0.12	0.00	1.06	0.00	20.00	0.00	0.	0.00
261	73.400	28.14	0.00	0.00	0.00	5.56	1.53	0.00	1.53	0.00	0.94	0.12	0.00	1.06	0.00	20.00	0.00	0.	0.00
262	73.200	28.17	0.00	0.00	0.00	5.55	1.52	0.00	1.52	0.00	0.94	0.12	0.00	1.06	0.00	20.00	0.00	0.	0.00
263	73.000	28.19	0.00	0.00	0.00	5.54	1.52	0.00	1.52	0.00	0.94	0.12	0.00	1.07	0.00	20.00	0.00	0.	0.00

264	72.800	28.21	0.00	0.00	0.00	5.53	1.51	0.00	1.51	0.00	0.95	0.12	0.00	1.07	0.00	20.00	0.00	0.	0.00
265	72.600	28.23	0.00	0.00	0.00	5.52	1.50	0.00	1.50	0.00	0.95	0.12	0.00	1.07	0.00	20.00	0.00	0.	0.00
266	72.400	28.26	0.00	0.00	0.00	5.52	1.50	0.00	1.50	0.00	0.95	0.12	0.00	1.07	0.00	20.00	0.00	0.	0.00
267	72.200	28.28	0.00	0.00	0.00	5.51	1.49	0.00	1.49	0.00	0.95	0.12	0.00	1.08	0.00	20.00	0.00	0.	0.00
268	72.000	28.30	0.00	0.00	0.00	5.50	1.49	0.00	1.49	0.00	0.96	0.12	0.00	1.08	0.00	20.00	0.00	0.	0.00
269	71.800	28.32	0.00	0.00	0.00	5.49	1.48	0.00	1.48	0.00	0.96	0.12	0.00	1.08	0.00	20.00	0.00	0.	0.00
270	71.600	28.34	0.00	0.00	0.00	5.49	1.47	0.00	1.47	0.00	0.96	0.12	0.00	1.08	0.00	20.00	0.00	0.	0.00
271	71.400	28.37	0.00	0.00	0.00	5.48	1.47	0.00	1.47	0.00	0.96	0.12	0.00	1.09	0.00	20.00	0.00	0.	0.00
272	71.200	28.39	0.00	0.00	0.00	5.47	1.46	0.00	1.46	0.00	0.97	0.12	0.00	1.09	0.00	20.00	0.00	0.	0.00
273	71.000	28.41	0.00	0.00	0.00	5.47	1.46	0.00	1.46	0.00	0.97	0.12	0.00	1.09	0.00	20.00	0.00	0.	0.00
274	70.800	28.43	0.00	0.00	0.00	5.46	1.45	0.00	1.45	0.00	0.97	0.12	0.00	1.09	0.00	20.00	0.00	0.	0.00
275	70.600	28.46	0.00	0.00	0.00	5.46	1.44	0.00	1.44	0.00	0.97	0.12	0.00	1.10	0.00	20.00	0.00	0.	0.00
276	70.400	28.48	0.00	0.00	0.00	5.45	1.44	0.00	1.44	0.00	0.98	0.12	0.00	1.10	0.00	20.00	0.00	0.	0.00
277	70.200	28.50	0.00	0.00	0.00	5.45	1.43	0.00	1.43	0.00	0.98	0.12	0.00	1.10	0.00	20.00	0.00	0.	0.00
278	70.000	28.52	0.00	0.00	0.00	5.44	1.43	0.00	1.43	0.00	0.98	0.12	0.00	1.10	0.00	20.00	0.00	0.	0.00
279	69.800	28.54	0.00	0.00	0.00	5.43	1.42	0.00	1.42	0.00	0.98	0.12	0.00	1.11	0.00	20.00	0.00	0.	0.00
280	69.600	28.57	0.00	0.00	0.00	5.43	1.41	0.00	1.41	0.00	0.99	0.12	0.00	1.11	0.00	20.00	0.00	0.	0.00
281	69.400	28.59	0.00	0.00	0.00	5.42	1.41	0.00	1.41	0.00	0.99	0.12	0.00	1.11	0.00	20.00	0.00	0.	0.00
282	69.200	28.61	0.00	0.00	0.00	5.42	1.40	0.00	1.40	0.00	0.99	0.12	0.00	1.11	0.00	20.00	0.00	0.	0.00
283	69.000	28.63	0.00	0.00	0.00	5.41	1.40	0.00	1.40	0.00	0.99	0.12	0.00	1.11	0.00	20.00	0.00	0.	0.00
284	68.800	28.66	0.00	0.00	0.00	5.41	1.39	0.00	1.39	0.00	0.99	0.12	0.00	1.12	0.00	20.00	0.00	0.	0.00
285	68.600	28.68	0.00	0.00	0.00	5.41	1.39	0.00	1.39	0.00	1.00	0.12	0.00	1.12	0.00	20.00	0.00	0.	0.00
286	68.400	28.70	0.00	0.00	0.00	5.40	1.38	0.00	1.38	0.00	1.00	0.12	0.00	1.12	0.00	20.00	0.00	0.	0.00
287	68.200	28.72	0.00	0.00	0.00	5.40	1.38	0.00	1.38	0.00	1.00	0.12	0.00	1.12	0.00	20.00	0.00	0.	0.00
288	68.000	28.74	0.00	0.00	0.00	5.39	1.37	0.00	1.37	0.00	1.00	0.12	0.00	1.13	0.00	20.00	0.00	0.	0.00
289	67.800	28.77	0.00	0.00	0.00	5.39	1.37	0.00	1.37	0.00	1.01	0.12	0.00	1.13	0.00	20.00	0.00	0.	0.00
290	67.600	28.79	0.00	0.00	0.00	5.38	1.36	0.00	1.36	0.00	1.01	0.12	0.00	1.13	0.00	20.00	0.00	0.	0.00
291	67.400	28.81	0.00	0.00	0.00	5.38	1.35	0.00	1.35	0.00	1.01	0.12	0.00	1.13	0.00	20.00	0.00	0.	0.00
292	67.200	28.83	0.00	0.00	0.00	5.37	1.35	0.00	1.35	0.00	1.01	0.12	0.00	1.14	0.00	20.00	0.00	0.	0.00
293	67.000	28.86	0.00	0.00	0.00	5.37	1.34	0.00	1.34	0.00	1.01	0.12	0.00	1.14	0.00	20.00	0.00	0.	0.00
294	66.800	28.88	0.00	0.00	0.00	5.36	1.34	0.00	1.34	0.00	1.02	0.12	0.00	1.14	0.00	20.00	0.00	0.	0.00
295	66.600	28.90	0.00	0.00	0.00	5.36	1.33	0.00	1.33	0.00	1.02	0.12	0.00	1.14	0.00	20.00	0.00	0.	0.00
296	66.400	28.92	0.00	0.00	0.00	5.35	1.33	0.00	1.33	0.00	1.02	0.12	0.00	1.14	0.00	20.00	0.00	0.	0.00
297	66.200	28.94	0.00	0.00	0.00	5.35	1.32	0.00	1.32	0.00	1.02	0.12	0.00	1.15	0.00	20.00	0.00	0.	0.00
298	66.000	28.97	0.00	0.00	0.00	5.35	1.32	0.00	1.32	0.00	1.02	0.12	0.00	1.15	0.00	20.00	0.00	0.	0.00
299	65.800	28.99	0.00	0.00	0.00	5.34	1.31	0.00	1.31	0.00	1.03	0.12	0.00	1.15	0.00	20.00	0.00	0.	0.00
300	65.600	29.01	0.00	0.00	0.00	5.34	1.31	0.00	1.31	0.00	1.03	0.12	0.00	1.15	0.00	20.00	0.00	0.	0.00
301	65.400	29.03	0.00	0.00	0.00	5.33	1.30	0.00	1.30	0.00	1.03	0.12	0.00	1.16	0.00	20.00	0.00	0.	0.00
302	65.200	29.06	0.00	0.00	0.00	5.33	1.30	0.00	1.30	0.00	1.03	0.12	0.00	1.16	0.00	20.00	0.00	0.	0.00
303	65.000	29.08	0.00	0.00	0.00	5.32	1.29	0.00	1.29	0.00	1.03	0.12	0.00	1.16	0.00	20.00	0.00	0.	0.00
304	64.800	29.10	0.00	0.00	0.00	5.32	1.29	0.00	1.29	0.00	1.04	0.12	0.00	1.16	0.00	20.00	0.00	0.	0.00
305	64.600	29.12	0.00	0.00	0.00	5.32	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.16	0.00	20.00	0.00	0.	0.00
306	64.400	29.14	0.00	0.00	0.00	5.31	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.17	0.00	20.00	0.00	0.	0.00
307	64.200	29.17	0.00	0.00	0.00	5.31	1.28	0.00	1.28	0.00	1.04	0.12	0.00	1.17	0.00	20.00	0.00	0.	0.00
308	64.000	29.19	0.00	0.00	0.00	5.30	1.27	0.00	1.27	0.00	1.04	0.12	0.00	1.17	0.00	20.00	0.00	0.	0.00
309	63.800	29.21	0.00	0.00	0.00	5.30	1.27	0.00	1.27	0.00	1.05	0.12	0.00	1.17	0.00	20.00	0.00	0.	0.00
310	63.600	29.23	0.00	0.00	0.00	5.29	1.26	0.00	1.26	0.00	1.05	0.12	0.00	1.17	0.00	20.00	0.00	0.	0.00
311	63.400	29.26	0.00	0.00	0.00	5.29	1.26	0.00	1.26	0.00	1.05	0.13	0.00	1.18	0.00	20.00	0.00	0.	0.00
312	63.200	29.28	0.00	0.00	0.00	5.28	1.25	0.00	1.25	0.00	1.05	0.13	0.00	1.18	0.00	20.00	0.00	0.	0.00
313	63.000	29.30	0.00	0.00	0.00	5.28	1.25	0.00	1.25	0.00	1.05	0.13	0.00	1.18	0.00	20.00	0.00	0.	0.00
314	62.800	29.32	0.00	0.00	0.00	5.28	1.24	0.00	1.24	0.00	1.06	0.13	0.00	1.18	0.00	20.00	0.00	0.	0.00

315	62.600	29.34	0.00	0.00	0.00	5.27	1.24	0.00	1.24	0.00	1.06	0.13	0.00	1.18	0.00	20.00	0.00	0.	0.00
316	62.400	29.37	0.00	0.00	0.00	5.27	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
317	62.200	29.39	0.00	0.00	0.00	5.26	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
318	62.000	29.41	0.00	0.00	0.00	5.26	1.23	0.00	1.23	0.00	1.06	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
319	61.800	29.43	0.00	0.00	0.00	5.25	1.22	0.00	1.22	0.00	1.07	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
320	61.600	29.46	0.00	0.00	0.00	5.25	1.22	0.00	1.22	0.00	1.07	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
321	61.400	29.48	0.00	0.00	0.00	5.25	1.21	0.00	1.21	0.00	1.07	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
322	61.200	29.50	0.00	0.00	0.00	5.24	1.21	0.00	1.21	0.00	1.07	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
323	61.000	29.52	0.00	0.00	0.00	5.24	1.20	0.00	1.20	0.00	1.07	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
324	60.800	29.54	0.00	0.00	0.00	5.23	1.20	0.00	1.20	0.00	1.07	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
325	60.600	29.57	0.00	0.00	0.00	5.23	1.20	0.00	1.20	0.00	1.08	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
326	60.400	29.59	0.00	0.00	0.00	5.22	1.19	0.00	1.19	0.00	1.08	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
327	60.200	29.61	0.00	0.00	0.00	5.22	1.19	0.00	1.19	0.00	1.08	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
328	60.000	29.63	0.00	0.00	0.00	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
329	59.800	29.66	0.00	0.00	0.00	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
330	59.600	29.68	0.00	0.00	0.00	5.21	1.18	0.00	1.18	0.00	1.08	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
331	59.400	29.70	0.00	0.00	0.00	5.20	1.17	0.00	1.17	0.00	1.09	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
332	59.200	29.72	0.00	0.00	0.00	5.20	1.17	0.00	1.17	0.00	1.09	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
333	59.000	29.74	0.00	0.00	0.00	5.19	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
334	58.800	29.77	0.00	0.00	0.00	5.19	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
335	58.600	29.79	0.00	0.00	0.00	5.18	1.16	0.00	1.16	0.00	1.09	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
336	58.400	29.81	0.00	0.00	0.00	5.18	1.15	0.00	1.15	0.00	1.09	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
337	58.200	29.83	0.00	0.00	0.00	5.17	1.15	0.00	1.15	0.00	1.10	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
338	58.000	29.86	0.00	0.00	0.00	5.17	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
339	57.800	29.88	0.00	0.00	0.00	5.17	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
340	57.600	29.90	0.00	0.00	0.00	5.16	1.14	0.00	1.14	0.00	1.10	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
341	57.400	29.92	0.00	0.00	0.00	5.16	1.13	0.00	1.13	0.00	1.10	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
342	57.200	29.94	0.00	0.00	0.00	5.15	1.13	0.00	1.13	0.00	1.10	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
343	57.000	29.97	0.00	0.00	0.00	5.15	1.13	0.00	1.13	0.00	1.11	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
344	56.800	29.99	0.00	0.00	0.00	5.14	1.12	0.00	1.12	0.00	1.11	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
345	56.600	30.01	0.00	0.00	0.00	5.14	1.12	0.00	1.12	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
346	56.400	30.03	0.00	0.00	0.00	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
347	56.200	30.06	0.00	0.00	0.00	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
348	56.000	30.08	0.00	0.00	0.00	5.13	1.11	0.00	1.11	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
349	55.800	30.10	0.00	0.00	0.00	5.12	1.10	0.00	1.10	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
350	55.600	30.12	0.00	0.00	0.00	5.12	1.10	0.00	1.10	0.00	1.12	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00
351	55.400	30.14	0.00	0.00	0.00	5.11	1.10	0.00	1.10	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
352	55.200	30.17	0.00	0.00	0.00	5.11	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
353	55.000	30.19	0.00	0.00	0.00	5.10	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
354	54.800	30.21	0.00	0.00	0.00	5.10	1.09	0.00	1.09	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
355	54.600	30.23	0.00	0.00	0.00	5.09	1.08	0.00	1.08	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
356	54.400	30.26	0.00	0.00	0.00	5.09	1.08	0.00	1.08	0.00	1.12	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
357	54.200	30.28	0.00	0.00	0.00	5.09	1.08	0.00	1.08	0.00	1.13	0.13	0.00	1.25	0.00	20.00	0.00	0.	0.00
358	54.000	30.30	0.00	0.00	0.00	5.08	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
359	53.800	30.32	0.00	0.00	0.00	5.08	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
360	53.600	30.34	0.00	0.00	0.00	5.07	1.07	0.00	1.07	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
361	53.400	30.37	0.00	0.00	0.00	5.07	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
362	53.200	30.39	0.00	0.00	0.00	5.06	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
363	53.000	30.41	0.00	0.00	0.00	5.06	1.06	0.00	1.06	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
364	52.800	30.43	0.00	0.00	0.00	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
365	52.600	30.46	0.00	0.00	0.00	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00

366	52.400	30.48	0.00	0.00	0.00	5.05	1.05	0.00	1.05	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
367	52.200	30.50	0.00	0.00	0.00	5.04	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
368	52.000	30.52	0.00	0.00	0.00	5.04	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
369	51.800	30.54	0.00	0.00	0.00	5.03	1.04	0.00	1.04	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
370	51.600	30.57	0.00	0.00	0.00	5.03	1.03	0.00	1.03	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
371	51.400	30.59	0.00	0.00	0.00	5.02	1.03	0.00	1.03	0.00	1.14	0.13	0.00	1.27	0.00	20.00	0.00	0.	0.00
372	51.200	30.61	0.00	0.00	0.00	5.02	1.03	0.00	1.03	0.00	1.15	0.13	0.00	1.28	0.00	20.00	0.00	0.	0.00
373	51.000	30.63	0.00	0.00	0.00	5.01	1.03	0.00	1.03	0.00	1.15	0.13	0.00	1.28	0.00	20.00	0.00	0.	0.00
374	50.800	30.66	0.00	0.00	0.00	5.01	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.00	0.00	0.	0.00
375	50.600	30.68	0.00	0.00	0.00	5.01	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.00	0.00	0.	0.00
376	50.400	30.70	0.00	0.00	0.00	5.00	1.02	0.00	1.02	0.00	1.15	0.13	0.00	1.28	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 4 Black Lake Summer Projection

********** 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 #/100mL	COLI	NCM
377	UPR RCH	0.34330	30.70	0.00	0.00	0.00	5.00	1.02	0.00	1.02	0.00	1.15	0.13	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00047	30.70	0.00	0.00	0.00	4.92	1.38	0.00		1.38	0.14	0.05	0.00		0.00	0.00	
388	WSTLD	0.00300	30.70	0.00	0.00	0.00	4.90	1.79	0.00	1.79	0.00	0.97	0.15	0.05	0.00	20.00	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	AREA m²	VOLUME m³	SURFACE AREA m²	PRISM m³	X-SECT VELO m/s	TIDAL VELO m²/s	TIDAL m/s	DISPRSN	MEAN
377	50.40	50.20	0.34377	32.9	0.00017	13.28	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
378	50.20	50.00	0.34423	32.8	0.00017	13.26	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
379	50.00	49.80	0.34470	32.8	0.00017	13.24	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
380	49.80	49.60	0.34517	32.7	0.00018	13.22	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
381	49.60	49.40	0.34564	32.7	0.00018	13.20	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
382	49.40	49.20	0.34611	32.6	0.00018	13.19	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
383	49.20	49.00	0.34658	32.6	0.00018	13.17	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
384	49.00	48.80	0.34705	32.6	0.00018	13.15	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
385	48.80	48.60	0.34751	32.5	0.00018	13.13	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
386	48.60	48.40	0.34798	32.5	0.00018	13.11	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
387	48.40	48.20	0.34845	32.4	0.00018	13.10	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
388	48.20	48.00	0.35192	33.0	0.00018	12.97	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
389	48.00	47.80	0.35239	32.9	0.00018	12.95	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
390	47.80	47.60	0.35286	32.9	0.00018	12.93	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
391	47.60	47.40	0.35332	32.8	0.00018	12.92	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
392	47.40	47.20	0.35379	32.8	0.00018	12.90	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
393	47.20	47.00	0.35426	32.7	0.00018	12.88	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			
394	47.00	46.80	0.35473	32.7	0.00018	12.86	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000			

395	46.80	46.60	0.35520	32.7	0.00018	12.85	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
396	46.60	46.40	0.35567	32.6	0.00018	12.83	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
397	46.40	46.20	0.35614	32.6	0.00018	12.81	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
398	46.20	46.00	0.35660	32.5	0.00018	12.80	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
399	46.00	45.80	0.35707	32.5	0.00018	12.78	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
400	45.80	45.60	0.35754	32.4	0.00018	12.76	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
401	45.60	45.40	0.35801	32.4	0.00018	12.75	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
402	45.40	45.20	0.35848	32.4	0.00018	12.73	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
403	45.20	45.00	0.35895	32.3	0.00018	12.71	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
404	45.00	44.80	0.35942	32.3	0.00018	12.70	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
405	44.80	44.60	0.35988	32.2	0.00018	12.68	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
406	44.60	44.40	0.36035	32.2	0.00018	12.66	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
407	44.40	44.20	0.36082	32.1	0.00018	12.65	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
408	44.20	44.00	0.36129	32.1	0.00018	12.63	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
409	44.00	43.80	0.36176	32.1	0.00018	12.61	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
410	43.80	43.60	0.36223	32.0	0.00018	12.60	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
411	43.60	43.40	0.36269	32.0	0.00018	12.58	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
412	43.40	43.20	0.36316	31.9	0.00018	12.57	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
413	43.20	43.00	0.36363	31.9	0.00018	12.55	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
414	43.00	42.80	0.36410	31.9	0.00018	12.53	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
415	42.80	42.60	0.36457	31.8	0.00018	12.52	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
416	42.60	42.40	0.36504	31.8	0.00019	12.50	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
417	42.40	42.20	0.36551	31.7	0.00019	12.49	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
418	42.20	42.00	0.36597	31.7	0.00019	12.47	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
419	42.00	41.80	0.36644	31.7	0.00019	12.45	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
420	41.80	41.60	0.36691	31.6	0.00019	12.44	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
421	41.60	41.40	0.36738	31.6	0.00019	12.42	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
422	41.40	41.20	0.36785	31.5	0.00019	12.41	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
423	41.20	41.00	0.36832	31.5	0.00019	12.39	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
424	41.00	40.80	0.36879	31.5	0.00019	12.37	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
425	40.80	40.60	0.36925	31.4	0.00019	12.36	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
426	40.60	40.40	0.36972	31.4	0.00019	12.34	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
427	40.40	40.20	0.37019	31.3	0.00019	12.33	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
428	40.20	40.00	0.37066	31.3	0.00019	12.31	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
429	40.00	39.80	0.37113	31.3	0.00019	12.30	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
430	39.80	39.60	0.37160	31.2	0.00019	12.28	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
431	39.60	39.40	0.37206	31.2	0.00019	12.27	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
432	39.40	39.20	0.37253	31.1	0.00019	12.25	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
433	39.20	39.00	0.37300	31.1	0.00019	12.23	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
434	39.00	38.80	0.37347	31.1	0.00019	12.22	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
435	38.80	38.60	0.37394	31.0	0.00019	12.20	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
436	38.60	38.40	0.37441	31.0	0.00019	12.19	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
437	38.40	38.20	0.37488	30.9	0.00019	12.17	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
438	38.20	38.00	0.37534	30.9	0.00019	12.16	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
439	38.00	37.80	0.37581	30.9	0.00019	12.14	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
440	37.80	37.60	0.37628	30.8	0.00019	12.13	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
441	37.60	37.40	0.37675	30.8	0.00019	12.11	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
442	37.40	37.20	0.37722	30.8	0.00019	12.10	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
443	37.20	37.00	0.37769	30.7	0.00019	12.08	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
444	37.00	36.80	0.37816	30.7	0.00019	12.07	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
445	36.80	36.60	0.37862	30.6	0.00019	12.05	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000

446	36.60	36.40	0.37909	30.6	0.00019	12.04	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
447	36.40	36.20	0.37956	30.6	0.00019	12.02	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
448	36.20	36.00	0.38003	30.5	0.00019	12.01	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000
449	36.00	35.80	0.38050	30.5	0.00019	11.99	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.000

TOT			918.06		28783024.00	18936200.00
AVG		0.0002		1.52	1297.00	1971.44
CUM			952.30			

********** 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	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	50.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
378	50.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
379	49.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
380	49.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
381	49.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
382	49.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
383	49.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
384	48.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
385	48.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
386	48.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
387	48.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
388	48.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
389	47.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
390	47.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
391	47.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
392	47.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
393	47.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
394	46.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
395	46.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
396	46.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
397	46.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
398	46.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
399	45.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
400	45.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
401	45.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
402	45.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
403	45.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
404	44.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
405	44.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
406	44.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
407	44.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
408	44.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
409	43.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
410	43.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
411	43.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00

412	43.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
413	43.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
414	42.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
415	42.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
416	42.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
417	42.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
418	42.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
419	41.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
420	41.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
421	41.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
422	41.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
423	41.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
424	40.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
425	40.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
426	40.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
427	40.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
428	40.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
429	39.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
430	39.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
431	39.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
432	39.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
433	39.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
434	38.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
435	38.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
436	38.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
437	38.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
438	38.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
439	37.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
440	37.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
441	37.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
442	37.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
443	37.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
444	36.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
445	36.600	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
446	36.400	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
447	36.200	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
448	36.000	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
449	35.800	7.47	0.64	0.10	0.00	0.00	0.00	0.00	0.00	2.94	2.94	2.94	0.02	0.00	0.21	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.06	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.11	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 #/100mL	COLI	NCM
377	50.200	30.70	0.00	0.00	0.00	5.16	2.63	0.00	2.63	0.00	1.13	0.13	0.00	1.26	0.00	20.00	0.00	0.	0.00
378	50.000	30.70	0.00	0.00	0.00	5.09	3.32	0.00	3.32	0.00	1.11	0.13	0.00	1.24	0.00	20.00	0.00	0.	0.00

379	49.800	30.70	0.00	0.00	0.00	5.04	3.63	0.00	3.63	0.00	1.10	0.13	0.00	1.23	0.00	20.00	0.00	0.	0.00
380	49.600	30.70	0.00	0.00	0.00	5.02	3.76	0.00	3.76	0.00	1.09	0.13	0.00	1.22	0.00	20.00	0.00	0.	0.00
381	49.400	30.70	0.00	0.00	0.00	5.01	3.82	0.00	3.82	0.00	1.08	0.13	0.00	1.21	0.00	20.00	0.00	0.	0.00
382	49.200	30.70	0.00	0.00	0.00	5.00	3.84	0.00	3.84	0.00	1.07	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
383	49.000	30.70	0.00	0.00	0.00	5.00	3.85	0.00	3.85	0.00	1.07	0.13	0.00	1.20	0.00	20.00	0.00	0.	0.00
384	48.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.07	0.13	0.00	1.19	0.00	20.00	0.00	0.	0.00
385	48.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.07	0.12	0.00	1.19	0.00	20.00	0.00	0.	0.00
386	48.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.19	0.00	20.00	0.00	0.	0.00
387	48.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.19	0.00	20.00	0.00	0.	0.00
388	48.000	30.70	0.00	0.00	0.00	5.00	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
389	47.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
390	47.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
391	47.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
392	47.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
393	47.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
394	46.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
395	46.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
396	46.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
397	46.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
398	46.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
399	45.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
400	45.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
401	45.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
402	45.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
403	45.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
404	44.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
405	44.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
406	44.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
407	44.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
408	44.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
409	43.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
410	43.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
411	43.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
412	43.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
413	43.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
414	42.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
415	42.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
416	42.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
417	42.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
418	42.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
419	41.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
420	41.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
421	41.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
422	41.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
423	41.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
424	40.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
425	40.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
426	40.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
427	40.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
428	40.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
429	39.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00

430	39.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
431	39.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
432	39.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
433	39.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
434	38.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
435	38.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
436	38.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
437	38.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
438	38.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
439	37.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
440	37.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
441	37.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
442	37.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
443	37.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
444	36.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
445	36.600	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
446	36.400	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
447	36.200	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
448	36.000	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
449	35.800	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 5 Clear Lake Summer Projection

********** 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 #/100mL	COLI	NCM
450	UPR RCH	0.38050	30.70	0.00	0.00	0.00	5.00	3.86	0.00	3.86	0.00	1.06	0.12	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00047	30.70	0.00	0.00	0.00	4.92	1.38	0.00		1.38	0.14	0.05	0.00	0.00	0.00		
505	WSTLD	-0.20300	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
450	35.80	35.60	0.38097	30.4	0.00005	51.31	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
451	35.60	35.40	0.38144	30.4	0.00005	51.24	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
452	35.40	35.20	0.38191	30.4	0.00005	51.18	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
453	35.20	35.00	0.38238	30.3	0.00005	51.12	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
454	35.00	34.80	0.38285	30.3	0.00005	51.06	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
455	34.80	34.60	0.38332	30.3	0.00005	50.99	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
456	34.60	34.40	0.38379	30.2	0.00005	50.93	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
457	34.40	34.20	0.38425	30.2	0.00005	50.87	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
458	34.20	34.00	0.38472	30.2	0.00005	50.81	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000

459	34.00	33.80	0.38519	30.1	0.00005	50.74	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
460	33.80	33.60	0.38566	30.1	0.00005	50.68	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
461	33.60	33.40	0.38613	30.0	0.00005	50.62	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
462	33.40	33.20	0.38660	30.0	0.00005	50.56	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
463	33.20	33.00	0.38707	30.0	0.00005	50.50	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
464	33.00	32.80	0.38754	29.9	0.00005	50.44	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
465	32.80	32.60	0.38801	29.9	0.00005	50.38	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
466	32.60	32.40	0.38848	29.9	0.00005	50.31	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
467	32.40	32.20	0.38895	29.8	0.00005	50.25	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
468	32.20	32.00	0.38942	29.8	0.00005	50.19	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
469	32.00	31.80	0.38989	29.8	0.00005	50.13	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
470	31.80	31.60	0.39036	29.7	0.00005	50.07	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
471	31.60	31.40	0.39083	29.7	0.00005	50.01	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
472	31.40	31.20	0.39130	29.6	0.00005	49.95	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
473	31.20	31.00	0.39177	29.6	0.00005	49.89	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
474	31.00	30.80	0.39224	29.6	0.00005	49.83	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
475	30.80	30.60	0.39271	29.5	0.00005	49.77	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
476	30.60	30.40	0.39318	29.5	0.00005	49.71	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
477	30.40	30.20	0.39365	29.5	0.00005	49.65	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
478	30.20	30.00	0.39412	29.4	0.00005	49.60	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
479	30.00	29.80	0.39459	29.4	0.00005	49.54	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
480	29.80	29.60	0.39506	29.4	0.00005	49.48	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
481	29.60	29.40	0.39553	29.3	0.00005	49.42	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
482	29.40	29.20	0.39600	29.3	0.00005	49.36	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
483	29.20	29.00	0.39647	29.3	0.00005	49.30	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
484	29.00	28.80	0.39694	29.2	0.00005	49.24	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
485	28.80	28.60	0.39741	29.2	0.00005	49.18	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
486	28.60	28.40	0.39787	29.2	0.00005	49.13	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
487	28.40	28.20	0.39834	29.1	0.00005	49.07	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
488	28.20	28.00	0.39881	29.1	0.00005	49.01	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
489	28.00	27.80	0.39928	29.1	0.00005	48.95	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
490	27.80	27.60	0.39975	29.0	0.00005	48.90	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
491	27.60	27.40	0.40022	29.0	0.00005	48.84	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
492	27.40	27.20	0.40069	28.9	0.00005	48.78	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
493	27.20	27.00	0.40116	28.9	0.00005	48.72	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
494	27.00	26.80	0.40163	28.9	0.00005	48.67	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
495	26.80	26.60	0.40210	28.8	0.00005	48.61	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
496	26.60	26.40	0.40257	28.8	0.00005	48.55	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
497	26.40	26.20	0.40304	28.8	0.00005	48.50	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
498	26.20	26.00	0.40351	28.7	0.00005	48.44	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
499	26.00	25.80	0.40398	28.7	0.00005	48.38	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
500	25.80	25.60	0.40445	28.7	0.00005	48.33	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
501	25.60	25.40	0.40492	28.6	0.00005	48.27	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
502	25.40	25.20	0.40539	28.6	0.00005	48.22	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
503	25.20	25.00	0.40586	28.6	0.00005	48.16	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
504	25.00	24.80	0.40633	28.5	0.00005	48.10	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
505	24.80	24.60	0.20380	28.5	0.00002	95.91	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000

TOT		2827.88		94573128.00	19028800.00
AVG		0.0000	4.97	1699.00	8444.03
CUM		3780.18			

********** 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
450	35.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
451	35.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
452	35.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
453	35.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
454	34.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
455	34.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
456	34.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
457	34.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
458	34.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
459	33.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
460	33.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
461	33.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
462	33.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
463	33.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
464	32.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
465	32.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
466	32.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
467	32.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
468	32.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
469	31.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
470	31.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
471	31.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
472	31.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
473	31.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
474	30.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
475	30.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
476	30.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
477	30.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
478	30.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
479	29.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
480	29.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
481	29.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
482	29.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
483	29.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
484	28.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
485	28.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
486	28.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
487	28.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
488	28.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
489	27.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
490	27.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
491	27.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
492	27.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00

493	27.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
494	26.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
495	26.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
496	26.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
497	26.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
498	26.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
499	25.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
500	25.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
501	25.400	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
502	25.200	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
503	25.000	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
504	24.800	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
505	24.600	7.47	0.20	0.10	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	0.85	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.16	0.06	0.00	0.00	0.00	0.00	0.00	1.53			0.02	0.00	0.11	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
450	35.600	30.70	0.00	0.00	0.00	6.09	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
451	35.400	30.70	0.00	0.00	0.00	6.19	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
452	35.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
453	35.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
454	34.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
455	34.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
456	34.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
457	34.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
458	34.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
459	33.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
460	33.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
461	33.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
462	33.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
463	33.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
464	32.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
465	32.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
466	32.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
467	32.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
468	32.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
469	31.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
470	31.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
471	31.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
472	31.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
473	31.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
474	30.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
475	30.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
476	30.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00

477	30.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
478	30.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
479	29.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
480	29.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
481	29.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
482	29.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
483	29.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
484	28.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
485	28.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
486	28.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
487	28.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
488	28.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
489	27.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
490	27.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
491	27.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
492	27.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
493	27.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
494	26.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
495	26.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
496	26.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
497	26.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
498	26.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
499	25.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
500	25.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
501	25.400	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
502	25.200	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
503	25.000	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
504	24.800	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
505	24.600	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 6 Black Lake Bayou Summer Projection

********** 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
506	UPR RCH	0.20380	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
506	24.60	24.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
507	24.40	24.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000

508	24.20	24.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
509	24.00	23.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
510	23.80	23.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
511	23.60	23.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
512	23.40	23.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
513	23.20	23.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
514	23.00	22.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
515	22.80	22.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
516	22.60	22.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
517	22.40	22.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
518	22.20	22.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
519	22.00	21.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
520	21.80	21.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
521	21.60	21.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
522	21.40	21.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
523	21.20	21.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
524	21.00	20.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
525	20.80	20.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
526	20.60	20.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
527	20.40	20.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
528	20.20	20.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
529	20.00	19.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
530	19.80	19.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
531	19.60	19.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
532	19.40	19.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
533	19.20	19.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
534	19.00	18.80	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
535	18.80	18.60	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
536	18.60	18.40	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
537	18.40	18.20	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000
538	18.20	18.00	0.20380	28.5	0.00033	7.10	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.000

TOT			234.19		4123680.00	726000.00	
AVG		0.0003		5.68	110.00		624.80
CUM			4014.37				

********** 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 *	SRCE **	PO4 PROD **	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
506	24.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
507	24.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
508	24.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
509	23.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
510	23.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	
511	23.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.21	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	
512	23.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	
513	23.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	

514	22.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
515	22.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
516	22.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
517	22.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
518	22.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
519	21.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
520	21.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
521	21.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
522	21.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
523	21.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
524	20.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
525	20.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
526	20.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
527	20.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
528	20.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
529	19.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
530	19.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.22	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
531	19.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
532	19.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
533	19.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
534	18.800	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
535	18.600	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
536	18.400	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
537	18.200	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
538	18.000	7.47	0.17	0.10	0.00	0.00	0.00	0.00	0.00	4.40	4.40	4.40	0.02	0.00	0.23	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.14	0.06	0.00	0.00	0.00	0.00	0.00	2.24			0.02	0.00	0.11	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
506	24.400	30.70	0.00	0.00	0.00	5.62	3.86	0.00	3.86	0.00	1.06	0.12	0.00	1.18	0.00	20.42	0.00	0.	0.00
507	24.200	30.70	0.00	0.00	0.00	5.42	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	20.85	0.00	0.	0.00
508	24.000	30.70	0.00	0.00	0.00	5.39	3.85	0.00	3.85	0.00	1.06	0.12	0.00	1.18	0.00	21.27	0.00	0.	0.00
509	23.800	30.70	0.00	0.00	0.00	5.43	3.84	0.00	3.84	0.00	1.06	0.12	0.00	1.18	0.00	21.70	0.00	0.	0.00
510	23.600	30.70	0.00	0.00	0.00	5.51	3.84	0.00	3.84	0.00	1.06	0.12	0.00	1.18	0.00	22.12	0.00	0.	0.00
511	23.400	30.70	0.00	0.00	0.00	5.60	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.18	0.00	22.55	0.00	0.	0.00
512	23.200	30.70	0.00	0.00	0.00	5.71	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	22.97	0.00	0.	0.00
513	23.000	30.70	0.00	0.00	0.00	5.81	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	23.39	0.00	0.	0.00
514	22.800	30.70	0.00	0.00	0.00	5.91	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	23.82	0.00	0.	0.00
515	22.600	30.70	0.00	0.00	0.00	6.02	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	24.24	0.00	0.	0.00
516	22.400	30.70	0.00	0.00	0.00	6.12	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	24.67	0.00	0.	0.00
517	22.200	30.70	0.00	0.00	0.00	6.23	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.09	0.00	0.	0.00
518	22.000	30.70	0.00	0.00	0.00	6.33	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.52	0.00	0.	0.00
519	21.800	30.70	0.00	0.00	0.00	6.44	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	25.94	0.00	0.	0.00
520	21.600	30.70	0.00	0.00	0.00	6.54	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	26.36	0.00	0.	0.00

521	21.400	30.70	0.00	0.00	0.00	6.65	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	26.79	0.00	0.	0.00
522	21.200	30.70	0.00	0.00	0.00	6.76	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	27.21	0.00	0.	0.00
523	21.000	30.70	0.00	0.00	0.00	6.86	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	27.64	0.00	0.	0.00
524	20.800	30.70	0.00	0.00	0.00	6.97	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.06	0.00	0.	0.00
525	20.600	30.70	0.00	0.00	0.00	7.07	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.48	0.00	0.	0.00
526	20.400	30.70	0.00	0.00	0.00	7.18	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	28.91	0.00	0.	0.00
527	20.200	30.70	0.00	0.00	0.00	7.28	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	29.33	0.00	0.	0.00
528	20.000	30.70	0.00	0.00	0.00	7.39	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	29.76	0.00	0.	0.00
529	19.800	30.70	0.00	0.00	0.00	7.49	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	30.18	0.00	0.	0.00
530	19.600	30.70	0.00	0.00	0.00	7.60	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	30.61	0.00	0.	0.00
531	19.400	30.70	0.00	0.00	0.00	7.70	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.03	0.00	0.	0.00
532	19.200	30.70	0.00	0.00	0.00	7.81	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.45	0.00	0.	0.00
533	19.000	30.70	0.00	0.00	0.00	7.91	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	31.88	0.00	0.	0.00
534	18.800	30.70	0.00	0.00	0.00	8.02	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.17	0.00	32.30	0.00	0.	0.00
535	18.600	30.70	0.00	0.00	0.00	8.12	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	32.73	0.00	0.	0.00
536	18.400	30.70	0.00	0.00	0.00	8.23	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	33.15	0.00	0.	0.00
537	18.200	30.70	0.00	0.00	0.00	8.33	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	33.58	0.00	0.	0.00
538	18.000	30.70	0.00	0.00	0.00	8.44	3.84	0.00	3.84	0.00	1.05	0.12	0.00	1.16	0.00	34.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 7 Saline Bayou Summer Projection

********** 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
539	UPR RCH	0.20380	30.70	0.00	0.00	0.00	8.44	3.84	0.00	3.84	0.00	1.05	0.12	0.00	0.00	34.00	0.00	0.00
539	WSTLD	0.36040	31.70	0.00	0.00	0.00	4.72	2.13	0.00	2.13	0.00	1.15	0.18	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
539	18.00	17.80	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
540	17.80	17.60	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
541	17.60	17.40	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
542	17.40	17.20	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
543	17.20	17.00	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
544	17.00	16.80	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
545	16.80	16.60	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
546	16.60	16.40	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
547	16.40	16.20	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
548	16.20	16.00	0.56420	74.2	0.00090	2.56	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
TOT						25.63			1249600.00	220000.00					

AVG	0.0009	5.68	110.00	624.80
CUM	4040.01			

********** 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 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
539	17.800	7.46	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.68	7.68	7.68	0.02	0.00	0.22	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
540	17.600	7.45	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.72	7.72	7.72	0.02	0.00	0.22	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
541	17.400	7.44	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.76	7.76	7.76	0.02	0.00	0.22	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
542	17.200	7.43	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.80	7.80	7.80	0.02	0.00	0.22	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
543	17.000	7.42	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.84	7.84	7.84	0.02	0.00	0.22	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
544	16.800	7.41	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.88	7.88	7.88	0.02	0.00	0.22	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
545	16.600	7.40	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.92	7.92	7.92	0.02	0.00	0.22	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
546	16.400	7.39	0.17	0.10	0.00	0.00	0.00	0.00	0.00	7.96	7.96	7.96	0.03	0.00	0.22	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
547	16.200	7.38	0.17	0.10	0.00	0.00	0.00	0.00	0.00	8.00	8.00	8.00	0.03	0.00	0.23	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
548	16.000	7.37	0.17	0.10	0.00	0.00	0.00	0.00	0.00	8.04	8.04	8.04	0.03	0.00	0.23	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.89			0.02	0.00	0.11	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	MACRO	COLI #/100mL	NCM
539	17.800	30.78	0.00	0.00	0.00	5.88	3.40	0.00	3.40	0.00	1.13	0.15	0.00	1.28	0.00	34.80	0.00	0.	0.00
540	17.600	30.86	0.00	0.00	0.00	5.73	3.92	0.00	3.92	0.00	1.15	0.14	0.00	1.29	0.00	35.60	0.00	0.	0.00
541	17.400	30.94	0.00	0.00	0.00	5.61	4.34	0.00	4.34	0.00	1.17	0.14	0.00	1.31	0.00	36.40	0.00	0.	0.00
542	17.200	31.02	0.00	0.00	0.00	5.52	4.66	0.00	4.66	0.00	1.19	0.14	0.00	1.33	0.00	37.20	0.00	0.	0.00
543	17.000	31.10	0.00	0.00	0.00	5.47	4.92	0.00	4.92	0.00	1.20	0.14	0.00	1.34	0.00	38.00	0.00	0.	0.00
544	16.800	31.18	0.00	0.00	0.00	5.45	5.11	0.00	5.11	0.00	1.22	0.14	0.00	1.36	0.00	38.80	0.00	0.	0.00
545	16.600	31.26	0.00	0.00	0.00	5.47	5.27	0.00	5.27	0.00	1.23	0.14	0.00	1.37	0.00	39.60	0.00	0.	0.00
546	16.400	31.34	0.00	0.00	0.00	5.51	5.39	0.00	5.39	0.00	1.24	0.14	0.00	1.38	0.00	40.40	0.00	0.	0.00
547	16.200	31.42	0.00	0.00	0.00	5.57	5.48	0.00	5.48	0.00	1.26	0.14	0.00	1.40	0.00	41.20	0.00	0.	0.00
548	16.000	31.50	0.00	0.00	0.00	5.66	5.55	0.00	5.55	0.00	1.27	0.14	0.00	1.41	0.00	42.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 10 Saline Bayou Summer Projection

********** 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

579	UPR RCH	0.56420	31.50	0.00	0.00	0.00	5.66	5.55	0.00	5.55	0.00	1.27	0.14	0.00	0.00	42.00	0.00	0.00
579	TRIB	0.20300	31.50	0.00	0.00	0.00	5.46	13.06	0.00	13.06	0.00	1.17	0.13	0.00	0.00	42.00	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
579	16.00	15.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
580	15.80	15.60	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
581	15.60	15.40	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
582	15.40	15.20	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
583	15.20	15.00	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
584	15.00	14.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
585	14.80	14.60	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
586	14.60	14.40	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
587	14.40	14.20	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
588	14.20	14.00	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
589	14.00	13.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
590	13.80	13.60	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
591	13.60	13.40	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
592	13.40	13.20	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
593	13.20	13.00	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
594	13.00	12.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
595	12.80	12.60	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
596	12.60	12.40	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
597	12.40	12.20	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
598	12.20	12.00	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
599	12.00	11.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
600	11.80	11.60	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
601	11.60	11.40	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
602	11.40	11.20	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
603	11.20	11.00	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
604	11.00	10.80	0.76720	54.6	0.00332	0.70	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.003
TOT				18.13					1201508.38	262912.00					
AVG					0.0033		4.57	50.56			231.06				
CUM				4058.13											

********** 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 *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE *	DENIT SRCE **	PO4 PROD **	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da
579	15.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
580	15.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00

581	15.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
582	15.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
583	15.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
584	14.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
585	14.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
586	14.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
587	14.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
588	14.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00
589	13.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
590	13.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
591	13.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
592	13.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.22	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
593	13.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
594	12.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
595	12.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
596	12.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
597	12.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
598	12.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
599	11.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
600	11.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
601	11.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
602	11.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
603	11.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
604	10.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.61	7.61	7.61	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.18 0.06 0.00 0.00 0.00 0.00 0.00 3.69 0.02 0.00 0.11 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
579	15.800	31.50	0.00	0.00	0.00	5.42	7.35	0.00	7.35	0.00	1.24	0.14	0.00	1.38	0.00	42.31	0.00	0.	0.00
580	15.600	31.50	0.00	0.00	0.00	5.28	7.17	0.00	7.17	0.00	1.24	0.14	0.00	1.38	0.00	42.62	0.00	0.	0.00
581	15.400	31.50	0.00	0.00	0.00	5.18	7.01	0.00	7.01	0.00	1.24	0.14	0.00	1.38	0.00	42.92	0.00	0.	0.00
582	15.200	31.50	0.00	0.00	0.00	5.11	6.85	0.00	6.85	0.00	1.24	0.14	0.00	1.38	0.00	43.23	0.00	0.	0.00
583	15.000	31.50	0.00	0.00	0.00	5.07	6.71	0.00	6.71	0.00	1.25	0.14	0.00	1.38	0.00	43.54	0.00	0.	0.00
584	14.800	31.50	0.00	0.00	0.00	5.04	6.58	0.00	6.58	0.00	1.25	0.14	0.00	1.38	0.00	43.85	0.00	0.	0.00
585	14.600	31.50	0.00	0.00	0.00	5.04	6.45	0.00	6.45	0.00	1.25	0.14	0.00	1.38	0.00	44.15	0.00	0.	0.00
586	14.400	31.50	0.00	0.00	0.00	5.05	6.34	0.00	6.34	0.00	1.25	0.14	0.00	1.39	0.00	44.46	0.00	0.	0.00
587	14.200	31.50	0.00	0.00	0.00	5.07	6.23	0.00	6.23	0.00	1.25	0.14	0.00	1.39	0.00	44.77	0.00	0.	0.00
588	14.000	31.50	0.00	0.00	0.00	5.11	6.13	0.00	6.13	0.00	1.25	0.14	0.00	1.39	0.00	45.08	0.00	0.	0.00
589	13.800	31.50	0.00	0.00	0.00	5.16	6.03	0.00	6.03	0.00	1.25	0.14	0.00	1.39	0.00	45.38	0.00	0.	0.00
590	13.600	31.50	0.00	0.00	0.00	5.21	5.94	0.00	5.94	0.00	1.25	0.14	0.00	1.39	0.00	45.69	0.00	0.	0.00
591	13.400	31.50	0.00	0.00	0.00	5.27	5.86	0.00	5.86	0.00	1.25	0.14	0.00	1.39	0.00	46.00	0.00	0.	0.00
592	13.200	31.50	0.00	0.00	0.00	5.33	5.78	0.00	5.78	0.00	1.25	0.14	0.00	1.39	0.00	46.31	0.00	0.	0.00
593	13.000	31.50	0.00	0.00	0.00	5.40	5.71	0.00	5.71	0.00	1.25	0.14	0.00	1.39	0.00	46.62	0.00	0.	0.00
594	12.800	31.50	0.00	0.00	0.00	5.47	5.64	0.00	5.64	0.00	1.25	0.14	0.00	1.39	0.00	46.92	0.00	0.	0.00

595	12.600	31.50	0.00	0.00	0.00	5.54	5.58	0.00	5.58	0.00	1.25	0.14	0.00	1.39	0.00	47.23	0.00	0.	0.00
596	12.400	31.50	0.00	0.00	0.00	5.62	5.52	0.00	5.52	0.00	1.25	0.14	0.00	1.39	0.00	47.54	0.00	0.	0.00
597	12.200	31.50	0.00	0.00	0.00	5.70	5.47	0.00	5.47	0.00	1.25	0.14	0.00	1.39	0.00	47.85	0.00	0.	0.00
598	12.000	31.50	0.00	0.00	0.00	5.78	5.42	0.00	5.42	0.00	1.25	0.14	0.00	1.39	0.00	48.15	0.00	0.	0.00
599	11.800	31.50	0.00	0.00	0.00	5.86	5.37	0.00	5.37	0.00	1.25	0.14	0.00	1.39	0.00	48.46	0.00	0.	0.00
600	11.600	31.50	0.00	0.00	0.00	5.94	5.32	0.00	5.32	0.00	1.25	0.14	0.00	1.39	0.00	48.77	0.00	0.	0.00
601	11.400	31.50	0.00	0.00	0.00	6.02	5.28	0.00	5.28	0.00	1.25	0.14	0.00	1.39	0.00	49.08	0.00	0.	0.00
602	11.200	31.50	0.00	0.00	0.00	6.10	5.24	0.00	5.24	0.00	1.25	0.14	0.00	1.39	0.00	49.38	0.00	0.	0.00
603	11.000	31.50	0.00	0.00	0.00	6.18	5.21	0.00	5.21	0.00	1.25	0.14	0.00	1.39	0.00	49.69	0.00	0.	0.00
604	10.800	31.50	0.00	0.00	0.00	6.26	5.17	0.00	5.17	0.00	1.25	0.14	0.00	1.39	0.00	50.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 11 Saline Bayou Summer Projection

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
605	UPR RCH	0.76720	31.50	0.00	0.00	0.00	6.26	5.17	0.00	5.17	0.00	1.25	0.14	0.00	0.00	50.00	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 AREA m³	VOLUME m²	SURFACE AREA m²	PRISM m³	X-SECT VELO m/s	TIDAL VELO m²/s	TIDAL	DISPRSN m/s	MEAN
605	10.80	10.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
606	10.60	10.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
607	10.40	10.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
608	10.20	10.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
609	10.00	9.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
610	9.80	9.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
611	9.60	9.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
612	9.40	9.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
613	9.20	9.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
614	9.00	8.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
615	8.80	8.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
616	8.60	8.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
617	8.40	8.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
618	8.20	8.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
619	8.00	7.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
620	7.80	7.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
621	7.60	7.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
622	7.40	7.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
623	7.20	7.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
624	7.00	6.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	
625	6.80	6.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003	

626	6.60	6.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
627	6.40	6.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
628	6.20	6.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
629	6.00	5.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
630	5.80	5.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
631	5.60	5.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
632	5.40	5.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
633	5.20	5.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
634	5.00	4.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
635	4.80	4.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
636	4.60	4.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
637	4.40	4.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
638	4.20	4.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
639	4.00	3.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
640	3.80	3.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
641	3.60	3.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
642	3.40	3.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
643	3.20	3.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
644	3.00	2.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
645	2.80	2.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
646	2.60	2.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
647	2.40	2.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
648	2.20	2.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
649	2.00	1.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
650	1.80	1.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
651	1.60	1.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
652	1.40	1.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
653	1.20	1.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
654	1.00	0.80	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
655	0.80	0.60	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
656	0.60	0.40	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
657	0.40	0.20	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003
658	0.20	0.00	0.76720	54.6	0.00273	0.85	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.003

TOT			45.81		3036380.50	664416.00
AVG			0.0027	4.57	61.52	281.15
CUM			4103.94			

********** 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
605	10.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
606	10.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
607	10.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
608	10.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
609	9.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
610	9.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00

611	9.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
612	9.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
613	9.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
614	8.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
615	8.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
616	8.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
617	8.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
618	8.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
619	7.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
620	7.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
621	7.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
622	7.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
623	7.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
624	6.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
625	6.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
626	6.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
627	6.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
628	6.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
629	5.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
630	5.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
631	5.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
632	5.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
633	5.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
634	4.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
635	4.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
636	4.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
637	4.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
638	4.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
639	3.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
640	3.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
641	3.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
642	3.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
643	3.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
644	2.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
645	2.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
646	2.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
647	2.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
648	2.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
649	1.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
650	1.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
651	1.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
652	1.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
653	1.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
654	0.800	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
655	0.600	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
656	0.400	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
657	0.200	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
658	0.000	7.37	0.22	0.10	0.00	0.00	0.00	0.00	0.00	7.87	7.87	7.87	0.03	0.00	0.22	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.18	0.06	0.00	0.00	0.00	0.00	0.00	3.81			0.02	0.00	0.11	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
605	10.600	31.50	0.00	0.00	0.00	6.28	5.39	0.00	5.39	0.00	1.26	0.14	0.00	1.40	0.00	50.00	0.00	0.	0.00
606	10.400	31.50	0.00	0.00	0.00	6.29	5.59	0.00	5.59	0.00	1.26	0.14	0.00	1.40	0.00	50.00	0.00	0.	0.00
607	10.200	31.50	0.00	0.00	0.00	6.28	5.77	0.00	5.77	0.00	1.26	0.14	0.00	1.40	0.00	50.00	0.00	0.	0.00
608	10.000	31.50	0.00	0.00	0.00	6.27	5.94	0.00	5.94	0.00	1.27	0.14	0.00	1.40	0.00	50.00	0.00	0.	0.00
609	9.800	31.50	0.00	0.00	0.00	6.24	6.10	0.00	6.10	0.00	1.27	0.14	0.00	1.41	0.00	50.00	0.00	0.	0.00
610	9.600	31.50	0.00	0.00	0.00	6.21	6.24	0.00	6.24	0.00	1.27	0.14	0.00	1.41	0.00	50.00	0.00	0.	0.00
611	9.400	31.50	0.00	0.00	0.00	6.17	6.37	0.00	6.37	0.00	1.27	0.14	0.00	1.41	0.00	50.00	0.00	0.	0.00
612	9.200	31.50	0.00	0.00	0.00	6.13	6.49	0.00	6.49	0.00	1.28	0.14	0.00	1.42	0.00	50.00	0.00	0.	0.00
613	9.000	31.50	0.00	0.00	0.00	6.09	6.60	0.00	6.60	0.00	1.28	0.14	0.00	1.42	0.00	50.00	0.00	0.	0.00
614	8.800	31.50	0.00	0.00	0.00	6.04	6.71	0.00	6.71	0.00	1.28	0.14	0.00	1.42	0.00	50.00	0.00	0.	0.00
615	8.600	31.50	0.00	0.00	0.00	6.00	6.80	0.00	6.80	0.00	1.29	0.14	0.00	1.42	0.00	50.00	0.00	0.	0.00
616	8.400	31.50	0.00	0.00	0.00	5.96	6.89	0.00	6.89	0.00	1.29	0.14	0.00	1.43	0.00	50.00	0.00	0.	0.00
617	8.200	31.50	0.00	0.00	0.00	5.91	6.97	0.00	6.97	0.00	1.29	0.14	0.00	1.43	0.00	50.00	0.00	0.	0.00
618	8.000	31.50	0.00	0.00	0.00	5.87	7.04	0.00	7.04	0.00	1.29	0.14	0.00	1.43	0.00	50.00	0.00	0.	0.00
619	7.800	31.50	0.00	0.00	0.00	5.83	7.11	0.00	7.11	0.00	1.29	0.14	0.00	1.44	0.00	50.00	0.00	0.	0.00
620	7.600	31.50	0.00	0.00	0.00	5.79	7.17	0.00	7.17	0.00	1.30	0.14	0.00	1.44	0.00	50.00	0.00	0.	0.00
621	7.400	31.50	0.00	0.00	0.00	5.76	7.23	0.00	7.23	0.00	1.30	0.14	0.00	1.44	0.00	50.00	0.00	0.	0.00
622	7.200	31.50	0.00	0.00	0.00	5.72	7.28	0.00	7.28	0.00	1.30	0.14	0.00	1.44	0.00	50.00	0.00	0.	0.00
623	7.000	31.50	0.00	0.00	0.00	5.69	7.33	0.00	7.33	0.00	1.30	0.14	0.00	1.45	0.00	50.00	0.00	0.	0.00
624	6.800	31.50	0.00	0.00	0.00	5.65	7.38	0.00	7.38	0.00	1.31	0.14	0.00	1.45	0.00	50.00	0.00	0.	0.00
625	6.600	31.50	0.00	0.00	0.00	5.62	7.42	0.00	7.42	0.00	1.31	0.14	0.00	1.45	0.00	50.00	0.00	0.	0.00
626	6.400	31.50	0.00	0.00	0.00	5.60	7.46	0.00	7.46	0.00	1.31	0.14	0.00	1.45	0.00	50.00	0.00	0.	0.00
627	6.200	31.50	0.00	0.00	0.00	5.57	7.49	0.00	7.49	0.00	1.31	0.14	0.00	1.46	0.00	50.00	0.00	0.	0.00
628	6.000	31.50	0.00	0.00	0.00	5.54	7.52	0.00	7.52	0.00	1.31	0.14	0.00	1.46	0.00	50.00	0.00	0.	0.00
629	5.800	31.50	0.00	0.00	0.00	5.52	7.55	0.00	7.55	0.00	1.32	0.14	0.00	1.46	0.00	50.00	0.00	0.	0.00
630	5.600	31.50	0.00	0.00	0.00	5.50	7.58	0.00	7.58	0.00	1.32	0.14	0.00	1.46	0.00	50.00	0.00	0.	0.00
631	5.400	31.50	0.00	0.00	0.00	5.48	7.61	0.00	7.61	0.00	1.32	0.14	0.00	1.46	0.00	50.00	0.00	0.	0.00
632	5.200	31.50	0.00	0.00	0.00	5.46	7.63	0.00	7.63	0.00	1.32	0.15	0.00	1.47	0.00	50.00	0.00	0.	0.00
633	5.000	31.50	0.00	0.00	0.00	5.44	7.65	0.00	7.65	0.00	1.32	0.15	0.00	1.47	0.00	50.00	0.00	0.	0.00
634	4.800	31.50	0.00	0.00	0.00	5.42	7.67	0.00	7.67	0.00	1.32	0.15	0.00	1.47	0.00	50.00	0.00	0.	0.00
635	4.600	31.50	0.00	0.00	0.00	5.41	7.69	0.00	7.69	0.00	1.33	0.15	0.00	1.47	0.00	50.00	0.00	0.	0.00
636	4.400	31.50	0.00	0.00	0.00	5.39	7.70	0.00	7.70	0.00	1.33	0.15	0.00	1.47	0.00	50.00	0.00	0.	0.00
637	4.200	31.50	0.00	0.00	0.00	5.38	7.72	0.00	7.72	0.00	1.33	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
638	4.000	31.50	0.00	0.00	0.00	5.37	7.73	0.00	7.73	0.00	1.33	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
639	3.800	31.50	0.00	0.00	0.00	5.35	7.75	0.00	7.75	0.00	1.33	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
640	3.600	31.50	0.00	0.00	0.00	5.34	7.76	0.00	7.76	0.00	1.33	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
641	3.400	31.50	0.00	0.00	0.00	5.33	7.77	0.00	7.77	0.00	1.34	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
642	3.200	31.50	0.00	0.00	0.00	5.32	7.78	0.00	7.78	0.00	1.34	0.15	0.00	1.48	0.00	50.00	0.00	0.	0.00
643	3.000	31.50	0.00	0.00	0.00	5.32	7.79	0.00	7.79	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
644	2.800	31.50	0.00	0.00	0.00	5.31	7.80	0.00	7.80	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
645	2.600	31.50	0.00	0.00	0.00	5.30	7.81	0.00	7.81	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
646	2.400	31.50	0.00	0.00	0.00	5.29	7.81	0.00	7.81	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
647	2.200	31.50	0.00	0.00	0.00	5.29	7.82	0.00	7.82	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00

648	2.000	31.50	0.00	0.00	0.00	5.28	7.83	0.00	7.83	0.00	1.34	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
649	1.800	31.50	0.00	0.00	0.00	5.27	7.83	0.00	7.83	0.00	1.35	0.15	0.00	1.49	0.00	50.00	0.00	0.	0.00
650	1.600	31.50	0.00	0.00	0.00	5.27	7.84	0.00	7.84	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
651	1.400	31.50	0.00	0.00	0.00	5.26	7.84	0.00	7.84	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
652	1.200	31.50	0.00	0.00	0.00	5.26	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
653	1.000	31.50	0.00	0.00	0.00	5.25	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
654	0.800	31.50	0.00	0.00	0.00	5.25	7.85	0.00	7.85	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
655	0.600	31.50	0.00	0.00	0.00	5.25	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
656	0.400	31.50	0.00	0.00	0.00	5.24	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.50	0.00	50.00	0.00	0.	0.00
657	0.200	31.50	0.00	0.00	0.00	5.24	7.86	0.00	7.86	0.00	1.35	0.15	0.00	1.51	0.00	50.00	0.00	0.	0.00
658	0.000	31.50	0.00	0.00	0.00	5.24	7.87	0.00	7.87	0.00	1.36	0.15	0.00	1.51	0.00	50.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Black Lake Bayou Summer Projection

TRAVEL TIME = 4103.94 DAYS

MAXIMUM EFFLUENT = 74.18 PERCENT

FLOW = 0.11047 TO 0.76720 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00002 TO 0.03219 m/s
DEPTH = 0.63 TO 5.68 m
WIDTH = 8.52 TO ****** m

BOD DECAY = 0.09 TO 0.10 per day
NH3 DECAY = 0.17 TO 0.23 per day
SOD = 2.36 TO 8.04 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.17 TO 1.85 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 = 27.70 TO 31.50 deg C
DISSOLVED OXYGEN = 5.00 TO 8.44 mg/L

FINAL REPORT Praire LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 8 Praire Summer Projection

********** 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
549	HDWTR	0.20300	30.70	0.00	0.00	0.00	6.20	3.87	0.00	3.87	0.00	1.06	0.12	0.00	0.00	75.00	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 AREA m²	SURFACE AREA m²	PRISM m³	X-SECT VELO m/s	TIDAL m/s	TIDAL m²/s	DISPRSN m/s	MEAN
549	6.00	5.80	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
550	5.80	5.60	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
551	5.60	5.40	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
552	5.40	5.20	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
553	5.20	5.00	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
554	5.00	4.80	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
555	4.80	4.60	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
556	4.60	4.40	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
557	4.40	4.20	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
558	4.20	4.00	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
559	4.00	3.80	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
560	3.80	3.60	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
561	3.60	3.40	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
562	3.40	3.20	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
563	3.20	3.00	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
564	3.00	2.80	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
565	2.80	2.60	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
566	2.60	2.40	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
567	2.40	2.20	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
568	2.20	2.00	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
569	2.00	1.80	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
570	1.80	1.60	0.20300	0.0	0.00009	27.02	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
TOT					594.46			10426417.00	11457600.00							
AVG				0.0001			0.91	2604.00			2369.64					
CUM					594.46											

********** 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 *	ABOD#2 DECAY *	SOD *	BKGD SOD *	FULL DECAY 1/da	CORR 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 SETT 1/da	NCM	NCM
549	5.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
550	5.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
551	5.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
552	5.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
553	5.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
554	4.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
555	4.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
556	4.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
557	4.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
558	4.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
559	3.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	

560	3.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
561	3.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
562	3.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
563	3.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
564	2.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
565	2.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
566	2.400	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
567	2.200	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
568	2.000	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
569	1.800	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
570	1.600	7.47	1.07	0.13	0.00	0.00	0.00	0.00	0.00	2.98	2.98	2.98	0.02	0.00	0.22	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.88 0.08 0.00 0.00 0.00 0.00 0.00 1.52 0.02 0.00 0.11 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
549	5.800	30.70	0.00	0.00	0.00	6.42	6.97	0.00	6.97	0.00	1.06	0.12	0.00	1.18	0.00	75.00	0.00	0.	0.00
550	5.600	30.70	0.00	0.00	0.00	6.35	7.65	0.00	7.65	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
551	5.400	30.70	0.00	0.00	0.00	6.33	7.80	0.00	7.80	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
552	5.200	30.70	0.00	0.00	0.00	6.32	7.83	0.00	7.83	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
553	5.000	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
554	4.800	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
555	4.600	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
556	4.400	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
557	4.200	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
558	4.000	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
559	3.800	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
560	3.600	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
561	3.400	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
562	3.200	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
563	3.000	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
564	2.800	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
565	2.600	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
566	2.400	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
567	2.200	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
568	2.000	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
569	1.800	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00
570	1.600	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	1.19	0.00	75.00	0.00	0.	0.00

FINAL REPORT Praire LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 9 Bayou Baubeaux Summer Projection

********** 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 #/100mL	COLI	NCM
571	UPR RCH	0.20300	30.70	0.00	0.00	0.00	6.32	7.84	0.00	7.84	0.00	1.07	0.12	0.00	0.00	75.00	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
571	1.60	1.40	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
572	1.40	1.20	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
573	1.20	1.00	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
574	1.00	0.80	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
575	0.80	0.60	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
576	0.60	0.40	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
577	0.40	0.20	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
578	0.20	0.00	0.20300	0.0	0.00107	2.17	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.001
TOT					17.36				304512.00	97600.00					
AVG				0.0011			3.12	61.00			190.32				
CUM					611.83										

********** 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 *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE 1/da	NH3 SRCE *	NH3 PROD **	NH3 PROD **	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
571	1.400	7.46	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.02	0.00	0.23	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00				
572	1.200	7.44	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.02	0.00	0.23	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00				
573	1.000	7.43	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.02	0.00	0.23	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00				
574	0.800	7.42	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.02	0.00	0.23	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00				
575	0.600	7.40	0.31	0.13	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.02	0.00	0.23	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00				
576	0.400	7.39	0.32	0.13	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.03	0.00	0.23	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00				
577	0.200	7.38	0.32	0.14	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.03	0.00	0.23	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00				
578	0.000	7.37	0.32	0.14	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.03	0.00	0.23	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00				
AVG 20 DEG C RATE			0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.31			0.02	0.00	0.11	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

571	1.400	30.80	0.00	0.00	0.00	7.90	9.24	0.00	9.24	0.00	1.09	0.12	0.00	1.21	0.00	70.88	0.00	0.	0.00
572	1.200	30.90	0.00	0.00	0.00	8.42	10.32	0.00	10.32	0.00	1.10	0.12	0.00	1.22	0.00	66.75	0.00	0.	0.00
573	1.000	31.00	0.00	0.00	0.00	8.36	11.15	0.00	11.15	0.00	1.12	0.12	0.00	1.24	0.00	62.62	0.00	0.	0.00
574	0.800	31.10	0.00	0.00	0.00	7.97	11.78	0.00	11.78	0.00	1.13	0.12	0.00	1.25	0.00	58.50	0.00	0.	0.00
575	0.600	31.20	0.00	0.00	0.00	7.42	12.25	0.00	12.25	0.00	1.14	0.12	0.00	1.26	0.00	54.38	0.00	0.	0.00
576	0.400	31.30	0.00	0.00	0.00	6.79	12.61	0.00	12.61	0.00	1.15	0.12	0.00	1.27	0.00	50.25	0.00	0.	0.00
577	0.200	31.40	0.00	0.00	0.00	6.13	12.87	0.00	12.87	0.00	1.16	0.12	0.00	1.29	0.00	46.12	0.00	0.	0.00
578	0.000	31.50	0.00	0.00	0.00	5.46	13.06	0.00	13.06	0.00	1.17	0.13	0.00	1.30	0.00	42.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Praire Summer Projection

TRAVEL TIME = 611.83 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 0.20300 TO 0.20300 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00009 TO 0.00107 m/s
DEPTH = 0.91 TO 3.12 m
WIDTH = 61.00 TO ****** m

BOD DECAY = 0.13 TO 0.14 per day
NH3 DECAY = 0.22 TO 0.23 per day
SOD = 2.59 TO 2.98 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.31 TO 1.07 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 30.70 TO 31.50 deg C
DISSOLVED OXYGEN = 5.46 TO 8.42 mg/L

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and Summer Projection

REACH SUMMARY REPORT FOR Black Lake Bayou

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	Black Lake Bayou	125.60	111.60	14.00	8.32	0.14280	0.01947	0.749	8.66	5.042	0.064	2.458	28.41
2	Black Lake Bayou	111.60	77.40	34.20	14.08	0.28000	0.02811	0.745	9.85	9.887	0.092	2.444	32.31
3	Black Lake Bayou	77.40	50.40	27.00	11.83	0.34330	0.02642	0.982	12.00	12.122	0.087	3.223	39.36
4	Black Lake	50.40	35.80	14.60	918.06	0.38050	0.00018	1.520	1297.00	13.435	0.001	4.987	4255.46
5	Clear Lake	35.80	24.60	11.20	2827.88	0.20380	0.00005	4.970	1699.00	7.196	0.000	16.307	5574.42

6 Black Lake Bayou	24.60	18.00	6.60	234.19	0.20380	0.00033	5.680	110.00	7.196	0.001	18.636	360.91
7 Saline Bayou	18.00	16.00	2.00	25.63	0.56420	0.00090	5.680	110.00	19.922	0.003	18.636	360.91
10 Saline Bayou	16.00	10.80	5.20	18.13	0.76720	0.00332	4.570	50.56	27.090	0.011	14.994	165.89
11 Saline Bayou	10.80	0.00	10.80	45.81	0.76720	0.00273	4.570	61.52	27.090	0.009	14.994	201.85

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

REACH SUMMARY REPORT FOR Praire

RCH NO.	REACH NAME	BEGIN DIST	ENDING DIST	REACH LENGTH	TRAVEL TIME	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH
		km	km	km	days	m3/s	m/s	m	m	cfs	fps	ft	ft
8	Praire	6.00	1.60	4.40	594.46	0.20300	0.00009	0.910	2604.00	7.168	0.000	2.986	8543.72
9	Bayou Baubeaux	1.60	0.00	1.60	17.36	0.20300	0.00107	3.120	61.00	7.168	0.003	10.237	200.14

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1	24.	0.	-51.	0.	0.	0.	0.	0.	0.	25.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-55.4	55.4	0.00
2	51.	0.	-52.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-56.6	56.6	0.00
3	52.	0.	-53.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-57.7	57.7	0.00
4	53.	0.	-54.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-58.6	58.6	0.00
5	54.	0.	-55.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-59.4	59.4	0.00
6	55.	0.	-56.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-60.1	60.1	0.00
7	56.	0.	-56.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-60.7	60.7	0.00
8	56.	0.	-57.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-61.3	61.3	0.00
9	57.	0.	-58.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-61.9	61.9	0.00
10	58.	0.	-58.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-62.3	62.3	0.00
11	58.	0.	-58.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-62.8	62.8	0.00
12	58.	0.	-59.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-63.2	63.2	0.00
13	59.	0.	-59.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-63.6	63.6	0.00
14	59.	0.	-60.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-64.0	64.0	0.00
15	60.	0.	-60.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-64.3	64.4	0.00
16	60.	0.	-60.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-64.7	64.7	0.00
17	60.	0.	-61.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-65.0	65.0	0.00
18	61.	0.	-61.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-65.3	65.3	0.00
19	61.	0.	-61.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-65.7	65.7	0.00
20	61.	0.	-62.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-66.0	66.0	0.00
21	62.	0.	-62.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-66.3	66.3	0.00
22	62.	0.	-62.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-66.5	66.5	0.00
23	62.	0.	-62.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-66.8	66.8	0.00
24	62.	0.	-63.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-67.1	67.1	0.00
25	63.	0.	-63.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-67.4	67.4	0.00
26	63.	0.	-63.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-67.7	67.7	0.00
27	63.	0.	-64.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-68.0	68.0	0.00
28	64.	0.	-64.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-68.2	68.2	0.00
29	64.	0.	-64.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-68.5	68.5	0.00
30	64.	0.	-64.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-68.8	68.8	0.00
31	64.	0.	-65.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-69.0	69.0	0.00
32	65.	0.	-65.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-69.3	69.3	0.00
33	65.	0.	-65.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-69.6	69.6	0.00
34	65.	0.	-65.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-69.8	69.8	0.00
35	65.	0.	-66.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-70.1	70.1	0.00
36	66.	0.	-66.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-70.4	70.4	0.00
37	66.	0.	-66.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-70.6	70.6	0.00
38	66.	0.	-67.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-70.9	70.9	0.00
39	67.	0.	-67.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-71.2	71.2	0.00
40	67.	0.	-67.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-71.4	71.4	0.00
41	67.	0.	-67.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-71.7	71.7	0.00
42	67.	0.	-68.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-72.0	72.0	0.00
43	68.	0.	-68.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-72.2	72.2	0.00
44	68.	0.	-68.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-72.5	72.5	0.00
45	68.	0.	-68.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-72.8	72.8	0.00
46	68.	0.	-69.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-73.0	73.0	0.00

47	69.	0.	-69.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-73.3	73.3	0.00
48	69.	0.	-69.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-73.6	73.6	0.00
49	69.	0.	-69.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-73.8	73.8	0.00
50	69.	0.	-70.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-74.1	74.1	0.00
51	70.	0.	-70.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-74.4	74.4	0.00
52	70.	0.	-70.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-74.6	74.6	0.00
53	70.	0.	-70.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-74.9	74.9	0.00
54	70.	0.	-71.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-75.1	75.1	0.00
55	71.	0.	-71.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-75.4	75.4	0.00
56	71.	0.	-71.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-75.7	75.7	0.00
57	71.	0.	-71.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-75.9	75.9	0.00
58	71.	0.	-72.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-76.2	76.2	0.00
59	72.	0.	-72.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-76.5	76.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
60	72.	0.	-72.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-76.7	76.7	0.00
61	72.	0.	-73.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-77.0	77.0	0.00
62	73.	0.	-73.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-77.3	77.3	0.00
63	73.	0.	-73.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-77.5	77.5	0.00
64	73.	0.	-73.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-77.8	77.8	0.00
65	73.	0.	-74.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-78.1	78.1	0.00
66	74.	0.	-74.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-78.3	78.3	0.00
67	74.	0.	-74.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-78.6	78.6	0.00
68	74.	0.	-74.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-78.9	78.9	0.00
69	74.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-79.1	79.1	0.00
70	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-79.4	79.4	0.00
71	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.0	80.0	0.00
72	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.0	80.0	0.00
73	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-79.9	79.9	0.00
74	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.0	80.0	0.00
75	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.0	80.0	0.00
76	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.1	80.1	0.00
77	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.2	80.2	0.00
78	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.4	80.4	0.00
79	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.5	80.5	0.00
80	75.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.7	80.7	0.00
81	75.	0.	-76.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-80.9	80.9	0.00
82	76.	0.	-76.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-81.1	81.1	0.00
83	76.	0.	-76.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-81.3	81.3	0.00
84	76.	0.	-76.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-81.5	81.5	0.00
85	76.	0.	-76.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-81.7	81.7	0.00
86	76.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-81.9	81.9	0.00
87	77.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-82.2	82.2	0.00
88	77.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-82.4	82.4	0.00
89	77.	0.	-77.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-82.6	82.6	0.00
90	77.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-82.9	82.9	0.00
91	78.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-83.1	83.1	0.00
92	78.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-83.4	83.4	0.00
93	78.	0.	-78.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-83.6	83.6	0.00
94	78.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-83.8	83.8	0.00
95	79.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-84.1	84.1	0.00
96	79.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-84.3	84.3	0.00
97	79.	0.	-79.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-84.6	84.6	0.00
98	79.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-84.9	84.9	0.00
99	80.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-85.1	85.1	0.00
100	80.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-85.4	85.4	0.00
101	80.	0.	-80.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-85.6	85.6	0.00
102	80.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-85.9	85.9	0.00
103	81.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-86.1	86.1	0.00
104	81.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-86.4	86.4	0.00
105	81.	0.	-81.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-86.6	86.6	0.00

106	81.	0.	-82.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-86.9	86.9	0.00
107	82.	0.	-82.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-87.1	87.1	0.00
108	82.	0.	-82.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-87.4	87.4	0.00
109	82.	0.	-82.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-87.7	87.7	0.00
110	82.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-87.9	87.9	0.00
111	83.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-88.2	88.2	0.00
112	83.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-88.4	88.4	0.00
113	83.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-88.7	88.7	0.00
114	83.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-88.9	88.9	0.00
115	84.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-89.2	89.2	0.00
116	84.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-89.5	89.5	0.00
117	84.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-89.7	89.7	0.00
118	84.	0.	-85.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-90.0	90.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
119	85.	0.	-96.	0.	0.	0.	0.	0.	0.	11.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-101.6	101.6	0.00
120	96.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-102.0	102.0	0.00
121	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-102.4	102.4	0.00
122	97.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-102.8	102.8	0.00
123	97.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-103.2	103.2	0.00
124	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-103.6	103.6	0.00
125	98.	0.	-98.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-103.9	103.9	0.00
126	98.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-104.3	104.3	0.00
127	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-104.6	104.6	0.00
128	99.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-104.9	104.9	0.00
129	99.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-105.2	105.2	0.00
130	100.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-105.5	105.5	0.00
131	100.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-105.8	105.8	0.00
132	100.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-106.1	106.1	0.00
133	101.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-106.4	106.4	0.00
134	101.	0.	-101.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-106.7	106.7	0.00
135	101.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-107.0	107.0	0.00
136	102.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-107.3	107.3	0.00
137	102.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-107.6	107.6	0.00
138	102.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-107.9	107.9	0.00
139	102.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-108.1	108.1	0.00
140	103.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-108.4	108.4	0.00
141	103.	0.	-103.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-108.7	108.7	0.00
142	103.	0.	-111.	0.	0.	0.	0.	0.	0.	7.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-116.5	116.5	0.00
143	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-117.0	117.0	0.00
144	111.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-117.4	117.4	0.00
145	112.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-117.8	117.8	0.00
146	112.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-118.2	118.2	0.00
147	113.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-118.5	118.5	0.00
148	113.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-118.9	118.9	0.00
149	113.	0.	-114.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-119.2	119.2	0.00
150	114.	0.	-114.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-119.6	119.6	0.00
151	114.	0.	-114.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-119.9	119.9	0.00
152	114.	0.	-115.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-120.2	120.2	0.00
153	115.	0.	-115.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-120.5	120.5	0.00
154	115.	0.	-115.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-120.8	120.8	0.00
155	115.	0.	-116.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-121.1	121.1	0.00
156	116.	0.	-116.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-121.4	121.4	0.00
157	116.	0.	-116.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-121.7	121.7	0.00
158	116.	0.	-116.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-122.0	122.0	0.00
159	116.	0.	-117.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-122.3	122.3	0.00
160	117.	0.	-117.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-122.6	122.6	0.00
161	117.	0.	-117.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-122.9	122.9	0.00
162	117.	0.	-118.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-123.2	123.2	0.00
163	118.	0.	-118.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-123.4	123.4	0.00
164	118.	0.	-118.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-123.7	123.7	0.00

165	118.	0.	-118.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-124.0	124.0	0.00
166	118.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-124.3	124.3	0.00
167	119.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-124.6	124.6	0.00
168	119.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-124.8	124.8	0.00
169	119.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-125.1	125.1	0.00
170	119.	0.	-120.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-125.4	125.4	0.00
171	120.	0.	-120.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-125.6	125.6	0.00
172	120.	0.	-120.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-125.9	125.9	0.00
173	120.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-126.2	126.2	0.00
174	121.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-126.5	126.5	0.00
175	121.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-126.7	126.7	0.00
176	121.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-127.0	127.0	0.00
177	121.	0.	-122.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-127.3	127.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
178	122.	0.	-122.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-127.5	127.5	0.00
179	122.	0.	-122.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-127.8	127.8	0.00
180	122.	0.	-122.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-128.1	128.1	0.00
181	122.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-128.3	128.3	0.00
182	123.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-128.6	128.6	0.00
183	123.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-128.9	128.9	0.00
184	123.	0.	-124.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-129.1	129.1	0.00
185	124.	0.	-124.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-129.4	129.4	0.00
186	124.	0.	-124.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-129.7	129.7	0.00
187	124.	0.	-124.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-129.9	129.9	0.00
188	124.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-130.2	130.2	0.00
189	125.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-130.5	130.5	0.00
190	125.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-130.8	130.8	0.00
191	125.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-131.0	131.0	0.00
192	125.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-131.3	131.3	0.00
193	126.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-131.6	131.6	0.00
194	126.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-131.8	131.8	0.00
195	126.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-132.1	132.1	0.00
196	126.	0.	-127.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-132.4	132.4	0.00
197	127.	0.	-127.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-132.6	132.6	0.00
198	127.	0.	-127.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-132.9	132.9	0.00
199	127.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-133.2	133.2	0.00
200	128.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-133.4	133.4	0.00
201	128.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-133.7	133.7	0.00
202	128.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-134.0	134.0	0.00
203	128.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-134.2	134.2	0.00
204	129.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-134.5	134.5	0.00
205	129.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-134.8	134.8	0.00
206	129.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-135.0	135.0	0.00
207	129.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-135.3	135.3	0.00
208	130.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-135.6	135.6	0.00
209	130.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-135.8	135.8	0.00
210	130.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-136.1	136.1	0.00
211	130.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-136.4	136.4	0.00
212	131.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-136.6	136.6	0.00
213	131.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-136.9	136.9	0.00
214	131.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-137.2	137.2	0.00
215	131.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-137.4	137.4	0.00
216	132.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-137.7	137.7	0.00
217	132.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-138.0	138.0	0.00
218	132.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-138.3	138.3	0.00
219	133.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-138.5	138.5	0.00
220	133.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-138.8	138.8	0.00
221	133.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-139.1	139.1	0.00
222	133.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-139.3	139.3	0.00
223	134.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-139.6	139.6	0.00

224	134.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-139.9	139.9	0.00
225	134.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-140.1	140.1	0.00
226	134.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-140.4	140.4	0.00
227	135.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-140.7	140.7	0.00
228	135.	0.	-135.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-140.9	140.9	0.00
229	135.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-141.2	141.2	0.00
230	136.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-141.5	141.5	0.00
231	136.	0.	-144.	0.	0.	0.	0.	0.	0.	8.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-150.2	150.2	0.00
232	144.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-150.7	150.7	0.00
233	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-151.1	151.1	0.00
234	145.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-151.5	151.5	0.00
235	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-151.9	151.9	0.00
236	146.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-152.3	152.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-152.7	152.7	0.00
238	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-153.1	153.1	0.00
239	147.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-153.4	153.4	0.00
240	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-153.8	153.8	0.00
241	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-154.1	154.1	0.00
242	148.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-155.2	155.2	0.00
243	147.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-154.1	154.1	0.00
244	146.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-153.2	153.2	0.00
245	145.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-152.3	152.3	0.00
246	144.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.6	151.6	0.00
247	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.9	150.9	0.00
248	143.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.3	150.3	0.00
249	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.8	149.8	0.00
250	142.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.4	149.4	0.00
251	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.0	149.0	0.00
252	141.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.7	148.7	0.00
253	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.4	148.4	0.00
254	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.2	148.2	0.00
255	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.0	148.0	0.00
256	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.8	147.8	0.00
257	140.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.7	147.7	0.00
258	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.6	147.6	0.00
259	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.5	147.5	0.00
260	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.5	147.5	0.00
261	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.4	147.4	0.00
262	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.4	147.4	0.00
263	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.4	147.4	0.00
264	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.4	147.4	0.00
265	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.4	147.4	0.00
266	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.5	147.5	0.00
267	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.5	147.5	0.00
268	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.5	147.5	0.00
269	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.6	147.6	0.00
270	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.7	147.7	0.00
271	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.7	147.7	0.00
272	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.8	147.8	0.00
273	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-147.9	147.9	0.00
274	139.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.0	148.0	0.00
275	139.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.1	148.1	0.00
276	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.2	148.2	0.00
277	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.2	148.2	0.00
278	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.3	148.3	0.00
279	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.4	148.4	0.00
280	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.5	148.5	0.00
281	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.7	148.7	0.00
282	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.8	148.8	0.00

283	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-148.9	148.9	0.00
284	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.0	149.0	0.00
285	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.1	149.1	0.00
286	140.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.2	149.2	0.00
287	140.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.3	149.3	0.00
288	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.4	149.4	0.00
289	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.5	149.5	0.00
290	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.6	149.6	0.00
291	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.7	149.7	0.00
292	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-149.9	149.9	0.00
293	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.0	150.0	0.00
294	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.1	150.1	0.00
295	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.2	150.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
296	141.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.3	150.3	0.00
297	141.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.4	150.4	0.00
298	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.5	150.5	0.00
299	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.6	150.6	0.00
300	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.8	150.8	0.00
301	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-150.9	150.9	0.00
302	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.0	151.0	0.00
303	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.1	151.1	0.00
304	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.2	151.2	0.00
305	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.3	151.3	0.00
306	142.	0.	-142.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.4	151.4	0.00
307	142.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.5	151.5	0.00
308	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.6	151.7	0.00
309	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-8.	0.	0.	0.	2.	0.	0.	-151.8	151.8	0.00
310	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-151.9	151.9	0.00
311	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.0	152.0	0.00
312	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.1	152.1	0.00
313	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.2	152.2	0.00
314	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.3	152.3	0.00
315	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.4	152.4	0.00
316	143.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.5	152.5	0.00
317	143.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.6	152.6	0.00
318	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.7	152.7	0.00
319	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-152.8	152.8	0.00
320	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.0	153.0	0.00
321	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.1	153.1	0.00
322	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.2	153.2	0.00
323	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.3	153.3	0.00
324	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.4	153.4	0.00
325	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.5	153.5	0.00
326	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.6	153.6	0.00
327	144.	0.	-144.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.7	153.7	0.00
328	144.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.8	153.8	0.00
329	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-153.9	153.9	0.00
330	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.0	154.0	0.00
331	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.1	154.1	0.00
332	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.2	154.2	0.00
333	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.3	154.3	0.00
334	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.4	154.4	0.00
335	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.5	154.5	0.00
336	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.6	154.6	0.00
337	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.7	154.7	0.00
338	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.8	154.8	0.00
339	145.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-154.9	154.9	0.00
340	145.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.0	155.0	0.00
341	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.1	155.1	0.00

342	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.2	155.2	0.00
343	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.3	155.3	0.00
344	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.4	155.4	0.00
345	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.5	155.5	0.00
346	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.6	155.6	0.00
347	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.7	155.7	0.00
348	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.8	155.8	0.00
349	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-155.9	155.9	0.00
350	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.0	156.0	0.00
351	146.	0.	-146.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.1	156.1	0.00
352	146.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.2	156.2	0.00
353	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.3	156.3	0.00
354	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.3	156.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
355	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.4	156.4	0.00	
356	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.5	156.5	0.00	
357	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.6	156.6	0.00	
358	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.7	156.7	0.00	
359	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.8	156.8	0.00	
360	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-156.9	156.9	0.00	
361	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.0	157.0	0.00	
362	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.1	157.1	0.00	
363	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.2	157.2	0.00	
364	147.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.3	157.3	0.00	
365	147.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.4	157.4	0.00	
366	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.4	157.4	0.00	
367	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.5	157.5	0.00	
368	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.6	157.6	0.00	
369	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.7	157.7	0.00	
370	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.8	157.8	0.00	
371	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-157.9	157.9	0.00	
372	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-158.0	158.0	0.00	
373	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-158.1	158.1	0.00	
374	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-158.1	158.1	0.00	
375	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-158.2	158.2	0.00	
376	148.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-158.3	158.3	0.00	
377	148.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	583.	-102.	-47.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1066.0	1066.2	0.19	
378	153.	0.	-151.	0.	0.	0.	0.	0.	0.	0.	602.	-129.	-47.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1090.4	1090.6	0.20	
379	151.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	614.	-140.	-46.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1100.4	1100.6	0.20	
380	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	619.	-145.	-46.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1104.6	1104.8	0.20	
381	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	622.	-148.	-46.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1106.4	1106.6	0.20	
382	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1107.2	1107.4	0.20	
383	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1107.6	1107.8	0.20	
384	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1107.8	1108.0	0.20	
385	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1108.0	1108.2	0.20	
386	150.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1108.2	1108.4	0.20	
387	150.	0.	-151.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1108.3	1108.5	0.20	
388	151.	0.	-152.	0.	0.	0.	0.	0.	0.	1.	622.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1109.5	1109.7	0.20	
389	152.	0.	-152.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1109.8	1110.0	0.20	
390	152.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1110.1	1110.3	0.20	
391	153.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1110.3	1110.5	0.20	
392	153.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-45.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1110.5	1110.7	0.20	
393	153.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1110.7	1110.9	0.20	
394	153.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1110.9	1111.1	0.20	
395	153.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1111.1	1111.3	0.20	
396	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1111.3	1111.5	0.20	
397	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1111.5	1111.7	0.20	
398	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1111.7	1111.9	0.20	
399	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1111.9	1112.1	0.20	
400	154.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1112.1	1112.3	0.20	

401	155.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1112.3	1112.5	0.20
402	155.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1112.5	1112.7	0.20
403	155.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1112.7	1112.9	0.20
404	155.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1112.9	1113.1	0.20
405	155.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1113.1	1113.3	0.20
406	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1113.3	1113.5	0.20
407	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1113.5	1113.7	0.20
408	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1113.7	1113.9	0.20
409	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1113.9	1114.1	0.20
410	156.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1114.1	1114.3	0.20
411	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1114.3	1114.5	0.20
412	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1114.5	1114.7	0.20
413	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1114.7	1114.9	0.20

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT OUT	TOT IN
414	157.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1114.9	1115.1	0.20
415	157.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1115.1	1115.3	0.20
416	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1115.3	1115.5	0.20
417	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1115.5	1115.7	0.20
418	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1115.7	1115.9	0.20
419	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1115.9	1116.1	0.20
420	158.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1116.2	1116.4	0.20
421	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1116.4	1116.6	0.20
422	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1116.6	1116.8	0.20
423	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1116.8	1117.0	0.20
424	159.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1117.0	1117.2	0.20
425	159.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1117.2	1117.4	0.20
426	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1117.4	1117.6	0.20
427	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1117.6	1117.8	0.20
428	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1117.8	1118.0	0.20
429	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1118.0	1118.2	0.20
430	160.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1118.2	1118.4	0.20
431	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1118.4	1118.6	0.20
432	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1118.6	1118.8	0.20
433	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1118.8	1119.0	0.20
434	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1119.0	1119.2	0.20
435	161.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1119.2	1119.4	0.20
436	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1119.4	1119.6	0.20
437	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1119.6	1119.8	0.20
438	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1119.8	1120.0	0.20
439	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1120.0	1120.2	0.20
440	162.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1120.2	1120.4	0.20
441	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1120.4	1120.6	0.20
442	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1120.6	1120.8	0.20
443	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1120.8	1121.0	0.20
444	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1121.0	1121.2	0.20
445	163.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1121.2	1121.4	0.20
446	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1121.4	1121.6	0.20
447	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1121.6	1121.8	0.20
448	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1121.8	1122.0	0.20
449	164.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	623.	-149.	-44.	0.	0.	-764.	0.	0.	0.	335.	0.	0.	-1122.0	1122.2	0.20
450	164.	0.	-200.	0.	0.	0.	0.	0.	0.	0.	456.	-640.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2056.0	2056.3	0.26
451	200.	0.	-204.	0.	0.	0.	0.	0.	0.	0.	424.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2059.5	2059.8	0.22
452	204.	0.	-204.	0.	0.	0.	0.	0.	0.	0.	421.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2060.1	2060.4	0.21
453	204.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2060.5	2060.7	0.21
454	205.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2060.7	2060.9	0.21
455	205.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2061.0	2061.2	0.21
456	205.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2061.2	2061.5	0.21
457	205.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2061.5	2061.7	0.21
458	206.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2061.8	2062.0	0.21
459	206.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2062.0	2062.2	0.21

460	206.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2062.3	2062.5	0.21
461	207.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2062.5	2062.7	0.21
462	207.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2062.8	2063.0	0.21
463	207.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2063.0	2063.2	0.21
464	207.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2063.3	2063.5	0.21
465	208.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2063.5	2063.7	0.21
466	208.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2063.8	2064.0	0.21
467	208.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2064.0	2064.2	0.21
468	208.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2064.3	2064.5	0.21
469	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2064.5	2064.7	0.21
470	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2064.8	2065.0	0.21
471	209.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2065.0	2065.2	0.21
472	209.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2065.3	2065.5	0.21

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD DECA	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT OUT	TOT IN
473	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2065.5	2065.7	0.21
474	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2065.8	2066.0	0.21
475	210.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2066.0	2066.2	0.21
476	210.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2066.3	2066.5	0.21
477	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2066.5	2066.7	0.21
478	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2066.8	2067.0	0.21
479	211.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2067.0	2067.3	0.21
480	211.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2067.3	2067.5	0.21
481	212.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2067.5	2067.8	0.21
482	212.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2067.8	2068.0	0.21
483	212.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2068.0	2068.3	0.21
484	212.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2068.3	2068.5	0.21
485	213.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2068.5	2068.8	0.21
486	213.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2068.8	2069.0	0.21
487	213.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2069.0	2069.3	0.21
488	213.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2069.3	2069.5	0.21
489	214.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2069.6	2069.8	0.21
490	214.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2069.8	2070.0	0.21
491	214.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2070.1	2070.3	0.21
492	214.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2070.3	2070.5	0.21
493	215.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2070.6	2070.8	0.21
494	215.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2070.8	2071.0	0.21
495	215.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2071.1	2071.3	0.21
496	215.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2071.3	2071.5	0.21
497	216.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2071.6	2071.8	0.21
498	216.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2071.8	2072.0	0.21
499	216.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2072.1	2072.3	0.21
500	216.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2072.3	2072.5	0.21
501	217.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2072.6	2072.8	0.21
502	217.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2072.8	2073.0	0.21
503	217.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2073.1	2073.3	0.21
504	217.	0.	-218.	0.	0.	0.	0.	0.	0.	0.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2073.3	2073.5	0.21
505	218.	0.	-109.	0.	0.	0.	0.	0.	0.	0.	-109.	420.	-641.	-192.	0.	0.	-1023.	0.	0.	0.	1436.	0.	0.	-2073.6	2073.8	0.21
506	109.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-47.	-14.	0.	0.	-97.	0.	0.	0.	108.	0.	0.	-257.1	257.2	0.04
507	99.	0.	-95.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-47.	-14.	0.	0.	-97.	0.	0.	0.	111.	0.	0.	-253.5	253.6	0.04
508	95.	0.	-95.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-47.	-14.	0.	0.	-97.	0.	0.	0.	113.	0.	0.	-252.9	253.0	0.05
509	95.	0.	-96.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-47.	-14.	0.	0.	-97.	0.	0.	0.	115.	0.	0.	-253.7	253.7	0.04
510	96.	0.	-97.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-47.	-14.	0.	0.	-97.	0.	0.	0.	117.	0.	0.	-255.0	255.1	0.04
511	97.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-47.	-14.	0.	0.	-97.	0.	0.	0.	120.	0.	0.	-256.7	256.7	0.04
512	99.	0.	-100.	0.	0.	0.	0.	0.	0.	0.	0.	38.	-47.	-14.	0.	0.	-97.	0.	0.	0.	122.	0.	0.	-258.4	258.5	0.03
513	100.	0.	-102.	0.	0.	0.	0.	0.	0.	0.	0.	36.	-47.	-14.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-260.2	260.3	0.03
514	102.	0.	-104.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-47.	-14.	0.	0.	-97.	0.	0.	0.	126.	0.	0.	-262.1	262.1	0.03
515	104.	0.	-106.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-47.	-14.	0.	0.	-97.	0.	0.	0.	129.	0.	0.	-263.9	263.9	0.02
516	106.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-47.	-14.	0.	0.	-97.	0.	0.	0.	131.	0.	0.	-265.8	265.8	0.02
517	108.	0.	-110.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-47.	-14.	0.	0.	-97.	0.	0.	0.	133.	0.	0.	-267.6	267.6	0.01
518	110.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-47.	-14.	0.	0.	-97.	0.	0.	0.	136.	0.	0.	-269.5	269.5	0.01

519	112.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-47.	-14.	0.	0.	-97.	0.	0.	0.	138.	0.	0.	-271.3	271.3	0.01
520	113.	0.	-115.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-47.	-14.	0.	0.	-97.	0.	0.	0.	140.	0.	0.	-273.2	273.2	0.01
521	115.	0.	-117.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-47.	-14.	0.	0.	-97.	0.	0.	0.	142.	0.	0.	-275.0	275.0	0.00
522	117.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-47.	-14.	0.	0.	-97.	0.	0.	0.	145.	0.	0.	-276.9	276.9	0.00
523	119.	0.	-121.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-47.	-14.	0.	0.	-97.	0.	0.	0.	147.	0.	0.	-278.7	278.7	0.00
524	121.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-47.	-14.	0.	0.	-97.	0.	0.	0.	149.	0.	0.	-280.6	280.6	-0.01
525	123.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-47.	-14.	0.	0.	-97.	0.	0.	0.	151.	0.	0.	-282.4	282.4	-0.01
526	125.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-47.	-14.	0.	0.	-97.	0.	0.	0.	154.	0.	0.	-284.3	284.3	-0.01
527	126.	0.	-128.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-47.	-14.	0.	0.	-97.	0.	0.	0.	156.	0.	0.	-286.2	286.1	-0.01
528	128.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-47.	-14.	0.	0.	-97.	0.	0.	0.	158.	0.	0.	-288.0	288.0	-0.02
529	130.	0.	-132.	0.	0.	0.	0.	0.	0.	0.	0.	-1.	-47.	-14.	0.	0.	-97.	0.	0.	0.	160.	0.	0.	-290.4	290.4	-0.02
530	132.	0.	-134.	0.	0.	0.	0.	0.	0.	0.	0.	-3.	-47.	-14.	0.	0.	-97.	0.	0.	0.	163.	0.	0.	-294.5	294.5	-0.02
531	134.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	-5.	-47.	-14.	0.	0.	-97.	0.	0.	0.	165.	0.	0.	-298.6	298.6	-0.02

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
532	136.	0.	-137.	0.	0.	0.	0.	0.	0.	0.	0.	-7.	-47.	-14.	0.	0.	-97.	0.	0.	0.	167.	0.	0.	-302.7	302.7	-0.03
533	137.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	0.	-10.	-47.	-14.	0.	0.	-97.	0.	0.	0.	169.	0.	0.	-306.8	306.8	-0.03
534	139.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	-12.	-47.	-14.	0.	0.	-97.	0.	0.	0.	172.	0.	0.	-310.9	310.9	-0.03
535	141.	0.	-143.	0.	0.	0.	0.	0.	0.	0.	0.	-14.	-47.	-14.	0.	0.	-97.	0.	0.	0.	174.	0.	0.	-315.0	315.0	-0.03
536	143.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	-16.	-47.	-14.	0.	0.	-97.	0.	0.	0.	176.	0.	0.	-319.1	319.1	-0.03
537	145.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	0.	-19.	-47.	-14.	0.	0.	-97.	0.	0.	0.	178.	0.	0.	-323.2	323.2	-0.03
538	147.	0.	-149.	0.	0.	0.	0.	0.	0.	0.	0.	-21.	-47.	-14.	0.	0.	-97.	0.	0.	0.	181.	0.	0.	-327.3	327.3	-0.03
539	149.	0.	-287.	0.	0.	0.	0.	0.	0.	147.	0.	34.	-42.	-17.	0.	0.	-169.	0.	0.	0.	186.	0.	0.	-514.8	514.9	0.03
540	287.	0.	-279.	0.	0.	0.	0.	0.	0.	0.	0.	37.	-48.	-17.	0.	0.	-170.	0.	0.	0.	190.	0.	0.	-514.1	514.2	0.04
541	279.	0.	-273.	0.	0.	0.	0.	0.	0.	0.	0.	39.	-54.	-16.	0.	0.	-171.	0.	0.	0.	195.	0.	0.	-514.0	514.1	0.04
542	273.	0.	-269.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-58.	-16.	0.	0.	-172.	0.	0.	0.	200.	0.	0.	-514.9	514.9	0.04
543	269.	0.	-267.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-61.	-16.	0.	0.	-172.	0.	0.	0.	206.	0.	0.	-516.7	516.7	0.05
544	267.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-64.	-16.	0.	0.	-173.	0.	0.	0.	211.	0.	0.	-519.5	519.6	0.05
545	266.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-66.	-17.	0.	0.	-174.	0.	0.	0.	216.	0.	0.	-523.3	523.4	0.05
546	266.	0.	-268.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-68.	-17.	0.	0.	-175.	0.	0.	0.	221.	0.	0.	-528.1	528.1	0.05
547	268.	0.	-272.	0.	0.	0.	0.	0.	0.	0.	0.	39.	-69.	-17.	0.	0.	-176.	0.	0.	0.	226.	0.	0.	-533.7	533.8	0.04
548	272.	0.	-276.	0.	0.	0.	0.	0.	0.	0.	0.	37.	-71.	-17.	0.	0.	-177.	0.	0.	0.	231.	0.	0.	-540.1	540.1	0.04
579	276.	96.	-359.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-35.	-6.	0.	0.	-77.	0.	0.	0.	86.	0.	0.	-477.1	477.1	0.02
580	359.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-34.	-6.	0.	0.	-77.	0.	0.	0.	87.	0.	0.	-467.1	467.1	0.02
581	350.	0.	-343.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-33.	-6.	0.	0.	-77.	0.	0.	0.	87.	0.	0.	-459.5	459.5	0.02
582	343.	0.	-339.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-32.	-6.	0.	0.	-77.	0.	0.	0.	88.	0.	0.	-454.1	454.1	0.02
583	339.	0.	-336.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-32.	-6.	0.	0.	-77.	0.	0.	0.	89.	0.	0.	-450.4	450.4	0.02
584	336.	0.	-334.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-31.	-6.	0.	0.	-77.	0.	0.	0.	89.	0.	0.	-448.3	448.3	0.03
585	334.	0.	-334.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-30.	-6.	0.	0.	-77.	0.	0.	0.	90.	0.	0.	-447.4	447.4	0.03
586	334.	0.	-335.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-30.	-6.	0.	0.	-77.	0.	0.	0.	91.	0.	0.	-447.7	447.7	0.03
587	335.	0.	-336.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-77.	0.	0.	0.	91.	0.	0.	-448.8	448.8	0.02
588	336.	0.	-339.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-77.	0.	0.	0.	92.	0.	0.	-450.7	450.7	0.02
589	339.	0.	-342.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-28.	-6.	0.	0.	-77.	0.	0.	0.	92.	0.	0.	-453.3	453.3	0.02
590	342.	0.	-345.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-28.	-6.	0.	0.	-77.	0.	0.	0.	93.	0.	0.	-456.4	456.4	0.02
591	345.	0.	-349.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-28.	-6.	0.	0.	-77.	0.	0.	0.	94.	0.	0.	-459.9	459.9	0.02
592	349.	0.	-353.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-27.	-6.	0.	0.	-77.	0.	0.	0.	94.	0.	0.	-463.8	463.8	0.02
593	353.	0.	-358.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-27.	-6.	0.	0.	-77.	0.	0.	0.	95.	0.	0.	-468.0	468.0	0.02
594	358.	0.	-363.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-27.	-6.	0.	0.	-77.	0.	0.	0.	96.	0.	0.	-472.4	472.4	0.02
595	363.	0.	-367.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-26.	-6.	0.	0.	-77.	0.	0.	0.	96.	0.	0.	-477.0	477.0	0.02
596	367.	0.	-373.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-26.	-6.	0.	0.	-77.	0.	0.	0.	97.	0.	0.	-481.8	481.8	0.02
597	373.	0.	-378.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-26.	-6.	0.	0.	-77.	0.	0.	0.	97.	0.	0.	-486.7	486.7	0.01
598	378.	0.	-383.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-25.	-6.	0.	0.	-77.	0.	0.	0.	98.	0.	0.	-491.7	491.7	0.01
599	383.	0.	-388.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-25.	-6.	0.	0.	-77.	0.	0.	0.	99.	0.	0.	-496.7	496.7	0.01
600	388.	0.	-393.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-25.	-6.	0.	0.	-77.	0.	0.	0.	99.	0.	0.	-501.8	501.8	0.01
601	393.	0.	-399.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-25.	-6.	0.	0.	-77.	0.	0.	0.	100.	0.	0.	-506.9	506.9	0.01
602	399.	0.	-404.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-25.	-6.	0.	0.	-77.	0.	0.	0.	101.	0.	0.	-512.1	512.1	0.01
603	404.	0.	-409.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-24.	-6.	0.	0.	-77.	0.	0.	0.	101.	0.	0.	-517.2	517.2	0.01
604	409.	0.	-415.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-24.	-6.	0.	0.	-77.	0.	0.	0.	102.	0.	0.	-522.4	522.4	0.01
605	415.	0.	-416.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-31.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-551.8	551.8	0.01
606	416.	0.	-417.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-32.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-553.5	553.5	0.01
607	417.	0.	-417.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-33.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-554.1	554.1	0.01

608	417.	0.	-415.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-34.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-553.9	553.9	0.01
609	415.	0.	-414.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-35.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-553.0	553.0	0.01
610	414.	0.	-411.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-36.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-551.7	551.7	0.01
611	411.	0.	-409.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-36.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-550.0	550.0	0.01
612	409.	0.	-406.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-37.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-548.0	548.0	0.01
613	406.	0.	-403.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-38.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-545.8	545.8	0.01
614	403.	0.	-401.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-38.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-543.5	543.5	0.01
615	401.	0.	-398.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-39.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-541.2	541.2	0.01
616	398.	0.	-395.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-39.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-538.8	538.8	0.01
617	395.	0.	-392.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-40.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-536.4	536.4	0.01
618	392.	0.	-389.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-40.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-534.1	534.1	0.01
619	389.	0.	-387.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-41.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-531.8	531.8	0.01
620	387.	0.	-384.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-41.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-529.6	529.6	0.02

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
621	384.	0.	-382.	0.	0.	0.	0.	0.	0.	0.	20.	-41.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-527.5	527.5	0.02
622	382.	0.	-379.	0.	0.	0.	0.	0.	0.	0.	20.	-42.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-525.5	525.5	0.02
623	379.	0.	-377.	0.	0.	0.	0.	0.	0.	0.	20.	-42.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-523.5	523.5	0.02
624	377.	0.	-375.	0.	0.	0.	0.	0.	0.	0.	21.	-42.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-521.7	521.7	0.02
625	375.	0.	-373.	0.	0.	0.	0.	0.	0.	0.	21.	-42.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-519.9	519.9	0.02
626	373.	0.	-371.	0.	0.	0.	0.	0.	0.	0.	22.	-43.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-518.3	518.3	0.02
627	371.	0.	-369.	0.	0.	0.	0.	0.	0.	0.	22.	-43.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-516.7	516.7	0.02
628	369.	0.	-367.	0.	0.	0.	0.	0.	0.	0.	22.	-43.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-515.2	515.3	0.02
629	367.	0.	-366.	0.	0.	0.	0.	0.	0.	0.	22.	-43.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-513.9	513.9	0.02
630	366.	0.	-364.	0.	0.	0.	0.	0.	0.	0.	23.	-43.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-512.6	512.6	0.02
631	364.	0.	-363.	0.	0.	0.	0.	0.	0.	0.	23.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-511.4	511.4	0.02
632	363.	0.	-362.	0.	0.	0.	0.	0.	0.	0.	23.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-510.2	510.2	0.02
633	362.	0.	-361.	0.	0.	0.	0.	0.	0.	0.	23.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-509.2	509.2	0.02
634	361.	0.	-360.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-508.2	508.2	0.02
635	360.	0.	-358.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-507.2	507.3	0.02
636	358.	0.	-357.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-506.4	506.4	0.02
637	357.	0.	-357.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-505.6	505.6	0.02
638	357.	0.	-356.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-504.8	504.8	0.03
639	356.	0.	-355.	0.	0.	0.	0.	0.	0.	0.	24.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-504.1	504.1	0.03
640	355.	0.	-354.	0.	0.	0.	0.	0.	0.	0.	25.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-503.5	503.5	0.03
641	354.	0.	-354.	0.	0.	0.	0.	0.	0.	0.	25.	-44.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-502.9	502.9	0.03
642	354.	0.	-353.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-502.3	502.3	0.03
643	353.	0.	-352.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-501.8	501.8	0.03
644	352.	0.	-352.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-501.3	501.3	0.03
645	352.	0.	-351.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-500.8	500.9	0.03
646	351.	0.	-351.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-500.4	500.4	0.03
647	351.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-500.0	500.0	0.03
648	350.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-499.7	499.7	0.03
649	350.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-499.3	499.3	0.03
650	350.	0.	-349.	0.	0.	0.	0.	0.	0.	0.	25.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-499.0	499.0	0.03
651	349.	0.	-349.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-498.7	498.7	0.03
652	349.	0.	-349.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-498.4	498.5	0.03
653	349.	0.	-348.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-498.2	498.2	0.03
654	348.	0.	-348.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-497.9	498.0	0.03
655	348.	0.	-348.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-497.7	497.7	0.03
656	348.	0.	-348.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-497.5	497.5	0.03
657	348.	0.	-347.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-497.3	497.3	0.03
658	347.	0.	-347.	0.	0.	0.	0.	0.	0.	0.	26.	-45.	-8.	0.	0.	-97.	0.	0.	0.	124.	0.	0.	-497.1	497.2	0.03

DISSOLVED OXYGEN LOADING FOR REACH 2: Praire

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
549	109.	0.	-113.	0.	0.	0.	0.	0.	0.	0.	530.	-432.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2149.3	2149.4	0.03	
550	113.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	567.	-474.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2190.5	2190.5	0.04	
551	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	578.	-483.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2199.5	2199.6	0.04	
552	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	580.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2201.6	2201.6	0.04	
553	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	580.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.0	2202.1	0.05	
554	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.2	0.05	
555	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.2	0.05	
556	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
557	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
558	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
559	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
560	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
561	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
562	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
563	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
564	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
565	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
566	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.05	
567	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.04	
568	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.04	
569	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.04	
570	111.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	581.	-486.	-54.	0.	0.	-1551.	0.	0.	0.	1511.	0.	0.	-2202.2	2202.3	0.04	
571	111.	0.	-139.	0.	0.	0.	0.	0.	0.	0.	-5.	-46.	-4.	0.	0.	-32.	0.	0.	0.	115.	0.	0.	-226.1	226.1	-0.01	
572	139.	0.	-148.	0.	0.	0.	0.	0.	0.	0.	-12.	-52.	-5.	0.	0.	-32.	0.	0.	0.	109.	0.	0.	-247.5	247.5	-0.01	
573	148.	0.	-147.	0.	0.	0.	0.	0.	0.	0.	-11.	-56.	-5.	0.	0.	-32.	0.	0.	0.	103.	0.	0.	-250.4	250.4	-0.01	
574	147.	0.	-140.	0.	0.	0.	0.	0.	0.	0.	-7.	-60.	-5.	0.	0.	-32.	0.	0.	0.	96.	0.	0.	-243.0	243.0	-0.01	
575	140.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	-62.	-5.	0.	0.	-32.	0.	0.	0.	90.	0.	0.	-229.9	229.8	-0.01	
576	130.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	7.	-65.	-5.	0.	0.	-33.	0.	0.	0.	84.	0.	0.	-220.9	220.9	0.00	
577	119.	0.	-108.	0.	0.	0.	0.	0.	0.	0.	15.	-66.	-5.	0.	0.	-33.	0.	0.	0.	77.	0.	0.	-211.2	211.2	0.01	
578	108.	0.	-96.	0.	0.	0.	0.	0.	0.	0.	23.	-67.	-5.	0.	0.	-33.	0.	0.	0.	70.	0.	0.	-201.0	201.0	0.01	

LA-QUAL Summer Projection for Black Lake Bayou, Clear Lake, and
Summer Projection

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	0.257	133.2	75.8	0.0	22.8	2.8	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	0.237	106.4	27.3	0.0	27.3	2.7	1.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.476	200.1	83.6	0.0	45.0	7.1	2.1	0.0	0.0	0.0
WITHDRAWLS	-0.203	-108.7	-67.8	0.0	-18.6	-2.1	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-0.767	-347.1	-521.4	0.0	-89.9	-10.0	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	63420.6	0.0	3836.0				0.0	
NATURAL REAERATION			86162.4							
DAM REAERATION			0.0							
BACKGROUND SOD			-161907.4							
BOD#1 DECAY			-63018.1	-63018.1						
BOD#1 SETTLING			0.0	0.0						
ANAEROBIC BOD#1 DECAY				0.0						
BOD#2 DECAY			0.0	0.0						
BOD#2 SETTLING			0.0	0.0						
ANAEROBIC BOD#2 DECAY					0.0					
ORG-N DECAY			0.0		-3822.7	3822.7				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-16524.8				-3816.3	3816.3			
BACKGROUND NH3 SOURCE							0.0			
OTHER DENITRIFICATION								0.0		
PHOSPHORUS SOURCE									0.0	
ALGAE PHOTOSYNTHESIS			155333.5				0.0	-14935.9	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	0.970	241935.7	63607.3	0.0	3931.2	3835.3	3819.4	0.0	0.0	0.0
TOTAL OUTPUTS	-0.970	-241906.1	-63607.3	0.0	-3931.2	-3828.4	-14935.9	0.0	0.0	0.0
NET CONVERGENCE ERROR		0.000	29.6	0.0	0.0	0.0	6.9	-11116.5	0.0	0.0	0.0

.....EXECUTION COMPLETED

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is D:\Black Lake winter proj.txt
Output produced at 17:56 on 10/17/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
TITLE02        Winter Projection
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        ALGAE OXYGEN PROD                 =        0.02600 mg O/ug chl a/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

THETA       NH3 DECA       1.07000
ENDATA04
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$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        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  BL  Black Lake Bayou              125.60  TO  111.60  0.2000   14.00     70      1    70
REACH ID    2  BL  Black Lake Bayou              111.60  TO   77.40  0.2000   34.20    171     71   241
REACH ID    3  BL  Black Lake Bayou               77.40  TO   50.40  0.2000   27.00    135    242   376
REACH ID    4  BL  Black Lake                   50.40  TO   35.80  0.2000   14.60     73    377   449
REACH ID    5  CL  Clear Lake                   35.80  TO   24.60  0.2000   11.20     56    450   505
REACH ID    6  PA  Black Lake Bayou              24.60  TO   18.00  0.2000    6.60     33    506   538
REACH ID    7  BB  Saline Bayou                 18.00  TO   16.00  0.2000    2.00     10    539   548
REACH ID    8  BL  Praire                      6.00  TO    1.60  0.2000    4.40     22    549   570
REACH ID    9  SB  Bayou Baubeaux                1.60  TO    0.00  0.2000    1.60      8    571   578
REACH ID   10  SB  Saline Bayou                16.00  TO   10.80  0.2000    5.20     26    579   604
REACH ID   11  SB  Saline Bayou                10.80  TO    0.00  0.2000   10.80     54    605   658
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  BL     11.100      0.120      0.000      1.900      0.450      0.000    0.00000   0.000
HYDR-1      2  BL     11.900      0.120      0.000      1.510      0.450      0.000    0.00000   0.000
HYDR-1      3  BL     13.800      0.120      0.000      1.660      0.450      0.000    0.00000   0.000
HYDR-1      4  BL      0.000      0.000   1297.000      0.000      0.000      1.520    0.00000   0.000
HYDR-1      5  CL      0.000      0.000   1699.000      0.000      0.000      4.970    0.00000   0.000
HYDR-1      6  PA      0.000      0.000    110.000      0.000      0.000      5.680    0.00000   0.000
HYDR-1      7  BB      0.000      0.000    110.000      0.000      0.000      5.680    0.00000   0.000
HYDR-1      8  BL      0.000      0.000   2604.000      0.000      0.000      0.910    0.00000   0.000
HYDR-1      9  SB      0.000      0.000     61.000      0.000      0.000      3.120    0.00000   0.000
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HYDR-1     10  SB     0.000     0.000    50.560     0.000     0.000     4.570    0.00000  0.000
HYDR-1     11  SB     0.000     0.000    61.520     0.000     0.000     4.570    0.00000  0.000
ENDATA09

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

CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                RANGE      "A"         "B"         "C"         "D"

ENDATA10

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

CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2    PHOS    CHL A    MACRO

INITIAL        1  BL     20.10     0.00     8.17     0.05     0.00     0.00    20.00     0.00
INITIAL        2  BL     20.10     0.00     8.17     0.06     0.00     0.00    20.00     0.00
INITIAL        3  BL     20.10     0.00     8.17     0.10     0.00     0.00    20.00     0.00
INITIAL        4  BL     21.10     0.00     8.01     0.05     0.00     0.00    20.00     0.00
INITIAL        5  CL     21.10     0.00     8.01     0.05     0.00     0.00    20.00     0.00
INITIAL        6  PA     21.10     0.00     8.01     0.05     0.00     0.00    20.00     0.00
INITIAL        7  BB     21.70     0.00     7.92     0.05     0.00     0.00    34.00     0.00
INITIAL        8  BL     21.10     0.00     8.01     0.05     0.00     0.00    75.00     0.00
INITIAL        9  SB     21.10     0.00     8.01     0.05     0.00     0.00    75.00     0.00
INITIAL       10  SB     21.70     0.00     7.92     0.05     0.00     0.00    42.00     0.00
INITIAL       11  SB     21.70     0.00     7.92     0.05     0.00     0.00    50.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                    BOD    ANAER                BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2  BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                  g/m²/d  per day    m/d         per day  per day    m/d         per day

COEFF-1    1  BL  15 LOUISIANA    0.000   0.000   0.000   1.936   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    2  BL  15 LOUISIANA    0.000   0.000   0.000   2.156   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    3  BL  15 LOUISIANA    0.000   0.000   0.000   2.640   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    4  BL  20 K2=a/D       0.800   0.000   0.000   1.936   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    5  CL  20 K2=a/D       0.800   0.000   0.000   1.980   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    6  PA  20 K2=a/D       0.800   0.000   0.000   2.893   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    7  BB  20 K2=a/D       0.800   0.000   0.000   4.750   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    8  BL  20 K2=a/D       0.800   0.000   0.000   1.958   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1    9  SB  20 K2=a/D       0.800   0.000   0.000   1.691   0.080   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   10  SB  20 K2=a/D       0.800   0.000   0.000   4.500   0.060   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   11  SB  20 K2=a/D       0.800   0.000   0.000   4.650   0.060   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
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COEFF-2        1  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        2  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        3  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        4  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        5  CL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        6  PA     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        7  BB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        8  BL     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2        9  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       10  SB     0.020    0.000    0.000     0.110    0.000    0.000    0.000
COEFF-2       11  SB     0.020    0.000    0.000     0.110    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  BL     0.00000    0.13890    20.10    0.00     0.00     0.00   0.00992   0.00000
INCR-1         2  BL     0.00000    0.33930    20.10    0.00     0.00     0.00   0.00992   0.00000
INCR-1         3  BL     0.00000    0.26790    20.10    0.00     0.00     0.00   0.00992   0.00000
INCR-1         4  BL     0.00000    0.14480    21.10    0.00     0.00     0.00   0.00992   0.00000
INCR-1         5  CL     0.00000    0.11110    21.10    0.00     0.00     0.00   0.00992   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  BL      5.13     1.76     1.76     0.18     0.05     0.00
INCR-2         2  BL      5.13     1.76     1.76     0.18     0.05     0.00
INCR-2         3  BL      5.13     1.76     1.76     0.18     0.05     0.00
INCR-2         4  BL      4.99     1.78     1.78     0.18     0.05     0.00
INCR-2         5  CL      4.99     1.78     1.78     0.18     0.05     0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
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 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  BL       17.60      1.32      0.00      0.00      0.00      0.00
NONPOINT        2  BL       52.80      2.02      0.00      0.00      0.00      0.00
NONPOINT        3  BL       26.40     18.00      0.00      0.00      0.00      0.00
NONPOINT        4  BL    14062.00    970.00      0.00      0.00      0.00      0.00
NONPOINT        5  CL    46280.00   3204.00      0.00      0.00      0.00      0.00
NONPOINT        6  PA     2003.00    138.00      0.00      0.00      0.00      0.00
NONPOINT        7  BB      900.00     55.00      0.00      0.00      0.00      0.00
NONPOINT        8  BL    13795.00    356.00      0.00      0.00      0.00      0.00
NONPOINT        9  SB      730.00     13.40      0.00      0.00      0.00      0.00
NONPOINT       10  SB      700.00     47.00      0.00      0.00      0.00      0.00
NONPOINT       11  SB     2975.00    130.00      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    Black Lake Bayou       0   0.23000    8.121   20.10     0.00     0.000     0.000   0.00
HDWTR-1       549    Praire                 0   0.85650   30.244   21.10     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    Black Lake Bayou          5.03      2.25      1.21      0.19      0.00      0.00
HDWTR-2       549    Praire                    5.76      7.74      1.66      0.29      0.00      0.00
ENDATA21

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

CARD TYPE     ELEMENT   NAME                     PHOS     CHL A      COLI       NCM
                                              mg/L      mg/L      mg/L      mg/L

HDWTR-3         1    Black Lake Bayou          0.00     20.00      0.00      0.00
HDWTR-3       549    Praire                    0.00     20.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$
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CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
          ELEMENT  ELEMENT     KILOM

JUNCTION        579     548      16.00     Clear Lake and Praire
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       1    125.60  NPS Letherman Creek    0.23900    8.43927    5.455   20.10     0.00     0.000     0.000
WSTLD-1     119     102.00  NPS Kepler Creek       0.09700    3.42514    2.214   20.10     0.00     0.000     0.000
WSTLD-1     142      97.40  NPS FourMile Creek     0.06600    2.33051    1.506   20.10     0.00     0.000     0.000
WSTLD-1     231      79.60  NPS Castor Creek       0.07600    2.68362    1.735   20.10     0.00     0.000     0.000
WSTLD-1     388      48.20  NPS Grand Bayou        0.00300    0.10593    0.068   21.10     0.00     0.000     0.000
WSTLD-1     505      24.80  NPS Clear Lake out    -0.85650  -30.24364  -19.550   21.10     0.00     0.000     0.000
WSTLD-1     539      18.00  NPs Saline Lake        1.61050   56.86794   36.760   31.70     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        1    NPS Letherman Creek       5.02     2.29     0.00     1.23     0.19     0.00     0.05     0.00
WSTLD-2      119    NPS Kepler Creek          5.51     2.29     0.00     1.23     0.19     0.00     0.05     0.00
WSTLD-2      142    NPS FourMile Creek        5.13     2.29     0.00     1.23     0.19     0.00     0.05     0.00
WSTLD-2      231    NPS Castor Creek          5.13     2.29     0.00     1.23     0.19     0.00     0.05     0.00
WSTLD-2      388    NPS Grand Bayou           4.96     2.31     0.00     1.25     0.20     0.00     0.05     0.00
WSTLD-2      505    NPS Clear Lake out        5.76     7.74     0.00     1.66     0.29     0.00     0.05     0.00
WSTLD-2      539    NPs Saline Lake           4.94     2.60     0.00     1.40     0.22     0.00     0.05     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

WSTLD-3        1    NPS Letherman Creek       0.00    20.00     0.00     0.00
WSTLD-2      119    NPS Kepler Creek          0.00    20.00     0.00     0.00
WSTLD-2      142    NPS FourMile Creek        0.00    20.00     0.00     0.00
WSTLD-2      231    NPS Castor Creek          0.00    20.00     0.00     0.00
WSTLD-2      388    NPS Grand Bayou           0.00    20.00     0.00     0.00
WSTLD-2      505    NPS Clear Lake out        0.00    20.00     0.00     0.00
WSTLD-2      539    NPs Saline Lake           0.00    20.00     0.00     0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                  CONCENTRATION
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ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 = 9
PLOT RCH 1 2 3 4 5 6 7 10 11
NUMBER OF REACHES IN PLOT 1 = 2
PLOT RCH 8 9
ENDATA30

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

OVERLAY 1 Main.OVL :Black Lake By; Black - Clear Lk; Black Lake By; Saline By
OVERLAY 2 Praire.OVL :Praire; Bayou Barbeaux
ENDATA31

.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 2 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 Winter Projection for Black Lake Bayou, Clear Lake, and
mg/L Winter Projection

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

BL	1	1	5.17	5.31	5.44	5.57	5.68	5.79	5.89	5.99	6.08	6.17
BL	1	11	6.25	6.32	6.39	6.46	6.52	6.58	6.64	6.69	6.74	6.79
BL	1	21	6.83	6.88	6.92	6.95	6.99	7.02	7.06	7.09	7.11	7.14
BL	1	31	7.17	7.19	7.21	7.24	7.26	7.28	7.29	7.31	7.33	7.34
BL	1	41	7.36	7.37	7.39	7.40	7.41	7.43	7.44	7.45	7.46	7.47
BL	1	51	7.48	7.49	7.49	7.50	7.51	7.52	7.52	7.53	7.54	7.54
BL	1	61	7.55	7.56	7.56	7.57	7.57	7.58	7.58	7.59	7.59	7.60
BL	2	71	7.59	7.59	7.59	7.59	7.59	7.59	7.59	7.58	7.58	7.58
BL	2	81	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58
BL	2	91	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.59	7.59	7.59
BL	2	101	7.59	7.59	7.59	7.59	7.59	7.59	7.59	7.59	7.59	7.59
BL	2	111	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.36	7.38
BL	2	121	7.39	7.41	7.42	7.43	7.44	7.46	7.47	7.48	7.49	7.50
BL	2	131	7.50	7.51	7.52	7.53	7.54	7.54	7.55	7.56	7.56	7.57
BL	2	141	7.58	7.41	7.43	7.44	7.45	7.47	7.48	7.49	7.50	7.51
BL	2	151	7.52	7.53	7.54	7.55	7.56	7.57	7.57	7.58	7.59	7.59
BL	2	161	7.60	7.61	7.61	7.62	7.63	7.63	7.64	7.64	7.65	7.65
BL	2	171	7.66	7.66	7.67	7.67	7.67	7.68	7.68	7.69	7.69	7.69
BL	2	181	7.70	7.70	7.70	7.71	7.71	7.71	7.71	7.72	7.72	7.72
BL	2	191	7.72	7.73	7.73	7.73	7.73	7.74	7.74	7.74	7.74	7.74
BL	2	201	7.75	7.75	7.75	7.75	7.75	7.76	7.76	7.76	7.76	7.76
BL	2	211	7.76	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.78	7.78
BL	2	221	7.78	7.78	7.78	7.78	7.78	7.78	7.79	7.79	7.79	7.79
BL	2	231	7.62	7.63	7.64	7.65	7.66	7.66	7.67	7.68	7.68	7.69
BL	2	241	7.70									
BL	3	242	7.68	7.67	7.66	7.65	7.64	7.64	7.63	7.62	7.61	7.60
BL	3	252	7.59	7.59	7.58	7.57	7.57	7.56	7.55	7.55	7.54	7.54
BL	3	262	7.53	7.53	7.52	7.52	7.51	7.51	7.50	7.50	7.49	7.49
BL	3	272	7.49	7.48	7.48	7.47	7.47	7.47	7.46	7.46	7.46	7.46
BL	3	282	7.45	7.45	7.45	7.44	7.44	7.44	7.44	7.43	7.43	7.43
BL	3	292	7.43	7.42	7.42	7.42	7.42	7.42	7.41	7.41	7.41	7.41
BL	3	302	7.41	7.41	7.40	7.40	7.40	7.40	7.40	7.40	7.39	7.39
BL	3	312	7.39	7.39	7.39	7.39	7.39	7.38	7.38	7.38	7.38	7.38
BL	3	322	7.38	7.38	7.38	7.37	7.37	7.37	7.37	7.37	7.37	7.37
BL	3	332	7.37	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36
BL	3	342	7.36	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35
BL	3	352	7.35	7.34	7.34	7.34	7.34	7.34	7.34	7.34	7.34	7.34
BL	3	362	7.34	7.34	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
BL	3	372	7.33	7.33	7.33	7.32	7.32					
BL	4	377	7.04	6.87	6.75	6.66	6.58	6.52	6.47	6.43	6.40	6.37
BL	4	387	6.35	6.32	6.31	6.29	6.28	6.27	6.26	6.25	6.25	6.24
BL	4	397	6.24	6.23	6.23	6.23	6.22	6.22	6.22	6.22	6.22	6.21
BL	4	407	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21
BL	4	417	6.21	6.21	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
BL	4	427	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
BL	4	437	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20
BL	4	447	6.20	6.20	6.20							
CL	5	450	5.92	5.82	5.79	5.77	5.77	5.77	5.77	5.76	5.76	5.76
CL	5	460	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76
CL	5	470	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76
CL	5	480	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76

CL	5	490	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76
CL	5	500	5.76	5.76	5.76	5.76	5.76	5.76				
PA	6	506	5.53	5.36	5.23	5.15	5.10	5.07	5.06	5.07	5.10	5.13
PA	6	516	5.17	5.22	5.27	5.33	5.40	5.46	5.53	5.60	5.67	5.75
PA	6	526	5.82	5.90	5.97	6.05	6.13	6.21	6.28	6.36	6.44	6.52
PA	6	536	6.60	6.68	6.76							
BB	7	539	5.62	5.67	5.72	5.77	5.83	5.88	5.93	5.98	6.04	6.09
SB	10	579	6.09	6.06	6.04	6.02	5.99	5.97	5.96	5.94	5.93	5.92
SB	10	589	5.91	5.90	5.89	5.89	5.88	5.88	5.88	5.88	5.88	5.89
SB	10	599	5.89	5.90	5.91	5.91	5.92	5.93				
SB	11	605	5.94	5.94	5.95	5.95	5.95	5.95	5.95	5.95	5.94	5.94
SB	11	615	5.94	5.93	5.93	5.92	5.92	5.91	5.90	5.90	5.89	5.88
SB	11	625	5.87	5.86	5.85	5.84	5.83	5.82	5.81	5.80	5.79	5.78
SB	11	635	5.77	5.76	5.74	5.73	5.72	5.71	5.69	5.68	5.67	5.66
SB	11	645	5.64	5.63	5.62	5.60	5.59	5.58	5.56	5.55	5.54	5.52
SB	11	655	5.51	5.49	5.48	5.47						
BL	8	549	7.21	7.28	7.20	7.12	7.07	7.04	7.02	7.00	6.99	6.99
BL	8	559	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98
BL	8	569	6.98	6.98								
SB	9	571	7.13	7.19	7.18	7.09	6.94	6.74	6.50	6.21		

INTERMEDIATE REPORT
Effective BOD
mg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	2.27	2.26	2.25	2.25	2.24	2.24	2.23	2.23	2.23	2.22
BL	1	11	2.22	2.21	2.21	2.20	2.20	2.19	2.19	2.18	2.18	2.17
BL	1	21	2.17	2.17	2.16	2.16	2.15	2.15	2.14	2.14	2.14	2.13
BL	1	31	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.10	2.10	2.09
BL	1	41	2.09	2.08	2.08	2.08	2.07	2.07	2.06	2.06	2.06	2.05
BL	1	51	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02
BL	1	61	2.02	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99
BL	2	71	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
BL	2	81	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
BL	2	91	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95
BL	2	101	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94
BL	2	111	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.98	1.98
BL	2	121	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96
BL	2	131	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	2	141	1.94	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.95
BL	2	151	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94
BL	2	161	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.92
BL	2	171	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91
BL	2	181	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89
BL	2	191	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88
BL	2	201	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86
BL	2	211	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.85

BL	2	221	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84
BL	2	231	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.85
BL	2	241	1.85									
BL	3	242	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.82	1.81
BL	3	252	1.81	1.81	1.80	1.80	1.80	1.79	1.79	1.79	1.78	1.78
BL	3	262	1.78	1.77	1.77	1.77	1.76	1.76	1.76	1.75	1.75	1.75
BL	3	272	1.74	1.74	1.74	1.73	1.73	1.73	1.72	1.72	1.72	1.71
BL	3	282	1.71	1.71	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.68
BL	3	292	1.68	1.68	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.65
BL	3	302	1.65	1.65	1.64	1.64	1.64	1.64	1.63	1.63	1.63	1.62
BL	3	312	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.60	1.60	1.60
BL	3	322	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.57	1.57
BL	3	332	1.57	1.57	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55
BL	3	342	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53	1.52	1.52
BL	3	352	1.52	1.52	1.51	1.51	1.51	1.51	1.50	1.50	1.50	1.50
BL	3	362	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.47
BL	3	372	1.47	1.47	1.47	1.47	1.46					
BL	4	377	2.50	3.36	4.08	4.68	5.18	5.60	5.95	6.24	6.48	6.68
BL	4	387	6.85	6.98	7.10	7.20	7.28	7.35	7.40	7.45	7.49	7.53
BL	4	397	7.56	7.58	7.60	7.61	7.63	7.64	7.65	7.66	7.67	7.67
BL	4	407	7.68	7.68	7.68	7.69	7.69	7.69	7.69	7.69	7.69	7.70
BL	4	417	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
BL	4	427	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
BL	4	437	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
BL	4	447	7.70	7.70	7.70							
CL	5	450	7.72	7.73	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	460	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	470	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	480	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	490	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	500	7.74	7.74	7.74	7.74	7.74	7.74				
PA	6	506	7.74	7.73	7.73	7.72	7.72	7.71	7.71	7.70	7.69	7.69
PA	6	516	7.68	7.68	7.67	7.66	7.66	7.65	7.65	7.64	7.63	7.63
PA	6	526	7.62	7.61	7.61	7.60	7.60	7.59	7.58	7.58	7.57	7.56
PA	6	536	7.56	7.55	7.55							
BB	7	539	4.57	4.80	5.04	5.26	5.47	5.68	5.88	6.07	6.25	6.43
SB	10	579	9.74	9.73	9.73	9.72	9.71	9.70	9.69	9.69	9.68	9.67
SB	10	589	9.67	9.66	9.65	9.64	9.64	9.63	9.62	9.62	9.61	9.60
SB	10	599	9.60	9.59	9.59	9.58	9.57	9.57				
SB	11	605	9.64	9.71	9.77	9.84	9.91	9.97	10.04	10.10	10.16	10.22
SB	11	615	10.28	10.35	10.40	10.46	10.52	10.58	10.64	10.69	10.75	10.80
SB	11	625	10.86	10.91	10.96	11.01	11.07	11.12	11.17	11.22	11.26	11.31
SB	11	635	11.36	11.41	11.45	11.50	11.54	11.59	11.63	11.68	11.72	11.76
SB	11	645	11.80	11.85	11.89	11.93	11.97	12.01	12.04	12.08	12.12	12.16
SB	11	655	12.20	12.23	12.27	12.30						
BL	8	549	10.54	12.35	13.53	14.30	14.80	15.12	15.33	15.47	15.56	15.62
BL	8	559	15.65	15.68	15.69	15.70	15.71	15.72	15.72	15.72	15.72	15.72
BL	8	569	15.72	15.72								
SB	9	571	16.25	16.75	17.23	17.69	18.12	18.54	18.93	19.31		

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	2.27	2.26	2.25	2.25	2.24	2.24	2.23	2.23	2.23	2.22
BL	1	11	2.22	2.21	2.21	2.20	2.20	2.19	2.19	2.18	2.18	2.17
BL	1	21	2.17	2.17	2.16	2.16	2.15	2.15	2.14	2.14	2.14	2.13
BL	1	31	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.10	2.10	2.09
BL	1	41	2.09	2.08	2.08	2.08	2.07	2.07	2.06	2.06	2.06	2.05
BL	1	51	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02
BL	1	61	2.02	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99
BL	2	71	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
BL	2	81	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
BL	2	91	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95
BL	2	101	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94
BL	2	111	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.98	1.98
BL	2	121	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96
BL	2	131	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	2	141	1.94	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.95
BL	2	151	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94
BL	2	161	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.92
BL	2	171	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91
BL	2	181	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89
BL	2	191	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88
BL	2	201	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86
BL	2	211	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.85
BL	2	221	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84
BL	2	231	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.85
BL	2	241	1.85									
BL	3	242	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.82	1.81
BL	3	252	1.81	1.81	1.80	1.80	1.80	1.79	1.79	1.79	1.78	1.78
BL	3	262	1.78	1.77	1.77	1.77	1.76	1.76	1.76	1.75	1.75	1.75
BL	3	272	1.74	1.74	1.74	1.73	1.73	1.73	1.72	1.72	1.72	1.71
BL	3	282	1.71	1.71	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.68
BL	3	292	1.68	1.68	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.65
BL	3	302	1.65	1.65	1.64	1.64	1.64	1.64	1.63	1.63	1.63	1.62
BL	3	312	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.60	1.60	1.60
BL	3	322	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.57	1.57
BL	3	332	1.57	1.57	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55
BL	3	342	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53	1.52	1.52
BL	3	352	1.52	1.52	1.51	1.51	1.51	1.51	1.50	1.50	1.50	1.50
BL	3	362	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.47
BL	3	372	1.47	1.47	1.47	1.47	1.46					
BL	4	377	2.50	3.36	4.08	4.68	5.18	5.60	5.95	6.24	6.48	6.68
BL	4	387	6.85	6.98	7.10	7.20	7.28	7.35	7.40	7.45	7.49	7.53
BL	4	397	7.56	7.58	7.60	7.61	7.63	7.64	7.65	7.66	7.67	7.67
BL	4	407	7.68	7.68	7.68	7.69	7.69	7.69	7.69	7.69	7.69	7.70
BL	4	417	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70

BL	4	427	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
BL	4	437	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
BL	4	447	7.70	7.70	7.70							
CL	5	450	7.72	7.73	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	460	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	470	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	480	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	490	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
CL	5	500	7.74	7.74	7.74	7.74	7.74	7.74				
PA	6	506	7.74	7.73	7.73	7.72	7.72	7.71	7.71	7.70	7.69	7.69
PA	6	516	7.68	7.68	7.67	7.66	7.66	7.65	7.65	7.64	7.63	7.63
PA	6	526	7.62	7.61	7.61	7.60	7.60	7.59	7.58	7.58	7.57	7.56
PA	6	536	7.56	7.55	7.55							
BB	7	539	4.57	4.80	5.04	5.26	5.47	5.68	5.88	6.07	6.25	6.43
SB	10	579	9.74	9.73	9.73	9.72	9.71	9.70	9.69	9.69	9.68	9.67
SB	10	589	9.67	9.66	9.65	9.64	9.64	9.63	9.62	9.62	9.61	9.60
SB	10	599	9.60	9.59	9.59	9.58	9.57	9.57				
SB	11	605	9.64	9.71	9.77	9.84	9.91	9.97	10.04	10.10	10.16	10.22
SB	11	615	10.28	10.35	10.40	10.46	10.52	10.58	10.64	10.69	10.75	10.80
SB	11	625	10.86	10.91	10.96	11.01	11.07	11.12	11.17	11.22	11.26	11.31
SB	11	635	11.36	11.41	11.45	11.50	11.54	11.59	11.63	11.68	11.72	11.76
SB	11	645	11.80	11.85	11.89	11.93	11.97	12.01	12.04	12.08	12.12	12.16
SB	11	655	12.20	12.23	12.27	12.30						
BL	8	549	10.54	12.35	13.53	14.30	14.80	15.12	15.33	15.47	15.56	15.62
BL	8	559	15.65	15.68	15.69	15.70	15.71	15.72	15.72	15.72	15.72	15.72
BL	8	569	15.72	15.72								
SB	9	571	16.25	16.75	17.23	17.69	18.12	18.54	18.93	19.31		

INTERMEDIATE REPORT
Organic Nitrogen LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
mg/L Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.22	1.22	1.22	1.22	1.23	1.23	1.23	1.23	1.23	1.23
BL	1	11	1.23	1.23	1.23	1.23	1.24	1.24	1.24	1.24	1.24	1.24
BL	1	21	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.25	1.25	1.25
BL	1	31	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
BL	1	41	1.25	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BL	1	51	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.27
BL	1	61	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BL	2	71	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BL	2	81	1.27	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	91	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	101	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.29	1.29	1.29
BL	2	111	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28
BL	2	121	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	131	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	141	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28

BL	2	151	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	161	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	171	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	181	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	191	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	201	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	211	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	221	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	231	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
BL	2	241	1.28									
BL	3	242	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.29	1.29
BL	3	252	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
BL	3	262	1.29	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
BL	3	272	1.30	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31	1.31
BL	3	282	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
BL	3	292	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
BL	3	302	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.33	1.33	1.33
BL	3	312	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
BL	3	322	1.33	1.33	1.33	1.33	1.33	1.33	1.34	1.34	1.34	1.34
BL	3	332	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
BL	3	342	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.35	1.35
BL	3	352	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
BL	3	362	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
BL	3	372	1.35	1.35	1.35	1.36	1.36					
BL	4	377	1.37	1.39	1.41	1.42	1.44	1.45	1.46	1.47	1.48	1.49
BL	4	387	1.50	1.51	1.52	1.53	1.54	1.54	1.55	1.56	1.56	1.57
BL	4	397	1.57	1.58	1.58	1.59	1.59	1.59	1.60	1.60	1.60	1.61
BL	4	407	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62	1.62	1.63
BL	4	417	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64
BL	4	427	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
BL	4	437	1.64	1.64	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
BL	4	447	1.65	1.65	1.65							
CL	5	450	1.65	1.65	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.66
CL	5	460	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
CL	5	470	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
CL	5	480	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
CL	5	490	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
CL	5	500	1.66	1.66	1.66	1.66	1.66	1.66				
PA	6	506	1.66	1.66	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.65
PA	6	516	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.64
PA	6	526	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
PA	6	536	1.64	1.64	1.64							
BB	7	539	1.49	1.50	1.50	1.51	1.52	1.53	1.53	1.54	1.55	1.56
SB	10	579	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
SB	10	589	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
SB	10	599	1.61	1.62	1.62	1.62	1.62	1.62				
SB	11	605	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.63	1.64	1.64
SB	11	615	1.64	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65	1.65
SB	11	625	1.66	1.66	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67
SB	11	635	1.67	1.67	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.69
SB	11	645	1.69	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.70

SB	11	655	1.70	1.70	1.71	1.71						
BL	8	549	1.66	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67	1.67
BL	8	559	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
BL	8	569	1.67	1.67								
SB	9	571	1.67	1.68	1.68	1.69	1.69	1.70	1.70	1.71		

INTERMEDIATE REPORT
Ammonia Nitrogen
mg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
BL	1	11	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
BL	1	21	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20
BL	1	31	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	1	41	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	1	51	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	1	61	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	71	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	81	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	91	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	101	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	111	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	121	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	131	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	141	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BL	2	151	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
BL	2	161	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	171	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	181	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	191	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	201	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	211	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	221	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	231	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	2	241	0.21									
BL	3	242	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	252	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	262	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	272	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	282	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	292	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	302	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	312	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	322	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	332	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
BL	3	342	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	352	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22

BL	3	362	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
BL	3	372	0.22	0.22	0.22	0.22	0.22					
BL	4	377	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26
BL	4	387	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27
BL	4	397	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BL	4	407	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.29
BL	4	417	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BL	4	427	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BL	4	437	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BL	4	447	0.29	0.29	0.29							
CL	5	450	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
CL	5	460	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
CL	5	470	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
CL	5	480	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
CL	5	490	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
CL	5	500	0.29	0.29	0.29	0.29	0.29	0.29				
PA	6	506	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30
PA	6	516	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
PA	6	526	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28
PA	6	536	0.28	0.28	0.28							
BB	7	539	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SB	10	579	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
SB	10	589	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SB	10	599	0.27	0.27	0.27	0.27	0.27	0.27				
SB	11	605	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SB	11	615	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SB	11	625	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
SB	11	635	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
SB	11	645	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
SB	11	655	0.28	0.28	0.28	0.28						
BL	8	549	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BL	8	559	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BL	8	569	0.29	0.29								
SB	9	571	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29		

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
mg/L Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
BL	1	11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT
Total Nitrogen
mg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
BL	1	11	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
BL	1	21	1.43	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
BL	1	31	1.44	1.44	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
BL	1	41	1.45	1.45	1.45	1.45	1.45	1.46	1.46	1.46	1.46	1.46
BL	1	51	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
BL	1	61	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
BL	2	71	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.48
BL	2	81	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
BL	2	91	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.49	1.49
BL	2	101	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	111	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48
BL	2	121	1.48	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	131	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	141	1.49	1.48	1.48	1.48	1.48	1.49	1.49	1.49	1.49	1.49
BL	2	151	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	161	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	171	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	181	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	191	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	201	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	211	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	221	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	231	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BL	2	241	1.49									
BL	3	242	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.50
BL	3	252	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
BL	3	262	1.50	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
BL	3	272	1.51	1.51	1.51	1.51	1.52	1.52	1.52	1.52	1.52	1.52
BL	3	282	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.53	1.53

BL	3	292	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
BL	3	302	1.53	1.53	1.53	1.54	1.54	1.54	1.54	1.54	1.54	1.54
BL	3	312	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.55
BL	3	322	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
BL	3	332	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.56	1.56	1.56
BL	3	342	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
BL	3	352	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.57	1.57
BL	3	362	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
BL	3	372	1.57	1.57	1.57	1.57	1.57					
BL	4	377	1.60	1.62	1.64	1.66	1.68	1.69	1.71	1.72	1.74	1.75
BL	4	387	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.82	1.83	1.84
BL	4	397	1.84	1.85	1.86	1.86	1.87	1.87	1.87	1.88	1.88	1.89
BL	4	407	1.89	1.89	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.91
BL	4	417	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93
BL	4	427	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
BL	4	437	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94
BL	4	447	1.94	1.94	1.94							
CL	5	450	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CL	5	460	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CL	5	470	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CL	5	480	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CL	5	490	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
CL	5	500	1.95	1.95	1.95	1.95	1.95	1.95				
PA	6	506	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
PA	6	516	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93
PA	6	526	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92
PA	6	536	1.92	1.92	1.92							
BB	7	539	1.73	1.74	1.75	1.76	1.77	1.77	1.78	1.79	1.80	1.81
SB	10	579	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87
SB	10	589	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88
SB	10	599	1.88	1.88	1.88	1.88	1.89	1.89				
SB	11	605	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.91	1.91
SB	11	615	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.93	1.93
SB	11	625	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.95
SB	11	635	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97
SB	11	645	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98
SB	11	655	1.99	1.99	1.99	1.99						
BL	8	549	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96
BL	8	559	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
BL	8	569	1.96	1.96								
SB	9	571	1.97	1.97	1.98	1.98	1.98	1.99	1.99	2.00		

INTERMEDIATE REPORT

Chlorophyll a µg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

BL	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	41	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	51	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	1	61	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	161	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	171	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	181	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	191	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	201	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	211	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	221	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	231	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	2	241	20.00									
BL	3	242	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	252	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	262	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	272	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	282	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	292	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	302	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	312	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	322	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	332	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	342	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	352	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	362	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	3	372	20.00	20.00	20.00	20.00	20.00					
BL	4	377	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	387	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	397	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	407	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	417	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	427	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	437	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BL	4	447	20.00	20.00	20.00							
CL	5	450	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	460	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	470	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	480	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CL	5	490	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

CL	5	500	20.00	20.00	20.00	20.00	20.00	20.00				
PA	6	506	20.42	20.85	21.27	21.70	22.12	22.55	22.97	23.39	23.82	24.24
PA	6	516	24.67	25.09	25.52	25.94	26.36	26.79	27.21	27.64	28.06	28.48
PA	6	526	28.91	29.33	29.76	30.18	30.61	31.03	31.45	31.88	32.30	32.73
PA	6	536	33.15	33.58	34.00							
BB	7	539	34.80	35.60	36.40	37.20	38.00	38.80	39.60	40.40	41.20	42.00
SB	10	579	42.31	42.62	42.92	43.23	43.54	43.85	44.15	44.46	44.77	45.08
SB	10	589	45.38	45.69	46.00	46.31	46.62	46.92	47.23	47.54	47.85	48.15
SB	10	599	48.46	48.77	49.08	49.38	49.69	50.00				
SB	11	605	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	615	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	625	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	635	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	645	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SB	11	655	50.00	50.00	50.00	50.00						
BL	8	549	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	559	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
BL	8	569	75.00	75.00								
SB	9	571	70.88	66.75	62.62	58.50	54.38	50.25	46.12	42.00		

INTERMEDIATE REPORT

Temperature LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
deg C Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	11	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	21	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	31	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	41	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	51	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	1	61	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	71	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	81	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	91	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	101	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	111	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	121	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	131	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	141	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	151	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	161	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	171	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	181	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	191	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	201	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	211	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	221	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10

BL	2	231	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
BL	2	241	20.10									
BL	3	242	20.11	20.11	20.12	20.13	20.14	20.14	20.15	20.16	20.17	20.17
BL	3	252	20.18	20.19	20.20	20.20	20.21	20.22	20.23	20.23	20.24	20.25
BL	3	262	20.26	20.26	20.27	20.28	20.29	20.29	20.30	20.31	20.31	20.32
BL	3	272	20.33	20.34	20.34	20.35	20.36	20.37	20.37	20.38	20.39	20.40
BL	3	282	20.40	20.41	20.42	20.43	20.43	20.44	20.45	20.46	20.46	20.47
BL	3	292	20.48	20.49	20.49	20.50	20.51	20.51	20.52	20.53	20.54	20.54
BL	3	302	20.55	20.56	20.57	20.57	20.58	20.59	20.60	20.60	20.61	20.62
BL	3	312	20.63	20.63	20.64	20.65	20.66	20.66	20.67	20.68	20.69	20.69
BL	3	322	20.70	20.71	20.71	20.72	20.73	20.74	20.74	20.75	20.76	20.77
BL	3	332	20.77	20.78	20.79	20.80	20.80	20.81	20.82	20.83	20.83	20.84
BL	3	342	20.85	20.86	20.86	20.87	20.88	20.89	20.89	20.90	20.91	20.91
BL	3	352	20.92	20.93	20.94	20.94	20.95	20.96	20.97	20.97	20.98	20.99
BL	3	362	21.00	21.00	21.01	21.02	21.03	21.03	21.04	21.05	21.06	21.06
BL	3	372	21.07	21.08	21.09	21.09	21.10					
BL	4	377	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	387	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	397	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	407	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	417	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	427	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	437	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	4	447	21.10	21.10	21.10							
CL	5	450	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CL	5	460	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CL	5	470	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CL	5	480	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CL	5	490	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CL	5	500	21.10	21.10	21.10	21.10	21.10	21.10				
PA	6	506	21.12	21.14	21.15	21.17	21.19	21.21	21.23	21.25	21.26	21.28
PA	6	516	21.30	21.32	21.34	21.35	21.37	21.39	21.41	21.43	21.45	21.46
PA	6	526	21.48	21.50	21.52	21.54	21.55	21.57	21.59	21.61	21.63	21.65
PA	6	536	21.66	21.68	21.70							
BB	7	539	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	10	579	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	10	589	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	10	599	21.70	21.70	21.70	21.70	21.70	21.70				
SB	11	605	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	11	615	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	11	625	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	11	635	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	11	645	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70	21.70
SB	11	655	21.70	21.70	21.70	21.70						
BL	8	549	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	8	559	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
BL	8	569	21.10	21.10								
SB	9	571	21.18	21.25	21.33	21.40	21.48	21.55	21.62	21.70		

INTERMEDIATE REPORT

Salinity
ppt

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				
SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
km Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	125.	125.	125.	125.	125.	124.	124.	124.	124.	124.
BL	1	11	123.	123.	123.	123.	123.	122.	122.	122.	122.	122.
BL	1	21	121.	121.	121.	121.	121.	120.	120.	120.	120.	120.
BL	1	31	119.	119.	119.	119.	119.	118.	118.	118.	118.	118.
BL	1	41	117.	117.	117.	117.	117.	116.	116.	116.	116.	116.
BL	1	51	115.	115.	115.	115.	115.	114.	114.	114.	114.	114.
BL	1	61	113.	113.	113.	113.	113.	112.	112.	112.	112.	112.
BL	2	71	111.	111.	111.	111.	111.	110.	110.	110.	110.	110.
BL	2	81	109.	109.	109.	109.	109.	108.	108.	108.	108.	108.
BL	2	91	107.	107.	107.	107.	107.	106.	106.	106.	106.	106.
BL	2	101	105.	105.	105.	105.	105.	104.	104.	104.	104.	104.
BL	2	111	103.	103.	103.	103.	103.	102.	102.	102.	102.	102.
BL	2	121	101.	101.	101.	101.	101.	100.	100.	100.	100.	100.
BL	2	131	99.	99.	99.	99.	99.	98.	98.	98.	98.	98.
BL	2	141	97.	97.	97.	97.	97.	96.	96.	96.	96.	96.
BL	2	151	95.	95.	95.	95.	95.	94.	94.	94.	94.	94.

BL	2	161	93.	93.	93.	93.	93.	92.	92.	92.	92.	92.
BL	2	171	91.	91.	91.	91.	91.	90.	90.	90.	90.	90.
BL	2	181	89.	89.	89.	89.	89.	88.	88.	88.	88.	88.
BL	2	191	87.	87.	87.	87.	87.	86.	86.	86.	86.	86.
BL	2	201	85.	85.	85.	85.	85.	84.	84.	84.	84.	84.
BL	2	211	83.	83.	83.	83.	83.	82.	82.	82.	82.	82.
BL	2	221	81.	81.	81.	81.	81.	80.	80.	80.	80.	80.
BL	2	231	79.	79.	79.	79.	79.	78.	78.	78.	78.	78.
BL	2	241	77.									
BL	3	242	77.	77.	77.	77.	76.	76.	76.	76.	76.	75.
BL	3	252	75.	75.	75.	75.	74.	74.	74.	74.	74.	73.
BL	3	262	73.	73.	73.	73.	72.	72.	72.	72.	72.	71.
BL	3	272	71.	71.	71.	71.	70.	70.	70.	70.	70.	69.
BL	3	282	69.	69.	69.	69.	68.	68.	68.	68.	68.	67.
BL	3	292	67.	67.	67.	67.	66.	66.	66.	66.	66.	65.
BL	3	302	65.	65.	65.	65.	64.	64.	64.	64.	64.	63.
BL	3	312	63.	63.	63.	63.	62.	62.	62.	62.	62.	61.
BL	3	322	61.	61.	61.	61.	60.	60.	60.	60.	60.	59.
BL	3	332	59.	59.	59.	59.	58.	58.	58.	58.	58.	57.
BL	3	342	57.	57.	57.	57.	56.	56.	56.	56.	56.	55.
BL	3	352	55.	55.	55.	55.	54.	54.	54.	54.	54.	53.
BL	3	362	53.	53.	53.	53.	52.	52.	52.	52.	52.	51.
BL	3	372	51.	51.	51.	51.	50.					
BL	4	377	50.	50.	50.	50.	49.	49.	49.	49.	49.	48.
BL	4	387	48.	48.	48.	48.	47.	47.	47.	47.	47.	46.
BL	4	397	46.	46.	46.	46.	45.	45.	45.	45.	45.	44.
BL	4	407	44.	44.	44.	44.	43.	43.	43.	43.	43.	42.
BL	4	417	42.	42.	42.	42.	41.	41.	41.	41.	41.	40.
BL	4	427	40.	40.	40.	40.	39.	39.	39.	39.	39.	38.
BL	4	437	38.	38.	38.	38.	37.	37.	37.	37.	37.	36.
BL	4	447	36.	36.	36.							
CL	5	450	36.	35.	35.	35.	35.	35.	34.	34.	34.	34.
CL	5	460	34.	33.	33.	33.	33.	33.	32.	32.	32.	32.
CL	5	470	32.	31.	31.	31.	31.	31.	30.	30.	30.	30.
CL	5	480	30.	29.	29.	29.	29.	29.	28.	28.	28.	28.
CL	5	490	28.	27.	27.	27.	27.	27.	26.	26.	26.	26.
CL	5	500	26.	25.	25.	25.	25.	25.				
PA	6	506	24.	24.	24.	24.	24.	23.	23.	23.	23.	23.
PA	6	516	22.	22.	22.	22.	22.	21.	21.	21.	21.	21.
PA	6	526	20.	20.	20.	20.	20.	19.	19.	19.	19.	19.
PA	6	536	18.	18.	18.							
BB	7	539	18.	18.	17.	17.	17.	17.	17.	16.	16.	16.
SB	10	579	16.	16.	15.	15.	15.	15.	15.	14.	14.	14.
SB	10	589	14.	14.	13.	13.	13.	13.	13.	12.	12.	12.
SB	10	599	12.	12.	11.	11.	11.	11.				
SB	11	605	11.	10.	10.	10.	10.	10.	9.	9.	9.	9.
SB	11	615	9.	8.	8.	8.	8.	8.	7.	7.	7.	7.
SB	11	625	7.	6.	6.	6.	6.	6.	5.	5.	5.	5.
SB	11	635	5.	4.	4.	4.	4.	4.	3.	3.	3.	3.
SB	11	645	3.	2.	2.	2.	2.	2.	1.	1.	1.	1.
SB	11	655	1.	0.	0.	0.						

BL	8	549	6.	6.	5.	5.	5.	5.	5.	4.	4.	4.
BL	8	559	4.	4.	3.	3.	3.	3.	3.	2.	2.	2.
BL	8	569	2.	2.								
SB	9	571	1.	1.	1.	1.	1.	0.	0.	0.		

INTERMEDIATE REPORT

Flow LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and

m^3/s Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BL	1	11	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BL	1	21	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BL	1	31	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BL	1	41	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	1	51	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	1	61	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	2	71	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	2	81	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BL	2	91	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	101	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
BL	2	111	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
BL	2	121	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	131	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BL	2	141	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	151	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	2	161	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	171	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	181	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	191	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	201	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BL	2	211	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	2	221	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BL	2	231	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	2	241	1.2									
BL	3	242	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	3	252	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	3	262	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	3	272	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	3	282	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	3	292	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	3	302	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	3	312	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	3	322	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	3	332	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	3	342	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	3	352	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	3	362	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

BL	3	372	1.4	1.4	1.5	1.5	1.5					
BL	4	377	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	387	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	397	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	407	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	417	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6
BL	4	427	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
BL	4	437	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
BL	4	447	1.6	1.6	1.6							
CL	5	450	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CL	5	460	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CL	5	470	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7
CL	5	480	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
CL	5	490	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
CL	5	500	1.7	1.7	1.7	1.7	1.7	0.9				
PA	6	506	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
PA	6	516	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
PA	6	526	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
PA	6	536	0.9	0.9	0.9							
BB	7	539	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
SB	10	579	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	10	589	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	10	599	3.3	3.3	3.3	3.3	3.3	3.3				
SB	11	605	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	11	615	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	11	625	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	11	635	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	11	645	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
SB	11	655	3.3	3.3	3.3	3.3						
BL	8	549	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	559	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	569	0.9	0.9								
SB	9	571	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9		

INTERMEDIATE REPORT

Dispersion LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and

m^2/s Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	241	0.0									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	342	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	372	0.0	0.0	0.0	0.0	0.0					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Advective Velocity LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and

m/s Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
BL	2	121	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	131	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	141	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	151	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	161	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	171	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	181	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	191	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	201	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	211	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	221	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	231	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	2	241	0.1									
BL	3	242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	252	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BL	3	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	3	332	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	3	342	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	3	352	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	3	362	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BL	3	372	0.1	0.1	0.1	0.1	0.1					
BL	4	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	4	447	0.0	0.0	0.0							
CL	5	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CL	5	500	0.0	0.0	0.0	0.0	0.0	0.0				
PA	6	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	516	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA	6	536	0.0	0.0	0.0							
BB	7	539	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	589	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	10	599	0.0	0.0	0.0	0.0	0.0	0.0				
SB	11	605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	615	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	11	655	0.0	0.0	0.0	0.0						
BL	8	549	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BL	8	569	0.0	0.0								
SB	9	571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Depth m

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	1	11	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

BL	1	21	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	1	31	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	1	41	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	1	51	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	1	61	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	2	81	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BL	2	91	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3
BL	2	101	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
BL	2	111	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4
BL	2	121	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	2	131	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
BL	2	141	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	151	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	161	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	171	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	181	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	191	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	201	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	2	211	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6
BL	2	221	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
BL	2	231	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
BL	2	241	1.6									
BL	3	242	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
BL	3	252	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
BL	3	262	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
BL	3	272	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
BL	3	282	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	292	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	302	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	312	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	322	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	332	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	342	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	352	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
BL	3	362	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
BL	3	372	2.0	2.0	2.0	2.0	2.0					
BL	4	377	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	387	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	397	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	407	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	417	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	427	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	437	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
BL	4	447	1.5	1.5	1.5							
CL	5	450	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	460	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	470	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	480	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	490	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
CL	5	500	5.0	5.0	5.0	5.0	5.0	5.0				

PA	6	506	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	516	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	526	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
PA	6	536	5.7	5.7	5.7							
BB	7	539	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
SB	10	579	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	589	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	10	599	4.6	4.6	4.6	4.6	4.6	4.6				
SB	11	605	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	615	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	625	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	635	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	645	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
SB	11	655	4.6	4.6	4.6	4.6						
BL	8	549	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	559	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BL	8	569	0.9	0.9								
SB	9	571	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1		

INTERMEDIATE REPORT

Width LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
m Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
BL	1	11	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
BL	1	21	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
BL	1	31	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
BL	1	41	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4
BL	1	51	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
BL	1	61	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5
BL	2	71	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.3
BL	2	81	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
BL	2	91	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
BL	2	101	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4
BL	2	111	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.6	11.6
BL	2	121	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
BL	2	131	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.7	11.7
BL	2	141	11.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
BL	2	151	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
BL	2	161	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9	11.9
BL	2	171	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	2	181	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	2	191	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
BL	2	201	11.9	11.9	11.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	2	211	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	2	221	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
BL	2	231	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

BL	2	241	12.1									
BL	3	242	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
BL	3	252	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
BL	3	262	14.1	14.1	14.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2
BL	3	272	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
BL	3	282	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
BL	3	292	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
BL	3	302	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
BL	3	312	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
BL	3	322	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
BL	3	332	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
BL	3	342	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
BL	3	352	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
BL	3	362	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
BL	3	372	14.4	14.4	14.4	14.4	14.4					
BL	4	377	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	387	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	397	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	407	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	417	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	427	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	437	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
BL	4	447	1297.0	1297.0	1297.0							
CL	5	450	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	460	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	470	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	480	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	490	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
CL	5	500	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0				
PA	6	506	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	516	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	526	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
PA	6	536	110.0	110.0	110.0							
BB	7	539	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
SB	10	579	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	589	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
SB	10	599	50.6	50.6	50.6	50.6	50.6	50.6				
SB	11	605	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	615	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	625	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	635	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	645	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
SB	11	655	61.5	61.5	61.5	61.5						
BL	8	549	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
BL	8	559	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
BL	8	569	2604.0	2604.0								
SB	9	571	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0		

m²

Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	13.7	13.8	13.8	13.8	13.9	13.9	13.9	14.0	14.0	14.0
BL	1	11	14.1	14.1	14.1	14.2	14.2	14.2	14.3	14.3	14.3	14.3
BL	1	21	14.4	14.4	14.4	14.5	14.5	14.5	14.6	14.6	14.6	14.7
BL	1	31	14.7	14.7	14.8	14.8	14.8	14.9	14.9	14.9	14.9	15.0
BL	1	41	15.0	15.0	15.1	15.1	15.1	15.2	15.2	15.2	15.3	15.3
BL	1	51	15.3	15.3	15.4	15.4	15.4	15.5	15.5	15.5	15.6	15.6
BL	1	61	15.6	15.6	15.7	15.7	15.7	15.8	15.8	15.8	15.9	15.9
BL	2	71	13.6	13.6	13.6	13.6	13.7	13.7	13.7	13.7	13.8	13.8
BL	2	81	13.8	13.8	13.9	13.9	13.9	13.9	14.0	14.0	14.0	14.0
BL	2	91	14.1	14.1	14.1	14.1	14.1	14.2	14.2	14.2	14.2	14.3
BL	2	101	14.3	14.3	14.3	14.4	14.4	14.4	14.4	14.5	14.5	14.5
BL	2	111	14.5	14.6	14.6	14.6	14.6	14.7	14.7	14.7	15.8	15.9
BL	2	121	15.9	15.9	15.9	16.0	16.0	16.0	16.0	16.0	16.1	16.1
BL	2	131	16.1	16.1	16.2	16.2	16.2	16.2	16.2	16.3	16.3	16.3
BL	2	141	16.3	17.1	17.1	17.1	17.1	17.2	17.2	17.2	17.2	17.2
BL	2	151	17.3	17.3	17.3	17.3	17.3	17.4	17.4	17.4	17.4	17.4
BL	2	161	17.5	17.5	17.5	17.5	17.5	17.6	17.6	17.6	17.6	17.7
BL	2	171	17.7	17.7	17.7	17.7	17.8	17.8	17.8	17.8	17.8	17.9
BL	2	181	17.9	17.9	17.9	17.9	18.0	18.0	18.0	18.0	18.0	18.1
BL	2	191	18.1	18.1	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.3
BL	2	201	18.3	18.3	18.3	18.3	18.4	18.4	18.4	18.4	18.4	18.5
BL	2	211	18.5	18.5	18.5	18.5	18.6	18.6	18.6	18.6	18.6	18.7
BL	2	221	18.7	18.7	18.7	18.7	18.8	18.8	18.8	18.8	18.8	18.9
BL	2	231	19.6	19.6	19.7	19.7	19.7	19.7	19.7	19.7	19.8	19.8
BL	2	241	19.8									
BL	3	242	25.3	25.3	25.3	25.3	25.4	25.4	25.4	25.4	25.5	25.5
BL	3	252	25.5	25.5	25.6	25.6	25.6	25.6	25.7	25.7	25.7	25.7
BL	3	262	25.8	25.8	25.8	25.8	25.8	25.9	25.9	25.9	25.9	26.0
BL	3	272	26.0	26.0	26.0	26.1	26.1	26.1	26.1	26.2	26.2	26.2
BL	3	282	26.2	26.2	26.3	26.3	26.3	26.3	26.4	26.4	26.4	26.4
BL	3	292	26.5	26.5	26.5	26.5	26.5	26.6	26.6	26.6	26.6	26.7
BL	3	302	26.7	26.7	26.7	26.8	26.8	26.8	26.8	26.8	26.9	26.9
BL	3	312	26.9	26.9	27.0	27.0	27.0	27.0	27.1	27.1	27.1	27.1
BL	3	322	27.1	27.2	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.4
BL	3	332	27.4	27.4	27.4	27.4	27.5	27.5	27.5	27.5	27.6	27.6
BL	3	342	27.6	27.6	27.6	27.7	27.7	27.7	27.7	27.8	27.8	27.8
BL	3	352	27.8	27.8	27.9	27.9	27.9	27.9	28.0	28.0	28.0	28.0
BL	3	362	28.0	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.2	28.2
BL	3	372	28.3	28.3	28.3	28.3	28.4					
BL	4	377	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	387	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	397	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	407	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	417	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	427	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4
BL	4	437	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4	1971.4

BL	4	447	1971.4	1971.4	1971.4							
CL	5	450	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	460	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	470	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	480	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	490	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0
CL	5	500	8444.0	8444.0	8444.0	8444.0	8444.0	8444.0				
PA	6	506	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	516	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	526	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
PA	6	536	624.8	624.8	624.8							
BB	7	539	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
SB	10	579	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	589	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
SB	10	599	231.1	231.1	231.1	231.1	231.1	231.1				
SB	11	605	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	615	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	625	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	635	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	645	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
SB	11	655	281.1	281.1	281.1	281.1						
BL	8	549	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6
BL	8	559	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6	2369.6
BL	8	569	2369.6	2369.6								
SB	9	571	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3		

INTERMEDIATE REPORT

Reaeration Rate per day

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.854	0.853	0.852	0.851	0.850	0.849	0.848	0.847	0.847	0.846
BL	1	11	0.845	0.844	0.843	0.842	0.841	0.840	0.839	0.839	0.838	0.837
BL	1	21	0.836	0.835	0.834	0.833	0.833	0.832	0.831	0.830	0.829	0.828
BL	1	31	0.828	0.827	0.826	0.825	0.824	0.824	0.823	0.822	0.821	0.820
BL	1	41	0.820	0.819	0.818	0.817	0.817	0.816	0.815	0.814	0.814	0.813
BL	1	51	0.812	0.811	0.811	0.810	0.809	0.809	0.808	0.807	0.806	0.806
BL	1	61	0.805	0.804	0.804	0.803	0.802	0.802	0.801	0.800	0.800	0.799
BL	2	71	1.083	1.082	1.082	1.081	1.080	1.079	1.078	1.078	1.077	1.076
BL	2	81	1.075	1.074	1.074	1.073	1.072	1.071	1.070	1.070	1.069	1.068
BL	2	91	1.067	1.066	1.066	1.065	1.064	1.063	1.063	1.062	1.061	1.060
BL	2	101	1.060	1.059	1.058	1.058	1.057	1.056	1.055	1.055	1.054	1.053
BL	2	111	1.053	1.052	1.051	1.050	1.050	1.049	1.048	1.048	1.017	1.016
BL	2	121	1.015	1.015	1.014	1.014	1.013	1.013	1.012	1.012	1.011	1.010
BL	2	131	1.010	1.009	1.009	1.008	1.008	1.007	1.007	1.006	1.006	1.005
BL	2	141	1.005	0.987	0.987	0.987	0.986	0.986	0.985	0.985	0.984	0.984
BL	2	151	0.983	0.983	0.982	0.982	0.981	0.981	0.981	0.980	0.980	0.979
BL	2	161	0.979	0.978	0.978	0.977	0.977	0.977	0.976	0.976	0.975	0.975

BL	2	171	0.974	0.974	0.974	0.973	0.973	0.972	0.972	0.971	0.971	0.971
BL	2	181	0.970	0.970	0.969	0.969	0.968	0.968	0.968	0.967	0.967	0.966
BL	2	191	0.966	0.966	0.965	0.965	0.964	0.964	0.964	0.963	0.963	0.962
BL	2	201	0.962	0.962	0.961	0.961	0.960	0.960	0.960	0.959	0.959	0.958
BL	2	211	0.958	0.958	0.957	0.957	0.957	0.956	0.956	0.955	0.955	0.955
BL	2	221	0.954	0.954	0.953	0.953	0.953	0.952	0.952	0.952	0.951	0.951
BL	2	231	0.937	0.937	0.937	0.936	0.936	0.936	0.935	0.935	0.935	0.934
BL	2	241	0.934									
BL	3	242	0.746	0.746	0.746	0.746	0.745	0.745	0.745	0.745	0.745	0.745
BL	3	252	0.744	0.744	0.744	0.744	0.744	0.744	0.743	0.743	0.743	0.743
BL	3	262	0.743	0.742	0.742	0.742	0.742	0.742	0.742	0.741	0.741	0.741
BL	3	272	0.741	0.741	0.741	0.741	0.740	0.740	0.740	0.740	0.740	0.740
BL	3	282	0.739	0.739	0.739	0.739	0.739	0.739	0.738	0.738	0.738	0.738
BL	3	292	0.738	0.738	0.738	0.737	0.737	0.737	0.737	0.737	0.737	0.736
BL	3	302	0.736	0.736	0.736	0.736	0.736	0.736	0.735	0.735	0.735	0.735
BL	3	312	0.735	0.735	0.735	0.734	0.734	0.734	0.734	0.734	0.734	0.734
BL	3	322	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.732	0.732	0.732
BL	3	332	0.732	0.732	0.732	0.732	0.732	0.731	0.731	0.731	0.731	0.731
BL	3	342	0.731	0.731	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
BL	3	352	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.728	0.728
BL	3	362	0.728	0.728	0.728	0.728	0.728	0.728	0.727	0.727	0.727	0.727
BL	3	372	0.727	0.727	0.727	0.727	0.726					
BL	4	377	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	387	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	397	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	407	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	417	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	427	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	437	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
BL	4	447	0.538	0.538	0.538							
CL	5	450	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
CL	5	460	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
CL	5	470	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
CL	5	480	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
CL	5	490	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
CL	5	500	0.164	0.164	0.164	0.164	0.164	0.164				
PA	6	506	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
PA	6	516	0.144	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
PA	6	526	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
PA	6	536	0.146	0.146	0.146							
BB	7	539	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
SB	10	579	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	10	589	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	10	599	0.181	0.181	0.181	0.181	0.181	0.181				
SB	11	605	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	11	615	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	11	625	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	11	635	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	11	645	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SB	11	655	0.181	0.181	0.181	0.181						
BL	8	549	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898

BL	8	559	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898
BL	8	569	0.898	0.898								
SB	9	571	0.262	0.263	0.263	0.264	0.264	0.264	0.265	0.265		

INTERMEDIATE REPORT

BOD Decay Rate per day

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	31	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	41	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	51	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	1	61	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	71	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	81	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	91	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	101	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	111	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	121	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	131	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	141	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	151	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	161	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	171	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	181	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	191	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	201	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	211	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	221	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	231	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	2	241	0.06									
BL	3	242	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	252	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	262	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	272	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	282	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	292	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	302	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	312	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	322	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	332	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	342	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	352	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	362	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	3	372	0.06	0.06	0.06	0.06	0.06					

BL	4	377	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	387	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	397	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	407	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	417	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	427	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	437	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BL	4	447	0.06	0.06	0.06							
CL	5	450	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CL	5	460	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CL	5	470	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CL	5	480	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CL	5	490	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CL	5	500	0.06	0.06	0.06	0.06	0.06	0.06				
PA	6	506	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
PA	6	516	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
PA	6	526	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
PA	6	536	0.06	0.06	0.06							
BB	7	539	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	10	579	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	10	589	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	10	599	0.06	0.06	0.06	0.06	0.06	0.06				
SB	11	605	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	11	615	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	11	625	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	11	635	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	11	645	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SB	11	655	0.06	0.06	0.06	0.06						
BL	8	549	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	8	559	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BL	8	569	0.08	0.08								
SB	9	571	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09		

INTERMEDIATE REPORT
BOD Settling Rate
per day

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BL	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	2	241	0.00									
BL	3	242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	3	372	0.00	0.00	0.00	0.00	0.00					
BL	4	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	4	447	0.00	0.00	0.00							
CL	5	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL	5	500	0.00	0.00	0.00	0.00	0.00	0.00				
PA	6	506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA	6	536	0.00	0.00	0.00							
BB	7	539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	10	599	0.00	0.00	0.00	0.00	0.00	0.00				

SB	11	605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB	11	655	0.00	0.00	0.00	0.00						
BL	8	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BL	8	569	0.00	0.00								
SB	9	571	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 Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	31	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	41	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	51	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	1	61	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	71	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	81	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	91	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	101	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	111	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	121	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	131	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	141	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	151	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	161	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	171	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	181	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	191	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	201	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	211	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	221	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	231	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	2	241	0.11									
BL	3	242	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	252	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	262	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	272	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	282	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	292	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	302	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

BL	3	312	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BL	3	322	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
BL	3	332	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	342	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	352	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	362	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	3	372	0.12	0.12	0.12	0.12	0.12					
BL	4	377	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	387	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	397	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	407	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	417	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	427	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	437	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	4	447	0.12	0.12	0.12							
CL	5	450	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CL	5	460	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CL	5	470	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CL	5	480	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CL	5	490	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CL	5	500	0.11	0.11	0.11	0.11	0.11	0.11				
PA	6	506	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
PA	6	516	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
PA	6	526	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
PA	6	536	0.12	0.12	0.12							
BB	7	539	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	10	579	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	10	589	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	10	599	0.12	0.12	0.12	0.12	0.12	0.12				
SB	11	605	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	11	615	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	11	625	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	11	635	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	11	645	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SB	11	655	0.12	0.12	0.12	0.12						
BL	8	549	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	8	559	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BL	8	569	0.12	0.12								
SB	9	571	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		

INTERMEDIATE REPORT
Sediment Oxygen Demand LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
g/m²/d Winter Projection

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BL	1	1	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	1	11	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	1	21	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95

BL	1	31	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	1	41	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	1	51	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	1	61	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
BL	2	71	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	81	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	91	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	101	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	111	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	121	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	131	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	141	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	151	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	161	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	171	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	181	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	191	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	201	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	211	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	221	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	231	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
BL	2	241	2.17									
BL	3	242	2.66	2.66	2.66	2.66	2.66	2.66	2.67	2.67	2.67	2.67
BL	3	252	2.67	2.67	2.67	2.67	2.68	2.68	2.68	2.68	2.68	2.68
BL	3	262	2.68	2.68	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69
BL	3	272	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.71	2.71
BL	3	282	2.71	2.71	2.71	2.71	2.71	2.71	2.72	2.72	2.72	2.72
BL	3	292	2.72	2.72	2.72	2.72	2.73	2.73	2.73	2.73	2.73	2.73
BL	3	302	2.73	2.73	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74
BL	3	312	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76	2.76	2.76
BL	3	322	2.76	2.76	2.76	2.76	2.76	2.77	2.77	2.77	2.77	2.77
BL	3	332	2.77	2.77	2.77	2.78	2.78	2.78	2.78	2.78	2.78	2.78
BL	3	342	2.78	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.80	2.80
BL	3	352	2.80	2.80	2.80	2.80	2.80	2.80	2.81	2.81	2.81	2.81
BL	3	362	2.81	2.81	2.81	2.81	2.82	2.82	2.82	2.82	2.82	2.82
BL	3	372	2.82	2.83	2.83	2.83	2.83					
BL	4	377	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	387	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	397	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	407	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	417	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	427	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	437	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
BL	4	447	2.07	2.07	2.07							
CL	5	450	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
CL	5	460	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
CL	5	470	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
CL	5	480	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
CL	5	490	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
CL	5	500	2.12	2.12	2.12	2.12	2.12	2.12				
PA	6	506	3.10	3.11	3.11	3.11	3.12	3.12	3.13	3.13	3.13	3.14

PA	6	516	3.14	3.14	3.15	3.15	3.15	3.16	3.16	3.17	3.17	3.17
PA	6	526	3.18	3.18	3.18	3.19	3.19	3.19	3.20	3.20	3.21	3.21
PA	6	536	3.21	3.22	3.22							
BB	7	539	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29
SB	10	579	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
SB	10	589	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
SB	10	599	5.01	5.01	5.01	5.01	5.01	5.01				
SB	11	605	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
SB	11	615	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
SB	11	625	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
SB	11	635	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
SB	11	645	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18
SB	11	655	5.18	5.18	5.18	5.18						
BL	8	549	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
BL	8	559	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
BL	8	569	2.10	2.10								
SB	9	571	1.82	1.83	1.84	1.85	1.86	1.86	1.87	1.88		

CONDENSED CAPSULE SUMMARY FOR Black Lake Bayou

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	REAER ORGN	BOD1 NH3	BOD1 CHLA	BOD2 RATE	BOD2 DECA	NH3 SETT	CHLA DECA	RATE SETT	ORGN 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	0.23000	20.10	0.00	5.03	2.25	0.00	1.21	0.19	20.00							
125.40	0.47098	20.10	0.00	5.17	2.27	0.00	1.22	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
125.20	0.47297	20.10	0.00	5.31	2.26	0.00	1.22	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
125.00	0.47495	20.10	0.00	5.44	2.25	0.00	1.22	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
124.80	0.47694	20.10	0.00	5.57	2.25	0.00	1.22	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
124.60	0.47892	20.10	0.00	5.68	2.24	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
124.40	0.48091	20.10	0.00	5.79	2.24	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
124.20	0.48289	20.10	0.00	5.89	2.23	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
124.00	0.48487	20.10	0.00	5.99	2.23	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
123.80	0.48686	20.10	0.00	6.08	2.23	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
123.60	0.48884	20.10	0.00	6.17	2.22	0.00	1.23	0.19	20.00	0.85	0.06	0.00	0.00	0.00	0.11	1.95
123.40	0.49083	20.10	0.00	6.25	2.22	0.00	1.23	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
123.20	0.49281	20.10	0.00	6.32	2.21	0.00	1.23	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
123.00	0.49480	20.10	0.00	6.39	2.21	0.00	1.23	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
122.80	0.49678	20.10	0.00	6.46	2.20	0.00	1.23	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
122.60	0.49876	20.10	0.00	6.52	2.20	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
122.40	0.50075	20.10	0.00	6.58	2.19	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
122.20	0.50273	20.10	0.00	6.64	2.19	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
122.00	0.50472	20.10	0.00	6.69	2.18	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
121.80	0.50670	20.10	0.00	6.74	2.18	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
121.60	0.50869	20.10	0.00	6.79	2.17	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
121.40	0.51067	20.10	0.00	6.83	2.17	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
121.20	0.51265	20.10	0.00	6.88	2.17	0.00	1.24	0.19	20.00	0.84	0.06	0.00	0.00	0.00	0.11	1.95
121.00	0.51464	20.10	0.00	6.92	2.16	0.00	1.24	0.19	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
120.80	0.51662	20.10	0.00	6.95	2.16	0.00	1.24	0.19	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
120.60	0.51861	20.10	0.00	6.99	2.15	0.00	1.24	0.19	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95

120.40	0.52059	20.10	0.00	7.02	2.15	0.00	1.24	0.19	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
120.20	0.52258	20.10	0.00	7.06	2.14	0.00	1.24	0.19	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
120.00	0.52456	20.10	0.00	7.09	2.14	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
119.80	0.52654	20.10	0.00	7.11	2.14	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
119.60	0.52853	20.10	0.00	7.14	2.13	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
119.40	0.53051	20.10	0.00	7.17	2.13	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
119.20	0.53250	20.10	0.00	7.19	2.12	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
119.00	0.53448	20.10	0.00	7.21	2.12	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
118.80	0.53647	20.10	0.00	7.24	2.11	0.00	1.25	0.20	20.00	0.83	0.06	0.00	0.00	0.00	0.11	1.95
118.60	0.53845	20.10	0.00	7.26	2.11	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
118.40	0.54043	20.10	0.00	7.28	2.11	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
118.20	0.54242	20.10	0.00	7.29	2.10	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
118.00	0.54440	20.10	0.00	7.31	2.10	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
117.80	0.54639	20.10	0.00	7.33	2.10	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
117.60	0.54837	20.10	0.00	7.34	2.09	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
117.40	0.55036	20.10	0.00	7.36	2.09	0.00	1.25	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
117.20	0.55234	20.10	0.00	7.37	2.08	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
117.00	0.55432	20.10	0.00	7.39	2.08	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
116.80	0.55631	20.10	0.00	7.40	2.08	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
116.60	0.55829	20.10	0.00	7.41	2.07	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
116.40	0.56028	20.10	0.00	7.43	2.07	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
116.20	0.56226	20.10	0.00	7.44	2.06	0.00	1.26	0.20	20.00	0.82	0.06	0.00	0.00	0.00	0.11	1.95
116.00	0.56425	20.10	0.00	7.45	2.06	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
115.80	0.56623	20.10	0.00	7.46	2.06	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
115.60	0.56821	20.10	0.00	7.47	2.05	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
115.40	0.57020	20.10	0.00	7.48	2.05	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
115.20	0.57218	20.10	0.00	7.49	2.05	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
115.00	0.57417	20.10	0.00	7.49	2.04	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
114.80	0.57615	20.10	0.00	7.50	2.04	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
114.60	0.57814	20.10	0.00	7.51	2.04	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
114.40	0.58012	20.10	0.00	7.52	2.03	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
114.20	0.58210	20.10	0.00	7.52	2.03	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
114.00	0.58409	20.10	0.00	7.53	2.03	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
113.80	0.58607	20.10	0.00	7.54	2.02	0.00	1.26	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
113.60	0.58806	20.10	0.00	7.54	2.02	0.00	1.27	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
113.40	0.59004	20.10	0.00	7.55	2.02	0.00	1.27	0.20	20.00	0.81	0.06	0.00	0.00	0.00	0.11	1.95
113.20	0.59203	20.10	0.00	7.56	2.01	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
113.00	0.59401	20.10	0.00	7.56	2.01	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
112.80	0.59600	20.10	0.00	7.57	2.01	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
112.60	0.59798	20.10	0.00	7.57	2.00	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
112.40	0.59996	20.10	0.00	7.58	2.00	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
112.20	0.60195	20.10	0.00	7.58	2.00	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
112.00	0.60393	20.10	0.00	7.59	1.99	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
111.80	0.60592	20.10	0.00	7.59	1.99	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
111.60	0.60790	20.10	0.00	7.60	1.99	0.00	1.27	0.20	20.00	0.80	0.06	0.00	0.00	0.00	0.11	1.95
111.40	0.60989	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
111.20	0.61187	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
111.00	0.61385	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
110.80	0.61584	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
110.60	0.61782	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
110.40	0.61981	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17

110.20	0.62179	20.10	0.00	7.59	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
110.00	0.62377	20.10	0.00	7.58	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
109.80	0.62576	20.10	0.00	7.58	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
109.60	0.62774	20.10	0.00	7.58	1.98	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
109.40	0.62973	20.10	0.00	7.58	1.97	0.00	1.27	0.20	20.00	1.08	0.06	0.00	0.00	0.00	0.11	2.17
109.20	0.63171	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
109.00	0.63370	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
108.80	0.63568	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
108.60	0.63766	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
108.40	0.63965	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
108.20	0.64163	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
108.00	0.64362	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
107.80	0.64560	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
107.60	0.64759	20.10	0.00	7.58	1.97	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
107.40	0.64957	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
107.20	0.65155	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
107.00	0.65354	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.07	0.06	0.00	0.00	0.00	0.11	2.17
106.80	0.65552	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
106.60	0.65751	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
106.40	0.65949	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
106.20	0.66148	20.10	0.00	7.58	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
106.00	0.66346	20.10	0.00	7.59	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
105.80	0.66544	20.10	0.00	7.59	1.96	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
105.60	0.66743	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
105.40	0.66941	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
105.20	0.67140	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
105.00	0.67338	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
104.80	0.67536	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
104.60	0.67735	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
104.40	0.67933	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
104.20	0.68132	20.10	0.00	7.59	1.95	0.00	1.28	0.20	20.00	1.06	0.06	0.00	0.00	0.00	0.11	2.17
104.00	0.68330	20.10	0.00	7.59	1.95	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
103.80	0.68529	20.10	0.00	7.59	1.95	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
103.60	0.68727	20.10	0.00	7.59	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
103.40	0.68925	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
103.20	0.69124	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
103.00	0.69322	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
102.80	0.69521	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
102.60	0.69719	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
102.40	0.69918	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
102.20	0.70116	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
102.00	0.70314	20.10	0.00	7.60	1.94	0.00	1.29	0.20	20.00	1.05	0.06	0.00	0.00	0.00	0.11	2.17
101.80	0.80213	20.10	0.00	7.36	1.98	0.00	1.28	0.20	20.00	1.02	0.06	0.00	0.00	0.00	0.11	2.17
101.60	0.80411	20.10	0.00	7.38	1.98	0.00	1.28	0.20	20.00	1.02	0.06	0.00	0.00	0.00	0.11	2.17
101.40	0.80610	20.10	0.00	7.39	1.97	0.00	1.28	0.20	20.00	1.02	0.06	0.00	0.00	0.00	0.11	2.17
101.20	0.80808	20.10	0.00	7.41	1.97	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
101.00	0.81007	20.10	0.00	7.42	1.97	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
100.80	0.81205	20.10	0.00	7.43	1.97	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
100.60	0.81403	20.10	0.00	7.44	1.97	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
100.40	0.81602	20.10	0.00	7.46	1.97	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
100.20	0.81800	20.10	0.00	7.47	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17

100.00	0.81999	20.10	0.00	7.48	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
99.80	0.82197	20.10	0.00	7.49	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
99.60	0.82396	20.10	0.00	7.50	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
99.40	0.82594	20.10	0.00	7.50	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
99.20	0.82792	20.10	0.00	7.51	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
99.00	0.82991	20.10	0.00	7.52	1.96	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
98.80	0.83189	20.10	0.00	7.53	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
98.60	0.83388	20.10	0.00	7.54	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
98.40	0.83586	20.10	0.00	7.54	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
98.20	0.83784	20.10	0.00	7.55	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
98.00	0.83983	20.10	0.00	7.56	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
97.80	0.84181	20.10	0.00	7.56	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
97.60	0.84380	20.10	0.00	7.57	1.95	0.00	1.28	0.20	20.00	1.01	0.06	0.00	0.00	0.00	0.11	2.17
97.40	0.84578	20.10	0.00	7.58	1.94	0.00	1.28	0.20	20.00	1.00	0.06	0.00	0.00	0.00	0.11	2.17
97.20	0.91377	20.10	0.00	7.41	1.97	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
97.00	0.91575	20.10	0.00	7.43	1.97	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
96.80	0.91773	20.10	0.00	7.44	1.96	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
96.60	0.91972	20.10	0.00	7.45	1.96	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
96.40	0.92170	20.10	0.00	7.47	1.96	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
96.20	0.92369	20.10	0.00	7.48	1.96	0.00	1.28	0.20	20.00	0.99	0.06	0.00	0.00	0.00	0.11	2.17
96.00	0.92567	20.10	0.00	7.49	1.96	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
95.80	0.92766	20.10	0.00	7.50	1.96	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
95.60	0.92964	20.10	0.00	7.51	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
95.40	0.93162	20.10	0.00	7.52	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
95.20	0.93361	20.10	0.00	7.53	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
95.00	0.93559	20.10	0.00	7.54	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
94.80	0.93758	20.10	0.00	7.55	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
94.60	0.93956	20.10	0.00	7.56	1.95	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
94.40	0.94155	20.10	0.00	7.57	1.94	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
94.20	0.94353	20.10	0.00	7.57	1.94	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
94.00	0.94551	20.10	0.00	7.58	1.94	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
93.80	0.94750	20.10	0.00	7.59	1.94	0.00	1.28	0.20	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
93.60	0.94948	20.10	0.00	7.59	1.94	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
93.40	0.95147	20.10	0.00	7.60	1.94	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
93.20	0.95345	20.10	0.00	7.61	1.94	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
93.00	0.95544	20.10	0.00	7.61	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
92.80	0.95742	20.10	0.00	7.62	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
92.60	0.95940	20.10	0.00	7.63	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
92.40	0.96139	20.10	0.00	7.63	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
92.20	0.96337	20.10	0.00	7.64	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
92.00	0.96536	20.10	0.00	7.64	1.93	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
91.80	0.96734	20.10	0.00	7.65	1.92	0.00	1.28	0.21	20.00	0.98	0.06	0.00	0.00	0.00	0.11	2.17
91.60	0.96932	20.10	0.00	7.65	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
91.40	0.97131	20.10	0.00	7.66	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
91.20	0.97329	20.10	0.00	7.66	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
91.00	0.97528	20.10	0.00	7.67	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
90.80	0.97726	20.10	0.00	7.67	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
90.60	0.97925	20.10	0.00	7.67	1.92	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
90.40	0.98123	20.10	0.00	7.68	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
90.20	0.98321	20.10	0.00	7.68	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
90.00	0.98520	20.10	0.00	7.69	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17

89.80	0.98718	20.10	0.00	7.69	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
89.60	0.98917	20.10	0.00	7.69	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
89.40	0.99115	20.10	0.00	7.70	1.91	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
89.20	0.99314	20.10	0.00	7.70	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
89.00	0.99512	20.10	0.00	7.70	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
88.80	0.99710	20.10	0.00	7.71	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
88.60	0.99909	20.10	0.00	7.71	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
88.40	1.00107	20.10	0.00	7.71	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
88.20	1.00306	20.10	0.00	7.71	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
88.00	1.00504	20.10	0.00	7.72	1.90	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
87.80	1.00703	20.10	0.00	7.72	1.89	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
87.60	1.00901	20.10	0.00	7.72	1.89	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
87.40	1.01099	20.10	0.00	7.72	1.89	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
87.20	1.01298	20.10	0.00	7.73	1.89	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
87.00	1.01496	20.10	0.00	7.73	1.89	0.00	1.28	0.21	20.00	0.97	0.06	0.00	0.00	0.00	0.11	2.17
86.80	1.01695	20.10	0.00	7.73	1.89	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
86.60	1.01893	20.10	0.00	7.73	1.89	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
86.40	1.02091	20.10	0.00	7.74	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
86.20	1.02290	20.10	0.00	7.74	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
86.00	1.02488	20.10	0.00	7.74	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
85.80	1.02687	20.10	0.00	7.74	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
85.60	1.02885	20.10	0.00	7.74	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
85.40	1.03084	20.10	0.00	7.75	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
85.20	1.03282	20.10	0.00	7.75	1.88	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
85.00	1.03480	20.10	0.00	7.75	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
84.80	1.03679	20.10	0.00	7.75	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
84.60	1.03877	20.10	0.00	7.75	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
84.40	1.04076	20.10	0.00	7.76	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
84.20	1.04274	20.10	0.00	7.76	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
84.00	1.04473	20.10	0.00	7.76	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
83.80	1.04671	20.10	0.00	7.76	1.87	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
83.60	1.04869	20.10	0.00	7.76	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
83.40	1.05068	20.10	0.00	7.76	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
83.20	1.05266	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
83.00	1.05465	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
82.80	1.05663	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
82.60	1.05862	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
82.40	1.06060	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
82.20	1.06258	20.10	0.00	7.77	1.86	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
82.00	1.06457	20.10	0.00	7.77	1.85	0.00	1.28	0.21	20.00	0.96	0.06	0.00	0.00	0.00	0.11	2.17
81.80	1.06655	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
81.60	1.06854	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
81.40	1.07052	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
81.20	1.07251	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
81.00	1.07449	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
80.80	1.07647	20.10	0.00	7.78	1.85	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
80.60	1.07846	20.10	0.00	7.78	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
80.40	1.08044	20.10	0.00	7.78	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
80.20	1.08243	20.10	0.00	7.79	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
80.00	1.08441	20.10	0.00	7.79	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
79.80	1.08639	20.10	0.00	7.79	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17

79.60	1.08838	20.10	0.00	7.79	1.84	0.00	1.28	0.21	20.00	0.95	0.06	0.00	0.00	0.00	0.11	2.17
79.40	1.16636	20.10	0.00	7.62	1.87	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
79.20	1.16835	20.10	0.00	7.63	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
79.00	1.17033	20.10	0.00	7.64	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
78.80	1.17232	20.10	0.00	7.65	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
78.60	1.17430	20.10	0.00	7.66	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
78.40	1.17628	20.10	0.00	7.66	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
78.20	1.17827	20.10	0.00	7.67	1.86	0.00	1.28	0.21	20.00	0.94	0.06	0.00	0.00	0.00	0.11	2.17
78.00	1.18025	20.10	0.00	7.68	1.86	0.00	1.28	0.21	20.00	0.93	0.06	0.00	0.00	0.00	0.11	2.17
77.80	1.18224	20.10	0.00	7.68	1.85	0.00	1.28	0.21	20.00	0.93	0.06	0.00	0.00	0.00	0.11	2.17
77.60	1.18422	20.10	0.00	7.69	1.85	0.00	1.28	0.21	20.00	0.93	0.06	0.00	0.00	0.00	0.11	2.17
77.40	1.18621	20.10	0.00	7.70	1.85	0.00	1.28	0.21	20.00	0.93	0.06	0.00	0.00	0.00	0.11	2.17
77.20	1.18819	20.11	0.00	7.68	1.85	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
77.00	1.19017	20.11	0.00	7.67	1.84	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
76.80	1.19216	20.12	0.00	7.66	1.84	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
76.60	1.19414	20.13	0.00	7.65	1.84	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
76.40	1.19613	20.14	0.00	7.64	1.83	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
76.20	1.19811	20.14	0.00	7.64	1.83	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.66
76.00	1.20010	20.15	0.00	7.63	1.83	0.00	1.28	0.21	20.00	0.75	0.06	0.00	0.00	0.00	0.11	2.67
75.80	1.20208	20.16	0.00	7.62	1.82	0.00	1.28	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
75.60	1.20407	20.17	0.00	7.61	1.82	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
75.40	1.20605	20.17	0.00	7.60	1.81	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
75.20	1.20803	20.18	0.00	7.59	1.81	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
75.00	1.21002	20.19	0.00	7.59	1.81	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
74.80	1.21200	20.20	0.00	7.58	1.80	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
74.60	1.21399	20.20	0.00	7.57	1.80	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.67
74.40	1.21597	20.21	0.00	7.57	1.80	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
74.20	1.21796	20.22	0.00	7.56	1.79	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
74.00	1.21994	20.23	0.00	7.55	1.79	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
73.80	1.22193	20.23	0.00	7.55	1.79	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
73.60	1.22391	20.24	0.00	7.54	1.78	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
73.40	1.22590	20.25	0.00	7.54	1.78	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
73.20	1.22788	20.26	0.00	7.53	1.78	0.00	1.29	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
73.00	1.22986	20.26	0.00	7.53	1.77	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.68
72.80	1.23185	20.27	0.00	7.52	1.77	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
72.60	1.23383	20.28	0.00	7.52	1.77	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
72.40	1.23582	20.29	0.00	7.51	1.76	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
72.20	1.23780	20.29	0.00	7.51	1.76	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
72.00	1.23979	20.30	0.00	7.50	1.76	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
71.80	1.24177	20.31	0.00	7.50	1.75	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
71.60	1.24376	20.31	0.00	7.49	1.75	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
71.40	1.24574	20.32	0.00	7.49	1.75	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.69
71.20	1.24772	20.33	0.00	7.49	1.74	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
71.00	1.24971	20.34	0.00	7.48	1.74	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
70.80	1.25169	20.34	0.00	7.48	1.74	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
70.60	1.25368	20.35	0.00	7.47	1.73	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
70.40	1.25566	20.36	0.00	7.47	1.73	0.00	1.30	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
70.20	1.25765	20.37	0.00	7.47	1.73	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
70.00	1.25963	20.37	0.00	7.46	1.72	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
69.80	1.26162	20.38	0.00	7.46	1.72	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.70
69.60	1.26360	20.39	0.00	7.46	1.72	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71

69.40	1.26558	20.40	0.00	7.46	1.71	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
69.20	1.26757	20.40	0.00	7.45	1.71	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
69.00	1.26955	20.41	0.00	7.45	1.71	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
68.80	1.27154	20.42	0.00	7.45	1.70	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
68.60	1.27352	20.43	0.00	7.44	1.70	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
68.40	1.27551	20.43	0.00	7.44	1.70	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
68.20	1.27749	20.44	0.00	7.44	1.70	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.71
68.00	1.27948	20.45	0.00	7.44	1.69	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
67.80	1.28146	20.46	0.00	7.43	1.69	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
67.60	1.28345	20.46	0.00	7.43	1.69	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
67.40	1.28543	20.47	0.00	7.43	1.68	0.00	1.31	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
67.20	1.28741	20.48	0.00	7.43	1.68	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
67.00	1.28940	20.49	0.00	7.42	1.68	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
66.80	1.29138	20.49	0.00	7.42	1.67	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
66.60	1.29337	20.50	0.00	7.42	1.67	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.72
66.40	1.29535	20.51	0.00	7.42	1.67	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
66.20	1.29734	20.51	0.00	7.42	1.66	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
66.00	1.29932	20.52	0.00	7.41	1.66	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
65.80	1.30131	20.53	0.00	7.41	1.66	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
65.60	1.30329	20.54	0.00	7.41	1.66	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
65.40	1.30527	20.54	0.00	7.41	1.65	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
65.20	1.30726	20.55	0.00	7.41	1.65	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
65.00	1.30924	20.56	0.00	7.41	1.65	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.73
64.80	1.31123	20.57	0.00	7.40	1.64	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
64.60	1.31321	20.57	0.00	7.40	1.64	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
64.40	1.31520	20.58	0.00	7.40	1.64	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
64.20	1.31718	20.59	0.00	7.40	1.64	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
64.00	1.31917	20.60	0.00	7.40	1.63	0.00	1.32	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
63.80	1.32115	20.60	0.00	7.40	1.63	0.00	1.33	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
63.60	1.32313	20.61	0.00	7.39	1.63	0.00	1.33	0.21	20.00	0.74	0.06	0.00	0.00	0.00	0.11	2.74
63.40	1.32512	20.62	0.00	7.39	1.62	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.74
63.20	1.32710	20.63	0.00	7.39	1.62	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
63.00	1.32909	20.63	0.00	7.39	1.62	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
62.80	1.33107	20.64	0.00	7.39	1.62	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
62.60	1.33306	20.65	0.00	7.39	1.61	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
62.40	1.33504	20.66	0.00	7.39	1.61	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
62.20	1.33703	20.66	0.00	7.38	1.61	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
62.00	1.33901	20.67	0.00	7.38	1.61	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.75
61.80	1.34099	20.68	0.00	7.38	1.60	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
61.60	1.34298	20.69	0.00	7.38	1.60	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
61.40	1.34496	20.69	0.00	7.38	1.60	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
61.20	1.34695	20.70	0.00	7.38	1.59	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
61.00	1.34893	20.71	0.00	7.38	1.59	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
60.80	1.35092	20.71	0.00	7.38	1.59	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
60.60	1.35290	20.72	0.00	7.37	1.59	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
60.40	1.35489	20.73	0.00	7.37	1.58	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.76
60.20	1.35687	20.74	0.00	7.37	1.58	0.00	1.33	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.77
60.00	1.35886	20.74	0.00	7.37	1.58	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.11	2.77
59.80	1.36084	20.75	0.00	7.37	1.58	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77
59.60	1.36282	20.76	0.00	7.37	1.57	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77
59.40	1.36481	20.77	0.00	7.37	1.57	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77

59.20	1.36679	20.77	0.00	7.37	1.57	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77
59.00	1.36878	20.78	0.00	7.36	1.57	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77
58.80	1.37076	20.79	0.00	7.36	1.56	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.77
58.60	1.37275	20.80	0.00	7.36	1.56	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
58.40	1.37473	20.80	0.00	7.36	1.56	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
58.20	1.37672	20.81	0.00	7.36	1.56	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
58.00	1.37870	20.82	0.00	7.36	1.55	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
57.80	1.38068	20.83	0.00	7.36	1.55	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
57.60	1.38267	20.83	0.00	7.36	1.55	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
57.40	1.38465	20.84	0.00	7.36	1.55	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
57.20	1.38664	20.85	0.00	7.36	1.54	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.78
57.00	1.38862	20.86	0.00	7.35	1.54	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
56.80	1.39061	20.86	0.00	7.35	1.54	0.00	1.34	0.21	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
56.60	1.39259	20.87	0.00	7.35	1.54	0.00	1.34	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
56.40	1.39458	20.88	0.00	7.35	1.53	0.00	1.34	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
56.20	1.39656	20.89	0.00	7.35	1.53	0.00	1.34	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
56.00	1.39854	20.89	0.00	7.35	1.53	0.00	1.34	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
55.80	1.40053	20.90	0.00	7.35	1.53	0.00	1.34	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.79
55.60	1.40251	20.91	0.00	7.35	1.52	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
55.40	1.40450	20.91	0.00	7.35	1.52	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
55.20	1.40648	20.92	0.00	7.35	1.52	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
55.00	1.40847	20.93	0.00	7.34	1.52	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
54.80	1.41045	20.94	0.00	7.34	1.51	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
54.60	1.41244	20.94	0.00	7.34	1.51	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
54.40	1.41442	20.95	0.00	7.34	1.51	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
54.20	1.41640	20.96	0.00	7.34	1.51	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.80
54.00	1.41839	20.97	0.00	7.34	1.50	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
53.80	1.42037	20.97	0.00	7.34	1.50	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
53.60	1.42236	20.98	0.00	7.34	1.50	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
53.40	1.42434	20.99	0.00	7.34	1.50	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
53.20	1.42633	21.00	0.00	7.34	1.49	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
53.00	1.42831	21.00	0.00	7.34	1.49	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
52.80	1.43030	21.01	0.00	7.33	1.49	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
52.60	1.43228	21.02	0.00	7.33	1.49	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.81
52.40	1.43427	21.03	0.00	7.33	1.49	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
52.20	1.43625	21.03	0.00	7.33	1.48	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
52.00	1.43823	21.04	0.00	7.33	1.48	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
51.80	1.44022	21.05	0.00	7.33	1.48	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
51.60	1.44220	21.06	0.00	7.33	1.48	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
51.40	1.44419	21.06	0.00	7.33	1.47	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
51.20	1.44617	21.07	0.00	7.33	1.47	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.82
51.00	1.44816	21.08	0.00	7.33	1.47	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.83
50.80	1.45014	21.09	0.00	7.33	1.47	0.00	1.35	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.83
50.60	1.45213	21.09	0.00	7.32	1.47	0.00	1.36	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.83
50.40	1.45411	21.10	0.00	7.32	1.46	0.00	1.36	0.22	20.00	0.73	0.06	0.00	0.00	0.00	0.12	2.83
50.20	1.45609	21.10	0.00	7.04	2.50	0.00	1.37	0.22	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
50.00	1.45808	21.10	0.00	6.87	3.36	0.00	1.39	0.23	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
49.80	1.46006	21.10	0.00	6.75	4.08	0.00	1.41	0.23	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
49.60	1.46204	21.10	0.00	6.66	4.68	0.00	1.42	0.24	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
49.40	1.46403	21.10	0.00	6.58	5.18	0.00	1.44	0.24	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
49.20	1.46601	21.10	0.00	6.52	5.60	0.00	1.45	0.24	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07

49.00	1.46799	21.10	0.00	6.47	5.95	0.00	1.46	0.25	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
48.80	1.46998	21.10	0.00	6.43	6.24	0.00	1.47	0.25	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
48.60	1.47196	21.10	0.00	6.40	6.48	0.00	1.48	0.25	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
48.40	1.47395	21.10	0.00	6.37	6.68	0.00	1.49	0.26	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
48.20	1.47593	21.10	0.00	6.35	6.85	0.00	1.50	0.26	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
48.00	1.48091	21.10	0.00	6.32	6.98	0.00	1.51	0.26	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
47.80	1.48290	21.10	0.00	6.31	7.10	0.00	1.52	0.26	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
47.60	1.48488	21.10	0.00	6.29	7.20	0.00	1.53	0.26	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
47.40	1.48686	21.10	0.00	6.28	7.28	0.00	1.54	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
47.20	1.48885	21.10	0.00	6.27	7.35	0.00	1.54	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
47.00	1.49083	21.10	0.00	6.26	7.40	0.00	1.55	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
46.80	1.49281	21.10	0.00	6.25	7.45	0.00	1.56	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
46.60	1.49480	21.10	0.00	6.25	7.49	0.00	1.56	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
46.40	1.49678	21.10	0.00	6.24	7.53	0.00	1.57	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
46.20	1.49876	21.10	0.00	6.24	7.56	0.00	1.57	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
46.00	1.50075	21.10	0.00	6.23	7.58	0.00	1.58	0.27	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
45.80	1.50273	21.10	0.00	6.23	7.60	0.00	1.58	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
45.60	1.50471	21.10	0.00	6.23	7.61	0.00	1.59	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
45.40	1.50670	21.10	0.00	6.22	7.63	0.00	1.59	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
45.20	1.50868	21.10	0.00	6.22	7.64	0.00	1.59	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
45.00	1.51067	21.10	0.00	6.22	7.65	0.00	1.60	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
44.80	1.51265	21.10	0.00	6.22	7.66	0.00	1.60	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
44.60	1.51463	21.10	0.00	6.22	7.67	0.00	1.60	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
44.40	1.51662	21.10	0.00	6.21	7.67	0.00	1.61	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
44.20	1.51860	21.10	0.00	6.21	7.68	0.00	1.61	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
44.00	1.52058	21.10	0.00	6.21	7.68	0.00	1.61	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
43.80	1.52257	21.10	0.00	6.21	7.68	0.00	1.61	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
43.60	1.52455	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
43.40	1.52653	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
43.20	1.52852	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
43.00	1.53050	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
42.80	1.53248	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
42.60	1.53447	21.10	0.00	6.21	7.69	0.00	1.62	0.28	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
42.40	1.53645	21.10	0.00	6.21	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
42.20	1.53843	21.10	0.00	6.21	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
42.00	1.54042	21.10	0.00	6.21	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
41.80	1.54240	21.10	0.00	6.20	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
41.60	1.54439	21.10	0.00	6.20	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
41.40	1.54637	21.10	0.00	6.20	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
41.20	1.54835	21.10	0.00	6.20	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
41.00	1.55034	21.10	0.00	6.20	7.70	0.00	1.63	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
40.80	1.55232	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
40.60	1.55430	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
40.40	1.55629	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
40.20	1.55827	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
40.00	1.56025	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
39.80	1.56224	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
39.60	1.56422	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
39.40	1.56620	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
39.20	1.56819	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
39.00	1.57017	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07

38.80	1.57215	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
38.60	1.57414	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
38.40	1.57612	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
38.20	1.57810	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
38.00	1.58009	21.10	0.00	6.20	7.70	0.00	1.64	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
37.80	1.58207	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
37.60	1.58406	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
37.40	1.58604	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
37.20	1.58802	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
37.00	1.59001	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
36.80	1.59199	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
36.60	1.59397	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
36.40	1.59596	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
36.20	1.59794	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
36.00	1.59992	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
35.80	1.60191	21.10	0.00	6.20	7.70	0.00	1.65	0.29	20.00	0.54	0.06	0.00	0.00	0.00	0.12	2.07
35.60	1.60389	21.10	0.00	5.92	7.72	0.00	1.65	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
35.40	1.60588	21.10	0.00	5.82	7.73	0.00	1.65	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
35.20	1.60786	21.10	0.00	5.79	7.74	0.00	1.65	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
35.00	1.60984	21.10	0.00	5.77	7.74	0.00	1.65	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
34.80	1.61183	21.10	0.00	5.77	7.74	0.00	1.65	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
34.60	1.61381	21.10	0.00	5.77	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
34.40	1.61579	21.10	0.00	5.77	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
34.20	1.61778	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
34.00	1.61976	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
33.80	1.62175	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
33.60	1.62373	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
33.40	1.62571	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
33.20	1.62770	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
33.00	1.62968	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
32.80	1.63167	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
32.60	1.63365	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
32.40	1.63563	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
32.20	1.63762	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
32.00	1.63960	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
31.80	1.64158	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
31.60	1.64357	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
31.40	1.64555	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
31.20	1.64754	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
31.00	1.64952	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
30.80	1.65150	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
30.60	1.65349	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
30.40	1.65547	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
30.20	1.65746	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
30.00	1.65944	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
29.80	1.66142	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
29.60	1.66341	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
29.40	1.66539	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
29.20	1.66738	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
29.00	1.66936	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
28.80	1.67134	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12

28.60	1.67333	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
28.40	1.67531	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
28.20	1.67729	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
28.00	1.67928	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
27.80	1.68126	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
27.60	1.68325	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
27.40	1.68523	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
27.20	1.68721	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
27.00	1.68920	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
26.80	1.69118	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
26.60	1.69317	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
26.40	1.69515	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
26.20	1.69713	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
26.00	1.69912	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
25.80	1.70110	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
25.60	1.70309	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
25.40	1.70507	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
25.20	1.70705	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
25.00	1.70904	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
24.80	1.71102	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
24.60	0.85650	21.10	0.00	5.76	7.74	0.00	1.66	0.29	20.00	0.16	0.06	0.00	0.00	0.00	0.11	2.12
24.40	0.85650	21.12	0.00	5.53	7.74	0.00	1.66	0.29	20.42	0.14	0.06	0.00	0.00	0.00	0.11	3.10
24.20	0.85650	21.14	0.00	5.36	7.73	0.00	1.66	0.29	20.85	0.14	0.06	0.00	0.00	0.00	0.11	3.11
24.00	0.85650	21.15	0.00	5.23	7.73	0.00	1.66	0.29	21.27	0.14	0.06	0.00	0.00	0.00	0.11	3.11
23.80	0.85650	21.17	0.00	5.15	7.72	0.00	1.66	0.29	21.70	0.14	0.06	0.00	0.00	0.00	0.11	3.11
23.60	0.85650	21.19	0.00	5.10	7.72	0.00	1.65	0.30	22.12	0.14	0.06	0.00	0.00	0.00	0.11	3.12
23.40	0.85650	21.21	0.00	5.07	7.71	0.00	1.65	0.30	22.55	0.14	0.06	0.00	0.00	0.00	0.11	3.12
23.20	0.85650	21.23	0.00	5.06	7.71	0.00	1.65	0.30	22.97	0.14	0.06	0.00	0.00	0.00	0.11	3.13
23.00	0.85650	21.25	0.00	5.07	7.70	0.00	1.65	0.30	23.39	0.14	0.06	0.00	0.00	0.00	0.11	3.13
22.80	0.85650	21.26	0.00	5.10	7.69	0.00	1.65	0.30	23.82	0.14	0.06	0.00	0.00	0.00	0.11	3.13
22.60	0.85650	21.28	0.00	5.13	7.69	0.00	1.65	0.30	24.24	0.14	0.06	0.00	0.00	0.00	0.11	3.14
22.40	0.85650	21.30	0.00	5.17	7.68	0.00	1.65	0.29	24.67	0.14	0.06	0.00	0.00	0.00	0.11	3.14
22.20	0.85650	21.32	0.00	5.22	7.68	0.00	1.65	0.29	25.09	0.14	0.06	0.00	0.00	0.00	0.11	3.14
22.00	0.85650	21.34	0.00	5.27	7.67	0.00	1.65	0.29	25.52	0.14	0.06	0.00	0.00	0.00	0.11	3.15
21.80	0.85650	21.35	0.00	5.33	7.66	0.00	1.65	0.29	25.94	0.14	0.06	0.00	0.00	0.00	0.12	3.15
21.60	0.85650	21.37	0.00	5.40	7.66	0.00	1.65	0.29	26.36	0.14	0.06	0.00	0.00	0.00	0.12	3.15
21.40	0.85650	21.39	0.00	5.46	7.65	0.00	1.65	0.29	26.79	0.14	0.06	0.00	0.00	0.00	0.12	3.16
21.20	0.85650	21.41	0.00	5.53	7.65	0.00	1.65	0.29	27.21	0.14	0.06	0.00	0.00	0.00	0.12	3.16
21.00	0.85650	21.43	0.00	5.60	7.64	0.00	1.65	0.29	27.64	0.14	0.06	0.00	0.00	0.00	0.12	3.17
20.80	0.85650	21.45	0.00	5.67	7.63	0.00	1.65	0.29	28.06	0.14	0.06	0.00	0.00	0.00	0.12	3.17
20.60	0.85650	21.46	0.00	5.75	7.63	0.00	1.64	0.29	28.48	0.14	0.06	0.00	0.00	0.00	0.12	3.17
20.40	0.85650	21.48	0.00	5.82	7.62	0.00	1.64	0.29	28.91	0.15	0.06	0.00	0.00	0.00	0.12	3.18
20.20	0.85650	21.50	0.00	5.90	7.61	0.00	1.64	0.29	29.33	0.15	0.06	0.00	0.00	0.00	0.12	3.18
20.00	0.85650	21.52	0.00	5.97	7.61	0.00	1.64	0.29	29.76	0.15	0.06	0.00	0.00	0.00	0.12	3.18
19.80	0.85650	21.54	0.00	6.05	7.60	0.00	1.64	0.29	30.18	0.15	0.06	0.00	0.00	0.00	0.12	3.19
19.60	0.85650	21.55	0.00	6.13	7.60	0.00	1.64	0.29	30.61	0.15	0.06	0.00	0.00	0.00	0.12	3.19
19.40	0.85650	21.57	0.00	6.21	7.59	0.00	1.64	0.29	31.03	0.15	0.06	0.00	0.00	0.00	0.12	3.19
19.20	0.85650	21.59	0.00	6.28	7.58	0.00	1.64	0.29	31.45	0.15	0.06	0.00	0.00	0.00	0.12	3.20
19.00	0.85650	21.61	0.00	6.36	7.58	0.00	1.64	0.28	31.88	0.15	0.06	0.00	0.00	0.00	0.12	3.20
18.80	0.85650	21.63	0.00	6.44	7.57	0.00	1.64	0.28	32.30	0.15	0.06	0.00	0.00	0.00	0.12	3.21
18.60	0.85650	21.65	0.00	6.52	7.56	0.00	1.64	0.28	32.73	0.15	0.06	0.00	0.00	0.00	0.12	3.21

18.40	0.85650	21.66	0.00	6.60	7.56	0.00	1.64	0.28	33.15	0.15	0.06	0.00	0.00	0.00	0.12	3.21
18.20	0.85650	21.68	0.00	6.68	7.55	0.00	1.64	0.28	33.58	0.15	0.06	0.00	0.00	0.00	0.12	3.22
18.00	0.85650	21.70	0.00	6.76	7.55	0.00	1.64	0.28	34.00	0.15	0.06	0.00	0.00	0.00	0.12	3.22
17.80	2.46700	21.70	0.00	5.62	4.57	0.00	1.49	0.24	34.80	0.15	0.06	0.00	0.00	0.00	0.12	5.29
17.60	2.46700	21.70	0.00	5.67	4.80	0.00	1.50	0.24	35.60	0.15	0.06	0.00	0.00	0.00	0.12	5.29
17.40	2.46700	21.70	0.00	5.72	5.04	0.00	1.50	0.24	36.40	0.15	0.06	0.00	0.00	0.00	0.12	5.29
17.20	2.46700	21.70	0.00	5.77	5.26	0.00	1.51	0.25	37.20	0.15	0.06	0.00	0.00	0.00	0.12	5.29
17.00	2.46700	21.70	0.00	5.83	5.47	0.00	1.52	0.25	38.00	0.15	0.06	0.00	0.00	0.00	0.12	5.29
16.80	2.46700	21.70	0.00	5.88	5.68	0.00	1.53	0.25	38.80	0.15	0.06	0.00	0.00	0.00	0.12	5.29
16.60	2.46700	21.70	0.00	5.93	5.88	0.00	1.53	0.25	39.60	0.15	0.06	0.00	0.00	0.00	0.12	5.29
16.40	2.46700	21.70	0.00	5.98	6.07	0.00	1.54	0.25	40.40	0.15	0.06	0.00	0.00	0.00	0.12	5.29
16.20	2.46700	21.70	0.00	6.04	6.25	0.00	1.55	0.25	41.20	0.15	0.06	0.00	0.00	0.00	0.12	5.29
16.00	2.46700	21.70	0.00	6.09	6.43	0.00	1.56	0.25	42.00	0.15	0.06	0.00	0.00	0.00	0.12	5.29
15.80	3.32350	21.70	0.00	6.09	9.74	0.00	1.60	0.26	42.31	0.18	0.06	0.00	0.00	0.00	0.12	5.01
15.60	3.32350	21.70	0.00	6.06	9.73	0.00	1.60	0.26	42.62	0.18	0.06	0.00	0.00	0.00	0.12	5.01
15.40	3.32350	21.70	0.00	6.04	9.73	0.00	1.60	0.26	42.92	0.18	0.06	0.00	0.00	0.00	0.12	5.01
15.20	3.32350	21.70	0.00	6.02	9.72	0.00	1.60	0.26	43.23	0.18	0.06	0.00	0.00	0.00	0.12	5.01
15.00	3.32350	21.70	0.00	5.99	9.71	0.00	1.60	0.26	43.54	0.18	0.06	0.00	0.00	0.00	0.12	5.01
14.80	3.32350	21.70	0.00	5.97	9.70	0.00	1.60	0.26	43.85	0.18	0.06	0.00	0.00	0.00	0.12	5.01
14.60	3.32350	21.70	0.00	5.96	9.69	0.00	1.60	0.26	44.15	0.18	0.06	0.00	0.00	0.00	0.12	5.01
14.40	3.32350	21.70	0.00	5.94	9.69	0.00	1.60	0.26	44.46	0.18	0.06	0.00	0.00	0.00	0.12	5.01
14.20	3.32350	21.70	0.00	5.93	9.68	0.00	1.60	0.26	44.77	0.18	0.06	0.00	0.00	0.00	0.12	5.01
14.00	3.32350	21.70	0.00	5.92	9.67	0.00	1.60	0.26	45.08	0.18	0.06	0.00	0.00	0.00	0.12	5.01
13.80	3.32350	21.70	0.00	5.91	9.67	0.00	1.61	0.26	45.38	0.18	0.06	0.00	0.00	0.00	0.12	5.01
13.60	3.32350	21.70	0.00	5.90	9.66	0.00	1.61	0.26	45.69	0.18	0.06	0.00	0.00	0.00	0.12	5.01
13.40	3.32350	21.70	0.00	5.89	9.65	0.00	1.61	0.26	46.00	0.18	0.06	0.00	0.00	0.00	0.12	5.01
13.20	3.32350	21.70	0.00	5.89	9.64	0.00	1.61	0.27	46.31	0.18	0.06	0.00	0.00	0.00	0.12	5.01
13.00	3.32350	21.70	0.00	5.88	9.64	0.00	1.61	0.27	46.62	0.18	0.06	0.00	0.00	0.00	0.12	5.01
12.80	3.32350	21.70	0.00	5.88	9.63	0.00	1.61	0.27	46.92	0.18	0.06	0.00	0.00	0.00	0.12	5.01
12.60	3.32350	21.70	0.00	5.88	9.62	0.00	1.61	0.27	47.23	0.18	0.06	0.00	0.00	0.00	0.12	5.01
12.40	3.32350	21.70	0.00	5.88	9.62	0.00	1.61	0.27	47.54	0.18	0.06	0.00	0.00	0.00	0.12	5.01
12.20	3.32350	21.70	0.00	5.88	9.61	0.00	1.61	0.27	47.85	0.18	0.06	0.00	0.00	0.00	0.12	5.01
12.00	3.32350	21.70	0.00	5.89	9.60	0.00	1.61	0.27	48.15	0.18	0.06	0.00	0.00	0.00	0.12	5.01
11.80	3.32350	21.70	0.00	5.89	9.60	0.00	1.61	0.27	48.46	0.18	0.06	0.00	0.00	0.00	0.12	5.01
11.60	3.32350	21.70	0.00	5.90	9.59	0.00	1.62	0.27	48.77	0.18	0.06	0.00	0.00	0.00	0.12	5.01
11.40	3.32350	21.70	0.00	5.91	9.59	0.00	1.62	0.27	49.08	0.18	0.06	0.00	0.00	0.00	0.12	5.01
11.20	3.32350	21.70	0.00	5.91	9.58	0.00	1.62	0.27	49.38	0.18	0.06	0.00	0.00	0.00	0.12	5.01
11.00	3.32350	21.70	0.00	5.92	9.57	0.00	1.62	0.27	49.69	0.18	0.06	0.00	0.00	0.00	0.12	5.01
10.80	3.32350	21.70	0.00	5.93	9.57	0.00	1.62	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.01
10.60	3.32350	21.70	0.00	5.94	9.64	0.00	1.62	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
10.40	3.32350	21.70	0.00	5.94	9.71	0.00	1.62	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
10.20	3.32350	21.70	0.00	5.95	9.77	0.00	1.62	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
10.00	3.32350	21.70	0.00	5.95	9.84	0.00	1.63	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
9.80	3.32350	21.70	0.00	5.95	9.91	0.00	1.63	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
9.60	3.32350	21.70	0.00	5.95	9.97	0.00	1.63	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
9.40	3.32350	21.70	0.00	5.95	10.04	0.00	1.63	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
9.20	3.32350	21.70	0.00	5.95	10.10	0.00	1.63	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
9.00	3.32350	21.70	0.00	5.94	10.16	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
8.80	3.32350	21.70	0.00	5.94	10.22	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
8.60	3.32350	21.70	0.00	5.94	10.28	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
8.40	3.32350	21.70	0.00	5.93	10.35	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18

8.20	3.32350	21.70	0.00	5.93	10.40	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
8.00	3.32350	21.70	0.00	5.92	10.46	0.00	1.64	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
7.80	3.32350	21.70	0.00	5.92	10.52	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
7.60	3.32350	21.70	0.00	5.91	10.58	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
7.40	3.32350	21.70	0.00	5.90	10.64	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
7.20	3.32350	21.70	0.00	5.90	10.69	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
7.00	3.32350	21.70	0.00	5.89	10.75	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
6.80	3.32350	21.70	0.00	5.88	10.80	0.00	1.65	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
6.60	3.32350	21.70	0.00	5.87	10.86	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
6.40	3.32350	21.70	0.00	5.86	10.91	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
6.20	3.32350	21.70	0.00	5.85	10.96	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
6.00	3.32350	21.70	0.00	5.84	11.01	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
5.80	3.32350	21.70	0.00	5.83	11.07	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
5.60	3.32350	21.70	0.00	5.82	11.12	0.00	1.66	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
5.40	3.32350	21.70	0.00	5.81	11.17	0.00	1.67	0.27	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
5.20	3.32350	21.70	0.00	5.80	11.22	0.00	1.67	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
5.00	3.32350	21.70	0.00	5.79	11.26	0.00	1.67	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
4.80	3.32350	21.70	0.00	5.78	11.31	0.00	1.67	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
4.60	3.32350	21.70	0.00	5.77	11.36	0.00	1.67	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
4.40	3.32350	21.70	0.00	5.76	11.41	0.00	1.67	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
4.20	3.32350	21.70	0.00	5.74	11.45	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
4.00	3.32350	21.70	0.00	5.73	11.50	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
3.80	3.32350	21.70	0.00	5.72	11.54	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
3.60	3.32350	21.70	0.00	5.71	11.59	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
3.40	3.32350	21.70	0.00	5.69	11.63	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
3.20	3.32350	21.70	0.00	5.68	11.68	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
3.00	3.32350	21.70	0.00	5.67	11.72	0.00	1.68	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
2.80	3.32350	21.70	0.00	5.66	11.76	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
2.60	3.32350	21.70	0.00	5.64	11.80	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
2.40	3.32350	21.70	0.00	5.63	11.85	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
2.20	3.32350	21.70	0.00	5.62	11.89	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
2.00	3.32350	21.70	0.00	5.60	11.93	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
1.80	3.32350	21.70	0.00	5.59	11.97	0.00	1.69	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
1.60	3.32350	21.70	0.00	5.58	12.01	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
1.40	3.32350	21.70	0.00	5.56	12.04	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
1.20	3.32350	21.70	0.00	5.55	12.08	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
1.00	3.32350	21.70	0.00	5.54	12.12	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
0.80	3.32350	21.70	0.00	5.52	12.16	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
0.60	3.32350	21.70	0.00	5.51	12.20	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
0.40	3.32350	21.70	0.00	5.49	12.23	0.00	1.70	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
0.20	3.32350	21.70	0.00	5.48	12.27	0.00	1.71	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18
0.00	3.32350	21.70	0.00	5.47	12.30	0.00	1.71	0.28	50.00	0.18	0.06	0.00	0.00	0.00	0.12	5.18

CONDENSED CAPSULE SUMMARY FOR Praire

							REAER	BOD1	BOD1	BOD2	BOD2	NH3				
DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	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	0.85650	21.10	0.00	5.76	7.74	0.00	1.66	0.29	75.00							

5.80	0.85650	21.10	0.00	7.21	10.54	0.00	1.66	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
5.60	0.85650	21.10	0.00	7.28	12.35	0.00	1.66	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
5.40	0.85650	21.10	0.00	7.20	13.53	0.00	1.66	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
5.20	0.85650	21.10	0.00	7.12	14.30	0.00	1.66	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
5.00	0.85650	21.10	0.00	7.07	14.80	0.00	1.66	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
4.80	0.85650	21.10	0.00	7.04	15.12	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
4.60	0.85650	21.10	0.00	7.02	15.33	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
4.40	0.85650	21.10	0.00	7.00	15.47	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
4.20	0.85650	21.10	0.00	6.99	15.56	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
4.00	0.85650	21.10	0.00	6.99	15.62	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
3.80	0.85650	21.10	0.00	6.98	15.65	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
3.60	0.85650	21.10	0.00	6.98	15.68	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
3.40	0.85650	21.10	0.00	6.98	15.69	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
3.20	0.85650	21.10	0.00	6.98	15.70	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
3.00	0.85650	21.10	0.00	6.98	15.71	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
2.80	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
2.60	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
2.40	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
2.20	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
2.00	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
1.80	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
1.60	0.85650	21.10	0.00	6.98	15.72	0.00	1.67	0.29	75.00	0.90	0.08	0.00	0.00	0.00	0.12	2.10
1.40	0.85650	21.18	0.00	7.13	16.25	0.00	1.67	0.29	70.88	0.26	0.08	0.00	0.00	0.00	0.12	1.82
1.20	0.85650	21.25	0.00	7.19	16.75	0.00	1.68	0.29	66.75	0.26	0.08	0.00	0.00	0.00	0.12	1.83
1.00	0.85650	21.33	0.00	7.18	17.23	0.00	1.68	0.29	62.62	0.26	0.09	0.00	0.00	0.00	0.12	1.84
0.80	0.85650	21.40	0.00	7.09	17.69	0.00	1.69	0.29	58.50	0.26	0.09	0.00	0.00	0.00	0.12	1.85
0.60	0.85650	21.48	0.00	6.94	18.12	0.00	1.69	0.29	54.38	0.26	0.09	0.00	0.00	0.00	0.12	1.86
0.40	0.85650	21.55	0.00	6.74	18.54	0.00	1.70	0.29	50.25	0.26	0.09	0.00	0.00	0.00	0.12	1.86
0.20	0.85650	21.62	0.00	6.50	18.93	0.00	1.70	0.29	46.12	0.26	0.09	0.00	0.00	0.00	0.12	1.87
0.00	0.85650	21.70	0.00	6.21	19.31	0.00	1.71	0.29	42.00	0.27	0.09	0.00	0.00	0.00	0.12	1.88

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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
												ADVEC	MEAN		DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3			
		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	0.230	20.1	0.0	5.0	2.2	0.0	1.2	0.2	20.0														
	WASTELOAD # 001 (NPS Letherman Creek) ENTERS HERE																							
1	BL 1	125.40	0.471	20.1	0.0	5.2	2.3	0.0	1.2	0.2	20.0	0.0	1.35	10.1	0.034	0.034	9.1	0.854	0.06	0.00	0.00	0.00	0.11	1.95
2	BL 1	125.20	0.473	20.1	0.0	5.3	2.3	0.0	1.2	0.2	20.0	0.0	1.36	10.1	0.034	0.034	9.1	0.853	0.06	0.00	0.00	0.00	0.11	1.95
3	BL 1	125.00	0.475	20.1	0.0	5.4	2.3	0.0	1.2	0.2	20.0	0.0	1.36	10.2	0.034	0.034	9.1	0.852	0.06	0.00	0.00	0.00	0.11	1.95
4	BL 1	124.80	0.477	20.1	0.0	5.6	2.2	0.0	1.2	0.2	20.0	0.0	1.36	10.2	0.034	0.034	9.1	0.851	0.06	0.00	0.00	0.00	0.11	1.95
5	BL 1	124.60	0.479	20.1	0.0	5.7	2.2	0.0	1.2	0.2	20.0	0.0	1.36	10.2	0.035	0.035	9.1	0.850	0.06	0.00	0.00	0.00	0.11	1.95
6	BL 1	124.40	0.481	20.1	0.0	5.8	2.2	0.0	1.2	0.2	20.0	0.0	1.37	10.2	0.035	0.035	9.1	0.849	0.06	0.00	0.00	0.00	0.11	1.95
7	BL 1	124.20	0.483	20.1	0.0	5.9	2.2	0.0	1.2	0.2	20.0	0.0	1.37	10.2	0.035	0.035	9.1	0.848	0.06	0.00	0.00	0.00	0.11	1.95
8	BL 1	124.00	0.485	20.1	0.0	6.0	2.2	0.0	1.2	0.2	20.0	0.0	1.37	10.2	0.035	0.035	9.1	0.847	0.06	0.00	0.00	0.00	0.11	1.95
9	BL 1	123.80	0.487	20.1	0.0	6.1	2.2	0.0	1.2	0.2	20.0	0.0	1.37	10.2	0.035	0.035	9.1	0.847	0.06	0.00	0.00	0.00	0.11	1.95
10	BL 1	123.60	0.489	20.1	0.0	6.2	2.2	0.0	1.2	0.2	20.0	0.0	1.38	10.2	0.035	0.035	9.1	0.846	0.06	0.00	0.00	0.00	0.11	1.95
11	BL 1	123.40	0.491	20.1	0.0	6.2	2.2	0.0	1.2	0.2	20.0	0.0	1.38	10.2	0.035	0.035	9.1	0.845	0.06	0.00	0.00	0.00	0.11	1.95
12	BL 1	123.20	0.493	20.1	0.0	6.3	2.2	0.0	1.2	0.2	20.0	0.0	1.38	10.2	0.035	0.035	9.1	0.844	0.06	0.00	0.00	0.00	0.11	1.95
13	BL 1	123.00	0.495	20.1	0.0	6.4	2.2	0.0	1.2	0.2	20.0	0.0	1.38	10.2	0.035	0.035	9.1	0.843	0.06	0.00	0.00	0.00	0.11	1.95
14	BL 1	122.80	0.497	20.1	0.0	6.5	2.2	0.0	1.2	0.2	20.0	0.0	1.39	10.2	0.035	0.035	9.1	0.842	0.06	0.00	0.00	0.00	0.11	1.95
15	BL 1	122.60	0.499	20.1	0.0	6.5	2.2	0.0	1.2	0.2	20.0	0.0	1.39	10.2	0.035	0.035	9.1	0.841	0.06	0.00	0.00	0.00	0.11	1.95
16	BL 1	122.40	0.501	20.1	0.0	6.6	2.2	0.0	1.2	0.2	20.0	0.0	1.39	10.2	0.035	0.035	9.1	0.840	0.06	0.00	0.00	0.00	0.11	1.95
17	BL 1	122.20	0.503	20.1	0.0	6.6	2.2	0.0	1.2	0.2	20.0	0.0	1.39	10.2	0.035	0.035	9.1	0.839	0.06	0.00	0.00	0.00	0.11	1.95
18	BL 1	122.00	0.505	20.1	0.0	6.7	2.2	0.0	1.2	0.2	20.0	0.0	1.40	10.2	0.035	0.035	9.1	0.839	0.06	0.00	0.00	0.00	0.11	1.95
19	BL 1	121.80	0.507	20.1	0.0	6.7	2.2	0.0	1.2	0.2	20.0	0.0	1.40	10.2	0.035	0.035	9.1	0.838	0.06	0.00	0.00	0.00	0.11	1.95
20	BL 1	121.60	0.509	20.1	0.0	6.8	2.2	0.0	1.2	0.2	20.0	0.0	1.40	10.2	0.035	0.035	9.1	0.837	0.06	0.00	0.00	0.00	0.11	1.95
21	BL 1	121.40	0.511	20.1	0.0	6.8	2.2	0.0	1.2	0.2	20.0	0.0	1.40	10.2	0.036	0.036	9.1	0.836	0.06	0.00	0.00	0.00	0.11	1.95
22	BL 1	121.20	0.513	20.1	0.0	6.9	2.2	0.0	1.2	0.2	20.0	0.0	1.41	10.2	0.036	0.036	9.1	0.835	0.06	0.00	0.00	0.00	0.11	1.95
23	BL 1	121.00	0.515	20.1	0.0	6.9	2.2	0.0	1.2	0.2	20.0	0.0	1.41	10.2	0.036	0.036	9.1	0.834	0.06	0.00	0.00	0.00	0.11	1.95
24	BL 1	120.80	0.517	20.1	0.0	7.0	2.2	0.0	1.2	0.2	20.0	0.0	1.41	10.3	0.036	0.036	9.1	0.833	0.06	0.00	0.00	0.00	0.11	1.95
25	BL 1	120.60	0.519	20.1	0.0	7.0	2.2	0.0	1.2	0.2	20.0	0.0	1.41	10.3	0.036	0.036	9.1	0.833	0.06	0.00	0.00	0.00	0.11	1.95
26	BL 1	120.40	0.521	20.1	0.0	7.0	2.1	0.0	1.2	0.2	20.0	0.0	1.42	10.3	0.036	0.036	9.1	0.832	0.06	0.00	0.00	0.00	0.11	1.95
27	BL 1	120.20	0.523	20.1	0.0	7.1	2.1	0.0	1.2	0.2	20.0	0.0	1.42	10.3	0.036	0.036	9.1	0.831	0.06	0.00	0.00	0.00	0.11	1.95
28	BL 1	120.00	0.525	20.1	0.0	7.1	2.1	0.0	1.2	0.2	20.0	0.0	1.42	10.3	0.036	0.036	9.1	0.830	0.06	0.00	0.00	0.00	0.11	1.95
29	BL 1	119.80	0.527	20.1	0.0	7.1	2.1	0.0	1.2	0.2	20.0	0.0	1.42	10.3	0.036	0.036	9.1	0.829	0.06	0.00	0.00	0.00	0.11	1.95
30	BL 1	119.60	0.529	20.1	0.0	7.1	2.1	0.0	1.2	0.2	20.0	0.0	1.43	10.3	0.036	0.036	9.1	0.828	0.06	0.00	0.00	0.00	0.11	1.95
31	BL 1	119.40	0.531	20.1	0.0	7.2	2.1	0.0	1.2	0.2	20.0	0.0	1.43	10.3	0.036	0.036	9.1	0.828	0.06	0.00	0.00	0.00	0.11	1.95
32	BL 1	119.20	0.532	20.1	0.0	7.2	2.1	0.0	1.2	0.2	20.0	0.0	1.43	10.3	0.036	0.036	9.1	0.827	0.06	0.00	0.00	0.00	0.11	1.95
33	BL 1	119.00	0.534	20.1	0.0	7.2	2.1	0.0	1.2	0.2	20.0	0.0	1.43	10.3	0.036	0.036	9.1	0.826	0.06	0.00	0.00	0.00	0.11	1.95
34	BL 1	118.80	0.536	20.1	0.0	7.2	2.1	0.0	1.3	0.2	20.0	0.0	1.44	10.3	0.036	0.036	9.1	0.825	0.06	0.00	0.00	0.00	0.11	1.95
35	BL 1	118.60	0.538	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.44	10.3	0.036	0.036	9.1	0.824	0.06	0.00	0.00	0.00	0.11	1.95
36	BL 1	118.40	0.540	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.44	10.3	0.036	0.036	9.1	0.824	0.06	0.00	0.00	0.00	0.11	1.95
37	BL 1	118.20	0.542	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.44	10.3	0.036	0.036	9.1	0.823	0.06	0.00	0.00	0.00	0.11	1.95
38	BL 1	118.00	0.544	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.45	10.3	0.037	0.037	9.1	0.822	0.06	0.00	0.00	0.00	0.11	1.95
39	BL 1	117.80	0.546	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.45	10.3	0.037	0.037	9.1	0.821	0.06	0.00	0.00	0.00	0.11	1.95
40	BL 1	117.60	0.548	20.1	0.0	7.3	2.1	0.0	1.3	0.2	20.0	0.0	1.45	10.3	0.037	0.037	9.1	0.820	0.06	0.00	0.00	0.00	0.11	1.95
41	BL 1	117.40	0.550	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.45	10.3	0.037	0.037	9.1	0.820	0.06	0.00	0.00	0.00	0.11	1.95
42	BL 1	117.20	0.552	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.45	10.3	0.037	0.037	9.1	0.819	0.06	0.00	0.00	0.00	0.11	1.95
43	BL 1	117.00	0.554	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.46	10.3	0.037	0.037	9.1	0.818	0.06	0.00	0.00	0.00	0.11	1.95

44	BL	1	116.80	0.556	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.46	10.3	0.037	0.037	9.1	0.817	0.06	0.00	0.00	0.00	0.11	1.95
45	BL	1	116.60	0.558	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.46	10.4	0.037	0.037	9.1	0.817	0.06	0.00	0.00	0.00	0.11	1.95
46	BL	1	116.40	0.560	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.46	10.4	0.037	0.037	9.1	0.816	0.06	0.00	0.00	0.00	0.11	1.95
47	BL	1	116.20	0.562	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.47	10.4	0.037	0.037	9.1	0.815	0.06	0.00	0.00	0.00	0.11	1.95
48	BL	1	116.00	0.564	20.1	0.0	7.4	2.1	0.0	1.3	0.2	20.0	0.0	1.47	10.4	0.037	0.037	9.1	0.814	0.06	0.00	0.00	0.00	0.11	1.95
49	BL	1	115.80	0.566	20.1	0.0	7.5	2.1	0.0	1.3	0.2	20.0	0.0	1.47	10.4	0.037	0.037	9.1	0.814	0.06	0.00	0.00	0.00	0.11	1.95
50	BL	1	115.60	0.568	20.1	0.0	7.5	2.1	0.0	1.3	0.2	20.0	0.0	1.47	10.4	0.037	0.037	9.1	0.813	0.06	0.00	0.00	0.00	0.11	1.95
51	BL	1	115.40	0.570	20.1	0.0	7.5	2.1	0.0	1.3	0.2	20.0	0.0	1.48	10.4	0.037	0.037	9.1	0.812	0.06	0.00	0.00	0.00	0.11	1.95
52	BL	1	115.20	0.572	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.48	10.4	0.037	0.037	9.1	0.811	0.06	0.00	0.00	0.00	0.11	1.95
53	BL	1	115.00	0.574	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.48	10.4	0.037	0.037	9.1	0.811	0.06	0.00	0.00	0.00	0.11	1.95
54	BL	1	114.80	0.576	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.48	10.4	0.037	0.037	9.1	0.810	0.06	0.00	0.00	0.00	0.11	1.95
55	BL	1	114.60	0.578	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.48	10.4	0.037	0.037	9.1	0.809	0.06	0.00	0.00	0.00	0.11	1.95
56	BL	1	114.40	0.580	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.49	10.4	0.038	0.038	9.1	0.809	0.06	0.00	0.00	0.00	0.11	1.95
57	BL	1	114.20	0.582	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.49	10.4	0.038	0.038	9.1	0.808	0.06	0.00	0.00	0.00	0.11	1.95
58	BL	1	114.00	0.584	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.49	10.4	0.038	0.038	9.1	0.807	0.06	0.00	0.00	0.00	0.11	1.95
59	BL	1	113.80	0.586	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.49	10.4	0.038	0.038	9.1	0.806	0.06	0.00	0.00	0.00	0.11	1.95
60	BL	1	113.60	0.588	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.50	10.4	0.038	0.038	9.1	0.806	0.06	0.00	0.00	0.00	0.11	1.95
61	BL	1	113.40	0.590	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.50	10.4	0.038	0.038	9.1	0.805	0.06	0.00	0.00	0.00	0.11	1.95
62	BL	1	113.20	0.592	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.50	10.4	0.038	0.038	9.1	0.804	0.06	0.00	0.00	0.00	0.11	1.95
63	BL	1	113.00	0.594	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.50	10.4	0.038	0.038	9.1	0.804	0.06	0.00	0.00	0.00	0.11	1.95
64	BL	1	112.80	0.596	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.51	10.4	0.038	0.038	9.1	0.803	0.06	0.00	0.00	0.00	0.11	1.95
65	BL	1	112.60	0.598	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.51	10.4	0.038	0.038	9.1	0.802	0.06	0.00	0.00	0.00	0.11	1.95
66	BL	1	112.40	0.600	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.51	10.4	0.038	0.038	9.1	0.802	0.06	0.00	0.00	0.00	0.11	1.95
67	BL	1	112.20	0.602	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.51	10.4	0.038	0.038	9.1	0.801	0.06	0.00	0.00	0.00	0.11	1.95
68	BL	1	112.00	0.604	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.51	10.4	0.038	0.038	9.1	0.800	0.06	0.00	0.00	0.00	0.11	1.95
69	BL	1	111.80	0.606	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.52	10.5	0.038	0.038	9.1	0.800	0.06	0.00	0.00	0.00	0.11	1.95
70	BL	1	111.60	0.608	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.52	10.5	0.038	0.038	9.1	0.799	0.06	0.00	0.00	0.00	0.11	1.95
71	BL	2	111.40	0.610	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.21	11.2	0.045	0.045	9.1	1.083	0.06	0.00	0.00	0.00	0.11	2.17
72	BL	2	111.20	0.612	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.21	11.2	0.045	0.045	9.1	1.082	0.06	0.00	0.00	0.00	0.11	2.17

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	ADVEC DISP m²/s	MEAN DEPTH m	DO WIDTH m	REAER VELO m/s	BOD1 VELO m/s	BOD1 SAT mg/L	BOD2 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	SOD DECA 1/da	SOD g/m²/d
73	BL 2	111.00	0.614	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.21	11.2	0.045	0.045	9.1	1.082	0.06	0.00	0.00	0.00	0.11	2.17
74	BL 2	110.80	0.616	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.21	11.2	0.045	0.045	9.1	1.081	0.06	0.00	0.00	0.00	0.11	2.17
75	BL 2	110.60	0.618	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.2	0.045	0.045	9.1	1.080	0.06	0.00	0.00	0.00	0.11	2.17
76	BL 2	110.40	0.620	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.2	0.045	0.045	9.1	1.079	0.06	0.00	0.00	0.00	0.11	2.17
77	BL 2	110.20	0.622	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.2	0.045	0.045	9.1	1.078	0.06	0.00	0.00	0.00	0.11	2.17
78	BL 2	110.00	0.624	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.2	0.045	0.045	9.1	1.078	0.06	0.00	0.00	0.00	0.11	2.17
79	BL 2	109.80	0.626	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.2	0.045	0.045	9.1	1.077	0.06	0.00	0.00	0.00	0.11	2.17
80	BL 2	109.60	0.628	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.22	11.3	0.046	0.046	9.1	1.076	0.06	0.00	0.00	0.00	0.11	2.17
81	BL 2	109.40	0.630	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.075	0.06	0.00	0.00	0.00	0.11	2.17
82	BL 2	109.20	0.632	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.074	0.06	0.00	0.00	0.00	0.11	2.17
83	BL 2	109.00	0.634	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.074	0.06	0.00	0.00	0.00	0.11	2.17
84	BL 2	108.80	0.636	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.073	0.06	0.00	0.00	0.00	0.11	2.17
85	BL 2	108.60	0.638	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.072	0.06	0.00	0.00	0.00	0.11	2.17
86	BL 2	108.40	0.640	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.23	11.3	0.046	0.046	9.1	1.071	0.06	0.00	0.00	0.00	0.11	2.17
87	BL 2	108.20	0.642	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.24	11.3	0.046	0.046	9.1	1.070	0.06	0.00	0.00	0.00	0.11	2.17
88	BL 2	108.00	0.644	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.24	11.3	0.046	0.046	9.1	1.070	0.06	0.00	0.00	0.00	0.11	2.17
89	BL 2	107.80	0.646	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.24	11.3	0.046	0.046	9.1	1.069	0.06	0.00	0.00	0.00	0.11	2.17
90	BL 2	107.60	0.648	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.24	11.3	0.046	0.046	9.1	1.068	0.06	0.00	0.00	0.00	0.11	2.17
91	BL 2	107.40	0.650	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.24	11.3	0.046	0.046	9.1	1.067	0.06	0.00	0.00	0.00	0.11	2.17
92	BL 2	107.20	0.652	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.046	0.046	9.1	1.066	0.06	0.00	0.00	0.00	0.11	2.17
93	BL 2	107.00	0.654	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.046	0.046	9.1	1.066	0.06	0.00	0.00	0.00	0.11	2.17
94	BL 2	106.80	0.656	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.046	0.046	9.1	1.065	0.06	0.00	0.00	0.00	0.11	2.17
95	BL 2	106.60	0.658	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.046	0.046	9.1	1.064	0.06	0.00	0.00	0.00	0.11	2.17
96	BL 2	106.40	0.659	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.047	0.047	9.1	1.063	0.06	0.00	0.00	0.00	0.11	2.17
97	BL 2	106.20	0.661	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.25	11.3	0.047	0.047	9.1	1.063	0.06	0.00	0.00	0.00	0.11	2.17
98	BL 2	106.00	0.663	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.062	0.06	0.00	0.00	0.00	0.11	2.17
99	BL 2	105.80	0.665	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.061	0.06	0.00	0.00	0.00	0.11	2.17
100	BL 2	105.60	0.667	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.060	0.06	0.00	0.00	0.00	0.11	2.17
101	BL 2	105.40	0.669	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.060	0.06	0.00	0.00	0.00	0.11	2.17
102	BL 2	105.20	0.671	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.059	0.06	0.00	0.00	0.00	0.11	2.17
103	BL 2	105.00	0.673	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.26	11.3	0.047	0.047	9.1	1.058	0.06	0.00	0.00	0.00	0.11	2.17
104	BL 2	104.80	0.675	20.1	0.0	7.6	2.0	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.058	0.06	0.00	0.00	0.00	0.11	2.17
105	BL 2	104.60	0.677	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.057	0.06	0.00	0.00	0.00	0.11	2.17
106	BL 2	104.40	0.679	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.056	0.06	0.00	0.00	0.00	0.11	2.17
107	BL 2	104.20	0.681	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.055	0.06	0.00	0.00	0.00	0.11	2.17
108	BL 2	104.00	0.683	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.055	0.06	0.00	0.00	0.00	0.11	2.17
109	BL 2	103.80	0.685	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.27	11.4	0.047	0.047	9.1	1.054	0.06	0.00	0.00	0.00	0.11	2.17
110	BL 2	103.60	0.687	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.047	0.047	9.1	1.053	0.06	0.00	0.00	0.00	0.11	2.17
111	BL 2	103.40	0.689	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.047	0.047	9.1	1.053	0.06	0.00	0.00	0.00	0.11	2.17
112	BL 2	103.20	0.691	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.047	0.047	9.1	1.052	0.06	0.00	0.00	0.00	0.11	2.17
113	BL 2	103.00	0.693	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.048	0.048	9.1	1.051	0.06	0.00	0.00	0.00	0.11	2.17
114	BL 2	102.80	0.695	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.048	0.048	9.1	1.050	0.06	0.00	0.00	0.00	0.11	2.17
115	BL 2	102.60	0.697	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.28	11.4	0.048	0.048	9.1	1.050	0.06	0.00	0.00	0.00	0.11	2.17
116	BL 2	102.40	0.699	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.29	11.4	0.048	0.048	9.1	1.049	0.06	0.00	0.00	0.00	0.11	2.17
117	BL 2	102.20	0.701	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.29	11.4	0.048	0.048	9.1	1.048	0.06	0.00	0.00	0.00	0.11	2.17

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118 BL  2  102.00   0.703 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.29  11.4  0.048  0.048   9.1  1.048 0.06 0.00 0.00 0.00 0.11  2.17
      WASTELOAD # 119 (NPS Kepler Creek) ENTERS HERE
119 BL  2  101.80   0.802 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.017 0.06 0.00 0.00 0.00 0.11  2.17
120 BL  2  101.60   0.804 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.016 0.06 0.00 0.00 0.00 0.11  2.17
121 BL  2  101.40   0.806 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.015 0.06 0.00 0.00 0.00 0.11  2.17
122 BL  2  101.20   0.808 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.015 0.06 0.00 0.00 0.00 0.11  2.17
123 BL  2  101.00   0.810 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.014 0.06 0.00 0.00 0.00 0.11  2.17
124 BL  2  100.80   0.812 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.37  11.6  0.051  0.051   9.1  1.014 0.06 0.00 0.00 0.00 0.11  2.17
125 BL  2  100.60   0.814 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.013 0.06 0.00 0.00 0.00 0.11  2.17
126 BL  2  100.40   0.816 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.013 0.06 0.00 0.00 0.00 0.11  2.17
127 BL  2  100.20   0.818 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.012 0.06 0.00 0.00 0.00 0.11  2.17
128 BL  2  100.00   0.820 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.012 0.06 0.00 0.00 0.00 0.11  2.17
129 BL  2   99.80   0.822 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.011 0.06 0.00 0.00 0.00 0.11  2.17
130 BL  2   99.60   0.824 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.38  11.6  0.051  0.051   9.1  1.010 0.06 0.00 0.00 0.00 0.11  2.17
131 BL  2   99.40   0.826 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.051  0.051   9.1  1.010 0.06 0.00 0.00 0.00 0.11  2.17
132 BL  2   99.20   0.828 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.051  0.051   9.1  1.009 0.06 0.00 0.00 0.00 0.11  2.17
133 BL  2   99.00   0.830 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.051  0.051   9.1  1.009 0.06 0.00 0.00 0.00 0.11  2.17
134 BL  2   98.80   0.832 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.051  0.051   9.1  1.008 0.06 0.00 0.00 0.00 0.11  2.17
135 BL  2   98.60   0.834 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.051  0.051   9.1  1.008 0.06 0.00 0.00 0.00 0.11  2.17
136 BL  2   98.40   0.836 20.1  0.0  7.5  2.0  0.0  1.3  0.2 20.0   0.0  1.39  11.6  0.052  0.052   9.1  1.007 0.06 0.00 0.00 0.00 0.11  2.17
137 BL  2   98.20   0.838 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.39  11.7  0.052  0.052   9.1  1.007 0.06 0.00 0.00 0.00 0.11  2.17
138 BL  2   98.00   0.840 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.40  11.7  0.052  0.052   9.1  1.006 0.06 0.00 0.00 0.00 0.11  2.17
139 BL  2   97.80   0.842 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.40  11.7  0.052  0.052   9.1  1.006 0.06 0.00 0.00 0.00 0.11  2.17
140 BL  2   97.60   0.844 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.40  11.7  0.052  0.052   9.1  1.005 0.06 0.00 0.00 0.00 0.11  2.17
141 BL  2   97.40   0.846 20.1  0.0  7.6  1.9  0.0  1.3  0.2 20.0   0.0  1.40  11.7  0.052  0.052   9.1  1.005 0.06 0.00 0.00 0.00 0.11  2.17
      WASTELOAD # 142 (NPS FourMile Creek) ENTERS HERE
142 BL  2   97.20   0.914 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.45  11.8  0.054  0.054   9.1  0.987 0.06 0.00 0.00 0.00 0.11  2.17
143 BL  2   97.00   0.916 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.45  11.8  0.054  0.054   9.1  0.987 0.06 0.00 0.00 0.00 0.11  2.17
144 BL  2   96.80   0.918 20.1  0.0  7.4  2.0  0.0  1.3  0.2 20.0   0.0  1.45  11.8  0.054  0.054   9.1  0.987 0.06 0.00 0.00 0.00 0.11  2.17
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EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	ADVEC DISP m²/s	MEAN DEPTH m	DO WIDTH m	REAER VELO m/s	BOD1 VELO m/s	BOD1 SAT mg/L	BOD2 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	SOD g/m²/d
145	BL 2	96.60	0.920	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.45	11.8	0.054	0.054	9.1	0.986	0.06	0.00	0.00	0.00	0.11	2.17
146	BL 2	96.40	0.922	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.986	0.06	0.00	0.00	0.00	0.11	2.17
147	BL 2	96.20	0.924	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.985	0.06	0.00	0.00	0.00	0.11	2.17
148	BL 2	96.00	0.926	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.985	0.06	0.00	0.00	0.00	0.11	2.17
149	BL 2	95.80	0.928	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.984	0.06	0.00	0.00	0.00	0.11	2.17
150	BL 2	95.60	0.930	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.984	0.06	0.00	0.00	0.00	0.11	2.17
151	BL 2	95.40	0.932	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.983	0.06	0.00	0.00	0.00	0.11	2.17
152	BL 2	95.20	0.934	20.1	0.0	7.5	2.0	0.0	1.3	0.2	20.0	0.0	1.46	11.8	0.054	0.054	9.1	0.983	0.06	0.00	0.00	0.00	0.11	2.17
153	BL 2	95.00	0.936	20.1	0.0	7.5	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.982	0.06	0.00	0.00	0.00	0.11	2.17
154	BL 2	94.80	0.938	20.1	0.0	7.5	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.982	0.06	0.00	0.00	0.00	0.11	2.17
155	BL 2	94.60	0.940	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.981	0.06	0.00	0.00	0.00	0.11	2.17
156	BL 2	94.40	0.942	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.981	0.06	0.00	0.00	0.00	0.11	2.17
157	BL 2	94.20	0.944	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.981	0.06	0.00	0.00	0.00	0.11	2.17
158	BL 2	94.00	0.946	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.980	0.06	0.00	0.00	0.00	0.11	2.17
159	BL 2	93.80	0.947	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.47	11.8	0.054	0.054	9.1	0.980	0.06	0.00	0.00	0.00	0.11	2.17
160	BL 2	93.60	0.949	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.054	0.054	9.1	0.979	0.06	0.00	0.00	0.00	0.11	2.17
161	BL 2	93.40	0.951	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.054	0.054	9.1	0.979	0.06	0.00	0.00	0.00	0.11	2.17
162	BL 2	93.20	0.953	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.978	0.06	0.00	0.00	0.00	0.11	2.17
163	BL 2	93.00	0.955	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.978	0.06	0.00	0.00	0.00	0.11	2.17
164	BL 2	92.80	0.957	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.977	0.06	0.00	0.00	0.00	0.11	2.17
165	BL 2	92.60	0.959	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.977	0.06	0.00	0.00	0.00	0.11	2.17
166	BL 2	92.40	0.961	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.977	0.06	0.00	0.00	0.00	0.11	2.17
167	BL 2	92.20	0.963	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.48	11.8	0.055	0.055	9.1	0.976	0.06	0.00	0.00	0.00	0.11	2.17
168	BL 2	92.00	0.965	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.8	0.055	0.055	9.1	0.976	0.06	0.00	0.00	0.00	0.11	2.17
169	BL 2	91.80	0.967	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.975	0.06	0.00	0.00	0.00	0.11	2.17
170	BL 2	91.60	0.969	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.975	0.06	0.00	0.00	0.00	0.11	2.17
171	BL 2	91.40	0.971	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.974	0.06	0.00	0.00	0.00	0.11	2.17
172	BL 2	91.20	0.973	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.974	0.06	0.00	0.00	0.00	0.11	2.17
173	BL 2	91.00	0.975	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.974	0.06	0.00	0.00	0.00	0.11	2.17
174	BL 2	90.80	0.977	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.49	11.9	0.055	0.055	9.1	0.973	0.06	0.00	0.00	0.00	0.11	2.17
175	BL 2	90.60	0.979	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.973	0.06	0.00	0.00	0.00	0.11	2.17
176	BL 2	90.40	0.981	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.972	0.06	0.00	0.00	0.00	0.11	2.17
177	BL 2	90.20	0.983	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.972	0.06	0.00	0.00	0.00	0.11	2.17
178	BL 2	90.00	0.985	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.971	0.06	0.00	0.00	0.00	0.11	2.17
179	BL 2	89.80	0.987	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.971	0.06	0.00	0.00	0.00	0.11	2.17
180	BL 2	89.60	0.989	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.971	0.06	0.00	0.00	0.00	0.11	2.17
181	BL 2	89.40	0.991	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.50	11.9	0.055	0.055	9.1	0.970	0.06	0.00	0.00	0.00	0.11	2.17
182	BL 2	89.20	0.993	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.055	0.055	9.1	0.970	0.06	0.00	0.00	0.00	0.11	2.17
183	BL 2	89.00	0.995	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.969	0.06	0.00	0.00	0.00	0.11	2.17
184	BL 2	88.80	0.997	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.969	0.06	0.00	0.00	0.00	0.11	2.17
185	BL 2	88.60	0.999	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.968	0.06	0.00	0.00	0.00	0.11	2.17
186	BL 2	88.40	1.001	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.968	0.06	0.00	0.00	0.00	0.11	2.17
187	BL 2	88.20	1.003	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.968	0.06	0.00	0.00	0.00	0.11	2.17
188	BL 2	88.00	1.005	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.967	0.06	0.00	0.00	0.00	0.11	2.17
189	BL 2	87.80	1.007	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.51	11.9	0.056	0.056	9.1	0.967	0.06	0.00	0.00	0.00	0.11	2.17

190	BL	2	87.60	1.009	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.966	0.06	0.00	0.00	0.00	0.11	2.17
191	BL	2	87.40	1.011	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.966	0.06	0.00	0.00	0.00	0.11	2.17
192	BL	2	87.20	1.013	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.966	0.06	0.00	0.00	0.00	0.11	2.17
193	BL	2	87.00	1.015	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.965	0.06	0.00	0.00	0.00	0.11	2.17
194	BL	2	86.80	1.017	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.965	0.06	0.00	0.00	0.00	0.11	2.17
195	BL	2	86.60	1.019	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.964	0.06	0.00	0.00	0.00	0.11	2.17
196	BL	2	86.40	1.021	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.52	11.9	0.056	0.056	9.1	0.964	0.06	0.00	0.00	0.00	0.11	2.17
197	BL	2	86.20	1.023	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.964	0.06	0.00	0.00	0.00	0.11	2.17
198	BL	2	86.00	1.025	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.963	0.06	0.00	0.00	0.00	0.11	2.17
199	BL	2	85.80	1.027	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.963	0.06	0.00	0.00	0.00	0.11	2.17
200	BL	2	85.60	1.029	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.962	0.06	0.00	0.00	0.00	0.11	2.17
201	BL	2	85.40	1.031	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.962	0.06	0.00	0.00	0.00	0.11	2.17
202	BL	2	85.20	1.033	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.962	0.06	0.00	0.00	0.00	0.11	2.17
203	BL	2	85.00	1.035	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.53	11.9	0.056	0.056	9.1	0.961	0.06	0.00	0.00	0.00	0.11	2.17
204	BL	2	84.80	1.037	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.53	12.0	0.057	0.057	9.1	0.961	0.06	0.00	0.00	0.00	0.11	2.17
205	BL	2	84.60	1.039	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.960	0.06	0.00	0.00	0.00	0.11	2.17
206	BL	2	84.40	1.041	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.960	0.06	0.00	0.00	0.00	0.11	2.17
207	BL	2	84.20	1.043	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.960	0.06	0.00	0.00	0.00	0.11	2.17
208	BL	2	84.00	1.045	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.959	0.06	0.00	0.00	0.00	0.11	2.17
209	BL	2	83.80	1.047	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.959	0.06	0.00	0.00	0.00	0.11	2.17
210	BL	2	83.60	1.049	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.958	0.06	0.00	0.00	0.00	0.11	2.17
211	BL	2	83.40	1.051	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.54	12.0	0.057	0.057	9.1	0.958	0.06	0.00	0.00	0.00	0.11	2.17
212	BL	2	83.20	1.053	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.958	0.06	0.00	0.00	0.00	0.11	2.17
213	BL	2	83.00	1.055	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.957	0.06	0.00	0.00	0.00	0.11	2.17
214	BL	2	82.80	1.057	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.957	0.06	0.00	0.00	0.00	0.11	2.17
215	BL	2	82.60	1.059	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.957	0.06	0.00	0.00	0.00	0.11	2.17
216	BL	2	82.40	1.061	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.956	0.06	0.00	0.00	0.00	0.11	2.17
217	BL	2	82.20	1.063	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.956	0.06	0.00	0.00	0.00	0.11	2.17
218	BL	2	82.00	1.065	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.955	0.06	0.00	0.00	0.00	0.11	2.17

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

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	SOD DECA	SOD SETT	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	1/da	g/m²/d
219	BL 2	81.80	1.067	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.55	12.0	0.057	0.057	9.1	0.955	0.06	0.00	0.00	0.00	0.11	2.17
220	BL 2	81.60	1.069	20.1	0.0	7.8	1.9	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.955	0.06	0.00	0.00	0.00	0.11	2.17
221	BL 2	81.40	1.071	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.954	0.06	0.00	0.00	0.00	0.11	2.17
222	BL 2	81.20	1.073	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.954	0.06	0.00	0.00	0.00	0.11	2.17
223	BL 2	81.00	1.074	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.953	0.06	0.00	0.00	0.00	0.11	2.17
224	BL 2	80.80	1.076	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.953	0.06	0.00	0.00	0.00	0.11	2.17
225	BL 2	80.60	1.078	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.057	0.057	9.1	0.953	0.06	0.00	0.00	0.00	0.11	2.17
226	BL 2	80.40	1.080	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.058	0.058	9.1	0.952	0.06	0.00	0.00	0.00	0.11	2.17
227	BL 2	80.20	1.082	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.56	12.0	0.058	0.058	9.1	0.952	0.06	0.00	0.00	0.00	0.11	2.17
228	BL 2	80.00	1.084	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.57	12.0	0.058	0.058	9.1	0.952	0.06	0.00	0.00	0.00	0.11	2.17
229	BL 2	79.80	1.086	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.57	12.0	0.058	0.058	9.1	0.951	0.06	0.00	0.00	0.00	0.11	2.17
230	BL 2	79.60	1.088	20.1	0.0	7.8	1.8	0.0	1.3	0.2	20.0	0.0	1.57	12.0	0.058	0.058	9.1	0.951	0.06	0.00	0.00	0.00	0.11	2.17
WASTELOAD # 231 (NPS Castor Creek) ENTERS HERE																									
231	BL 2	79.40	1.166	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.059	0.059	9.1	0.937	0.06	0.00	0.00	0.00	0.11	2.17
232	BL 2	79.20	1.168	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.060	0.060	9.1	0.937	0.06	0.00	0.00	0.00	0.11	2.17
233	BL 2	79.00	1.170	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.060	0.060	9.1	0.937	0.06	0.00	0.00	0.00	0.11	2.17
234	BL 2	78.80	1.172	20.1	0.0	7.6	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.060	0.060	9.1	0.936	0.06	0.00	0.00	0.00	0.11	2.17
235	BL 2	78.60	1.174	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.060	0.060	9.1	0.936	0.06	0.00	0.00	0.00	0.11	2.17
236	BL 2	78.40	1.176	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.62	12.1	0.060	0.060	9.1	0.936	0.06	0.00	0.00	0.00	0.11	2.17
237	BL 2	78.20	1.178	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.63	12.1	0.060	0.060	9.1	0.935	0.06	0.00	0.00	0.00	0.11	2.17
238	BL 2	78.00	1.180	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.63	12.1	0.060	0.060	9.1	0.935	0.06	0.00	0.00	0.00	0.11	2.17
239	BL 2	77.80	1.182	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.63	12.1	0.060	0.060	9.1	0.935	0.06	0.00	0.00	0.00	0.11	2.17
240	BL 2	77.60	1.184	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.63	12.1	0.060	0.060	9.1	0.934	0.06	0.00	0.00	0.00	0.11	2.17
241	BL 2	77.40	1.186	20.1	0.0	7.7	1.9	0.0	1.3	0.2	20.0	0.0	1.63	12.1	0.060	0.060	9.1	0.934	0.06	0.00	0.00	0.00	0.11	2.17
242	BL 3	77.20	1.188	20.1	0.0	7.7	1.8	0.0	1.3	0.2	20.0	0.0	1.79	14.1	0.047	0.047	9.1	0.746	0.06	0.00	0.00	0.00	0.11	2.66
243	BL 3	77.00	1.190	20.1	0.0	7.7	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.746	0.06	0.00	0.00	0.00	0.11	2.66
244	BL 3	76.80	1.192	20.1	0.0	7.7	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.746	0.06	0.00	0.00	0.00	0.11	2.66
245	BL 3	76.60	1.194	20.1	0.0	7.7	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.746	0.06	0.00	0.00	0.00	0.11	2.66
246	BL 3	76.40	1.196	20.1	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.66
247	BL 3	76.20	1.198	20.1	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.66
248	BL 3	76.00	1.200	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.67
249	BL 3	75.80	1.202	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.67
250	BL 3	75.60	1.204	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.80	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.67
251	BL 3	75.40	1.206	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.745	0.06	0.00	0.00	0.00	0.11	2.67
252	BL 3	75.20	1.208	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.67
253	BL 3	75.00	1.210	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.67
254	BL 3	74.80	1.212	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.67
255	BL 3	74.60	1.214	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.67
256	BL 3	74.40	1.216	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.047	0.047	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.68
257	BL 3	74.20	1.218	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.81	14.1	0.048	0.048	9.1	0.744	0.06	0.00	0.00	0.00	0.11	2.68
258	BL 3	74.00	1.220	20.2	0.0	7.6	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.1	0.743	0.06	0.00	0.00	0.00	0.11	2.68
259	BL 3	73.80	1.222	20.2	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.1	0.743	0.06	0.00	0.00	0.00	0.11	2.68
260	BL 3	73.60	1.224	20.2	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.0	0.743	0.06	0.00	0.00	0.00	0.11	2.68
261	BL 3	73.40	1.226	20.2	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.0	0.743	0.06	0.00	0.00	0.00	0.11	2.68
262	BL 3	73.20	1.228	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.0	0.743	0.06	0.00	0.00	0.00	0.11	2.68

263	BL	3	73.00	1.230	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.68
264	BL	3	72.80	1.232	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.1	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.69
265	BL	3	72.60	1.234	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.82	14.2	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.69
266	BL	3	72.40	1.236	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.69
267	BL	3	72.20	1.238	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.69
268	BL	3	72.00	1.240	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.742	0.06	0.00	0.00	0.00	0.11	2.69
269	BL	3	71.80	1.242	20.3	0.0	7.5	1.8	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.69
270	BL	3	71.60	1.244	20.3	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.69
271	BL	3	71.40	1.246	20.3	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.69
272	BL	3	71.20	1.248	20.3	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.83	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.70
273	BL	3	71.00	1.250	20.3	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.70
274	BL	3	70.80	1.252	20.3	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.70
275	BL	3	70.60	1.254	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.741	0.06	0.00	0.00	0.00	0.11	2.70
276	BL	3	70.40	1.256	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.70
277	BL	3	70.20	1.258	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.70
278	BL	3	70.00	1.260	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.70
279	BL	3	69.80	1.262	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.70
280	BL	3	69.60	1.264	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.84	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.71
281	BL	3	69.40	1.266	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.740	0.06	0.00	0.00	0.00	0.11	2.71
282	BL	3	69.20	1.268	20.4	0.0	7.5	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
283	BL	3	69.00	1.270	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
284	BL	3	68.80	1.272	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
285	BL	3	68.60	1.274	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
286	BL	3	68.40	1.276	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.048	0.048	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
287	BL	3	68.20	1.277	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.049	0.049	9.0	0.739	0.06	0.00	0.00	0.00	0.11	2.71
288	BL	3	68.00	1.279	20.4	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.85	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
289	BL	3	67.80	1.281	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
290	BL	3	67.60	1.283	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
291	BL	3	67.40	1.285	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC	DISP	MEAN	DEPTH	WIDTH	VELO	DO	VELO	REAER	SAT	BOD1 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
292	BL 3	67.20	1.287	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
293	BL 3	67.00	1.289	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
294	BL 3	66.80	1.291	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.738	0.06	0.00	0.00	0.00	0.11	2.72
295	BL 3	66.60	1.293	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.86	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.72
296	BL 3	66.40	1.295	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.73
297	BL 3	66.20	1.297	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.73
298	BL 3	66.00	1.299	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.73
299	BL 3	65.80	1.301	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.73
300	BL 3	65.60	1.303	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.737	0.06	0.00	0.00	0.00	0.11	2.73
301	BL 3	65.40	1.305	20.5	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.2	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.73
302	BL 3	65.20	1.307	20.6	0.0	7.4	1.7	0.0	1.3	0.2	20.0	0.0	1.87	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.73
303	BL 3	65.00	1.309	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.87	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.73
304	BL 3	64.80	1.311	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.74
305	BL 3	64.60	1.313	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.74
306	BL 3	64.40	1.315	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.74
307	BL 3	64.20	1.317	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.736	0.06	0.00	0.00	0.00	0.11	2.74
308	BL 3	64.00	1.319	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.74
309	BL 3	63.80	1.321	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.74
310	BL 3	63.60	1.323	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.74
311	BL 3	63.40	1.325	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.88	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.74
312	BL 3	63.20	1.327	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.75
313	BL 3	63.00	1.329	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.75
314	BL 3	62.80	1.331	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.735	0.06	0.00	0.00	0.00	0.11	2.75
315	BL 3	62.60	1.333	20.6	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.75
316	BL 3	62.40	1.335	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.75
317	BL 3	62.20	1.337	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.75
318	BL 3	62.00	1.339	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.049	0.049	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.75
319	BL 3	61.80	1.341	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.89	14.3	0.050	0.050	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.76
320	BL 3	61.60	1.343	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.76
321	BL 3	61.40	1.345	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.734	0.06	0.00	0.00	0.00	0.11	2.76
322	BL 3	61.20	1.347	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.76
323	BL 3	61.00	1.349	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.76
324	BL 3	60.80	1.351	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.76
325	BL 3	60.60	1.353	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.76
326	BL 3	60.40	1.355	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.76
327	BL 3	60.20	1.357	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.90	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.77
328	BL 3	60.00	1.359	20.7	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.733	0.06	0.00	0.00	0.00	0.11	2.77
329	BL 3	59.80	1.361	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
330	BL 3	59.60	1.363	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
331	BL 3	59.40	1.365	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
332	BL 3	59.20	1.367	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
333	BL 3	59.00	1.369	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
334	BL 3	58.80	1.371	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.77
335	BL 3	58.60	1.373	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.91	14.3	0.050	0.050	9.0	0.732	0.06	0.00	0.00	0.00	0.12	2.78
336	BL 3	58.40	1.375	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.732	0.06	0.00	0.00	0.00	0.12	2.78

337	BL	3	58.20	1.377	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
338	BL	3	58.00	1.379	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
339	BL	3	57.80	1.381	20.8	0.0	7.4	1.6	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
340	BL	3	57.60	1.383	20.8	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
341	BL	3	57.40	1.385	20.8	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.92	14.3	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
342	BL	3	57.20	1.387	20.8	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.92	14.4	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.78
343	BL	3	57.00	1.389	20.9	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.92	14.4	0.050	0.050	8.9	0.731	0.06	0.00	0.00	0.00	0.12	2.79
344	BL	3	56.80	1.391	20.9	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
345	BL	3	56.60	1.393	20.9	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
346	BL	3	56.40	1.395	20.9	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
347	BL	3	56.20	1.397	20.9	0.0	7.4	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
348	BL	3	56.00	1.399	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
349	BL	3	55.80	1.401	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.79
350	BL	3	55.60	1.403	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.050	0.050	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.80
351	BL	3	55.40	1.404	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.93	14.4	0.051	0.051	8.9	0.730	0.06	0.00	0.00	0.00	0.12	2.80
352	BL	3	55.20	1.406	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
353	BL	3	55.00	1.408	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
354	BL	3	54.80	1.410	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
355	BL	3	54.60	1.412	20.9	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
356	BL	3	54.40	1.414	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
357	BL	3	54.20	1.416	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.80
358	BL	3	54.00	1.418	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.81
359	BL	3	53.80	1.420	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.94	14.4	0.051	0.051	8.9	0.729	0.06	0.00	0.00	0.00	0.12	2.81
360	BL	3	53.60	1.422	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81
361	BL	3	53.40	1.424	21.0	0.0	7.3	1.5	0.0	1.3	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81
362	BL	3	53.20	1.426	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81
363	BL	3	53.00	1.428	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81
364	BL	3	52.80	1.430	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81
365	BL	3	52.60	1.432	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.81

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	DO VELO	REAER SAT	BOD1 RATE	BOD1 DECA	BOD2 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
366	BL 3	52.40	1.434	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.82
367	BL 3	52.20	1.436	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.728	0.06	0.00	0.00	0.00	0.12	2.82
368	BL 3	52.00	1.438	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.95	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.82
369	BL 3	51.80	1.440	21.0	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.82
370	BL 3	51.60	1.442	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.82
371	BL 3	51.40	1.444	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.82
372	BL 3	51.20	1.446	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.82
373	BL 3	51.00	1.448	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.83
374	BL 3	50.80	1.450	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.83
375	BL 3	50.60	1.452	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.727	0.06	0.00	0.00	0.00	0.12	2.83
376	BL 3	50.40	1.454	21.1	0.0	7.3	1.5	0.0	1.4	0.2	20.0	0.0	1.96	14.4	0.051	0.051	8.9	0.726	0.06	0.00	0.00	0.00	0.12	2.83
377	BL 4	50.20	1.456	21.1	0.0	7.0	2.5	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
378	BL 4	50.00	1.458	21.1	0.0	6.9	3.4	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
379	BL 4	49.80	1.460	21.1	0.0	6.7	4.1	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
380	BL 4	49.60	1.462	21.1	0.0	6.7	4.7	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
381	BL 4	49.40	1.464	21.1	0.0	6.6	5.2	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
382	BL 4	49.20	1.466	21.1	0.0	6.5	5.6	0.0	1.4	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
383	BL 4	49.00	1.468	21.1	0.0	6.5	5.9	0.0	1.5	0.2	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
384	BL 4	48.80	1.470	21.1	0.0	6.4	6.2	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
385	BL 4	48.60	1.472	21.1	0.0	6.4	6.5	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
386	BL 4	48.40	1.474	21.1	0.0	6.4	6.7	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
387	BL 4	48.20	1.476	21.1	0.0	6.3	6.8	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
WASTELOAD # 388 (NPS Grand Bayou) ENTERS HERE																								
388	BL 4	48.00	1.481	21.1	0.0	6.3	7.0	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
389	BL 4	47.80	1.483	21.1	0.0	6.3	7.1	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
390	BL 4	47.60	1.485	21.1	0.0	6.3	7.2	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
391	BL 4	47.40	1.487	21.1	0.0	6.3	7.3	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
392	BL 4	47.20	1.489	21.1	0.0	6.3	7.3	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
393	BL 4	47.00	1.491	21.1	0.0	6.3	7.4	0.0	1.5	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
394	BL 4	46.80	1.493	21.1	0.0	6.3	7.5	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
395	BL 4	46.60	1.495	21.1	0.0	6.2	7.5	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
396	BL 4	46.40	1.497	21.1	0.0	6.2	7.5	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
397	BL 4	46.20	1.499	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
398	BL 4	46.00	1.501	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
399	BL 4	45.80	1.503	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
400	BL 4	45.60	1.505	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
401	BL 4	45.40	1.507	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
402	BL 4	45.20	1.509	21.1	0.0	6.2	7.6	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
403	BL 4	45.00	1.511	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
404	BL 4	44.80	1.513	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
405	BL 4	44.60	1.515	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
406	BL 4	44.40	1.517	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
407	BL 4	44.20	1.519	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
408	BL 4	44.00	1.521	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
409	BL 4	43.80	1.523	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521	297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07

410	BL	4	43.60	1.525	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
411	BL	4	43.40	1.527	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
412	BL	4	43.20	1.529	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
413	BL	4	43.00	1.531	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
414	BL	4	42.80	1.532	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
415	BL	4	42.60	1.534	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
416	BL	4	42.40	1.536	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
417	BL	4	42.20	1.538	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
418	BL	4	42.00	1.540	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
419	BL	4	41.80	1.542	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
420	BL	4	41.60	1.544	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
421	BL	4	41.40	1.546	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
422	BL	4	41.20	1.548	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
423	BL	4	41.00	1.550	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
424	BL	4	40.80	1.552	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
425	BL	4	40.60	1.554	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
426	BL	4	40.40	1.556	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
427	BL	4	40.20	1.558	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
428	BL	4	40.00	1.560	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
429	BL	4	39.80	1.562	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
430	BL	4	39.60	1.564	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
431	BL	4	39.40	1.566	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
432	BL	4	39.20	1.568	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
433	BL	4	39.00	1.570	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
434	BL	4	38.80	1.572	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
435	BL	4	38.60	1.574	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
436	BL	4	38.40	1.576	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
437	BL	4	38.20	1.578	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07
438	BL	4	38.00	1.580	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	DISP m²/s	ADVEC m	MEAN DEPTH m	DO m/s	REAER m/s	BOD1 mg/L	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SOD g/m²/d
439	BL 4	37.80	1.582	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
440	BL 4	37.60	1.584	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
441	BL 4	37.40	1.586	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
442	BL 4	37.20	1.588	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
443	BL 4	37.00	1.590	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
444	BL 4	36.80	1.592	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
445	BL 4	36.60	1.594	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
446	BL 4	36.40	1.596	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
447	BL 4	36.20	1.598	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
448	BL 4	36.00	1.600	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
449	BL 4	35.80	1.602	21.1	0.0	6.2	7.7	0.0	1.6	0.3	20.0	0.0	1.521297.0	0.001	0.001	8.9	0.538	0.06	0.00	0.00	0.00	0.12	2.07						
450	CL 5	35.60	1.604	21.1	0.0	5.9	7.7	0.0	1.6	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
451	CL 5	35.40	1.606	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
452	CL 5	35.20	1.608	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
453	CL 5	35.00	1.610	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
454	CL 5	34.80	1.612	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
455	CL 5	34.60	1.614	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
456	CL 5	34.40	1.616	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
457	CL 5	34.20	1.618	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
458	CL 5	34.00	1.620	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
459	CL 5	33.80	1.622	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
460	CL 5	33.60	1.624	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
461	CL 5	33.40	1.626	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
462	CL 5	33.20	1.628	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
463	CL 5	33.00	1.630	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
464	CL 5	32.80	1.632	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
465	CL 5	32.60	1.634	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
466	CL 5	32.40	1.636	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
467	CL 5	32.20	1.638	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
468	CL 5	32.00	1.640	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
469	CL 5	31.80	1.642	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
470	CL 5	31.60	1.644	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
471	CL 5	31.40	1.646	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
472	CL 5	31.20	1.648	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
473	CL 5	31.00	1.650	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
474	CL 5	30.80	1.652	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
475	CL 5	30.60	1.653	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
476	CL 5	30.40	1.655	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
477	CL 5	30.20	1.657	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
478	CL 5	30.00	1.659	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
479	CL 5	29.80	1.661	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
480	CL 5	29.60	1.663	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
481	CL 5	29.40	1.665	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
482	CL 5	29.20	1.667	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						
483	CL 5	29.00	1.669	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12						

484	CL	5	28.80	1.671	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
485	CL	5	28.60	1.673	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
486	CL	5	28.40	1.675	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
487	CL	5	28.20	1.677	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
488	CL	5	28.00	1.679	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
489	CL	5	27.80	1.681	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
490	CL	5	27.60	1.683	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
491	CL	5	27.40	1.685	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
492	CL	5	27.20	1.687	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
493	CL	5	27.00	1.689	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
494	CL	5	26.80	1.691	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
495	CL	5	26.60	1.693	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
496	CL	5	26.40	1.695	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
497	CL	5	26.20	1.697	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
498	CL	5	26.00	1.699	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
499	CL	5	25.80	1.701	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
500	CL	5	25.60	1.703	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
501	CL	5	25.40	1.705	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
502	CL	5	25.20	1.707	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
503	CL	5	25.00	1.709	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
504	CL	5	24.80	1.711	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12

DIVERSION # 505 (NPS Clear Lake out) LEAVES HERE

505	CL	5	24.60	0.857	21.1	0.0	5.8	7.7	0.0	1.7	0.3	20.0	0.0	4.971699.0	0.000	0.000	8.9	0.164	0.06	0.00	0.00	0.00	0.11	2.12
506	PA	6	24.40	0.857	21.1	0.0	5.5	7.7	0.0	1.7	0.3	20.4	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.10
507	PA	6	24.20	0.857	21.1	0.0	5.4	7.7	0.0	1.7	0.3	20.8	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.11
508	PA	6	24.00	0.857	21.2	0.0	5.2	7.7	0.0	1.7	0.3	21.3	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.11
509	PA	6	23.80	0.857	21.2	0.0	5.1	7.7	0.0	1.7	0.3	21.7	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.11
510	PA	6	23.60	0.857	21.2	0.0	5.1	7.7	0.0	1.7	0.3	22.1	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.12
511	PA	6	23.40	0.857	21.2	0.0	5.1	7.7	0.0	1.7	0.3	22.5	0.0	5.68 110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11	3.12

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 µg/L	CHLA	DISP m²/s	ADVEC m	MEAN m	DO m/s	REAER m/s	BOD1 mg/L	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	DECA RATE	SETT DECA	SETT DECA	SOD g/m²/d
512	PA 6	23.20	0.857	21.2	0.0	5.1	7.7	0.0	1.7	0.3	23.0	0.0	5.68	110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11			3.13
513	PA 6	23.00	0.857	21.2	0.0	5.1	7.7	0.0	1.7	0.3	23.4	0.0	5.68	110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11			3.13
514	PA 6	22.80	0.857	21.3	0.0	5.1	7.7	0.0	1.7	0.3	23.8	0.0	5.68	110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11			3.13
515	PA 6	22.60	0.857	21.3	0.0	5.1	7.7	0.0	1.7	0.3	24.2	0.0	5.68	110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11			3.14
516	PA 6	22.40	0.857	21.3	0.0	5.2	7.7	0.0	1.7	0.3	24.7	0.0	5.68	110.0	0.001	0.001	8.9	0.144	0.06	0.00	0.00	0.00	0.11			3.14
517	PA 6	22.20	0.857	21.3	0.0	5.2	7.7	0.0	1.6	0.3	25.1	0.0	5.68	110.0	0.001	0.001	8.9	0.145	0.06	0.00	0.00	0.00	0.11			3.14
518	PA 6	22.00	0.857	21.3	0.0	5.3	7.7	0.0	1.6	0.3	25.5	0.0	5.68	110.0	0.001	0.001	8.9	0.145	0.06	0.00	0.00	0.00	0.11			3.15
519	PA 6	21.80	0.857	21.4	0.0	5.3	7.7	0.0	1.6	0.3	25.9	0.0	5.68	110.0	0.001	0.001	8.9	0.145	0.06	0.00	0.00	0.00	0.12			3.15
520	PA 6	21.60	0.857	21.4	0.0	5.4	7.7	0.0	1.6	0.3	26.4	0.0	5.68	110.0	0.001	0.001	8.9	0.145	0.06	0.00	0.00	0.00	0.12			3.15
521	PA 6	21.40	0.857	21.4	0.0	5.5	7.7	0.0	1.6	0.3	26.8	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.16
522	PA 6	21.20	0.857	21.4	0.0	5.5	7.6	0.0	1.6	0.3	27.2	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.16
523	PA 6	21.00	0.857	21.4	0.0	5.6	7.6	0.0	1.6	0.3	27.6	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.17
524	PA 6	20.80	0.857	21.4	0.0	5.7	7.6	0.0	1.6	0.3	28.1	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.17
525	PA 6	20.60	0.857	21.5	0.0	5.7	7.6	0.0	1.6	0.3	28.5	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.17
526	PA 6	20.40	0.857	21.5	0.0	5.8	7.6	0.0	1.6	0.3	28.9	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.18
527	PA 6	20.20	0.857	21.5	0.0	5.9	7.6	0.0	1.6	0.3	29.3	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.18
528	PA 6	20.00	0.857	21.5	0.0	6.0	7.6	0.0	1.6	0.3	29.8	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.18
529	PA 6	19.80	0.857	21.5	0.0	6.0	7.6	0.0	1.6	0.3	30.2	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.19
530	PA 6	19.60	0.857	21.6	0.0	6.1	7.6	0.0	1.6	0.3	30.6	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.19
531	PA 6	19.40	0.857	21.6	0.0	6.2	7.6	0.0	1.6	0.3	31.0	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.19
532	PA 6	19.20	0.857	21.6	0.0	6.3	7.6	0.0	1.6	0.3	31.5	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.20
533	PA 6	19.00	0.857	21.6	0.0	6.4	7.6	0.0	1.6	0.3	31.9	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.20
534	PA 6	18.80	0.857	21.6	0.0	6.4	7.6	0.0	1.6	0.3	32.3	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.21
535	PA 6	18.60	0.857	21.6	0.0	6.5	7.6	0.0	1.6	0.3	32.7	0.0	5.68	110.0	0.001	0.001	8.8	0.145	0.06	0.00	0.00	0.00	0.12			3.21
536	PA 6	18.40	0.857	21.7	0.0	6.6	7.6	0.0	1.6	0.3	33.2	0.0	5.68	110.0	0.001	0.001	8.8	0.146	0.06	0.00	0.00	0.00	0.12			3.21
537	PA 6	18.20	0.857	21.7	0.0	6.7	7.6	0.0	1.6	0.3	33.6	0.0	5.68	110.0	0.001	0.001	8.8	0.146	0.06	0.00	0.00	0.00	0.12			3.22
538	PA 6	18.00	0.857	21.7	0.0	6.8	7.5	0.0	1.6	0.3	34.0	0.0	5.68	110.0	0.001	0.001	8.8	0.146	0.06	0.00	0.00	0.00	0.12			3.22
WASTELOAD # 539 (NPs Saline Lake) ENTERS HERE																										
539	BB 7	17.80	2.467	21.7	0.0	5.6	4.6	0.0	1.5	0.2	34.8	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
540	BB 7	17.60	2.467	21.7	0.0	5.7	4.8	0.0	1.5	0.2	35.6	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
541	BB 7	17.40	2.467	21.7	0.0	5.7	5.0	0.0	1.5	0.2	36.4	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
542	BB 7	17.20	2.467	21.7	0.0	5.8	5.3	0.0	1.5	0.2	37.2	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
543	BB 7	17.00	2.467	21.7	0.0	5.8	5.5	0.0	1.5	0.2	38.0	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
544	BB 7	16.80	2.467	21.7	0.0	5.9	5.7	0.0	1.5	0.2	38.8	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
545	BB 7	16.60	2.467	21.7	0.0	5.9	5.9	0.0	1.5	0.2	39.6	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
546	BB 7	16.40	2.467	21.7	0.0	6.0	6.1	0.0	1.5	0.2	40.4	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
547	BB 7	16.20	2.467	21.7	0.0	6.0	6.3	0.0	1.5	0.3	41.2	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
548	BB 7	16.00	2.467	21.7	0.0	6.1	6.4	0.0	1.6	0.3	42.0	0.0	5.68	110.0	0.004	0.004	8.8	0.146	0.06	0.00	0.00	0.00	0.12			5.29
TRIBUTARY # 549 (Praire) ENTERS HERE																										
579	SB 10	15.80	3.324	21.7	0.0	6.1	9.7	0.0	1.6	0.3	42.3	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01
580	SB 10	15.60	3.324	21.7	0.0	6.1	9.7	0.0	1.6	0.3	42.6	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01
581	SB 10	15.40	3.324	21.7	0.0	6.0	9.7	0.0	1.6	0.3	42.9	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01
582	SB 10	15.20	3.324	21.7	0.0	6.0	9.7	0.0	1.6	0.3	43.2	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01
583	SB 10	15.00	3.324	21.7	0.0	6.0	9.7	0.0	1.6	0.3	43.5	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01
584	SB 10	14.80	3.324	21.7	0.0	6.0	9.7	0.0	1.6	0.3	43.8	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12			5.01

585	SB	10	14.60	3.324	21.7	0.0	6.0	9.7	0.0	1.6	0.3	44.2	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
586	SB	10	14.40	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	44.5	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
587	SB	10	14.20	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	44.8	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
588	SB	10	14.00	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	45.1	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
589	SB	10	13.80	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	45.4	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
590	SB	10	13.60	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	45.7	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
591	SB	10	13.40	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	46.0	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
592	SB	10	13.20	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	46.3	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
593	SB	10	13.00	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	46.6	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
594	SB	10	12.80	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	46.9	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
595	SB	10	12.60	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	47.2	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
596	SB	10	12.40	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	47.5	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
597	SB	10	12.20	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	47.8	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
598	SB	10	12.00	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	48.2	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
599	SB	10	11.80	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	48.5	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
600	SB	10	11.60	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	48.8	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
601	SB	10	11.40	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	49.1	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
602	SB	10	11.20	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	49.4	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
603	SB	10	11.00	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	49.7	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
604	SB	10	10.80	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	50.0	0.0	4.57	50.6	0.014	0.014	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.01
605	SB	11	10.60	3.324	21.7	0.0	5.9	9.6	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
606	SB	11	10.40	3.324	21.7	0.0	5.9	9.7	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
607	SB	11	10.20	3.324	21.7	0.0	5.9	9.8	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
608	SB	11	10.00	3.324	21.7	0.0	5.9	9.8	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
609	SB	11	9.80	3.324	21.7	0.0	5.9	9.9	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
610	SB	11	9.60	3.324	21.7	0.0	5.9	10.0	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
611	SB	11	9.40	3.324	21.7	0.0	5.9	10.0	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
612	SB	11	9.20	3.324	21.7	0.0	5.9	10.1	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
613	SB	11	9.00	3.324	21.7	0.0	5.9	10.2	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18

EXPANDED CAPSULE SUMMARY FOR Black Lake Bayou

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	ADVEC DEPTH	MEAN WIDTH	DO VELO	REAER VELO	BOD1 SAT	BOD1 RATE	BOD2 DECA	BOD2 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
614	SB 11	8.80	3.324	21.7	0.0	5.9	10.2	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
615	SB 11	8.60	3.324	21.7	0.0	5.9	10.3	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
616	SB 11	8.40	3.324	21.7	0.0	5.9	10.3	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
617	SB 11	8.20	3.324	21.7	0.0	5.9	10.4	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
618	SB 11	8.00	3.324	21.7	0.0	5.9	10.5	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
619	SB 11	7.80	3.324	21.7	0.0	5.9	10.5	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
620	SB 11	7.60	3.324	21.7	0.0	5.9	10.6	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
621	SB 11	7.40	3.324	21.7	0.0	5.9	10.6	0.0	1.6	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
622	SB 11	7.20	3.324	21.7	0.0	5.9	10.7	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
623	SB 11	7.00	3.324	21.7	0.0	5.9	10.7	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
624	SB 11	6.80	3.324	21.7	0.0	5.9	10.8	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
625	SB 11	6.60	3.324	21.7	0.0	5.9	10.9	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
626	SB 11	6.40	3.324	21.7	0.0	5.9	10.9	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
627	SB 11	6.20	3.324	21.7	0.0	5.9	11.0	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
628	SB 11	6.00	3.324	21.7	0.0	5.8	11.0	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
629	SB 11	5.80	3.324	21.7	0.0	5.8	11.1	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
630	SB 11	5.60	3.324	21.7	0.0	5.8	11.1	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
631	SB 11	5.40	3.324	21.7	0.0	5.8	11.2	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
632	SB 11	5.20	3.324	21.7	0.0	5.8	11.2	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
633	SB 11	5.00	3.324	21.7	0.0	5.8	11.3	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
634	SB 11	4.80	3.324	21.7	0.0	5.8	11.3	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
635	SB 11	4.60	3.324	21.7	0.0	5.8	11.4	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
636	SB 11	4.40	3.324	21.7	0.0	5.8	11.4	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
637	SB 11	4.20	3.324	21.7	0.0	5.7	11.5	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
638	SB 11	4.00	3.324	21.7	0.0	5.7	11.5	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
639	SB 11	3.80	3.324	21.7	0.0	5.7	11.5	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
640	SB 11	3.60	3.324	21.7	0.0	5.7	11.6	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
641	SB 11	3.40	3.324	21.7	0.0	5.7	11.6	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
642	SB 11	3.20	3.324	21.7	0.0	5.7	11.7	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
643	SB 11	3.00	3.324	21.7	0.0	5.7	11.7	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
644	SB 11	2.80	3.324	21.7	0.0	5.7	11.8	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
645	SB 11	2.60	3.324	21.7	0.0	5.6	11.8	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
646	SB 11	2.40	3.324	21.7	0.0	5.6	11.8	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
647	SB 11	2.20	3.324	21.7	0.0	5.6	11.9	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
648	SB 11	2.00	3.324	21.7	0.0	5.6	11.9	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
649	SB 11	1.80	3.324	21.7	0.0	5.6	12.0	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
650	SB 11	1.60	3.324	21.7	0.0	5.6	12.0	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
651	SB 11	1.40	3.324	21.7	0.0	5.6	12.0	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
652	SB 11	1.20	3.324	21.7	0.0	5.5	12.1	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
653	SB 11	1.00	3.324	21.7	0.0	5.5	12.1	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
654	SB 11	0.80	3.324	21.7	0.0	5.5	12.2	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
655	SB 11	0.60	3.324	21.7	0.0	5.5	12.2	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
656	SB 11	0.40	3.324	21.7	0.0	5.5	12.2	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
657	SB 11	0.20	3.324	21.7	0.0	5.5	12.3	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18
658	SB 11	0.00	3.324	21.7	0.0	5.5	12.3	0.0	1.7	0.3	50.0	0.0	4.57	61.5	0.012	0.012	8.8	0.181	0.06	0.00	0.00	0.00	0.12	5.18

EXPANDED CAPSULE SUMMARY FOR Praire

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 DEPTH m/s	MEAN WIDTH m/s	DO VELO mg/L	REAER VELO m/s	BOD1 SAT mg/L	BOD1 RATE 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
549	BL 8	5.80	0.857	21.1	0.0	7.2	10.5	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
550	BL 8	5.60	0.857	21.1	0.0	7.3	12.4	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
551	BL 8	5.40	0.857	21.1	0.0	7.2	13.5	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
552	BL 8	5.20	0.857	21.1	0.0	7.1	14.3	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
553	BL 8	5.00	0.857	21.1	0.0	7.1	14.8	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
554	BL 8	4.80	0.857	21.1	0.0	7.0	15.1	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
555	BL 8	4.60	0.857	21.1	0.0	7.0	15.3	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
556	BL 8	4.40	0.857	21.1	0.0	7.0	15.5	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
557	BL 8	4.20	0.857	21.1	0.0	7.0	15.6	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
558	BL 8	4.00	0.857	21.1	0.0	7.0	15.6	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
559	BL 8	3.80	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
560	BL 8	3.60	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
561	BL 8	3.40	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
562	BL 8	3.20	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
563	BL 8	3.00	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
564	BL 8	2.80	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
565	BL 8	2.60	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
566	BL 8	2.40	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
567	BL 8	2.20	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
568	BL 8	2.00	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
569	BL 8	1.80	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
570	BL 8	1.60	0.857	21.1	0.0	7.0	15.7	0.0	1.7	0.3	75.0	0.0	0.912	604.0	0.000	0.000	8.9	0.898	0.08	0.00	0.00	0.00	0.12	2.10
571	SB 9	1.40	0.857	21.2	0.0	7.1	16.3	0.0	1.7	0.3	70.9	0.0	3.12	61.0	0.005	0.005	8.9	0.262	0.08	0.00	0.00	0.00	0.12	1.82
572	SB 9	1.20	0.857	21.2	0.0	7.2	16.8	0.0	1.7	0.3	66.8	0.0	3.12	61.0	0.005	0.005	8.9	0.263	0.08	0.00	0.00	0.00	0.12	1.83
573	SB 9	1.00	0.857	21.3	0.0	7.2	17.2	0.0	1.7	0.3	62.6	0.0	3.12	61.0	0.005	0.005	8.9	0.263	0.09	0.00	0.00	0.00	0.12	1.84
574	SB 9	0.80	0.857	21.4	0.0	7.1	17.7	0.0	1.7	0.3	58.5	0.0	3.12	61.0	0.005	0.005	8.8	0.264	0.09	0.00	0.00	0.00	0.12	1.85
575	SB 9	0.60	0.857	21.5	0.0	6.9	18.1	0.0	1.7	0.3	54.4	0.0	3.12	61.0	0.005	0.005	8.8	0.264	0.09	0.00	0.00	0.00	0.12	1.86
576	SB 9	0.40	0.857	21.6	0.0	6.7	18.5	0.0	1.7	0.3	50.2	0.0	3.12	61.0	0.005	0.005	8.8	0.264	0.09	0.00	0.00	0.00	0.12	1.86
577	SB 9	0.20	0.857	21.6	0.0	6.5	18.9	0.0	1.7	0.3	46.1	0.0	3.12	61.0	0.005	0.005	8.8	0.265	0.09	0.00	0.00	0.00	0.12	1.87
578	SB 9	0.00	0.857	21.7	0.0	6.2	19.3	0.0	1.7	0.3	42.0	0.0	3.12	61.0	0.005	0.005	8.8	0.265	0.09	0.00	0.00	0.00	0.12	1.88

SPECIAL REPORT: Black Lake Bayou
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 *
1	125.400	20.10	0.0	0.0	0.0	5.17	2.27	0.00	2.27	0.00	1.22	0.19	0.02	1.44	0.00	20.0	0.0	0.	0.00
2	125.200	20.10	0.0	0.0	0.0	5.31	2.26	0.00	2.26	0.00	1.22	0.19	0.02	1.43	0.00	20.0	0.0	0.	0.00
3	125.000	20.10	0.0	0.0	0.0	5.44	2.25	0.00	2.25	0.00	1.22	0.19	0.02	1.43	0.00	20.0	0.0	0.	0.00
4	124.800	20.10	0.0	0.0	0.0	5.57	2.25	0.00	2.25	0.00	1.22	0.19	0.02	1.43	0.00	20.0	0.0	0.	0.00
5	124.600	20.10	0.0	0.0	0.0	5.68	2.24	0.00	2.24	0.00	1.23	0.19	0.02	1.43	0.00	20.0	0.0	0.	0.00
6	124.400	20.10	0.0	0.0	0.0	5.79	2.24	0.00	2.24	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00
7	124.200	20.10	0.0	0.0	0.0	5.89	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00

8	124.000	20.10	0.0	0.0	0.0	5.99	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00
9	123.800	20.10	0.0	0.0	0.0	6.08	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00
10	123.600	20.10	0.0	0.0	0.0	6.17	2.22	0.00	2.22	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00
11	123.400	20.10	0.0	0.0	0.0	6.25	2.22	0.00	2.22	0.00	1.23	0.19	0.01	1.43	0.00	20.0	0.0	0.	0.00
12	123.200	20.10	0.0	0.0	0.0	6.32	2.21	0.00	2.21	0.00	1.23	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
13	123.000	20.10	0.0	0.0	0.0	6.39	2.21	0.00	2.21	0.00	1.23	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
14	122.800	20.10	0.0	0.0	0.0	6.46	2.20	0.00	2.20	0.00	1.23	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
15	122.600	20.10	0.0	0.0	0.0	6.52	2.20	0.00	2.20	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
16	122.400	20.10	0.0	0.0	0.0	6.58	2.19	0.00	2.19	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
17	122.200	20.10	0.0	0.0	0.0	6.64	2.19	0.00	2.19	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
18	122.000	20.10	0.0	0.0	0.0	6.69	2.18	0.00	2.18	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
19	121.800	20.10	0.0	0.0	0.0	6.74	2.18	0.00	2.18	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
20	121.600	20.10	0.0	0.0	0.0	6.79	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
21	121.400	20.10	0.0	0.0	0.0	6.83	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.43	0.00	20.0	0.0	0.	0.00
22	121.200	20.10	0.0	0.0	0.0	6.88	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
23	121.000	20.10	0.0	0.0	0.0	6.92	2.16	0.00	2.16	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
24	120.800	20.10	0.0	0.0	0.0	6.95	2.16	0.00	2.16	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
25	120.600	20.10	0.0	0.0	0.0	6.99	2.15	0.00	2.15	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
26	120.400	20.10	0.0	0.0	0.0	7.02	2.15	0.00	2.15	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
27	120.200	20.10	0.0	0.0	0.0	7.06	2.14	0.00	2.14	0.00	1.24	0.19	0.00	1.44	0.00	20.0	0.0	0.	0.00
28	120.000	20.10	0.0	0.0	0.0	7.09	2.14	0.00	2.14	0.00	1.25	0.20	0.00	1.44	0.00	20.0	0.0	0.	0.00
29	119.800	20.10	0.0	0.0	0.0	7.11	2.14	0.00	2.14	0.00	1.25	0.20	0.00	1.44	0.00	20.0	0.0	0.	0.00
30	119.600	20.10	0.0	0.0	0.0	7.14	2.13	0.00	2.13	0.00	1.25	0.20	0.00	1.44	0.00	20.0	0.0	0.	0.00
31	119.400	20.10	0.0	0.0	0.0	7.17	2.13	0.00	2.13	0.00	1.25	0.20	0.00	1.44	0.00	20.0	0.0	0.	0.00
32	119.200	20.10	0.0	0.0	0.0	7.19	2.12	0.00	2.12	0.00	1.25	0.20	0.00	1.44	0.00	20.0	0.0	0.	0.00
33	119.000	20.10	0.0	0.0	0.0	7.21	2.12	0.00	2.12	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
34	118.800	20.10	0.0	0.0	0.0	7.24	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
35	118.600	20.10	0.0	0.0	0.0	7.26	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
36	118.400	20.10	0.0	0.0	0.0	7.28	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
37	118.200	20.10	0.0	0.0	0.0	7.29	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
38	118.000	20.10	0.0	0.0	0.0	7.31	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
39	117.800	20.10	0.0	0.0	0.0	7.33	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
40	117.600	20.10	0.0	0.0	0.0	7.34	2.09	0.00	2.09	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
41	117.400	20.10	0.0	0.0	0.0	7.36	2.09	0.00	2.09	0.00	1.25	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
42	117.200	20.10	0.0	0.0	0.0	7.37	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
43	117.000	20.10	0.0	0.0	0.0	7.39	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
44	116.800	20.10	0.0	0.0	0.0	7.40	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
45	116.600	20.10	0.0	0.0	0.0	7.41	2.07	0.00	2.07	0.00	1.26	0.20	0.00	1.45	0.00	20.0	0.0	0.	0.00
46	116.400	20.10	0.0	0.0	0.0	7.43	2.07	0.00	2.07	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
47	116.200	20.10	0.0	0.0	0.0	7.44	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
48	116.000	20.10	0.0	0.0	0.0	7.45	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
49	115.800	20.10	0.0	0.0	0.0	7.46	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
50	115.600	20.10	0.0	0.0	0.0	7.47	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
51	115.400	20.10	0.0	0.0	0.0	7.48	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
52	115.200	20.10	0.0	0.0	0.0	7.49	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
53	115.000	20.10	0.0	0.0	0.0	7.49	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
54	114.800	20.10	0.0	0.0	0.0	7.50	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
55	114.600	20.10	0.0	0.0	0.0	7.51	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
56	114.400	20.10	0.0	0.0	0.0	7.52	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
57	114.200	20.10	0.0	0.0	0.0	7.52	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
58	114.000	20.10	0.0	0.0	0.0	7.53	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00

59	113.800	20.10	0.0	0.0	0.0	7.54	2.02	0.00	2.02	0.00	1.26	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
60	113.600	20.10	0.0	0.0	0.0	7.54	2.02	0.00	2.02	0.00	1.27	0.20	0.00	1.46	0.00	20.0	0.0	0.	0.00
61	113.400	20.10	0.0	0.0	0.0	7.55	2.02	0.00	2.02	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
62	113.200	20.10	0.0	0.0	0.0	7.56	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
63	113.000	20.10	0.0	0.0	0.0	7.56	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
64	112.800	20.10	0.0	0.0	0.0	7.57	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
65	112.600	20.10	0.0	0.0	0.0	7.57	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
66	112.400	20.10	0.0	0.0	0.0	7.58	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
67	112.200	20.10	0.0	0.0	0.0	7.58	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
68	112.000	20.10	0.0	0.0	0.0	7.59	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
69	111.800	20.10	0.0	0.0	0.0	7.59	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
70	111.600	20.10	0.0	0.0	0.0	7.60	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
71	111.400	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
72	111.200	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
73	111.000	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
74	110.800	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
75	110.600	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
76	110.400	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
77	110.200	20.10	0.0	0.0	0.0	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.0	0.0	0.	0.00
78	110.000	20.10	0.0	0.0	0.0	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
79	109.800	20.10	0.0	0.0	0.0	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
80	109.600	20.10	0.0	0.0	0.0	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
81	109.400	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.27	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
82	109.200	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
83	109.000	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
84	108.800	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
85	108.600	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
86	108.400	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
87	108.200	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
88	108.000	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
89	107.800	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
90	107.600	20.10	0.0	0.0	0.0	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
91	107.400	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
92	107.200	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
93	107.000	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
94	106.800	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
95	106.600	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
96	106.400	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
97	106.200	20.10	0.0	0.0	0.0	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
98	106.000	20.10	0.0	0.0	0.0	7.59	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
99	105.800	20.10	0.0	0.0	0.0	7.59	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
100	105.600	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
101	105.400	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
102	105.200	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
103	105.000	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
104	104.800	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
105	104.600	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
106	104.400	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
107	104.200	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
108	104.000	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
109	103.800	20.10	0.0	0.0	0.0	7.59	1.95	0.00	1.95	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00

110	103.600	20.10	0.0	0.0	0.0	7.59	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
111	103.400	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
112	103.200	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
113	103.000	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
114	102.800	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
115	102.600	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
116	102.400	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
117	102.200	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
118	102.000	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
119	101.800	20.10	0.0	0.0	0.0	7.36	1.98	0.00	1.98	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
120	101.600	20.10	0.0	0.0	0.0	7.38	1.98	0.00	1.98	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
121	101.400	20.10	0.0	0.0	0.0	7.39	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
122	101.200	20.10	0.0	0.0	0.0	7.41	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
123	101.000	20.10	0.0	0.0	0.0	7.42	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
124	100.800	20.10	0.0	0.0	0.0	7.43	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
125	100.600	20.10	0.0	0.0	0.0	7.44	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
126	100.400	20.10	0.0	0.0	0.0	7.46	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
127	100.200	20.10	0.0	0.0	0.0	7.47	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
128	100.000	20.10	0.0	0.0	0.0	7.48	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
129	99.800	20.10	0.0	0.0	0.0	7.49	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
130	99.600	20.10	0.0	0.0	0.0	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
131	99.400	20.10	0.0	0.0	0.0	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
132	99.200	20.10	0.0	0.0	0.0	7.51	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
133	99.000	20.10	0.0	0.0	0.0	7.52	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
134	98.800	20.10	0.0	0.0	0.0	7.53	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
135	98.600	20.10	0.0	0.0	0.0	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
136	98.400	20.10	0.0	0.0	0.0	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
137	98.200	20.10	0.0	0.0	0.0	7.55	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
138	98.000	20.10	0.0	0.0	0.0	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
139	97.800	20.10	0.0	0.0	0.0	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
140	97.600	20.10	0.0	0.0	0.0	7.57	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
141	97.400	20.10	0.0	0.0	0.0	7.58	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
142	97.200	20.10	0.0	0.0	0.0	7.41	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
143	97.000	20.10	0.0	0.0	0.0	7.43	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
144	96.800	20.10	0.0	0.0	0.0	7.44	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
145	96.600	20.10	0.0	0.0	0.0	7.45	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.0	0.0	0.	0.00
146	96.400	20.10	0.0	0.0	0.0	7.47	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
147	96.200	20.10	0.0	0.0	0.0	7.48	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
148	96.000	20.10	0.0	0.0	0.0	7.49	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
149	95.800	20.10	0.0	0.0	0.0	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
150	95.600	20.10	0.0	0.0	0.0	7.51	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
151	95.400	20.10	0.0	0.0	0.0	7.52	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
152	95.200	20.10	0.0	0.0	0.0	7.53	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
153	95.000	20.10	0.0	0.0	0.0	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
154	94.800	20.10	0.0	0.0	0.0	7.55	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
155	94.600	20.10	0.0	0.0	0.0	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
156	94.400	20.10	0.0	0.0	0.0	7.57	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
157	94.200	20.10	0.0	0.0	0.0	7.57	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
158	94.000	20.10	0.0	0.0	0.0	7.58	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
159	93.800	20.10	0.0	0.0	0.0	7.59	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.0	0.0	0.	0.00
160	93.600	20.10	0.0	0.0	0.0	7.59	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00

161	93.400	20.10	0.0	0.0	0.0	7.60	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
162	93.200	20.10	0.0	0.0	0.0	7.61	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
163	93.000	20.10	0.0	0.0	0.0	7.61	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
164	92.800	20.10	0.0	0.0	0.0	7.62	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
165	92.600	20.10	0.0	0.0	0.0	7.63	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
166	92.400	20.10	0.0	0.0	0.0	7.63	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
167	92.200	20.10	0.0	0.0	0.0	7.64	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
168	92.000	20.10	0.0	0.0	0.0	7.64	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
169	91.800	20.10	0.0	0.0	0.0	7.65	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
170	91.600	20.10	0.0	0.0	0.0	7.65	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
171	91.400	20.10	0.0	0.0	0.0	7.66	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
172	91.200	20.10	0.0	0.0	0.0	7.66	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
173	91.000	20.10	0.0	0.0	0.0	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
174	90.800	20.10	0.0	0.0	0.0	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
175	90.600	20.10	0.0	0.0	0.0	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
176	90.400	20.10	0.0	0.0	0.0	7.68	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
177	90.200	20.10	0.0	0.0	0.0	7.68	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
178	90.000	20.10	0.0	0.0	0.0	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
179	89.800	20.10	0.0	0.0	0.0	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
180	89.600	20.10	0.0	0.0	0.0	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
181	89.400	20.10	0.0	0.0	0.0	7.70	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
182	89.200	20.10	0.0	0.0	0.0	7.70	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
183	89.000	20.10	0.0	0.0	0.0	7.70	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
184	88.800	20.10	0.0	0.0	0.0	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
185	88.600	20.10	0.0	0.0	0.0	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
186	88.400	20.10	0.0	0.0	0.0	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
187	88.200	20.10	0.0	0.0	0.0	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
188	88.000	20.10	0.0	0.0	0.0	7.72	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
189	87.800	20.10	0.0	0.0	0.0	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
190	87.600	20.10	0.0	0.0	0.0	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
191	87.400	20.10	0.0	0.0	0.0	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
192	87.200	20.10	0.0	0.0	0.0	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
193	87.000	20.10	0.0	0.0	0.0	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
194	86.800	20.10	0.0	0.0	0.0	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
195	86.600	20.10	0.0	0.0	0.0	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
196	86.400	20.10	0.0	0.0	0.0	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
197	86.200	20.10	0.0	0.0	0.0	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
198	86.000	20.10	0.0	0.0	0.0	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
199	85.800	20.10	0.0	0.0	0.0	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
200	85.600	20.10	0.0	0.0	0.0	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
201	85.400	20.10	0.0	0.0	0.0	7.75	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
202	85.200	20.10	0.0	0.0	0.0	7.75	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
203	85.000	20.10	0.0	0.0	0.0	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
204	84.800	20.10	0.0	0.0	0.0	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
205	84.600	20.10	0.0	0.0	0.0	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
206	84.400	20.10	0.0	0.0	0.0	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
207	84.200	20.10	0.0	0.0	0.0	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
208	84.000	20.10	0.0	0.0	0.0	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
209	83.800	20.10	0.0	0.0	0.0	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
210	83.600	20.10	0.0	0.0	0.0	7.76	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
211	83.400	20.10	0.0	0.0	0.0	7.76	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00

212	83.200	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
213	83.000	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
214	82.800	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
215	82.600	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
216	82.400	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
217	82.200	20.10	0.0	0.0	0.0	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
218	82.000	20.10	0.0	0.0	0.0	7.77	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
219	81.800	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
220	81.600	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
221	81.400	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
222	81.200	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
223	81.000	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
224	80.800	20.10	0.0	0.0	0.0	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
225	80.600	20.10	0.0	0.0	0.0	7.78	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
226	80.400	20.10	0.0	0.0	0.0	7.78	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
227	80.200	20.10	0.0	0.0	0.0	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
228	80.000	20.10	0.0	0.0	0.0	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
229	79.800	20.10	0.0	0.0	0.0	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
230	79.600	20.10	0.0	0.0	0.0	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
231	79.400	20.10	0.0	0.0	0.0	7.62	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
232	79.200	20.10	0.0	0.0	0.0	7.63	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
233	79.000	20.10	0.0	0.0	0.0	7.64	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
234	78.800	20.10	0.0	0.0	0.0	7.65	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
235	78.601	20.10	0.0	0.0	0.0	7.66	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
236	78.401	20.10	0.0	0.0	0.0	7.66	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
237	78.201	20.10	0.0	0.0	0.0	7.67	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
238	78.001	20.10	0.0	0.0	0.0	7.68	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
239	77.801	20.10	0.0	0.0	0.0	7.68	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
240	77.601	20.10	0.0	0.0	0.0	7.69	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
241	77.401	20.10	0.0	0.0	0.0	7.70	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
242	77.200	20.11	0.0	0.0	0.0	7.68	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
243	77.000	20.11	0.0	0.0	0.0	7.67	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
244	76.800	20.12	0.0	0.0	0.0	7.66	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
245	76.600	20.13	0.0	0.0	0.0	7.65	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
246	76.400	20.14	0.0	0.0	0.0	7.64	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
247	76.200	20.14	0.0	0.0	0.0	7.64	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
248	76.000	20.15	0.0	0.0	0.0	7.63	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
249	75.800	20.16	0.0	0.0	0.0	7.62	1.82	0.00	1.82	0.00	1.28	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
250	75.600	20.17	0.0	0.0	0.0	7.61	1.82	0.00	1.82	0.00	1.29	0.21	0.00	1.49	0.00	20.0	0.0	0.	0.00
251	75.400	20.17	0.0	0.0	0.0	7.60	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
252	75.200	20.18	0.0	0.0	0.0	7.59	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
253	75.000	20.19	0.0	0.0	0.0	7.59	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
254	74.800	20.20	0.0	0.0	0.0	7.58	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
255	74.600	20.20	0.0	0.0	0.0	7.57	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
256	74.400	20.21	0.0	0.0	0.0	7.57	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
257	74.200	20.22	0.0	0.0	0.0	7.56	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
258	74.000	20.23	0.0	0.0	0.0	7.55	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
259	73.800	20.23	0.0	0.0	0.0	7.55	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
260	73.600	20.24	0.0	0.0	0.0	7.54	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
261	73.400	20.25	0.0	0.0	0.0	7.54	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00
262	73.200	20.26	0.0	0.0	0.0	7.53	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.0	0.0	0.	0.00

263	73.000	20.26	0.0	0.0	0.0	7.53	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
264	72.800	20.27	0.0	0.0	0.0	7.52	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
265	72.600	20.28	0.0	0.0	0.0	7.52	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
266	72.400	20.29	0.0	0.0	0.0	7.51	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
267	72.200	20.29	0.0	0.0	0.0	7.51	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
268	72.000	20.30	0.0	0.0	0.0	7.50	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
269	71.800	20.31	0.0	0.0	0.0	7.50	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
270	71.600	20.31	0.0	0.0	0.0	7.49	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
271	71.400	20.32	0.0	0.0	0.0	7.49	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
272	71.200	20.33	0.0	0.0	0.0	7.49	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
273	71.000	20.34	0.0	0.0	0.0	7.48	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
274	70.800	20.34	0.0	0.0	0.0	7.48	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
275	70.600	20.35	0.0	0.0	0.0	7.47	1.73	0.00	1.73	0.00	1.30	0.21	0.00	1.51	0.00	20.0	0.0	0.	0.00
276	70.400	20.36	0.0	0.0	0.0	7.47	1.73	0.00	1.73	0.00	1.30	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
277	70.200	20.37	0.0	0.0	0.0	7.47	1.73	0.00	1.73	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
278	70.000	20.37	0.0	0.0	0.0	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
279	69.800	20.38	0.0	0.0	0.0	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
280	69.600	20.39	0.0	0.0	0.0	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
281	69.400	20.40	0.0	0.0	0.0	7.46	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
282	69.200	20.40	0.0	0.0	0.0	7.45	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
283	69.000	20.41	0.0	0.0	0.0	7.45	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
284	68.800	20.42	0.0	0.0	0.0	7.45	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
285	68.600	20.43	0.0	0.0	0.0	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
286	68.400	20.43	0.0	0.0	0.0	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
287	68.200	20.44	0.0	0.0	0.0	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
288	68.000	20.45	0.0	0.0	0.0	7.44	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
289	67.800	20.46	0.0	0.0	0.0	7.43	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.52	0.00	20.0	0.0	0.	0.00
290	67.600	20.46	0.0	0.0	0.0	7.43	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
291	67.400	20.47	0.0	0.0	0.0	7.43	1.68	0.00	1.68	0.00	1.31	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
292	67.200	20.48	0.0	0.0	0.0	7.43	1.68	0.00	1.68	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
293	67.000	20.49	0.0	0.0	0.0	7.42	1.68	0.00	1.68	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
294	66.800	20.49	0.0	0.0	0.0	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
295	66.600	20.50	0.0	0.0	0.0	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
296	66.400	20.51	0.0	0.0	0.0	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
297	66.200	20.51	0.0	0.0	0.0	7.42	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
298	66.000	20.52	0.0	0.0	0.0	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
299	65.800	20.53	0.0	0.0	0.0	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
300	65.600	20.54	0.0	0.0	0.0	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
301	65.400	20.54	0.0	0.0	0.0	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
302	65.200	20.55	0.0	0.0	0.0	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
303	65.000	20.56	0.0	0.0	0.0	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
304	64.800	20.57	0.0	0.0	0.0	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.53	0.00	20.0	0.0	0.	0.00
305	64.600	20.57	0.0	0.0	0.0	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
306	64.400	20.58	0.0	0.0	0.0	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
307	64.200	20.59	0.0	0.0	0.0	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
308	64.000	20.60	0.0	0.0	0.0	7.40	1.63	0.00	1.63	0.00	1.32	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
309	63.800	20.60	0.0	0.0	0.0	7.40	1.63	0.00	1.63	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
310	63.600	20.61	0.0	0.0	0.0	7.39	1.63	0.00	1.63	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
311	63.400	20.62	0.0	0.0	0.0	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
312	63.200	20.63	0.0	0.0	0.0	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
313	63.000	20.63	0.0	0.0	0.0	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00

314	62.800	20.64	0.0	0.0	0.0	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
315	62.600	20.65	0.0	0.0	0.0	7.39	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
316	62.400	20.66	0.0	0.0	0.0	7.39	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
317	62.200	20.66	0.0	0.0	0.0	7.38	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
318	62.000	20.67	0.0	0.0	0.0	7.38	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
319	61.800	20.68	0.0	0.0	0.0	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
320	61.600	20.69	0.0	0.0	0.0	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.54	0.00	20.0	0.0	0.	0.00
321	61.400	20.69	0.0	0.0	0.0	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
322	61.200	20.70	0.0	0.0	0.0	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
323	61.000	20.71	0.0	0.0	0.0	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
324	60.800	20.71	0.0	0.0	0.0	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
325	60.600	20.72	0.0	0.0	0.0	7.37	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
326	60.400	20.73	0.0	0.0	0.0	7.37	1.58	0.00	1.58	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
327	60.200	20.74	0.0	0.0	0.0	7.37	1.58	0.00	1.58	0.00	1.33	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
328	60.000	20.74	0.0	0.0	0.0	7.37	1.58	0.00	1.58	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
329	59.800	20.75	0.0	0.0	0.0	7.37	1.58	0.00	1.58	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
330	59.600	20.76	0.0	0.0	0.0	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
331	59.400	20.77	0.0	0.0	0.0	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
332	59.200	20.77	0.0	0.0	0.0	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
333	59.000	20.78	0.0	0.0	0.0	7.36	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
334	58.800	20.79	0.0	0.0	0.0	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
335	58.600	20.80	0.0	0.0	0.0	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
336	58.400	20.80	0.0	0.0	0.0	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
337	58.200	20.81	0.0	0.0	0.0	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
338	58.000	20.82	0.0	0.0	0.0	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.55	0.00	20.0	0.0	0.	0.00
339	57.800	20.83	0.0	0.0	0.0	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
340	57.600	20.83	0.0	0.0	0.0	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
341	57.400	20.84	0.0	0.0	0.0	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
342	57.200	20.85	0.0	0.0	0.0	7.36	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
343	57.000	20.86	0.0	0.0	0.0	7.35	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
344	56.800	20.86	0.0	0.0	0.0	7.35	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.0	0.0	0.	0.00
345	56.600	20.87	0.0	0.0	0.0	7.35	1.54	0.00	1.54	0.00	1.34	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
346	56.400	20.88	0.0	0.0	0.0	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
347	56.200	20.89	0.0	0.0	0.0	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
348	56.000	20.89	0.0	0.0	0.0	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
349	55.800	20.90	0.0	0.0	0.0	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
350	55.600	20.91	0.0	0.0	0.0	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
351	55.400	20.91	0.0	0.0	0.0	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
352	55.200	20.92	0.0	0.0	0.0	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
353	55.000	20.93	0.0	0.0	0.0	7.34	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
354	54.800	20.94	0.0	0.0	0.0	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
355	54.600	20.94	0.0	0.0	0.0	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
356	54.400	20.95	0.0	0.0	0.0	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
357	54.200	20.96	0.0	0.0	0.0	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
358	54.000	20.97	0.0	0.0	0.0	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
359	53.800	20.97	0.0	0.0	0.0	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.56	0.00	20.0	0.0	0.	0.00
360	53.600	20.98	0.0	0.0	0.0	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
361	53.400	20.99	0.0	0.0	0.0	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
362	53.200	21.00	0.0	0.0	0.0	7.34	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
363	53.000	21.00	0.0	0.0	0.0	7.34	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
364	52.800	21.01	0.0	0.0	0.0	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00

365	52.600	21.02	0.0	0.0	0.0	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
366	52.400	21.03	0.0	0.0	0.0	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
367	52.200	21.03	0.0	0.0	0.0	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
368	52.000	21.04	0.0	0.0	0.0	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
369	51.800	21.05	0.0	0.0	0.0	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
370	51.600	21.06	0.0	0.0	0.0	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
371	51.400	21.06	0.0	0.0	0.0	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
372	51.200	21.07	0.0	0.0	0.0	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
373	51.000	21.08	0.0	0.0	0.0	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
374	50.800	21.09	0.0	0.0	0.0	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
375	50.600	21.09	0.0	0.0	0.0	7.32	1.47	0.00	1.47	0.00	1.36	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
376	50.400	21.10	0.0	0.0	0.0	7.32	1.46	0.00	1.46	0.00	1.36	0.22	0.00	1.57	0.00	20.0	0.0	0.	0.00
377	50.200	21.10	0.0	0.0	0.0	7.04	2.50	0.00	2.50	0.00	1.37	0.22	0.00	1.60	0.00	20.0	0.0	0.	0.00
378	50.000	21.10	0.0	0.0	0.0	6.87	3.36	0.00	3.36	0.00	1.39	0.23	0.00	1.62	0.00	20.0	0.0	0.	0.00
379	49.800	21.10	0.0	0.0	0.0	6.75	4.08	0.00	4.08	0.00	1.41	0.23	0.00	1.64	0.00	20.0	0.0	0.	0.00
380	49.600	21.10	0.0	0.0	0.0	6.66	4.68	0.00	4.68	0.00	1.42	0.24	0.00	1.66	0.00	20.0	0.0	0.	0.00
381	49.400	21.10	0.0	0.0	0.0	6.58	5.18	0.00	5.18	0.00	1.44	0.24	0.00	1.68	0.00	20.0	0.0	0.	0.00
382	49.200	21.10	0.0	0.0	0.0	6.52	5.60	0.00	5.60	0.00	1.45	0.24	0.00	1.69	0.00	20.0	0.0	0.	0.00
383	49.000	21.10	0.0	0.0	0.0	6.47	5.95	0.00	5.95	0.00	1.46	0.25	0.00	1.71	0.00	20.0	0.0	0.	0.00
384	48.800	21.10	0.0	0.0	0.0	6.43	6.24	0.00	6.24	0.00	1.47	0.25	0.00	1.72	0.00	20.0	0.0	0.	0.00
385	48.600	21.10	0.0	0.0	0.0	6.40	6.48	0.00	6.48	0.00	1.48	0.25	0.00	1.74	0.00	20.0	0.0	0.	0.00
386	48.400	21.10	0.0	0.0	0.0	6.37	6.68	0.00	6.68	0.00	1.49	0.26	0.00	1.75	0.00	20.0	0.0	0.	0.00
387	48.200	21.10	0.0	0.0	0.0	6.35	6.85	0.00	6.85	0.00	1.50	0.26	0.00	1.76	0.00	20.0	0.0	0.	0.00
388	48.000	21.10	0.0	0.0	0.0	6.32	6.98	0.00	6.98	0.00	1.51	0.26	0.00	1.77	0.00	20.0	0.0	0.	0.00
389	47.800	21.10	0.0	0.0	0.0	6.31	7.10	0.00	7.10	0.00	1.52	0.26	0.00	1.78	0.00	20.0	0.0	0.	0.00
390	47.600	21.10	0.0	0.0	0.0	6.29	7.20	0.00	7.20	0.00	1.53	0.26	0.00	1.79	0.00	20.0	0.0	0.	0.00
391	47.400	21.10	0.0	0.0	0.0	6.28	7.28	0.00	7.28	0.00	1.54	0.27	0.00	1.80	0.00	20.0	0.0	0.	0.00
392	47.200	21.10	0.0	0.0	0.0	6.27	7.35	0.00	7.35	0.00	1.54	0.27	0.00	1.81	0.00	20.0	0.0	0.	0.00
393	47.000	21.10	0.0	0.0	0.0	6.26	7.40	0.00	7.40	0.00	1.55	0.27	0.00	1.82	0.00	20.0	0.0	0.	0.00
394	46.800	21.10	0.0	0.0	0.0	6.25	7.45	0.00	7.45	0.00	1.56	0.27	0.00	1.82	0.00	20.0	0.0	0.	0.00
395	46.600	21.10	0.0	0.0	0.0	6.25	7.49	0.00	7.49	0.00	1.56	0.27	0.00	1.83	0.00	20.0	0.0	0.	0.00
396	46.400	21.10	0.0	0.0	0.0	6.24	7.53	0.00	7.53	0.00	1.57	0.27	0.00	1.84	0.00	20.0	0.0	0.	0.00
397	46.200	21.10	0.0	0.0	0.0	6.24	7.56	0.00	7.56	0.00	1.57	0.27	0.00	1.84	0.00	20.0	0.0	0.	0.00
398	46.000	21.10	0.0	0.0	0.0	6.23	7.58	0.00	7.58	0.00	1.58	0.27	0.00	1.85	0.00	20.0	0.0	0.	0.00
399	45.800	21.10	0.0	0.0	0.0	6.23	7.60	0.00	7.60	0.00	1.58	0.28	0.00	1.86	0.00	20.0	0.0	0.	0.00
400	45.600	21.10	0.0	0.0	0.0	6.23	7.61	0.00	7.61	0.00	1.59	0.28	0.00	1.86	0.00	20.0	0.0	0.	0.00
401	45.400	21.10	0.0	0.0	0.0	6.22	7.63	0.00	7.63	0.00	1.59	0.28	0.00	1.87	0.00	20.0	0.0	0.	0.00
402	45.200	21.10	0.0	0.0	0.0	6.22	7.64	0.00	7.64	0.00	1.59	0.28	0.00	1.87	0.00	20.0	0.0	0.	0.00
403	45.000	21.10	0.0	0.0	0.0	6.22	7.65	0.00	7.65	0.00	1.60	0.28	0.00	1.87	0.00	20.0	0.0	0.	0.00
404	44.800	21.10	0.0	0.0	0.0	6.22	7.66	0.00	7.66	0.00	1.60	0.28	0.00	1.88	0.00	20.0	0.0	0.	0.00
405	44.600	21.10	0.0	0.0	0.0	6.22	7.67	0.00	7.67	0.00	1.60	0.28	0.00	1.88	0.00	20.0	0.0	0.	0.00
406	44.400	21.10	0.0	0.0	0.0	6.21	7.67	0.00	7.67	0.00	1.61	0.28	0.00	1.89	0.00	20.0	0.0	0.	0.00
407	44.200	21.10	0.0	0.0	0.0	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.89	0.00	20.0	0.0	0.	0.00
408	44.000	21.10	0.0	0.0	0.0	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.89	0.00	20.0	0.0	0.	0.00
409	43.800	21.10	0.0	0.0	0.0	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.90	0.00	20.0	0.0	0.	0.00
410	43.600	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.0	0.0	0.	0.00
411	43.400	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.0	0.0	0.	0.00
412	43.200	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.0	0.0	0.	0.00
413	43.000	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.0	0.0	0.	0.00
414	42.800	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.0	0.0	0.	0.00
415	42.600	21.10	0.0	0.0	0.0	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.0	0.0	0.	0.00

416	42.400	21.10	0.0	0.0	0.0	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.0	0.0	0.	0.00
417	42.200	21.10	0.0	0.0	0.0	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.0	0.0	0.	0.00
418	42.000	21.10	0.0	0.0	0.0	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.0	0.0	0.	0.00
419	41.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
420	41.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
421	41.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
422	41.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
423	41.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
424	40.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
425	40.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.92	0.00	20.0	0.0	0.	0.00
426	40.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
427	40.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
428	40.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
429	39.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
430	39.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
431	39.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
432	39.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
433	39.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
434	38.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
435	38.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
436	38.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
437	38.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
438	38.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
439	37.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
440	37.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
441	37.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.0	0.0	0.	0.00
442	37.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
443	37.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
444	36.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
445	36.600	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
446	36.400	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
447	36.200	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
448	36.000	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
449	35.800	21.10	0.0	0.0	0.0	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
450	35.600	21.10	0.0	0.0	0.0	5.92	7.72	0.00	7.72	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
451	35.400	21.10	0.0	0.0	0.0	5.82	7.73	0.00	7.73	0.00	1.65	0.29	0.00	1.94	0.00	20.0	0.0	0.	0.00
452	35.200	21.10	0.0	0.0	0.0	5.79	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
453	35.000	21.10	0.0	0.0	0.0	5.77	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
454	34.800	21.10	0.0	0.0	0.0	5.77	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
455	34.600	21.10	0.0	0.0	0.0	5.77	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
456	34.400	21.10	0.0	0.0	0.0	5.77	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
457	34.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
458	34.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
459	33.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
460	33.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
461	33.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
462	33.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
463	33.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
464	32.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
465	32.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
466	32.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00

467	32.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
468	32.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
469	31.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
470	31.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
471	31.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
472	31.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
473	31.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
474	30.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
475	30.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
476	30.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
477	30.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
478	30.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
479	29.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
480	29.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
481	29.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
482	29.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
483	29.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
484	28.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
485	28.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
486	28.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
487	28.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
488	28.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
489	27.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
490	27.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
491	27.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
492	27.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
493	27.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
494	26.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
495	26.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
496	26.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
497	26.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
498	26.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
499	25.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
500	25.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
501	25.400	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
502	25.200	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
503	25.000	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
504	24.800	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
505	24.600	21.10	0.0	0.0	0.0	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.0	0.0	0.	0.00
506	24.400	21.12	0.0	0.0	0.0	5.53	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.4	0.0	0.	0.00
507	24.200	21.14	0.0	0.0	0.0	5.36	7.73	0.00	7.73	0.00	1.66	0.29	0.00	1.95	0.00	20.8	0.0	0.	0.00
508	24.000	21.15	0.0	0.0	0.0	5.23	7.73	0.00	7.73	0.00	1.66	0.29	0.00	1.95	0.00	21.3	0.0	0.	0.00
509	23.800	21.17	0.0	0.0	0.0	5.15	7.72	0.00	7.72	0.00	1.66	0.29	0.00	1.95	0.00	21.7	0.0	0.	0.00
510	23.600	21.19	0.0	0.0	0.0	5.10	7.72	0.00	7.72	0.00	1.65	0.30	0.00	1.95	0.00	22.1	0.0	0.	0.00
511	23.400	21.21	0.0	0.0	0.0	5.07	7.71	0.00	7.71	0.00	1.65	0.30	0.00	1.95	0.00	22.5	0.0	0.	0.00
512	23.200	21.23	0.0	0.0	0.0	5.06	7.71	0.00	7.71	0.00	1.65	0.30	0.00	1.95	0.00	23.0	0.0	0.	0.00
513	23.000	21.25	0.0	0.0	0.0	5.07	7.70	0.00	7.70	0.00	1.65	0.30	0.00	1.95	0.00	23.4	0.0	0.	0.00
514	22.800	21.26	0.0	0.0	0.0	5.10	7.69	0.00	7.69	0.00	1.65	0.30	0.00	1.95	0.00	23.8	0.0	0.	0.00
515	22.600	21.28	0.0	0.0	0.0	5.13	7.69	0.00	7.69	0.00	1.65	0.30	0.00	1.95	0.00	24.2	0.0	0.	0.00
516	22.400	21.30	0.0	0.0	0.0	5.17	7.68	0.00	7.68	0.00	1.65	0.29	0.00	1.95	0.00	24.7	0.0	0.	0.00
517	22.200	21.32	0.0	0.0	0.0	5.22	7.68	0.00	7.68	0.00	1.65	0.29	0.00	1.94	0.00	25.1	0.0	0.	0.00

518	22.000	21.34	0.0	0.0	0.0	5.27	7.67	0.00	7.67	0.00	1.65	0.29	0.00	1.94	0.00	25.5	0.0	0.	0.00
519	21.800	21.35	0.0	0.0	0.0	5.33	7.66	0.00	7.66	0.00	1.65	0.29	0.00	1.94	0.00	25.9	0.0	0.	0.00
520	21.600	21.37	0.0	0.0	0.0	5.40	7.66	0.00	7.66	0.00	1.65	0.29	0.00	1.94	0.00	26.4	0.0	0.	0.00
521	21.400	21.39	0.0	0.0	0.0	5.46	7.65	0.00	7.65	0.00	1.65	0.29	0.00	1.94	0.00	26.8	0.0	0.	0.00
522	21.200	21.41	0.0	0.0	0.0	5.53	7.65	0.00	7.65	0.00	1.65	0.29	0.00	1.94	0.00	27.2	0.0	0.	0.00
523	21.000	21.43	0.0	0.0	0.0	5.60	7.64	0.00	7.64	0.00	1.65	0.29	0.00	1.94	0.00	27.6	0.0	0.	0.00
524	20.800	21.45	0.0	0.0	0.0	5.67	7.63	0.00	7.63	0.00	1.65	0.29	0.00	1.94	0.00	28.1	0.0	0.	0.00
525	20.600	21.46	0.0	0.0	0.0	5.75	7.63	0.00	7.63	0.00	1.64	0.29	0.00	1.93	0.00	28.5	0.0	0.	0.00
526	20.400	21.48	0.0	0.0	0.0	5.82	7.62	0.00	7.62	0.00	1.64	0.29	0.00	1.93	0.00	28.9	0.0	0.	0.00
527	20.200	21.50	0.0	0.0	0.0	5.90	7.61	0.00	7.61	0.00	1.64	0.29	0.00	1.93	0.00	29.3	0.0	0.	0.00
528	20.000	21.52	0.0	0.0	0.0	5.97	7.61	0.00	7.61	0.00	1.64	0.29	0.00	1.93	0.00	29.8	0.0	0.	0.00
529	19.800	21.54	0.0	0.0	0.0	6.05	7.60	0.00	7.60	0.00	1.64	0.29	0.00	1.93	0.00	30.2	0.0	0.	0.00
530	19.600	21.55	0.0	0.0	0.0	6.13	7.60	0.00	7.60	0.00	1.64	0.29	0.00	1.93	0.00	30.6	0.0	0.	0.00
531	19.400	21.57	0.0	0.0	0.0	6.21	7.59	0.00	7.59	0.00	1.64	0.29	0.00	1.93	0.00	31.0	0.0	0.	0.00
532	19.200	21.59	0.0	0.0	0.0	6.28	7.58	0.00	7.58	0.00	1.64	0.29	0.00	1.93	0.00	31.5	0.0	0.	0.00
533	19.000	21.61	0.0	0.0	0.0	6.36	7.58	0.00	7.58	0.00	1.64	0.28	0.00	1.92	0.00	31.9	0.0	0.	0.00
534	18.800	21.63	0.0	0.0	0.0	6.44	7.57	0.00	7.57	0.00	1.64	0.28	0.00	1.92	0.00	32.3	0.0	0.	0.00
535	18.600	21.65	0.0	0.0	0.0	6.52	7.56	0.00	7.56	0.00	1.64	0.28	0.00	1.92	0.00	32.7	0.0	0.	0.00
536	18.400	21.66	0.0	0.0	0.0	6.60	7.56	0.00	7.56	0.00	1.64	0.28	0.00	1.92	0.00	33.2	0.0	0.	0.00
537	18.200	21.68	0.0	0.0	0.0	6.68	7.55	0.00	7.55	0.00	1.64	0.28	0.00	1.92	0.00	33.6	0.0	0.	0.00
538	18.000	21.70	0.0	0.0	0.0	6.76	7.55	0.00	7.55	0.00	1.64	0.28	0.00	1.92	0.00	34.0	0.0	0.	0.00
539	17.800	21.70	0.0	0.0	0.0	5.62	4.57	0.00	4.57	0.00	1.49	0.24	0.00	1.73	0.00	34.8	0.0	0.	0.00
540	17.600	21.70	0.0	0.0	0.0	5.67	4.80	0.00	4.80	0.00	1.50	0.24	0.00	1.74	0.00	35.6	0.0	0.	0.00
541	17.400	21.70	0.0	0.0	0.0	5.72	5.04	0.00	5.04	0.00	1.50	0.24	0.00	1.75	0.00	36.4	0.0	0.	0.00
542	17.200	21.70	0.0	0.0	0.0	5.77	5.26	0.00	5.26	0.00	1.51	0.25	0.00	1.76	0.00	37.2	0.0	0.	0.00
543	17.000	21.70	0.0	0.0	0.0	5.83	5.47	0.00	5.47	0.00	1.52	0.25	0.00	1.77	0.00	38.0	0.0	0.	0.00
544	16.800	21.70	0.0	0.0	0.0	5.88	5.68	0.00	5.68	0.00	1.53	0.25	0.00	1.77	0.00	38.8	0.0	0.	0.00
545	16.600	21.70	0.0	0.0	0.0	5.93	5.88	0.00	5.88	0.00	1.53	0.25	0.00	1.78	0.00	39.6	0.0	0.	0.00
546	16.400	21.70	0.0	0.0	0.0	5.98	6.07	0.00	6.07	0.00	1.54	0.25	0.00	1.79	0.00	40.4	0.0	0.	0.00
547	16.200	21.70	0.0	0.0	0.0	6.04	6.25	0.00	6.25	0.00	1.55	0.25	0.00	1.80	0.00	41.2	0.0	0.	0.00
548	16.000	21.70	0.0	0.0	0.0	6.09	6.43	0.00	6.43	0.00	1.56	0.25	0.00	1.81	0.00	42.0	0.0	0.	0.00
579	15.800	21.70	0.0	0.0	0.0	6.09	9.74	0.00	9.74	0.00	1.60	0.26	0.00	1.86	0.00	42.3	0.0	0.	0.00
580	15.600	21.70	0.0	0.0	0.0	6.06	9.73	0.00	9.73	0.00	1.60	0.26	0.00	1.86	0.00	42.6	0.0	0.	0.00
581	15.400	21.70	0.0	0.0	0.0	6.04	9.73	0.00	9.73	0.00	1.60	0.26	0.00	1.86	0.00	42.9	0.0	0.	0.00
582	15.200	21.70	0.0	0.0	0.0	6.02	9.72	0.00	9.72	0.00	1.60	0.26	0.00	1.86	0.00	43.2	0.0	0.	0.00
583	15.000	21.70	0.0	0.0	0.0	5.99	9.71	0.00	9.71	0.00	1.60	0.26	0.00	1.86	0.00	43.5	0.0	0.	0.00
584	14.800	21.70	0.0	0.0	0.0	5.97	9.70	0.00	9.70	0.00	1.60	0.26	0.00	1.86	0.00	43.8	0.0	0.	0.00
585	14.600	21.70	0.0	0.0	0.0	5.96	9.69	0.00	9.69	0.00	1.60	0.26	0.00	1.86	0.00	44.2	0.0	0.	0.00
586	14.400	21.70	0.0	0.0	0.0	5.94	9.69	0.00	9.69	0.00	1.60	0.26	0.00	1.87	0.00	44.5	0.0	0.	0.00
587	14.200	21.70	0.0	0.0	0.0	5.93	9.68	0.00	9.68	0.00	1.60	0.26	0.00	1.87	0.00	44.8	0.0	0.	0.00
588	14.000	21.70	0.0	0.0	0.0	5.92	9.67	0.00	9.67	0.00	1.60	0.26	0.00	1.87	0.00	45.1	0.0	0.	0.00
589	13.800	21.70	0.0	0.0	0.0	5.91	9.67	0.00	9.67	0.00	1.61	0.26	0.00	1.87	0.00	45.4	0.0	0.	0.00
590	13.600	21.70	0.0	0.0	0.0	5.90	9.66	0.00	9.66	0.00	1.61	0.26	0.00	1.87	0.00	45.7	0.0	0.	0.00
591	13.400	21.70	0.0	0.0	0.0	5.89	9.65	0.00	9.65	0.00	1.61	0.26	0.00	1.87	0.00	46.0	0.0	0.	0.00
592	13.200	21.70	0.0	0.0	0.0	5.89	9.64	0.00	9.64	0.00	1.61	0.27	0.00	1.87	0.00	46.3	0.0	0.	0.00
593	13.000	21.70	0.0	0.0	0.0	5.88	9.64	0.00	9.64	0.00	1.61	0.27	0.00	1.87	0.00	46.6	0.0	0.	0.00
594	12.800	21.70	0.0	0.0	0.0	5.88	9.63	0.00	9.63	0.00	1.61	0.27	0.00	1.88	0.00	46.9	0.0	0.	0.00
595	12.600	21.70	0.0	0.0	0.0	5.88	9.62	0.00	9.62	0.00	1.61	0.27	0.00	1.88	0.00	47.2	0.0	0.	0.00
596	12.400	21.70	0.0	0.0	0.0	5.88	9.62	0.00	9.62	0.00	1.61	0.27	0.00	1.88	0.00	47.5	0.0	0.	0.00
597	12.200	21.70	0.0	0.0	0.0	5.88	9.61	0.00	9.61	0.00	1.61	0.27	0.00	1.88	0.00	47.8	0.0	0.	0.00
598	12.000	21.70	0.0	0.0	0.0	5.89	9.60	0.00	9.60	0.00	1.61	0.27	0.00	1.88	0.00	48.2	0.0	0.	0.00

599	11.800	21.70	0.0	0.0	0.0	5.89	9.60	0.00	9.60	0.00	1.61	0.27	0.00	1.88	0.00	48.5	0.0	0.	0.00
600	11.600	21.70	0.0	0.0	0.0	5.90	9.59	0.00	9.59	0.00	1.62	0.27	0.00	1.88	0.00	48.8	0.0	0.	0.00
601	11.400	21.70	0.0	0.0	0.0	5.91	9.59	0.00	9.59	0.00	1.62	0.27	0.00	1.88	0.00	49.1	0.0	0.	0.00
602	11.200	21.70	0.0	0.0	0.0	5.91	9.58	0.00	9.58	0.00	1.62	0.27	0.00	1.88	0.00	49.4	0.0	0.	0.00
603	11.000	21.70	0.0	0.0	0.0	5.92	9.57	0.00	9.57	0.00	1.62	0.27	0.00	1.89	0.00	49.7	0.0	0.	0.00
604	10.800	21.70	0.0	0.0	0.0	5.93	9.57	0.00	9.57	0.00	1.62	0.27	0.00	1.89	0.00	50.0	0.0	0.	0.00
605	10.600	21.70	0.0	0.0	0.0	5.94	9.64	0.00	9.64	0.00	1.62	0.27	0.00	1.89	0.00	50.0	0.0	0.	0.00
606	10.400	21.70	0.0	0.0	0.0	5.94	9.71	0.00	9.71	0.00	1.62	0.27	0.00	1.89	0.00	50.0	0.0	0.	0.00
607	10.200	21.70	0.0	0.0	0.0	5.95	9.77	0.00	9.77	0.00	1.62	0.27	0.00	1.89	0.00	50.0	0.0	0.	0.00
608	10.000	21.70	0.0	0.0	0.0	5.95	9.84	0.00	9.84	0.00	1.63	0.27	0.00	1.89	0.00	50.0	0.0	0.	0.00
609	9.800	21.70	0.0	0.0	0.0	5.95	9.91	0.00	9.91	0.00	1.63	0.27	0.00	1.90	0.00	50.0	0.0	0.	0.00
610	9.600	21.70	0.0	0.0	0.0	5.95	9.97	0.00	9.97	0.00	1.63	0.27	0.00	1.90	0.00	50.0	0.0	0.	0.00
611	9.400	21.70	0.0	0.0	0.0	5.95	10.04	0.00	10.04	0.00	1.63	0.27	0.00	1.90	0.00	50.0	0.0	0.	0.00
612	9.200	21.70	0.0	0.0	0.0	5.95	10.10	0.00	10.10	0.00	1.63	0.27	0.00	1.90	0.00	50.0	0.0	0.	0.00
613	9.000	21.70	0.0	0.0	0.0	5.94	10.16	0.00	10.16	0.00	1.64	0.27	0.00	1.91	0.00	50.0	0.0	0.	0.00
614	8.800	21.70	0.0	0.0	0.0	5.94	10.22	0.00	10.22	0.00	1.64	0.27	0.00	1.91	0.00	50.0	0.0	0.	0.00
615	8.600	21.70	0.0	0.0	0.0	5.94	10.28	0.00	10.28	0.00	1.64	0.27	0.00	1.91	0.00	50.0	0.0	0.	0.00
616	8.400	21.70	0.0	0.0	0.0	5.93	10.35	0.00	10.35	0.00	1.64	0.27	0.00	1.91	0.00	50.0	0.0	0.	0.00
617	8.200	21.70	0.0	0.0	0.0	5.93	10.40	0.00	10.40	0.00	1.64	0.27	0.00	1.91	0.00	50.0	0.0	0.	0.00
618	8.000	21.70	0.0	0.0	0.0	5.92	10.46	0.00	10.46	0.00	1.64	0.27	0.00	1.92	0.00	50.0	0.0	0.	0.00
619	7.800	21.70	0.0	0.0	0.0	5.92	10.52	0.00	10.52	0.00	1.65	0.27	0.00	1.92	0.00	50.0	0.0	0.	0.00
620	7.600	21.70	0.0	0.0	0.0	5.91	10.58	0.00	10.58	0.00	1.65	0.27	0.00	1.92	0.00	50.0	0.0	0.	0.00
621	7.400	21.70	0.0	0.0	0.0	5.90	10.64	0.00	10.64	0.00	1.65	0.27	0.00	1.92	0.00	50.0	0.0	0.	0.00
622	7.200	21.70	0.0	0.0	0.0	5.90	10.69	0.00	10.69	0.00	1.65	0.27	0.00	1.92	0.00	50.0	0.0	0.	0.00
623	7.000	21.70	0.0	0.0	0.0	5.89	10.75	0.00	10.75	0.00	1.65	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
624	6.800	21.70	0.0	0.0	0.0	5.88	10.80	0.00	10.80	0.00	1.65	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
625	6.600	21.70	0.0	0.0	0.0	5.87	10.86	0.00	10.86	0.00	1.66	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
626	6.400	21.70	0.0	0.0	0.0	5.86	10.91	0.00	10.91	0.00	1.66	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
627	6.200	21.70	0.0	0.0	0.0	5.85	10.96	0.00	10.96	0.00	1.66	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
628	6.000	21.70	0.0	0.0	0.0	5.84	11.01	0.00	11.01	0.00	1.66	0.27	0.00	1.93	0.00	50.0	0.0	0.	0.00
629	5.800	21.70	0.0	0.0	0.0	5.83	11.07	0.00	11.07	0.00	1.66	0.27	0.00	1.94	0.00	50.0	0.0	0.	0.00
630	5.600	21.70	0.0	0.0	0.0	5.82	11.12	0.00	11.12	0.00	1.66	0.27	0.00	1.94	0.00	50.0	0.0	0.	0.00
631	5.400	21.70	0.0	0.0	0.0	5.81	11.17	0.00	11.17	0.00	1.67	0.27	0.00	1.94	0.00	50.0	0.0	0.	0.00
632	5.200	21.70	0.0	0.0	0.0	5.80	11.22	0.00	11.22	0.00	1.67	0.28	0.00	1.94	0.00	50.0	0.0	0.	0.00
633	5.000	21.70	0.0	0.0	0.0	5.79	11.26	0.00	11.26	0.00	1.67	0.28	0.00	1.94	0.00	50.0	0.0	0.	0.00
634	4.800	21.70	0.0	0.0	0.0	5.78	11.31	0.00	11.31	0.00	1.67	0.28	0.00	1.95	0.00	50.0	0.0	0.	0.00
635	4.600	21.70	0.0	0.0	0.0	5.77	11.36	0.00	11.36	0.00	1.67	0.28	0.00	1.95	0.00	50.0	0.0	0.	0.00
636	4.400	21.70	0.0	0.0	0.0	5.76	11.41	0.00	11.41	0.00	1.67	0.28	0.00	1.95	0.00	50.0	0.0	0.	0.00
637	4.200	21.70	0.0	0.0	0.0	5.74	11.45	0.00	11.45	0.00	1.68	0.28	0.00	1.95	0.00	50.0	0.0	0.	0.00
638	4.000	21.70	0.0	0.0	0.0	5.73	11.50	0.00	11.50	0.00	1.68	0.28	0.00	1.95	0.00	50.0	0.0	0.	0.00
639	3.800	21.70	0.0	0.0	0.0	5.72	11.54	0.00	11.54	0.00	1.68	0.28	0.00	1.96	0.00	50.0	0.0	0.	0.00
640	3.600	21.70	0.0	0.0	0.0	5.71	11.59	0.00	11.59	0.00	1.68	0.28	0.00	1.96	0.00	50.0	0.0	0.	0.00
641	3.400	21.70	0.0	0.0	0.0	5.69	11.63	0.00	11.63	0.00	1.68	0.28	0.00	1.96	0.00	50.0	0.0	0.	0.00
642	3.200	21.70	0.0	0.0	0.0	5.68	11.68	0.00	11.68	0.00	1.68	0.28	0.00	1.96	0.00	50.0	0.0	0.	0.00
643	3.000	21.70	0.0	0.0	0.0	5.67	11.72	0.00	11.72	0.00	1.68	0.28	0.00	1.96	0.00	50.0	0.0	0.	0.00
644	2.800	21.70	0.0	0.0	0.0	5.66	11.76	0.00	11.76	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00
645	2.600	21.70	0.0	0.0	0.0	5.64	11.80	0.00	11.80	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00
646	2.400	21.70	0.0	0.0	0.0	5.63	11.85	0.00	11.85	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00
647	2.200	21.70	0.0	0.0	0.0	5.62	11.89	0.00	11.89	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00
648	2.000	21.70	0.0	0.0	0.0	5.60	11.93	0.00	11.93	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00
649	1.800	21.70	0.0	0.0	0.0	5.59	11.97	0.00	11.97	0.00	1.69	0.28	0.00	1.97	0.00	50.0	0.0	0.	0.00

650	1.600	21.70	0.0	0.0	0.0	5.58	12.01	0.00	12.01	0.00	1.70	0.28	0.00	1.98	0.00	50.0	0.0	0.	0.00
651	1.400	21.70	0.0	0.0	0.0	5.56	12.04	0.00	12.04	0.00	1.70	0.28	0.00	1.98	0.00	50.0	0.0	0.	0.00
652	1.200	21.70	0.0	0.0	0.0	5.55	12.08	0.00	12.08	0.00	1.70	0.28	0.00	1.98	0.00	50.0	0.0	0.	0.00
653	1.000	21.70	0.0	0.0	0.0	5.54	12.12	0.00	12.12	0.00	1.70	0.28	0.00	1.98	0.00	50.0	0.0	0.	0.00
654	0.800	21.70	0.0	0.0	0.0	5.52	12.16	0.00	12.16	0.00	1.70	0.28	0.00	1.98	0.00	50.0	0.0	0.	0.00
655	0.600	21.70	0.0	0.0	0.0	5.51	12.20	0.00	12.20	0.00	1.70	0.28	0.00	1.99	0.00	50.0	0.0	0.	0.00
656	0.400	21.70	0.0	0.0	0.0	5.49	12.23	0.00	12.23	0.00	1.70	0.28	0.00	1.99	0.00	50.0	0.0	0.	0.00
657	0.200	21.70	0.0	0.0	0.0	5.48	12.27	0.00	12.27	0.00	1.71	0.28	0.00	1.99	0.00	50.0	0.0	0.	0.00
658	0.000	21.70	0.0	0.0	0.0	5.47	12.30	0.00	12.30	0.00	1.71	0.28	0.00	1.99	0.00	50.0	0.0	0.	0.00

SPECIAL REPORT: Praire
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	*	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
549	5.800	21.10	0.0	0.0	0.0	7.21	10.54	0.00	10.54	0.00	1.66	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
550	5.600	21.10	0.0	0.0	0.0	7.28	12.35	0.00	12.35	0.00	1.66	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
551	5.400	21.10	0.0	0.0	0.0	7.20	13.53	0.00	13.53	0.00	1.66	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
552	5.200	21.10	0.0	0.0	0.0	7.12	14.30	0.00	14.30	0.00	1.66	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
553	5.000	21.10	0.0	0.0	0.0	7.07	14.80	0.00	14.80	0.00	1.66	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
554	4.800	21.10	0.0	0.0	0.0	7.04	15.12	0.00	15.12	0.00	1.67	0.29	0.00	1.95	0.00	75.0	0.0	0.	0.00		
555	4.600	21.10	0.0	0.0	0.0	7.02	15.33	0.00	15.33	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
556	4.400	21.10	0.0	0.0	0.0	7.00	15.47	0.00	15.47	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
557	4.200	21.10	0.0	0.0	0.0	6.99	15.56	0.00	15.56	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
558	4.000	21.10	0.0	0.0	0.0	6.99	15.62	0.00	15.62	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
559	3.800	21.10	0.0	0.0	0.0	6.98	15.65	0.00	15.65	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
560	3.600	21.10	0.0	0.0	0.0	6.98	15.68	0.00	15.68	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
561	3.400	21.10	0.0	0.0	0.0	6.98	15.69	0.00	15.69	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
562	3.200	21.10	0.0	0.0	0.0	6.98	15.70	0.00	15.70	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
563	3.000	21.10	0.0	0.0	0.0	6.98	15.71	0.00	15.71	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
564	2.800	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
565	2.600	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
566	2.400	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
567	2.200	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
568	2.000	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
569	1.800	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
570	1.600	21.10	0.0	0.0	0.0	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.0	0.0	0.	0.00		
571	1.400	21.18	0.0	0.0	0.0	7.13	16.25	0.00	16.25	0.00	1.67	0.29	0.00	1.97	0.00	70.9	0.0	0.	0.00		
572	1.200	21.25	0.0	0.0	0.0	7.19	16.75	0.00	16.75	0.00	1.68	0.29	0.00	1.97	0.00	66.8	0.0	0.	0.00		
573	1.000	21.33	0.0	0.0	0.0	7.18	17.23	0.00	17.23	0.00	1.68	0.29	0.00	1.98	0.00	62.6	0.0	0.	0.00		
574	0.800	21.40	0.0	0.0	0.0	7.09	17.69	0.00	17.69	0.00	1.69	0.29	0.00	1.98	0.00	58.5	0.0	0.	0.00		
575	0.600	21.48	0.0	0.0	0.0	6.94	18.12	0.00	18.12	0.00	1.69	0.29	0.00	1.98	0.00	54.4	0.0	0.	0.00		
576	0.400	21.55	0.0	0.0	0.0	6.74	18.54	0.00	18.54	0.00	1.70	0.29	0.00	1.99	0.00	50.2	0.0	0.	0.00		
577	0.200	21.62	0.0	0.0	0.0	6.50	18.93	0.00	18.93	0.00	1.70	0.29	0.00	1.99	0.00	46.1	0.0	0.	0.00		
578	0.000	21.70	0.0	0.0	0.0	6.21	19.31	0.00	19.31	0.00	1.71	0.29	0.00	2.00	0.00	42.0	0.0	0.	0.00		

SPECIAL REPORT: Black Lake Bayou
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 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 SETT	NCM
1	125.400	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
2	125.200	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
3	125.000	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
4	124.800	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
5	124.600	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
6	124.400	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
7	124.200	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
8	124.000	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
9	123.800	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
10	123.600	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
11	123.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
12	123.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
13	123.000	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
14	122.800	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
15	122.600	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
16	122.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
17	122.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
18	122.000	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
19	121.800	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
20	121.600	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
21	121.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
22	121.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
23	121.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
24	120.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
25	120.600	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
26	120.400	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
27	120.200	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
28	120.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
29	119.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
30	119.600	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
31	119.400	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
32	119.200	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
33	119.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
34	118.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
35	118.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
36	118.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
37	118.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
38	118.000	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
39	117.800	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
40	117.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
41	117.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
42	117.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
43	117.000	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
44	116.800	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
45	116.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	
46	116.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	

47	116.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
48	116.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
49	115.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
50	115.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
51	115.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
52	115.200	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
53	115.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
54	114.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
55	114.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
56	114.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
57	114.200	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
58	114.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
59	113.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
60	113.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
61	113.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
62	113.200	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
63	113.000	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
64	112.800	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
65	112.600	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
66	112.400	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
67	112.200	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
68	112.000	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
69	111.800	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
70	111.600	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
71	111.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
72	111.200	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
73	111.000	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
74	110.800	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
75	110.600	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
76	110.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
77	110.200	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
78	110.000	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
79	109.800	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
80	109.600	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
81	109.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
82	109.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
83	109.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
84	108.800	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
85	108.600	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
86	108.400	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
87	108.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
88	108.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
89	107.800	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
90	107.600	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
91	107.400	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
92	107.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
93	107.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
94	106.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
95	106.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
96	106.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
97	106.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

98	106.000	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
99	105.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
100	105.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
101	105.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
102	105.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
103	105.000	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
104	104.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
105	104.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
106	104.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
107	104.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
108	104.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
109	103.800	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
110	103.600	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
111	103.400	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
112	103.200	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
113	103.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
114	102.800	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
115	102.600	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
116	102.400	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
117	102.200	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
118	102.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
119	101.800	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
120	101.600	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
121	101.400	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
122	101.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
123	101.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
124	100.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
125	100.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
126	100.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
127	100.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
128	100.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
129	99.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
130	99.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
131	99.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
132	99.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
133	99.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
134	98.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
135	98.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
136	98.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
137	98.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
138	98.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
139	97.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
140	97.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
141	97.400	9.07	1.00	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
142	97.200	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
143	97.000	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
144	96.800	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
145	96.600	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
146	96.400	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
147	96.200	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
148	96.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

149	95.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
150	95.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
151	95.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
152	95.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
153	95.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
154	94.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
155	94.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
156	94.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
157	94.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
158	94.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
159	93.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
160	93.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
161	93.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
162	93.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
163	93.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
164	92.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
165	92.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
166	92.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
167	92.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
168	92.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
169	91.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
170	91.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
171	91.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
172	91.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
173	91.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
174	90.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
175	90.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
176	90.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
177	90.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
178	90.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
179	89.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
180	89.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
181	89.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
182	89.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
183	89.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
184	88.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
185	88.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
186	88.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
187	88.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
188	88.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
189	87.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
190	87.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
191	87.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
192	87.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
193	87.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
194	86.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
195	86.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
196	86.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
197	86.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
198	86.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
199	85.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

200	85.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
201	85.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
202	85.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
203	85.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
204	84.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
205	84.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
206	84.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
207	84.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
208	84.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
209	83.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
210	83.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
211	83.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
212	83.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
213	83.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
214	82.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
215	82.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
216	82.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
217	82.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
218	82.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
219	81.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
220	81.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
221	81.400	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
222	81.200	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
223	81.000	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
224	80.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
225	80.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
226	80.400	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
227	80.200	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
228	80.000	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
229	79.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
230	79.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
231	79.400	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
232	79.200	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
233	79.000	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
234	78.800	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
235	78.601	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
236	78.401	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
237	78.201	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
238	78.001	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
239	77.801	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
240	77.601	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
241	77.401	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
242	77.200	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
243	77.000	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
244	76.800	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
245	76.600	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
246	76.400	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
247	76.200	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
248	76.000	9.06	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
249	75.800	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
250	75.600	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

251	75.400	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
252	75.200	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
253	75.000	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
254	74.800	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
255	74.600	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
256	74.400	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
257	74.200	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
258	74.000	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
259	73.800	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
260	73.600	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
261	73.400	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
262	73.200	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
263	73.000	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
264	72.800	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
265	72.600	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
266	72.400	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
267	72.200	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
268	72.000	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
269	71.800	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
270	71.600	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
271	71.400	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
272	71.200	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
273	71.000	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
274	70.800	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
275	70.600	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
276	70.400	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
277	70.200	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
278	70.000	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
279	69.800	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
280	69.600	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
281	69.400	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
282	69.200	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
283	69.000	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
284	68.800	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
285	68.600	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
286	68.400	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
287	68.200	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
288	68.000	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
289	67.800	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
290	67.600	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
291	67.400	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
292	67.200	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
293	67.000	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
294	66.800	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
295	66.600	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
296	66.400	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
297	66.200	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
298	66.000	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
299	65.800	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
300	65.600	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
301	65.400	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00

302	65.200	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
303	65.000	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
304	64.800	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
305	64.600	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
306	64.400	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
307	64.200	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
308	64.000	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
309	63.800	8.98	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
310	63.600	8.98	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
311	63.400	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
312	63.200	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
313	63.000	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
314	62.800	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
315	62.600	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
316	62.400	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
317	62.200	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
318	62.000	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
319	61.800	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
320	61.600	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
321	61.400	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
322	61.200	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
323	61.000	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
324	60.800	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
325	60.600	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
326	60.400	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
327	60.200	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
328	60.000	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
329	59.800	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
330	59.600	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
331	59.400	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
332	59.200	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
333	59.000	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
334	58.800	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
335	58.600	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
336	58.400	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
337	58.200	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
338	58.000	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
339	57.800	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
340	57.600	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
341	57.400	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
342	57.200	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
343	57.000	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
344	56.800	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
345	56.600	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
346	56.400	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
347	56.200	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
348	56.000	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
349	55.800	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
350	55.600	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
351	55.400	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
352	55.200	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00

353	55.000	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
354	54.800	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
355	54.600	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
356	54.400	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
357	54.200	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
358	54.000	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
359	53.800	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
360	53.600	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
361	53.400	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
362	53.200	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
363	53.000	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
364	52.800	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
365	52.600	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
366	52.400	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
367	52.200	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
368	52.000	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
369	51.800	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
370	51.600	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
371	51.400	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
372	51.200	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
373	51.000	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
374	50.800	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
375	50.600	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
376	50.400	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
377	50.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
378	50.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
379	49.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
380	49.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
381	49.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
382	49.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
383	49.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
384	48.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
385	48.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
386	48.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
387	48.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
388	48.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
389	47.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
390	47.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
391	47.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
392	47.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
393	47.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
394	46.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
395	46.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
396	46.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
397	46.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
398	46.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
399	45.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
400	45.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
401	45.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
402	45.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
403	45.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00

404	44.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
405	44.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
406	44.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
407	44.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
408	44.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
409	43.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
410	43.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
411	43.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
412	43.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
413	43.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
414	42.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
415	42.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
416	42.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
417	42.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
418	42.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
419	41.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
420	41.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
421	41.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
422	41.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
423	41.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
424	40.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
425	40.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
426	40.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
427	40.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
428	40.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
429	39.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
430	39.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
431	39.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
432	39.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
433	39.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
434	38.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
435	38.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
436	38.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
437	38.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
438	38.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
439	37.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
440	37.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
441	37.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
442	37.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
443	37.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
444	36.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
445	36.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
446	36.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
447	36.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
448	36.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
449	35.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
450	35.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
451	35.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
452	35.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
453	35.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
454	34.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00

455	34.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
456	34.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
457	34.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
458	34.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
459	33.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
460	33.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
461	33.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
462	33.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
463	33.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
464	32.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
465	32.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
466	32.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
467	32.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
468	32.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
469	31.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
470	31.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
471	31.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
472	31.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
473	31.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
474	30.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
475	30.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
476	30.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
477	30.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
478	30.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
479	29.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
480	29.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
481	29.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
482	29.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
483	29.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
484	28.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
485	28.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
486	28.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
487	28.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
488	28.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
489	27.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
490	27.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
491	27.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
492	27.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
493	27.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
494	26.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
495	26.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
496	26.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
497	26.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
498	26.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
499	25.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
500	25.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
501	25.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
502	25.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
503	25.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
504	24.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
505	24.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00

506	24.400	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.10	3.10	0.02	0.00	0.11	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
507	24.200	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
508	24.000	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
509	23.800	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
510	23.600	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.02	0.00	0.11	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
511	23.400	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.02	0.00	0.11	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
512	23.200	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
513	23.000	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
514	22.800	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
515	22.600	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
516	22.400	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
517	22.200	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
518	22.000	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.02	0.00	0.11	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
519	21.800	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.02	0.00	0.12	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
520	21.600	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.02	0.00	0.12	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
521	21.400	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.12	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
522	21.200	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.12	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
523	21.000	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
524	20.800	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
525	20.600	8.83	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
526	20.400	8.83	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
527	20.200	8.83	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
528	20.000	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
529	19.800	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
530	19.600	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
531	19.400	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
532	19.200	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.12	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
533	19.000	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.12	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
534	18.800	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
535	18.600	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
536	18.400	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
537	18.200	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
538	18.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
539	17.800	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
540	17.600	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
541	17.400	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
542	17.200	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
543	17.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
544	16.800	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
545	16.600	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
546	16.400	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
547	16.200	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
548	16.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
579	15.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
580	15.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
581	15.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
582	15.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
583	15.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
584	14.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
585	14.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
586	14.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00

587	14.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
588	14.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
589	13.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
590	13.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
591	13.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
592	13.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
593	13.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
594	12.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
595	12.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
596	12.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
597	12.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
598	12.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
599	11.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
600	11.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
601	11.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
602	11.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
603	11.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
604	10.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
605	10.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
606	10.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
607	10.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
608	10.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
609	9.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
610	9.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
611	9.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
612	9.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
613	9.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
614	8.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
615	8.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
616	8.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
617	8.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
618	8.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
619	7.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
620	7.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
621	7.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
622	7.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
623	7.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
624	6.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
625	6.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
626	6.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
627	6.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
628	6.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
629	5.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
630	5.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
631	5.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
632	5.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
633	5.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
634	4.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
635	4.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
636	4.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
637	4.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00

638	4.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
639	3.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
640	3.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
641	3.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
642	3.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
643	3.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
644	2.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
645	2.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
646	2.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
647	2.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
648	2.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
649	1.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
650	1.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
651	1.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
652	1.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
653	1.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
654	0.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
655	0.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
656	0.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
657	0.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
658	0.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00

SPECIAL REPORT: Praire
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 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 1/da	ORG-N 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
549	5.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
550	5.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
551	5.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
552	5.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
553	5.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
554	4.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
555	4.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
556	4.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
557	4.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
558	4.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
559	3.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
560	3.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
561	3.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
562	3.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
563	3.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
564	2.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
565	2.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
566	2.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
567	2.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
568	2.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
569	1.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00

570	1.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
571	1.400	8.88	0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	0.02	0.00	0.12	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
572	1.200	8.87	0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.83	1.83	0.02	0.00	0.12	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
573	1.000	8.86	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.84	1.84	0.02	0.00	0.12	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
574	0.800	8.85	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.12	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
575	0.600	8.83	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.86	1.86	0.02	0.00	0.12	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
576	0.400	8.82	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.86	1.86	0.02	0.00	0.12	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
577	0.200	8.81	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.87	1.87	0.02	0.00	0.12	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
578	0.000	8.79	0.27	0.09	0.00	0.00	0.00	0.00	0.00	1.88	1.88	0.02	0.00	0.12	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00

SPECIAL REPORT: Black Lake Bayou
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN m/s	MEAN VELO
1	125.60	125.40	0.4710	0.034	1.35	10.1	2746.	2028.2	13.7	0.	0.000	0.000	0.034	
2	125.40	125.20	0.4730	0.034	1.36	10.1	2753.	2029.2	13.8	0.	0.000	0.000	0.034	
3	125.20	125.00	0.4750	0.034	1.36	10.2	2759.	2030.3	13.8	0.	0.000	0.000	0.034	
4	125.00	124.80	0.4769	0.034	1.36	10.2	2766.	2031.3	13.8	0.	0.000	0.000	0.034	
5	124.80	124.60	0.4789	0.035	1.36	10.2	2772.	2032.3	13.9	0.	0.000	0.000	0.035	
6	124.60	124.40	0.4809	0.035	1.37	10.2	2779.	2033.3	13.9	0.	0.000	0.000	0.035	
7	124.40	124.20	0.4829	0.035	1.37	10.2	2785.	2034.3	13.9	0.	0.000	0.000	0.035	
8	124.20	124.00	0.4849	0.035	1.37	10.2	2792.	2035.3	14.0	0.	0.000	0.000	0.035	
9	124.00	123.80	0.4869	0.035	1.37	10.2	2799.	2036.3	14.0	0.	0.000	0.000	0.035	
10	123.80	123.60	0.4888	0.035	1.38	10.2	2805.	2037.3	14.0	0.	0.000	0.000	0.035	
11	123.60	123.40	0.4908	0.035	1.38	10.2	2811.	2038.3	14.1	0.	0.000	0.000	0.035	
12	123.40	123.20	0.4928	0.035	1.38	10.2	2818.	2039.3	14.1	0.	0.000	0.000	0.035	
13	123.20	123.00	0.4948	0.035	1.38	10.2	2824.	2040.3	14.1	0.	0.000	0.000	0.035	
14	123.00	122.80	0.4968	0.035	1.39	10.2	2831.	2041.2	14.2	0.	0.000	0.000	0.035	
15	122.80	122.60	0.4988	0.035	1.39	10.2	2837.	2042.2	14.2	0.	0.000	0.000	0.035	
16	122.60	122.40	0.5007	0.035	1.39	10.2	2844.	2043.2	14.2	0.	0.000	0.000	0.035	
17	122.40	122.20	0.5027	0.035	1.39	10.2	2850.	2044.2	14.3	0.	0.000	0.000	0.035	
18	122.20	122.00	0.5047	0.035	1.40	10.2	2857.	2045.1	14.3	0.	0.000	0.000	0.035	
19	122.00	121.80	0.5067	0.035	1.40	10.2	2863.	2046.1	14.3	0.	0.000	0.000	0.035	
20	121.80	121.60	0.5087	0.035	1.40	10.2	2869.	2047.0	14.3	0.	0.000	0.000	0.035	
21	121.60	121.40	0.5107	0.036	1.40	10.2	2876.	2048.0	14.4	0.	0.000	0.000	0.036	
22	121.40	121.20	0.5127	0.036	1.41	10.2	2882.	2049.0	14.4	0.	0.000	0.000	0.036	
23	121.20	121.00	0.5146	0.036	1.41	10.2	2888.	2049.9	14.4	0.	0.000	0.000	0.036	
24	121.00	120.80	0.5166	0.036	1.41	10.3	2895.	2050.8	14.5	0.	0.000	0.000	0.036	
25	120.80	120.60	0.5186	0.036	1.41	10.3	2901.	2051.8	14.5	0.	0.000	0.000	0.036	
26	120.60	120.40	0.5206	0.036	1.42	10.3	2907.	2052.7	14.5	0.	0.000	0.000	0.036	
27	120.40	120.20	0.5226	0.036	1.42	10.3	2914.	2053.7	14.6	0.	0.000	0.000	0.036	
28	120.20	120.00	0.5246	0.036	1.42	10.3	2920.	2054.6	14.6	0.	0.000	0.000	0.036	
29	120.00	119.80	0.5265	0.036	1.42	10.3	2926.	2055.5	14.6	0.	0.000	0.000	0.036	
30	119.80	119.60	0.5285	0.036	1.43	10.3	2933.	2056.5	14.7	0.	0.000	0.000	0.036	
31	119.60	119.40	0.5305	0.036	1.43	10.3	2939.	2057.4	14.7	0.	0.000	0.000	0.036	
32	119.40	119.20	0.5325	0.036	1.43	10.3	2945.	2058.3	14.7	0.	0.000	0.000	0.036	
33	119.20	119.00	0.5345	0.036	1.43	10.3	2951.	2059.2	14.8	0.	0.000	0.000	0.036	

34	119.00	118.80	0.5365	0.036	1.44	10.3	2958.	2060.1	14.8	0.	0.000	0.000	0.036
35	118.80	118.60	0.5385	0.036	1.44	10.3	2964.	2061.1	14.8	0.	0.000	0.000	0.036
36	118.60	118.40	0.5404	0.036	1.44	10.3	2970.	2062.0	14.9	0.	0.000	0.000	0.036
37	118.40	118.20	0.5424	0.036	1.44	10.3	2976.	2062.9	14.9	0.	0.000	0.000	0.036
38	118.20	118.00	0.5444	0.037	1.45	10.3	2983.	2063.8	14.9	0.	0.000	0.000	0.037
39	118.00	117.80	0.5464	0.037	1.45	10.3	2989.	2064.7	14.9	0.	0.000	0.000	0.037
40	117.80	117.60	0.5484	0.037	1.45	10.3	2995.	2065.6	15.0	0.	0.000	0.000	0.037
41	117.60	117.40	0.5504	0.037	1.45	10.3	3001.	2066.5	15.0	0.	0.000	0.000	0.037
42	117.40	117.20	0.5523	0.037	1.45	10.3	3007.	2067.4	15.0	0.	0.000	0.000	0.037
43	117.20	117.00	0.5543	0.037	1.46	10.3	3013.	2068.3	15.1	0.	0.000	0.000	0.037
44	117.00	116.80	0.5563	0.037	1.46	10.3	3020.	2069.1	15.1	0.	0.000	0.000	0.037
45	116.80	116.60	0.5583	0.037	1.46	10.4	3026.	2070.0	15.1	0.	0.000	0.000	0.037
46	116.60	116.40	0.5603	0.037	1.46	10.4	3032.	2070.9	15.2	0.	0.000	0.000	0.037
47	116.40	116.20	0.5623	0.037	1.47	10.4	3038.	2071.8	15.2	0.	0.000	0.000	0.037
48	116.20	116.00	0.5642	0.037	1.47	10.4	3044.	2072.7	15.2	0.	0.000	0.000	0.037
49	116.00	115.80	0.5662	0.037	1.47	10.4	3050.	2073.5	15.3	0.	0.000	0.000	0.037
50	115.80	115.60	0.5682	0.037	1.47	10.4	3056.	2074.4	15.3	0.	0.000	0.000	0.037
51	115.60	115.40	0.5702	0.037	1.48	10.4	3062.	2075.3	15.3	0.	0.000	0.000	0.037
52	115.40	115.20	0.5722	0.037	1.48	10.4	3068.	2076.1	15.3	0.	0.000	0.000	0.037
53	115.20	115.00	0.5742	0.037	1.48	10.4	3074.	2077.0	15.4	0.	0.000	0.000	0.037
54	115.00	114.80	0.5762	0.037	1.48	10.4	3080.	2077.9	15.4	0.	0.000	0.000	0.037
55	114.80	114.60	0.5781	0.037	1.48	10.4	3086.	2078.7	15.4	0.	0.000	0.000	0.037
56	114.60	114.40	0.5801	0.038	1.49	10.4	3093.	2079.6	15.5	0.	0.000	0.000	0.038
57	114.40	114.20	0.5821	0.038	1.49	10.4	3099.	2080.4	15.5	0.	0.000	0.000	0.038
58	114.20	114.00	0.5841	0.038	1.49	10.4	3105.	2081.3	15.5	0.	0.000	0.000	0.038
59	114.00	113.80	0.5861	0.038	1.49	10.4	3111.	2082.1	15.6	0.	0.000	0.000	0.038
60	113.80	113.60	0.5881	0.038	1.50	10.4	3117.	2083.0	15.6	0.	0.000	0.000	0.038
61	113.60	113.40	0.5900	0.038	1.50	10.4	3123.	2083.8	15.6	0.	0.000	0.000	0.038
62	113.40	113.20	0.5920	0.038	1.50	10.4	3129.	2084.7	15.6	0.	0.000	0.000	0.038
63	113.20	113.00	0.5940	0.038	1.50	10.4	3135.	2085.5	15.7	0.	0.000	0.000	0.038
64	113.00	112.80	0.5960	0.038	1.51	10.4	3140.	2086.3	15.7	0.	0.000	0.000	0.038
65	112.80	112.60	0.5980	0.038	1.51	10.4	3146.	2087.2	15.7	0.	0.000	0.000	0.038
66	112.60	112.40	0.6000	0.038	1.51	10.4	3152.	2088.0	15.8	0.	0.000	0.000	0.038
67	112.40	112.20	0.6019	0.038	1.51	10.4	3158.	2088.8	15.8	0.	0.000	0.000	0.038
68	112.20	112.00	0.6039	0.038	1.51	10.4	3164.	2089.6	15.8	0.	0.000	0.000	0.038
69	112.00	111.80	0.6059	0.038	1.52	10.5	3170.	2090.5	15.9	0.	0.000	0.000	0.038
70	111.80	111.60	0.6079	0.038	1.52	10.5	3176.	2091.3	15.9	0.	0.000	0.000	0.038
71	111.60	111.40	0.6099	0.045	1.21	11.2	2711.	2242.9	13.6	0.	0.000	0.000	0.045
72	111.40	111.20	0.6119	0.045	1.21	11.2	2716.	2243.8	13.6	0.	0.000	0.000	0.045
73	111.20	111.00	0.6139	0.045	1.21	11.2	2721.	2244.6	13.6	0.	0.000	0.000	0.045
74	111.00	110.80	0.6158	0.045	1.21	11.2	2726.	2245.5	13.6	0.	0.000	0.000	0.045
75	110.80	110.60	0.6178	0.045	1.22	11.2	2731.	2246.4	13.7	0.	0.000	0.000	0.045
76	110.60	110.40	0.6198	0.045	1.22	11.2	2736.	2247.2	13.7	0.	0.000	0.000	0.045
77	110.40	110.20	0.6218	0.045	1.22	11.2	2741.	2248.1	13.7	0.	0.000	0.000	0.045
78	110.20	110.00	0.6238	0.045	1.22	11.2	2746.	2249.0	13.7	0.	0.000	0.000	0.045
79	110.00	109.80	0.6258	0.045	1.22	11.2	2751.	2249.8	13.8	0.	0.000	0.000	0.045
80	109.80	109.60	0.6277	0.046	1.22	11.3	2756.	2250.7	13.8	0.	0.000	0.000	0.046
81	109.60	109.40	0.6297	0.046	1.23	11.3	2761.	2251.5	13.8	0.	0.000	0.000	0.046
82	109.40	109.20	0.6317	0.046	1.23	11.3	2766.	2252.4	13.8	0.	0.000	0.000	0.046
83	109.20	109.00	0.6337	0.046	1.23	11.3	2771.	2253.2	13.9	0.	0.000	0.000	0.046
84	109.00	108.80	0.6357	0.046	1.23	11.3	2776.	2254.1	13.9	0.	0.000	0.000	0.046

85	108.80	108.60	0.6377	0.046	1.23	11.3	2781.	2254.9	13.9	0.	0.000	0.000	0.046
86	108.60	108.40	0.6396	0.046	1.23	11.3	2786.	2255.7	13.9	0.	0.000	0.000	0.046
87	108.40	108.20	0.6416	0.046	1.24	11.3	2791.	2256.6	14.0	0.	0.000	0.000	0.046
88	108.20	108.00	0.6436	0.046	1.24	11.3	2796.	2257.4	14.0	0.	0.000	0.000	0.046
89	108.00	107.80	0.6456	0.046	1.24	11.3	2800.	2258.3	14.0	0.	0.000	0.000	0.046
90	107.80	107.60	0.6476	0.046	1.24	11.3	2805.	2259.1	14.0	0.	0.000	0.000	0.046
91	107.60	107.40	0.6496	0.046	1.24	11.3	2810.	2259.9	14.1	0.	0.000	0.000	0.046
92	107.40	107.20	0.6516	0.046	1.25	11.3	2815.	2260.7	14.1	0.	0.000	0.000	0.046
93	107.20	107.00	0.6535	0.046	1.25	11.3	2820.	2261.6	14.1	0.	0.000	0.000	0.046
94	107.00	106.80	0.6555	0.046	1.25	11.3	2825.	2262.4	14.1	0.	0.000	0.000	0.046
95	106.80	106.60	0.6575	0.046	1.25	11.3	2830.	2263.2	14.1	0.	0.000	0.000	0.046
96	106.60	106.40	0.6595	0.047	1.25	11.3	2835.	2264.0	14.2	0.	0.000	0.000	0.047
97	106.40	106.20	0.6615	0.047	1.25	11.3	2840.	2264.8	14.2	0.	0.000	0.000	0.047
98	106.20	106.00	0.6635	0.047	1.26	11.3	2844.	2265.7	14.2	0.	0.000	0.000	0.047
99	106.00	105.80	0.6654	0.047	1.26	11.3	2849.	2266.5	14.2	0.	0.000	0.000	0.047
100	105.80	105.60	0.6674	0.047	1.26	11.3	2854.	2267.3	14.3	0.	0.000	0.000	0.047
101	105.60	105.40	0.6694	0.047	1.26	11.3	2859.	2268.1	14.3	0.	0.000	0.000	0.047
102	105.40	105.20	0.6714	0.047	1.26	11.3	2864.	2268.9	14.3	0.	0.000	0.000	0.047
103	105.20	105.00	0.6734	0.047	1.26	11.3	2869.	2269.7	14.3	0.	0.000	0.000	0.047
104	105.00	104.80	0.6754	0.047	1.27	11.4	2873.	2270.5	14.4	0.	0.000	0.000	0.047
105	104.80	104.60	0.6773	0.047	1.27	11.4	2878.	2271.3	14.4	0.	0.000	0.000	0.047
106	104.60	104.40	0.6793	0.047	1.27	11.4	2883.	2272.1	14.4	0.	0.000	0.000	0.047
107	104.40	104.20	0.6813	0.047	1.27	11.4	2888.	2272.9	14.4	0.	0.000	0.000	0.047
108	104.20	104.00	0.6833	0.047	1.27	11.4	2893.	2273.7	14.5	0.	0.000	0.000	0.047
109	104.00	103.80	0.6853	0.047	1.27	11.4	2897.	2274.5	14.5	0.	0.000	0.000	0.047
110	103.80	103.60	0.6873	0.047	1.28	11.4	2902.	2275.3	14.5	0.	0.000	0.000	0.047
111	103.60	103.40	0.6893	0.047	1.28	11.4	2907.	2276.1	14.5	0.	0.000	0.000	0.047
112	103.40	103.20	0.6912	0.047	1.28	11.4	2912.	2276.8	14.6	0.	0.000	0.000	0.047
113	103.20	103.00	0.6932	0.048	1.28	11.4	2916.	2277.6	14.6	0.	0.000	0.000	0.048
114	103.00	102.80	0.6952	0.048	1.28	11.4	2921.	2278.4	14.6	0.	0.000	0.000	0.048
115	102.80	102.60	0.6972	0.048	1.28	11.4	2926.	2279.2	14.6	0.	0.000	0.000	0.048
116	102.60	102.40	0.6992	0.048	1.29	11.4	2931.	2280.0	14.7	0.	0.000	0.000	0.048
117	102.40	102.20	0.7012	0.048	1.29	11.4	2935.	2280.7	14.7	0.	0.000	0.000	0.048
118	102.20	102.00	0.7031	0.048	1.29	11.4	2940.	2281.5	14.7	0.	0.000	0.000	0.048
119	102.00	101.80	0.8021	0.051	1.37	11.6	3169.	2317.9	15.8	0.	0.000	0.000	0.051
120	101.80	101.60	0.8041	0.051	1.37	11.6	3174.	2318.5	15.9	0.	0.000	0.000	0.051
121	101.60	101.40	0.8061	0.051	1.37	11.6	3178.	2319.2	15.9	0.	0.000	0.000	0.051
122	101.40	101.20	0.8081	0.051	1.37	11.6	3183.	2319.9	15.9	0.	0.000	0.000	0.051
123	101.20	101.00	0.8101	0.051	1.37	11.6	3187.	2320.6	15.9	0.	0.000	0.000	0.051
124	101.00	100.80	0.8120	0.051	1.37	11.6	3192.	2321.3	16.0	0.	0.000	0.000	0.051
125	100.80	100.60	0.8140	0.051	1.38	11.6	3196.	2322.0	16.0	0.	0.000	0.000	0.051
126	100.60	100.40	0.8160	0.051	1.38	11.6	3201.	2322.6	16.0	0.	0.000	0.000	0.051
127	100.40	100.20	0.8180	0.051	1.38	11.6	3205.	2323.3	16.0	0.	0.000	0.000	0.051
128	100.20	100.00	0.8200	0.051	1.38	11.6	3209.	2324.0	16.0	0.	0.000	0.000	0.051
129	100.00	99.80	0.8220	0.051	1.38	11.6	3214.	2324.7	16.1	0.	0.000	0.000	0.051
130	99.80	99.60	0.8240	0.051	1.38	11.6	3218.	2325.3	16.1	0.	0.000	0.000	0.051
131	99.60	99.40	0.8259	0.051	1.39	11.6	3223.	2326.0	16.1	0.	0.000	0.000	0.051
132	99.40	99.20	0.8279	0.051	1.39	11.6	3227.	2326.7	16.1	0.	0.000	0.000	0.051
133	99.20	99.00	0.8299	0.051	1.39	11.6	3231.	2327.3	16.2	0.	0.000	0.000	0.051
134	99.00	98.80	0.8319	0.051	1.39	11.6	3236.	2328.0	16.2	0.	0.000	0.000	0.051
135	98.80	98.60	0.8339	0.051	1.39	11.6	3240.	2328.7	16.2	0.	0.000	0.000	0.051

136	98.60	98.40	0.8359	0.052	1.39	11.6	3245.	2329.3	16.2	0.	0.000	0.000	0.052
137	98.40	98.20	0.8378	0.052	1.39	11.7	3249.	2330.0	16.2	0.	0.000	0.000	0.052
138	98.20	98.00	0.8398	0.052	1.40	11.7	3253.	2330.7	16.3	0.	0.000	0.000	0.052
139	98.00	97.80	0.8418	0.052	1.40	11.7	3258.	2331.3	16.3	0.	0.000	0.000	0.052
140	97.80	97.60	0.8438	0.052	1.40	11.7	3262.	2332.0	16.3	0.	0.000	0.000	0.052
141	97.60	97.40	0.8458	0.052	1.40	11.7	3267.	2332.6	16.3	0.	0.000	0.000	0.052
142	97.40	97.20	0.9138	0.054	1.45	11.8	3414.	2354.4	17.1	0.	0.000	0.000	0.054
143	97.20	97.00	0.9158	0.054	1.45	11.8	3418.	2355.0	17.1	0.	0.000	0.000	0.054
144	97.00	96.80	0.9177	0.054	1.45	11.8	3422.	2355.6	17.1	0.	0.000	0.000	0.054
145	96.80	96.60	0.9197	0.054	1.45	11.8	3426.	2356.2	17.1	0.	0.000	0.000	0.054
146	96.60	96.40	0.9217	0.054	1.46	11.8	3431.	2356.8	17.2	0.	0.000	0.000	0.054
147	96.40	96.20	0.9237	0.054	1.46	11.8	3435.	2357.4	17.2	0.	0.000	0.000	0.054
148	96.20	96.00	0.9257	0.054	1.46	11.8	3439.	2358.0	17.2	0.	0.000	0.000	0.054
149	96.00	95.80	0.9277	0.054	1.46	11.8	3443.	2358.6	17.2	0.	0.000	0.000	0.054
150	95.80	95.60	0.9296	0.054	1.46	11.8	3447.	2359.3	17.2	0.	0.000	0.000	0.054
151	95.60	95.40	0.9316	0.054	1.46	11.8	3452.	2359.9	17.3	0.	0.000	0.000	0.054
152	95.40	95.20	0.9336	0.054	1.46	11.8	3456.	2360.5	17.3	0.	0.000	0.000	0.054
153	95.20	95.00	0.9356	0.054	1.47	11.8	3460.	2361.1	17.3	0.	0.000	0.000	0.054
154	95.00	94.80	0.9376	0.054	1.47	11.8	3464.	2361.7	17.3	0.	0.000	0.000	0.054
155	94.80	94.60	0.9396	0.054	1.47	11.8	3468.	2362.3	17.3	0.	0.000	0.000	0.054
156	94.60	94.40	0.9415	0.054	1.47	11.8	3473.	2362.9	17.4	0.	0.000	0.000	0.054
157	94.40	94.20	0.9435	0.054	1.47	11.8	3477.	2363.5	17.4	0.	0.000	0.000	0.054
158	94.20	94.00	0.9455	0.054	1.47	11.8	3481.	2364.1	17.4	0.	0.000	0.000	0.054
159	94.00	93.80	0.9475	0.054	1.47	11.8	3485.	2364.6	17.4	0.	0.000	0.000	0.054
160	93.80	93.60	0.9495	0.054	1.48	11.8	3489.	2365.2	17.4	0.	0.000	0.000	0.054
161	93.60	93.40	0.9515	0.054	1.48	11.8	3493.	2365.8	17.5	0.	0.000	0.000	0.054
162	93.40	93.20	0.9535	0.055	1.48	11.8	3497.	2366.4	17.5	0.	0.000	0.000	0.055
163	93.20	93.00	0.9554	0.055	1.48	11.8	3502.	2367.0	17.5	0.	0.000	0.000	0.055
164	93.00	92.80	0.9574	0.055	1.48	11.8	3506.	2367.6	17.5	0.	0.000	0.000	0.055
165	92.80	92.60	0.9594	0.055	1.48	11.8	3510.	2368.2	17.5	0.	0.000	0.000	0.055
166	92.60	92.40	0.9614	0.055	1.48	11.8	3514.	2368.8	17.6	0.	0.000	0.000	0.055
167	92.40	92.20	0.9634	0.055	1.48	11.8	3518.	2369.4	17.6	0.	0.000	0.000	0.055
168	92.20	92.00	0.9654	0.055	1.49	11.8	3522.	2370.0	17.6	0.	0.000	0.000	0.055
169	92.00	91.80	0.9673	0.055	1.49	11.9	3526.	2370.5	17.6	0.	0.000	0.000	0.055
170	91.80	91.60	0.9693	0.055	1.49	11.9	3531.	2371.1	17.7	0.	0.000	0.000	0.055
171	91.60	91.40	0.9713	0.055	1.49	11.9	3535.	2371.7	17.7	0.	0.000	0.000	0.055
172	91.40	91.20	0.9733	0.055	1.49	11.9	3539.	2372.3	17.7	0.	0.000	0.000	0.055
173	91.20	91.00	0.9753	0.055	1.49	11.9	3543.	2372.9	17.7	0.	0.000	0.000	0.055
174	91.00	90.80	0.9773	0.055	1.49	11.9	3547.	2373.4	17.7	0.	0.000	0.000	0.055
175	90.80	90.60	0.9792	0.055	1.50	11.9	3551.	2374.0	17.8	0.	0.000	0.000	0.055
176	90.60	90.40	0.9812	0.055	1.50	11.9	3555.	2374.6	17.8	0.	0.000	0.000	0.055
177	90.40	90.20	0.9832	0.055	1.50	11.9	3559.	2375.2	17.8	0.	0.000	0.000	0.055
178	90.20	90.00	0.9852	0.055	1.50	11.9	3563.	2375.7	17.8	0.	0.000	0.000	0.055
179	90.00	89.80	0.9872	0.055	1.50	11.9	3567.	2376.3	17.8	0.	0.000	0.000	0.055
180	89.80	89.60	0.9892	0.055	1.50	11.9	3572.	2376.9	17.9	0.	0.000	0.000	0.055
181	89.60	89.40	0.9912	0.055	1.50	11.9	3576.	2377.5	17.9	0.	0.000	0.000	0.055
182	89.40	89.20	0.9931	0.055	1.51	11.9	3580.	2378.0	17.9	0.	0.000	0.000	0.055
183	89.20	89.00	0.9951	0.056	1.51	11.9	3584.	2378.6	17.9	0.	0.000	0.000	0.056
184	89.00	88.80	0.9971	0.056	1.51	11.9	3588.	2379.2	17.9	0.	0.000	0.000	0.056
185	88.80	88.60	0.9991	0.056	1.51	11.9	3592.	2379.7	18.0	0.	0.000	0.000	0.056
186	88.60	88.40	1.0011	0.056	1.51	11.9	3596.	2380.3	18.0	0.	0.000	0.000	0.056

187	88.40	88.20	1.0031	0.056	1.51	11.9	3600.	2380.9	18.0	0.	0.000	0.000	0.056
188	88.20	88.00	1.0050	0.056	1.51	11.9	3604.	2381.4	18.0	0.	0.000	0.000	0.056
189	88.00	87.80	1.0070	0.056	1.51	11.9	3608.	2382.0	18.0	0.	0.000	0.000	0.056
190	87.80	87.60	1.0090	0.056	1.52	11.9	3612.	2382.6	18.1	0.	0.000	0.000	0.056
191	87.60	87.40	1.0110	0.056	1.52	11.9	3616.	2383.1	18.1	0.	0.000	0.000	0.056
192	87.40	87.20	1.0130	0.056	1.52	11.9	3620.	2383.7	18.1	0.	0.000	0.000	0.056
193	87.20	87.00	1.0150	0.056	1.52	11.9	3624.	2384.2	18.1	0.	0.000	0.000	0.056
194	87.00	86.80	1.0169	0.056	1.52	11.9	3628.	2384.8	18.1	0.	0.000	0.000	0.056
195	86.80	86.60	1.0189	0.056	1.52	11.9	3632.	2385.4	18.2	0.	0.000	0.000	0.056
196	86.60	86.40	1.0209	0.056	1.52	11.9	3636.	2385.9	18.2	0.	0.000	0.000	0.056
197	86.40	86.20	1.0229	0.056	1.53	11.9	3640.	2386.5	18.2	0.	0.000	0.000	0.056
198	86.20	86.00	1.0249	0.056	1.53	11.9	3645.	2387.0	18.2	0.	0.000	0.000	0.056
199	86.00	85.80	1.0269	0.056	1.53	11.9	3649.	2387.6	18.2	0.	0.000	0.000	0.056
200	85.80	85.60	1.0289	0.056	1.53	11.9	3653.	2388.1	18.3	0.	0.000	0.000	0.056
201	85.60	85.40	1.0308	0.056	1.53	11.9	3657.	2388.7	18.3	0.	0.000	0.000	0.056
202	85.40	85.20	1.0328	0.056	1.53	11.9	3661.	2389.2	18.3	0.	0.000	0.000	0.056
203	85.20	85.00	1.0348	0.056	1.53	11.9	3665.	2389.8	18.3	0.	0.000	0.000	0.056
204	85.00	84.80	1.0368	0.057	1.53	12.0	3669.	2390.3	18.3	0.	0.000	0.000	0.057
205	84.80	84.60	1.0388	0.057	1.54	12.0	3673.	2390.9	18.4	0.	0.000	0.000	0.057
206	84.60	84.40	1.0408	0.057	1.54	12.0	3677.	2391.4	18.4	0.	0.000	0.000	0.057
207	84.40	84.20	1.0427	0.057	1.54	12.0	3681.	2392.0	18.4	0.	0.000	0.000	0.057
208	84.20	84.00	1.0447	0.057	1.54	12.0	3685.	2392.5	18.4	0.	0.000	0.000	0.057
209	84.00	83.80	1.0467	0.057	1.54	12.0	3689.	2393.1	18.4	0.	0.000	0.000	0.057
210	83.80	83.60	1.0487	0.057	1.54	12.0	3693.	2393.6	18.5	0.	0.000	0.000	0.057
211	83.60	83.40	1.0507	0.057	1.54	12.0	3697.	2394.2	18.5	0.	0.000	0.000	0.057
212	83.40	83.20	1.0527	0.057	1.55	12.0	3700.	2394.7	18.5	0.	0.000	0.000	0.057
213	83.20	83.00	1.0546	0.057	1.55	12.0	3704.	2395.2	18.5	0.	0.000	0.000	0.057
214	83.00	82.80	1.0566	0.057	1.55	12.0	3708.	2395.8	18.5	0.	0.000	0.000	0.057
215	82.80	82.60	1.0586	0.057	1.55	12.0	3712.	2396.3	18.6	0.	0.000	0.000	0.057
216	82.60	82.40	1.0606	0.057	1.55	12.0	3716.	2396.9	18.6	0.	0.000	0.000	0.057
217	82.40	82.20	1.0626	0.057	1.55	12.0	3720.	2397.4	18.6	0.	0.000	0.000	0.057
218	82.20	82.00	1.0646	0.057	1.55	12.0	3724.	2397.9	18.6	0.	0.000	0.000	0.057
219	82.00	81.80	1.0666	0.057	1.55	12.0	3728.	2398.5	18.6	0.	0.000	0.000	0.057
220	81.80	81.60	1.0685	0.057	1.56	12.0	3732.	2399.0	18.7	0.	0.000	0.000	0.057
221	81.60	81.40	1.0705	0.057	1.56	12.0	3736.	2399.5	18.7	0.	0.000	0.000	0.057
222	81.40	81.20	1.0725	0.057	1.56	12.0	3740.	2400.1	18.7	0.	0.000	0.000	0.057
223	81.20	81.00	1.0745	0.057	1.56	12.0	3744.	2400.6	18.7	0.	0.000	0.000	0.057
224	81.00	80.80	1.0765	0.057	1.56	12.0	3748.	2401.1	18.7	0.	0.000	0.000	0.057
225	80.80	80.60	1.0785	0.057	1.56	12.0	3752.	2401.7	18.8	0.	0.000	0.000	0.057
226	80.60	80.40	1.0804	0.058	1.56	12.0	3756.	2402.2	18.8	0.	0.000	0.000	0.058
227	80.40	80.20	1.0824	0.058	1.56	12.0	3760.	2402.7	18.8	0.	0.000	0.000	0.058
228	80.20	80.00	1.0844	0.058	1.57	12.0	3764.	2403.3	18.8	0.	0.000	0.000	0.058
229	80.00	79.80	1.0864	0.058	1.57	12.0	3768.	2403.8	18.8	0.	0.000	0.000	0.058
230	79.80	79.60	1.0884	0.058	1.57	12.0	3772.	2404.3	18.9	0.	0.000	0.000	0.058
231	79.60	79.40	1.1664	0.059	1.62	12.1	3923.	2424.4	19.6	0.	0.000	0.000	0.059
232	79.40	79.20	1.1683	0.060	1.62	12.1	3927.	2424.9	19.6	0.	0.000	0.000	0.060
233	79.20	79.00	1.1703	0.060	1.62	12.1	3931.	2425.3	19.7	0.	0.000	0.000	0.060
234	79.00	78.80	1.1723	0.060	1.62	12.1	3935.	2425.8	19.7	0.	0.000	0.000	0.060
235	78.80	78.60	1.1743	0.060	1.62	12.1	3938.	2426.3	19.7	0.	0.000	0.000	0.060
236	78.60	78.40	1.1763	0.060	1.62	12.1	3942.	2426.8	19.7	0.	0.000	0.000	0.060
237	78.40	78.20	1.1783	0.060	1.63	12.1	3946.	2427.3	19.7	0.	0.000	0.000	0.060

238	78.20	78.00	1.1803	0.060	1.63	12.1	3950.	2427.8	19.7	0.	0.000	0.000	0.060
239	78.00	77.80	1.1822	0.060	1.63	12.1	3954.	2428.3	19.8	0.	0.000	0.000	0.060
240	77.80	77.60	1.1842	0.060	1.63	12.1	3957.	2428.8	19.8	0.	0.000	0.000	0.060
241	77.60	77.40	1.1862	0.060	1.63	12.1	3961.	2429.3	19.8	0.	0.000	0.000	0.060
242	77.40	77.20	1.1882	0.047	1.79	14.1	5055.	2817.7	25.3	0.	0.000	0.000	0.047
243	77.20	77.00	1.1902	0.047	1.80	14.1	5060.	2818.3	25.3	0.	0.000	0.000	0.047
244	77.00	76.80	1.1922	0.047	1.80	14.1	5064.	2818.8	25.3	0.	0.000	0.000	0.047
245	76.80	76.60	1.1941	0.047	1.80	14.1	5069.	2819.4	25.3	0.	0.000	0.000	0.047
246	76.60	76.40	1.1961	0.047	1.80	14.1	5074.	2820.0	25.4	0.	0.000	0.000	0.047
247	76.40	76.20	1.1981	0.047	1.80	14.1	5079.	2820.5	25.4	0.	0.000	0.000	0.047
248	76.20	76.00	1.2001	0.047	1.80	14.1	5084.	2821.1	25.4	0.	0.000	0.000	0.047
249	76.00	75.80	1.2021	0.047	1.80	14.1	5088.	2821.6	25.4	0.	0.000	0.000	0.047
250	75.80	75.60	1.2041	0.047	1.80	14.1	5093.	2822.2	25.5	0.	0.000	0.000	0.047
251	75.60	75.40	1.2061	0.047	1.81	14.1	5098.	2822.8	25.5	0.	0.000	0.000	0.047
252	75.40	75.20	1.2080	0.047	1.81	14.1	5103.	2823.3	25.5	0.	0.000	0.000	0.047
253	75.20	75.00	1.2100	0.047	1.81	14.1	5108.	2823.9	25.5	0.	0.000	0.000	0.047
254	75.00	74.80	1.2120	0.047	1.81	14.1	5112.	2824.4	25.6	0.	0.000	0.000	0.047
255	74.80	74.60	1.2140	0.047	1.81	14.1	5117.	2825.0	25.6	0.	0.000	0.000	0.047
256	74.60	74.40	1.2160	0.047	1.81	14.1	5122.	2825.5	25.6	0.	0.000	0.000	0.047
257	74.40	74.20	1.2180	0.048	1.81	14.1	5127.	2826.1	25.6	0.	0.000	0.000	0.048
258	74.20	74.00	1.2199	0.048	1.82	14.1	5131.	2826.6	25.7	0.	0.000	0.000	0.048
259	74.00	73.80	1.2219	0.048	1.82	14.1	5136.	2827.2	25.7	0.	0.000	0.000	0.048
260	73.80	73.60	1.2239	0.048	1.82	14.1	5141.	2827.7	25.7	0.	0.000	0.000	0.048
261	73.60	73.40	1.2259	0.048	1.82	14.1	5146.	2828.3	25.7	0.	0.000	0.000	0.048
262	73.40	73.20	1.2279	0.048	1.82	14.1	5150.	2828.8	25.8	0.	0.000	0.000	0.048
263	73.20	73.00	1.2299	0.048	1.82	14.1	5155.	2829.4	25.8	0.	0.000	0.000	0.048
264	73.00	72.80	1.2318	0.048	1.82	14.1	5160.	2829.9	25.8	0.	0.000	0.000	0.048
265	72.80	72.60	1.2338	0.048	1.82	14.2	5165.	2830.5	25.8	0.	0.000	0.000	0.048
266	72.60	72.40	1.2358	0.048	1.83	14.2	5169.	2831.0	25.8	0.	0.000	0.000	0.048
267	72.40	72.20	1.2378	0.048	1.83	14.2	5174.	2831.6	25.9	0.	0.000	0.000	0.048
268	72.20	72.00	1.2398	0.048	1.83	14.2	5179.	2832.1	25.9	0.	0.000	0.000	0.048
269	72.00	71.80	1.2418	0.048	1.83	14.2	5183.	2832.7	25.9	0.	0.000	0.000	0.048
270	71.80	71.60	1.2438	0.048	1.83	14.2	5188.	2833.2	25.9	0.	0.000	0.000	0.048
271	71.60	71.40	1.2457	0.048	1.83	14.2	5193.	2833.7	26.0	0.	0.000	0.000	0.048
272	71.40	71.20	1.2477	0.048	1.83	14.2	5198.	2834.3	26.0	0.	0.000	0.000	0.048
273	71.20	71.00	1.2497	0.048	1.84	14.2	5202.	2834.8	26.0	0.	0.000	0.000	0.048
274	71.00	70.80	1.2517	0.048	1.84	14.2	5207.	2835.4	26.0	0.	0.000	0.000	0.048
275	70.80	70.60	1.2537	0.048	1.84	14.2	5212.	2835.9	26.1	0.	0.000	0.000	0.048
276	70.60	70.40	1.2557	0.048	1.84	14.2	5216.	2836.4	26.1	0.	0.000	0.000	0.048
277	70.40	70.20	1.2576	0.048	1.84	14.2	5221.	2837.0	26.1	0.	0.000	0.000	0.048
278	70.20	70.00	1.2596	0.048	1.84	14.2	5226.	2837.5	26.1	0.	0.000	0.000	0.048
279	70.00	69.80	1.2616	0.048	1.84	14.2	5231.	2838.1	26.2	0.	0.000	0.000	0.048
280	69.80	69.60	1.2636	0.048	1.84	14.2	5235.	2838.6	26.2	0.	0.000	0.000	0.048
281	69.60	69.40	1.2656	0.048	1.85	14.2	5240.	2839.1	26.2	0.	0.000	0.000	0.048
282	69.40	69.20	1.2676	0.048	1.85	14.2	5245.	2839.7	26.2	0.	0.000	0.000	0.048
283	69.20	69.00	1.2696	0.048	1.85	14.2	5249.	2840.2	26.2	0.	0.000	0.000	0.048
284	69.00	68.80	1.2715	0.048	1.85	14.2	5254.	2840.7	26.3	0.	0.000	0.000	0.048
285	68.80	68.60	1.2735	0.048	1.85	14.2	5259.	2841.3	26.3	0.	0.000	0.000	0.048
286	68.60	68.40	1.2755	0.048	1.85	14.2	5263.	2841.8	26.3	0.	0.000	0.000	0.048
287	68.40	68.20	1.2775	0.049	1.85	14.2	5268.	2842.3	26.3	0.	0.000	0.000	0.049
288	68.20	68.00	1.2795	0.049	1.85	14.2	5273.	2842.8	26.4	0.	0.000	0.000	0.049

289	68.00	67.80	1.2815	0.049	1.86	14.2	5277.	2843.4	26.4	0.	0.000	0.000	0.049
290	67.80	67.60	1.2834	0.049	1.86	14.2	5282.	2843.9	26.4	0.	0.000	0.000	0.049
291	67.60	67.40	1.2854	0.049	1.86	14.2	5287.	2844.4	26.4	0.	0.000	0.000	0.049
292	67.40	67.20	1.2874	0.049	1.86	14.2	5291.	2845.0	26.5	0.	0.000	0.000	0.049
293	67.20	67.00	1.2894	0.049	1.86	14.2	5296.	2845.5	26.5	0.	0.000	0.000	0.049
294	67.00	66.80	1.2914	0.049	1.86	14.2	5301.	2846.0	26.5	0.	0.000	0.000	0.049
295	66.80	66.60	1.2934	0.049	1.86	14.2	5305.	2846.5	26.5	0.	0.000	0.000	0.049
296	66.60	66.40	1.2954	0.049	1.87	14.2	5310.	2847.1	26.5	0.	0.000	0.000	0.049
297	66.40	66.20	1.2973	0.049	1.87	14.2	5314.	2847.6	26.6	0.	0.000	0.000	0.049
298	66.20	66.00	1.2993	0.049	1.87	14.2	5319.	2848.1	26.6	0.	0.000	0.000	0.049
299	66.00	65.80	1.3013	0.049	1.87	14.2	5324.	2848.6	26.6	0.	0.000	0.000	0.049
300	65.80	65.60	1.3033	0.049	1.87	14.2	5328.	2849.1	26.6	0.	0.000	0.000	0.049
301	65.60	65.40	1.3053	0.049	1.87	14.2	5333.	2849.7	26.7	0.	0.000	0.000	0.049
302	65.40	65.20	1.3073	0.049	1.87	14.3	5338.	2850.2	26.7	0.	0.000	0.000	0.049
303	65.20	65.00	1.3092	0.049	1.87	14.3	5342.	2850.7	26.7	0.	0.000	0.000	0.049
304	65.00	64.80	1.3112	0.049	1.88	14.3	5347.	2851.2	26.7	0.	0.000	0.000	0.049
305	64.80	64.60	1.3132	0.049	1.88	14.3	5351.	2851.7	26.8	0.	0.000	0.000	0.049
306	64.60	64.40	1.3152	0.049	1.88	14.3	5356.	2852.3	26.8	0.	0.000	0.000	0.049
307	64.40	64.20	1.3172	0.049	1.88	14.3	5361.	2852.8	26.8	0.	0.000	0.000	0.049
308	64.20	64.00	1.3192	0.049	1.88	14.3	5365.	2853.3	26.8	0.	0.000	0.000	0.049
309	64.00	63.80	1.3212	0.049	1.88	14.3	5370.	2853.8	26.8	0.	0.000	0.000	0.049
310	63.80	63.60	1.3231	0.049	1.88	14.3	5374.	2854.3	26.9	0.	0.000	0.000	0.049
311	63.60	63.40	1.3251	0.049	1.88	14.3	5379.	2854.8	26.9	0.	0.000	0.000	0.049
312	63.40	63.20	1.3271	0.049	1.89	14.3	5384.	2855.3	26.9	0.	0.000	0.000	0.049
313	63.20	63.00	1.3291	0.049	1.89	14.3	5388.	2855.9	26.9	0.	0.000	0.000	0.049
314	63.00	62.80	1.3311	0.049	1.89	14.3	5393.	2856.4	27.0	0.	0.000	0.000	0.049
315	62.80	62.60	1.3331	0.049	1.89	14.3	5397.	2856.9	27.0	0.	0.000	0.000	0.049
316	62.60	62.40	1.3350	0.049	1.89	14.3	5402.	2857.4	27.0	0.	0.000	0.000	0.049
317	62.40	62.20	1.3370	0.049	1.89	14.3	5407.	2857.9	27.0	0.	0.000	0.000	0.049
318	62.20	62.00	1.3390	0.049	1.89	14.3	5411.	2858.4	27.1	0.	0.000	0.000	0.049
319	62.00	61.80	1.3410	0.050	1.89	14.3	5416.	2858.9	27.1	0.	0.000	0.000	0.050
320	61.80	61.60	1.3430	0.050	1.90	14.3	5420.	2859.4	27.1	0.	0.000	0.000	0.050
321	61.60	61.40	1.3450	0.050	1.90	14.3	5425.	2859.9	27.1	0.	0.000	0.000	0.050
322	61.40	61.20	1.3469	0.050	1.90	14.3	5429.	2860.4	27.1	0.	0.000	0.000	0.050
323	61.20	61.00	1.3489	0.050	1.90	14.3	5434.	2860.9	27.2	0.	0.000	0.000	0.050
324	61.00	60.80	1.3509	0.050	1.90	14.3	5438.	2861.4	27.2	0.	0.000	0.000	0.050
325	60.80	60.60	1.3529	0.050	1.90	14.3	5443.	2861.9	27.2	0.	0.000	0.000	0.050
326	60.60	60.40	1.3549	0.050	1.90	14.3	5448.	2862.4	27.2	0.	0.000	0.000	0.050
327	60.40	60.20	1.3569	0.050	1.90	14.3	5452.	2862.9	27.3	0.	0.000	0.000	0.050
328	60.20	60.00	1.3589	0.050	1.91	14.3	5457.	2863.5	27.3	0.	0.000	0.000	0.050
329	60.00	59.80	1.3608	0.050	1.91	14.3	5461.	2864.0	27.3	0.	0.000	0.000	0.050
330	59.80	59.60	1.3628	0.050	1.91	14.3	5466.	2864.5	27.3	0.	0.000	0.000	0.050
331	59.60	59.40	1.3648	0.050	1.91	14.3	5470.	2865.0	27.4	0.	0.000	0.000	0.050
332	59.40	59.20	1.3668	0.050	1.91	14.3	5475.	2865.5	27.4	0.	0.000	0.000	0.050
333	59.20	59.00	1.3688	0.050	1.91	14.3	5479.	2866.0	27.4	0.	0.000	0.000	0.050
334	59.00	58.80	1.3708	0.050	1.91	14.3	5484.	2866.5	27.4	0.	0.000	0.000	0.050
335	58.80	58.60	1.3727	0.050	1.91	14.3	5488.	2866.9	27.4	0.	0.000	0.000	0.050
336	58.60	58.40	1.3747	0.050	1.92	14.3	5493.	2867.4	27.5	0.	0.000	0.000	0.050
337	58.40	58.20	1.3767	0.050	1.92	14.3	5497.	2867.9	27.5	0.	0.000	0.000	0.050
338	58.20	58.00	1.3787	0.050	1.92	14.3	5502.	2868.4	27.5	0.	0.000	0.000	0.050
339	58.00	57.80	1.3807	0.050	1.92	14.3	5506.	2868.9	27.5	0.	0.000	0.000	0.050

340	57.80	57.60	1.3827	0.050	1.92	14.3	5511.	2869.4	27.6	0.	0.000	0.000	0.050
341	57.60	57.40	1.3847	0.050	1.92	14.3	5515.	2869.9	27.6	0.	0.000	0.000	0.050
342	57.40	57.20	1.3866	0.050	1.92	14.4	5520.	2870.4	27.6	0.	0.000	0.000	0.050
343	57.20	57.00	1.3886	0.050	1.92	14.4	5524.	2870.9	27.6	0.	0.000	0.000	0.050
344	57.00	56.80	1.3906	0.050	1.93	14.4	5529.	2871.4	27.6	0.	0.000	0.000	0.050
345	56.80	56.60	1.3926	0.050	1.93	14.4	5533.	2871.9	27.7	0.	0.000	0.000	0.050
346	56.60	56.40	1.3946	0.050	1.93	14.4	5538.	2872.4	27.7	0.	0.000	0.000	0.050
347	56.40	56.20	1.3966	0.050	1.93	14.4	5542.	2872.9	27.7	0.	0.000	0.000	0.050
348	56.20	56.00	1.3985	0.050	1.93	14.4	5547.	2873.4	27.7	0.	0.000	0.000	0.050
349	56.00	55.80	1.4005	0.050	1.93	14.4	5551.	2873.9	27.8	0.	0.000	0.000	0.050
350	55.80	55.60	1.4025	0.050	1.93	14.4	5556.	2874.3	27.8	0.	0.000	0.000	0.050
351	55.60	55.40	1.4045	0.051	1.93	14.4	5560.	2874.8	27.8	0.	0.000	0.000	0.051
352	55.40	55.20	1.4065	0.051	1.94	14.4	5565.	2875.3	27.8	0.	0.000	0.000	0.051
353	55.20	55.00	1.4085	0.051	1.94	14.4	5569.	2875.8	27.8	0.	0.000	0.000	0.051
354	55.00	54.80	1.4105	0.051	1.94	14.4	5574.	2876.3	27.9	0.	0.000	0.000	0.051
355	54.80	54.60	1.4124	0.051	1.94	14.4	5578.	2876.8	27.9	0.	0.000	0.000	0.051
356	54.60	54.40	1.4144	0.051	1.94	14.4	5583.	2877.3	27.9	0.	0.000	0.000	0.051
357	54.40	54.20	1.4164	0.051	1.94	14.4	5587.	2877.7	27.9	0.	0.000	0.000	0.051
358	54.20	54.00	1.4184	0.051	1.94	14.4	5592.	2878.2	28.0	0.	0.000	0.000	0.051
359	54.00	53.80	1.4204	0.051	1.94	14.4	5596.	2878.7	28.0	0.	0.000	0.000	0.051
360	53.80	53.60	1.4224	0.051	1.95	14.4	5601.	2879.2	28.0	0.	0.000	0.000	0.051
361	53.60	53.40	1.4243	0.051	1.95	14.4	5605.	2879.7	28.0	0.	0.000	0.000	0.051
362	53.40	53.20	1.4263	0.051	1.95	14.4	5609.	2880.2	28.0	0.	0.000	0.000	0.051
363	53.20	53.00	1.4283	0.051	1.95	14.4	5614.	2880.6	28.1	0.	0.000	0.000	0.051
364	53.00	52.80	1.4303	0.051	1.95	14.4	5618.	2881.1	28.1	0.	0.000	0.000	0.051
365	52.80	52.60	1.4323	0.051	1.95	14.4	5623.	2881.6	28.1	0.	0.000	0.000	0.051
366	52.60	52.40	1.4343	0.051	1.95	14.4	5627.	2882.1	28.1	0.	0.000	0.000	0.051
367	52.40	52.20	1.4362	0.051	1.95	14.4	5632.	2882.5	28.2	0.	0.000	0.000	0.051
368	52.20	52.00	1.4382	0.051	1.95	14.4	5636.	2883.0	28.2	0.	0.000	0.000	0.051
369	52.00	51.80	1.4402	0.051	1.96	14.4	5641.	2883.5	28.2	0.	0.000	0.000	0.051
370	51.80	51.60	1.4422	0.051	1.96	14.4	5645.	2884.0	28.2	0.	0.000	0.000	0.051
371	51.60	51.40	1.4442	0.051	1.96	14.4	5649.	2884.5	28.2	0.	0.000	0.000	0.051
372	51.40	51.20	1.4462	0.051	1.96	14.4	5654.	2884.9	28.3	0.	0.000	0.000	0.051
373	51.20	51.00	1.4482	0.051	1.96	14.4	5658.	2885.4	28.3	0.	0.000	0.000	0.051
374	51.00	50.80	1.4501	0.051	1.96	14.4	5663.	2885.9	28.3	0.	0.000	0.000	0.051
375	50.80	50.60	1.4521	0.051	1.96	14.4	5667.	2886.4	28.3	0.	0.000	0.000	0.051
376	50.60	50.40	1.4541	0.051	1.96	14.4	5671.	2886.8	28.4	0.	0.000	0.000	0.051
377	50.40	50.20	1.4561	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
378	50.20	50.00	1.4581	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
379	50.00	49.80	1.4601	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
380	49.80	49.60	1.4620	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
381	49.60	49.40	1.4640	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
382	49.40	49.20	1.4660	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
383	49.20	49.00	1.4680	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
384	49.00	48.80	1.4700	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
385	48.80	48.60	1.4720	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
386	48.60	48.40	1.4739	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
387	48.40	48.20	1.4759	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
388	48.20	48.00	1.4809	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
389	48.00	47.80	1.4829	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
390	47.80	47.60	1.4849	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001

391	47.60	47.40	1.4869	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
392	47.40	47.20	1.4888	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
393	47.20	47.00	1.4908	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
394	47.00	46.80	1.4928	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
395	46.80	46.60	1.4948	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
396	46.60	46.40	1.4968	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
397	46.40	46.20	1.4988	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
398	46.20	46.00	1.5007	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
399	46.00	45.80	1.5027	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
400	45.80	45.60	1.5047	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
401	45.60	45.40	1.5067	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
402	45.40	45.20	1.5087	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
403	45.20	45.00	1.5107	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
404	45.00	44.80	1.5126	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
405	44.80	44.60	1.5146	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
406	44.60	44.40	1.5166	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
407	44.40	44.20	1.5186	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
408	44.20	44.00	1.5206	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
409	44.00	43.80	1.5226	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
410	43.80	43.60	1.5245	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
411	43.60	43.40	1.5265	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
412	43.40	43.20	1.5285	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
413	43.20	43.00	1.5305	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
414	43.00	42.80	1.5325	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
415	42.80	42.60	1.5345	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
416	42.60	42.40	1.5365	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
417	42.40	42.20	1.5384	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
418	42.20	42.00	1.5404	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
419	42.00	41.80	1.5424	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
420	41.80	41.60	1.5444	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
421	41.60	41.40	1.5464	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
422	41.40	41.20	1.5484	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
423	41.20	41.00	1.5503	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
424	41.00	40.80	1.5523	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
425	40.80	40.60	1.5543	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
426	40.60	40.40	1.5563	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
427	40.40	40.20	1.5583	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
428	40.20	40.00	1.5603	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
429	40.00	39.80	1.5622	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
430	39.80	39.60	1.5642	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
431	39.60	39.40	1.5662	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
432	39.40	39.20	1.5682	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
433	39.20	39.00	1.5702	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
434	39.00	38.80	1.5722	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
435	38.80	38.60	1.5741	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
436	38.60	38.40	1.5761	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
437	38.40	38.20	1.5781	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
438	38.20	38.00	1.5801	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
439	38.00	37.80	1.5821	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
440	37.80	37.60	1.5841	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
441	37.60	37.40	1.5860	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001

442	37.40	37.20	1.5880	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
443	37.20	37.00	1.5900	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
444	37.00	36.80	1.5920	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
445	36.80	36.60	1.5940	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
446	36.60	36.40	1.5960	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
447	36.40	36.20	1.5979	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
448	36.20	36.00	1.5999	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
449	36.00	35.80	1.6019	0.001	1.52	1297.0	394288.	259400.0	1971.4	0.	0.000	0.000	0.001
450	35.80	35.60	1.6039	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
451	35.60	35.40	1.6059	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
452	35.40	35.20	1.6079	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
453	35.20	35.00	1.6098	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
454	35.00	34.80	1.6118	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
455	34.80	34.60	1.6138	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
456	34.60	34.40	1.6158	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
457	34.40	34.20	1.6178	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
458	34.20	34.00	1.6198	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
459	34.00	33.80	1.6217	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
460	33.80	33.60	1.6237	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
461	33.60	33.40	1.6257	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
462	33.40	33.20	1.6277	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
463	33.20	33.00	1.6297	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
464	33.00	32.80	1.6317	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
465	32.80	32.60	1.6336	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
466	32.60	32.40	1.6356	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
467	32.40	32.20	1.6376	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
468	32.20	32.00	1.6396	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
469	32.00	31.80	1.6416	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
470	31.80	31.60	1.6436	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
471	31.60	31.40	1.6456	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
472	31.40	31.20	1.6475	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
473	31.20	31.00	1.6495	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
474	31.00	30.80	1.6515	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
475	30.80	30.60	1.6535	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
476	30.60	30.40	1.6555	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
477	30.40	30.20	1.6575	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
478	30.20	30.00	1.6594	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
479	30.00	29.80	1.6614	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
480	29.80	29.60	1.6634	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
481	29.60	29.40	1.6654	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
482	29.40	29.20	1.6674	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
483	29.20	29.00	1.6694	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
484	29.00	28.80	1.6713	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
485	28.80	28.60	1.6733	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
486	28.60	28.40	1.6753	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
487	28.40	28.20	1.6773	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
488	28.20	28.00	1.6793	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
489	28.00	27.80	1.6813	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
490	27.80	27.60	1.6832	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
491	27.60	27.40	1.6852	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
492	27.40	27.20	1.6872	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000

493	27.20	27.00	1.6892	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
494	27.00	26.80	1.6912	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
495	26.80	26.60	1.6932	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
496	26.60	26.40	1.6951	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
497	26.40	26.20	1.6971	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
498	26.20	26.00	1.6991	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
499	26.00	25.80	1.7011	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
500	25.80	25.60	1.7031	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
501	25.60	25.40	1.7051	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
502	25.40	25.20	1.7071	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
503	25.20	25.00	1.7090	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
504	25.00	24.80	1.7110	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
505	24.80	24.60	0.8565	0.000	4.97	1699.0	1688806.	339800.0	8444.0	0.	0.000	0.000	0.000
506	24.60	24.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
507	24.40	24.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
508	24.20	24.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
509	24.00	23.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
510	23.80	23.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
511	23.60	23.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
512	23.40	23.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
513	23.20	23.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
514	23.00	22.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
515	22.80	22.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
516	22.60	22.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
517	22.40	22.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
518	22.20	22.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
519	22.00	21.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
520	21.80	21.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
521	21.60	21.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
522	21.40	21.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
523	21.20	21.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
524	21.00	20.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
525	20.80	20.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
526	20.60	20.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
527	20.40	20.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
528	20.20	20.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
529	20.00	19.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
530	19.80	19.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
531	19.60	19.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
532	19.40	19.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
533	19.20	19.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
534	19.00	18.80	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
535	18.80	18.60	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
536	18.60	18.40	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
537	18.40	18.20	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
538	18.20	18.00	0.8565	0.001	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.001
539	18.00	17.80	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
540	17.80	17.60	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
541	17.60	17.40	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
542	17.40	17.20	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
543	17.20	17.00	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004

544	17.00	16.80	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
545	16.80	16.60	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
546	16.60	16.40	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
547	16.40	16.20	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
548	16.20	16.00	2.4670	0.004	5.68	110.0	124960.	22000.0	624.8	0.	0.000	0.000	0.004
579	16.00	15.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
580	15.80	15.60	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
581	15.60	15.40	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
582	15.40	15.20	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
583	15.20	15.00	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
584	15.00	14.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
585	14.80	14.60	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
586	14.60	14.40	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
587	14.40	14.20	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
588	14.20	14.00	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
589	14.00	13.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
590	13.80	13.60	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
591	13.60	13.40	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
592	13.40	13.20	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
593	13.20	13.00	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
594	13.00	12.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
595	12.80	12.60	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
596	12.60	12.40	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
597	12.40	12.20	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
598	12.20	12.00	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
599	12.00	11.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
600	11.80	11.60	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
601	11.60	11.40	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
602	11.40	11.20	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
603	11.20	11.00	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
604	11.00	10.80	3.3235	0.014	4.57	50.6	46212.	10112.0	231.1	0.	0.000	0.000	0.014
605	10.80	10.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
606	10.60	10.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
607	10.40	10.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
608	10.20	10.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
609	10.00	9.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
610	9.80	9.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
611	9.60	9.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
612	9.40	9.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
613	9.20	9.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
614	9.00	8.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
615	8.80	8.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
616	8.60	8.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
617	8.40	8.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
618	8.20	8.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
619	8.00	7.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
620	7.80	7.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
621	7.60	7.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
622	7.40	7.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
623	7.20	7.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
624	7.00	6.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012

625	6.80	6.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
626	6.60	6.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
627	6.40	6.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
628	6.20	6.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
629	6.00	5.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
630	5.80	5.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
631	5.60	5.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
632	5.40	5.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
633	5.20	5.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
634	5.00	4.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
635	4.80	4.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
636	4.60	4.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
637	4.40	4.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
638	4.20	4.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
639	4.00	3.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
640	3.80	3.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
641	3.60	3.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
642	3.40	3.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
643	3.20	3.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
644	3.00	2.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
645	2.80	2.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
646	2.60	2.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
647	2.40	2.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
648	2.20	2.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
649	2.00	1.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
650	1.80	1.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
651	1.60	1.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
652	1.40	1.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
653	1.20	1.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
654	1.00	0.80	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
655	0.80	0.60	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
656	0.60	0.40	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
657	0.40	0.20	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012
658	0.20	0.00	3.3235	0.012	4.57	61.5	56229.	12304.0	281.1	0.	0.000	0.000	0.012

SPECIAL REPORT: Praire
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
549	6.00	5.80	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
550	5.80	5.60	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
551	5.60	5.40	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
552	5.40	5.20	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
553	5.20	5.00	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
554	5.00	4.80	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
555	4.80	4.60	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
556	4.60	4.40	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000

557	4.40	4.20	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
558	4.20	4.00	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
559	4.00	3.80	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
560	3.80	3.60	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
561	3.60	3.40	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
562	3.40	3.20	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
563	3.20	3.00	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
564	3.00	2.80	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
565	2.80	2.60	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
566	2.60	2.40	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
567	2.40	2.20	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
568	2.20	2.00	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
569	2.00	1.80	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
570	1.80	1.60	0.8565	0.000	0.91	2604.0	473928.	520800.0	2369.6	0.	0.000	0.000	0.000
571	1.60	1.40	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
572	1.40	1.20	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
573	1.20	1.00	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
574	1.00	0.80	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
575	0.80	0.60	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
576	0.60	0.40	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
577	0.40	0.20	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005
578	0.20	0.00	0.8565	0.005	3.12	61.0	38064.	12200.0	190.3	0.	0.000	0.000	0.005

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 1 Black Lake Bayou Winter Projection

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A	COLI #/100mL	NCM
1	HDWTR	0.23000	20.10	0.00	0.00	0.00	5.03	2.25	0.00	2.25	0.00	1.21	0.19	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00198	20.10	0.00	0.00	0.00	5.13	1.76	0.00			1.76	0.18	0.05	0.00	0.00	0.00	
1	WSTLD	0.23900	20.10	0.00	0.00	0.00	5.02	2.29	0.00	2.29	0.00	1.23	0.19	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	125.60	125.40	0.47098	50.7	0.03430	0.07	1.35	10.14	2746.12	2028.21	13.73	0.00	0.000	0.000	0.034
2	125.40	125.20	0.47297	50.5	0.03436	0.07	1.36	10.15	2752.71	2029.24	13.76	0.00	0.000	0.000	0.034
3	125.20	125.00	0.47495	50.3	0.03443	0.07	1.36	10.15	2759.29	2030.26	13.80	0.00	0.000	0.000	0.034
4	125.00	124.80	0.47694	50.1	0.03449	0.07	1.36	10.16	2765.86	2031.27	13.83	0.00	0.000	0.000	0.034
5	124.80	124.60	0.47892	49.9	0.03455	0.07	1.36	10.16	2772.41	2032.29	13.86	0.00	0.000	0.000	0.035
6	124.60	124.40	0.48091	49.7	0.03461	0.07	1.37	10.17	2778.95	2033.29	13.89	0.00	0.000	0.000	0.035
7	124.40	124.20	0.48289	49.5	0.03467	0.07	1.37	10.17	2785.48	2034.30	13.93	0.00	0.000	0.000	0.035

8	124.20	124.00	0.48487	49.3	0.03473	0.07	1.37	10.18	2792.00	2035.30	13.96	0.00	0.000	0.000	0.035
9	124.00	123.80	0.48686	49.1	0.03479	0.07	1.37	10.18	2798.51	2036.30	13.99	0.00	0.000	0.000	0.035
10	123.80	123.60	0.48884	48.9	0.03486	0.07	1.38	10.19	2805.00	2037.29	14.03	0.00	0.000	0.000	0.035
11	123.60	123.40	0.49083	48.7	0.03492	0.07	1.38	10.19	2811.49	2038.28	14.06	0.00	0.000	0.000	0.035
12	123.40	123.20	0.49281	48.5	0.03498	0.07	1.38	10.20	2817.96	2039.27	14.09	0.00	0.000	0.000	0.035
13	123.20	123.00	0.49480	48.3	0.03504	0.07	1.38	10.20	2824.42	2040.25	14.12	0.00	0.000	0.000	0.035
14	123.00	122.80	0.49678	48.1	0.03510	0.07	1.39	10.21	2830.87	2041.23	14.15	0.00	0.000	0.000	0.035
15	122.80	122.60	0.49876	47.9	0.03516	0.07	1.39	10.21	2837.31	2042.21	14.19	0.00	0.000	0.000	0.035
16	122.60	122.40	0.50075	47.7	0.03522	0.07	1.39	10.22	2843.74	2043.18	14.22	0.00	0.000	0.000	0.035
17	122.40	122.20	0.50273	47.5	0.03528	0.07	1.39	10.22	2850.16	2044.15	14.25	0.00	0.000	0.000	0.035
18	122.20	122.00	0.50472	47.4	0.03534	0.07	1.40	10.23	2856.56	2045.12	14.28	0.00	0.000	0.000	0.035
19	122.00	121.80	0.50670	47.2	0.03540	0.07	1.40	10.23	2862.96	2046.08	14.31	0.00	0.000	0.000	0.035
20	121.80	121.60	0.50869	47.0	0.03546	0.07	1.40	10.24	2869.35	2047.04	14.35	0.00	0.000	0.000	0.035
21	121.60	121.40	0.51067	46.8	0.03552	0.07	1.40	10.24	2875.72	2048.00	14.38	0.00	0.000	0.000	0.036
22	121.40	121.20	0.51265	46.6	0.03558	0.07	1.41	10.24	2882.08	2048.95	14.41	0.00	0.000	0.000	0.036
23	121.20	121.00	0.51464	46.4	0.03563	0.06	1.41	10.25	2888.44	2049.90	14.44	0.00	0.000	0.000	0.036
24	121.00	120.80	0.51662	46.3	0.03569	0.06	1.41	10.25	2894.78	2050.85	14.47	0.00	0.000	0.000	0.036
25	120.80	120.60	0.51861	46.1	0.03575	0.06	1.41	10.26	2901.11	2051.79	14.51	0.00	0.000	0.000	0.036
26	120.60	120.40	0.52059	45.9	0.03581	0.06	1.42	10.26	2907.44	2052.73	14.54	0.00	0.000	0.000	0.036
27	120.40	120.20	0.52258	45.7	0.03587	0.06	1.42	10.27	2913.75	2053.67	14.57	0.00	0.000	0.000	0.036
28	120.20	120.00	0.52456	45.6	0.03593	0.06	1.42	10.27	2920.05	2054.61	14.60	0.00	0.000	0.000	0.036
29	120.00	119.80	0.52654	45.4	0.03599	0.06	1.42	10.28	2926.34	2055.54	14.63	0.00	0.000	0.000	0.036
30	119.80	119.60	0.52853	45.2	0.03604	0.06	1.43	10.28	2932.62	2056.46	14.66	0.00	0.000	0.000	0.036
31	119.60	119.40	0.53051	45.1	0.03610	0.06	1.43	10.29	2938.89	2057.39	14.69	0.00	0.000	0.000	0.036
32	119.40	119.20	0.53250	44.9	0.03616	0.06	1.43	10.29	2945.15	2058.31	14.73	0.00	0.000	0.000	0.036
33	119.20	119.00	0.53448	44.7	0.03622	0.06	1.43	10.30	2951.40	2059.23	14.76	0.00	0.000	0.000	0.036
34	119.00	118.80	0.53647	44.6	0.03628	0.06	1.44	10.30	2957.64	2060.15	14.79	0.00	0.000	0.000	0.036
35	118.80	118.60	0.53845	44.4	0.03633	0.06	1.44	10.31	2963.87	2061.06	14.82	0.00	0.000	0.000	0.036
36	118.60	118.40	0.54043	44.2	0.03639	0.06	1.44	10.31	2970.09	2061.97	14.85	0.00	0.000	0.000	0.036
37	118.40	118.20	0.54242	44.1	0.03645	0.06	1.44	10.31	2976.31	2062.88	14.88	0.00	0.000	0.000	0.036
38	118.20	118.00	0.54440	43.9	0.03651	0.06	1.45	10.32	2982.51	2063.78	14.91	0.00	0.000	0.000	0.037
39	118.00	117.80	0.54639	43.7	0.03656	0.06	1.45	10.32	2988.70	2064.68	14.94	0.00	0.000	0.000	0.037
40	117.80	117.60	0.54837	43.6	0.03662	0.06	1.45	10.33	2994.88	2065.58	14.97	0.00	0.000	0.000	0.037
41	117.60	117.40	0.55036	43.4	0.03668	0.06	1.45	10.33	3001.05	2066.48	15.01	0.00	0.000	0.000	0.037
42	117.40	117.20	0.55234	43.3	0.03673	0.06	1.45	10.34	3007.22	2067.37	15.04	0.00	0.000	0.000	0.037
43	117.20	117.00	0.55432	43.1	0.03679	0.06	1.46	10.34	3013.37	2068.26	15.07	0.00	0.000	0.000	0.037
44	117.00	116.80	0.55631	43.0	0.03685	0.06	1.46	10.35	3019.51	2069.15	15.10	0.00	0.000	0.000	0.037
45	116.80	116.60	0.55829	42.8	0.03690	0.06	1.46	10.35	3025.65	2070.03	15.13	0.00	0.000	0.000	0.037
46	116.60	116.40	0.56028	42.7	0.03696	0.06	1.46	10.35	3031.77	2070.91	15.16	0.00	0.000	0.000	0.037
47	116.40	116.20	0.56226	42.5	0.03702	0.06	1.47	10.36	3037.89	2071.79	15.19	0.00	0.000	0.000	0.037
48	116.20	116.00	0.56425	42.4	0.03707	0.06	1.47	10.36	3043.99	2072.67	15.22	0.00	0.000	0.000	0.037
49	116.00	115.80	0.56623	42.2	0.03713	0.06	1.47	10.37	3050.09	2073.54	15.25	0.00	0.000	0.000	0.037
50	115.80	115.60	0.56821	42.1	0.03718	0.06	1.47	10.37	3056.18	2074.41	15.28	0.00	0.000	0.000	0.037
51	115.60	115.40	0.57020	41.9	0.03724	0.06	1.48	10.38	3062.26	2075.28	15.31	0.00	0.000	0.000	0.037
52	115.40	115.20	0.57218	41.8	0.03730	0.06	1.48	10.38	3068.33	2076.14	15.34	0.00	0.000	0.000	0.037
53	115.20	115.00	0.57417	41.6	0.03735	0.06	1.48	10.39	3074.39	2077.01	15.37	0.00	0.000	0.000	0.037
54	115.00	114.80	0.57615	41.5	0.03741	0.06	1.48	10.39	3080.44	2077.87	15.40	0.00	0.000	0.000	0.037
55	114.80	114.60	0.57814	41.3	0.03746	0.06	1.48	10.39	3086.48	2078.72	15.43	0.00	0.000	0.000	0.037
56	114.60	114.40	0.58012	41.2	0.03752	0.06	1.49	10.40	3092.52	2079.58	15.46	0.00	0.000	0.000	0.038
57	114.40	114.20	0.58210	41.1	0.03757	0.06	1.49	10.40	3098.54	2080.43	15.49	0.00	0.000	0.000	0.038
58	114.20	114.00	0.58409	40.9	0.03763	0.06	1.49	10.41	3104.56	2081.28	15.52	0.00	0.000	0.000	0.038

59	114.00	113.80	0.58607	40.8	0.03768	0.06	1.49	10.41	3110.57	2082.13	15.55	0.00	0.000	0.000	0.038
60	113.80	113.60	0.58806	40.6	0.03774	0.06	1.50	10.41	3116.56	2082.97	15.58	0.00	0.000	0.000	0.038
61	113.60	113.40	0.59004	40.5	0.03779	0.06	1.50	10.42	3122.55	2083.81	15.61	0.00	0.000	0.000	0.038
62	113.40	113.20	0.59203	40.4	0.03785	0.06	1.50	10.42	3128.53	2084.65	15.64	0.00	0.000	0.000	0.038
63	113.20	113.00	0.59401	40.2	0.03790	0.06	1.50	10.43	3134.51	2085.49	15.67	0.00	0.000	0.000	0.038
64	113.00	112.80	0.59600	40.1	0.03796	0.06	1.51	10.43	3140.47	2086.33	15.70	0.00	0.000	0.000	0.038
65	112.80	112.60	0.59798	40.0	0.03801	0.06	1.51	10.44	3146.43	2087.16	15.73	0.00	0.000	0.000	0.038
66	112.60	112.40	0.59996	39.8	0.03806	0.06	1.51	10.44	3152.37	2087.99	15.76	0.00	0.000	0.000	0.038
67	112.40	112.20	0.60195	39.7	0.03812	0.06	1.51	10.44	3158.31	2088.82	15.79	0.00	0.000	0.000	0.038
68	112.20	112.00	0.60393	39.6	0.03817	0.06	1.51	10.45	3164.24	2089.64	15.82	0.00	0.000	0.000	0.038
69	112.00	111.80	0.60592	39.4	0.03823	0.06	1.52	10.45	3170.17	2090.46	15.85	0.00	0.000	0.000	0.038
70	111.80	111.60	0.60790	39.3	0.03828	0.06	1.52	10.46	3176.08	2091.28	15.88	0.00	0.000	0.000	0.038

TOT			4.46		207547.98	144263.75	
AVG		0.0363		1.44	10.30		14.82
CUM			4.46				

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da
1	125.400	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
2	125.200	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
3	125.000	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
4	124.800	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
5	124.600	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
6	124.400	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
7	124.200	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
8	124.000	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
9	123.800	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
10	123.600	9.07	0.85	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
11	123.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
12	123.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
13	123.000	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
14	122.800	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
15	122.600	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
16	122.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
17	122.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
18	122.000	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
19	121.800	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
20	121.600	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
21	121.400	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
22	121.200	9.07	0.84	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
23	121.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
24	120.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
25	120.600	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
26	120.400	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
27	120.200	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

28	120.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
29	119.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
30	119.600	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
31	119.400	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
32	119.200	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
33	119.000	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
34	118.800	9.07	0.83	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
35	118.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
36	118.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
37	118.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
38	118.000	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
39	117.800	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
40	117.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
41	117.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
42	117.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
43	117.000	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
44	116.800	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
45	116.600	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
46	116.400	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
47	116.200	9.07	0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
48	116.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
49	115.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
50	115.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
51	115.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
52	115.200	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
53	115.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
54	114.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
55	114.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
56	114.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
57	114.200	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
58	114.000	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
59	113.800	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
60	113.600	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
61	113.400	9.07	0.81	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
62	113.200	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
63	113.000	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
64	112.800	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
65	112.600	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
66	112.400	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
67	112.200	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
68	112.000	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
69	111.800	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
70	111.600	9.07	0.80	0.06	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.82	0.06	0.00	0.00	0.00	0.00	0.00	1.94			0.02	0.00	0.11	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	125.400	20.10	0.00	0.00	0.00	5.17	2.27	0.00	2.27	0.00	1.22	0.19	0.02	1.44	0.00	20.00	0.00	0.	0.00
2	125.200	20.10	0.00	0.00	0.00	5.31	2.26	0.00	2.26	0.00	1.22	0.19	0.02	1.43	0.00	20.00	0.00	0.	0.00
3	125.000	20.10	0.00	0.00	0.00	5.44	2.25	0.00	2.25	0.00	1.22	0.19	0.02	1.43	0.00	20.00	0.00	0.	0.00
4	124.800	20.10	0.00	0.00	0.00	5.57	2.25	0.00	2.25	0.00	1.22	0.19	0.02	1.43	0.00	20.00	0.00	0.	0.00
5	124.600	20.10	0.00	0.00	0.00	5.68	2.24	0.00	2.24	0.00	1.23	0.19	0.02	1.43	0.00	20.00	0.00	0.	0.00
6	124.400	20.10	0.00	0.00	0.00	5.79	2.24	0.00	2.24	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
7	124.200	20.10	0.00	0.00	0.00	5.89	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
8	124.000	20.10	0.00	0.00	0.00	5.99	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
9	123.800	20.10	0.00	0.00	0.00	6.08	2.23	0.00	2.23	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
10	123.600	20.10	0.00	0.00	0.00	6.17	2.22	0.00	2.22	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
11	123.400	20.10	0.00	0.00	0.00	6.25	2.22	0.00	2.22	0.00	1.23	0.19	0.01	1.43	0.00	20.00	0.00	0.	0.00
12	123.200	20.10	0.00	0.00	0.00	6.32	2.21	0.00	2.21	0.00	1.23	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
13	123.000	20.10	0.00	0.00	0.00	6.39	2.21	0.00	2.21	0.00	1.23	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
14	122.800	20.10	0.00	0.00	0.00	6.46	2.20	0.00	2.20	0.00	1.23	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
15	122.600	20.10	0.00	0.00	0.00	6.52	2.20	0.00	2.20	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
16	122.400	20.10	0.00	0.00	0.00	6.58	2.19	0.00	2.19	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
17	122.200	20.10	0.00	0.00	0.00	6.64	2.19	0.00	2.19	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
18	122.000	20.10	0.00	0.00	0.00	6.69	2.18	0.00	2.18	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
19	121.800	20.10	0.00	0.00	0.00	6.74	2.18	0.00	2.18	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
20	121.600	20.10	0.00	0.00	0.00	6.79	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
21	121.400	20.10	0.00	0.00	0.00	6.83	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.43	0.00	20.00	0.00	0.	0.00
22	121.200	20.10	0.00	0.00	0.00	6.88	2.17	0.00	2.17	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
23	121.000	20.10	0.00	0.00	0.00	6.92	2.16	0.00	2.16	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
24	120.800	20.10	0.00	0.00	0.00	6.95	2.16	0.00	2.16	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
25	120.600	20.10	0.00	0.00	0.00	6.99	2.15	0.00	2.15	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
26	120.400	20.10	0.00	0.00	0.00	7.02	2.15	0.00	2.15	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
27	120.200	20.10	0.00	0.00	0.00	7.06	2.14	0.00	2.14	0.00	1.24	0.19	0.00	1.44	0.00	20.00	0.00	0.	0.00
28	120.000	20.10	0.00	0.00	0.00	7.09	2.14	0.00	2.14	0.00	1.25	0.20	0.00	1.44	0.00	20.00	0.00	0.	0.00
29	119.800	20.10	0.00	0.00	0.00	7.11	2.14	0.00	2.14	0.00	1.25	0.20	0.00	1.44	0.00	20.00	0.00	0.	0.00
30	119.600	20.10	0.00	0.00	0.00	7.14	2.13	0.00	2.13	0.00	1.25	0.20	0.00	1.44	0.00	20.00	0.00	0.	0.00
31	119.400	20.10	0.00	0.00	0.00	7.17	2.13	0.00	2.13	0.00	1.25	0.20	0.00	1.44	0.00	20.00	0.00	0.	0.00
32	119.200	20.10	0.00	0.00	0.00	7.19	2.12	0.00	2.12	0.00	1.25	0.20	0.00	1.44	0.00	20.00	0.00	0.	0.00
33	119.000	20.10	0.00	0.00	0.00	7.21	2.12	0.00	2.12	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
34	118.800	20.10	0.00	0.00	0.00	7.24	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
35	118.600	20.10	0.00	0.00	0.00	7.26	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
36	118.400	20.10	0.00	0.00	0.00	7.28	2.11	0.00	2.11	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
37	118.200	20.10	0.00	0.00	0.00	7.29	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
38	118.000	20.10	0.00	0.00	0.00	7.31	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
39	117.800	20.10	0.00	0.00	0.00	7.33	2.10	0.00	2.10	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
40	117.600	20.10	0.00	0.00	0.00	7.34	2.09	0.00	2.09	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
41	117.400	20.10	0.00	0.00	0.00	7.36	2.09	0.00	2.09	0.00	1.25	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
42	117.200	20.10	0.00	0.00	0.00	7.37	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
43	117.000	20.10	0.00	0.00	0.00	7.39	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
44	116.800	20.10	0.00	0.00	0.00	7.40	2.08	0.00	2.08	0.00	1.26	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
45	116.600	20.10	0.00	0.00	0.00	7.41	2.07	0.00	2.07	0.00	1.26	0.20	0.00	1.45	0.00	20.00	0.00	0.	0.00
46	116.400	20.10	0.00	0.00	0.00	7.43	2.07	0.00	2.07	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
47	116.200	20.10	0.00	0.00	0.00	7.44	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
48	116.000	20.10	0.00	0.00	0.00	7.45	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00

49	115.800	20.10	0.00	0.00	0.00	7.46	2.06	0.00	2.06	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
50	115.600	20.10	0.00	0.00	0.00	7.47	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
51	115.400	20.10	0.00	0.00	0.00	7.48	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
52	115.200	20.10	0.00	0.00	0.00	7.49	2.05	0.00	2.05	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
53	115.000	20.10	0.00	0.00	0.00	7.49	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
54	114.800	20.10	0.00	0.00	0.00	7.50	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
55	114.600	20.10	0.00	0.00	0.00	7.51	2.04	0.00	2.04	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
56	114.400	20.10	0.00	0.00	0.00	7.52	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
57	114.200	20.10	0.00	0.00	0.00	7.52	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
58	114.000	20.10	0.00	0.00	0.00	7.53	2.03	0.00	2.03	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
59	113.800	20.10	0.00	0.00	0.00	7.54	2.02	0.00	2.02	0.00	1.26	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
60	113.600	20.10	0.00	0.00	0.00	7.54	2.02	0.00	2.02	0.00	1.27	0.20	0.00	1.46	0.00	20.00	0.00	0.	0.00
61	113.400	20.10	0.00	0.00	0.00	7.55	2.02	0.00	2.02	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
62	113.200	20.10	0.00	0.00	0.00	7.56	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
63	113.000	20.10	0.00	0.00	0.00	7.56	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
64	112.800	20.10	0.00	0.00	0.00	7.57	2.01	0.00	2.01	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
65	112.600	20.10	0.00	0.00	0.00	7.57	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
66	112.400	20.10	0.00	0.00	0.00	7.58	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
67	112.200	20.10	0.00	0.00	0.00	7.58	2.00	0.00	2.00	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
68	112.000	20.10	0.00	0.00	0.00	7.59	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
69	111.800	20.10	0.00	0.00	0.00	7.59	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
70	111.600	20.10	0.00	0.00	0.00	7.60	1.99	0.00	1.99	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 2 Black Lake Bayou Winter Projection

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
71	UPR RCH	0.60790	20.10	0.00	0.00	0.00	7.60	1.99	0.00	1.99	0.00	1.27	0.20	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00198	20.10	0.00	0.00	0.00	5.13	1.76	0.00		1.76	0.18	0.05	0.00	0.00	0.00		
119	WSTLD	0.09700	20.10	0.00	0.00	0.00	5.51	2.29	0.00	2.29	0.00	1.23	0.19	0.05	0.00	20.00	0.00	0.00
142	WSTLD	0.06600	20.10	0.00	0.00	0.00	5.13	2.29	0.00	2.29	0.00	1.23	0.19	0.05	0.00	20.00	0.00	0.00
231	WSTLD	0.07600	20.10	0.00	0.00	0.00	5.13	2.29	0.00	2.29	0.00	1.23	0.19	0.05	0.00	20.00	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	AREA m²	VOLUME m³	SURFACE AREA m²	PRISM m³	X-SECT VELO m/s	TIDAL VELO m²/s	TIDAL DISPRSN m/s	MEAN
71	111.60	111.40	0.60989	39.2	0.04499	0.05	1.21	11.21	2711.10	2242.88	13.56	0.00	0.000	0.000	0.045		
72	111.40	111.20	0.61187	39.1	0.04505	0.05	1.21	11.22	2716.12	2243.76	13.58	0.00	0.000	0.000	0.045		
73	111.20	111.00	0.61385	38.9	0.04512	0.05	1.21	11.22	2721.14	2244.63	13.61	0.00	0.000	0.000	0.045		
74	111.00	110.80	0.61584	38.8	0.04518	0.05	1.21	11.23	2726.15	2245.50	13.63	0.00	0.000	0.000	0.045		
75	110.80	110.60	0.61782	38.7	0.04524	0.05	1.22	11.23	2731.15	2246.37	13.66	0.00	0.000	0.000	0.045		

76	110.60	110.40	0.61981	38.6	0.04531	0.05	1.22	11.24	2736.15	2247.23	13.68	0.00	0.000	0.000	0.045
77	110.40	110.20	0.62179	38.4	0.04537	0.05	1.22	11.24	2741.14	2248.09	13.71	0.00	0.000	0.000	0.045
78	110.20	110.00	0.62377	38.3	0.04543	0.05	1.22	11.24	2746.12	2248.95	13.73	0.00	0.000	0.000	0.045
79	110.00	109.80	0.62576	38.2	0.04549	0.05	1.22	11.25	2751.10	2249.81	13.76	0.00	0.000	0.000	0.045
80	109.80	109.60	0.62774	38.1	0.04555	0.05	1.22	11.25	2756.07	2250.66	13.78	0.00	0.000	0.000	0.046
81	109.60	109.40	0.62973	38.0	0.04562	0.05	1.23	11.26	2761.03	2251.52	13.81	0.00	0.000	0.000	0.046
82	109.40	109.20	0.63171	37.8	0.04568	0.05	1.23	11.26	2765.98	2252.37	13.83	0.00	0.000	0.000	0.046
83	109.20	109.00	0.63370	37.7	0.04574	0.05	1.23	11.27	2770.93	2253.22	13.85	0.00	0.000	0.000	0.046
84	109.00	108.80	0.63568	37.6	0.04580	0.05	1.23	11.27	2775.88	2254.06	13.88	0.00	0.000	0.000	0.046
85	108.80	108.60	0.63766	37.5	0.04586	0.05	1.23	11.27	2780.81	2254.90	13.90	0.00	0.000	0.000	0.046
86	108.60	108.40	0.63965	37.4	0.04592	0.05	1.23	11.28	2785.74	2255.74	13.93	0.00	0.000	0.000	0.046
87	108.40	108.20	0.64163	37.2	0.04598	0.05	1.24	11.28	2790.66	2256.58	13.95	0.00	0.000	0.000	0.046
88	108.20	108.00	0.64362	37.1	0.04605	0.05	1.24	11.29	2795.58	2257.42	13.98	0.00	0.000	0.000	0.046
89	108.00	107.80	0.64560	37.0	0.04611	0.05	1.24	11.29	2800.49	2258.25	14.00	0.00	0.000	0.000	0.046
90	107.80	107.60	0.64759	36.9	0.04617	0.05	1.24	11.30	2805.39	2259.09	14.03	0.00	0.000	0.000	0.046
91	107.60	107.40	0.64957	36.8	0.04623	0.05	1.24	11.30	2810.29	2259.91	14.05	0.00	0.000	0.000	0.046
92	107.40	107.20	0.65155	36.7	0.04629	0.05	1.25	11.30	2815.18	2260.74	14.08	0.00	0.000	0.000	0.046
93	107.20	107.00	0.65354	36.6	0.04635	0.05	1.25	11.31	2820.06	2261.57	14.10	0.00	0.000	0.000	0.046
94	107.00	106.80	0.65552	36.5	0.04641	0.05	1.25	11.31	2824.94	2262.39	14.12	0.00	0.000	0.000	0.046
95	106.80	106.60	0.65751	36.3	0.04647	0.05	1.25	11.32	2829.81	2263.21	14.15	0.00	0.000	0.000	0.046
96	106.60	106.40	0.65949	36.2	0.04653	0.05	1.25	11.32	2834.67	2264.03	14.17	0.00	0.000	0.000	0.047
97	106.40	106.20	0.66148	36.1	0.04659	0.05	1.25	11.32	2839.53	2264.85	14.20	0.00	0.000	0.000	0.047
98	106.20	106.00	0.66346	36.0	0.04665	0.05	1.26	11.33	2844.38	2265.66	14.22	0.00	0.000	0.000	0.047
99	106.00	105.80	0.66544	35.9	0.04671	0.05	1.26	11.33	2849.23	2266.47	14.25	0.00	0.000	0.000	0.047
100	105.80	105.60	0.66743	35.8	0.04677	0.05	1.26	11.34	2854.07	2267.28	14.27	0.00	0.000	0.000	0.047
101	105.60	105.40	0.66941	35.7	0.04683	0.05	1.26	11.34	2858.90	2268.09	14.29	0.00	0.000	0.000	0.047
102	105.40	105.20	0.67140	35.6	0.04689	0.05	1.26	11.34	2863.73	2268.90	14.32	0.00	0.000	0.000	0.047
103	105.20	105.00	0.67338	35.5	0.04695	0.05	1.26	11.35	2868.55	2269.70	14.34	0.00	0.000	0.000	0.047
104	105.00	104.80	0.67536	35.4	0.04701	0.05	1.27	11.35	2873.37	2270.50	14.37	0.00	0.000	0.000	0.047
105	104.80	104.60	0.67735	35.3	0.04707	0.05	1.27	11.36	2878.17	2271.30	14.39	0.00	0.000	0.000	0.047
106	104.60	104.40	0.67933	35.2	0.04713	0.05	1.27	11.36	2882.98	2272.10	14.41	0.00	0.000	0.000	0.047
107	104.40	104.20	0.68132	35.1	0.04719	0.05	1.27	11.36	2887.77	2272.89	14.44	0.00	0.000	0.000	0.047
108	104.20	104.00	0.68330	35.0	0.04725	0.05	1.27	11.37	2892.56	2273.69	14.46	0.00	0.000	0.000	0.047
109	104.00	103.80	0.68529	34.9	0.04730	0.05	1.27	11.37	2897.35	2274.48	14.49	0.00	0.000	0.000	0.047
110	103.80	103.60	0.68727	34.8	0.04736	0.05	1.28	11.38	2902.13	2275.27	14.51	0.00	0.000	0.000	0.047
111	103.60	103.40	0.68925	34.7	0.04742	0.05	1.28	11.38	2906.90	2276.05	14.53	0.00	0.000	0.000	0.047
112	103.40	103.20	0.69124	34.6	0.04748	0.05	1.28	11.38	2911.67	2276.84	14.56	0.00	0.000	0.000	0.047
113	103.20	103.00	0.69322	34.5	0.04754	0.05	1.28	11.39	2916.43	2277.62	14.58	0.00	0.000	0.000	0.048
114	103.00	102.80	0.69521	34.4	0.04760	0.05	1.28	11.39	2921.18	2278.40	14.61	0.00	0.000	0.000	0.048
115	102.80	102.60	0.69719	34.3	0.04766	0.05	1.28	11.40	2925.93	2279.18	14.63	0.00	0.000	0.000	0.048
116	102.60	102.40	0.69918	34.2	0.04771	0.05	1.29	11.40	2930.68	2279.96	14.65	0.00	0.000	0.000	0.048
117	102.40	102.20	0.70116	34.1	0.04777	0.05	1.29	11.40	2935.42	2280.74	14.68	0.00	0.000	0.000	0.048
118	102.20	102.00	0.70314	34.0	0.04783	0.05	1.29	11.41	2940.15	2281.51	14.70	0.00	0.000	0.000	0.048
119	102.00	101.80	0.80213	41.9	0.05062	0.05	1.37	11.59	3169.37	2317.85	15.85	0.00	0.000	0.000	0.051
120	101.80	101.60	0.80411	41.8	0.05067	0.05	1.37	11.59	3173.84	2318.54	15.87	0.00	0.000	0.000	0.051
121	101.60	101.40	0.80610	41.7	0.05073	0.05	1.37	11.60	3178.30	2319.23	15.89	0.00	0.000	0.000	0.051
122	101.40	101.20	0.80808	41.6	0.05078	0.05	1.37	11.60	3182.76	2319.91	15.91	0.00	0.000	0.000	0.051
123	101.20	101.00	0.81007	41.5	0.05083	0.05	1.37	11.60	3187.21	2320.59	15.94	0.00	0.000	0.000	0.051
124	101.00	100.80	0.81205	41.4	0.05089	0.05	1.37	11.61	3191.66	2321.28	15.96	0.00	0.000	0.000	0.051
125	100.80	100.60	0.81403	41.3	0.05094	0.05	1.38	11.61	3196.10	2321.96	15.98	0.00	0.000	0.000	0.051
126	100.60	100.40	0.81602	41.2	0.05099	0.05	1.38	11.61	3200.54	2322.63	16.00	0.00	0.000	0.000	0.051

127	100.40	100.20	0.81800	41.1	0.05105	0.05	1.38	11.62	3204.97	2323.31	16.02	0.00	0.000	0.000	0.051
128	100.20	100.00	0.81999	41.0	0.05110	0.05	1.38	11.62	3209.40	2323.99	16.05	0.00	0.000	0.000	0.051
129	100.00	99.80	0.82197	40.9	0.05115	0.05	1.38	11.62	3213.82	2324.66	16.07	0.00	0.000	0.000	0.051
130	99.80	99.60	0.82396	40.8	0.05121	0.05	1.38	11.63	3218.24	2325.33	16.09	0.00	0.000	0.000	0.051
131	99.60	99.40	0.82594	40.7	0.05126	0.05	1.39	11.63	3222.66	2326.01	16.11	0.00	0.000	0.000	0.051
132	99.40	99.20	0.82792	40.6	0.05131	0.05	1.39	11.63	3227.07	2326.68	16.14	0.00	0.000	0.000	0.051
133	99.20	99.00	0.82991	40.5	0.05136	0.05	1.39	11.64	3231.48	2327.34	16.16	0.00	0.000	0.000	0.051
134	99.00	98.80	0.83189	40.4	0.05142	0.05	1.39	11.64	3235.88	2328.01	16.18	0.00	0.000	0.000	0.051
135	98.80	98.60	0.83388	40.3	0.05147	0.04	1.39	11.64	3240.27	2328.68	16.20	0.00	0.000	0.000	0.051
136	98.60	98.40	0.83586	40.2	0.05152	0.04	1.39	11.65	3244.67	2329.34	16.22	0.00	0.000	0.000	0.052
137	98.40	98.20	0.83784	40.1	0.05157	0.04	1.39	11.65	3249.06	2330.00	16.25	0.00	0.000	0.000	0.052
138	98.20	98.00	0.83983	40.0	0.05163	0.04	1.40	11.65	3253.44	2330.67	16.27	0.00	0.000	0.000	0.052
139	98.00	97.80	0.84181	39.9	0.05168	0.04	1.40	11.66	3257.82	2331.33	16.29	0.00	0.000	0.000	0.052
140	97.80	97.60	0.84380	39.8	0.05173	0.04	1.40	11.66	3262.19	2331.98	16.31	0.00	0.000	0.000	0.052
141	97.60	97.40	0.84578	39.7	0.05178	0.04	1.40	11.66	3266.56	2332.64	16.33	0.00	0.000	0.000	0.052
142	97.40	97.20	0.91377	44.0	0.05353	0.04	1.45	11.77	3413.74	2354.38	17.07	0.00	0.000	0.000	0.054
143	97.20	97.00	0.91575	43.9	0.05358	0.04	1.45	11.77	3417.96	2355.00	17.09	0.00	0.000	0.000	0.054
144	97.00	96.80	0.91773	43.8	0.05363	0.04	1.45	11.78	3422.18	2355.61	17.11	0.00	0.000	0.000	0.054
145	96.80	96.60	0.91972	43.7	0.05368	0.04	1.45	11.78	3426.39	2356.22	17.13	0.00	0.000	0.000	0.054
146	96.60	96.40	0.92170	43.6	0.05373	0.04	1.46	11.78	3430.60	2356.83	17.15	0.00	0.000	0.000	0.054
147	96.40	96.20	0.92369	43.5	0.05378	0.04	1.46	11.79	3434.81	2357.44	17.17	0.00	0.000	0.000	0.054
148	96.20	96.00	0.92567	43.4	0.05383	0.04	1.46	11.79	3439.02	2358.04	17.20	0.00	0.000	0.000	0.054
149	96.00	95.80	0.92766	43.3	0.05388	0.04	1.46	11.79	3443.22	2358.65	17.22	0.00	0.000	0.000	0.054
150	95.80	95.60	0.92964	43.2	0.05393	0.04	1.46	11.80	3447.41	2359.25	17.24	0.00	0.000	0.000	0.054
151	95.60	95.40	0.93162	43.2	0.05398	0.04	1.46	11.80	3451.61	2359.86	17.26	0.00	0.000	0.000	0.054
152	95.40	95.20	0.93361	43.1	0.05403	0.04	1.46	11.80	3455.79	2360.46	17.28	0.00	0.000	0.000	0.054
153	95.20	95.00	0.93559	43.0	0.05408	0.04	1.47	11.81	3459.98	2361.06	17.30	0.00	0.000	0.000	0.054
154	95.00	94.80	0.93758	42.9	0.05413	0.04	1.47	11.81	3464.16	2361.66	17.32	0.00	0.000	0.000	0.054
155	94.80	94.60	0.93956	42.8	0.05418	0.04	1.47	11.81	3468.34	2362.26	17.34	0.00	0.000	0.000	0.054
156	94.60	94.40	0.94155	42.7	0.05423	0.04	1.47	11.81	3472.51	2362.86	17.36	0.00	0.000	0.000	0.054
157	94.40	94.20	0.94353	42.6	0.05428	0.04	1.47	11.82	3476.68	2363.46	17.38	0.00	0.000	0.000	0.054
158	94.20	94.00	0.94551	42.5	0.05433	0.04	1.47	11.82	3480.84	2364.05	17.40	0.00	0.000	0.000	0.054
159	94.00	93.80	0.94750	42.4	0.05438	0.04	1.47	11.82	3485.01	2364.65	17.43	0.00	0.000	0.000	0.054
160	93.80	93.60	0.94948	42.3	0.05442	0.04	1.48	11.83	3489.16	2365.24	17.45	0.00	0.000	0.000	0.054
161	93.60	93.40	0.95147	42.3	0.05447	0.04	1.48	11.83	3493.32	2365.83	17.47	0.00	0.000	0.000	0.054
162	93.40	93.20	0.95345	42.2	0.05452	0.04	1.48	11.83	3497.47	2366.43	17.49	0.00	0.000	0.000	0.055
163	93.20	93.00	0.95544	42.1	0.05457	0.04	1.48	11.84	3501.62	2367.02	17.51	0.00	0.000	0.000	0.055
164	93.00	92.80	0.95742	42.0	0.05462	0.04	1.48	11.84	3505.76	2367.60	17.53	0.00	0.000	0.000	0.055
165	92.80	92.60	0.95940	41.9	0.05467	0.04	1.48	11.84	3509.90	2368.19	17.55	0.00	0.000	0.000	0.055
166	92.60	92.40	0.96139	41.8	0.05472	0.04	1.48	11.84	3514.04	2368.78	17.57	0.00	0.000	0.000	0.055
167	92.40	92.20	0.96337	41.7	0.05477	0.04	1.48	11.85	3518.17	2369.37	17.59	0.00	0.000	0.000	0.055
168	92.20	92.00	0.96536	41.6	0.05481	0.04	1.49	11.85	3522.30	2369.95	17.61	0.00	0.000	0.000	0.055
169	92.00	91.80	0.96734	41.6	0.05486	0.04	1.49	11.85	3526.42	2370.54	17.63	0.00	0.000	0.000	0.055
170	91.80	91.60	0.96932	41.5	0.05491	0.04	1.49	11.86	3530.54	2371.12	17.65	0.00	0.000	0.000	0.055
171	91.60	91.40	0.97131	41.4	0.05496	0.04	1.49	11.86	3534.66	2371.70	17.67	0.00	0.000	0.000	0.055
172	91.40	91.20	0.97329	41.3	0.05501	0.04	1.49	11.86	3538.77	2372.28	17.69	0.00	0.000	0.000	0.055
173	91.20	91.00	0.97528	41.2	0.05506	0.04	1.49	11.86	3542.88	2372.86	17.71	0.00	0.000	0.000	0.055
174	91.00	90.80	0.97726	41.1	0.05510	0.04	1.49	11.87	3546.99	2373.44	17.73	0.00	0.000	0.000	0.055
175	90.80	90.60	0.97925	41.1	0.05515	0.04	1.50	11.87	3551.09	2374.02	17.76	0.00	0.000	0.000	0.055
176	90.60	90.40	0.98123	41.0	0.05520	0.04	1.50	11.87	3555.19	2374.59	17.78	0.00	0.000	0.000	0.055
177	90.40	90.20	0.98321	40.9	0.05525	0.04	1.50	11.88	3559.29	2375.17	17.80	0.00	0.000	0.000	0.055

178	90.20	90.00	0.98520	40.8	0.05530	0.04	1.50	11.88	3563.38	2375.74	17.82	0.00	0.000	0.000	0.055
179	90.00	89.80	0.98718	40.7	0.05534	0.04	1.50	11.88	3567.47	2376.32	17.84	0.00	0.000	0.000	0.055
180	89.80	89.60	0.98917	40.6	0.05539	0.04	1.50	11.88	3571.56	2376.89	17.86	0.00	0.000	0.000	0.055
181	89.60	89.40	0.99115	40.6	0.05544	0.04	1.50	11.89	3575.64	2377.46	17.88	0.00	0.000	0.000	0.055
182	89.40	89.20	0.99314	40.5	0.05549	0.04	1.51	11.89	3579.72	2378.03	17.90	0.00	0.000	0.000	0.055
183	89.20	89.00	0.99512	40.4	0.05553	0.04	1.51	11.89	3583.79	2378.60	17.92	0.00	0.000	0.000	0.056
184	89.00	88.80	0.99710	40.3	0.05558	0.04	1.51	11.90	3587.86	2379.17	17.94	0.00	0.000	0.000	0.056
185	88.80	88.60	0.99909	40.2	0.05563	0.04	1.51	11.90	3591.93	2379.74	17.96	0.00	0.000	0.000	0.056
186	88.60	88.40	1.00107	40.2	0.05568	0.04	1.51	11.90	3596.00	2380.31	17.98	0.00	0.000	0.000	0.056
187	88.40	88.20	1.00306	40.1	0.05572	0.04	1.51	11.90	3600.06	2380.87	18.00	0.00	0.000	0.000	0.056
188	88.20	88.00	1.00504	40.0	0.05577	0.04	1.51	11.91	3604.11	2381.44	18.02	0.00	0.000	0.000	0.056
189	88.00	87.80	1.00703	39.9	0.05582	0.04	1.51	11.91	3608.17	2382.00	18.04	0.00	0.000	0.000	0.056
190	87.80	87.60	1.00901	39.8	0.05587	0.04	1.52	11.91	3612.22	2382.56	18.06	0.00	0.000	0.000	0.056
191	87.60	87.40	1.01099	39.8	0.05591	0.04	1.52	11.92	3616.27	2383.12	18.08	0.00	0.000	0.000	0.056
192	87.40	87.20	1.01298	39.7	0.05596	0.04	1.52	11.92	3620.31	2383.69	18.10	0.00	0.000	0.000	0.056
193	87.20	87.00	1.01496	39.6	0.05601	0.04	1.52	11.92	3624.35	2384.25	18.12	0.00	0.000	0.000	0.056
194	87.00	86.80	1.01695	39.5	0.05605	0.04	1.52	11.92	3628.39	2384.80	18.14	0.00	0.000	0.000	0.056
195	86.80	86.60	1.01893	39.5	0.05610	0.04	1.52	11.93	3632.42	2385.36	18.16	0.00	0.000	0.000	0.056
196	86.60	86.40	1.02091	39.4	0.05615	0.04	1.52	11.93	3636.45	2385.92	18.18	0.00	0.000	0.000	0.056
197	86.40	86.20	1.02290	39.3	0.05620	0.04	1.53	11.93	3640.48	2386.48	18.20	0.00	0.000	0.000	0.056
198	86.20	86.00	1.02488	39.2	0.05624	0.04	1.53	11.94	3644.50	2387.03	18.22	0.00	0.000	0.000	0.056
199	86.00	85.80	1.02687	39.1	0.05629	0.04	1.53	11.94	3648.52	2387.58	18.24	0.00	0.000	0.000	0.056
200	85.80	85.60	1.02885	39.1	0.05634	0.04	1.53	11.94	3652.54	2388.14	18.26	0.00	0.000	0.000	0.056
201	85.60	85.40	1.03084	39.0	0.05638	0.04	1.53	11.94	3656.55	2388.69	18.28	0.00	0.000	0.000	0.056
202	85.40	85.20	1.03282	38.9	0.05643	0.04	1.53	11.95	3660.56	2389.24	18.30	0.00	0.000	0.000	0.056
203	85.20	85.00	1.03480	38.8	0.05648	0.04	1.53	11.95	3664.57	2389.79	18.32	0.00	0.000	0.000	0.056
204	85.00	84.80	1.03679	38.8	0.05652	0.04	1.53	11.95	3668.57	2390.34	18.34	0.00	0.000	0.000	0.057
205	84.80	84.60	1.03877	38.7	0.05657	0.04	1.54	11.95	3672.57	2390.89	18.36	0.00	0.000	0.000	0.057
206	84.60	84.40	1.04076	38.6	0.05662	0.04	1.54	11.96	3676.57	2391.44	18.38	0.00	0.000	0.000	0.057
207	84.40	84.20	1.04274	38.6	0.05666	0.04	1.54	11.96	3680.57	2391.98	18.40	0.00	0.000	0.000	0.057
208	84.20	84.00	1.04473	38.5	0.05671	0.04	1.54	11.96	3684.56	2392.53	18.42	0.00	0.000	0.000	0.057
209	84.00	83.80	1.04671	38.4	0.05675	0.04	1.54	11.97	3688.54	2393.07	18.44	0.00	0.000	0.000	0.057
210	83.80	83.60	1.04869	38.3	0.05680	0.04	1.54	11.97	3692.53	2393.62	18.46	0.00	0.000	0.000	0.057
211	83.60	83.40	1.05068	38.3	0.05685	0.04	1.54	11.97	3696.51	2394.16	18.48	0.00	0.000	0.000	0.057
212	83.40	83.20	1.05266	38.2	0.05689	0.04	1.55	11.97	3700.49	2394.70	18.50	0.00	0.000	0.000	0.057
213	83.20	83.00	1.05465	38.1	0.05694	0.04	1.55	11.98	3704.46	2395.24	18.52	0.00	0.000	0.000	0.057
214	83.00	82.80	1.05663	38.0	0.05699	0.04	1.55	11.98	3708.43	2395.78	18.54	0.00	0.000	0.000	0.057
215	82.80	82.60	1.05862	38.0	0.05703	0.04	1.55	11.98	3712.40	2396.32	18.56	0.00	0.000	0.000	0.057
216	82.60	82.40	1.06060	37.9	0.05708	0.04	1.55	11.98	3716.36	2396.86	18.58	0.00	0.000	0.000	0.057
217	82.40	82.20	1.06258	37.8	0.05712	0.04	1.55	11.99	3720.33	2397.40	18.60	0.00	0.000	0.000	0.057
218	82.20	82.00	1.06457	37.8	0.05717	0.04	1.55	11.99	3724.28	2397.94	18.62	0.00	0.000	0.000	0.057
219	82.00	81.80	1.06655	37.7	0.05721	0.04	1.55	11.99	3728.24	2398.47	18.64	0.00	0.000	0.000	0.057
220	81.80	81.60	1.06854	37.6	0.05726	0.04	1.56	12.00	3732.19	2399.01	18.66	0.00	0.000	0.000	0.057
221	81.60	81.40	1.07052	37.6	0.05731	0.04	1.56	12.00	3736.14	2399.54	18.68	0.00	0.000	0.000	0.057
222	81.40	81.20	1.07251	37.5	0.05735	0.04	1.56	12.00	3740.09	2400.08	18.70	0.00	0.000	0.000	0.057
223	81.20	81.00	1.07449	37.4	0.05740	0.04	1.56	12.00	3744.03	2400.61	18.72	0.00	0.000	0.000	0.057
224	81.00	80.80	1.07647	37.3	0.05744	0.04	1.56	12.01	3747.97	2401.14	18.74	0.00	0.000	0.000	0.057
225	80.80	80.60	1.07846	37.3	0.05749	0.04	1.56	12.01	3751.90	2401.67	18.76	0.00	0.000	0.000	0.057
226	80.60	80.40	1.08044	37.2	0.05753	0.04	1.56	12.01	3755.84	2402.20	18.78	0.00	0.000	0.000	0.058
227	80.40	80.20	1.08243	37.1	0.05758	0.04	1.56	12.01	3759.77	2402.73	18.80	0.00	0.000	0.000	0.058
228	80.20	80.00	1.08441	37.1	0.05762	0.04	1.57	12.02	3763.69	2403.26	18.82	0.00	0.000	0.000	0.058

229	80.00	79.80	1.08639	37.0	0.05767	0.04	1.57	12.02	3767.62	2403.78	18.84	0.00	0.000	0.000	0.058
230	79.80	79.60	1.08838	36.9	0.05772	0.04	1.57	12.02	3771.54	2404.31	18.86	0.00	0.000	0.000	0.058
231	79.60	79.40	1.16636	41.0	0.05946	0.04	1.62	12.12	3923.28	2424.36	19.62	0.00	0.000	0.000	0.059
232	79.40	79.20	1.16835	40.9	0.05950	0.04	1.62	12.12	3927.08	2424.85	19.64	0.00	0.000	0.000	0.060
233	79.20	79.00	1.17033	40.8	0.05955	0.04	1.62	12.13	3930.88	2425.35	19.65	0.00	0.000	0.000	0.060
234	79.00	78.80	1.17232	40.8	0.05959	0.04	1.62	12.13	3934.68	2425.84	19.67	0.00	0.000	0.000	0.060
235	78.80	78.60	1.17430	40.7	0.05963	0.04	1.62	12.13	3938.47	2426.33	19.69	0.00	0.000	0.000	0.060
236	78.60	78.40	1.17628	40.6	0.05968	0.04	1.62	12.13	3942.27	2426.82	19.71	0.00	0.000	0.000	0.060
237	78.40	78.20	1.17827	40.6	0.05972	0.04	1.63	12.14	3946.05	2427.32	19.73	0.00	0.000	0.000	0.060
238	78.20	78.00	1.18025	40.5	0.05976	0.04	1.63	12.14	3949.84	2427.81	19.75	0.00	0.000	0.000	0.060
239	78.00	77.80	1.18224	40.4	0.05981	0.04	1.63	12.14	3953.63	2428.30	19.77	0.00	0.000	0.000	0.060
240	77.80	77.60	1.18422	40.4	0.05985	0.04	1.63	12.14	3957.41	2428.78	19.79	0.00	0.000	0.000	0.060
241	77.60	77.40	1.18621	40.3	0.05989	0.04	1.63	12.15	3961.19	2429.27	19.81	0.00	0.000	0.000	0.060

TOT			7.56		573008.56	400599.41
AVG		0.0523		1.43	11.71	16.75
CUM			12.03			

********** 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 *	ABOD#2 DECAY *	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 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da
71	111.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
72	111.200	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
73	111.000	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
74	110.800	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
75	110.600	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
76	110.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
77	110.200	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
78	110.000	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
79	109.800	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
80	109.600	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
81	109.400	9.07	1.08	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
82	109.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
83	109.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
84	108.800	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
85	108.600	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
86	108.400	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
87	108.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
88	108.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
89	107.800	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
90	107.600	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
91	107.400	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
92	107.200	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
93	107.000	9.07	1.07	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
94	106.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
95	106.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00
96	106.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00

97	106.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
98	106.000	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
99	105.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
100	105.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
101	105.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
102	105.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
103	105.000	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
104	104.800	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
105	104.600	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
106	104.400	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
107	104.200	9.07	1.06	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
108	104.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
109	103.800	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
110	103.600	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
111	103.400	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
112	103.200	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
113	103.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
114	102.800	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
115	102.600	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
116	102.400	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
117	102.200	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
118	102.000	9.07	1.05	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
119	101.800	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
120	101.600	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
121	101.400	9.07	1.02	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
122	101.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
123	101.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
124	100.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
125	100.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
126	100.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
127	100.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
128	100.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
129	99.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
130	99.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
131	99.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
132	99.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
133	99.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
134	98.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
135	98.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
136	98.400	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
137	98.200	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
138	98.000	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
139	97.800	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
140	97.600	9.07	1.01	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
141	97.400	9.07	1.00	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
142	97.200	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
143	97.000	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
144	96.800	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
145	96.600	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
146	96.400	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
147	96.200	9.07	0.99	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

148	96.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
149	95.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
150	95.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
151	95.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
152	95.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
153	95.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
154	94.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
155	94.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
156	94.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
157	94.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
158	94.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
159	93.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
160	93.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
161	93.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
162	93.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
163	93.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
164	92.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
165	92.600	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
166	92.400	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
167	92.200	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
168	92.000	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
169	91.800	9.07	0.98	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
170	91.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
171	91.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
172	91.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
173	91.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
174	90.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
175	90.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
176	90.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
177	90.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
178	90.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
179	89.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
180	89.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
181	89.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
182	89.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
183	89.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
184	88.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
185	88.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
186	88.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
187	88.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
188	88.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
189	87.800	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
190	87.600	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
191	87.400	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
192	87.200	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
193	87.000	9.07	0.97	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
194	86.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
195	86.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
196	86.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
197	86.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
198	86.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00

199	85.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
200	85.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
201	85.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
202	85.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
203	85.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
204	84.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
205	84.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
206	84.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
207	84.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
208	84.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
209	83.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
210	83.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
211	83.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
212	83.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
213	83.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
214	82.800	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
215	82.600	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
216	82.400	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
217	82.200	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
218	82.000	9.07	0.96	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
219	81.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
220	81.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
221	81.400	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
222	81.200	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
223	81.000	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
224	80.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
225	80.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
226	80.400	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
227	80.200	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
228	80.000	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
229	79.800	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
230	79.600	9.07	0.95	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
231	79.400	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
232	79.200	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
233	79.000	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
234	78.800	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
235	78.601	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
236	78.401	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
237	78.201	9.07	0.94	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
238	78.001	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
239	77.801	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
240	77.601	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
241	77.401	9.07	0.93	0.06	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				1.00	0.06	0.00	0.00	0.00	0.00	0.00	2.16		0.02	0.00	0.11	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
71	111.400	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
72	111.200	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
73	111.000	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
74	110.800	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
75	110.600	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
76	110.400	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
77	110.200	20.10	0.00	0.00	0.00	7.59	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.47	0.00	20.00	0.00	0.	0.00
78	110.000	20.10	0.00	0.00	0.00	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
79	109.800	20.10	0.00	0.00	0.00	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
80	109.600	20.10	0.00	0.00	0.00	7.58	1.98	0.00	1.98	0.00	1.27	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
81	109.400	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.27	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
82	109.200	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
83	109.000	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
84	108.800	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
85	108.600	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
86	108.400	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
87	108.200	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
88	108.000	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
89	107.800	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
90	107.600	20.10	0.00	0.00	0.00	7.58	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
91	107.400	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
92	107.200	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
93	107.000	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
94	106.800	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
95	106.600	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
96	106.400	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
97	106.200	20.10	0.00	0.00	0.00	7.58	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
98	106.000	20.10	0.00	0.00	0.00	7.59	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
99	105.800	20.10	0.00	0.00	0.00	7.59	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
100	105.600	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
101	105.400	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
102	105.200	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
103	105.000	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
104	104.800	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
105	104.600	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
106	104.400	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
107	104.200	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
108	104.000	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
109	103.800	20.10	0.00	0.00	0.00	7.59	1.95	0.00	1.95	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
110	103.600	20.10	0.00	0.00	0.00	7.59	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
111	103.400	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
112	103.200	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
113	103.000	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
114	102.800	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
115	102.600	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
116	102.400	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
117	102.200	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
118	102.000	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.29	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00

119	101.800	20.10	0.00	0.00	0.00	7.36	1.98	0.00	1.98	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
120	101.600	20.10	0.00	0.00	0.00	7.38	1.98	0.00	1.98	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
121	101.400	20.10	0.00	0.00	0.00	7.39	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
122	101.200	20.10	0.00	0.00	0.00	7.41	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
123	101.000	20.10	0.00	0.00	0.00	7.42	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
124	100.800	20.10	0.00	0.00	0.00	7.43	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
125	100.600	20.10	0.00	0.00	0.00	7.44	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
126	100.400	20.10	0.00	0.00	0.00	7.46	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
127	100.200	20.10	0.00	0.00	0.00	7.47	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
128	100.000	20.10	0.00	0.00	0.00	7.48	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
129	99.800	20.10	0.00	0.00	0.00	7.49	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
130	99.600	20.10	0.00	0.00	0.00	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
131	99.400	20.10	0.00	0.00	0.00	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
132	99.200	20.10	0.00	0.00	0.00	7.51	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
133	99.000	20.10	0.00	0.00	0.00	7.52	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
134	98.800	20.10	0.00	0.00	0.00	7.53	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
135	98.600	20.10	0.00	0.00	0.00	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
136	98.400	20.10	0.00	0.00	0.00	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
137	98.200	20.10	0.00	0.00	0.00	7.55	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
138	98.000	20.10	0.00	0.00	0.00	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
139	97.800	20.10	0.00	0.00	0.00	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
140	97.600	20.10	0.00	0.00	0.00	7.57	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
141	97.400	20.10	0.00	0.00	0.00	7.58	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
142	97.200	20.10	0.00	0.00	0.00	7.41	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
143	97.000	20.10	0.00	0.00	0.00	7.43	1.97	0.00	1.97	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
144	96.800	20.10	0.00	0.00	0.00	7.44	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
145	96.600	20.10	0.00	0.00	0.00	7.45	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.48	0.00	20.00	0.00	0.	0.00
146	96.400	20.10	0.00	0.00	0.00	7.47	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
147	96.200	20.10	0.00	0.00	0.00	7.48	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
148	96.000	20.10	0.00	0.00	0.00	7.49	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
149	95.800	20.10	0.00	0.00	0.00	7.50	1.96	0.00	1.96	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
150	95.600	20.10	0.00	0.00	0.00	7.51	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
151	95.400	20.10	0.00	0.00	0.00	7.52	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
152	95.200	20.10	0.00	0.00	0.00	7.53	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
153	95.000	20.10	0.00	0.00	0.00	7.54	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
154	94.800	20.10	0.00	0.00	0.00	7.55	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
155	94.600	20.10	0.00	0.00	0.00	7.56	1.95	0.00	1.95	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
156	94.400	20.10	0.00	0.00	0.00	7.57	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
157	94.200	20.10	0.00	0.00	0.00	7.57	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
158	94.000	20.10	0.00	0.00	0.00	7.58	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
159	93.800	20.10	0.00	0.00	0.00	7.59	1.94	0.00	1.94	0.00	1.28	0.20	0.00	1.49	0.00	20.00	0.00	0.	0.00
160	93.600	20.10	0.00	0.00	0.00	7.59	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
161	93.400	20.10	0.00	0.00	0.00	7.60	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
162	93.200	20.10	0.00	0.00	0.00	7.61	1.94	0.00	1.94	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
163	93.000	20.10	0.00	0.00	0.00	7.61	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
164	92.800	20.10	0.00	0.00	0.00	7.62	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
165	92.600	20.10	0.00	0.00	0.00	7.63	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
166	92.400	20.10	0.00	0.00	0.00	7.63	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
167	92.200	20.10	0.00	0.00	0.00	7.64	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
168	92.000	20.10	0.00	0.00	0.00	7.64	1.93	0.00	1.93	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
169	91.800	20.10	0.00	0.00	0.00	7.65	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00

170	91.600	20.10	0.00	0.00	0.00	7.65	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
171	91.400	20.10	0.00	0.00	0.00	7.66	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
172	91.200	20.10	0.00	0.00	0.00	7.66	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
173	91.000	20.10	0.00	0.00	0.00	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
174	90.800	20.10	0.00	0.00	0.00	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
175	90.600	20.10	0.00	0.00	0.00	7.67	1.92	0.00	1.92	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
176	90.400	20.10	0.00	0.00	0.00	7.68	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
177	90.200	20.10	0.00	0.00	0.00	7.68	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
178	90.000	20.10	0.00	0.00	0.00	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
179	89.800	20.10	0.00	0.00	0.00	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
180	89.600	20.10	0.00	0.00	0.00	7.69	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
181	89.400	20.10	0.00	0.00	0.00	7.70	1.91	0.00	1.91	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
182	89.200	20.10	0.00	0.00	0.00	7.70	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
183	89.000	20.10	0.00	0.00	0.00	7.70	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
184	88.800	20.10	0.00	0.00	0.00	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
185	88.600	20.10	0.00	0.00	0.00	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
186	88.400	20.10	0.00	0.00	0.00	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
187	88.200	20.10	0.00	0.00	0.00	7.71	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
188	88.000	20.10	0.00	0.00	0.00	7.72	1.90	0.00	1.90	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
189	87.800	20.10	0.00	0.00	0.00	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
190	87.600	20.10	0.00	0.00	0.00	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
191	87.400	20.10	0.00	0.00	0.00	7.72	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
192	87.200	20.10	0.00	0.00	0.00	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
193	87.000	20.10	0.00	0.00	0.00	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
194	86.800	20.10	0.00	0.00	0.00	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
195	86.600	20.10	0.00	0.00	0.00	7.73	1.89	0.00	1.89	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
196	86.400	20.10	0.00	0.00	0.00	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
197	86.200	20.10	0.00	0.00	0.00	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
198	86.000	20.10	0.00	0.00	0.00	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
199	85.800	20.10	0.00	0.00	0.00	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
200	85.600	20.10	0.00	0.00	0.00	7.74	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
201	85.400	20.10	0.00	0.00	0.00	7.75	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
202	85.200	20.10	0.00	0.00	0.00	7.75	1.88	0.00	1.88	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
203	85.000	20.10	0.00	0.00	0.00	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
204	84.800	20.10	0.00	0.00	0.00	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
205	84.600	20.10	0.00	0.00	0.00	7.75	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
206	84.400	20.10	0.00	0.00	0.00	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
207	84.200	20.10	0.00	0.00	0.00	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
208	84.000	20.10	0.00	0.00	0.00	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
209	83.800	20.10	0.00	0.00	0.00	7.76	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
210	83.600	20.10	0.00	0.00	0.00	7.76	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
211	83.400	20.10	0.00	0.00	0.00	7.76	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
212	83.200	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
213	83.000	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
214	82.800	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
215	82.600	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
216	82.400	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
217	82.200	20.10	0.00	0.00	0.00	7.77	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
218	82.000	20.10	0.00	0.00	0.00	7.77	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
219	81.800	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
220	81.600	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00

221	81.400	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
222	81.200	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
223	81.000	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
224	80.800	20.10	0.00	0.00	0.00	7.78	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
225	80.600	20.10	0.00	0.00	0.00	7.78	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
226	80.400	20.10	0.00	0.00	0.00	7.78	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
227	80.200	20.10	0.00	0.00	0.00	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
228	80.000	20.10	0.00	0.00	0.00	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
229	79.800	20.10	0.00	0.00	0.00	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
230	79.600	20.10	0.00	0.00	0.00	7.79	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
231	79.400	20.10	0.00	0.00	0.00	7.62	1.87	0.00	1.87	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
232	79.200	20.10	0.00	0.00	0.00	7.63	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
233	79.000	20.10	0.00	0.00	0.00	7.64	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
234	78.800	20.10	0.00	0.00	0.00	7.65	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
235	78.601	20.10	0.00	0.00	0.00	7.66	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
236	78.401	20.10	0.00	0.00	0.00	7.66	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
237	78.201	20.10	0.00	0.00	0.00	7.67	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
238	78.001	20.10	0.00	0.00	0.00	7.68	1.86	0.00	1.86	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
239	77.801	20.10	0.00	0.00	0.00	7.68	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
240	77.601	20.10	0.00	0.00	0.00	7.69	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
241	77.401	20.10	0.00	0.00	0.00	7.70	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 3 Black Lake Bayou Winter Projection

********** 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
242	UPR RCH	1.18621	20.10	0.00	0.00	0.00	7.70	1.85	0.00	1.85	0.00	1.28	0.21	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00198	20.10	0.00	0.00	0.00	5.13	1.76	0.00		1.76	0.18	0.05	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
242	77.40	77.20	1.18819	40.2	0.04701	0.05	1.79	14.09	5054.78	2817.70	25.27	0.00	0.000	0.000	0.047
243	77.20	77.00	1.19017	40.2	0.04705	0.05	1.80	14.09	5059.59	2818.27	25.30	0.00	0.000	0.000	0.047
244	77.00	76.80	1.19216	40.1	0.04708	0.05	1.80	14.09	5064.40	2818.83	25.32	0.00	0.000	0.000	0.047
245	76.80	76.60	1.19414	40.0	0.04711	0.05	1.80	14.10	5069.20	2819.39	25.35	0.00	0.000	0.000	0.047
246	76.60	76.40	1.19613	40.0	0.04715	0.05	1.80	14.10	5074.00	2819.96	25.37	0.00	0.000	0.000	0.047
247	76.40	76.20	1.19811	39.9	0.04718	0.05	1.80	14.10	5078.80	2820.52	25.39	0.00	0.000	0.000	0.047
248	76.20	76.00	1.20010	39.8	0.04721	0.05	1.80	14.11	5083.59	2821.08	25.42	0.00	0.000	0.000	0.047
249	76.00	75.80	1.20208	39.8	0.04725	0.05	1.80	14.11	5088.38	2821.64	25.44	0.00	0.000	0.000	0.047
250	75.80	75.60	1.20407	39.7	0.04728	0.05	1.80	14.11	5093.17	2822.20	25.47	0.00	0.000	0.000	0.047

251	75.60	75.40	1.20605	39.6	0.04732	0.05	1.81	14.11	5097.95	2822.75	25.49	0.00	0.000	0.000	0.047
252	75.40	75.20	1.20803	39.6	0.04735	0.05	1.81	14.12	5102.73	2823.31	25.51	0.00	0.000	0.000	0.047
253	75.20	75.00	1.21002	39.5	0.04738	0.05	1.81	14.12	5107.50	2823.87	25.54	0.00	0.000	0.000	0.047
254	75.00	74.80	1.21200	39.4	0.04742	0.05	1.81	14.12	5112.28	2824.42	25.56	0.00	0.000	0.000	0.047
255	74.80	74.60	1.21399	39.4	0.04745	0.05	1.81	14.12	5117.05	2824.98	25.59	0.00	0.000	0.000	0.047
256	74.60	74.40	1.21597	39.3	0.04748	0.05	1.81	14.13	5121.81	2825.53	25.61	0.00	0.000	0.000	0.047
257	74.40	74.20	1.21796	39.2	0.04752	0.05	1.81	14.13	5126.58	2826.08	25.63	0.00	0.000	0.000	0.048
258	74.20	74.00	1.21994	39.2	0.04755	0.05	1.82	14.13	5131.34	2826.64	25.66	0.00	0.000	0.000	0.048
259	74.00	73.80	1.22193	39.1	0.04758	0.05	1.82	14.14	5136.09	2827.19	25.68	0.00	0.000	0.000	0.048
260	73.80	73.60	1.22391	39.1	0.04762	0.05	1.82	14.14	5140.84	2827.74	25.70	0.00	0.000	0.000	0.048
261	73.60	73.40	1.22590	39.0	0.04765	0.05	1.82	14.14	5145.59	2828.29	25.73	0.00	0.000	0.000	0.048
262	73.40	73.20	1.22788	38.9	0.04768	0.05	1.82	14.14	5150.34	2828.84	25.75	0.00	0.000	0.000	0.048
263	73.20	73.00	1.22986	38.9	0.04771	0.05	1.82	14.15	5155.08	2829.38	25.78	0.00	0.000	0.000	0.048
264	73.00	72.80	1.23185	38.8	0.04775	0.05	1.82	14.15	5159.82	2829.93	25.80	0.00	0.000	0.000	0.048
265	72.80	72.60	1.23383	38.7	0.04778	0.05	1.82	14.15	5164.56	2830.48	25.82	0.00	0.000	0.000	0.048
266	72.60	72.40	1.23582	38.7	0.04781	0.05	1.83	14.16	5169.29	2831.02	25.85	0.00	0.000	0.000	0.048
267	72.40	72.20	1.23780	38.6	0.04785	0.05	1.83	14.16	5174.02	2831.57	25.87	0.00	0.000	0.000	0.048
268	72.20	72.00	1.23979	38.6	0.04788	0.05	1.83	14.16	5178.75	2832.11	25.89	0.00	0.000	0.000	0.048
269	72.00	71.80	1.24177	38.5	0.04791	0.05	1.83	14.16	5183.47	2832.66	25.92	0.00	0.000	0.000	0.048
270	71.80	71.60	1.24376	38.4	0.04795	0.05	1.83	14.17	5188.19	2833.20	25.94	0.00	0.000	0.000	0.048
271	71.60	71.40	1.24574	38.4	0.04798	0.05	1.83	14.17	5192.91	2833.74	25.96	0.00	0.000	0.000	0.048
272	71.40	71.20	1.24772	38.3	0.04801	0.05	1.83	14.17	5197.62	2834.28	25.99	0.00	0.000	0.000	0.048
273	71.20	71.00	1.24971	38.2	0.04804	0.05	1.84	14.17	5202.33	2834.82	26.01	0.00	0.000	0.000	0.048
274	71.00	70.80	1.25169	38.2	0.04808	0.05	1.84	14.18	5207.04	2835.36	26.04	0.00	0.000	0.000	0.048
275	70.80	70.60	1.25368	38.1	0.04811	0.05	1.84	14.18	5211.74	2835.90	26.06	0.00	0.000	0.000	0.048
276	70.60	70.40	1.25566	38.1	0.04814	0.05	1.84	14.18	5216.45	2836.44	26.08	0.00	0.000	0.000	0.048
277	70.40	70.20	1.25765	38.0	0.04818	0.05	1.84	14.18	5221.14	2836.98	26.11	0.00	0.000	0.000	0.048
278	70.20	70.00	1.25963	37.9	0.04821	0.05	1.84	14.19	5225.84	2837.52	26.13	0.00	0.000	0.000	0.048
279	70.00	69.80	1.26162	37.9	0.04824	0.05	1.84	14.19	5230.53	2838.05	26.15	0.00	0.000	0.000	0.048
280	69.80	69.60	1.26360	37.8	0.04827	0.05	1.84	14.19	5235.22	2838.59	26.18	0.00	0.000	0.000	0.048
281	69.60	69.40	1.26558	37.8	0.04831	0.05	1.85	14.20	5239.90	2839.12	26.20	0.00	0.000	0.000	0.048
282	69.40	69.20	1.26757	37.7	0.04834	0.05	1.85	14.20	5244.58	2839.66	26.22	0.00	0.000	0.000	0.048
283	69.20	69.00	1.26955	37.7	0.04837	0.05	1.85	14.20	5249.26	2840.19	26.25	0.00	0.000	0.000	0.048
284	69.00	68.80	1.27154	37.6	0.04840	0.05	1.85	14.20	5253.94	2840.72	26.27	0.00	0.000	0.000	0.048
285	68.80	68.60	1.27352	37.5	0.04844	0.05	1.85	14.21	5258.61	2841.25	26.29	0.00	0.000	0.000	0.048
286	68.60	68.40	1.27551	37.5	0.04847	0.05	1.85	14.21	5263.28	2841.78	26.32	0.00	0.000	0.000	0.048
287	68.40	68.20	1.27749	37.4	0.04850	0.05	1.85	14.21	5267.95	2842.31	26.34	0.00	0.000	0.000	0.049
288	68.20	68.00	1.27948	37.4	0.04853	0.05	1.85	14.21	5272.61	2842.84	26.36	0.00	0.000	0.000	0.049
289	68.00	67.80	1.28146	37.3	0.04857	0.05	1.86	14.22	5277.27	2843.37	26.39	0.00	0.000	0.000	0.049
290	67.80	67.60	1.28345	37.2	0.04860	0.05	1.86	14.22	5281.92	2843.90	26.41	0.00	0.000	0.000	0.049
291	67.60	67.40	1.28543	37.2	0.04863	0.05	1.86	14.22	5286.58	2844.43	26.43	0.00	0.000	0.000	0.049
292	67.40	67.20	1.28741	37.1	0.04866	0.05	1.86	14.22	5291.23	2844.95	26.46	0.00	0.000	0.000	0.049
293	67.20	67.00	1.28940	37.1	0.04869	0.05	1.86	14.23	5295.88	2845.48	26.48	0.00	0.000	0.000	0.049
294	67.00	66.80	1.29138	37.0	0.04873	0.05	1.86	14.23	5300.52	2846.01	26.50	0.00	0.000	0.000	0.049
295	66.80	66.60	1.29337	37.0	0.04876	0.05	1.86	14.23	5305.16	2846.53	26.53	0.00	0.000	0.000	0.049
296	66.60	66.40	1.29535	36.9	0.04879	0.05	1.87	14.24	5309.80	2847.05	26.55	0.00	0.000	0.000	0.049
297	66.40	66.20	1.29734	36.8	0.04882	0.05	1.87	14.24	5314.44	2847.58	26.57	0.00	0.000	0.000	0.049
298	66.20	66.00	1.29932	36.8	0.04886	0.05	1.87	14.24	5319.07	2848.10	26.60	0.00	0.000	0.000	0.049
299	66.00	65.80	1.30131	36.7	0.04889	0.05	1.87	14.24	5323.70	2848.62	26.62	0.00	0.000	0.000	0.049
300	65.80	65.60	1.30329	36.7	0.04892	0.05	1.87	14.25	5328.32	2849.14	26.64	0.00	0.000	0.000	0.049
301	65.60	65.40	1.30527	36.6	0.04895	0.05	1.87	14.25	5332.95	2849.66	26.66	0.00	0.000	0.000	0.049

302	65.40	65.20	1.30726	36.6	0.04898	0.05	1.87	14.25	5337.57	2850.18	26.69	0.00	0.000	0.000	0.049
303	65.20	65.00	1.30924	36.5	0.04902	0.05	1.87	14.25	5342.18	2850.70	26.71	0.00	0.000	0.000	0.049
304	65.00	64.80	1.31123	36.5	0.04905	0.05	1.88	14.26	5346.80	2851.22	26.73	0.00	0.000	0.000	0.049
305	64.80	64.60	1.31321	36.4	0.04908	0.05	1.88	14.26	5351.41	2851.74	26.76	0.00	0.000	0.000	0.049
306	64.60	64.40	1.31520	36.3	0.04911	0.05	1.88	14.26	5356.02	2852.25	26.78	0.00	0.000	0.000	0.049
307	64.40	64.20	1.31718	36.3	0.04914	0.05	1.88	14.26	5360.62	2852.77	26.80	0.00	0.000	0.000	0.049
308	64.20	64.00	1.31917	36.2	0.04917	0.05	1.88	14.27	5365.22	2853.28	26.83	0.00	0.000	0.000	0.049
309	64.00	63.80	1.32115	36.2	0.04921	0.05	1.88	14.27	5369.82	2853.80	26.85	0.00	0.000	0.000	0.049
310	63.80	63.60	1.32313	36.1	0.04924	0.05	1.88	14.27	5374.42	2854.31	26.87	0.00	0.000	0.000	0.049
311	63.60	63.40	1.32512	36.1	0.04927	0.05	1.88	14.27	5379.01	2854.83	26.90	0.00	0.000	0.000	0.049
312	63.40	63.20	1.32710	36.0	0.04930	0.05	1.89	14.28	5383.60	2855.34	26.92	0.00	0.000	0.000	0.049
313	63.20	63.00	1.32909	36.0	0.04933	0.05	1.89	14.28	5388.19	2855.85	26.94	0.00	0.000	0.000	0.049
314	63.00	62.80	1.33107	35.9	0.04937	0.05	1.89	14.28	5392.77	2856.36	26.96	0.00	0.000	0.000	0.049
315	62.80	62.60	1.33306	35.9	0.04940	0.05	1.89	14.28	5397.35	2856.87	26.99	0.00	0.000	0.000	0.049
316	62.60	62.40	1.33504	35.8	0.04943	0.05	1.89	14.29	5401.93	2857.38	27.01	0.00	0.000	0.000	0.049
317	62.40	62.20	1.33703	35.8	0.04946	0.05	1.89	14.29	5406.51	2857.89	27.03	0.00	0.000	0.000	0.049
318	62.20	62.00	1.33901	35.7	0.04949	0.05	1.89	14.29	5411.08	2858.40	27.06	0.00	0.000	0.000	0.049
319	62.00	61.80	1.34099	35.6	0.04952	0.05	1.89	14.29	5415.65	2858.91	27.08	0.00	0.000	0.000	0.050
320	61.80	61.60	1.34298	35.6	0.04955	0.05	1.90	14.30	5420.22	2859.42	27.10	0.00	0.000	0.000	0.050
321	61.60	61.40	1.34496	35.5	0.04959	0.05	1.90	14.30	5424.78	2859.92	27.12	0.00	0.000	0.000	0.050
322	61.40	61.20	1.34695	35.5	0.04962	0.05	1.90	14.30	5429.34	2860.43	27.15	0.00	0.000	0.000	0.050
323	61.20	61.00	1.34893	35.4	0.04965	0.05	1.90	14.30	5433.90	2860.93	27.17	0.00	0.000	0.000	0.050
324	61.00	60.80	1.35092	35.4	0.04968	0.05	1.90	14.31	5438.45	2861.44	27.19	0.00	0.000	0.000	0.050
325	60.80	60.60	1.35290	35.3	0.04971	0.05	1.90	14.31	5443.01	2861.94	27.22	0.00	0.000	0.000	0.050
326	60.60	60.40	1.35489	35.3	0.04974	0.05	1.90	14.31	5447.56	2862.45	27.24	0.00	0.000	0.000	0.050
327	60.40	60.20	1.35687	35.2	0.04977	0.05	1.90	14.31	5452.10	2862.95	27.26	0.00	0.000	0.000	0.050
328	60.20	60.00	1.35886	35.2	0.04981	0.05	1.91	14.32	5456.65	2863.45	27.28	0.00	0.000	0.000	0.050
329	60.00	59.80	1.36084	35.1	0.04984	0.05	1.91	14.32	5461.19	2863.95	27.31	0.00	0.000	0.000	0.050
330	59.80	59.60	1.36282	35.1	0.04987	0.05	1.91	14.32	5465.73	2864.45	27.33	0.00	0.000	0.000	0.050
331	59.60	59.40	1.36481	35.0	0.04990	0.05	1.91	14.32	5470.26	2864.95	27.35	0.00	0.000	0.000	0.050
332	59.40	59.20	1.36679	35.0	0.04993	0.05	1.91	14.33	5474.79	2865.45	27.37	0.00	0.000	0.000	0.050
333	59.20	59.00	1.36878	34.9	0.04996	0.05	1.91	14.33	5479.32	2865.95	27.40	0.00	0.000	0.000	0.050
334	59.00	58.80	1.37076	34.9	0.04999	0.05	1.91	14.33	5483.85	2866.45	27.42	0.00	0.000	0.000	0.050
335	58.80	58.60	1.37275	34.8	0.05002	0.05	1.91	14.33	5488.37	2866.95	27.44	0.00	0.000	0.000	0.050
336	58.60	58.40	1.37473	34.8	0.05005	0.05	1.92	14.34	5492.89	2867.45	27.46	0.00	0.000	0.000	0.050
337	58.40	58.20	1.37672	34.7	0.05009	0.05	1.92	14.34	5497.41	2867.94	27.49	0.00	0.000	0.000	0.050
338	58.20	58.00	1.37870	34.7	0.05012	0.05	1.92	14.34	5501.93	2868.44	27.51	0.00	0.000	0.000	0.050
339	58.00	57.80	1.38068	34.6	0.05015	0.05	1.92	14.34	5506.44	2868.93	27.53	0.00	0.000	0.000	0.050
340	57.80	57.60	1.38267	34.6	0.05018	0.05	1.92	14.35	5510.95	2869.43	27.55	0.00	0.000	0.000	0.050
341	57.60	57.40	1.38465	34.5	0.05021	0.05	1.92	14.35	5515.46	2869.92	27.58	0.00	0.000	0.000	0.050
342	57.40	57.20	1.38664	34.5	0.05024	0.05	1.92	14.35	5519.96	2870.41	27.60	0.00	0.000	0.000	0.050
343	57.20	57.00	1.38862	34.4	0.05027	0.05	1.92	14.35	5524.46	2870.91	27.62	0.00	0.000	0.000	0.050
344	57.00	56.80	1.39061	34.4	0.05030	0.05	1.93	14.36	5528.96	2871.40	27.64	0.00	0.000	0.000	0.050
345	56.80	56.60	1.39259	34.3	0.05033	0.05	1.93	14.36	5533.46	2871.89	27.67	0.00	0.000	0.000	0.050
346	56.60	56.40	1.39458	34.3	0.05036	0.05	1.93	14.36	5537.95	2872.38	27.69	0.00	0.000	0.000	0.050
347	56.40	56.20	1.39656	34.2	0.05040	0.05	1.93	14.36	5542.44	2872.87	27.71	0.00	0.000	0.000	0.050
348	56.20	56.00	1.39854	34.2	0.05043	0.05	1.93	14.37	5546.93	2873.36	27.73	0.00	0.000	0.000	0.050
349	56.00	55.80	1.40053	34.1	0.05046	0.05	1.93	14.37	5551.42	2873.85	27.76	0.00	0.000	0.000	0.050
350	55.80	55.60	1.40251	34.1	0.05049	0.05	1.93	14.37	5555.90	2874.34	27.78	0.00	0.000	0.000	0.050
351	55.60	55.40	1.40450	34.0	0.05052	0.05	1.93	14.37	5560.38	2874.83	27.80	0.00	0.000	0.000	0.051
352	55.40	55.20	1.40648	34.0	0.05055	0.05	1.94	14.38	5564.85	2875.31	27.82	0.00	0.000	0.000	0.051

353	55.20	55.00	1.40847	33.9	0.05058	0.05	1.94	14.38	5569.33	2875.80	27.85	0.00	0.000	0.000	0.051
354	55.00	54.80	1.41045	33.9	0.05061	0.05	1.94	14.38	5573.80	2876.29	27.87	0.00	0.000	0.000	0.051
355	54.80	54.60	1.41244	33.8	0.05064	0.05	1.94	14.38	5578.27	2876.77	27.89	0.00	0.000	0.000	0.051
356	54.60	54.40	1.41442	33.8	0.05067	0.05	1.94	14.39	5582.73	2877.26	27.91	0.00	0.000	0.000	0.051
357	54.40	54.20	1.41640	33.7	0.05070	0.05	1.94	14.39	5587.20	2877.74	27.94	0.00	0.000	0.000	0.051
358	54.20	54.00	1.41839	33.7	0.05073	0.05	1.94	14.39	5591.66	2878.22	27.96	0.00	0.000	0.000	0.051
359	54.00	53.80	1.42037	33.7	0.05076	0.05	1.94	14.39	5596.12	2878.71	27.98	0.00	0.000	0.000	0.051
360	53.80	53.60	1.42236	33.6	0.05079	0.05	1.95	14.40	5600.57	2879.19	28.00	0.00	0.000	0.000	0.051
361	53.60	53.40	1.42434	33.6	0.05082	0.05	1.95	14.40	5605.02	2879.67	28.03	0.00	0.000	0.000	0.051
362	53.40	53.20	1.42633	33.5	0.05085	0.05	1.95	14.40	5609.47	2880.15	28.05	0.00	0.000	0.000	0.051
363	53.20	53.00	1.42831	33.5	0.05088	0.05	1.95	14.40	5613.92	2880.63	28.07	0.00	0.000	0.000	0.051
364	53.00	52.80	1.43030	33.4	0.05092	0.05	1.95	14.41	5618.37	2881.11	28.09	0.00	0.000	0.000	0.051
365	52.80	52.60	1.43228	33.4	0.05095	0.05	1.95	14.41	5622.81	2881.59	28.11	0.00	0.000	0.000	0.051
366	52.60	52.40	1.43427	33.3	0.05098	0.05	1.95	14.41	5627.25	2882.07	28.14	0.00	0.000	0.000	0.051
367	52.40	52.20	1.43625	33.3	0.05101	0.05	1.95	14.41	5631.68	2882.55	28.16	0.00	0.000	0.000	0.051
368	52.20	52.00	1.43823	33.2	0.05104	0.05	1.95	14.42	5636.12	2883.03	28.18	0.00	0.000	0.000	0.051
369	52.00	51.80	1.44022	33.2	0.05107	0.05	1.96	14.42	5640.55	2883.50	28.20	0.00	0.000	0.000	0.051
370	51.80	51.60	1.44220	33.1	0.05110	0.05	1.96	14.42	5644.98	2883.98	28.22	0.00	0.000	0.000	0.051
371	51.60	51.40	1.44419	33.1	0.05113	0.05	1.96	14.42	5649.40	2884.46	28.25	0.00	0.000	0.000	0.051
372	51.40	51.20	1.44617	33.1	0.05116	0.05	1.96	14.42	5653.83	2884.93	28.27	0.00	0.000	0.000	0.051
373	51.20	51.00	1.44816	33.0	0.05119	0.05	1.96	14.43	5658.25	2885.41	28.29	0.00	0.000	0.000	0.051
374	51.00	50.80	1.45014	33.0	0.05122	0.05	1.96	14.43	5662.67	2885.88	28.31	0.00	0.000	0.000	0.051
375	50.80	50.60	1.45213	32.9	0.05125	0.05	1.96	14.43	5667.08	2886.35	28.34	0.00	0.000	0.000	0.051
376	50.60	50.40	1.45411	32.9	0.05128	0.05	1.96	14.43	5671.50	2886.83	28.36	0.00	0.000	0.000	0.051

TOT			6.36		724620.88	385192.88
AVG		0.0492		1.88	14.27	26.84
CUM			18.38			

********** 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	NH3 SRCE *	NH3 RATE 1/da	SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
242	77.200	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
243	77.000	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
244	76.800	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
245	76.600	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
246	76.400	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
247	76.200	9.07	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
248	76.000	9.06	0.75	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
249	75.800	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
250	75.600	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
251	75.400	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
252	75.200	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
253	75.000	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
254	74.800	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
255	74.600	9.06	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.02	0.00	0.11	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
256	74.400	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00

257	74.200	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
258	74.000	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
259	73.800	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
260	73.600	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
261	73.400	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
262	73.200	9.05	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
263	73.000	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
264	72.800	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
265	72.600	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
266	72.400	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
267	72.200	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
268	72.000	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
269	71.800	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
270	71.600	9.04	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
271	71.400	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.69	2.69	2.69	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
272	71.200	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
273	71.000	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
274	70.800	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
275	70.600	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
276	70.400	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
277	70.200	9.03	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
278	70.000	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
279	69.800	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
280	69.600	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
281	69.400	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
282	69.200	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
283	69.000	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
284	68.800	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
285	68.600	9.02	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
286	68.400	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
287	68.200	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
288	68.000	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
289	67.800	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
290	67.600	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
291	67.400	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
292	67.200	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
293	67.000	9.01	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
294	66.800	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
295	66.600	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
296	66.400	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
297	66.200	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
298	66.000	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
299	65.800	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
300	65.600	9.00	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
301	65.400	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
302	65.200	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
303	65.000	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
304	64.800	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
305	64.600	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
306	64.400	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
307	64.200	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00

308	64.000	8.99	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
309	63.800	8.98	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
310	63.600	8.98	0.74	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
311	63.400	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.02	0.00	0.11	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
312	63.200	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
313	63.000	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
314	62.800	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
315	62.600	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
316	62.400	8.98	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
317	62.200	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
318	62.000	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
319	61.800	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
320	61.600	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
321	61.400	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
322	61.200	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
323	61.000	8.97	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
324	60.800	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
325	60.600	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
326	60.400	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
327	60.200	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
328	60.000	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.11	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
329	59.800	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
330	59.600	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
331	59.400	8.96	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
332	59.200	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
333	59.000	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
334	58.800	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
335	58.600	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
336	58.400	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
337	58.200	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
338	58.000	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
339	57.800	8.95	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
340	57.600	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
341	57.400	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
342	57.200	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
343	57.000	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
344	56.800	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
345	56.600	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
346	56.400	8.94	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
347	56.200	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
348	56.000	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
349	55.800	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
350	55.600	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
351	55.400	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
352	55.200	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
353	55.000	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
354	54.800	8.93	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
355	54.600	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
356	54.400	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
357	54.200	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
358	54.000	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00

359	53.800	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
360	53.600	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
361	53.400	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
362	53.200	8.92	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
363	53.000	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
364	52.800	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
365	52.600	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.02	0.00	0.12	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
366	52.400	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
367	52.200	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
368	52.000	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
369	51.800	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
370	51.600	8.91	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
371	51.400	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
372	51.200	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
373	51.000	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
374	50.800	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
375	50.600	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
376	50.400	8.90	0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.73	0.06	0.00	0.00	0.00	0.00	0.00	2.64			0.02	0.00	0.11	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
242	77.200	20.11	0.00	0.00	0.00	7.68	1.85	0.00	1.85	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
243	77.000	20.11	0.00	0.00	0.00	7.67	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
244	76.800	20.12	0.00	0.00	0.00	7.66	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
245	76.600	20.13	0.00	0.00	0.00	7.65	1.84	0.00	1.84	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
246	76.400	20.14	0.00	0.00	0.00	7.64	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
247	76.200	20.14	0.00	0.00	0.00	7.64	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
248	76.000	20.15	0.00	0.00	0.00	7.63	1.83	0.00	1.83	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
249	75.800	20.16	0.00	0.00	0.00	7.62	1.82	0.00	1.82	0.00	1.28	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
250	75.600	20.17	0.00	0.00	0.00	7.61	1.82	0.00	1.82	0.00	1.29	0.21	0.00	1.49	0.00	20.00	0.00	0.	0.00
251	75.400	20.17	0.00	0.00	0.00	7.60	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
252	75.200	20.18	0.00	0.00	0.00	7.59	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
253	75.000	20.19	0.00	0.00	0.00	7.59	1.81	0.00	1.81	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
254	74.800	20.20	0.00	0.00	0.00	7.58	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
255	74.600	20.20	0.00	0.00	0.00	7.57	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
256	74.400	20.21	0.00	0.00	0.00	7.57	1.80	0.00	1.80	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
257	74.200	20.22	0.00	0.00	0.00	7.56	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
258	74.000	20.23	0.00	0.00	0.00	7.55	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
259	73.800	20.23	0.00	0.00	0.00	7.55	1.79	0.00	1.79	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
260	73.600	20.24	0.00	0.00	0.00	7.54	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
261	73.400	20.25	0.00	0.00	0.00	7.54	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
262	73.200	20.26	0.00	0.00	0.00	7.53	1.78	0.00	1.78	0.00	1.29	0.21	0.00	1.50	0.00	20.00	0.00	0.	0.00
263	73.000	20.26	0.00	0.00	0.00	7.53	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00

264	72.800	20.27	0.00	0.00	0.00	7.52	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
265	72.600	20.28	0.00	0.00	0.00	7.52	1.77	0.00	1.77	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
266	72.400	20.29	0.00	0.00	0.00	7.51	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
267	72.200	20.29	0.00	0.00	0.00	7.51	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
268	72.000	20.30	0.00	0.00	0.00	7.50	1.76	0.00	1.76	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
269	71.800	20.31	0.00	0.00	0.00	7.50	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
270	71.600	20.31	0.00	0.00	0.00	7.49	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
271	71.400	20.32	0.00	0.00	0.00	7.49	1.75	0.00	1.75	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
272	71.200	20.33	0.00	0.00	0.00	7.49	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
273	71.000	20.34	0.00	0.00	0.00	7.48	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
274	70.800	20.34	0.00	0.00	0.00	7.48	1.74	0.00	1.74	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
275	70.600	20.35	0.00	0.00	0.00	7.47	1.73	0.00	1.73	0.00	1.30	0.21	0.00	1.51	0.00	20.00	0.00	0.	0.00
276	70.400	20.36	0.00	0.00	0.00	7.47	1.73	0.00	1.73	0.00	1.30	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
277	70.200	20.37	0.00	0.00	0.00	7.47	1.73	0.00	1.73	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
278	70.000	20.37	0.00	0.00	0.00	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
279	69.800	20.38	0.00	0.00	0.00	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
280	69.600	20.39	0.00	0.00	0.00	7.46	1.72	0.00	1.72	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
281	69.400	20.40	0.00	0.00	0.00	7.46	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
282	69.200	20.40	0.00	0.00	0.00	7.45	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
283	69.000	20.41	0.00	0.00	0.00	7.45	1.71	0.00	1.71	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
284	68.800	20.42	0.00	0.00	0.00	7.45	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
285	68.600	20.43	0.00	0.00	0.00	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
286	68.400	20.43	0.00	0.00	0.00	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
287	68.200	20.44	0.00	0.00	0.00	7.44	1.70	0.00	1.70	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
288	68.000	20.45	0.00	0.00	0.00	7.44	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
289	67.800	20.46	0.00	0.00	0.00	7.43	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.52	0.00	20.00	0.00	0.	0.00
290	67.600	20.46	0.00	0.00	0.00	7.43	1.69	0.00	1.69	0.00	1.31	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
291	67.400	20.47	0.00	0.00	0.00	7.43	1.68	0.00	1.68	0.00	1.31	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
292	67.200	20.48	0.00	0.00	0.00	7.43	1.68	0.00	1.68	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
293	67.000	20.49	0.00	0.00	0.00	7.42	1.68	0.00	1.68	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
294	66.800	20.49	0.00	0.00	0.00	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
295	66.600	20.50	0.00	0.00	0.00	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
296	66.400	20.51	0.00	0.00	0.00	7.42	1.67	0.00	1.67	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
297	66.200	20.51	0.00	0.00	0.00	7.42	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
298	66.000	20.52	0.00	0.00	0.00	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
299	65.800	20.53	0.00	0.00	0.00	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
300	65.600	20.54	0.00	0.00	0.00	7.41	1.66	0.00	1.66	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
301	65.400	20.54	0.00	0.00	0.00	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
302	65.200	20.55	0.00	0.00	0.00	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
303	65.000	20.56	0.00	0.00	0.00	7.41	1.65	0.00	1.65	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
304	64.800	20.57	0.00	0.00	0.00	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.53	0.00	20.00	0.00	0.	0.00
305	64.600	20.57	0.00	0.00	0.00	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
306	64.400	20.58	0.00	0.00	0.00	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
307	64.200	20.59	0.00	0.00	0.00	7.40	1.64	0.00	1.64	0.00	1.32	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
308	64.000	20.60	0.00	0.00	0.00	7.40	1.63	0.00	1.63	0.00	1.32	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
309	63.800	20.60	0.00	0.00	0.00	7.40	1.63	0.00	1.63	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
310	63.600	20.61	0.00	0.00	0.00	7.39	1.63	0.00	1.63	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
311	63.400	20.62	0.00	0.00	0.00	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
312	63.200	20.63	0.00	0.00	0.00	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
313	63.000	20.63	0.00	0.00	0.00	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
314	62.800	20.64	0.00	0.00	0.00	7.39	1.62	0.00	1.62	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00

315	62.600	20.65	0.00	0.00	0.00	7.39	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
316	62.400	20.66	0.00	0.00	0.00	7.39	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
317	62.200	20.66	0.00	0.00	0.00	7.38	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
318	62.000	20.67	0.00	0.00	0.00	7.38	1.61	0.00	1.61	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
319	61.800	20.68	0.00	0.00	0.00	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
320	61.600	20.69	0.00	0.00	0.00	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.54	0.00	20.00	0.00	0.	0.00
321	61.400	20.69	0.00	0.00	0.00	7.38	1.60	0.00	1.60	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
322	61.200	20.70	0.00	0.00	0.00	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
323	61.000	20.71	0.00	0.00	0.00	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
324	60.800	20.71	0.00	0.00	0.00	7.38	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
325	60.600	20.72	0.00	0.00	0.00	7.37	1.59	0.00	1.59	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
326	60.400	20.73	0.00	0.00	0.00	7.37	1.58	0.00	1.58	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
327	60.200	20.74	0.00	0.00	0.00	7.37	1.58	0.00	1.58	0.00	1.33	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
328	60.000	20.74	0.00	0.00	0.00	7.37	1.58	0.00	1.58	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
329	59.800	20.75	0.00	0.00	0.00	7.37	1.58	0.00	1.58	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
330	59.600	20.76	0.00	0.00	0.00	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
331	59.400	20.77	0.00	0.00	0.00	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
332	59.200	20.77	0.00	0.00	0.00	7.37	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
333	59.000	20.78	0.00	0.00	0.00	7.36	1.57	0.00	1.57	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
334	58.800	20.79	0.00	0.00	0.00	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
335	58.600	20.80	0.00	0.00	0.00	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
336	58.400	20.80	0.00	0.00	0.00	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
337	58.200	20.81	0.00	0.00	0.00	7.36	1.56	0.00	1.56	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
338	58.000	20.82	0.00	0.00	0.00	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.55	0.00	20.00	0.00	0.	0.00
339	57.800	20.83	0.00	0.00	0.00	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
340	57.600	20.83	0.00	0.00	0.00	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
341	57.400	20.84	0.00	0.00	0.00	7.36	1.55	0.00	1.55	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
342	57.200	20.85	0.00	0.00	0.00	7.36	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
343	57.000	20.86	0.00	0.00	0.00	7.35	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
344	56.800	20.86	0.00	0.00	0.00	7.35	1.54	0.00	1.54	0.00	1.34	0.21	0.00	1.56	0.00	20.00	0.00	0.	0.00
345	56.600	20.87	0.00	0.00	0.00	7.35	1.54	0.00	1.54	0.00	1.34	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
346	56.400	20.88	0.00	0.00	0.00	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
347	56.200	20.89	0.00	0.00	0.00	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
348	56.000	20.89	0.00	0.00	0.00	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
349	55.800	20.90	0.00	0.00	0.00	7.35	1.53	0.00	1.53	0.00	1.34	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
350	55.600	20.91	0.00	0.00	0.00	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
351	55.400	20.91	0.00	0.00	0.00	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
352	55.200	20.92	0.00	0.00	0.00	7.35	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
353	55.000	20.93	0.00	0.00	0.00	7.34	1.52	0.00	1.52	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
354	54.800	20.94	0.00	0.00	0.00	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
355	54.600	20.94	0.00	0.00	0.00	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
356	54.400	20.95	0.00	0.00	0.00	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
357	54.200	20.96	0.00	0.00	0.00	7.34	1.51	0.00	1.51	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
358	54.000	20.97	0.00	0.00	0.00	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
359	53.800	20.97	0.00	0.00	0.00	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.56	0.00	20.00	0.00	0.	0.00
360	53.600	20.98	0.00	0.00	0.00	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
361	53.400	20.99	0.00	0.00	0.00	7.34	1.50	0.00	1.50	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
362	53.200	21.00	0.00	0.00	0.00	7.34	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
363	53.000	21.00	0.00	0.00	0.00	7.34	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
364	52.800	21.01	0.00	0.00	0.00	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
365	52.600	21.02	0.00	0.00	0.00	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00

366	52.400	21.03	0.00	0.00	0.00	7.33	1.49	0.00	1.49	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
367	52.200	21.03	0.00	0.00	0.00	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
368	52.000	21.04	0.00	0.00	0.00	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
369	51.800	21.05	0.00	0.00	0.00	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
370	51.600	21.06	0.00	0.00	0.00	7.33	1.48	0.00	1.48	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
371	51.400	21.06	0.00	0.00	0.00	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
372	51.200	21.07	0.00	0.00	0.00	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
373	51.000	21.08	0.00	0.00	0.00	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
374	50.800	21.09	0.00	0.00	0.00	7.33	1.47	0.00	1.47	0.00	1.35	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
375	50.600	21.09	0.00	0.00	0.00	7.32	1.47	0.00	1.47	0.00	1.36	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00
376	50.400	21.10	0.00	0.00	0.00	7.32	1.46	0.00	1.46	0.00	1.36	0.22	0.00	1.57	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 4 Black Lake Winter Projection

********** 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 #/100mL	COLI	NCM
377	UPR RCH	1.45411	21.10	0.00	0.00	0.00	7.32	1.46	0.00	1.46	0.00	1.36	0.22	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00198	21.10	0.00	0.00	0.00	4.99	1.78	0.00		1.78	0.18	0.05	0.00		0.00	0.00	
388	WSTLD	0.00300	21.10	0.00	0.00	0.00	4.96	2.31	0.00	2.31	0.00	1.25	0.20	0.05	0.00	20.00	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	AREA m²	VOLUME m³	AREA m²	PRISM m³	SURFACE VELO m/s	X-SECT VELO m²/s	TIDAL m/s	TIDAL	DISPRSN	MEAN
377	50.40	50.20	1.45609	32.8	0.00074	3.13	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
378	50.20	50.00	1.45808	32.8	0.00074	3.13	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
379	50.00	49.80	1.46006	32.7	0.00074	3.13	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
380	49.80	49.60	1.46204	32.7	0.00074	3.12	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
381	49.60	49.40	1.46403	32.6	0.00074	3.12	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
382	49.40	49.20	1.46601	32.6	0.00074	3.11	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
383	49.20	49.00	1.46799	32.6	0.00074	3.11	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
384	49.00	48.80	1.46998	32.5	0.00075	3.10	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
385	48.80	48.60	1.47196	32.5	0.00075	3.10	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
386	48.60	48.40	1.47395	32.4	0.00075	3.10	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
387	48.40	48.20	1.47593	32.4	0.00075	3.09	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
388	48.20	48.00	1.48091	32.5	0.00075	3.08	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
389	48.00	47.80	1.48290	32.4	0.00075	3.08	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
390	47.80	47.60	1.48488	32.4	0.00075	3.07	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
391	47.60	47.40	1.48686	32.3	0.00075	3.07	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
392	47.40	47.20	1.48885	32.3	0.00076	3.07	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
393	47.20	47.00	1.49083	32.3	0.00076	3.06	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				
394	47.00	46.80	1.49281	32.2	0.00076	3.06	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001				

395	46.80	46.60	1.49480	32.2	0.00076	3.05	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
396	46.60	46.40	1.49678	32.1	0.00076	3.05	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
397	46.40	46.20	1.49876	32.1	0.00076	3.04	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
398	46.20	46.00	1.50075	32.1	0.00076	3.04	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
399	46.00	45.80	1.50273	32.0	0.00076	3.04	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
400	45.80	45.60	1.50471	32.0	0.00076	3.03	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
401	45.60	45.40	1.50670	31.9	0.00076	3.03	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
402	45.40	45.20	1.50868	31.9	0.00077	3.02	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
403	45.20	45.00	1.51067	31.8	0.00077	3.02	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
404	45.00	44.80	1.51265	31.8	0.00077	3.02	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
405	44.80	44.60	1.51463	31.8	0.00077	3.01	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
406	44.60	44.40	1.51662	31.7	0.00077	3.01	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
407	44.40	44.20	1.51860	31.7	0.00077	3.01	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
408	44.20	44.00	1.52058	31.6	0.00077	3.00	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
409	44.00	43.80	1.52257	31.6	0.00077	3.00	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
410	43.80	43.60	1.52455	31.6	0.00077	2.99	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
411	43.60	43.40	1.52653	31.5	0.00077	2.99	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
412	43.40	43.20	1.52852	31.5	0.00078	2.99	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
413	43.20	43.00	1.53050	31.4	0.00078	2.98	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
414	43.00	42.80	1.53248	31.4	0.00078	2.98	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
415	42.80	42.60	1.53447	31.3	0.00078	2.97	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
416	42.60	42.40	1.53645	31.3	0.00078	2.97	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
417	42.40	42.20	1.53843	31.3	0.00078	2.97	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
418	42.20	42.00	1.54042	31.2	0.00078	2.96	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
419	42.00	41.80	1.54240	31.2	0.00078	2.96	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
420	41.80	41.60	1.54439	31.1	0.00078	2.95	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
421	41.60	41.40	1.54637	31.1	0.00078	2.95	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
422	41.40	41.20	1.54835	31.1	0.00079	2.95	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
423	41.20	41.00	1.55034	31.0	0.00079	2.94	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
424	41.00	40.80	1.55232	31.0	0.00079	2.94	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
425	40.80	40.60	1.55430	30.9	0.00079	2.94	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
426	40.60	40.40	1.55629	30.9	0.00079	2.93	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
427	40.40	40.20	1.55827	30.9	0.00079	2.93	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
428	40.20	40.00	1.56025	30.8	0.00079	2.92	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
429	40.00	39.80	1.56224	30.8	0.00079	2.92	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
430	39.80	39.60	1.56422	30.8	0.00079	2.92	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
431	39.60	39.40	1.56620	30.7	0.00079	2.91	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
432	39.40	39.20	1.56819	30.7	0.00080	2.91	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
433	39.20	39.00	1.57017	30.6	0.00080	2.91	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
434	39.00	38.80	1.57215	30.6	0.00080	2.90	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
435	38.80	38.60	1.57414	30.6	0.00080	2.90	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
436	38.60	38.40	1.57612	30.5	0.00080	2.90	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
437	38.40	38.20	1.57810	30.5	0.00080	2.89	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
438	38.20	38.00	1.58009	30.4	0.00080	2.89	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
439	38.00	37.80	1.58207	30.4	0.00080	2.88	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
440	37.80	37.60	1.58406	30.4	0.00080	2.88	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
441	37.60	37.40	1.58604	30.3	0.00080	2.88	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
442	37.40	37.20	1.58802	30.3	0.00081	2.87	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
443	37.20	37.00	1.59001	30.3	0.00081	2.87	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
444	37.00	36.80	1.59199	30.2	0.00081	2.87	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
445	36.80	36.60	1.59397	30.2	0.00081	2.86	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001

446	36.60	36.40	1.59596	30.1	0.00081	2.86	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
447	36.40	36.20	1.59794	30.1	0.00081	2.86	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
448	36.20	36.00	1.59992	30.1	0.00081	2.85	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001
449	36.00	35.80	1.60191	30.0	0.00081	2.85	1.52	1297.00	394288.00	259400.00	1971.44	0.00	0.000	0.000	0.001

TOT		217.90	28783024.00	18936200.00	
AVG	0.0008	1.52	1297.00	1971.44	
CUM		236.28			

********** 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 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
377	50.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
378	50.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
379	49.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
380	49.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
381	49.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
382	49.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
383	49.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
384	48.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
385	48.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
386	48.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
387	48.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
388	48.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
389	47.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
390	47.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
391	47.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
392	47.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
393	47.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
394	46.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
395	46.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
396	46.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
397	46.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
398	46.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
399	45.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
400	45.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
401	45.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
402	45.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
403	45.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
404	44.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
405	44.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
406	44.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
407	44.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
408	44.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
409	43.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
410	43.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
411	43.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00

412	43.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
413	43.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
414	42.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
415	42.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
416	42.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
417	42.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
418	42.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
419	41.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
420	41.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
421	41.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
422	41.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
423	41.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
424	40.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
425	40.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
426	40.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
427	40.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
428	40.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
429	39.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
430	39.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
431	39.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
432	39.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
433	39.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
434	38.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
435	38.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
436	38.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
437	38.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
438	38.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
439	37.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
440	37.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
441	37.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
442	37.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
443	37.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
444	36.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
445	36.600	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
446	36.400	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
447	36.200	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
448	36.000	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
449	35.800	8.90	0.54	0.06	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.02	0.00	0.12	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.06	0.00	0.00	0.00	0.00	0.00	1.94			0.02	0.00	0.11	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
377	50.200	21.10	0.00	0.00	0.00	7.04	2.50	0.00	2.50	0.00	1.37	0.22	0.00	1.60	0.00	20.00	0.00	0.	0.00
378	50.000	21.10	0.00	0.00	0.00	6.87	3.36	0.00	3.36	0.00	1.39	0.23	0.00	1.62	0.00	20.00	0.00	0.	0.00

379	49.800	21.10	0.00	0.00	0.00	6.75	4.08	0.00	4.08	0.00	1.41	0.23	0.00	1.64	0.00	20.00	0.00	0.	0.00
380	49.600	21.10	0.00	0.00	0.00	6.66	4.68	0.00	4.68	0.00	1.42	0.24	0.00	1.66	0.00	20.00	0.00	0.	0.00
381	49.400	21.10	0.00	0.00	0.00	6.58	5.18	0.00	5.18	0.00	1.44	0.24	0.00	1.68	0.00	20.00	0.00	0.	0.00
382	49.200	21.10	0.00	0.00	0.00	6.52	5.60	0.00	5.60	0.00	1.45	0.24	0.00	1.69	0.00	20.00	0.00	0.	0.00
383	49.000	21.10	0.00	0.00	0.00	6.47	5.95	0.00	5.95	0.00	1.46	0.25	0.00	1.71	0.00	20.00	0.00	0.	0.00
384	48.800	21.10	0.00	0.00	0.00	6.43	6.24	0.00	6.24	0.00	1.47	0.25	0.00	1.72	0.00	20.00	0.00	0.	0.00
385	48.600	21.10	0.00	0.00	0.00	6.40	6.48	0.00	6.48	0.00	1.48	0.25	0.00	1.74	0.00	20.00	0.00	0.	0.00
386	48.400	21.10	0.00	0.00	0.00	6.37	6.68	0.00	6.68	0.00	1.49	0.26	0.00	1.75	0.00	20.00	0.00	0.	0.00
387	48.200	21.10	0.00	0.00	0.00	6.35	6.85	0.00	6.85	0.00	1.50	0.26	0.00	1.76	0.00	20.00	0.00	0.	0.00
388	48.000	21.10	0.00	0.00	0.00	6.32	6.98	0.00	6.98	0.00	1.51	0.26	0.00	1.77	0.00	20.00	0.00	0.	0.00
389	47.800	21.10	0.00	0.00	0.00	6.31	7.10	0.00	7.10	0.00	1.52	0.26	0.00	1.78	0.00	20.00	0.00	0.	0.00
390	47.600	21.10	0.00	0.00	0.00	6.29	7.20	0.00	7.20	0.00	1.53	0.26	0.00	1.79	0.00	20.00	0.00	0.	0.00
391	47.400	21.10	0.00	0.00	0.00	6.28	7.28	0.00	7.28	0.00	1.54	0.27	0.00	1.80	0.00	20.00	0.00	0.	0.00
392	47.200	21.10	0.00	0.00	0.00	6.27	7.35	0.00	7.35	0.00	1.54	0.27	0.00	1.81	0.00	20.00	0.00	0.	0.00
393	47.000	21.10	0.00	0.00	0.00	6.26	7.40	0.00	7.40	0.00	1.55	0.27	0.00	1.82	0.00	20.00	0.00	0.	0.00
394	46.800	21.10	0.00	0.00	0.00	6.25	7.45	0.00	7.45	0.00	1.56	0.27	0.00	1.82	0.00	20.00	0.00	0.	0.00
395	46.600	21.10	0.00	0.00	0.00	6.25	7.49	0.00	7.49	0.00	1.56	0.27	0.00	1.83	0.00	20.00	0.00	0.	0.00
396	46.400	21.10	0.00	0.00	0.00	6.24	7.53	0.00	7.53	0.00	1.57	0.27	0.00	1.84	0.00	20.00	0.00	0.	0.00
397	46.200	21.10	0.00	0.00	0.00	6.24	7.56	0.00	7.56	0.00	1.57	0.27	0.00	1.84	0.00	20.00	0.00	0.	0.00
398	46.000	21.10	0.00	0.00	0.00	6.23	7.58	0.00	7.58	0.00	1.58	0.27	0.00	1.85	0.00	20.00	0.00	0.	0.00
399	45.800	21.10	0.00	0.00	0.00	6.23	7.60	0.00	7.60	0.00	1.58	0.28	0.00	1.86	0.00	20.00	0.00	0.	0.00
400	45.600	21.10	0.00	0.00	0.00	6.23	7.61	0.00	7.61	0.00	1.59	0.28	0.00	1.86	0.00	20.00	0.00	0.	0.00
401	45.400	21.10	0.00	0.00	0.00	6.22	7.63	0.00	7.63	0.00	1.59	0.28	0.00	1.87	0.00	20.00	0.00	0.	0.00
402	45.200	21.10	0.00	0.00	0.00	6.22	7.64	0.00	7.64	0.00	1.59	0.28	0.00	1.87	0.00	20.00	0.00	0.	0.00
403	45.000	21.10	0.00	0.00	0.00	6.22	7.65	0.00	7.65	0.00	1.60	0.28	0.00	1.87	0.00	20.00	0.00	0.	0.00
404	44.800	21.10	0.00	0.00	0.00	6.22	7.66	0.00	7.66	0.00	1.60	0.28	0.00	1.88	0.00	20.00	0.00	0.	0.00
405	44.600	21.10	0.00	0.00	0.00	6.22	7.67	0.00	7.67	0.00	1.60	0.28	0.00	1.88	0.00	20.00	0.00	0.	0.00
406	44.400	21.10	0.00	0.00	0.00	6.21	7.67	0.00	7.67	0.00	1.61	0.28	0.00	1.89	0.00	20.00	0.00	0.	0.00
407	44.200	21.10	0.00	0.00	0.00	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.89	0.00	20.00	0.00	0.	0.00
408	44.000	21.10	0.00	0.00	0.00	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.89	0.00	20.00	0.00	0.	0.00
409	43.800	21.10	0.00	0.00	0.00	6.21	7.68	0.00	7.68	0.00	1.61	0.28	0.00	1.90	0.00	20.00	0.00	0.	0.00
410	43.600	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.00	0.00	0.	0.00
411	43.400	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.00	0.00	0.	0.00
412	43.200	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.90	0.00	20.00	0.00	0.	0.00
413	43.000	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.00	0.00	0.	0.00
414	42.800	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.00	0.00	0.	0.00
415	42.600	21.10	0.00	0.00	0.00	6.21	7.69	0.00	7.69	0.00	1.62	0.28	0.00	1.91	0.00	20.00	0.00	0.	0.00
416	42.400	21.10	0.00	0.00	0.00	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.00	0.00	0.	0.00
417	42.200	21.10	0.00	0.00	0.00	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.00	0.00	0.	0.00
418	42.000	21.10	0.00	0.00	0.00	6.21	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.91	0.00	20.00	0.00	0.	0.00
419	41.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
420	41.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
421	41.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
422	41.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
423	41.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.63	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
424	40.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
425	40.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.92	0.00	20.00	0.00	0.	0.00
426	40.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
427	40.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
428	40.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
429	39.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00

430	39.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
431	39.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
432	39.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
433	39.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
434	38.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
435	38.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
436	38.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
437	38.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
438	38.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.64	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
439	37.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
440	37.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
441	37.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.93	0.00	20.00	0.00	0.	0.00
442	37.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
443	37.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
444	36.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
445	36.600	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
446	36.400	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
447	36.200	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
448	36.000	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
449	35.800	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 5 Clear Lake Winter Projection

********** 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 #/100mL	COLI	NCM
450	UPR RCH	1.60191	21.10	0.00	0.00	0.00	6.20	7.70	0.00	7.70	0.00	1.65	0.29	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00198	21.10	0.00	0.00	0.00	4.99	1.78	0.00		1.78	0.18	0.05	0.00	0.00	0.00		
505	WSTLD	-0.85650	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
450	35.80	35.60	1.60389	30.0	0.00019	12.19	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
451	35.60	35.40	1.60588	30.0	0.00019	12.17	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
452	35.40	35.20	1.60786	29.9	0.00019	12.16	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
453	35.20	35.00	1.60984	29.9	0.00019	12.14	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
454	35.00	34.80	1.61183	29.8	0.00019	12.13	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
455	34.80	34.60	1.61381	29.8	0.00019	12.11	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
456	34.60	34.40	1.61579	29.8	0.00019	12.10	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
457	34.40	34.20	1.61778	29.7	0.00019	12.08	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
458	34.20	34.00	1.61976	29.7	0.00019	12.07	4.97	1699.00	168805.88	339800.00	8444.03	0.00	0.000	0.000	0.000

459	34.00	33.80	1.62175	29.7	0.00019	12.05	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
460	33.80	33.60	1.62373	29.6	0.00019	12.04	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
461	33.60	33.40	1.62571	29.6	0.00019	12.02	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
462	33.40	33.20	1.62770	29.6	0.00019	12.01	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
463	33.20	33.00	1.62968	29.5	0.00019	11.99	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
464	33.00	32.80	1.63167	29.5	0.00019	11.98	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
465	32.80	32.60	1.63365	29.4	0.00019	11.96	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
466	32.60	32.40	1.63563	29.4	0.00019	11.95	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
467	32.40	32.20	1.63762	29.4	0.00019	11.94	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
468	32.20	32.00	1.63960	29.3	0.00019	11.92	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
469	32.00	31.80	1.64158	29.3	0.00019	11.91	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
470	31.80	31.60	1.64357	29.3	0.00019	11.89	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
471	31.60	31.40	1.64555	29.2	0.00019	11.88	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
472	31.40	31.20	1.64754	29.2	0.00020	11.86	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
473	31.20	31.00	1.64952	29.2	0.00020	11.85	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
474	31.00	30.80	1.65150	29.1	0.00020	11.84	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
475	30.80	30.60	1.65349	29.1	0.00020	11.82	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
476	30.60	30.40	1.65547	29.1	0.00020	11.81	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
477	30.40	30.20	1.65746	29.0	0.00020	11.79	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
478	30.20	30.00	1.65944	29.0	0.00020	11.78	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
479	30.00	29.80	1.66142	29.0	0.00020	11.76	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
480	29.80	29.60	1.66341	28.9	0.00020	11.75	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
481	29.60	29.40	1.66539	28.9	0.00020	11.74	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
482	29.40	29.20	1.66738	28.8	0.00020	11.72	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
483	29.20	29.00	1.66936	28.8	0.00020	11.71	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
484	29.00	28.80	1.67134	28.8	0.00020	11.70	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
485	28.80	28.60	1.67333	28.7	0.00020	11.68	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
486	28.60	28.40	1.67531	28.7	0.00020	11.67	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
487	28.40	28.20	1.67729	28.7	0.00020	11.65	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
488	28.20	28.00	1.67928	28.6	0.00020	11.64	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
489	28.00	27.80	1.68126	28.6	0.00020	11.63	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
490	27.80	27.60	1.68325	28.6	0.00020	11.61	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
491	27.60	27.40	1.68523	28.5	0.00020	11.60	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
492	27.40	27.20	1.68721	28.5	0.00020	11.58	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
493	27.20	27.00	1.68920	28.5	0.00020	11.57	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
494	27.00	26.80	1.69118	28.4	0.00020	11.56	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
495	26.80	26.60	1.69317	28.4	0.00020	11.54	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
496	26.60	26.40	1.69515	28.4	0.00020	11.53	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
497	26.40	26.20	1.69713	28.3	0.00020	11.52	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
498	26.20	26.00	1.69912	28.3	0.00020	11.50	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
499	26.00	25.80	1.70110	28.3	0.00020	11.49	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
500	25.80	25.60	1.70309	28.2	0.00020	11.48	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
501	25.60	25.40	1.70507	28.2	0.00020	11.46	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
502	25.40	25.20	1.70705	28.2	0.00020	11.45	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
503	25.20	25.00	1.70904	28.1	0.00020	11.44	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
504	25.00	24.80	1.71102	28.1	0.00020	11.42	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000
505	24.80	24.60	0.85650	28.1	0.00010	22.82	4.97	1699.00	1688805.88	339800.00	8444.03	0.00	0.000	0.000	0.000

TOT		671.67		94573128.00	19028800.00
AVG	0.0002		4.97	1699.00	8444.03
CUM		907.95			

********** 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 *	BOD#2 SETT *	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 DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
450	35.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
451	35.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
452	35.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
453	35.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
454	34.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
455	34.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
456	34.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
457	34.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
458	34.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
459	33.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
460	33.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
461	33.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
462	33.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
463	33.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
464	32.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
465	32.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
466	32.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
467	32.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
468	32.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
469	31.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
470	31.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
471	31.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
472	31.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
473	31.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
474	30.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
475	30.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
476	30.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
477	30.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
478	30.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
479	29.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
480	29.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
481	29.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
482	29.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
483	29.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
484	28.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
485	28.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
486	28.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
487	28.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
488	28.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
489	27.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
490	27.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
491	27.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
492	27.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00

493	27.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
494	26.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
495	26.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
496	26.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
497	26.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
498	26.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
499	25.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
500	25.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
501	25.400	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
502	25.200	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
503	25.000	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
504	24.800	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
505	24.600	8.90	0.16	0.06	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.02	0.00	0.11	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.16	0.06	0.00	0.00	0.00	0.00	0.00	1.98			0.02	0.00	0.11	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
450	35.600	21.10	0.00	0.00	0.00	5.92	7.72	0.00	7.72	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
451	35.400	21.10	0.00	0.00	0.00	5.82	7.73	0.00	7.73	0.00	1.65	0.29	0.00	1.94	0.00	20.00	0.00	0.	0.00
452	35.200	21.10	0.00	0.00	0.00	5.79	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
453	35.000	21.10	0.00	0.00	0.00	5.77	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
454	34.800	21.10	0.00	0.00	0.00	5.77	7.74	0.00	7.74	0.00	1.65	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
455	34.600	21.10	0.00	0.00	0.00	5.77	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
456	34.400	21.10	0.00	0.00	0.00	5.77	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
457	34.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
458	34.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
459	33.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
460	33.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
461	33.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
462	33.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
463	33.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
464	32.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
465	32.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
466	32.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
467	32.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
468	32.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
469	31.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
470	31.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
471	31.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
472	31.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
473	31.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
474	30.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
475	30.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
476	30.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00

477	30.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
478	30.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
479	29.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
480	29.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
481	29.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
482	29.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
483	29.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
484	28.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
485	28.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
486	28.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
487	28.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
488	28.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
489	27.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
490	27.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
491	27.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
492	27.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
493	27.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
494	26.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
495	26.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
496	26.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
497	26.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
498	26.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
499	25.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
500	25.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
501	25.400	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
502	25.200	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
503	25.000	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
504	24.800	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00
505	24.600	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 6 Black Lake Bayou Winter Projection

********** 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 #/100mL	COLI	NCM
506	UPR RCH	0.85650	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
506	24.60	24.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
507	24.40	24.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001

508	24.20	24.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
509	24.00	23.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
510	23.80	23.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
511	23.60	23.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
512	23.40	23.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
513	23.20	23.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
514	23.00	22.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
515	22.80	22.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
516	22.60	22.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
517	22.40	22.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
518	22.20	22.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
519	22.00	21.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
520	21.80	21.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
521	21.60	21.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
522	21.40	21.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
523	21.20	21.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
524	21.00	20.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
525	20.80	20.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
526	20.60	20.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
527	20.40	20.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
528	20.20	20.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
529	20.00	19.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
530	19.80	19.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
531	19.60	19.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
532	19.40	19.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
533	19.20	19.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
534	19.00	18.80	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
535	18.80	18.60	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
536	18.60	18.40	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
537	18.40	18.20	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001
538	18.20	18.00	0.85650	28.1	0.00137	1.69	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.001

TOT			55.72		4123680.00	726000.00	
AVG		0.0014		5.68	110.00		624.80
CUM			963.68				

********** 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	
506	24.400	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.02	0.00	0.11	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
507	24.200	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
508	24.000	8.89	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
509	23.800	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.11	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
510	23.600	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.02	0.00	0.11	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
511	23.400	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.02	0.00	0.11	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
512	23.200	8.88	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
513	23.000	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00

514	22.800	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.11	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
515	22.600	8.87	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
516	22.400	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
517	22.200	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.11	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
518	22.000	8.86	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.02	0.00	0.11	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
519	21.800	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.02	0.00	0.12	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
520	21.600	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.02	0.00	0.12	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
521	21.400	8.85	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.12	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
522	21.200	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.12	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
523	21.000	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
524	20.800	8.84	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
525	20.600	8.83	0.14	0.06	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.12	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
526	20.400	8.83	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
527	20.200	8.83	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
528	20.000	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.12	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
529	19.800	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
530	19.600	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
531	19.400	8.82	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.12	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
532	19.200	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.12	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
533	19.000	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.12	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
534	18.800	8.81	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
535	18.600	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
536	18.400	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.12	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
537	18.200	8.80	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
538	18.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.12	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.14 0.06 0.00 0.00 0.00 0.00 0.00 2.89 0.02 0.00 0.11 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
506	24.400	21.12	0.00	0.00	0.00	5.53	7.74	0.00	7.74	0.00	1.66	0.29	0.00	1.95	0.00	20.42	0.00	0.	0.00
507	24.200	21.14	0.00	0.00	0.00	5.36	7.73	0.00	7.73	0.00	1.66	0.29	0.00	1.95	0.00	20.85	0.00	0.	0.00
508	24.000	21.15	0.00	0.00	0.00	5.23	7.73	0.00	7.73	0.00	1.66	0.29	0.00	1.95	0.00	21.27	0.00	0.	0.00
509	23.800	21.17	0.00	0.00	0.00	5.15	7.72	0.00	7.72	0.00	1.66	0.29	0.00	1.95	0.00	21.70	0.00	0.	0.00
510	23.600	21.19	0.00	0.00	0.00	5.10	7.72	0.00	7.72	0.00	1.65	0.30	0.00	1.95	0.00	22.12	0.00	0.	0.00
511	23.400	21.21	0.00	0.00	0.00	5.07	7.71	0.00	7.71	0.00	1.65	0.30	0.00	1.95	0.00	22.55	0.00	0.	0.00
512	23.200	21.23	0.00	0.00	0.00	5.06	7.71	0.00	7.71	0.00	1.65	0.30	0.00	1.95	0.00	22.97	0.00	0.	0.00
513	23.000	21.25	0.00	0.00	0.00	5.07	7.70	0.00	7.70	0.00	1.65	0.30	0.00	1.95	0.00	23.39	0.00	0.	0.00
514	22.800	21.26	0.00	0.00	0.00	5.10	7.69	0.00	7.69	0.00	1.65	0.30	0.00	1.95	0.00	23.82	0.00	0.	0.00
515	22.600	21.28	0.00	0.00	0.00	5.13	7.69	0.00	7.69	0.00	1.65	0.30	0.00	1.95	0.00	24.24	0.00	0.	0.00
516	22.400	21.30	0.00	0.00	0.00	5.17	7.68	0.00	7.68	0.00	1.65	0.29	0.00	1.95	0.00	24.67	0.00	0.	0.00
517	22.200	21.32	0.00	0.00	0.00	5.22	7.68	0.00	7.68	0.00	1.65	0.29	0.00	1.94	0.00	25.09	0.00	0.	0.00
518	22.000	21.34	0.00	0.00	0.00	5.27	7.67	0.00	7.67	0.00	1.65	0.29	0.00	1.94	0.00	25.52	0.00	0.	0.00
519	21.800	21.35	0.00	0.00	0.00	5.33	7.66	0.00	7.66	0.00	1.65	0.29	0.00	1.94	0.00	25.94	0.00	0.	0.00
520	21.600	21.37	0.00	0.00	0.00	5.40	7.66	0.00	7.66	0.00	1.65	0.29	0.00	1.94	0.00	26.36	0.00	0.	0.00

521	21.400	21.39	0.00	0.00	0.00	5.46	7.65	0.00	7.65	0.00	1.65	0.29	0.00	1.94	0.00	26.79	0.00	0.	0.00
522	21.200	21.41	0.00	0.00	0.00	5.53	7.65	0.00	7.65	0.00	1.65	0.29	0.00	1.94	0.00	27.21	0.00	0.	0.00
523	21.000	21.43	0.00	0.00	0.00	5.60	7.64	0.00	7.64	0.00	1.65	0.29	0.00	1.94	0.00	27.64	0.00	0.	0.00
524	20.800	21.45	0.00	0.00	0.00	5.67	7.63	0.00	7.63	0.00	1.65	0.29	0.00	1.94	0.00	28.06	0.00	0.	0.00
525	20.600	21.46	0.00	0.00	0.00	5.75	7.63	0.00	7.63	0.00	1.64	0.29	0.00	1.93	0.00	28.48	0.00	0.	0.00
526	20.400	21.48	0.00	0.00	0.00	5.82	7.62	0.00	7.62	0.00	1.64	0.29	0.00	1.93	0.00	28.91	0.00	0.	0.00
527	20.200	21.50	0.00	0.00	0.00	5.90	7.61	0.00	7.61	0.00	1.64	0.29	0.00	1.93	0.00	29.33	0.00	0.	0.00
528	20.000	21.52	0.00	0.00	0.00	5.97	7.61	0.00	7.61	0.00	1.64	0.29	0.00	1.93	0.00	29.76	0.00	0.	0.00
529	19.800	21.54	0.00	0.00	0.00	6.05	7.60	0.00	7.60	0.00	1.64	0.29	0.00	1.93	0.00	30.18	0.00	0.	0.00
530	19.600	21.55	0.00	0.00	0.00	6.13	7.60	0.00	7.60	0.00	1.64	0.29	0.00	1.93	0.00	30.61	0.00	0.	0.00
531	19.400	21.57	0.00	0.00	0.00	6.21	7.59	0.00	7.59	0.00	1.64	0.29	0.00	1.93	0.00	31.03	0.00	0.	0.00
532	19.200	21.59	0.00	0.00	0.00	6.28	7.58	0.00	7.58	0.00	1.64	0.29	0.00	1.93	0.00	31.45	0.00	0.	0.00
533	19.000	21.61	0.00	0.00	0.00	6.36	7.58	0.00	7.58	0.00	1.64	0.28	0.00	1.92	0.00	31.88	0.00	0.	0.00
534	18.800	21.63	0.00	0.00	0.00	6.44	7.57	0.00	7.57	0.00	1.64	0.28	0.00	1.92	0.00	32.30	0.00	0.	0.00
535	18.600	21.65	0.00	0.00	0.00	6.52	7.56	0.00	7.56	0.00	1.64	0.28	0.00	1.92	0.00	32.73	0.00	0.	0.00
536	18.400	21.66	0.00	0.00	0.00	6.60	7.56	0.00	7.56	0.00	1.64	0.28	0.00	1.92	0.00	33.15	0.00	0.	0.00
537	18.200	21.68	0.00	0.00	0.00	6.68	7.55	0.00	7.55	0.00	1.64	0.28	0.00	1.92	0.00	33.58	0.00	0.	0.00
538	18.000	21.70	0.00	0.00	0.00	6.76	7.55	0.00	7.55	0.00	1.64	0.28	0.00	1.92	0.00	34.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 7 Saline Bayou Winter Projection

********** 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
539	UPR RCH	0.85650	21.70	0.00	0.00	0.00	6.76	7.55	0.00	7.55	0.00	1.64	0.28	0.00	0.00	34.00	0.00	0.00
539	WSTLD	1.61050	31.70	0.00	0.00	0.00	4.94	2.60	0.00	2.60	0.00	1.40	0.22	0.05	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
539	18.00	17.80	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
540	17.80	17.60	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
541	17.60	17.40	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
542	17.40	17.20	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
543	17.20	17.00	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
544	17.00	16.80	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
545	16.80	16.60	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
546	16.60	16.40	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
547	16.40	16.20	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
548	16.20	16.00	2.46700	75.0	0.00395	0.59	5.68	110.00	124960.00	22000.00	624.80	0.00	0.000	0.000	0.004
TOT						5.86			1249600.00	220000.00					

AVG	0.0039	5.68	110.00	624.80
CUM	969.54			

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
539	17.800	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
540	17.600	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
541	17.400	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
542	17.200	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
543	17.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
544	16.800	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
545	16.600	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
546	16.400	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
547	16.200	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
548	16.000	8.79	0.15	0.06	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.02	0.00	0.12	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.14	0.06	0.00	0.00	0.00	0.00	0.00	4.75			0.02	0.00	0.11	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	MACRO	COLI #/100mL	NCM
539	17.800	21.70	0.00	0.00	0.00	5.62	4.57	0.00	4.57	0.00	1.49	0.24	0.00	1.73	0.00	34.80	0.00	0.	0.00
540	17.600	21.70	0.00	0.00	0.00	5.67	4.80	0.00	4.80	0.00	1.50	0.24	0.00	1.74	0.00	35.60	0.00	0.	0.00
541	17.400	21.70	0.00	0.00	0.00	5.72	5.04	0.00	5.04	0.00	1.50	0.24	0.00	1.75	0.00	36.40	0.00	0.	0.00
542	17.200	21.70	0.00	0.00	0.00	5.77	5.26	0.00	5.26	0.00	1.51	0.25	0.00	1.76	0.00	37.20	0.00	0.	0.00
543	17.000	21.70	0.00	0.00	0.00	5.83	5.47	0.00	5.47	0.00	1.52	0.25	0.00	1.77	0.00	38.00	0.00	0.	0.00
544	16.800	21.70	0.00	0.00	0.00	5.88	5.68	0.00	5.68	0.00	1.53	0.25	0.00	1.77	0.00	38.80	0.00	0.	0.00
545	16.600	21.70	0.00	0.00	0.00	5.93	5.88	0.00	5.88	0.00	1.53	0.25	0.00	1.78	0.00	39.60	0.00	0.	0.00
546	16.400	21.70	0.00	0.00	0.00	5.98	6.07	0.00	6.07	0.00	1.54	0.25	0.00	1.79	0.00	40.40	0.00	0.	0.00
547	16.200	21.70	0.00	0.00	0.00	6.04	6.25	0.00	6.25	0.00	1.55	0.25	0.00	1.80	0.00	41.20	0.00	0.	0.00
548	16.000	21.70	0.00	0.00	0.00	6.09	6.43	0.00	6.43	0.00	1.56	0.25	0.00	1.81	0.00	42.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 10 Saline Bayou Winter Projection

********** 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

579	UPR RCH	2.46700	21.70	0.00	0.00	0.00	6.09	6.43	0.00	6.43	0.00	1.56	0.25	0.00	0.00	42.00	0.00	0.00
579	TRIB	0.85650	21.70	0.00	0.00	0.00	6.21	19.31	0.00	19.31	0.00	1.71	0.29	0.00	0.00	42.00	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
579	16.00	15.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
580	15.80	15.60	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
581	15.60	15.40	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
582	15.40	15.20	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
583	15.20	15.00	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
584	15.00	14.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
585	14.80	14.60	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
586	14.60	14.40	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
587	14.40	14.20	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
588	14.20	14.00	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
589	14.00	13.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
590	13.80	13.60	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
591	13.60	13.40	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
592	13.40	13.20	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
593	13.20	13.00	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
594	13.00	12.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
595	12.80	12.60	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
596	12.60	12.40	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
597	12.40	12.20	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
598	12.20	12.00	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
599	12.00	11.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
600	11.80	11.60	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
601	11.60	11.40	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
602	11.40	11.20	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
603	11.20	11.00	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
604	11.00	10.80	3.32350	55.7	0.01438	0.16	4.57	50.56	46211.84	10112.00	231.06	0.00	0.000	0.000	0.014
TOT					4.18				1201508.38	262912.00					
AVG					0.0144		4.57	50.56			231.06				
CUM					973.72										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 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	SRCE **	DENIT PROD **	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM DECAY 1/da	NCM SETT 1/da
579	15.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00	
580	15.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	

581	15.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
582	15.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
583	15.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
584	14.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
585	14.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
586	14.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
587	14.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
588	14.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
589	13.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
590	13.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
591	13.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
592	13.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
593	13.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
594	12.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
595	12.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
596	12.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
597	12.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
598	12.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
599	11.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
600	11.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
601	11.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
602	11.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
603	11.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
604	10.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.18 0.06 0.00 0.00 0.00 0.00 0.00 4.50 0.02 0.00 0.11 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
579	15.800	21.70	0.00	0.00	0.00	6.09	9.74	0.00	9.74	0.00	1.60	0.26	0.00	1.86	0.00	42.31	0.00	0.	0.00
580	15.600	21.70	0.00	0.00	0.00	6.06	9.73	0.00	9.73	0.00	1.60	0.26	0.00	1.86	0.00	42.62	0.00	0.	0.00
581	15.400	21.70	0.00	0.00	0.00	6.04	9.73	0.00	9.73	0.00	1.60	0.26	0.00	1.86	0.00	42.92	0.00	0.	0.00
582	15.200	21.70	0.00	0.00	0.00	6.02	9.72	0.00	9.72	0.00	1.60	0.26	0.00	1.86	0.00	43.23	0.00	0.	0.00
583	15.000	21.70	0.00	0.00	0.00	5.99	9.71	0.00	9.71	0.00	1.60	0.26	0.00	1.86	0.00	43.54	0.00	0.	0.00
584	14.800	21.70	0.00	0.00	0.00	5.97	9.70	0.00	9.70	0.00	1.60	0.26	0.00	1.86	0.00	43.85	0.00	0.	0.00
585	14.600	21.70	0.00	0.00	0.00	5.96	9.69	0.00	9.69	0.00	1.60	0.26	0.00	1.86	0.00	44.15	0.00	0.	0.00
586	14.400	21.70	0.00	0.00	0.00	5.94	9.69	0.00	9.69	0.00	1.60	0.26	0.00	1.87	0.00	44.46	0.00	0.	0.00
587	14.200	21.70	0.00	0.00	0.00	5.93	9.68	0.00	9.68	0.00	1.60	0.26	0.00	1.87	0.00	44.77	0.00	0.	0.00
588	14.000	21.70	0.00	0.00	0.00	5.92	9.67	0.00	9.67	0.00	1.60	0.26	0.00	1.87	0.00	45.08	0.00	0.	0.00
589	13.800	21.70	0.00	0.00	0.00	5.91	9.67	0.00	9.67	0.00	1.61	0.26	0.00	1.87	0.00	45.38	0.00	0.	0.00
590	13.600	21.70	0.00	0.00	0.00	5.90	9.66	0.00	9.66	0.00	1.61	0.26	0.00	1.87	0.00	45.69	0.00	0.	0.00
591	13.400	21.70	0.00	0.00	0.00	5.89	9.65	0.00	9.65	0.00	1.61	0.26	0.00	1.87	0.00	46.00	0.00	0.	0.00
592	13.200	21.70	0.00	0.00	0.00	5.89	9.64	0.00	9.64	0.00	1.61	0.27	0.00	1.87	0.00	46.31	0.00	0.	0.00
593	13.000	21.70	0.00	0.00	0.00	5.88	9.64	0.00	9.64	0.00	1.61	0.27	0.00	1.87	0.00	46.62	0.00	0.	0.00
594	12.800	21.70	0.00	0.00	0.00	5.88	9.63	0.00	9.63	0.00	1.61	0.27	0.00	1.88	0.00	46.92	0.00	0.	0.00

595	12.600	21.70	0.00	0.00	0.00	5.88	9.62	0.00	9.62	0.00	1.61	0.27	0.00	1.88	0.00	47.23	0.00	0.	0.00
596	12.400	21.70	0.00	0.00	0.00	5.88	9.62	0.00	9.62	0.00	1.61	0.27	0.00	1.88	0.00	47.54	0.00	0.	0.00
597	12.200	21.70	0.00	0.00	0.00	5.88	9.61	0.00	9.61	0.00	1.61	0.27	0.00	1.88	0.00	47.85	0.00	0.	0.00
598	12.000	21.70	0.00	0.00	0.00	5.89	9.60	0.00	9.60	0.00	1.61	0.27	0.00	1.88	0.00	48.15	0.00	0.	0.00
599	11.800	21.70	0.00	0.00	0.00	5.89	9.60	0.00	9.60	0.00	1.61	0.27	0.00	1.88	0.00	48.46	0.00	0.	0.00
600	11.600	21.70	0.00	0.00	0.00	5.90	9.59	0.00	9.59	0.00	1.62	0.27	0.00	1.88	0.00	48.77	0.00	0.	0.00
601	11.400	21.70	0.00	0.00	0.00	5.91	9.59	0.00	9.59	0.00	1.62	0.27	0.00	1.88	0.00	49.08	0.00	0.	0.00
602	11.200	21.70	0.00	0.00	0.00	5.91	9.58	0.00	9.58	0.00	1.62	0.27	0.00	1.88	0.00	49.38	0.00	0.	0.00
603	11.000	21.70	0.00	0.00	0.00	5.92	9.57	0.00	9.57	0.00	1.62	0.27	0.00	1.89	0.00	49.69	0.00	0.	0.00
604	10.800	21.70	0.00	0.00	0.00	5.93	9.57	0.00	9.57	0.00	1.62	0.27	0.00	1.89	0.00	50.00	0.00	0.	0.00

FINAL REPORT Black Lake Bayou LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 11 Saline Bayou Winter Projection

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
605	UPR RCH	3.32350	21.70	0.00	0.00	0.00	5.93	9.57	0.00	9.57	0.00	1.62	0.27	0.00	0.00	50.00	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 AREA m³	SURFACE AREA m²	X-SECT PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
605	10.80	10.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
606	10.60	10.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
607	10.40	10.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
608	10.20	10.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
609	10.00	9.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
610	9.80	9.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
611	9.60	9.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
612	9.40	9.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
613	9.20	9.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
614	9.00	8.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
615	8.80	8.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
616	8.60	8.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
617	8.40	8.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
618	8.20	8.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
619	8.00	7.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
620	7.80	7.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
621	7.60	7.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
622	7.40	7.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
623	7.20	7.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
624	7.00	6.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	
625	6.80	6.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012	

626	6.60	6.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
627	6.40	6.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
628	6.20	6.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
629	6.00	5.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
630	5.80	5.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
631	5.60	5.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
632	5.40	5.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
633	5.20	5.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
634	5.00	4.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
635	4.80	4.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
636	4.60	4.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
637	4.40	4.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
638	4.20	4.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
639	4.00	3.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
640	3.80	3.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
641	3.60	3.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
642	3.40	3.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
643	3.20	3.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
644	3.00	2.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
645	2.80	2.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
646	2.60	2.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
647	2.40	2.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
648	2.20	2.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
649	2.00	1.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
650	1.80	1.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
651	1.60	1.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
652	1.40	1.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
653	1.20	1.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
654	1.00	0.80	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
655	0.80	0.60	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
656	0.60	0.40	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
657	0.40	0.20	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012
658	0.20	0.00	3.32350	55.7	0.01182	0.20	4.57	61.52	56229.29	12304.00	281.15	0.00	0.000	0.000	0.012

TOT			10.57		3036380.50	664416.00
AVG		0.0118		4.57	61.52	281.15
CUM			984.30			

********** 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	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	
605	10.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
606	10.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
607	10.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
608	10.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
609	9.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
610	9.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00

611	9.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
612	9.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
613	9.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
614	8.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
615	8.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
616	8.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
617	8.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
618	8.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
619	7.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
620	7.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
621	7.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
622	7.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
623	7.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
624	6.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
625	6.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
626	6.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
627	6.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
628	6.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
629	5.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
630	5.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
631	5.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
632	5.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
633	5.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
634	4.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
635	4.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
636	4.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
637	4.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
638	4.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
639	3.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
640	3.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
641	3.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
642	3.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
643	3.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
644	2.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
645	2.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
646	2.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
647	2.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
648	2.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
649	1.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
650	1.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
651	1.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
652	1.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
653	1.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
654	0.800	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
655	0.600	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
656	0.400	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
657	0.200	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
658	0.000	8.79	0.18	0.06	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.02	0.00	0.12	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.18	0.06	0.00	0.00	0.00	0.00	0.00	4.65			0.02	0.00	0.11	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
605	10.600	21.70	0.00	0.00	0.00	5.94	9.64	0.00	9.64	0.00	1.62	0.27	0.00	1.89	0.00	50.00	0.00	0.	0.00
606	10.400	21.70	0.00	0.00	0.00	5.94	9.71	0.00	9.71	0.00	1.62	0.27	0.00	1.89	0.00	50.00	0.00	0.	0.00
607	10.200	21.70	0.00	0.00	0.00	5.95	9.77	0.00	9.77	0.00	1.62	0.27	0.00	1.89	0.00	50.00	0.00	0.	0.00
608	10.000	21.70	0.00	0.00	0.00	5.95	9.84	0.00	9.84	0.00	1.63	0.27	0.00	1.89	0.00	50.00	0.00	0.	0.00
609	9.800	21.70	0.00	0.00	0.00	5.95	9.91	0.00	9.91	0.00	1.63	0.27	0.00	1.90	0.00	50.00	0.00	0.	0.00
610	9.600	21.70	0.00	0.00	0.00	5.95	9.97	0.00	9.97	0.00	1.63	0.27	0.00	1.90	0.00	50.00	0.00	0.	0.00
611	9.400	21.70	0.00	0.00	0.00	5.95	10.04	0.00	10.04	0.00	1.63	0.27	0.00	1.90	0.00	50.00	0.00	0.	0.00
612	9.200	21.70	0.00	0.00	0.00	5.95	10.10	0.00	10.10	0.00	1.63	0.27	0.00	1.90	0.00	50.00	0.00	0.	0.00
613	9.000	21.70	0.00	0.00	0.00	5.94	10.16	0.00	10.16	0.00	1.64	0.27	0.00	1.91	0.00	50.00	0.00	0.	0.00
614	8.800	21.70	0.00	0.00	0.00	5.94	10.22	0.00	10.22	0.00	1.64	0.27	0.00	1.91	0.00	50.00	0.00	0.	0.00
615	8.600	21.70	0.00	0.00	0.00	5.94	10.28	0.00	10.28	0.00	1.64	0.27	0.00	1.91	0.00	50.00	0.00	0.	0.00
616	8.400	21.70	0.00	0.00	0.00	5.93	10.35	0.00	10.35	0.00	1.64	0.27	0.00	1.91	0.00	50.00	0.00	0.	0.00
617	8.200	21.70	0.00	0.00	0.00	5.93	10.40	0.00	10.40	0.00	1.64	0.27	0.00	1.91	0.00	50.00	0.00	0.	0.00
618	8.000	21.70	0.00	0.00	0.00	5.92	10.46	0.00	10.46	0.00	1.64	0.27	0.00	1.92	0.00	50.00	0.00	0.	0.00
619	7.800	21.70	0.00	0.00	0.00	5.92	10.52	0.00	10.52	0.00	1.65	0.27	0.00	1.92	0.00	50.00	0.00	0.	0.00
620	7.600	21.70	0.00	0.00	0.00	5.91	10.58	0.00	10.58	0.00	1.65	0.27	0.00	1.92	0.00	50.00	0.00	0.	0.00
621	7.400	21.70	0.00	0.00	0.00	5.90	10.64	0.00	10.64	0.00	1.65	0.27	0.00	1.92	0.00	50.00	0.00	0.	0.00
622	7.200	21.70	0.00	0.00	0.00	5.90	10.69	0.00	10.69	0.00	1.65	0.27	0.00	1.92	0.00	50.00	0.00	0.	0.00
623	7.000	21.70	0.00	0.00	0.00	5.89	10.75	0.00	10.75	0.00	1.65	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
624	6.800	21.70	0.00	0.00	0.00	5.88	10.80	0.00	10.80	0.00	1.65	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
625	6.600	21.70	0.00	0.00	0.00	5.87	10.86	0.00	10.86	0.00	1.66	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
626	6.400	21.70	0.00	0.00	0.00	5.86	10.91	0.00	10.91	0.00	1.66	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
627	6.200	21.70	0.00	0.00	0.00	5.85	10.96	0.00	10.96	0.00	1.66	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
628	6.000	21.70	0.00	0.00	0.00	5.84	11.01	0.00	11.01	0.00	1.66	0.27	0.00	1.93	0.00	50.00	0.00	0.	0.00
629	5.800	21.70	0.00	0.00	0.00	5.83	11.07	0.00	11.07	0.00	1.66	0.27	0.00	1.94	0.00	50.00	0.00	0.	0.00
630	5.600	21.70	0.00	0.00	0.00	5.82	11.12	0.00	11.12	0.00	1.66	0.27	0.00	1.94	0.00	50.00	0.00	0.	0.00
631	5.400	21.70	0.00	0.00	0.00	5.81	11.17	0.00	11.17	0.00	1.67	0.27	0.00	1.94	0.00	50.00	0.00	0.	0.00
632	5.200	21.70	0.00	0.00	0.00	5.80	11.22	0.00	11.22	0.00	1.67	0.28	0.00	1.94	0.00	50.00	0.00	0.	0.00
633	5.000	21.70	0.00	0.00	0.00	5.79	11.26	0.00	11.26	0.00	1.67	0.28	0.00	1.94	0.00	50.00	0.00	0.	0.00
634	4.800	21.70	0.00	0.00	0.00	5.78	11.31	0.00	11.31	0.00	1.67	0.28	0.00	1.95	0.00	50.00	0.00	0.	0.00
635	4.600	21.70	0.00	0.00	0.00	5.77	11.36	0.00	11.36	0.00	1.67	0.28	0.00	1.95	0.00	50.00	0.00	0.	0.00
636	4.400	21.70	0.00	0.00	0.00	5.76	11.41	0.00	11.41	0.00	1.67	0.28	0.00	1.95	0.00	50.00	0.00	0.	0.00
637	4.200	21.70	0.00	0.00	0.00	5.74	11.45	0.00	11.45	0.00	1.68	0.28	0.00	1.95	0.00	50.00	0.00	0.	0.00
638	4.000	21.70	0.00	0.00	0.00	5.73	11.50	0.00	11.50	0.00	1.68	0.28	0.00	1.95	0.00	50.00	0.00	0.	0.00
639	3.800	21.70	0.00	0.00	0.00	5.72	11.54	0.00	11.54	0.00	1.68	0.28	0.00	1.96	0.00	50.00	0.00	0.	0.00
640	3.600	21.70	0.00	0.00	0.00	5.71	11.59	0.00	11.59	0.00	1.68	0.28	0.00	1.96	0.00	50.00	0.00	0.	0.00
641	3.400	21.70	0.00	0.00	0.00	5.69	11.63	0.00	11.63	0.00	1.68	0.28	0.00	1.96	0.00	50.00	0.00	0.	0.00
642	3.200	21.70	0.00	0.00	0.00	5.68	11.68	0.00	11.68	0.00	1.68	0.28	0.00	1.96	0.00	50.00	0.00	0.	0.00
643	3.000	21.70	0.00	0.00	0.00	5.67	11.72	0.00	11.72	0.00	1.68	0.28	0.00	1.96	0.00	50.00	0.00	0.	0.00
644	2.800	21.70	0.00	0.00	0.00	5.66	11.76	0.00	11.76	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00
645	2.600	21.70	0.00	0.00	0.00	5.64	11.80	0.00	11.80	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00
646	2.400	21.70	0.00	0.00	0.00	5.63	11.85	0.00	11.85	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00
647	2.200	21.70	0.00	0.00	0.00	5.62	11.89	0.00	11.89	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00

648	2.000	21.70	0.00	0.00	0.00	5.60	11.93	0.00	11.93	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00
649	1.800	21.70	0.00	0.00	0.00	5.59	11.97	0.00	11.97	0.00	1.69	0.28	0.00	1.97	0.00	50.00	0.00	0.	0.00
650	1.600	21.70	0.00	0.00	0.00	5.58	12.01	0.00	12.01	0.00	1.70	0.28	0.00	1.98	0.00	50.00	0.00	0.	0.00
651	1.400	21.70	0.00	0.00	0.00	5.56	12.04	0.00	12.04	0.00	1.70	0.28	0.00	1.98	0.00	50.00	0.00	0.	0.00
652	1.200	21.70	0.00	0.00	0.00	5.55	12.08	0.00	12.08	0.00	1.70	0.28	0.00	1.98	0.00	50.00	0.00	0.	0.00
653	1.000	21.70	0.00	0.00	0.00	5.54	12.12	0.00	12.12	0.00	1.70	0.28	0.00	1.98	0.00	50.00	0.00	0.	0.00
654	0.800	21.70	0.00	0.00	0.00	5.52	12.16	0.00	12.16	0.00	1.70	0.28	0.00	1.98	0.00	50.00	0.00	0.	0.00
655	0.600	21.70	0.00	0.00	0.00	5.51	12.20	0.00	12.20	0.00	1.70	0.28	0.00	1.99	0.00	50.00	0.00	0.	0.00
656	0.400	21.70	0.00	0.00	0.00	5.49	12.23	0.00	12.23	0.00	1.70	0.28	0.00	1.99	0.00	50.00	0.00	0.	0.00
657	0.200	21.70	0.00	0.00	0.00	5.48	12.27	0.00	12.27	0.00	1.71	0.28	0.00	1.99	0.00	50.00	0.00	0.	0.00
658	0.000	21.70	0.00	0.00	0.00	5.47	12.30	0.00	12.30	0.00	1.71	0.28	0.00	1.99	0.00	50.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Black Lake Bayou Winter Projection

TRAVEL TIME = 984.30 DAYS

MAXIMUM EFFLUENT = 75.03 PERCENT

FLOW = 0.47098 TO 3.32350 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00010 TO 0.05989 m/s
DEPTH = 1.21 TO 5.68 m
WIDTH = 10.14 TO ****** m

BOD DECAY = 0.06 TO 0.06 per day
NH3 DECAY = 0.11 TO 0.12 per day
SOD = 1.95 TO 5.29 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.14 TO 1.08 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 20.10 TO 21.70 deg C
DISSOLVED OXYGEN = 5.06 TO 7.79 mg/L

FINAL REPORT Praire LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 8 Praire Winter Projection

********** 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
549	HDWTR	0.85650	21.10	0.00	0.00	0.00	5.76	7.74	0.00	7.74	0.00	1.66	0.29	0.00	0.00	75.00	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	PRISM m³	TIDAL VELO m/s	TIDAL m²/s	DISPRSN m/s	MEAN VELO m/s
549	6.00	5.80	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
550	5.80	5.60	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
551	5.60	5.40	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
552	5.40	5.20	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
553	5.20	5.00	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
554	5.00	4.80	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
555	4.80	4.60	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
556	4.60	4.40	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
557	4.40	4.20	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
558	4.20	4.00	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
559	4.00	3.80	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
560	3.80	3.60	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
561	3.60	3.40	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
562	3.40	3.20	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
563	3.20	3.00	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
564	3.00	2.80	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
565	2.80	2.60	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
566	2.60	2.40	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
567	2.40	2.20	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
568	2.20	2.00	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
569	2.00	1.80	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
570	1.80	1.60	0.85650	0.0	0.00036	6.40	0.91	2604.00	473928.03	520800.00	2369.64	0.00	0.000	0.000	0.000	
TOT					140.89			10426417.0011457600.00								
AVG				0.0004			0.91	2604.00			2369.64					
CUM					140.89											

********** 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 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
549	5.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
550	5.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
551	5.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
552	5.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
553	5.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
554	4.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
555	4.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
556	4.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
557	4.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
558	4.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
559	3.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00

560	3.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
561	3.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
562	3.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
563	3.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
564	2.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
565	2.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
566	2.400	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
567	2.200	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
568	2.000	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
569	1.800	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
570	1.600	8.90	0.90	0.08	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.02	0.00	0.12	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.88	0.08	0.00	0.00	0.00	0.00	0.00	1.96			0.02	0.00	0.11	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
549	5.800	21.10	0.00	0.00	0.00	7.21	10.54	0.00	10.54	0.00	1.66	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
550	5.600	21.10	0.00	0.00	0.00	7.28	12.35	0.00	12.35	0.00	1.66	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
551	5.400	21.10	0.00	0.00	0.00	7.20	13.53	0.00	13.53	0.00	1.66	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
552	5.200	21.10	0.00	0.00	0.00	7.12	14.30	0.00	14.30	0.00	1.66	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
553	5.000	21.10	0.00	0.00	0.00	7.07	14.80	0.00	14.80	0.00	1.66	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
554	4.800	21.10	0.00	0.00	0.00	7.04	15.12	0.00	15.12	0.00	1.67	0.29	0.00	1.95	0.00	75.00	0.00	0.	0.00
555	4.600	21.10	0.00	0.00	0.00	7.02	15.33	0.00	15.33	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
556	4.400	21.10	0.00	0.00	0.00	7.00	15.47	0.00	15.47	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
557	4.200	21.10	0.00	0.00	0.00	6.99	15.56	0.00	15.56	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
558	4.000	21.10	0.00	0.00	0.00	6.99	15.62	0.00	15.62	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
559	3.800	21.10	0.00	0.00	0.00	6.98	15.65	0.00	15.65	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
560	3.600	21.10	0.00	0.00	0.00	6.98	15.68	0.00	15.68	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
561	3.400	21.10	0.00	0.00	0.00	6.98	15.69	0.00	15.69	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
562	3.200	21.10	0.00	0.00	0.00	6.98	15.70	0.00	15.70	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
563	3.000	21.10	0.00	0.00	0.00	6.98	15.71	0.00	15.71	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
564	2.800	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
565	2.600	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
566	2.400	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
567	2.200	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
568	2.000	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
569	1.800	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00
570	1.600	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	1.96	0.00	75.00	0.00	0.	0.00

FINAL REPORT Praire LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
REACH NO. 9 Bayou Baubeaux Winter Projection

********** 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
571	UPR RCH	0.85650	21.10	0.00	0.00	0.00	6.98	15.72	0.00	15.72	0.00	1.67	0.29	0.00	0.00	75.00	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
571	1.60	1.40	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
572	1.40	1.20	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
573	1.20	1.00	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
574	1.00	0.80	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
575	0.80	0.60	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
576	0.60	0.40	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
577	0.40	0.20	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
578	0.20	0.00	0.85650	0.0	0.00450	0.51	3.12	61.00	38064.00	12200.00	190.32	0.00	0.000	0.000	0.005
TOT					4.11				304512.00	97600.00					
AVG				0.0045			3.12	61.00			190.32				
CUM					145.01										

********** 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 *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	ORGN SRCE *	NH3 RATE 1/da	NH3 SRCE *	NH3 PROD **	NH3 PROD **	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
571	1.400	8.88	0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.02	0.00	0.12	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00				
572	1.200	8.87	0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.83	1.83	1.83	0.02	0.00	0.12	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00				
573	1.000	8.86	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.84	1.84	1.84	0.02	0.00	0.12	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00				
574	0.800	8.85	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.02	0.00	0.12	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00				
575	0.600	8.83	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.86	1.86	1.86	0.02	0.00	0.12	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00				
576	0.400	8.82	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.86	1.86	1.86	0.02	0.00	0.12	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00				
577	0.200	8.81	0.26	0.09	0.00	0.00	0.00	0.00	0.00	1.87	1.87	1.87	0.02	0.00	0.12	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00				
578	0.000	8.79	0.27	0.09	0.00	0.00	0.00	0.00	0.00	1.88	1.88	1.88	0.02	0.00	0.12	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00				
AVG 20 DEG C RATE			0.26	0.08	0.00	0.00	0.00	0.00	0.00	1.69			0.02	0.00	0.11	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 µg/L	CHL A	MACRO	COLI #/100mL	NCM

571	1.400	21.18	0.00	0.00	0.00	7.13	16.25	0.00	16.25	0.00	1.67	0.29	0.00	1.97	0.00	70.88	0.00	0.	0.00
572	1.200	21.25	0.00	0.00	0.00	7.19	16.75	0.00	16.75	0.00	1.68	0.29	0.00	1.97	0.00	66.75	0.00	0.	0.00
573	1.000	21.33	0.00	0.00	0.00	7.18	17.23	0.00	17.23	0.00	1.68	0.29	0.00	1.98	0.00	62.62	0.00	0.	0.00
574	0.800	21.40	0.00	0.00	0.00	7.09	17.69	0.00	17.69	0.00	1.69	0.29	0.00	1.98	0.00	58.50	0.00	0.	0.00
575	0.600	21.48	0.00	0.00	0.00	6.94	18.12	0.00	18.12	0.00	1.69	0.29	0.00	1.98	0.00	54.38	0.00	0.	0.00
576	0.400	21.55	0.00	0.00	0.00	6.74	18.54	0.00	18.54	0.00	1.70	0.29	0.00	1.99	0.00	50.25	0.00	0.	0.00
577	0.200	21.62	0.00	0.00	0.00	6.50	18.93	0.00	18.93	0.00	1.70	0.29	0.00	1.99	0.00	46.12	0.00	0.	0.00
578	0.000	21.70	0.00	0.00	0.00	6.21	19.31	0.00	19.31	0.00	1.71	0.29	0.00	2.00	0.00	42.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Praire Winter Projection

TRAVEL TIME = 145.01 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 0.85650 TO 0.85650 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00036 TO 0.00450 m/s
DEPTH = 0.91 TO 3.12 m
WIDTH = 61.00 TO ****** m

BOD DECAY = 0.08 TO 0.09 per day
NH3 DECAY = 0.12 TO 0.12 per day
SOD = 1.82 TO 2.10 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.26 TO 0.90 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 21.10 TO 21.70 deg C
DISSOLVED OXYGEN = 6.21 TO 7.28 mg/L

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and Winter Projection

REACH SUMMARY REPORT FOR Black Lake Bayou

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	Black Lake Bayou	125.60	111.60	14.00	4.46	0.60790	0.03630	1.438	10.30	21.465	0.119	4.719	33.81
2	Black Lake Bayou	111.60	77.40	34.20	7.56	1.18621	0.05233	1.427	11.71	41.885	0.172	4.683	38.43
3	Black Lake Bayou	77.40	50.40	27.00	6.36	1.45411	0.04915	1.881	14.27	51.345	0.161	6.171	46.81
4	Black Lake	50.40	35.80	14.60	217.90	1.60191	0.00078	1.520	1297.00	56.563	0.003	4.987	4255.46
5	Clear Lake	35.80	24.60	11.20	671.67	0.85650	0.00019	4.970	1699.00	30.243	0.001	16.307	5574.42

6 Black Lake Bayou	24.60	18.00	6.60	55.72	0.85650	0.00137	5.680	110.00	30.243	0.004	18.636	360.91
7 Saline Bayou	18.00	16.00	2.00	5.86	2.46700	0.00395	5.680	110.00	87.110	0.013	18.636	360.91
10 Saline Bayou	16.00	10.80	5.20	4.18	3.32350	0.01438	4.570	50.56	117.353	0.047	14.994	165.89
11 Saline Bayou	10.80	0.00	10.80	10.57	3.32350	0.01182	4.570	61.52	117.353	0.039	14.994	201.85

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

REACH SUMMARY REPORT FOR Praire

RCH NO.	REACH NAME	BEGIN DIST	ENDING DIST	REACH LENGTH	TRAVEL TIME	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH
		km	km	km	days	m3/s	m/s	m	m	cfs	fps	ft	ft
8	Praire	6.00	1.60	4.40	140.89	0.85650	0.00036	0.910	2604.00	30.243	0.001	2.986	8543.72
9	Bayou Baubeaux	1.60	0.00	1.60	4.11	0.85650	0.00450	3.120	61.00	30.243	0.015	10.237	200.14

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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	100.	0.	-211.	0.	0.	0.	1.	0.	0.	104.	0.	9.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-215.1	215.1	0.00
2	211.	0.	-217.	0.	0.	0.	1.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-221.7	221.7	0.00
3	217.	0.	-223.	0.	0.	0.	1.	0.	0.	0.	0.	9.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-228.0	228.0	0.00
4	223.	0.	-229.	0.	0.	0.	1.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-234.0	234.0	0.00
5	229.	0.	-235.	0.	0.	0.	1.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-239.7	239.7	0.00
6	235.	0.	-241.	0.	0.	0.	1.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-245.2	245.2	0.00
7	241.	0.	-246.	0.	0.	0.	1.	0.	0.	0.	0.	8.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-250.5	250.5	0.00
8	246.	0.	-251.	0.	0.	0.	1.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-255.5	255.5	0.00
9	251.	0.	-256.	0.	0.	0.	1.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-260.4	260.4	0.00
10	256.	0.	-260.	0.	0.	0.	1.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-265.0	265.0	0.00
11	260.	0.	-265.	0.	0.	0.	1.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-269.5	269.5	0.00
12	265.	0.	-269.	0.	0.	0.	1.	0.	0.	0.	0.	7.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-273.8	273.8	0.00
13	269.	0.	-273.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-277.9	277.9	0.00
14	273.	0.	-277.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-281.9	281.9	0.00
15	277.	0.	-281.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-285.7	285.7	0.00
16	281.	0.	-285.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-289.4	289.4	0.00
17	285.	0.	-288.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-293.0	293.0	0.00
18	288.	0.	-292.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-296.5	296.5	0.00
19	292.	0.	-295.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-299.8	299.8	0.00
20	295.	0.	-298.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	1.	0.	0.	-303.1	303.1	0.00
21	298.	0.	-302.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-306.2	306.2	0.00
22	302.	0.	-305.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-309.2	309.2	0.00
23	305.	0.	-308.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-312.2	312.2	0.00
24	308.	0.	-310.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-315.1	315.1	0.00
25	310.	0.	-313.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-317.8	317.8	0.00
26	313.	0.	-316.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-320.6	320.6	0.00
27	316.	0.	-319.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-323.2	323.2	0.00
28	319.	0.	-321.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-325.8	325.8	0.00
29	321.	0.	-324.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-328.3	328.3	0.00
30	324.	0.	-326.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-330.8	330.8	0.00
31	326.	0.	-328.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-333.2	333.2	0.00
32	328.	0.	-331.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-335.5	335.5	0.00
33	331.	0.	-333.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-337.8	337.8	0.00
34	333.	0.	-335.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-340.0	340.0	0.00
35	335.	0.	-338.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-342.2	342.2	0.00
36	338.	0.	-340.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-344.4	344.4	0.00
37	340.	0.	-342.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-346.5	346.5	0.00
38	342.	0.	-344.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-348.6	348.6	0.00
39	344.	0.	-346.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-350.7	350.7	0.00
40	346.	0.	-348.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-352.7	352.7	0.00
41	348.	0.	-350.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-354.6	354.6	0.00
42	350.	0.	-352.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-356.6	356.6	0.00
43	352.	0.	-354.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-358.5	358.5	0.00
44	354.	0.	-356.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-360.4	360.4	0.00
45	356.	0.	-358.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-362.3	362.3	0.00
46	358.	0.	-359.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-364.1	364.1	0.00

47	359.	0.	-361.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-366.0	366.0	0.00
48	361.	0.	-363.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-367.8	367.8	0.00
49	363.	0.	-365.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-369.5	369.5	0.00
50	365.	0.	-367.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-371.3	371.3	0.00
51	367.	0.	-368.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-373.0	373.0	0.00
52	368.	0.	-370.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-374.8	374.8	0.00
53	370.	0.	-372.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-376.5	376.5	0.00
54	372.	0.	-373.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-378.2	378.2	0.00
55	373.	0.	-375.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-379.9	379.9	0.00
56	375.	0.	-377.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-381.5	381.5	0.00
57	377.	0.	-378.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-383.2	383.2	0.00
58	378.	0.	-380.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-384.8	384.8	0.00
59	380.	0.	-382.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-386.4	386.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
60	382.	0.	-383.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-388.1	388.1	0.00
61	383.	0.	-385.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-389.7	389.7	0.00
62	385.	0.	-387.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-391.3	391.3	0.00
63	387.	0.	-388.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-392.8	392.8	0.00
64	388.	0.	-390.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-394.4	394.4	0.00
65	390.	0.	-391.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-396.0	396.0	0.00
66	391.	0.	-393.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-397.6	397.6	0.00
67	393.	0.	-394.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-399.1	399.1	0.00
68	394.	0.	-396.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-400.7	400.7	0.00
69	396.	0.	-397.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-402.2	402.2	0.00
70	397.	0.	-399.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-4.	0.	0.	0.	2.	0.	0.	-403.7	403.7	0.00
71	399.	0.	-400.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-405.6	405.6	0.00
72	400.	0.	-401.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-406.8	406.8	0.00
73	401.	0.	-403.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-408.0	408.0	0.00
74	403.	0.	-404.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-409.2	409.2	0.00
75	404.	0.	-405.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-410.5	410.5	0.00
76	405.	0.	-406.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-411.7	411.7	0.00
77	406.	0.	-407.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-413.0	413.0	0.00
78	407.	0.	-409.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-414.2	414.2	0.00
79	409.	0.	-410.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-415.5	415.5	0.00
80	410.	0.	-411.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-416.7	416.7	0.00
81	411.	0.	-413.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-418.0	418.0	0.00
82	413.	0.	-414.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-419.3	419.3	0.00
83	414.	0.	-415.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-420.6	420.6	0.00
84	415.	0.	-416.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-421.9	421.9	0.00
85	416.	0.	-418.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-423.2	423.2	0.00
86	418.	0.	-419.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-424.5	424.5	0.00
87	419.	0.	-420.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-425.8	425.8	0.00
88	420.	0.	-422.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-427.1	427.1	0.00
89	422.	0.	-423.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-428.4	428.4	0.00
90	423.	0.	-424.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-429.7	429.7	0.00
91	424.	0.	-426.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-431.0	431.0	0.00
92	426.	0.	-427.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-432.3	432.3	0.00
93	427.	0.	-428.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-433.7	433.7	0.00
94	428.	0.	-429.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-435.0	435.0	0.00
95	429.	0.	-431.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-436.3	436.3	0.00
96	431.	0.	-432.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-437.7	437.7	0.00
97	432.	0.	-433.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-439.0	439.0	0.00
98	433.	0.	-435.	0.	0.	0.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-440.3	440.3	0.00
99	435.	0.	-436.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-441.7	441.7	0.00
100	436.	0.	-437.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-443.0	443.0	0.00
101	437.	0.	-439.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-444.4	444.4	0.00
102	439.	0.	-440.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-445.7	445.7	0.00
103	440.	0.	-442.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	1.	0.	0.	-447.1	447.1	0.00
104	442.	0.	-443.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-448.4	448.4	0.00
105	443.	0.	-444.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-449.8	449.8	0.00

106	444.	0.	-446.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-451.1	451.1	0.00
107	446.	0.	-447.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-452.5	452.5	0.00
108	447.	0.	-448.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-453.8	453.8	0.00
109	448.	0.	-450.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-455.2	455.2	0.00
110	450.	0.	-451.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-456.5	456.5	0.00
111	451.	0.	-452.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-457.9	457.9	0.00
112	452.	0.	-454.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-459.3	459.3	0.00
113	454.	0.	-455.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-460.6	460.6	0.00
114	455.	0.	-456.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-462.0	462.0	0.00
115	456.	0.	-458.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-463.4	463.4	0.00
116	458.	0.	-459.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-464.7	464.7	0.00
117	459.	0.	-461.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-466.1	466.1	0.00
118	461.	0.	-462.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-467.5	467.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
119	462.	0.	-510.	0.	0.	0.	1.	0.	0.	46.	0.	6.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-516.1	516.1	0.00
120	510.	0.	-513.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-518.4	518.4	0.00
121	513.	0.	-515.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-520.6	520.6	0.00
122	515.	0.	-517.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-522.9	522.9	0.00
123	517.	0.	-519.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-525.0	525.0	0.00
124	519.	0.	-521.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-527.2	527.2	0.00
125	521.	0.	-524.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-529.3	529.3	0.00
126	524.	0.	-526.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-531.3	531.3	0.00
127	526.	0.	-528.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-533.4	533.4	0.00
128	528.	0.	-530.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-535.4	535.4	0.00
129	530.	0.	-532.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-537.4	537.4	0.00
130	532.	0.	-534.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-539.3	539.3	0.00
131	534.	0.	-536.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-541.3	541.3	0.00
132	536.	0.	-537.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-543.2	543.2	0.00
133	537.	0.	-539.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-545.1	545.1	0.00
134	539.	0.	-541.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-546.9	546.9	0.00
135	541.	0.	-543.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-548.8	548.8	0.00
136	543.	0.	-545.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-550.6	550.6	0.00
137	545.	0.	-547.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-552.4	552.4	0.00
138	547.	0.	-548.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-554.2	554.2	0.00
139	548.	0.	-550.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-556.0	556.0	0.00
140	550.	0.	-552.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-557.7	557.7	0.00
141	552.	0.	-554.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-559.4	559.4	0.00
142	554.	0.	-585.	0.	0.	0.	1.	0.	0.	29.	0.	6.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-591.2	591.2	0.00
143	585.	0.	-588.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-593.6	593.6	0.00
144	588.	0.	-590.	0.	0.	0.	1.	0.	0.	0.	0.	6.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-595.9	595.9	0.00
145	590.	0.	-592.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-598.2	598.2	0.00
146	592.	0.	-595.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-600.4	600.4	0.00
147	595.	0.	-597.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-602.7	602.7	0.00
148	597.	0.	-599.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-604.9	604.9	0.00
149	599.	0.	-601.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-607.0	607.0	0.00
150	601.	0.	-603.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-609.1	609.1	0.00
151	603.	0.	-605.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-611.2	611.2	0.00
152	605.	0.	-607.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-613.3	613.3	0.00
153	607.	0.	-609.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-615.3	615.3	0.00
154	609.	0.	-611.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-617.3	617.3	0.00
155	611.	0.	-613.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-619.3	619.3	0.00
156	613.	0.	-615.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-621.3	621.3	0.00
157	615.	0.	-617.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-623.2	623.2	0.00
158	617.	0.	-619.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-625.1	625.1	0.00
159	619.	0.	-621.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-627.0	627.0	0.00
160	621.	0.	-623.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-628.9	628.9	0.00
161	623.	0.	-625.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-630.8	630.8	0.00
162	625.	0.	-627.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-632.6	632.6	0.00
163	627.	0.	-629.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-634.4	634.4	0.00
164	629.	0.	-630.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-636.2	636.2	0.00

165	630.	0.	-632.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-638.0	638.0	0.00
166	632.	0.	-634.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-639.8	639.8	0.00
167	634.	0.	-636.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-641.6	641.6	0.00
168	636.	0.	-637.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-643.3	643.3	0.00
169	637.	0.	-639.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-645.0	645.0	0.00
170	639.	0.	-641.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-646.8	646.8	0.00
171	641.	0.	-643.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-648.5	648.5	0.00
172	643.	0.	-644.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-650.2	650.2	0.00
173	644.	0.	-646.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-651.8	651.8	0.00
174	646.	0.	-648.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-653.5	653.5	0.00
175	648.	0.	-649.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-655.2	655.2	0.00
176	649.	0.	-651.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-656.8	656.8	0.00
177	651.	0.	-653.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-658.5	658.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
178	653.	0.	-654.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-660.1	660.1	0.00
179	654.	0.	-656.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-661.7	661.7	0.00
180	656.	0.	-657.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-663.3	663.3	0.00
181	657.	0.	-659.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-665.0	665.0	0.00
182	659.	0.	-661.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-666.6	666.6	0.00
183	661.	0.	-662.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-668.2	668.2	0.00
184	662.	0.	-664.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-669.7	669.7	0.00
185	664.	0.	-665.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-671.3	671.3	0.00
186	665.	0.	-667.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-672.9	672.9	0.00
187	667.	0.	-669.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-674.5	674.5	0.00
188	669.	0.	-670.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-676.0	676.0	0.00
189	670.	0.	-672.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-677.6	677.6	0.00
190	672.	0.	-673.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-679.1	679.1	0.00
191	673.	0.	-675.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-680.7	680.7	0.00
192	675.	0.	-676.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-682.2	682.2	0.00
193	676.	0.	-678.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-683.7	683.7	0.00
194	678.	0.	-679.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-685.3	685.3	0.00
195	679.	0.	-681.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-686.8	686.8	0.00
196	681.	0.	-682.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-688.3	688.3	0.00
197	682.	0.	-684.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-689.8	689.8	0.00
198	684.	0.	-685.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-691.3	691.3	0.00
199	685.	0.	-687.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-692.9	692.9	0.00
200	687.	0.	-688.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-694.4	694.4	0.00
201	688.	0.	-690.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-695.9	695.9	0.00
202	690.	0.	-691.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-697.4	697.4	0.00
203	691.	0.	-693.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-698.9	698.9	0.00
204	693.	0.	-694.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-700.4	700.4	0.00
205	694.	0.	-696.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-701.8	701.8	0.00
206	696.	0.	-697.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-703.3	703.3	0.00
207	697.	0.	-699.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-704.8	704.8	0.00
208	699.	0.	-700.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-706.3	706.3	0.00
209	700.	0.	-702.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-707.8	707.8	0.00
210	702.	0.	-703.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-709.3	709.3	0.00
211	703.	0.	-705.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-710.7	710.7	0.00
212	705.	0.	-706.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-712.2	712.2	0.00
213	706.	0.	-708.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-713.7	713.7	0.00
214	708.	0.	-709.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-715.2	715.2	0.00
215	709.	0.	-711.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-716.6	716.6	0.00
216	711.	0.	-712.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-718.1	718.1	0.00
217	712.	0.	-714.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-719.6	719.6	0.00
218	714.	0.	-715.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-721.0	721.0	0.00
219	715.	0.	-716.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-722.5	722.5	0.00
220	716.	0.	-718.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-723.9	723.9	0.00
221	718.	0.	-719.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-725.4	725.4	0.00
222	719.	0.	-721.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-726.9	726.9	0.00
223	721.	0.	-722.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-728.3	728.3	0.00

224	722.	0.	-724.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-729.8	729.8	0.00
225	724.	0.	-725.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-731.2	731.2	0.00
226	725.	0.	-727.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-732.7	732.7	0.00
227	727.	0.	-728.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-734.1	734.1	0.00
228	728.	0.	-730.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-735.6	735.6	0.00
229	730.	0.	-731.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-737.0	737.0	0.00
230	731.	0.	-732.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-738.5	738.5	0.00
231	732.	0.	-768.	0.	0.	0.	1.	0.	0.	34.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-774.4	774.4	0.00
232	768.	0.	-770.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-776.5	776.5	0.00
233	770.	0.	-773.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-778.7	778.7	0.00
234	773.	0.	-775.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-780.8	780.8	0.00
235	775.	0.	-777.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-782.8	782.8	0.00
236	777.	0.	-779.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-784.9	784.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
237	779.	0.	-781.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-786.9	786.9	0.00
238	781.	0.	-783.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-788.9	788.9	0.00
239	783.	0.	-785.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-790.9	790.9	0.00
240	785.	0.	-787.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-792.8	792.8	0.00
241	787.	0.	-789.	0.	0.	0.	1.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-5.	0.	0.	0.	2.	0.	0.	-794.8	794.8	0.00
242	789.	0.	-789.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-7.	0.	0.	0.	3.	0.	0.	-797.4	797.4	0.00
243	789.	0.	-789.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-7.	0.	0.	0.	3.	0.	0.	-797.7	797.7	0.00
244	789.	0.	-789.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-7.	0.	0.	0.	3.	0.	0.	-798.0	798.0	0.00
245	789.	0.	-790.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-798.3	798.3	0.00
246	790.	0.	-790.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-798.6	798.6	0.00
247	790.	0.	-790.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-799.0	799.0	0.00
248	790.	0.	-791.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-799.4	799.4	0.00
249	791.	0.	-791.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-799.8	799.8	0.00
250	791.	0.	-792.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-800.3	800.3	0.00
251	792.	0.	-792.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-800.8	800.8	0.00
252	792.	0.	-793.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-801.3	801.3	0.00
253	793.	0.	-793.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-801.8	801.8	0.00
254	793.	0.	-794.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-802.4	802.4	0.00
255	794.	0.	-794.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-803.0	803.0	0.00
256	794.	0.	-795.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-803.6	803.6	0.00
257	795.	0.	-796.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-804.2	804.2	0.00
258	796.	0.	-796.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-804.9	804.9	0.00
259	796.	0.	-797.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-805.5	805.5	0.00
260	797.	0.	-798.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-806.2	806.2	0.00
261	798.	0.	-798.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-806.9	806.9	0.00
262	798.	0.	-799.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-807.6	807.6	0.00
263	799.	0.	-800.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-808.4	808.4	0.00
264	800.	0.	-800.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-809.1	809.1	0.00
265	800.	0.	-801.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-809.9	809.9	0.00
266	801.	0.	-802.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-810.7	810.7	0.00
267	802.	0.	-803.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-811.5	811.5	0.00
268	803.	0.	-804.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-812.3	812.3	0.00
269	804.	0.	-804.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-813.1	813.1	0.00
270	804.	0.	-805.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-814.0	814.0	0.00
271	805.	0.	-806.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-814.8	814.8	0.00
272	806.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-815.7	815.7	0.00
273	807.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-816.6	816.6	0.00
274	808.	0.	-809.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-817.5	817.5	0.00
275	809.	0.	-810.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-818.4	818.4	0.00
276	810.	0.	-811.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-819.3	819.3	0.00
277	811.	0.	-811.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-820.2	820.2	0.00
278	811.	0.	-812.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-821.1	821.1	0.00
279	812.	0.	-813.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-822.1	822.1	0.00
280	813.	0.	-814.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-823.0	823.0	0.00
281	814.	0.	-815.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-824.0	824.0	0.00
282	815.	0.	-816.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-824.9	824.9	0.00

283	816.	0.	-817.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-825.9	825.9	0.00
284	817.	0.	-818.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-826.9	826.9	0.00
285	818.	0.	-819.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-827.9	827.9	0.00
286	819.	0.	-820.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-828.9	828.9	0.00
287	820.	0.	-821.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-829.9	829.9	0.00
288	821.	0.	-822.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-830.9	830.9	0.00
289	822.	0.	-823.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-831.9	831.9	0.00
290	823.	0.	-824.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-832.9	832.9	0.00
291	824.	0.	-825.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-833.9	833.9	0.00
292	825.	0.	-826.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-835.0	835.0	0.00
293	826.	0.	-827.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-836.0	836.0	0.00
294	827.	0.	-828.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-837.0	837.0	0.00
295	828.	0.	-829.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-838.1	838.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
296	829.	0.	-830.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-839.1	839.1	0.00
297	830.	0.	-831.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-840.2	840.2	0.00
298	831.	0.	-832.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-841.2	841.2	0.00
299	832.	0.	-833.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-842.3	842.3	0.00
300	833.	0.	-834.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-843.4	843.4	0.00
301	834.	0.	-836.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-844.4	844.4	0.00
302	836.	0.	-837.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-845.5	845.5	0.00
303	837.	0.	-838.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-846.6	846.6	0.00
304	838.	0.	-839.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-847.7	847.7	0.00
305	839.	0.	-840.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-848.8	848.8	0.00
306	840.	0.	-841.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-849.8	849.8	0.00
307	841.	0.	-842.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-850.9	850.9	0.00
308	842.	0.	-843.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-852.0	852.0	0.00
309	843.	0.	-844.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-853.1	853.1	0.00
310	844.	0.	-845.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-854.2	854.2	0.00
311	845.	0.	-846.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-855.3	855.3	0.00
312	846.	0.	-847.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-856.4	856.4	0.00
313	847.	0.	-849.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-857.5	857.5	0.00
314	849.	0.	-850.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-858.7	858.7	0.00
315	850.	0.	-851.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-859.8	859.8	0.00
316	851.	0.	-852.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-860.9	860.9	0.00
317	852.	0.	-853.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-862.0	862.0	0.00
318	853.	0.	-854.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-863.1	863.1	0.00
319	854.	0.	-855.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-864.2	864.2	0.00
320	855.	0.	-856.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-865.4	865.4	0.00
321	856.	0.	-857.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-866.5	866.5	0.00
322	857.	0.	-859.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-867.6	867.6	0.00
323	859.	0.	-860.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-868.7	868.7	0.00
324	860.	0.	-861.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-869.9	869.9	0.00
325	861.	0.	-862.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-871.0	871.0	0.00
326	862.	0.	-863.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-872.1	872.1	0.00
327	863.	0.	-864.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-873.2	873.2	0.00
328	864.	0.	-865.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-874.4	874.4	0.00
329	865.	0.	-866.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-875.5	875.5	0.00
330	866.	0.	-868.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-876.7	876.7	0.00
331	868.	0.	-869.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-877.8	877.8	0.00
332	869.	0.	-870.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-878.9	878.9	0.00
333	870.	0.	-871.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-880.1	880.1	0.00
334	871.	0.	-872.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-881.2	881.2	0.00
335	872.	0.	-873.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-882.3	882.3	0.00
336	873.	0.	-874.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-883.5	883.5	0.00
337	874.	0.	-876.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-884.6	884.6	0.00
338	876.	0.	-877.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-885.8	885.8	0.00
339	877.	0.	-878.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-886.9	886.9	0.00
340	878.	0.	-879.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-888.1	888.1	0.00
341	879.	0.	-880.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-889.2	889.2	0.00

342	880.	0.	-881.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-890.3	890.3	0.00
343	881.	0.	-882.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-891.5	891.5	0.00
344	882.	0.	-884.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-892.6	892.6	0.00
345	884.	0.	-885.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-893.8	893.8	0.00
346	885.	0.	-886.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-894.9	894.9	0.00
347	886.	0.	-887.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-896.1	896.1	0.00
348	887.	0.	-888.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-897.2	897.2	0.00
349	888.	0.	-889.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-898.4	898.4	0.00
350	889.	0.	-890.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-899.5	899.5	0.00
351	890.	0.	-892.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-900.7	900.7	0.00
352	892.	0.	-893.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-901.8	901.8	0.00
353	893.	0.	-894.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-903.0	903.0	0.00
354	894.	0.	-895.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-904.1	904.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD DECA	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
355	895.	0.	-896.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-905.3	905.3	0.00
356	896.	0.	-897.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-906.4	906.4	0.00
357	897.	0.	-898.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-907.6	907.6	0.00
358	898.	0.	-900.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-908.7	908.7	0.00
359	900.	0.	-901.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-909.9	909.9	0.00
360	901.	0.	-902.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-911.0	911.0	0.00
361	902.	0.	-903.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-912.2	912.2	0.00
362	903.	0.	-904.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-913.3	913.3	0.00
363	904.	0.	-905.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-914.5	914.5	0.00
364	905.	0.	-906.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-915.6	915.6	0.00
365	906.	0.	-908.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-916.8	916.8	0.00
366	908.	0.	-909.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-917.9	917.9	0.00
367	909.	0.	-910.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-919.1	919.1	0.00
368	910.	0.	-911.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-920.2	920.2	0.00
369	911.	0.	-912.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-921.4	921.4	0.00
370	912.	0.	-913.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-922.6	922.6	0.00
371	913.	0.	-914.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-923.7	923.7	0.00
372	914.	0.	-916.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-924.9	924.9	0.00
373	916.	0.	-917.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-926.0	926.0	0.00
374	917.	0.	-918.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-927.2	927.2	0.00
375	918.	0.	-919.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-928.3	928.3	0.00
376	919.	0.	-920.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-1.	-1.	0.	0.	-8.	0.	0.	0.	3.	0.	0.	-929.5	929.5	0.00
377	920.	0.	-886.	0.	0.	0.	1.	0.	0.	0.	0.	394.	-62.	-45.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1530.6	1530.7	0.10
378	886.	0.	-865.	0.	0.	0.	1.	0.	0.	0.	0.	431.	-84.	-45.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1532.5	1532.6	0.13
379	865.	0.	-851.	0.	0.	0.	1.	0.	0.	0.	0.	456.	-102.	-46.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1537.3	1537.5	0.15
380	851.	0.	-841.	0.	0.	0.	1.	0.	0.	0.	0.	475.	-117.	-47.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1542.7	1542.9	0.17
381	841.	0.	-833.	0.	0.	0.	1.	0.	0.	0.	0.	491.	-129.	-48.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1547.8	1547.9	0.18
382	833.	0.	-826.	0.	0.	0.	1.	0.	0.	0.	0.	503.	-139.	-48.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1552.3	1552.5	0.19
383	826.	0.	-821.	0.	0.	0.	1.	0.	0.	0.	0.	514.	-148.	-49.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1556.4	1556.6	0.21
384	821.	0.	-817.	0.	0.	0.	1.	0.	0.	0.	0.	522.	-155.	-50.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1560.0	1560.2	0.22
385	817.	0.	-814.	0.	0.	0.	1.	0.	0.	0.	0.	530.	-161.	-50.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1563.2	1563.4	0.22
386	814.	0.	-811.	0.	0.	0.	1.	0.	0.	0.	0.	536.	-166.	-50.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1566.1	1566.3	0.23
387	811.	0.	-809.	0.	0.	0.	1.	0.	0.	0.	0.	541.	-170.	-51.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1568.6	1568.9	0.24
388	809.	0.	-809.	0.	0.	0.	1.	0.	0.	1.	0.	546.	-174.	-51.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1572.3	1572.6	0.25
389	809.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	549.	-177.	-52.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1574.6	1574.9	0.25
390	808.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	552.	-179.	-52.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1576.6	1576.9	0.26
391	807.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	555.	-181.	-52.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1578.5	1578.8	0.26
392	807.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	557.	-183.	-53.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1580.2	1580.5	0.26
393	807.	0.	-806.	0.	0.	0.	1.	0.	0.	0.	0.	559.	-184.	-53.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1581.8	1582.1	0.27
394	806.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	561.	-185.	-53.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1583.4	1583.7	0.27
395	807.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	562.	-186.	-53.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1584.9	1585.1	0.27
396	807.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	563.	-187.	-54.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1586.3	1586.5	0.27
397	807.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	564.	-188.	-54.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1587.6	1587.9	0.28
398	808.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	565.	-189.	-54.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1589.0	1589.2	0.28
399	808.	0.	-809.	0.	0.	0.	1.	0.	0.	0.	0.	566.	-189.	-54.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1590.2	1590.5	0.28
400	809.	0.	-809.	0.	0.	0.	1.	0.	0.	0.	0.	567.	-189.	-54.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1591.5	1591.8	0.28

401	809.	0.	-810.	0.	0.	0.	1.	0.	0.	0.	0.	567.	-190.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1592.7	1593.0	0.28
402	810.	0.	-811.	0.	0.	0.	1.	0.	0.	0.	0.	568.	-190.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1593.9	1594.2	0.29
403	811.	0.	-812.	0.	0.	0.	1.	0.	0.	0.	0.	568.	-190.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1595.1	1595.4	0.29
404	812.	0.	-812.	0.	0.	0.	1.	0.	0.	0.	0.	568.	-191.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1596.3	1596.6	0.29
405	812.	0.	-813.	0.	0.	0.	1.	0.	0.	0.	0.	569.	-191.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1597.5	1597.8	0.29
406	813.	0.	-814.	0.	0.	0.	1.	0.	0.	0.	0.	569.	-191.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1598.6	1598.9	0.29
407	814.	0.	-815.	0.	0.	0.	1.	0.	0.	0.	0.	569.	-191.	-55.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1599.8	1600.1	0.29
408	815.	0.	-816.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1600.9	1601.2	0.29
409	816.	0.	-817.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1602.0	1602.3	0.29
410	817.	0.	-818.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1603.1	1603.4	0.29
411	818.	0.	-819.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1604.3	1604.5	0.29
412	819.	0.	-820.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1605.4	1605.7	0.29
413	820.	0.	-821.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1606.5	1606.8	0.29

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN
414	821.	0.	-822.	0.	0.	0.	1.	0.	0.	0.	0.	570.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1607.6	1607.9	0.29
415	822.	0.	-823.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1608.7	1609.0	0.30
416	823.	0.	-824.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-191.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1609.8	1610.0	0.30
417	824.	0.	-825.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1610.8	1611.1	0.30
418	825.	0.	-826.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1611.9	1612.2	0.30
419	826.	0.	-827.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1613.0	1613.3	0.30
420	827.	0.	-828.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1614.1	1614.4	0.30
421	828.	0.	-829.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-56.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1615.2	1615.5	0.30
422	829.	0.	-830.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1616.3	1616.6	0.30
423	830.	0.	-831.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1617.3	1617.6	0.30
424	831.	0.	-832.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1618.4	1618.7	0.30
425	832.	0.	-833.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1619.5	1619.8	0.30
426	833.	0.	-834.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1620.6	1620.9	0.30
427	834.	0.	-835.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1621.7	1622.0	0.30
428	835.	0.	-836.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1622.7	1623.0	0.30
429	836.	0.	-837.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1623.8	1624.1	0.30
430	837.	0.	-838.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1624.9	1625.2	0.30
431	838.	0.	-839.	0.	0.	0.	1.	0.	0.	0.	0.	571.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1625.9	1626.2	0.30
432	839.	0.	-840.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1627.0	1627.3	0.30
433	840.	0.	-841.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1628.1	1628.4	0.30
434	841.	0.	-842.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1629.2	1629.5	0.30
435	842.	0.	-843.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1630.2	1630.5	0.30
436	843.	0.	-845.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1631.3	1631.6	0.30
437	845.	0.	-846.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1632.4	1632.7	0.30
438	846.	0.	-847.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1633.4	1633.7	0.30
439	847.	0.	-848.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1634.5	1634.8	0.30
440	848.	0.	-849.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1635.6	1635.9	0.30
441	849.	0.	-850.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1636.6	1636.9	0.30
442	850.	0.	-851.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1637.7	1638.0	0.30
443	851.	0.	-852.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1638.8	1639.1	0.30
444	852.	0.	-853.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1639.8	1640.1	0.30
445	853.	0.	-854.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1640.9	1641.2	0.30
446	854.	0.	-855.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1642.0	1642.3	0.30
447	855.	0.	-856.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1643.0	1643.3	0.30
448	856.	0.	-857.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1644.1	1644.4	0.30
449	857.	0.	-858.	0.	0.	0.	1.	0.	0.	0.	0.	572.	-192.	-57.	0.	0.	-538.	0.	0.	0.	216.	0.	0.	-1645.2	1645.5	0.30
450	858.	0.	-820.	0.	0.	0.	1.	0.	0.	0.	0.	827.	-823.	-244.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2608.3	2609.9	1.58
451	820.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	854.	-824.	-244.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2597.3	2599.0	1.69
452	808.	0.	-804.	0.	0.	0.	1.	0.	0.	0.	0.	864.	-825.	-245.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2594.5	2596.2	1.74
453	804.	0.	-803.	0.	0.	0.	1.	0.	0.	0.	0.	867.	-825.	-245.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2594.3	2596.0	1.75
454	803.	0.	-803.	0.	0.	0.	1.	0.	0.	0.	0.	869.	-825.	-245.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2594.9	2596.7	1.76
455	803.	0.	-804.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-245.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2595.8	2597.6	1.76
456	804.	0.	-805.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2596.8	2598.6	1.77
457	805.	0.	-806.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2597.8	2599.6	1.77
458	806.	0.	-807.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2598.9	2600.6	1.77
459	807.	0.	-808.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2599.9	2601.6	1.77

460	808.	0.	-809.	0.	0.	0.	1.	0.	0.	0.	0.	870.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2600.9	2602.6	1.77
461	809.	0.	-810.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2601.9	2603.6	1.77
462	810.	0.	-811.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2602.9	2604.6	1.77
463	811.	0.	-812.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2603.9	2605.6	1.77
464	812.	0.	-812.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2604.9	2606.6	1.77
465	812.	0.	-813.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2605.9	2607.6	1.77
466	813.	0.	-814.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2606.8	2608.6	1.77
467	814.	0.	-815.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2607.8	2609.6	1.77
468	815.	0.	-816.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2608.8	2610.6	1.77
469	816.	0.	-817.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2609.8	2611.6	1.77
470	817.	0.	-818.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2610.8	2612.6	1.77
471	818.	0.	-819.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2611.8	2613.6	1.77
472	819.	0.	-820.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2612.8	2614.6	1.77

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
473	820.	0.	-821.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2613.8	2615.5	1.77
474	821.	0.	-822.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2614.8	2616.5	1.77
475	822.	0.	-823.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2615.7	2617.5	1.77
476	823.	0.	-824.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2616.7	2618.5	1.77
477	824.	0.	-825.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2617.7	2619.5	1.77
478	825.	0.	-826.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2618.7	2620.5	1.77
479	826.	0.	-827.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2619.7	2621.5	1.77
480	827.	0.	-828.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2620.7	2622.5	1.77
481	828.	0.	-829.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2621.7	2623.4	1.77
482	829.	0.	-830.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2622.7	2624.4	1.77
483	830.	0.	-831.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2623.7	2625.4	1.77
484	831.	0.	-832.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2624.6	2626.4	1.77
485	832.	0.	-833.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2625.6	2627.4	1.77
486	833.	0.	-834.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2626.6	2628.4	1.77
487	834.	0.	-835.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2627.6	2629.4	1.77
488	835.	0.	-836.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2628.6	2630.4	1.77
489	836.	0.	-837.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2629.6	2631.4	1.77
490	837.	0.	-838.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2630.6	2632.3	1.77
491	838.	0.	-839.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2631.6	2633.3	1.77
492	839.	0.	-840.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2632.5	2634.3	1.77
493	840.	0.	-841.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2633.5	2635.3	1.77
494	841.	0.	-842.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2634.5	2636.3	1.77
495	842.	0.	-843.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2635.5	2637.3	1.77
496	843.	0.	-844.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2636.5	2638.3	1.77
497	844.	0.	-845.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2637.5	2639.3	1.77
498	845.	0.	-846.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2638.5	2640.2	1.77
499	846.	0.	-847.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2639.5	2641.2	1.77
500	847.	0.	-848.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2640.4	2642.2	1.77
501	848.	0.	-849.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2641.4	2643.2	1.77
502	849.	0.	-850.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2642.4	2644.2	1.77
503	850.	0.	-851.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2643.4	2645.2	1.77
504	851.	0.	-852.	0.	0.	0.	1.	0.	0.	0.	0.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2644.4	2646.2	1.77
505	852.	0.	-426.	0.	0.	0.	1.	0.	0.	0.	-426.	871.	-825.	-246.	0.	0.	-721.	0.	0.	0.	924.	0.	0.	-2645.4	2647.2	1.77
506	426.	0.	-409.	0.	0.	0.	0.	0.	0.	0.	0.	61.	-61.	-18.	0.	0.	-68.	0.	0.	0.	70.	0.	0.	-556.7	556.9	0.15
507	409.	0.	-396.	0.	0.	0.	0.	0.	0.	0.	0.	64.	-61.	-18.	0.	0.	-68.	0.	0.	0.	71.	0.	0.	-544.0	544.2	0.17
508	396.	0.	-387.	0.	0.	0.	0.	0.	0.	0.	0.	66.	-61.	-18.	0.	0.	-68.	0.	0.	0.	73.	0.	0.	-534.9	535.1	0.18
509	387.	0.	-381.	0.	0.	0.	0.	0.	0.	0.	0.	67.	-61.	-18.	0.	0.	-69.	0.	0.	0.	74.	0.	0.	-528.8	529.0	0.19
510	381.	0.	-377.	0.	0.	0.	0.	0.	0.	0.	0.	68.	-61.	-18.	0.	0.	-69.	0.	0.	0.	76.	0.	0.	-525.0	525.2	0.19
511	377.	0.	-375.	0.	0.	0.	0.	0.	0.	0.	0.	69.	-61.	-18.	0.	0.	-69.	0.	0.	0.	77.	0.	0.	-523.1	523.3	0.20
512	375.	0.	-375.	0.	0.	0.	0.	0.	0.	0.	0.	69.	-61.	-18.	0.	0.	-69.	0.	0.	0.	79.	0.	0.	-522.7	522.9	0.20
513	375.	0.	-375.	0.	0.	0.	0.	0.	0.	0.	0.	69.	-61.	-18.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-523.5	523.7	0.20
514	375.	0.	-377.	0.	0.	0.	0.	0.	0.	0.	0.	68.	-61.	-18.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-525.3	525.5	0.19
515	377.	0.	-380.	0.	0.	0.	0.	0.	0.	0.	0.	67.	-61.	-18.	0.	0.	-69.	0.	0.	0.	84.	0.	0.	-527.9	528.1	0.19
516	380.	0.	-383.	0.	0.	0.	0.	0.	0.	0.	0.	67.	-61.	-18.	0.	0.	-69.	0.	0.	0.	85.	0.	0.	-531.1	531.3	0.19
517	383.	0.	-386.	0.	0.	0.	0.	0.	0.	0.	0.	66.	-61.	-18.	0.	0.	-69.	0.	0.	0.	87.	0.	0.	-534.8	535.0	0.18
518	386.	0.	-390.	0.	0.	0.	0.	0.	0.	0.	0.	65.	-61.	-18.	0.	0.	-69.	0.	0.	0.	88.	0.	0.	-538.9	539.1	0.18

519	390.	0.	-395.	0.	0.	0.	0.	0.	0.	0.	0.	64.	-61.	-18.	0.	0.	-69.	0.	0.	0.	90.	0.	0.	-543.4	543.6	0.17
520	395.	0.	-399.	0.	0.	0.	0.	0.	0.	0.	0.	62.	-61.	-18.	0.	0.	-69.	0.	0.	0.	91.	0.	0.	-548.2	548.4	0.17
521	399.	0.	-404.	0.	0.	0.	0.	0.	0.	0.	0.	61.	-61.	-18.	0.	0.	-69.	0.	0.	0.	93.	0.	0.	-553.2	553.3	0.16
522	404.	0.	-409.	0.	0.	0.	0.	0.	0.	0.	0.	60.	-61.	-18.	0.	0.	-70.	0.	0.	0.	94.	0.	0.	-558.3	558.5	0.15
523	409.	0.	-414.	0.	0.	0.	0.	0.	0.	0.	0.	59.	-61.	-18.	0.	0.	-70.	0.	0.	0.	96.	0.	0.	-563.6	563.8	0.15
524	414.	0.	-420.	0.	0.	0.	0.	0.	0.	0.	0.	57.	-61.	-18.	0.	0.	-70.	0.	0.	0.	97.	0.	0.	-569.1	569.2	0.14
525	420.	0.	-425.	0.	0.	0.	0.	0.	0.	0.	0.	56.	-61.	-18.	0.	0.	-70.	0.	0.	0.	99.	0.	0.	-574.6	574.7	0.13
526	425.	0.	-431.	0.	0.	0.	0.	0.	0.	0.	0.	55.	-61.	-18.	0.	0.	-70.	0.	0.	0.	101.	0.	0.	-580.2	580.3	0.13
527	431.	0.	-436.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-61.	-18.	0.	0.	-70.	0.	0.	0.	102.	0.	0.	-585.9	586.0	0.12
528	436.	0.	-442.	0.	0.	0.	0.	0.	0.	0.	0.	52.	-61.	-18.	0.	0.	-70.	0.	0.	0.	104.	0.	0.	-591.6	591.7	0.12
529	442.	0.	-448.	0.	0.	0.	0.	0.	0.	0.	0.	50.	-61.	-18.	0.	0.	-70.	0.	0.	0.	105.	0.	0.	-597.4	597.5	0.11
530	448.	0.	-453.	0.	0.	0.	0.	0.	0.	0.	0.	49.	-61.	-18.	0.	0.	-70.	0.	0.	0.	107.	0.	0.	-603.2	603.3	0.10
531	453.	0.	-459.	0.	0.	0.	0.	0.	0.	0.	0.	47.	-61.	-18.	0.	0.	-70.	0.	0.	0.	108.	0.	0.	-609.1	609.2	0.10

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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 OUT	TOT IN	TOT
532	459.	0.	-465.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-61.	-18.	0.	0.	-70.	0.	0.	0.	110.	0.	0.	-615.0	615.1	0.09
533	465.	0.	-471.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-61.	-18.	0.	0.	-70.	0.	0.	0.	112.	0.	0.	-620.9	621.0	0.09
534	471.	0.	-477.	0.	0.	0.	0.	0.	0.	0.	0.	43.	-61.	-18.	0.	0.	-71.	0.	0.	0.	113.	0.	0.	-626.8	626.9	0.08
535	477.	0.	-483.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-61.	-18.	0.	0.	-71.	0.	0.	0.	115.	0.	0.	-632.8	632.9	0.07
536	483.	0.	-488.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-61.	-18.	0.	0.	-71.	0.	0.	0.	116.	0.	0.	-638.8	638.8	0.07
537	488.	0.	-494.	0.	0.	0.	0.	0.	0.	0.	0.	39.	-61.	-18.	0.	0.	-71.	0.	0.	0.	118.	0.	0.	-644.7	644.8	0.06
538	494.	0.	-500.	0.	0.	0.	0.	0.	0.	0.	0.	37.	-61.	-18.	0.	0.	-71.	0.	0.	0.	119.	0.	0.	-650.7	650.8	0.06
539	500.	0.	-1199.	0.	0.	0.	0.	0.	0.	687.	0.	58.	-37.	-16.	0.	0.	-116.	0.	0.	0.	122.	0.	0.	-1367.5	1367.6	0.12
540	1199.	0.	-1209.	0.	0.	0.	0.	0.	0.	0.	0.	57.	-39.	-16.	0.	0.	-116.	0.	0.	0.	125.	0.	0.	-1380.3	1380.4	0.12
541	1209.	0.	-1220.	0.	0.	0.	0.	0.	0.	0.	0.	56.	-41.	-16.	0.	0.	-116.	0.	0.	0.	128.	0.	0.	-1393.0	1393.1	0.12
542	1220.	0.	-1231.	0.	0.	0.	0.	0.	0.	0.	0.	55.	-43.	-16.	0.	0.	-116.	0.	0.	0.	131.	0.	0.	-1405.6	1405.7	0.11
543	1231.	0.	-1242.	0.	0.	0.	0.	0.	0.	0.	0.	54.	-44.	-16.	0.	0.	-116.	0.	0.	0.	133.	0.	0.	-1418.3	1418.4	0.11
544	1242.	0.	-1253.	0.	0.	0.	0.	0.	0.	0.	0.	53.	-46.	-16.	0.	0.	-116.	0.	0.	0.	136.	0.	0.	-1431.0	1431.1	0.11
545	1253.	0.	-1264.	0.	0.	0.	0.	0.	0.	0.	0.	52.	-48.	-16.	0.	0.	-116.	0.	0.	0.	139.	0.	0.	-1443.8	1443.9	0.10
546	1264.	0.	-1275.	0.	0.	0.	0.	0.	0.	0.	0.	51.	-49.	-16.	0.	0.	-116.	0.	0.	0.	142.	0.	0.	-1456.7	1456.8	0.10
547	1275.	0.	-1287.	0.	0.	0.	0.	0.	0.	0.	0.	50.	-51.	-16.	0.	0.	-116.	0.	0.	0.	145.	0.	0.	-1469.9	1470.0	0.10
548	1287.	0.	-1298.	0.	0.	0.	0.	0.	0.	0.	0.	49.	-52.	-16.	0.	0.	-116.	0.	0.	0.	148.	0.	0.	-1483.2	1483.3	0.09
579	1298.	459.	-1749.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-51.	0.	0.	0.	55.	0.	0.	-1835.4	1835.5	0.04
580	1749.	0.	-1741.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-51.	0.	0.	0.	55.	0.	0.	-1827.4	1827.5	0.04
581	1741.	0.	-1734.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-51.	0.	0.	0.	56.	0.	0.	-1820.1	1820.1	0.04
582	1734.	0.	-1727.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-51.	0.	0.	0.	56.	0.	0.	-1813.4	1813.4	0.04
583	1727.	0.	-1721.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-29.	-6.	0.	0.	-51.	0.	0.	0.	57.	0.	0.	-1807.2	1807.3	0.04
584	1721.	0.	-1716.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	57.	0.	0.	-1801.7	1801.7	0.04
585	1716.	0.	-1711.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	57.	0.	0.	-1796.7	1796.7	0.04
586	1711.	0.	-1706.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	58.	0.	0.	-1792.2	1792.3	0.04
587	1706.	0.	-1702.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	58.	0.	0.	-1788.3	1788.4	0.04
588	1702.	0.	-1699.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	59.	0.	0.	-1784.9	1785.0	0.04
589	1699.	0.	-1696.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	59.	0.	0.	-1782.0	1782.1	0.04
590	1696.	0.	-1694.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	59.	0.	0.	-1779.6	1779.7	0.04
591	1694.	0.	-1692.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	60.	0.	0.	-1777.7	1777.7	0.04
592	1692.	0.	-1690.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	60.	0.	0.	-1776.2	1776.3	0.04
593	1690.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	61.	0.	0.	-1775.2	1775.2	0.04
594	1689.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	61.	0.	0.	-1774.6	1774.6	0.04
595	1689.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	61.	0.	0.	-1774.4	1774.4	0.04
596	1689.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	62.	0.	0.	-1774.6	1774.7	0.04
597	1689.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	62.	0.	0.	-1775.3	1775.3	0.04
598	1689.	0.	-1690.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	63.	0.	0.	-1776.3	1776.3	0.04
599	1690.	0.	-1692.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	63.	0.	0.	-1777.6	1777.7	0.04
600	1692.	0.	-1694.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	63.	0.	0.	-1779.4	1779.4	0.04
601	1694.	0.	-1696.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	64.	0.	0.	-1781.5	1781.5	0.04
602	1696.	0.	-1698.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	64.	0.	0.	-1783.9	1784.0	0.04
603	1698.	0.	-1701.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	65.	0.	0.	-1786.7	1786.7	0.04
604	1701.	0.	-1704.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-29.	-6.	0.	0.	-51.	0.	0.	0.	65.	0.	0.	-1789.8	1789.8	0.04
605	1704.	0.	-1705.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-35.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1812.1	1812.1	0.05
606	1705.	0.	-1707.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-35.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1813.5	1813.5	0.05
607	1707.	0.	-1707.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-36.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1814.5	1814.6	0.05

608	1707.	0.	-1708.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-36.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1815.3	1815.4	0.05
609	1708.	0.	-1708.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-36.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1815.9	1815.9	0.05
610	1708.	0.	-1708.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-36.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1816.2	1816.2	0.05
611	1708.	0.	-1708.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-37.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1816.2	1816.3	0.05
612	1708.	0.	-1708.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-37.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1816.1	1816.1	0.05
613	1708.	0.	-1707.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-37.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1815.7	1815.7	0.05
614	1707.	0.	-1706.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-37.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1815.1	1815.1	0.05
615	1706.	0.	-1705.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-38.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1814.3	1814.3	0.05
616	1705.	0.	-1704.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-38.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1813.3	1813.4	0.05
617	1704.	0.	-1703.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-38.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1812.1	1812.2	0.05
618	1703.	0.	-1701.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-38.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1810.8	1810.9	0.05
619	1701.	0.	-1699.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-38.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1809.3	1809.4	0.05
620	1699.	0.	-1698.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-39.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1807.7	1807.7	0.05

DISSOLVED OXYGEN LOADING FOR REACH 1: Black Lake Bayou

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
621	1698.	0.	-1695.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-39.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1805.9	1805.9	0.05
622	1695.	0.	-1693.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-39.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1804.0	1804.0	0.05
623	1693.	0.	-1691.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-39.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1801.9	1802.0	0.05
624	1691.	0.	-1689.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-39.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1799.7	1799.8	0.05
625	1689.	0.	-1686.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-40.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1797.4	1797.5	0.05
626	1686.	0.	-1684.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-40.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1795.0	1795.1	0.05
627	1684.	0.	-1681.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-40.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1792.5	1792.5	0.05
628	1681.	0.	-1678.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-40.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1789.9	1789.9	0.05
629	1678.	0.	-1675.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-40.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1787.2	1787.2	0.05
630	1675.	0.	-1672.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1784.4	1784.4	0.06
631	1672.	0.	-1669.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1781.5	1781.5	0.06
632	1669.	0.	-1666.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1778.5	1778.6	0.06
633	1666.	0.	-1663.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1775.5	1775.5	0.06
634	1663.	0.	-1659.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1772.4	1772.4	0.06
635	1659.	0.	-1656.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-41.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1769.2	1769.3	0.06
636	1656.	0.	-1653.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1766.0	1766.1	0.06
637	1653.	0.	-1649.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1762.7	1762.8	0.06
638	1649.	0.	-1646.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1759.4	1759.5	0.06
639	1646.	0.	-1642.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1756.0	1756.1	0.06
640	1642.	0.	-1639.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1752.6	1752.7	0.06
641	1639.	0.	-1635.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-42.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1749.1	1749.2	0.06
642	1635.	0.	-1631.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1745.6	1745.7	0.06
643	1631.	0.	-1628.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1742.1	1742.2	0.06
644	1628.	0.	-1624.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1738.5	1738.6	0.06
645	1624.	0.	-1620.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1734.9	1735.0	0.06
646	1620.	0.	-1616.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1731.3	1731.4	0.06
647	1616.	0.	-1613.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-43.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1727.7	1727.7	0.06
648	1613.	0.	-1609.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1724.0	1724.1	0.06
649	1609.	0.	-1605.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1720.3	1720.4	0.07
650	1605.	0.	-1601.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1716.6	1716.7	0.07
651	1601.	0.	-1597.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1712.9	1713.0	0.07
652	1597.	0.	-1593.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1709.2	1709.2	0.07
653	1593.	0.	-1589.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1705.4	1705.5	0.07
654	1589.	0.	-1586.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1701.7	1701.8	0.07
655	1586.	0.	-1582.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-44.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1698.0	1698.0	0.07
656	1582.	0.	-1578.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-45.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1694.2	1694.3	0.07
657	1578.	0.	-1574.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-45.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1690.5	1690.5	0.07
658	1574.	0.	-1570.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-45.	-8.	0.	0.	-64.	0.	0.	0.	79.	0.	0.	-1686.7	1686.8	0.07

DISSOLVED OXYGEN LOADING FOR REACH 2: Praire

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
549	426.	0.	-534.	0.	0.	0.	0.	0.	0.	0.	0.	718.	-420.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2116.4	2116.5	0.12
550	534.	0.	-539.	0.	0.	0.	0.	0.	0.	0.	0.	688.	-493.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2194.0	2194.1	0.10
551	539.	0.	-533.	0.	0.	0.	0.	0.	0.	0.	0.	724.	-540.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2234.8	2234.9	0.12
552	533.	0.	-527.	0.	0.	0.	0.	0.	0.	0.	0.	755.	-570.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2259.9	2260.0	0.14
553	527.	0.	-523.	0.	0.	0.	0.	0.	0.	0.	0.	777.	-590.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2276.0	2276.1	0.15
554	523.	0.	-521.	0.	0.	0.	0.	0.	0.	0.	0.	791.	-603.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2286.5	2286.6	0.16
555	521.	0.	-519.	0.	0.	0.	0.	0.	0.	0.	0.	800.	-611.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2293.3	2293.4	0.16
556	519.	0.	-518.	0.	0.	0.	0.	0.	0.	0.	0.	807.	-617.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2297.7	2297.9	0.16
557	518.	0.	-518.	0.	0.	0.	0.	0.	0.	0.	0.	810.	-620.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2300.6	2300.8	0.17
558	518.	0.	-517.	0.	0.	0.	0.	0.	0.	0.	0.	813.	-623.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2302.5	2302.6	0.17
559	517.	0.	-517.	0.	0.	0.	0.	0.	0.	0.	0.	815.	-624.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2303.7	2303.9	0.17
560	517.	0.	-517.	0.	0.	0.	0.	0.	0.	0.	0.	816.	-625.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2304.5	2304.7	0.17
561	517.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	817.	-626.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.0	2305.2	0.17
562	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	817.	-626.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.4	2305.5	0.17
563	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	817.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.6	2305.8	0.17
564	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.7	2305.9	0.17
565	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.8	2306.0	0.17
566	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.9	2306.1	0.17
567	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2305.9	2306.1	0.17
568	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2306.0	2306.1	0.17
569	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2306.0	2306.2	0.17
570	516.	0.	-516.	0.	0.	0.	0.	0.	0.	0.	0.	818.	-627.	-70.	0.	0.	-1093.	0.	0.	0.	972.	0.	0.	-2306.0	2306.2	0.17
571	516.	0.	-528.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-52.	-6.	0.	0.	-22.	0.	0.	0.	74.	0.	0.	-607.8	607.8	0.01
572	528.	0.	-532.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-54.	-6.	0.	0.	-22.	0.	0.	0.	70.	0.	0.	-614.4	614.4	0.01
573	532.	0.	-531.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-56.	-6.	0.	0.	-22.	0.	0.	0.	66.	0.	0.	-615.1	615.1	0.01
574	531.	0.	-525.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-57.	-6.	0.	0.	-23.	0.	0.	0.	62.	0.	0.	-610.5	610.5	0.01
575	525.	0.	-514.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-59.	-6.	0.	0.	-23.	0.	0.	0.	58.	0.	0.	-601.3	601.3	0.01
576	514.	0.	-499.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-61.	-6.	0.	0.	-23.	0.	0.	0.	53.	0.	0.	-588.2	588.2	0.02
577	499.	0.	-481.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-62.	-6.	0.	0.	-23.	0.	0.	0.	49.	0.	0.	-571.5	571.5	0.02
578	481.	0.	-459.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-64.	-6.	0.	0.	-23.	0.	0.	0.	45.	0.	0.	-551.7	551.8	0.03

LA-QUAL Winter Projection for Black Lake Bayou, Clear Lake, and
Winter Projection

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m³/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d			
HEADWATER FLOW	1.087	526.2	617.5	0.0	146.9	25.2	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	1.002	441.0	152.8	0.0	152.8	15.3	4.3	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	2.092	901.5	457.0	0.0	245.9	38.5	9.0	0.0	0.0	0.0
WITHDRAWLS	-0.857	-426.5	-573.1	0.0	-122.7	-21.8	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-3.324	-1570.0	-3532.9	0.0	-490.3	-81.2	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	81541.8	0.0	4934.7			0.0		
NATURAL REAERATION		113658.5								
DAM REAERATION		0.0								
BACKGROUND SOD		-114314.1								
BOD#1 DECAY		-78663.1	-78663.1							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-4867.4	4867.4				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-20839.3				-4812.8	4812.8			
BACKGROUND NH3 SOURCE							0.0			
OTHER DENITRIFICATION								0.0		
PHOSPHORUS SOURCE									0.0	
ALGAE PHOTOSYNTHESIS			100418.2					0.0	-9655.6	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	4.180	215945.4	82769.1	0.0	5480.3	4946.4	4826.1	0.0	0.0	0.0
TOTAL OUTPUTS	-4.180	-215813.0	-82769.1	0.0	-5480.4	-4915.8	-9655.6	0.0	0.0	0.0
NET CONVERGENCE ERROR		0.000	132.4	0.0	0.0	0.0	30.6	-4829.5	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX O

Input and Output for TMDL Calculation Program

TMDL CALCULATIONS FOR SUBSEGMENT: 100702 Black Lk Bayou
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl702s.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl702s.out
Date/Time:Output produced at 11:12 on 10/18/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 70) is in subsegment 100702 Black Lake Bayo
Reach 2 (Elements 71 - 241) is in subsegment 100702 Black Lake Bayo
Reach 3 (Elements 242 - 376) is in subsegment 100702 Black Lake Bayo
Reach 4 (Elements 377 - 377) is in subsegment 100703 Dummy Element

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	0.05400	1.69	0.91	0.15	0.00	Black Lake Bayou
1	0.05600	1.62	0.92	0.15	0.05	NPS Letherman Cree
119	0.02300	1.62	0.92	0.15	0.05	NPS Kepler Creek
142	0.01600	1.62	0.92	0.15	0.05	NPS FourMile Creek
231	0.01800	1.62	0.92	0.15	0.05	NPS Castor Creek
1	0.03280	1.32	1.32	0.13	0.05	Incremental Reach flow
2	0.08020	1.32	1.32	0.13	0.05	Incremental Reach flow
3	0.06330	1.32	1.32	0.13	0.05	Incremental Reach flow
4	0.03420	1.38	1.38	0.14	0.05	Incremental Reach flow

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	7.88	4.25	0.70	0.00
1	7.84	4.45	0.73	0.24
119	3.22	1.83	0.30	0.10
142	2.24	1.27	0.21	0.07
231	2.52	1.43	0.23	0.08
1	3.74	3.74	0.37	0.14
2	9.15	9.15	0.90	0.35
3	7.22	7.22	0.71	0.27
4	4.08	4.08	0.41	0.15

Subsegment totals: 40.16 37.41 4.56 1.40

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	13.20	0.98
2	39.60	1.43
3	19.80	13.00
4	149.00	10.30
Subsegment totals	221.60	25.71

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	27.70	1704.3	2.360	0.00	2.360	4.02	0.00
1	2	27.70	1705.2	2.360	0.00	2.360	4.02	0.00
1	3	27.70	1706.0	2.360	0.00	2.360	4.03	0.00
1	4	27.70	1706.9	2.360	0.00	2.360	4.03	0.00
1	5	27.70	1707.7	2.360	0.00	2.360	4.03	0.00
1	6	27.70	1708.6	2.360	0.00	2.360	4.03	0.00
1	7	27.70	1709.4	2.360	0.00	2.360	4.03	0.00
1	8	27.70	1710.3	2.360	0.00	2.360	4.04	0.00
1	9	27.70	1711.1	2.360	0.00	2.360	4.04	0.00
1	10	27.70	1712.0	2.360	0.00	2.360	4.04	0.00
1	11	27.70	1712.8	2.360	0.00	2.360	4.04	0.00
1	12	27.70	1713.6	2.360	0.00	2.360	4.04	0.00
1	13	27.70	1714.5	2.360	0.00	2.360	4.05	0.00
1	14	27.70	1715.3	2.360	0.00	2.360	4.05	0.00
1	15	27.70	1716.1	2.360	0.00	2.360	4.05	0.00
1	16	27.70	1716.9	2.360	0.00	2.360	4.05	0.00
1	17	27.70	1717.8	2.360	0.00	2.360	4.05	0.00
1	18	27.70	1718.6	2.360	0.00	2.360	4.06	0.00
1	19	27.70	1719.4	2.360	0.00	2.360	4.06	0.00
1	20	27.70	1720.2	2.360	0.00	2.360	4.06	0.00
1	21	27.70	1721.0	2.360	0.00	2.360	4.06	0.00
1	22	27.70	1721.8	2.360	0.00	2.360	4.06	0.00
1	23	27.70	1722.6	2.360	0.00	2.360	4.07	0.00

1	24	27.70	1723.4	2.360	0.00	2.360	4.07	0.00
1	25	27.70	1724.2	2.360	0.00	2.360	4.07	0.00
1	26	27.70	1725.0	2.360	0.00	2.360	4.07	0.00
1	27	27.70	1725.8	2.360	0.00	2.360	4.07	0.00
1	28	27.70	1726.6	2.360	0.00	2.360	4.07	0.00
1	29	27.70	1727.4	2.360	0.00	2.360	4.08	0.00
1	30	27.70	1728.2	2.360	0.00	2.360	4.08	0.00
1	31	27.70	1729.0	2.360	0.00	2.360	4.08	0.00
1	32	27.70	1729.7	2.360	0.00	2.360	4.08	0.00
1	33	27.70	1730.5	2.360	0.00	2.360	4.08	0.00
1	34	27.70	1731.3	2.360	0.00	2.360	4.09	0.00
1	35	27.70	1732.1	2.360	0.00	2.360	4.09	0.00
1	36	27.70	1732.8	2.360	0.00	2.360	4.09	0.00
1	37	27.70	1733.6	2.360	0.00	2.360	4.09	0.00
1	38	27.70	1734.4	2.360	0.00	2.360	4.09	0.00
1	39	27.70	1735.1	2.360	0.00	2.360	4.09	0.00
1	40	27.70	1735.9	2.360	0.00	2.360	4.10	0.00
1	41	27.70	1736.6	2.360	0.00	2.360	4.10	0.00
1	42	27.70	1737.4	2.360	0.00	2.360	4.10	0.00
1	43	27.70	1738.1	2.360	0.00	2.360	4.10	0.00
1	44	27.70	1738.9	2.360	0.00	2.360	4.10	0.00
1	45	27.70	1739.6	2.360	0.00	2.360	4.11	0.00
1	46	27.70	1740.4	2.360	0.00	2.360	4.11	0.00
1	47	27.70	1741.1	2.360	0.00	2.360	4.11	0.00
1	48	27.70	1741.9	2.360	0.00	2.360	4.11	0.00
1	49	27.70	1742.6	2.360	0.00	2.360	4.11	0.00
1	50	27.70	1743.3	2.360	0.00	2.360	4.11	0.00
1	51	27.70	1744.1	2.360	0.00	2.360	4.12	0.00
1	52	27.70	1744.8	2.360	0.00	2.360	4.12	0.00
1	53	27.70	1745.5	2.360	0.00	2.360	4.12	0.00
1	54	27.70	1746.3	2.360	0.00	2.360	4.12	0.00
1	55	27.70	1747.0	2.360	0.00	2.360	4.12	0.00
1	56	27.70	1747.7	2.360	0.00	2.360	4.12	0.00
1	57	27.70	1748.4	2.360	0.00	2.360	4.13	0.00
1	58	27.70	1749.2	2.360	0.00	2.360	4.13	0.00
1	59	27.70	1749.9	2.360	0.00	2.360	4.13	0.00
1	60	27.70	1750.6	2.360	0.00	2.360	4.13	0.00
1	61	27.70	1751.3	2.360	0.00	2.360	4.13	0.00
1	62	27.70	1752.0	2.360	0.00	2.360	4.13	0.00
1	63	27.70	1752.7	2.360	0.00	2.360	4.14	0.00
1	64	27.70	1753.4	2.360	0.00	2.360	4.14	0.00
1	65	27.70	1754.1	2.360	0.00	2.360	4.14	0.00
1	66	27.70	1754.8	2.360	0.00	2.360	4.14	0.00
1	67	27.70	1755.5	2.360	0.00	2.360	4.14	0.00
1	68	27.70	1756.2	2.360	0.00	2.360	4.14	0.00
1	69	27.70	1756.9	2.360	0.00	2.360	4.15	0.00
1	70	27.70	1757.6	2.360	0.00	2.360	4.15	0.00
2	71	27.70	1885.0	2.360	0.00	2.630	4.96	0.00
2	72	27.70	1885.8	2.360	0.00	2.630	4.96	0.00
2	73	27.70	1886.5	2.360	0.00	2.630	4.96	0.00
2	74	27.70	1887.2	2.360	0.00	2.630	4.96	0.00
2	75	27.70	1888.0	2.360	0.00	2.630	4.97	0.00
2	76	27.70	1888.7	2.360	0.00	2.630	4.97	0.00
2	77	27.70	1889.4	2.360	0.00	2.630	4.97	0.00
2	78	27.70	1890.2	2.360	0.00	2.630	4.97	0.00
2	79	27.70	1890.9	2.360	0.00	2.630	4.97	0.00
2	80	27.70	1891.6	2.360	0.00	2.630	4.97	0.00
2	81	27.70	1892.3	2.360	0.00	2.630	4.98	0.00
2	82	27.70	1893.0	2.360	0.00	2.630	4.98	0.00

2	83	27.70	1893.8	2.360	0.00	2.630	4.98	0.00
2	84	27.70	1894.5	2.360	0.00	2.630	4.98	0.00
2	85	27.70	1895.2	2.360	0.00	2.630	4.98	0.00
2	86	27.70	1895.9	2.360	0.00	2.630	4.99	0.00
2	87	27.70	1896.6	2.360	0.00	2.630	4.99	0.00
2	88	27.70	1897.3	2.360	0.00	2.630	4.99	0.00
2	89	27.70	1898.0	2.360	0.00	2.630	4.99	0.00
2	90	27.70	1898.7	2.360	0.00	2.630	4.99	0.00
2	91	27.70	1899.4	2.360	0.00	2.630	5.00	0.00
2	92	27.70	1900.1	2.360	0.00	2.630	5.00	0.00
2	93	27.70	1900.8	2.360	0.00	2.630	5.00	0.00
2	94	27.70	1901.5	2.360	0.00	2.630	5.00	0.00
2	95	27.70	1902.2	2.360	0.00	2.630	5.00	0.00
2	96	27.70	1902.9	2.360	0.00	2.630	5.00	0.00
2	97	27.70	1903.6	2.360	0.00	2.630	5.01	0.00
2	98	27.70	1904.3	2.360	0.00	2.630	5.01	0.00
2	99	27.70	1905.0	2.360	0.00	2.630	5.01	0.00
2	100	27.70	1905.6	2.360	0.00	2.630	5.01	0.00
2	101	27.70	1906.3	2.360	0.00	2.630	5.01	0.00
2	102	27.70	1907.0	2.360	0.00	2.630	5.02	0.00
2	103	27.70	1907.7	2.360	0.00	2.630	5.02	0.00
2	104	27.70	1908.4	2.360	0.00	2.630	5.02	0.00
2	105	27.70	1909.0	2.360	0.00	2.630	5.02	0.00
2	106	27.70	1909.7	2.360	0.00	2.630	5.02	0.00
2	107	27.70	1910.4	2.360	0.00	2.630	5.02	0.00
2	108	27.70	1911.1	2.360	0.00	2.630	5.03	0.00
2	109	27.70	1911.7	2.360	0.00	2.630	5.03	0.00
2	110	27.70	1912.4	2.360	0.00	2.630	5.03	0.00
2	111	27.70	1913.1	2.360	0.00	2.630	5.03	0.00
2	112	27.70	1913.7	2.360	0.00	2.630	5.03	0.00
2	113	27.70	1914.4	2.360	0.00	2.630	5.03	0.00
2	114	27.70	1915.0	2.360	0.00	2.630	5.04	0.00
2	115	27.70	1915.7	2.360	0.00	2.630	5.04	0.00
2	116	27.70	1916.4	2.360	0.00	2.630	5.04	0.00
2	117	27.70	1917.0	2.360	0.00	2.630	5.04	0.00
2	118	27.70	1917.7	2.360	0.00	2.630	5.04	0.00
2	119	27.70	1948.5	2.360	0.00	2.630	5.12	0.00
2	120	27.70	1949.0	2.360	0.00	2.630	5.13	0.00
2	121	27.70	1949.6	2.360	0.00	2.630	5.13	0.00
2	122	27.70	1950.2	2.360	0.00	2.630	5.13	0.00
2	123	27.70	1950.8	2.360	0.00	2.630	5.13	0.00
2	124	27.70	1951.3	2.360	0.00	2.630	5.13	0.00
2	125	27.70	1951.9	2.360	0.00	2.630	5.13	0.00
2	126	27.70	1952.5	2.360	0.00	2.630	5.14	0.00
2	127	27.70	1953.1	2.360	0.00	2.630	5.14	0.00
2	128	27.70	1953.6	2.360	0.00	2.630	5.14	0.00
2	129	27.70	1954.2	2.360	0.00	2.630	5.14	0.00
2	130	27.70	1954.8	2.360	0.00	2.630	5.14	0.00
2	131	27.70	1955.3	2.360	0.00	2.630	5.14	0.00
2	132	27.70	1955.9	2.360	0.00	2.630	5.14	0.00
2	133	27.70	1956.5	2.360	0.00	2.630	5.15	0.00
2	134	27.70	1957.0	2.360	0.00	2.630	5.15	0.00
2	135	27.70	1957.6	2.360	0.00	2.630	5.15	0.00
2	136	27.70	1958.2	2.360	0.00	2.630	5.15	0.00
2	137	27.70	1958.7	2.360	0.00	2.630	5.15	0.00
2	138	27.70	1959.3	2.360	0.00	2.630	5.15	0.00
2	139	27.70	1959.8	2.360	0.00	2.630	5.15	0.00
2	140	27.70	1960.4	2.360	0.00	2.630	5.16	0.00
2	141	27.70	1960.9	2.360	0.00	2.630	5.16	0.00

2	142	27.70	1979.7	2.360	0.00	2.630	5.21	0.00
2	143	27.70	1980.3	2.360	0.00	2.630	5.21	0.00
2	144	27.70	1980.8	2.360	0.00	2.630	5.21	0.00
2	145	27.70	1981.3	2.360	0.00	2.630	5.21	0.00
2	146	27.70	1981.8	2.360	0.00	2.630	5.21	0.00
2	147	27.70	1982.3	2.360	0.00	2.630	5.21	0.00
2	148	27.70	1982.8	2.360	0.00	2.630	5.21	0.00
2	149	27.70	1983.3	2.360	0.00	2.630	5.22	0.00
2	150	27.70	1983.8	2.360	0.00	2.630	5.22	0.00
2	151	27.70	1984.3	2.360	0.00	2.630	5.22	0.00
2	152	27.70	1984.8	2.360	0.00	2.630	5.22	0.00
2	153	27.70	1985.4	2.360	0.00	2.630	5.22	0.00
2	154	27.70	1985.9	2.360	0.00	2.630	5.22	0.00
2	155	27.70	1986.4	2.360	0.00	2.630	5.22	0.00
2	156	27.70	1986.9	2.360	0.00	2.630	5.23	0.00
2	157	27.70	1987.4	2.360	0.00	2.630	5.23	0.00
2	158	27.70	1987.9	2.360	0.00	2.630	5.23	0.00
2	159	27.70	1988.4	2.360	0.00	2.630	5.23	0.00
2	160	27.70	1988.9	2.360	0.00	2.630	5.23	0.00
2	161	27.70	1989.4	2.360	0.00	2.630	5.23	0.00
2	162	27.70	1989.9	2.360	0.00	2.630	5.23	0.00
2	163	27.70	1990.4	2.360	0.00	2.630	5.23	0.00
2	164	27.70	1990.9	2.360	0.00	2.630	5.24	0.00
2	165	27.70	1991.4	2.360	0.00	2.630	5.24	0.00
2	166	27.70	1991.9	2.360	0.00	2.630	5.24	0.00
2	167	27.70	1992.4	2.360	0.00	2.630	5.24	0.00
2	168	27.70	1992.8	2.360	0.00	2.630	5.24	0.00
2	169	27.70	1993.3	2.360	0.00	2.630	5.24	0.00
2	170	27.70	1993.8	2.360	0.00	2.630	5.24	0.00
2	171	27.70	1994.3	2.360	0.00	2.630	5.25	0.00
2	172	27.70	1994.8	2.360	0.00	2.630	5.25	0.00
2	173	27.70	1995.3	2.360	0.00	2.630	5.25	0.00
2	174	27.70	1995.8	2.360	0.00	2.630	5.25	0.00
2	175	27.70	1996.3	2.360	0.00	2.630	5.25	0.00
2	176	27.70	1996.8	2.360	0.00	2.630	5.25	0.00
2	177	27.70	1997.3	2.360	0.00	2.630	5.25	0.00
2	178	27.70	1997.7	2.360	0.00	2.630	5.25	0.00
2	179	27.70	1998.2	2.360	0.00	2.630	5.26	0.00
2	180	27.70	1998.7	2.360	0.00	2.630	5.26	0.00
2	181	27.70	1999.2	2.360	0.00	2.630	5.26	0.00
2	182	27.70	1999.7	2.360	0.00	2.630	5.26	0.00
2	183	27.70	2000.1	2.360	0.00	2.630	5.26	0.00
2	184	27.70	2000.6	2.360	0.00	2.630	5.26	0.00
2	185	27.70	2001.1	2.360	0.00	2.630	5.26	0.00
2	186	27.70	2001.6	2.360	0.00	2.630	5.26	0.00
2	187	27.70	2002.1	2.360	0.00	2.630	5.27	0.00
2	188	27.70	2002.5	2.360	0.00	2.630	5.27	0.00
2	189	27.70	2003.0	2.360	0.00	2.630	5.27	0.00
2	190	27.70	2003.5	2.360	0.00	2.630	5.27	0.00
2	191	27.70	2003.9	2.360	0.00	2.630	5.27	0.00
2	192	27.70	2004.4	2.360	0.00	2.630	5.27	0.00
2	193	27.70	2004.9	2.360	0.00	2.630	5.27	0.00
2	194	27.70	2005.4	2.360	0.00	2.630	5.27	0.00
2	195	27.70	2005.8	2.360	0.00	2.630	5.28	0.00
2	196	27.70	2006.3	2.360	0.00	2.630	5.28	0.00
2	197	27.70	2006.8	2.360	0.00	2.630	5.28	0.00
2	198	27.70	2007.2	2.360	0.00	2.630	5.28	0.00
2	199	27.70	2007.7	2.360	0.00	2.630	5.28	0.00
2	200	27.70	2008.2	2.360	0.00	2.630	5.28	0.00

2	201	27.70	2008.6	2.360	0.00	2.630	5.28	0.00
2	202	27.70	2009.1	2.360	0.00	2.630	5.28	0.00
2	203	27.70	2009.6	2.360	0.00	2.630	5.29	0.00
2	204	27.70	2010.0	2.360	0.00	2.630	5.29	0.00
2	205	27.70	2010.5	2.360	0.00	2.630	5.29	0.00
2	206	27.70	2010.9	2.360	0.00	2.630	5.29	0.00
2	207	27.70	2011.4	2.360	0.00	2.630	5.29	0.00
2	208	27.70	2011.9	2.360	0.00	2.630	5.29	0.00
2	209	27.70	2012.3	2.360	0.00	2.630	5.29	0.00
2	210	27.70	2012.8	2.360	0.00	2.630	5.29	0.00
2	211	27.70	2013.2	2.360	0.00	2.630	5.29	0.00
2	212	27.70	2013.7	2.360	0.00	2.630	5.30	0.00
2	213	27.70	2014.2	2.360	0.00	2.630	5.30	0.00
2	214	27.70	2014.6	2.360	0.00	2.630	5.30	0.00
2	215	27.70	2015.1	2.360	0.00	2.630	5.30	0.00
2	216	27.70	2015.5	2.360	0.00	2.630	5.30	0.00
2	217	27.70	2016.0	2.360	0.00	2.630	5.30	0.00
2	218	27.70	2016.4	2.360	0.00	2.630	5.30	0.00
2	219	27.70	2016.9	2.360	0.00	2.630	5.30	0.00
2	220	27.70	2017.3	2.360	0.00	2.630	5.31	0.00
2	221	27.70	2017.8	2.360	0.00	2.630	5.31	0.00
2	222	27.70	2018.2	2.360	0.00	2.630	5.31	0.00
2	223	27.70	2018.7	2.360	0.00	2.630	5.31	0.00
2	224	27.70	2019.1	2.360	0.00	2.630	5.31	0.00
2	225	27.70	2019.6	2.360	0.00	2.630	5.31	0.00
2	226	27.70	2020.0	2.360	0.00	2.630	5.31	0.00
2	227	27.70	2020.5	2.360	0.00	2.630	5.31	0.00
2	228	27.70	2020.9	2.360	0.00	2.630	5.31	0.00
2	229	27.70	2021.3	2.360	0.00	2.630	5.32	0.00
2	230	27.70	2021.8	2.360	0.00	2.630	5.32	0.00
2	231	27.70	2038.7	2.360	0.00	2.630	5.36	0.00
2	232	27.70	2039.1	2.360	0.00	2.630	5.36	0.00
2	233	27.70	2039.5	2.360	0.00	2.630	5.36	0.00
2	234	27.70	2040.0	2.360	0.00	2.630	5.37	0.00
2	235	27.70	2040.4	2.360	0.00	2.630	5.37	0.00
2	236	27.70	2040.8	2.360	0.00	2.630	5.37	0.00
2	237	27.70	2041.2	2.360	0.00	2.630	5.37	0.00
2	238	27.70	2041.6	2.360	0.00	2.630	5.37	0.00
2	239	27.70	2042.0	2.360	0.00	2.630	5.37	0.00
2	240	27.70	2042.4	2.360	0.00	2.630	5.37	0.00
2	241	27.70	2042.8	2.360	0.00	2.630	5.37	0.00
3	242	27.70	2369.5	2.360	0.00	3.220	7.63	0.00
3	243	27.70	2370.0	2.360	0.00	3.220	7.63	0.00
3	244	27.70	2370.4	2.360	0.00	3.230	7.66	0.00
3	245	27.70	2370.9	2.360	0.00	3.230	7.66	0.00
3	246	27.70	2371.4	2.360	0.00	3.240	7.68	0.00
3	247	27.70	2371.9	2.360	0.00	3.240	7.68	0.00
3	248	27.70	2372.3	2.360	0.00	3.250	7.71	0.00
3	249	27.70	2372.8	2.360	0.00	3.250	7.71	0.00
3	250	27.70	2373.3	2.360	0.00	3.260	7.74	0.00
3	251	27.70	2373.7	2.360	0.00	3.260	7.74	0.00
3	252	27.70	2374.2	2.360	0.00	3.270	7.76	0.00
3	253	27.70	2374.7	2.360	0.00	3.270	7.77	0.00
3	254	27.70	2375.1	2.360	0.00	3.270	7.77	0.00
3	255	27.70	2375.6	2.360	0.00	3.280	7.79	0.00
3	256	27.70	2376.1	2.360	0.00	3.280	7.79	0.00
3	257	27.70	2376.5	2.360	0.00	3.290	7.82	0.00
3	258	27.70	2377.0	2.360	0.00	3.290	7.82	0.00
3	259	27.70	2377.5	2.360	0.00	3.300	7.85	0.00

3	260	27.70	2377.9	2.360	0.00	3.300	7.85	0.00
3	261	27.70	2378.4	2.360	0.00	3.310	7.87	0.00
3	262	27.70	2378.9	2.360	0.00	3.310	7.87	0.00
3	263	27.70	2379.3	2.360	0.00	3.320	7.90	0.00
3	264	27.70	2379.8	2.360	0.00	3.320	7.90	0.00
3	265	27.70	2380.2	2.360	0.00	3.330	7.93	0.00
3	266	27.70	2380.7	2.360	0.00	3.330	7.93	0.00
3	267	27.70	2381.2	2.360	0.00	3.330	7.93	0.00
3	268	27.70	2381.6	2.360	0.00	3.340	7.95	0.00
3	269	27.70	2382.1	2.360	0.00	3.340	7.96	0.00
3	270	27.70	2382.5	2.360	0.00	3.350	7.98	0.00
3	271	27.70	2383.0	2.360	0.00	3.350	7.98	0.00
3	272	27.70	2383.4	2.360	0.00	3.360	8.01	0.00
3	273	27.70	2383.9	2.360	0.00	3.360	8.01	0.00
3	274	27.70	2384.4	2.360	0.00	3.370	8.04	0.00
3	275	27.70	2384.8	2.360	0.00	3.370	8.04	0.00
3	276	27.70	2385.3	2.360	0.00	3.380	8.06	0.00
3	277	27.70	2385.7	2.360	0.00	3.380	8.06	0.00
3	278	27.70	2386.2	2.360	0.00	3.390	8.09	0.00
3	279	27.70	2386.6	2.360	0.00	3.390	8.09	0.00
3	280	27.70	2387.1	2.360	0.00	3.400	8.12	0.00
3	281	27.70	2387.5	2.360	0.00	3.400	8.12	0.00
3	282	27.70	2388.0	2.360	0.00	3.410	8.14	0.00
3	283	27.70	2388.4	2.360	0.00	3.410	8.14	0.00
3	284	27.70	2388.9	2.360	0.00	3.420	8.17	0.00
3	285	27.70	2389.3	2.360	0.00	3.420	8.17	0.00
3	286	27.70	2389.8	2.360	0.00	3.420	8.17	0.00
3	287	27.70	2390.2	2.360	0.00	3.430	8.20	0.00
3	288	27.70	2390.6	2.360	0.00	3.430	8.20	0.00
3	289	27.70	2391.1	2.360	0.00	3.440	8.23	0.00
3	290	27.70	2391.5	2.360	0.00	3.440	8.23	0.00
3	291	27.70	2392.0	2.360	0.00	3.450	8.25	0.00
3	292	27.70	2392.4	2.360	0.00	3.450	8.25	0.00
3	293	27.70	2392.9	2.360	0.00	3.460	8.28	0.00
3	294	27.70	2393.3	2.360	0.00	3.460	8.28	0.00
3	295	27.70	2393.8	2.360	0.00	3.470	8.31	0.00
3	296	27.70	2394.2	2.360	0.00	3.470	8.31	0.00
3	297	27.70	2394.6	2.360	0.00	3.480	8.33	0.00
3	298	27.70	2395.1	2.360	0.00	3.480	8.33	0.00
3	299	27.70	2395.5	2.360	0.00	3.490	8.36	0.00
3	300	27.70	2395.9	2.360	0.00	3.490	8.36	0.00
3	301	27.70	2396.4	2.360	0.00	3.500	8.39	0.00
3	302	27.70	2396.8	2.360	0.00	3.500	8.39	0.00
3	303	27.70	2397.3	2.360	0.00	3.510	8.41	0.00
3	304	27.70	2397.7	2.360	0.00	3.510	8.42	0.00
3	305	27.70	2398.1	2.360	0.00	3.520	8.44	0.00
3	306	27.70	2398.6	2.360	0.00	3.520	8.44	0.00
3	307	27.70	2399.0	2.360	0.00	3.530	8.47	0.00
3	308	27.70	2399.4	2.360	0.00	3.530	8.47	0.00
3	309	27.70	2399.9	2.360	0.00	3.540	8.50	0.00
3	310	27.70	2400.3	2.360	0.00	3.540	8.50	0.00
3	311	27.70	2400.7	2.360	0.00	3.550	8.52	0.00
3	312	27.70	2401.2	2.360	0.00	3.550	8.52	0.00
3	313	27.70	2401.6	2.360	0.00	3.560	8.55	0.00
3	314	27.70	2402.0	2.360	0.00	3.560	8.55	0.00
3	315	27.70	2402.5	2.360	0.00	3.570	8.58	0.00
3	316	27.70	2402.9	2.360	0.00	3.570	8.58	0.00
3	317	27.70	2403.3	2.360	0.00	3.580	8.60	0.00
3	318	27.70	2403.8	2.360	0.00	3.580	8.61	0.00

3	319	27.70	2404.2	2.360	0.00	3.590	8.63	0.00
3	320	27.70	2404.6	2.360	0.00	3.590	8.63	0.00
3	321	27.70	2405.0	2.360	0.00	3.600	8.66	0.00
3	322	27.70	2405.4	2.360	0.00	3.600	8.66	0.00
3	323	27.70	2405.9	2.360	0.00	3.610	8.69	0.00
3	324	27.70	2406.3	2.360	0.00	3.610	8.69	0.00
3	325	27.70	2406.7	2.360	0.00	3.620	8.71	0.00
3	326	27.70	2407.1	2.360	0.00	3.620	8.71	0.00
3	327	27.70	2407.6	2.360	0.00	3.630	8.74	0.00
3	328	27.70	2408.0	2.360	0.00	3.630	8.74	0.00
3	329	27.70	2408.4	2.360	0.00	3.640	8.77	0.00
3	330	27.70	2408.8	2.360	0.00	3.640	8.77	0.00
3	331	27.70	2409.3	2.360	0.00	3.650	8.79	0.00
3	332	27.70	2409.7	2.360	0.00	3.650	8.80	0.00
3	333	27.70	2410.1	2.360	0.00	3.660	8.82	0.00
3	334	27.70	2410.5	2.360	0.00	3.660	8.82	0.00
3	335	27.70	2410.9	2.360	0.00	3.670	8.85	0.00
3	336	27.70	2411.4	2.360	0.00	3.670	8.85	0.00
3	337	27.70	2411.8	2.360	0.00	3.680	8.88	0.00
3	338	27.70	2412.2	2.360	0.00	3.680	8.88	0.00
3	339	27.70	2412.6	2.360	0.00	3.690	8.90	0.00
3	340	27.70	2413.0	2.360	0.00	3.690	8.90	0.00
3	341	27.70	2413.4	2.360	0.00	3.700	8.93	0.00
3	342	27.70	2413.9	2.360	0.00	3.700	8.93	0.00
3	343	27.70	2414.3	2.360	0.00	3.710	8.96	0.00
3	344	27.70	2414.7	2.360	0.00	3.710	8.96	0.00
3	345	27.70	2415.1	2.360	0.00	3.720	8.98	0.00
3	346	27.70	2415.5	2.360	0.00	3.720	8.99	0.00
3	347	27.70	2415.9	2.360	0.00	3.730	9.01	0.00
3	348	27.70	2416.3	2.360	0.00	3.730	9.01	0.00
3	349	27.70	2416.8	2.360	0.00	3.740	9.04	0.00
3	350	27.70	2417.2	2.360	0.00	3.750	9.06	0.00
3	351	27.70	2417.6	2.360	0.00	3.750	9.07	0.00
3	352	27.70	2418.0	2.360	0.00	3.760	9.09	0.00
3	353	27.70	2418.4	2.360	0.00	3.760	9.09	0.00
3	354	27.70	2418.8	2.360	0.00	3.770	9.12	0.00
3	355	27.70	2419.2	2.360	0.00	3.770	9.12	0.00
3	356	27.70	2419.6	2.360	0.00	3.780	9.15	0.00
3	357	27.70	2420.0	2.360	0.00	3.780	9.15	0.00
3	358	27.70	2420.4	2.360	0.00	3.790	9.17	0.00
3	359	27.70	2420.8	2.360	0.00	3.790	9.17	0.00
3	360	27.70	2421.2	2.360	0.00	3.800	9.20	0.00
3	361	27.70	2421.6	2.360	0.00	3.800	9.20	0.00
3	362	27.70	2422.1	2.360	0.00	3.810	9.23	0.00
3	363	27.70	2422.5	2.360	0.00	3.810	9.23	0.00
3	364	27.70	2422.9	2.360	0.00	3.820	9.26	0.00
3	365	27.70	2423.3	2.360	0.00	3.820	9.26	0.00
3	366	27.70	2423.7	2.360	0.00	3.830	9.28	0.00
3	367	27.70	2424.1	2.360	0.00	3.840	9.31	0.00
3	368	27.70	2424.5	2.360	0.00	3.840	9.31	0.00
3	369	27.70	2424.9	2.360	0.00	3.850	9.34	0.00
3	370	27.70	2425.3	2.360	0.00	3.850	9.34	0.00
3	371	27.70	2425.7	2.360	0.00	3.860	9.36	0.00
3	372	27.70	2426.1	2.360	0.00	3.860	9.36	0.00
3	373	27.70	2426.5	2.360	0.00	3.870	9.39	0.00
3	374	27.70	2426.9	2.360	0.00	3.870	9.39	0.00
3	375	27.70	2427.3	2.360	0.00	3.880	9.42	0.00
3	376	27.70	2427.7	2.360	0.00	3.880	9.42	0.00
4	377	30.70	259400.0	2.360	0.00	2.940	762.64	0.00

Subsegment totals:	3082.28	0.00

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

Equations used: Flow rate from TMDL calcs = Permit flow rate * 1.250 (to incorporate MOS and FG)
(Load, kg/day) = (Flow rate, MGD) * (Conc., mg/L) * 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg

Assumptions: Ratio of CBODu to CBOD5 for point source dissharges = 2.3 (guidance from LTP).
For permits with BOD or ammonia limits, NO2+NO3 = 10 mg/L (drinking water criteria).
For permits with COD limits, assume that CBODu is about the same magnitude as COD and that discharges of nitrogen (organic, ammonia, and NO2+NO3) are negligible.

NPDES permit number	Outfall number	Permit flow rate (MGD)	Factor to incorporate MOS and FG into flow	Flow rate for TMDL calcs (MGD	Comments
LA0049484	001	0.185	1.250	0.231	North Pond STP
LA0053261	001	0.122	1.250	0.153	Gibsland MWTP
LA0080446	002	0.097	1.250	0.121	Taylor Sawmill Weyco
LA0080446	003	0.008	1.250	0.010	Taylor Sawmill Weyco
LA0080446	005	0.270	1.250	0.338	Taylor Sawmill Weyco
LAG480478	001	0.000	1.250	0.000	Tesco Services Inc.
LAG490016	004	0.000	1.250	0.000	Tesco Services Inc.
LAG540420	001	0.015	1.250	0.019	Ada Rest Area East
LAG540421	001	0.015	1.250	0.019	Ada Rest Area West
LAG560094	001	0.050	1.250	0.063	Athens WWTP

User specified permit limits:

NPDES permit number	Outfall number	CBOD5 (mg/L)	COD (mg/L)	Ammonia (mg/L)	Comments
LA0049484	001	10.0	0.0	1.7	
LA0053261	001	10.0	0.0	1.7	
LA0080446	002	0.0	200.0	0.0	
LA0080446	003	45.0	0.0	3.3	
LA0080446	005	0.0	250.0	0.0	
LAG480478	001	0.0	200.0	0.0	
LAG490016	004	0.0	200.0	0.0	
LAG540420	001	30.0	0.0	3.3	
LAG540421	001	30.0	0.0	3.3	
LAG560094	001	20.0	0.0	3.3	

Values for TMDL calculations:

NPDES permit number	Outfall number	CBODu (mg/L)	Organic N (mg/L)	Ammonia N (mg/L)	NO2+NO3 N (mg/L)	Comments
LA0049484	001	23.00	3.40	1.70	0.00	
LA0053261	001	23.00	3.40	1.70	0.00	
LA0080446	002	200.00	0.00	0.00	0.00	
LA0080446	003	103.50	6.60	3.30	0.00	
LA0080446	005	250.00	0.00	0.00	0.00	
LAG480478	001	200.00	0.00	0.00	0.00	
LAG490016	004	200.00	0.00	0.00	0.00	
LAG540420	001	69.00	6.60	3.30	0.00	
LAG540421	001	69.00	6.60	3.30	0.00	
LAG560094	001	46.00	6.60	3.30	0.00	

Calculated loads:

NPDES permit number	Outfall number	CBODu (kg/day)	Organic N (kg/day)	AmmoniaN (kg.day)	NO2+NO3 N (kg.day)	Comments
LA0049484	001	20.13	2.98	1.49	0.00	
LA0053261	001	13.28	1.96	0.98	0.00	
LA0080446	002	91.79	0.00	0.00	0.00	
LA0080446	003	3.92	0.25	0.12	0.00	
LA0080446	005	319.36	0.00	0.00	0.00	
LAG480478	001	0.01	0.00	0.00	0.00	
LAG490016	004	0.01	0.00	0.00	0.00	
LAG540420	001	4.90	0.47	0.23	0.00	
LAG540421	001	4.90	0.47	0.23	0.00	
LAG560094	001	10.88	1.56	0.78	0.00	
Subsegment total		469.17	7.69	3.84	0.00	

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SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

Nitrogen loads (kg/day of N):

	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	40.16	37.41	4.56	1.40
Mass LOads (data type 19)	N/A	221.60	25.71	N/A	N/A
SOD and Benthic	3082.28	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

Oygen demand loads: Total

	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	Oxygen demand (kg/day)
NPS inflows	N/A	40.16	162.00	19.76	221.93
Mass LOads (data type 19)	N/A	221.60	111.32	N/A	332.92
SOD and Benthic	3082.28	N/A	N/A	0.00	3082.28
Total for all NPS loads	3082.28	261.76	273.33	19.76	3637.13
NPS future growth (10.0%)	308.23	26.18	27.33	1.98	363.71
NPS margin of safety (10.0%)	308.23	26.18	27.33	1.98	363.71
NPS load allocation (80.0%)	2465.82	209.40	218.67	15.80	2909.71

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SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of Safety = 10.0% * point source load
Future Growth = 10.0% * nonpoint source load
Wasteload Allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload Allocation (WLA) for minor point sources = 80.0% * calculated load

Values from calculations above

	Nitrogen loads (kg/day of N): CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	NO3+NO2 (kg/day)
Calculated load for minor point source	469.17	7.69	3.84	0.00

Calculated loads of oxygen demand

	Oygen demand loads: CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	Total Oxygen demand (kg/day)
Calculated load for minor point source	469.17	33.28	16.64	519.09
Total for all point source loads	469.17	33.28	16.64	519.09
MOS for all point Sources (10.0%)	46.92	3.33	1.66	51.91
FG for all point Sources (10.0%)	46.92	3.33	1.66	51.91
WLA for minor point sources (80.0%)	375.34	26.63	13.31	415.27

TMDL CALCULATIONS FOR SUBSEGMENT: 100702 Black Lk Bayou
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl702w.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl702w.out
Date/Time:Output produced at 14:43 on 10/18/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 70) is in subsegment 100702 Black Lake Bayo
Reach 2 (Elements 71 - 241) is in subsegment 100702 Black Lake Bayo
Reach 3 (Elements 242 - 376) is in subsegment 100702 Black Lake Bayo
Reach 4 (Elements 377 - 377) is in subsegment 100703 Dummy Element

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	0.23000	2.25	1.21	0.19	0.00	Black Lake Bayou
1	0.23900	2.29	1.23	0.19	0.05	NPS Letherman Cree
119	0.09700	2.29	1.23	0.19	0.05	NPS Kepler Creek
142	0.06600	2.29	1.23	0.19	0.05	NPS FourMile Creek
231	0.07600	2.29	1.23	0.19	0.05	NPS Castor Creek
1	0.13890	1.76	1.76	0.18	0.05	Incremental Reach flow
2	0.33930	1.76	1.76	0.18	0.05	Incremental Reach flow
3	0.26790	1.76	1.76	0.18	0.05	Incremental Reach flow
4	0.14480	1.78	1.78	0.18	0.05	Incremental Reach flow

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	44.71	24.05	3.78	0.00
1	47.29	25.40	3.92	1.03
119	19.19	10.31	1.59	0.42
142	13.06	7.01	1.08	0.29
231	15.04	8.08	1.25	0.33
1	21.12	21.12	2.16	0.60
2	51.60	51.60	5.28	1.47
3	40.74	40.74	4.17	1.16
4	22.27	22.27	2.25	0.63

Subsegment totals: 231.25 210.57 25.48 5.92

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	17.60	1.32
2	52.80	2.02
3	26.40	18.00
4	0.00	0.00
Subsegment totals	96.80	21.34

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	20.10	2028.2	1.950	0.00	1.950	3.96	0.00
1	2	20.10	2029.2	1.950	0.00	1.950	3.96	0.00
1	3	20.10	2030.3	1.950	0.00	1.950	3.96	0.00
1	4	20.10	2031.3	1.950	0.00	1.950	3.96	0.00
1	5	20.10	2032.3	1.950	0.00	1.950	3.96	0.00
1	6	20.10	2033.3	1.950	0.00	1.950	3.96	0.00
1	7	20.10	2034.3	1.950	0.00	1.950	3.97	0.00
1	8	20.10	2035.3	1.950	0.00	1.950	3.97	0.00
1	9	20.10	2036.3	1.950	0.00	1.950	3.97	0.00
1	10	20.10	2037.3	1.950	0.00	1.950	3.97	0.00
1	11	20.10	2038.3	1.950	0.00	1.950	3.97	0.00
1	12	20.10	2039.3	1.950	0.00	1.950	3.98	0.00
1	13	20.10	2040.3	1.950	0.00	1.950	3.98	0.00
1	14	20.10	2041.2	1.950	0.00	1.950	3.98	0.00
1	15	20.10	2042.2	1.950	0.00	1.950	3.98	0.00
1	16	20.10	2043.2	1.950	0.00	1.950	3.98	0.00
1	17	20.10	2044.2	1.950	0.00	1.950	3.99	0.00
1	18	20.10	2045.1	1.950	0.00	1.950	3.99	0.00
1	19	20.10	2046.1	1.950	0.00	1.950	3.99	0.00
1	20	20.10	2047.0	1.950	0.00	1.950	3.99	0.00
1	21	20.10	2048.0	1.950	0.00	1.950	3.99	0.00
1	22	20.10	2048.9	1.950	0.00	1.950	4.00	0.00
1	23	20.10	2049.9	1.950	0.00	1.950	4.00	0.00

1	24	20.10	2050.9	1.950	0.00	1.950	4.00	0.00
1	25	20.10	2051.8	1.950	0.00	1.950	4.00	0.00
1	26	20.10	2052.7	1.950	0.00	1.950	4.00	0.00
1	27	20.10	2053.7	1.950	0.00	1.950	4.00	0.00
1	28	20.10	2054.6	1.950	0.00	1.950	4.01	0.00
1	29	20.10	2055.5	1.950	0.00	1.950	4.01	0.00
1	30	20.10	2056.5	1.950	0.00	1.950	4.01	0.00
1	31	20.10	2057.4	1.950	0.00	1.950	4.01	0.00
1	32	20.10	2058.3	1.950	0.00	1.950	4.01	0.00
1	33	20.10	2059.2	1.950	0.00	1.950	4.02	0.00
1	34	20.10	2060.1	1.950	0.00	1.950	4.02	0.00
1	35	20.10	2061.1	1.950	0.00	1.950	4.02	0.00
1	36	20.10	2062.0	1.950	0.00	1.950	4.02	0.00
1	37	20.10	2062.9	1.950	0.00	1.950	4.02	0.00
1	38	20.10	2063.8	1.950	0.00	1.950	4.02	0.00
1	39	20.10	2064.7	1.950	0.00	1.950	4.03	0.00
1	40	20.10	2065.6	1.950	0.00	1.950	4.03	0.00
1	41	20.10	2066.5	1.950	0.00	1.950	4.03	0.00
1	42	20.10	2067.4	1.950	0.00	1.950	4.03	0.00
1	43	20.10	2068.3	1.950	0.00	1.950	4.03	0.00
1	44	20.10	2069.1	1.950	0.00	1.950	4.03	0.00
1	45	20.10	2070.0	1.950	0.00	1.950	4.04	0.00
1	46	20.10	2070.9	1.950	0.00	1.950	4.04	0.00
1	47	20.10	2071.8	1.950	0.00	1.950	4.04	0.00
1	48	20.10	2072.7	1.950	0.00	1.950	4.04	0.00
1	49	20.10	2073.5	1.950	0.00	1.950	4.04	0.00
1	50	20.10	2074.4	1.950	0.00	1.950	4.05	0.00
1	51	20.10	2075.3	1.950	0.00	1.950	4.05	0.00
1	52	20.10	2076.1	1.950	0.00	1.950	4.05	0.00
1	53	20.10	2077.0	1.950	0.00	1.950	4.05	0.00
1	54	20.10	2077.9	1.950	0.00	1.950	4.05	0.00
1	55	20.10	2078.7	1.950	0.00	1.950	4.05	0.00
1	56	20.10	2079.6	1.950	0.00	1.950	4.06	0.00
1	57	20.10	2080.4	1.950	0.00	1.950	4.06	0.00
1	58	20.10	2081.3	1.950	0.00	1.950	4.06	0.00
1	59	20.10	2082.1	1.950	0.00	1.950	4.06	0.00
1	60	20.10	2083.0	1.950	0.00	1.950	4.06	0.00
1	61	20.10	2083.8	1.950	0.00	1.950	4.06	0.00
1	62	20.10	2084.6	1.950	0.00	1.950	4.07	0.00
1	63	20.10	2085.5	1.950	0.00	1.950	4.07	0.00
1	64	20.10	2086.3	1.950	0.00	1.950	4.07	0.00
1	65	20.10	2087.2	1.950	0.00	1.950	4.07	0.00
1	66	20.10	2088.0	1.950	0.00	1.950	4.07	0.00
1	67	20.10	2088.8	1.950	0.00	1.950	4.07	0.00
1	68	20.10	2089.6	1.950	0.00	1.950	4.07	0.00
1	69	20.10	2090.5	1.950	0.00	1.950	4.08	0.00
1	70	20.10	2091.3	1.950	0.00	1.950	4.08	0.00
2	71	20.10	2242.9	1.950	0.00	2.170	4.87	0.00
2	72	20.10	2243.8	1.950	0.00	2.170	4.87	0.00
2	73	20.10	2244.6	1.950	0.00	2.170	4.87	0.00
2	74	20.10	2245.5	1.950	0.00	2.170	4.87	0.00
2	75	20.10	2246.4	1.950	0.00	2.170	4.87	0.00
2	76	20.10	2247.2	1.950	0.00	2.170	4.88	0.00
2	77	20.10	2248.1	1.950	0.00	2.170	4.88	0.00
2	78	20.10	2248.9	1.950	0.00	2.170	4.88	0.00
2	79	20.10	2249.8	1.950	0.00	2.170	4.88	0.00
2	80	20.10	2250.7	1.950	0.00	2.170	4.88	0.00
2	81	20.10	2251.5	1.950	0.00	2.170	4.89	0.00
2	82	20.10	2252.4	1.950	0.00	2.170	4.89	0.00

2	83	20.10	2253.2	1.950	0.00	2.170	4.89	0.00
2	84	20.10	2254.1	1.950	0.00	2.170	4.89	0.00
2	85	20.10	2254.9	1.950	0.00	2.170	4.89	0.00
2	86	20.10	2255.7	1.950	0.00	2.170	4.89	0.00
2	87	20.10	2256.6	1.950	0.00	2.170	4.90	0.00
2	88	20.10	2257.4	1.950	0.00	2.170	4.90	0.00
2	89	20.10	2258.3	1.950	0.00	2.170	4.90	0.00
2	90	20.10	2259.1	1.950	0.00	2.170	4.90	0.00
2	91	20.10	2259.9	1.950	0.00	2.170	4.90	0.00
2	92	20.10	2260.7	1.950	0.00	2.170	4.91	0.00
2	93	20.10	2261.6	1.950	0.00	2.170	4.91	0.00
2	94	20.10	2262.4	1.950	0.00	2.170	4.91	0.00
2	95	20.10	2263.2	1.950	0.00	2.170	4.91	0.00
2	96	20.10	2264.0	1.950	0.00	2.170	4.91	0.00
2	97	20.10	2264.9	1.950	0.00	2.170	4.91	0.00
2	98	20.10	2265.7	1.950	0.00	2.170	4.92	0.00
2	99	20.10	2266.5	1.950	0.00	2.170	4.92	0.00
2	100	20.10	2267.3	1.950	0.00	2.170	4.92	0.00
2	101	20.10	2268.1	1.950	0.00	2.170	4.92	0.00
2	102	20.10	2268.9	1.950	0.00	2.170	4.92	0.00
2	103	20.10	2269.7	1.950	0.00	2.170	4.93	0.00
2	104	20.10	2270.5	1.950	0.00	2.170	4.93	0.00
2	105	20.10	2271.3	1.950	0.00	2.170	4.93	0.00
2	106	20.10	2272.1	1.950	0.00	2.170	4.93	0.00
2	107	20.10	2272.9	1.950	0.00	2.170	4.93	0.00
2	108	20.10	2273.7	1.950	0.00	2.170	4.93	0.00
2	109	20.10	2274.5	1.950	0.00	2.170	4.94	0.00
2	110	20.10	2275.3	1.950	0.00	2.170	4.94	0.00
2	111	20.10	2276.1	1.950	0.00	2.170	4.94	0.00
2	112	20.10	2276.8	1.950	0.00	2.170	4.94	0.00
2	113	20.10	2277.6	1.950	0.00	2.170	4.94	0.00
2	114	20.10	2278.4	1.950	0.00	2.170	4.94	0.00
2	115	20.10	2279.2	1.950	0.00	2.170	4.95	0.00
2	116	20.10	2280.0	1.950	0.00	2.170	4.95	0.00
2	117	20.10	2280.7	1.950	0.00	2.170	4.95	0.00
2	118	20.10	2281.5	1.950	0.00	2.170	4.95	0.00
2	119	20.10	2317.9	1.950	0.00	2.170	5.03	0.00
2	120	20.10	2318.5	1.950	0.00	2.170	5.03	0.00
2	121	20.10	2319.2	1.950	0.00	2.170	5.03	0.00
2	122	20.10	2319.9	1.950	0.00	2.170	5.03	0.00
2	123	20.10	2320.6	1.950	0.00	2.170	5.04	0.00
2	124	20.10	2321.3	1.950	0.00	2.170	5.04	0.00
2	125	20.10	2322.0	1.950	0.00	2.170	5.04	0.00
2	126	20.10	2322.6	1.950	0.00	2.170	5.04	0.00
2	127	20.10	2323.3	1.950	0.00	2.170	5.04	0.00
2	128	20.10	2324.0	1.950	0.00	2.170	5.04	0.00
2	129	20.10	2324.7	1.950	0.00	2.170	5.04	0.00
2	130	20.10	2325.3	1.950	0.00	2.170	5.05	0.00
2	131	20.10	2326.0	1.950	0.00	2.170	5.05	0.00
2	132	20.10	2326.7	1.950	0.00	2.170	5.05	0.00
2	133	20.10	2327.3	1.950	0.00	2.170	5.05	0.00
2	134	20.10	2328.0	1.950	0.00	2.170	5.05	0.00
2	135	20.10	2328.7	1.950	0.00	2.170	5.05	0.00
2	136	20.10	2329.3	1.950	0.00	2.170	5.05	0.00
2	137	20.10	2330.0	1.950	0.00	2.170	5.06	0.00
2	138	20.10	2330.7	1.950	0.00	2.170	5.06	0.00
2	139	20.10	2331.3	1.950	0.00	2.170	5.06	0.00
2	140	20.10	2332.0	1.950	0.00	2.170	5.06	0.00
2	141	20.10	2332.6	1.950	0.00	2.170	5.06	0.00

2	142	20.10	2354.4	1.950	0.00	2.170	5.11	0.00
2	143	20.10	2355.0	1.950	0.00	2.170	5.11	0.00
2	144	20.10	2355.6	1.950	0.00	2.170	5.11	0.00
2	145	20.10	2356.2	1.950	0.00	2.170	5.11	0.00
2	146	20.10	2356.8	1.950	0.00	2.170	5.11	0.00
2	147	20.10	2357.4	1.950	0.00	2.170	5.12	0.00
2	148	20.10	2358.0	1.950	0.00	2.170	5.12	0.00
2	149	20.10	2358.6	1.950	0.00	2.170	5.12	0.00
2	150	20.10	2359.3	1.950	0.00	2.170	5.12	0.00
2	151	20.10	2359.9	1.950	0.00	2.170	5.12	0.00
2	152	20.10	2360.5	1.950	0.00	2.170	5.12	0.00
2	153	20.10	2361.1	1.950	0.00	2.170	5.12	0.00
2	154	20.10	2361.7	1.950	0.00	2.170	5.12	0.00
2	155	20.10	2362.3	1.950	0.00	2.170	5.13	0.00
2	156	20.10	2362.9	1.950	0.00	2.170	5.13	0.00
2	157	20.10	2363.5	1.950	0.00	2.170	5.13	0.00
2	158	20.10	2364.1	1.950	0.00	2.170	5.13	0.00
2	159	20.10	2364.6	1.950	0.00	2.170	5.13	0.00
2	160	20.10	2365.2	1.950	0.00	2.170	5.13	0.00
2	161	20.10	2365.8	1.950	0.00	2.170	5.13	0.00
2	162	20.10	2366.4	1.950	0.00	2.170	5.14	0.00
2	163	20.10	2367.0	1.950	0.00	2.170	5.14	0.00
2	164	20.10	2367.6	1.950	0.00	2.170	5.14	0.00
2	165	20.10	2368.2	1.950	0.00	2.170	5.14	0.00
2	166	20.10	2368.8	1.950	0.00	2.170	5.14	0.00
2	167	20.10	2369.4	1.950	0.00	2.170	5.14	0.00
2	168	20.10	2369.9	1.950	0.00	2.170	5.14	0.00
2	169	20.10	2370.5	1.950	0.00	2.170	5.14	0.00
2	170	20.10	2371.1	1.950	0.00	2.170	5.15	0.00
2	171	20.10	2371.7	1.950	0.00	2.170	5.15	0.00
2	172	20.10	2372.3	1.950	0.00	2.170	5.15	0.00
2	173	20.10	2372.9	1.950	0.00	2.170	5.15	0.00
2	174	20.10	2373.4	1.950	0.00	2.170	5.15	0.00
2	175	20.10	2374.0	1.950	0.00	2.170	5.15	0.00
2	176	20.10	2374.6	1.950	0.00	2.170	5.15	0.00
2	177	20.10	2375.2	1.950	0.00	2.170	5.15	0.00
2	178	20.10	2375.7	1.950	0.00	2.170	5.16	0.00
2	179	20.10	2376.3	1.950	0.00	2.170	5.16	0.00
2	180	20.10	2376.9	1.950	0.00	2.170	5.16	0.00
2	181	20.10	2377.5	1.950	0.00	2.170	5.16	0.00
2	182	20.10	2378.0	1.950	0.00	2.170	5.16	0.00
2	183	20.10	2378.6	1.950	0.00	2.170	5.16	0.00
2	184	20.10	2379.2	1.950	0.00	2.170	5.16	0.00
2	185	20.10	2379.7	1.950	0.00	2.170	5.16	0.00
2	186	20.10	2380.3	1.950	0.00	2.170	5.17	0.00
2	187	20.10	2380.9	1.950	0.00	2.170	5.17	0.00
2	188	20.10	2381.4	1.950	0.00	2.170	5.17	0.00
2	189	20.10	2382.0	1.950	0.00	2.170	5.17	0.00
2	190	20.10	2382.6	1.950	0.00	2.170	5.17	0.00
2	191	20.10	2383.1	1.950	0.00	2.170	5.17	0.00
2	192	20.10	2383.7	1.950	0.00	2.170	5.17	0.00
2	193	20.10	2384.3	1.950	0.00	2.170	5.17	0.00
2	194	20.10	2384.8	1.950	0.00	2.170	5.18	0.00
2	195	20.10	2385.4	1.950	0.00	2.170	5.18	0.00
2	196	20.10	2385.9	1.950	0.00	2.170	5.18	0.00
2	197	20.10	2386.5	1.950	0.00	2.170	5.18	0.00
2	198	20.10	2387.0	1.950	0.00	2.170	5.18	0.00
2	199	20.10	2387.6	1.950	0.00	2.170	5.18	0.00
2	200	20.10	2388.1	1.950	0.00	2.170	5.18	0.00

2	201	20.10	2388.7	1.950	0.00	2.170	5.18	0.00
2	202	20.10	2389.2	1.950	0.00	2.170	5.18	0.00
2	203	20.10	2389.8	1.950	0.00	2.170	5.19	0.00
2	204	20.10	2390.3	1.950	0.00	2.170	5.19	0.00
2	205	20.10	2390.9	1.950	0.00	2.170	5.19	0.00
2	206	20.10	2391.4	1.950	0.00	2.170	5.19	0.00
2	207	20.10	2392.0	1.950	0.00	2.170	5.19	0.00
2	208	20.10	2392.5	1.950	0.00	2.170	5.19	0.00
2	209	20.10	2393.1	1.950	0.00	2.170	5.19	0.00
2	210	20.10	2393.6	1.950	0.00	2.170	5.19	0.00
2	211	20.10	2394.2	1.950	0.00	2.170	5.20	0.00
2	212	20.10	2394.7	1.950	0.00	2.170	5.20	0.00
2	213	20.10	2395.2	1.950	0.00	2.170	5.20	0.00
2	214	20.10	2395.8	1.950	0.00	2.170	5.20	0.00
2	215	20.10	2396.3	1.950	0.00	2.170	5.20	0.00
2	216	20.10	2396.9	1.950	0.00	2.170	5.20	0.00
2	217	20.10	2397.4	1.950	0.00	2.170	5.20	0.00
2	218	20.10	2397.9	1.950	0.00	2.170	5.20	0.00
2	219	20.10	2398.5	1.950	0.00	2.170	5.20	0.00
2	220	20.10	2399.0	1.950	0.00	2.170	5.21	0.00
2	221	20.10	2399.5	1.950	0.00	2.170	5.21	0.00
2	222	20.10	2400.1	1.950	0.00	2.170	5.21	0.00
2	223	20.10	2400.6	1.950	0.00	2.170	5.21	0.00
2	224	20.10	2401.1	1.950	0.00	2.170	5.21	0.00
2	225	20.10	2401.7	1.950	0.00	2.170	5.21	0.00
2	226	20.10	2402.2	1.950	0.00	2.170	5.21	0.00
2	227	20.10	2402.7	1.950	0.00	2.170	5.21	0.00
2	228	20.10	2403.3	1.950	0.00	2.170	5.22	0.00
2	229	20.10	2403.8	1.950	0.00	2.170	5.22	0.00
2	230	20.10	2404.3	1.950	0.00	2.170	5.22	0.00
2	231	20.10	2424.4	1.950	0.00	2.170	5.26	0.00
2	232	20.10	2424.9	1.950	0.00	2.170	5.26	0.00
2	233	20.10	2425.4	1.950	0.00	2.170	5.26	0.00
2	234	20.10	2425.8	1.950	0.00	2.170	5.26	0.00
2	235	20.10	2426.3	1.950	0.00	2.170	5.27	0.00
2	236	20.10	2426.8	1.950	0.00	2.170	5.27	0.00
2	237	20.10	2427.3	1.950	0.00	2.170	5.27	0.00
2	238	20.10	2427.8	1.950	0.00	2.170	5.27	0.00
2	239	20.10	2428.3	1.950	0.00	2.170	5.27	0.00
2	240	20.10	2428.8	1.950	0.00	2.170	5.27	0.00
2	241	20.10	2429.3	1.950	0.00	2.170	5.27	0.00
3	242	20.10	2817.7	1.950	0.00	2.660	7.50	0.00
3	243	20.10	2818.3	1.950	0.00	2.660	7.50	0.00
3	244	20.10	2818.8	1.950	0.00	2.660	7.50	0.00
3	245	20.10	2819.4	1.950	0.00	2.660	7.50	0.00
3	246	20.10	2820.0	1.950	0.00	2.660	7.50	0.00
3	247	20.10	2820.5	1.950	0.00	2.660	7.50	0.00
3	248	20.10	2821.1	1.950	0.00	2.670	7.53	0.00
3	249	20.10	2821.6	1.950	0.00	2.670	7.53	0.00
3	250	20.10	2822.2	1.950	0.00	2.670	7.54	0.00
3	251	20.10	2822.8	1.950	0.00	2.670	7.54	0.00
3	252	20.10	2823.3	1.950	0.00	2.670	7.54	0.00
3	253	20.10	2823.9	1.950	0.00	2.670	7.54	0.00
3	254	20.10	2824.4	1.950	0.00	2.670	7.54	0.00
3	255	20.10	2825.0	1.950	0.00	2.670	7.54	0.00
3	256	20.10	2825.5	1.950	0.00	2.680	7.57	0.00
3	257	20.10	2826.1	1.950	0.00	2.680	7.57	0.00
3	258	20.10	2826.6	1.950	0.00	2.680	7.58	0.00
3	259	20.10	2827.2	1.950	0.00	2.680	7.58	0.00

3	260	20.10	2827.7	1.950	0.00	2.680	7.58	0.00
3	261	20.10	2828.3	1.950	0.00	2.680	7.58	0.00
3	262	20.10	2828.8	1.950	0.00	2.680	7.58	0.00
3	263	20.10	2829.4	1.950	0.00	2.680	7.58	0.00
3	264	20.10	2829.9	1.950	0.00	2.690	7.61	0.00
3	265	20.10	2830.5	1.950	0.00	2.690	7.61	0.00
3	266	20.10	2831.0	1.950	0.00	2.690	7.62	0.00
3	267	20.10	2831.6	1.950	0.00	2.690	7.62	0.00
3	268	20.10	2832.1	1.950	0.00	2.690	7.62	0.00
3	269	20.10	2832.7	1.950	0.00	2.690	7.62	0.00
3	270	20.10	2833.2	1.950	0.00	2.690	7.62	0.00
3	271	20.10	2833.7	1.950	0.00	2.690	7.62	0.00
3	272	20.10	2834.3	1.950	0.00	2.700	7.65	0.00
3	273	20.10	2834.8	1.950	0.00	2.700	7.65	0.00
3	274	20.10	2835.4	1.950	0.00	2.700	7.66	0.00
3	275	20.10	2835.9	1.950	0.00	2.700	7.66	0.00
3	276	20.10	2836.4	1.950	0.00	2.700	7.66	0.00
3	277	20.10	2837.0	1.950	0.00	2.700	7.66	0.00
3	278	20.10	2837.5	1.950	0.00	2.700	7.66	0.00
3	279	20.10	2838.1	1.950	0.00	2.700	7.66	0.00
3	280	20.10	2838.6	1.950	0.00	2.710	7.69	0.00
3	281	20.10	2839.1	1.950	0.00	2.710	7.69	0.00
3	282	20.10	2839.7	1.950	0.00	2.710	7.70	0.00
3	283	20.10	2840.2	1.950	0.00	2.710	7.70	0.00
3	284	20.10	2840.7	1.950	0.00	2.710	7.70	0.00
3	285	20.10	2841.3	1.950	0.00	2.710	7.70	0.00
3	286	20.10	2841.8	1.950	0.00	2.710	7.70	0.00
3	287	20.10	2842.3	1.950	0.00	2.710	7.70	0.00
3	288	20.10	2842.8	1.950	0.00	2.720	7.73	0.00
3	289	20.10	2843.4	1.950	0.00	2.720	7.73	0.00
3	290	20.10	2843.9	1.950	0.00	2.720	7.74	0.00
3	291	20.10	2844.4	1.950	0.00	2.720	7.74	0.00
3	292	20.10	2844.9	1.950	0.00	2.720	7.74	0.00
3	293	20.10	2845.5	1.950	0.00	2.720	7.74	0.00
3	294	20.10	2846.0	1.950	0.00	2.720	7.74	0.00
3	295	20.10	2846.5	1.950	0.00	2.720	7.74	0.00
3	296	20.10	2847.1	1.950	0.00	2.730	7.77	0.00
3	297	20.10	2847.6	1.950	0.00	2.730	7.77	0.00
3	298	20.10	2848.1	1.950	0.00	2.730	7.78	0.00
3	299	20.10	2848.6	1.950	0.00	2.730	7.78	0.00
3	300	20.10	2849.1	1.950	0.00	2.730	7.78	0.00
3	301	20.10	2849.7	1.950	0.00	2.730	7.78	0.00
3	302	20.10	2850.2	1.950	0.00	2.730	7.78	0.00
3	303	20.10	2850.7	1.950	0.00	2.730	7.78	0.00
3	304	20.10	2851.2	1.950	0.00	2.740	7.81	0.00
3	305	20.10	2851.7	1.950	0.00	2.740	7.81	0.00
3	306	20.10	2852.3	1.950	0.00	2.740	7.82	0.00
3	307	20.10	2852.8	1.950	0.00	2.740	7.82	0.00
3	308	20.10	2853.3	1.950	0.00	2.740	7.82	0.00
3	309	20.10	2853.8	1.950	0.00	2.740	7.82	0.00
3	310	20.10	2854.3	1.950	0.00	2.740	7.82	0.00
3	311	20.10	2854.8	1.950	0.00	2.740	7.82	0.00
3	312	20.10	2855.3	1.950	0.00	2.750	7.85	0.00
3	313	20.10	2855.9	1.950	0.00	2.750	7.85	0.00
3	314	20.10	2856.4	1.950	0.00	2.750	7.85	0.00
3	315	20.10	2856.9	1.950	0.00	2.750	7.86	0.00
3	316	20.10	2857.4	1.950	0.00	2.750	7.86	0.00
3	317	20.10	2857.9	1.950	0.00	2.750	7.86	0.00
3	318	20.10	2858.4	1.950	0.00	2.750	7.86	0.00

3	319	20.10	2858.9	1.950	0.00	2.760	7.89	0.00
3	320	20.10	2859.4	1.950	0.00	2.760	7.89	0.00
3	321	20.10	2859.9	1.950	0.00	2.760	7.89	0.00
3	322	20.10	2860.4	1.950	0.00	2.760	7.89	0.00
3	323	20.10	2860.9	1.950	0.00	2.760	7.90	0.00
3	324	20.10	2861.4	1.950	0.00	2.760	7.90	0.00
3	325	20.10	2861.9	1.950	0.00	2.760	7.90	0.00
3	326	20.10	2862.4	1.950	0.00	2.760	7.90	0.00
3	327	20.10	2862.9	1.950	0.00	2.770	7.93	0.00
3	328	20.10	2863.4	1.950	0.00	2.770	7.93	0.00
3	329	20.10	2863.9	1.950	0.00	2.770	7.93	0.00
3	330	20.10	2864.4	1.950	0.00	2.770	7.93	0.00
3	331	20.10	2864.9	1.950	0.00	2.770	7.94	0.00
3	332	20.10	2865.4	1.950	0.00	2.770	7.94	0.00
3	333	20.10	2865.9	1.950	0.00	2.770	7.94	0.00
3	334	20.10	2866.4	1.950	0.00	2.770	7.94	0.00
3	335	20.10	2866.9	1.950	0.00	2.780	7.97	0.00
3	336	20.10	2867.4	1.950	0.00	2.780	7.97	0.00
3	337	20.10	2867.9	1.950	0.00	2.780	7.97	0.00
3	338	20.10	2868.4	1.950	0.00	2.780	7.97	0.00
3	339	20.10	2868.9	1.950	0.00	2.780	7.98	0.00
3	340	20.10	2869.4	1.950	0.00	2.780	7.98	0.00
3	341	20.10	2869.9	1.950	0.00	2.780	7.98	0.00
3	342	20.10	2870.4	1.950	0.00	2.780	7.98	0.00
3	343	20.10	2870.9	1.950	0.00	2.790	8.01	0.00
3	344	20.10	2871.4	1.950	0.00	2.790	8.01	0.00
3	345	20.10	2871.9	1.950	0.00	2.790	8.01	0.00
3	346	20.10	2872.4	1.950	0.00	2.790	8.01	0.00
3	347	20.10	2872.9	1.950	0.00	2.790	8.02	0.00
3	348	20.10	2873.4	1.950	0.00	2.790	8.02	0.00
3	349	20.10	2873.9	1.950	0.00	2.790	8.02	0.00
3	350	20.10	2874.3	1.950	0.00	2.800	8.05	0.00
3	351	20.10	2874.8	1.950	0.00	2.800	8.05	0.00
3	352	20.10	2875.3	1.950	0.00	2.800	8.05	0.00
3	353	20.10	2875.8	1.950	0.00	2.800	8.05	0.00
3	354	20.10	2876.3	1.950	0.00	2.800	8.05	0.00
3	355	20.10	2876.8	1.950	0.00	2.800	8.05	0.00
3	356	20.10	2877.3	1.950	0.00	2.800	8.06	0.00
3	357	20.10	2877.7	1.950	0.00	2.800	8.06	0.00
3	358	20.10	2878.2	1.950	0.00	2.810	8.09	0.00
3	359	20.10	2878.7	1.950	0.00	2.810	8.09	0.00
3	360	20.10	2879.2	1.950	0.00	2.810	8.09	0.00
3	361	20.10	2879.7	1.950	0.00	2.810	8.09	0.00
3	362	20.10	2880.1	1.950	0.00	2.810	8.09	0.00
3	363	20.10	2880.6	1.950	0.00	2.810	8.09	0.00
3	364	20.10	2881.1	1.950	0.00	2.810	8.10	0.00
3	365	20.10	2881.6	1.950	0.00	2.810	8.10	0.00
3	366	20.10	2882.1	1.950	0.00	2.820	8.13	0.00
3	367	20.10	2882.6	1.950	0.00	2.820	8.13	0.00
3	368	20.10	2883.0	1.950	0.00	2.820	8.13	0.00
3	369	20.10	2883.5	1.950	0.00	2.820	8.13	0.00
3	370	20.10	2884.0	1.950	0.00	2.820	8.13	0.00
3	371	20.10	2884.5	1.950	0.00	2.820	8.13	0.00
3	372	20.10	2884.9	1.950	0.00	2.820	8.14	0.00
3	373	20.10	2885.4	1.950	0.00	2.830	8.17	0.00
3	374	20.10	2885.9	1.950	0.00	2.830	8.17	0.00
3	375	20.10	2886.4	1.950	0.00	2.830	8.17	0.00
3	376	20.10	2886.8	1.950	0.00	2.830	8.17	0.00
4	377	21.10	259400.0	1.950	0.00	0.000	0.00	0.00

Subsegment totals:	2207.26	0.00

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

Equations used: Flow rate from TMDL calcs = Permit flow rate * 1.250 (to incorporate MOS and FG)
(Load, kg/day) = (Flow rate, MGD) * (Conc., mg/L) * 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg

Assumptions: Ratio of CBODu to CBOD5 for point source dissharges = 2.3 (guidance from LTP).
For permits with BOD or ammonia limits, NO2+NO3 = 10 mg/L (drinking water criteria).
For permits with COD limits, assume that CBODu is about the same magnitude as COD and that discharges of nitrogen (organic, ammonia, and NO2+NO3) are negligible.

NPDES permit number	Outfall number	Permit flow rate (MGD)	Factor to incorporate MOS and FG into flow	Flow rate for TMDL calcs (MGD	Comments
LA0049484	001	0.185	1.250	0.231	North Pond STP
LA0053261	001	0.122	1.250	0.153	Gibsland MWTP
LA0080446	002	0.097	1.250	0.121	Taylor Sawmill Weyco
LA0080446	003	0.008	1.250	0.010	Taylor Sawmill Weyco
LA0080446	005	0.270	1.250	0.338	Taylor Sawmill Weyco
LAG480478	001	0.000	1.250	0.000	Tesco Services Inc.
LAG490016	004	0.000	1.250	0.000	Tesco Services Inc.
LAG540420	001	0.015	1.250	0.019	Ada Rest Area East
LAG540421	001	0.015	1.250	0.019	Ada Rest Area West
LAG560094	001	0.050	1.250	0.063	Athens WWTP

User specified permit limits:

NPDES permit number	Outfall number	CBOD5 (mg/L)	COD (mg/L)	Ammonia (mg/L)	Comments
LA0049484	001	10.0	0.0	1.7	
LA0053261	001	10.0	0.0	1.7	
LA0080446	002	0.0	200.0	0.0	
LA0080446	003	45.0	0.0	3.3	
LA0080446	005	0.0	250.0	0.0	
LAG480478	001	0.0	200.0	0.0	
LAG490016	004	0.0	200.0	0.0	
LAG540420	001	30.0	0.0	3.3	
LAG540421	001	30.0	0.0	3.3	
LAG560094	001	20.0	0.0	3.3	

Values for TMDL calculations:

NPDES permit number	Outfall number	CBODu (mg/L)	Organic N (mg/L)	Ammonia N (mg/L)	NO2+NO3 N (mg/L)	Comments
LA0049484	001	23.00	3.40	1.70	0.00	
LA0053261	001	23.00	3.40	1.70	0.00	
LA0080446	002	200.00	0.00	0.00	0.00	
LA0080446	003	103.50	6.60	3.30	0.00	
LA0080446	005	250.00	0.00	0.00	0.00	
LAG480478	001	200.00	0.00	0.00	0.00	
LAG490016	004	200.00	0.00	0.00	0.00	
LAG540420	001	69.00	6.60	3.30	0.00	
LAG540421	001	69.00	6.60	3.30	0.00	
LAG560094	001	46.00	6.60	3.30	0.00	

Calculated loads:

NPDES permit number	Outfall number	CBODu (kg/day)	Organic N (kg/day)	AmmoniaN (kg.day)	NO2+NO3 N (kg.day)	Comments
LA0049484	001	20.13	2.98	1.49	0.00	
LA0053261	001	13.28	1.96	0.98	0.00	
LA0080446	002	91.79	0.00	0.00	0.00	
LA0080446	003	3.92	0.25	0.12	0.00	
LA0080446	005	319.36	0.00	0.00	0.00	
LAG480478	001	0.01	0.00	0.00	0.00	
LAG490016	004	0.01	0.00	0.00	0.00	
LAG540420	001	4.90	0.47	0.23	0.00	
LAG540421	001	4.90	0.47	0.23	0.00	
LAG560094	001	10.88	1.56	0.78	0.00	
Subsegment total		469.17	7.69	3.84	0.00	

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SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

Nitrogen loads (kg/day of N):

	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	231.25	210.57	25.48	5.92
Mass LOads (data type 19)	N/A	96.80	21.34	N/A	N/A
SOD and Benthic	2207.26	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

Oygen demand loads: Total

	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	Oxygen demand (kg/day)
NPS inflows	N/A	231.25	911.79	110.31	1253.34
Mass LOads (data type 19)	N/A	96.80	92.40	N/A	189.20
SOD and Benthic	2207.26	N/A	N/A	0.00	2207.26
Total for all NPS loads	2207.26	328.05	1004.19	110.31	3649.81
NPS future growth (10.0%)	220.73	32.80	100.42	11.03	364.98
NPS margin of safety (10.0%)	220.73	32.80	100.42	11.03	364.98
NPS load allocation (80.0%)	1765.80	262.45	803.35	88.25	2919.85

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SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of Safety = 10.0% * point source load
Future Growth = 10.0% * nonpoint source load
Wasteload Allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload Allocation (WLA) for minor point sources = 80.0% * calculated load

Values from calculations above

	Nitrogen loads (kg/day of N): CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	NO3+NO2 (kg/day)
Calculated load for minor point source	469.17	7.69	3.84	0.00

Calculated loads of oxygen demand

	Oygen demand loads: CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	Total Oxygen demand (kg/day)
Calculated load for minor point source	469.17	33.28	16.64	519.09
Total for all point source loads	469.17	33.28	16.64	519.09
MOS for all point Sources (10.0%)	46.92	3.33	1.66	51.91
FG for all point Sources (10.0%)	46.92	3.33	1.66	51.91
WLA for minor point sources (80.0%)	375.34	26.63	13.31	415.27

TMDL CALCULATIONS FOR SUBSEGMENT: 100703 Black & Clear Lks
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl703s.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl703s.out
Date/Time:Output produced at 14:38 on 10/18/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 73) is in subsegment 100703 Black Lake
Reach 2 (Elements 74 - 129) is in subsegment 100703 Clear Lake
Reach 3 (Elements 130 - 162) is in subsegment 100703 Black Lake Bayo
Reach 4 (Elements 163 - 184) is in subsegment 100703 Praire
Reach 5 (Elements 185 - 192) is in subsegment 100703 Bayou Baubeaux
Reach 6 (Elements 193 - 193) is in subsegment 100803 Dummy Element

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	0.33430	1.02	1.15	0.13	0.00	Black Lake Bayou
163	0.20300	3.87	1.06	0.12	0.00	Prairie Lake
12	0.00300	1.79	0.97	0.15	0.05	NPS Grand Bayou
129	-0.20300	3.87	1.06	0.12	0.05	NPS Clear Lake out
1	0.03420	1.38	1.38	0.14	0.05	Incremental Reach flow
2	0.02630	1.38	1.38	0.14	0.05	Incremental Reach flow

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	29.46	33.22	3.75	0.00
163	67.88	18.59	2.10	0.00
12	0.46	0.25	0.04	0.01
129	-67.88	-18.59	-2.10	-0.88
1	4.08	4.08	0.41	0.15
2	3.14	3.14	0.32	0.11
Subsegment totals:	-60.88	40.68	4.52	-0.61

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	10902.00	752.00
2	35880.00	2484.00
3	1553.00	107.00
4	10695.00	276.00
5	566.00	10.40
6	0.00	0.00
Subsegment totals	59596.00	3629.40

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	2	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	3	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	4	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	5	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	6	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	7	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	8	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	9	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	10	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	11	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	12	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	13	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	14	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	15	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	16	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	17	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	18	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	19	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	20	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	21	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	22	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	23	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	24	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	25	30.70	259400.0	2.940	0.00	2.940	762.64	0.00

1	26	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	27	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	28	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	29	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	30	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	31	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	32	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	33	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	34	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	35	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	36	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	37	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	38	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	39	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	40	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	41	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	42	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	43	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	44	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	45	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	46	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	47	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	48	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	49	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	50	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	51	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	52	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	53	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	54	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	55	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	56	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	57	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	58	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	59	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	60	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	61	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	62	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	63	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	64	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	65	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	66	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	67	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	68	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	69	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	70	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	71	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	72	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
1	73	30.70	259400.0	2.940	0.00	2.940	762.64	0.00
2	74	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	75	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	76	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	77	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	78	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	79	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	80	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	81	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	82	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	83	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	84	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00

2	85	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	86	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	87	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	88	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	89	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	90	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	91	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	92	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	93	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	94	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	95	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	96	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	97	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	98	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	99	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	100	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	101	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	102	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	103	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	104	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	105	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	106	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	107	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	108	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	109	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	110	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	111	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	112	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	113	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	114	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	115	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	116	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	117	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	118	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	119	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	120	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	121	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	122	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	123	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	124	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	125	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	126	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	127	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	128	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
2	129	30.70	339800.0	2.940	0.00	3.010	1022.80	0.00
3	130	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	131	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	132	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	133	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	134	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	135	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	136	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	137	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	138	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	139	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	140	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	141	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	142	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	143	30.70	22000.0	2.940	0.00	4.400	96.80	0.00

3	144	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	145	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	146	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	147	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	148	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	149	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	150	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	151	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	152	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	153	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	154	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	155	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	156	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	157	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	158	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	159	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	160	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	161	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
3	162	30.70	22000.0	2.940	0.00	4.400	96.80	0.00
4	163	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	164	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	165	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	166	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	167	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	168	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	169	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	170	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	171	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	172	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	173	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	174	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	175	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	176	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	177	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	178	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	179	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	180	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	181	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	182	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	183	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
4	184	30.70	520800.0	2.940	0.00	2.980	1551.98	0.00
5	185	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	186	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	187	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	188	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	189	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	190	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	191	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
5	192	30.70	12200.0	2.940	0.00	2.570	31.35	0.00
6	193	30.70	22000.0	2.940	0.00	0.000	0.00	0.00
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			Subsegment totals:			150537.91	0.00	

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.
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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

Equations used: Flow rate from TMDL calcs = Permit flow rate * 1.250 (to incorporate MOS and FG)
(Load, kg/day) = (Flow rate, MGD) * (Conc., mg/L) * 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg

Assumptions: Ratio of CBODu to CBOD5 for point source dissharges = 2.3 (guidance from LTP).
For permits with BOD or ammonia limits, NO2+NO3 = 10 mg/L (drinking water criteria).
For permits with COD limits, assume that CBODu is about the same magnitude as COD and that discharges of nitrogen (organic, ammonia, and NO2+NO3) are negligible.

NPDES permit number	Outfall number	Permit flow rate (MGD)	Factor to incorporate MOS and FG into flow	Flow rate for TMDL calcs (MGD	Comments
LAG541156	001	0.009	1.250	0.012	Nachitoches School Dist
LAG541299	001	0.012	1.250	0.015	Lakeview Jr & Sr High

User specified permit limits:

NPDES permit number	Outfall number	CBOD5 (mg/L)	COD (mg/L)	Ammonia (mg/L)	Comments
LAG541156	001	30.0	0.0	3.3	
LAG541299	001	30.0	0.0	3.3	

Values for TMDL calculations:

NPDES permit number	Outfall number	CBODu (mg/L)	Organic N (mg/L)	Ammonia N (mg/L)	NO2+NO3 N (mg/L)	Comments
LAG541156	001	69.00	6.60	3.30	0.00	
LAG541299	001	69.00	6.60	3.30	0.00	

Calculated loads:

NPDES permit number	Outfall number	CBODu (kg/day)	Organic N (kg/day)	AmmoniaN (kg.day)	NO2+NO3 N (kg.day)	Comments
LAG541156	001	3.04	0.29	0.15	0.00	
LAG541299	001	3.84	0.37	0.18	0.00	
Subsegment total		6.88	0.66	0.33	0.00	

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SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N

Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

	Nitrogen loads (kg/day of N):				
	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	-60.88	40.68	4.52	-0.61
Mass LOads (data type 19)	N/A	59596.00	3629.40	N/A	N/A
SOD and Benthic	150537.91	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

	Oygen demand loads:				Total Oxygen
	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	demand (kg/day)
NPS inflows	N/A	-60.88	176.16	19.58	134.86
Mass LOads (data type 19)	N/A	59596.00	15715.30	N/A	75311.30
SOD and Benthic	150537.91	N/A	N/A	0.00	150537.91
Total for all NPS loads	150537.91	59535.12	15891.46	19.58	225984.06
NPS future growth (10.0%)	15053.79	5953.51	1589.15	1.96	22598.40
NPS margin of safety (10.0%)	15053.79	5953.51	1589.15	1.96	22598.40
NPS load allocation (80.0%)	120430.33	47628.10	12713.16	15.66	180787.27

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SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of Safety = 10.0% * point source load
Future Growth = 10.0% * nonpoint source load
Wasteload Allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload Allocation (WLA) for minor point sources = 80.0% * calculated load

Values from calculations above

	Nitrogen loads (kg/day of N):			
	CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	NO3+NO2 (kg/day)
Calculated load for minor point source	6.88	0.66	0.33	0.00

Calculated loads of oxygen demand

	Oygen demand loads:			Total Oxygen
	CBODu	Organic N	Ammonia N	demand

	(kg/day)	(kg/day)	(kg/day)	(kg/day)
Calculated load for minor point source	6.88	2.85	1.43	11.16
Total for all point source loads	6.88	2.85	1.43	11.16
MOS for all point Sources (10.0%)	0.69	0.29	0.14	1.12
FG for all point Sources (10.0%)	0.69	0.29	0.14	1.12
WLA for minor point sources (80.0%)	5.51	2.28	1.14	8.93

TMDL CALCULATIONS FOR SUBSEGMENT: 100703 Black & Clear Lks
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl703w.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl703w.out
Date/Time:Output produced at 15:56 on 10/18/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 73) is in subsegment 100703 Black Lake
Reach 2 (Elements 74 - 129) is in subsegment 100703 Clear Lake
Reach 3 (Elements 130 - 162) is in subsegment 100703 Black Lake Bayo
Reach 4 (Elements 163 - 184) is in subsegment 100703 Praire
Reach 5 (Elements 185 - 192) is in subsegment 100703 Bayou Baubeaux
Reach 6 (Elements 193 - 193) is in subsegment 100803 Dummy Element

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	1.45411	1.46	1.36	0.22	0.00	Black Lake Bayou
163	0.85650	7.55	1.64	0.28	0.00	Praire Lake
12	0.00300	2.31	1.25	0.20	0.05	NPS Grand Bayou
129	-0.85650	7.74	1.66	0.29	0.05	NPS Clear Lake out
1	0.14480	1.78	1.78	0.18	0.05	Incremental Reach flow
2	0.11110	1.78	1.78	0.18	0.05	Incremental Reach flow

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	183.43	170.86	27.64	0.00
163	558.71	121.36	20.72	0.00
12	0.60	0.32	0.05	0.01
129	-572.77	-122.84	-21.46	-3.70
1	22.27	22.27	2.25	0.63
2	17.09	17.09	1.73	0.48
Subsegment totals:	-538.54	209.06	30.93	-2.58

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	14062.00	970.00
2	46280.00	3204.00
3	2003.00	138.00
4	13795.00	356.00
5	730.00	13.40
6	0.00	0.00
Subsegment totals	76870.00	4681.40

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	2	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	3	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	4	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	5	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	6	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	7	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	8	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	9	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	10	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	11	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	12	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	13	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	14	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	15	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	16	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	17	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	18	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	19	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	20	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	21	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	22	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	23	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	24	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	25	21.10	259400.0	2.070	0.00	2.070	536.96	0.00

1	26	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	27	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	28	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	29	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	30	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	31	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	32	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	33	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	34	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	35	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	36	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	37	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	38	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	39	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	40	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	41	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	42	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	43	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	44	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	45	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	46	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	47	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	48	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	49	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	50	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	51	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	52	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	53	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	54	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	55	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	56	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	57	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	58	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	59	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	60	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	61	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	62	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	63	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	64	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	65	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	66	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	67	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	68	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	69	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	70	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	71	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	72	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
1	73	21.10	259400.0	2.070	0.00	2.070	536.96	0.00
2	74	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	75	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	76	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	77	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	78	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	79	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	80	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	81	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	82	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	83	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	84	21.10	339800.0	2.070	0.00	2.120	720.38	0.00

2	85	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	86	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	87	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	88	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	89	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	90	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	91	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	92	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	93	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	94	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	95	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	96	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	97	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	98	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	99	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	100	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	101	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	102	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	103	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	104	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	105	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	106	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	107	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	108	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	109	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	110	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	111	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	112	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	113	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	114	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	115	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	116	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	117	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	118	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	119	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	120	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	121	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	122	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	123	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	124	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	125	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	126	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	127	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	128	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
2	129	21.10	339800.0	2.070	0.00	2.120	720.38	0.00
3	130	21.10	22000.0	2.070	0.00	3.100	68.20	0.00
3	131	21.10	22000.0	2.070	0.00	3.110	68.42	0.00
3	132	21.10	22000.0	2.070	0.00	3.110	68.42	0.00
3	133	21.10	22000.0	2.070	0.00	3.110	68.42	0.00
3	134	21.10	22000.0	2.070	0.00	3.120	68.64	0.00
3	135	21.10	22000.0	2.070	0.00	3.120	68.64	0.00
3	136	21.10	22000.0	2.070	0.00	3.130	68.86	0.00
3	137	21.10	22000.0	2.070	0.00	3.130	68.86	0.00
3	138	21.10	22000.0	2.070	0.00	3.130	68.86	0.00
3	139	21.10	22000.0	2.070	0.00	3.140	69.08	0.00
3	140	21.10	22000.0	2.070	0.00	3.140	69.08	0.00
3	141	21.10	22000.0	2.070	0.00	3.140	69.08	0.00
3	142	21.10	22000.0	2.070	0.00	3.150	69.30	0.00
3	143	21.10	22000.0	2.070	0.00	3.150	69.30	0.00

3	144	21.10	22000.0	2.070	0.00	3.150	69.30	0.00
3	145	21.10	22000.0	2.070	0.00	3.160	69.52	0.00
3	146	21.10	22000.0	2.070	0.00	3.160	69.52	0.00
3	147	21.10	22000.0	2.070	0.00	3.170	69.74	0.00
3	148	21.10	22000.0	2.070	0.00	3.170	69.74	0.00
3	149	21.10	22000.0	2.070	0.00	3.170	69.74	0.00
3	150	21.10	22000.0	2.070	0.00	3.180	69.96	0.00
3	151	21.10	22000.0	2.070	0.00	3.180	69.96	0.00
3	152	21.10	22000.0	2.070	0.00	3.180	69.96	0.00
3	153	21.10	22000.0	2.070	0.00	3.190	70.18	0.00
3	154	21.10	22000.0	2.070	0.00	3.190	70.18	0.00
3	155	21.10	22000.0	2.070	0.00	3.190	70.18	0.00
3	156	21.10	22000.0	2.070	0.00	3.200	70.40	0.00
3	157	21.10	22000.0	2.070	0.00	3.200	70.40	0.00
3	158	21.10	22000.0	2.070	0.00	3.210	70.62	0.00
3	159	21.10	22000.0	2.070	0.00	3.210	70.62	0.00
3	160	21.10	22000.0	2.070	0.00	3.210	70.62	0.00
3	161	21.10	22000.0	2.070	0.00	3.220	70.84	0.00
3	162	21.10	22000.0	2.070	0.00	3.220	70.84	0.00
4	163	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	164	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	165	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	166	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	167	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	168	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	169	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	170	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	171	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	172	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	173	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	174	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	175	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	176	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	177	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	178	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	179	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	180	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	181	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	182	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	183	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
4	184	21.10	520800.0	2.070	0.00	2.100	1093.68	0.00
5	185	21.10	12200.0	2.070	0.00	1.820	22.20	0.00
5	186	21.10	12200.0	2.070	0.00	1.830	22.33	0.00
5	187	21.10	12200.0	2.070	0.00	1.840	22.45	0.00
5	188	21.10	12200.0	2.070	0.00	1.850	22.57	0.00
5	189	21.10	12200.0	2.070	0.00	1.860	22.69	0.00
5	190	21.10	12200.0	2.070	0.00	1.860	22.69	0.00
5	191	21.10	12200.0	2.070	0.00	1.870	22.81	0.00
5	192	21.10	12200.0	2.070	0.00	1.880	22.94	0.00
6	193	21.70	22000.0	2.070	0.00	0.000	0.00	0.00
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					Subsegment totals:		106076.02	0.00

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.
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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

Equations used: Flow rate from TMDL calcs = Permit flow rate * 1.250 (to incorporate MOS and FG)
(Load, kg/day) = (Flow rate, MGD) * (Conc., mg/L) * 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg

Assumptions: Ratio of CBODu to CBOD5 for point source dissharges = 2.3 (guidance from LTP).
For permits with BOD or ammonia limits, NO2+NO3 = 10 mg/L (drinking water criteria).
For permits with COD limits, assume that CBODu is about the same magnitude as COD and
that discharges of nitrogen (organic, ammonia, and NO2+NO3) are negligible.

NPDES permit number	Outfall number	Permit flow rate (MGD)	Factor to incorporate MOS and FG into flow	Flow rate for TMDL calcs (MGD	Comments
LAG541156	001	0.009	1.250	0.012	Nachitoches School Dist
LAG541299	001	0.012	1.250	0.015	Lakeview Jr & Sr High

User specified permit limits:

NPDES permit number	Outfall number	CBOD5 (mg/L)	COD (mg/L)	Ammonia (mg/L)	Comments
LAG541156	001	30.0	0.0	3.3	
LAG541299	001	30.0	0.0	3.3	

Values for TMDL calculations:

NPDES permit number	Outfall number	CBODu (mg/L)	Organic N (mg/L)	Ammonia N (mg/L)	NO2+NO3 N (mg/L)	Comments
LAG541156	001	69.00	6.60	3.30	0.00	
LAG541299	001	69.00	6.60	3.30	0.00	

Calculated loads:

NPDES permit number	Outfall number	CBODu (kg/day)	Organic N (kg/day)	AmmoniaN (kg.day)	NO2+NO3 N (kg.day)	Comments
LAG541156	001	3.04	0.29	0.15	0.00	
LAG541299	001	3.84	0.37	0.18	0.00	
Subsegment total		6.88	0.66	0.33	0.00	

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SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N

Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

Nitrogen loads (kg/day of N):

	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	-538.54	209.06	30.93	-2.58
Mass LOads (data type 19)	N/A	76870.00	4681.40	N/A	N/A
SOD and Benthic	106076.02	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

	Oygen demand loads: SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	Total Oxygen demand (kg/day)
NPS inflows	N/A	-538.54	905.21	133.93	500.60
Mass LOads (data type 19)	N/A	76870.00	20270.46	N/A	97140.46
SOD and Benthic	106076.02	N/A	N/A	0.00	106076.02
Total for all NPS loads	106076.02	76331.46	21175.67	133.93	203717.08
NPS future growth (10.0%)	10607.60	7633.15	2117.57	13.39	20371.71
NPS margin of safety (10.0%)	10607.60	7633.15	2117.57	13.39	20371.71
NPS load allocation (80.0%)	84860.83	61065.16	16940.53	107.15	162973.66

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SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of Safety = 10.0% * point source load
Future Growth = 10.0% * nonpoint source load
Wasteload Allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload Allocation (WLA) for minor point sources = 80.0% * calculated load

Values from calculations above

Nitrogen loads (kg/day of N):

	CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	NO3+NO2 (kg/day)
Calculated load for minor point source	6.88	0.66	0.33	0.00

Calculated loads of oxygen demand

	Oygen demand loads: CBODu	Organic N	Ammonia N	Total Oxygen demand

	(kg/day)	(kg/day)	(kg/day)	(kg/day)
Calculated load for minor point source	6.88	2.85	1.43	11.16
Total for all point source loads	6.88	2.85	1.43	11.16
MOS for all point Sources (10.0%)	0.69	0.29	0.14	1.12
FG for all point Sources (10.0%)	0.69	0.29	0.14	1.12
WLA for minor point sources (80.0%)	5.51	2.28	1.14	8.93

TMDL CALCULATIONS FOR SUBSEGMENT: 100803 Saline Bayou
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl803s.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl803s.out
Date/Time:Output produced at 14:39 on 10/18/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 10) is in subsegment 100803 Saline Bayou
Reach 2 (Elements 11 - 36) is in subsegment 100803 Saline Bayou
Reach 3 (Elements 37 - 90) is in subsegment 100803 Saline Bayou

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	0.19480	3.84	1.05	0.12	0.00	Black Lake Bayou
1	0.36040	2.13	1.15	0.18	0.05	NPS Saline Lake

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	64.63	17.67	2.02	0.00
1	66.33	35.81	5.60	1.56
Subsegment totals:	66.99	53.48	7.62	1.56

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	738.00	45.10
2	574.00	38.50
3	2440.00	107.00

Subsegment totals	3752.00	190.60

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	30.70	22000.0	7.680	0.00	7.680	168.96	0.00
1	2	30.70	22000.0	7.680	0.00	7.720	169.84	0.00
1	3	30.70	22000.0	7.680	0.00	7.760	170.72	0.00
1	4	30.70	22000.0	7.680	0.00	7.800	171.60	0.00
1	5	30.70	22000.0	7.680	0.00	7.840	172.48	0.00
1	6	30.70	22000.0	7.680	0.00	7.880	173.36	0.00
1	7	30.70	22000.0	7.680	0.00	7.920	174.24	0.00
1	8	30.70	22000.0	7.680	0.00	7.960	175.12	0.00
1	9	30.70	22000.0	7.680	0.00	8.000	176.00	0.00
1	10	30.70	22000.0	7.680	0.00	8.040	176.88	0.00
2	11	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	12	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	13	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	14	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	15	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	16	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	17	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	18	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	19	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	20	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	21	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	22	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	23	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	24	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	25	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	26	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	27	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	28	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	29	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	30	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	31	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	32	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	33	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	34	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	35	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
2	36	31.50	10112.0	7.720	0.00	7.610	76.95	0.00
3	37	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	38	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	39	31.50	12304.0	7.760	0.00	7.870	96.83	0.00

3	40	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	41	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	42	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	43	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	44	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	45	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	46	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	47	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	48	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	49	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	50	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	51	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	52	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	53	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	54	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	55	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	56	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	57	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	58	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	59	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	60	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	61	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	62	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	63	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	64	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	65	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	66	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	67	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	68	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	69	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	70	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	71	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	72	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	73	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	74	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	75	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	76	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	77	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	78	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	79	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	80	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	81	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	82	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	83	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	84	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	85	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	86	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	87	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	88	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	89	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
3	90	31.50	12304.0	7.760	0.00	7.870	96.83	0.00
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			Subsegment totals:			8958.91	0.00	

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.

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CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

For this subsegment, there are no point source discharges not explicitly modeled.

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SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

	SOD (kg/day)	CBODu (kg/day)	Nitrogen loads (kg/day of N): Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	66.99	53.48	7.62	1.56
Mass LOads (data type 19)	N/A	3752.00	190.60	N/A	N/A
SOD and Benthic	8958.91	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

	SOD (kg/day)	CBODu (kg/day)	Oygen demand loads: Organic (kg/day)	Ammonia (kg/day)	Total Oxygen demand (kg/day)
NPS inflows	N/A	66.99	231.57	32.99	331.56
Mass LOads (data type 19)	N/A	3752.00	825.30	N/A	4577.30
SOD and Benthic	8958.91	N/A	N/A	0.00	8958.91
Total for all NPS loads	8958.91	3818.99	1056.87	32.99	13867.77
NPS future growth (10.0%)	895.89	381.90	105.69	3.30	1386.78
NPS margin of safety (10.0%)	895.89	381.90	105.69	3.30	1386.78
NPS load allocation (80.0%)	7167.13	3055.19	845.49	26.39	11094.21

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SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

For this subsegment, there are no point source discharges either modeled or unmodeled in this subsegment.

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NUTRIENT TMDL CALCULATIONS:

Assumptions: Naturally occurring ratio of total N to total P = 1.00000

Equations used: Total N = (Organic N) + (Ammonia N) + (NO2+NO3 N)
Total P = (Total N) / (Naturally occurring ratio of total N to total P)
NPS margin of safety = 10.0% * nonpoint source load
NPS Future Growth = 10.0% * nonpoint source load
NPS load allocation = 80.0% * nonpoint source load
Margin of safety for all point sources = 10.0% * total point source load
Future Growth for all point soures = 10.0% * nonpoint source load
Wasteload allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload allocation (WLA) for minor point sources = 80.0% * calculated load

Nonpoint sources:

	Organic N (kg/day)	Ammonia N (kg/day)	NO2+NO3 N (kg/day)	Total N (kg/day)	Total P
Total for all NPS loads	244.08	7.62	1.56	253.26	253.26
NPS margin of safety (10.0%)	24.41	0.76	0.16	25.33	25.33
NPS Future Growth (10.0%)	24.41	0.76	0.16	25.33	25.33
NPS load allocation (80.0%)	195.26	6.86	1.40	227.93	227.93

Point sources:

	Organic N (kg/day)	Ammonia N (kg/day)	NO2+NO3 N (kg/day)	Total N (kg/day)	Total P
Calculated load for minor point source	0.00	0.00	0.00	0.00	0.00
Total for all point source loads	0.00	0.00	0.00	0.00	0.00
MOS for all point Sources (10.0%)	0.00	0.00	0.00	0.00	0.00
FG for all point Sources (10.0%)	0.00	0.00	0.00	0.00	0.00
WLA for minor point sources (80.0%)	0.00	0.00	0.00	0.00	0.00

TMDL CALCULATIONS FOR SUBSEGMENT: 100803 Saline Bayou
FTN ASSOCIATES, LTD.
Program:Pr20m6f

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdl803w.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:tmdl803w.out
Date/Time:Output produced at 11:58 on 10/19/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 10) is in subsegment 100803 Saline Bayou
Reach 2 (Elements 11 - 36) is in subsegment 100803 Saline Bayou
Reach 3 (Elements 37 - 90) is in subsegment 100803 Saline Bayou

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CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):

Equation used: (Load, kg/day) = (Inflow rate, m3/sec) * (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 * 86400 sec/day

Values from LA-QUAL output:

Reach or Element number	Inflow rate (m3/sec)	CBODu conc. (mg/L)	Organic N conc. (mg/L)	Ammonia N conc. (mg/L)	NO2+NO3 N conc. (mg/L)	Name of inflow
1	0.85650	9.14	1.61	0.26	0.00	Black Lake Bayou
1	1.61050	2.60	1.40	0.22	0.05	NPS Saline Lake

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
1	676.37	119.14	19.24	0.00
1	361.78	194.81	30.61	6.96
Subsegment totals:	365.40	313.95	49.85	6.96

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CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:

Values from LA-QUAL output:

Reach number	CBODu mass load (kg/day)	Organic N mass load (kg/day)
1	900.00	55.00
2	700.00	47.00
3	2975.00	130.00

Subsegment totals	4575.00	232.00	

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CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:

SOD temperature correction factor used in LA-QUAL model: 1.065 (default)

Equations used: SOD temp. corrected = (SOD at 20 C) * 1.065^(Water temp - 20 C)
SOD load = (SOD temp. corrected, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g
Benthic NH3-N load = (Benthic ammonia N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g

		Values from LA-QUAL output:				Calculated values:		
Reach number	Element number	Water temp. (deg C)	Surface area (m2)	SOD at 20 C (g/m2/day)	Benthic ammonia N (g/m2/day)	SOD temp. corrected (g/m2/day)	SOD load (kg/day)	Benthic NH3-N load (kg/day)
1	1	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	2	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	3	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	4	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	5	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	6	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	7	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	8	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	9	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
1	10	21.70	22000.0	5.290	0.00	5.290	116.38	0.00
2	11	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	12	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	13	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	14	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	15	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	16	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	17	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	18	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	19	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	20	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	21	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	22	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	23	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	24	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	25	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	26	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	27	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	28	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	29	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	30	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	31	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	32	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	33	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	34	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	35	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
2	36	21.70	10112.0	5.290	0.00	5.010	50.66	0.00
3	37	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	38	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	39	21.70	12304.0	5.290	0.00	5.180	63.73	0.00

3	40	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	41	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	42	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	43	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	44	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	45	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	46	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	47	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	48	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	49	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	50	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	51	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	52	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	53	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	54	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	55	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	56	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	57	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	58	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	59	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	60	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	61	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	62	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	63	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	64	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	65	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	66	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	67	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	68	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	69	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	70	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	71	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	72	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	73	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	74	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	75	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	76	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	77	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	78	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	79	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	80	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	81	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	82	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	83	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	84	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	85	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	86	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	87	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	88	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	89	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
3	90	21.70	12304.0	5.290	0.00	5.180	63.73	0.00
						--------	---------	
				Subsegment totals:		5922.67	0.00	

==========

CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

For this subsegment, there are no point source discharges explicitly modeled.

==========

CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:

For this subsegment, there are no point source discharges not explicitly modeled.

==========

SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:

Equations used: Organic N oxygen demand, kg/day = 4.3300 * Organic N load, kg/day of N
Ammonia N oxygen demand, kg/day = 4.3300 * Ammonia N load, kg/day of N
Margin of safety = 10.0% * nonpoint source load
Future Growth = 10.0% * nonpoint source load
Load Allocation = 80.0% * nonpoint source load

Values from calculations above

	Nitrogen loads (kg/day of N):				
	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	NO2+NO3 N (kg/day)
NPS inflows	N/A	365.40	313.95	49.85	6.96
Mass LOads (data type 19)	N/A	4575.00	232.00	N/A	N/A
SOD and Benthic	5922.67	N/A	N/A	0.00	N/A

Calculated loads of oxygen demand:

	Oygen demand loads:				Total Oxygen
	SOD (kg/day)	CBODu (kg/day)	Organic (kg/day)	Ammonia (kg/day)	demand (kg/day)
NPS inflows	N/A	365.40	1359.40	215.85	1940.65
Mass LOads (data type 19)	N/A	4575.00	1004.56	N/A	5579.56
SOD and Benthic	5922.67	N/A	N/A	0.00	5922.67
Total for all NPS loads	5922.67	4940.40	2363.96	215.85	13442.88
NPS future growth (10.0%)	592.27	494.04	236.40	21.59	1344.29
NPS margin of safety (10.0%)	592.27	494.04	236.40	21.59	1344.29
NPS load allocation (80.0%)	4738.13	3952.32	1891.16	172.67	10754.30

==========

SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT

For this subsegment, there are no point source discharges either modeled or unmodeled in this subsegment.

==========

NUTRIENT TMDL CALCULATIONS:

Assumptions: Naturally occurring ratio of total N to total P = 1.00000

Equations used: Total N = (Organic N) + (Ammonia N) + (NO2+NO3 N)
Total P = (Total N) / (Naturally occurring ratio of total N to total P)
NPS margin of safety = 10.0% * nonpoint source load
NPS Future Growth = 10.0% * nonpoint source load
NPS load allocation = 80.0% * nonpoint source load
Margin of safety for all point sources = 10.0% * total point source load
Future Growth for all point soures = 10.0% * nonpoint source load
Wasteload allocation (WLA) for modeled point source = 80.0% * modeled load
Wasteload allocation (WLA) for minor point sources = 80.0% * calculated load

Nonpoint sources:

	Organic N (kg/day)	Ammonia N (kg/day)	NO2+NO3 N (kg/day)	Total N (kg/day)	Total P (kg/day)
Total for all NPS loads	545.95	49.85	6.96	602.76	602.76
NPS margin of safety (10.0%)	54.59	4.98	0.70	60.28	60.28
NPS Future Growth (10.0%)	54.59	4.98	0.70	60.28	60.28
NPS load allocation (80.0%)	436.76	44.86	6.26	542.48	542.48

Point sources:

	Organic N (kg/day)	Ammonia N (kg/day)	NO2+NO3 N (kg/day)	Total N (kg/day)	Total P (kg/day)
Calculated load for minor point source	0.00	0.00	0.00	0.00	0.00
Total for all point source loads	0.00	0.00	0.00	0.00	0.00
MOS for all point Sources (10.0%)	0.00	0.00	0.00	0.00	0.00
FG for all point Sources (10.0%)	0.00	0.00	0.00	0.00	0.00
WLA for minor point sources (80.0%)	0.00	0.00	0.00	0.00	0.00

```
100702                  Subsegment number for this TMDL
"Black Lk Bayou"        Subsegment name (max 50 chars)
"tmdl702s.out"           Name of LA-QUAL output file
4                       Total number of reaches in the model
100702                  Subsegment that reach 1 is in
100702                  Subsegment that reach 2 is in
100702                  Subsegment that reach 3 is in
100703                  Subsegment that reach 4 is in
10                      point source margin of safety (%)
10                      point source Future Gorwth (%)
10                      NPS margin of safety (%)
10                      NPS Future Growth (%)
4.33                    Ratio of oxygen demand to nitrogen
10                      Number of minor point sources
                        MINOR POINT SOURCE DISCHARGE #1:
"LA0049484"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.185                      Flow (MGD)
"North Pond STP"           Comment for flow (max 40 chars)
10                         CBOD5 or BOD5 permit limit
0                          COD permit limit
1.7                        Ammonia N (assumed 5 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #2:
"LA0053261"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.122                      Flow (MGD)
"Gibsland MWTP"            Comment for flow (max 40 chars)
10                         CBOD5 or BOD5 permit limit
0                          COD permit limit
1.7                        Ammonia N (assumed 5 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #3:
"LA0080446"                NPDES permit number (9 chars)
"002"                      Outfall number (3 chars)
0.097                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #4:
"LA0080446"                NPDES permit number (9 chars)
"003"                      Outfall number (3 chars)
0.008                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
45                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #5:
"LA0080446"                NPDES permit number (9 chars)
"005"                      Outfall number (3 chars)
0.270                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
250                        COD permit limit
```

```
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                       MINOR POINT SOURCE DISCHARGE #6:
"LAG480478"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.0000125                  Flow (MGD)
"Tesco Services Inc."      Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #7:
"LAG490016"                NPDES permit number (9 chars)
"004"                      Outfall number (3 chars)
0.0000125                  Flow (MGD)
"Tesco Services Inc."      Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #8:
"LAG540420"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.015                      Flow (MGD)
"Ada Rest Area East"       Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #9:
"LAG540421"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.015                      Flow (MGD)
"Ada Rest Area West"       Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #10:
"LAG560094"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.05                       Flow (MGD)
"Athens WWTP"              Comment for flow (max 40 chars)
20                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
No                     Nutrient TMDL needed?
1.0                    Natural ratio of total N to total P
```

100803	Subsegment number for this TMDL
"Saline Bayou"	Subsegment name (max 50 chars)
"tmdl803s.out"	Name of LA-QUAL output file
3	Total number of reaches in the model
100803	Subsegment that reach 1 is in
100803	Subsegment that reach 2 is in
100803	Subsegment that reach 3 is in
10	point source margin of safety (%)
10	point source Future Gorwth (%)
10	NPS margin of safety (%)
10	NPS Future Growth (%)
4.33	Ratio of oxygen demand to nitrogen
0	Number of minor point sources
No	Nutrient TMDL needed?
1.0	Natural ratio of total N to total P

```
100703                  Subsegment number for this TMDL
"Black & Clear Lks"     Subsegment name (max 50 chars)
"tmdl703w.out"           Name of LA-QUAL output file
6                       Total number of reaches in the model
100703                  Subsegment that reach 1 is in
100703                  Subsegment that reach 2 is in
100703                  Subsegment that reach 3 is in
100703                  Subsegment that reach 4 is in
100703                  Subsegment that reach 5 is in
100803                  Subsegment that reach 6 is in
10                      point source margin of safety (%)
10                      point source Future Gorwth (%)
10                      NPS margin of safety (%)
10                      NPS Future Growth (%)
4.33                    Ratio of oxygen demand to nitrogen
2                       Number of minor point sources
                        MINOR POINT SOURCE DISCHARGE #1:
"LAG541156"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.00932                    Flow (MGD)
"Nachitoches School Dist" Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #2:
"LAG541299"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.01176                    Flow (MGD)
"Lakeview Jr & Sr High"   Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
No                      Nutrient TMDL needed?
1.0                     Natural ratio of total N to total P
```

```
100703                  Subsegment number for this TMDL
"Black & Clear Lks"     Subsegment name (max 50 chars)
"tmdl703s.out"           Name of LA-QUAL output file
6                       Total number of reaches in the model
100703                  Subsegment that reach 1 is in
100703                  Subsegment that reach 2 is in
100703                  Subsegment that reach 3 is in
100703                  Subsegment that reach 4 is in
100703                  Subsegment that reach 5 is in
100803                  Subsegment that reach 6 is in
10                      point source margin of safety (%)
10                      point source Future Gorwth (%)
10                      NPS margin of safety (%)
10                      NPS Future Growth (%)
4.33                    Ratio of oxygen demand to nitrogen
2                       Number of minor point sources
                        MINOR POINT SOURCE DISCHARGE #1:
"LAG541156"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.00932                    Flow (MGD)
"Nachitoches School Dist" Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #2:
"LAG541299"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.01176                    Flow (MGD)
"Lakeview Jr & Sr High"   Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
No                      Nutrient TMDL needed?
1.0                     Natural ratio of total N to total P
```

```
100702                  Subsegment number for this TMDL
"Black Lk Bayou"        Subsegment name (max 50 chars)
"tmdl702w.out"           Name of LA-QUAL output file
4                       Total number of reaches in the model
100702                  Subsegment that reach 1 is in
100702                  Subsegment that reach 2 is in
100702                  Subsegment that reach 3 is in
100703                  Subsegment that reach 3 is in
10                      point source margin of safety (%)
10                      point source Future Gorwth (%)
10                      NPS margin of safety (%)
10                      NPS Future Growth (%)
4.33                    Ratio of oxygen demand to nitrogen
10                      Number of minor point sources
                        MINOR POINT SOURCE DISCHARGE #1:
"LA0049484"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.185                      Flow (MGD)
"North Pond STP"           Comment for flow (max 40 chars)
10                         CBOD5 or BOD5 permit limit
0                          COD permit limit
1.7                        Ammonia N (assumed 5 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #2:
"LA0053261"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.122                      Flow (MGD)
"Gibsland MWTP"            Comment for flow (max 40 chars)
10                         CBOD5 or BOD5 permit limit
0                          COD permit limit
1.7                        Ammonia N (assumed 5 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #3:
"LA0080446"                NPDES permit number (9 chars)
"002"                      Outfall number (3 chars)
0.097                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #4:
"LA0080446"                NPDES permit number (9 chars)
"003"                      Outfall number (3 chars)
0.008                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
45                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #5:
"LA0080446"                NPDES permit number (9 chars)
"005"                      Outfall number (3 chars)
0.270                      Flow (MGD)
"Taylor Sawmill Weyco"     Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
250                        COD permit limit
```

```
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                       MINOR POINT SOURCE DISCHARGE #6:
"LAG480478"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.0000125                  Flow (MGD)
"Tesco Services Inc."      Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #7:
"LAG490016"                NPDES permit number (9 chars)
"004"                      Outfall number (3 chars)
0.0000125                  Flow (MGD)
"Tesco Services Inc."      Comment for flow (max 40 chars)
0                          CBOD5 or BOD5 permit limit
200                        COD permit limit
0                          Ammonia N permit limit
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #8:
"LAG540420"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.015                      Flow (MGD)
"Ada Rest Area East"       Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #9:
"LAG540421"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.015                      Flow (MGD)
"Ada Rest Area West"       Comment for flow (max 40 chars)
30                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
                     MINOR POINT SOURCE DISCHARGE #10:
"LAG560094"                NPDES permit number (9 chars)
"001"                      Outfall number (3 chars)
0.05                       Flow (MGD)
"Athens WWTP"              Comment for flow (max 40 chars)
20                         CBOD5 or BOD5 permit limit
0                          COD permit limit
3.3                        Ammonia N (assumed 10 mg/L NBOD with 1/3 NH3-N)
""                         Comment for conc. limits (max 40 chars)
No                     Nutrient TMDL needed?
1.0                    Natural ratio of total N to total P
```

100803	Subsegment number for this TMDL
"Saline Bayou"	Subsegment name (max 50 chars)
"tmdl803w.out"	Name of LA-QUAL output file
3	Total number of reaches in the model
100803	Subsegment that reach 1 is in
100803	Subsegment that reach 2 is in
100803	Subsegment that reach 3 is in
10	point source margin of safety (%)
10	point source Future Gorwth (%)
10	NPS margin of safety (%)
10	NPS Future Growth (%)
4.33	Ratio of oxygen demand to nitrogen
0	Number of minor point sources
No	Nutrient TMDL needed?
1.0	Natural ratio of total N to total P

APPENDIX P

Source Code for TMDL Calculation Program

```
        program pr20m6f
C**** For this prograqm to work the echo of the input and final report must be turned on:
C     1) The echo of the input provides MAJORITY of the ionformation for the calcuations,
C     2) The Hydralic, SOD, and NH3Sr data (needed for surface area for the SOD) are found
C        in the final report reach summary.

C     Printing:
C     This is printed in MSWord or VSlick by setting the left and right margins to 0.3 and 0.38
C     and setting the font to Courier New 9 pt normal text.

C     This program is specifcally formated for LA-QUAL 8.11.


C***********************************Search program (part 1)****************************************
C This whole program is written by Richard R. Bennett on 9/20/07 for LA-QUAL version 8.0
C Every variable is used in this program except

       INTEGER imp,i,a,c,d,e,f,g,h,j,k,l,m,n,o,q,k1
       Character*132 line,stream_id
       Character*8 target
       character*21 target2
       character*15 target3
       character*16 target3b,target5b,target5c,target6,t
     &arget7,target8,target9,target10
       character*36 target4


C**********All arrays are entered in the order in which they occurr in the program
C**************Input REAL arrays

      integer total_elem
      integer incr_reach(1:999)
       REAL SOD_temp_cor(1:999),C2_NH3SR(1:999),
     &incr2_CBODu_con(1:999),incr2_Org_N_con(1:999), incr2_Amm_N_con(1:
     &999),incr2_Nitrate_con(1:999), NP_BOD(1:999),NP_ORG(1:999),
     & HDWT1_Flow(1:999),incr_flow(1:999)
       INTEGER HDWT1_elem(1:999)
       REAL WSTLD_Flow(1:999),Elem_end(1:999),Elem_begin(1:999)
       character NPS_wstld_name(1:999)*25,PS_Wstld_name(1:999)*20
       REAL WSTLD2_BOD(1:999),WSTLD2_ORG(1:999),WSTLD2
     &_NH3(1:999), WSTLD2_NO3(1:999)
       REAL nps_WSTLD_Flow(1:999),nps_elem_wstld(1:999)
       REAL NPS_WSTLD2_BOD(1:999),NPS_WSTLD2_ORG(1:999),NPS_WSTLD2
     &_NH3(1:999),NPS_WSTLD2_NO3(1:999)
       REAL PS_WSTLD_Flow(1:999),ps_elem_wstld(1:999)
       REAL ps_WSTLD2_BOD(1:999),ps_WSTLD2_ORG(1:999),ps_WSTLD2
     &_NH3(1:999),ps_WSTLD2_NO3(1:999)
       Integer NP_reach(1:999),elem_wstld(1:999),num,num_pt_sour
       real ps_mos,ps_mos_per,nps_mos,nps_mos_per
       real ps_FG,ps_FG_per,nps_FG,nps_FG_per
       Real Temp(1:999),S_area_int(1:1000)
       integer elem_col_int
       character source_type(1:999)*3,reach_name(1:999)*15,wstld_name(1:
     &100)*20, hdwt1_name(1:999)*25,reach_subseg_num(1:999)*20,
     &permit_number(1:999)*20,outfall_num(1:999)*20,comment(1:999)*40,
     &comment_con(1:999)*40,nut_tmdl_need*4
       Real perm_flow(1:999),CBOD5_Perm(1:999), cod_perm(1:999),ammon_pe
     &rm(1:999),nat_rat,ammoxy_rat
       real HDWT2_BOD_con(1:999),HDWT2_ORG_con(1:999), HDWT2_NH3_con(1:1
     &00), HDWT2_NO3_con(1:999)
       real incr_outflow(1:999),incr_inflow(1:999)

C****************Character Search Strings
      target = 'CNTROL04'
      target2= 'THETA        BENTHAL'
      target3= '$$$ DATA TYPE 8'  ! Reach ID data
      target3b='$$$ DATA TYPE 11' ! Reach Initial conditions (need temps)
      target4= 'BIOLOGICAL AND PHYSICAL COEFFICIENTS' ! SOD and NH3Sr rates (Final Report)
      target5b= '$$$ DATA TYPE 16'  ! Incrmental flows
      target5c= '$$$ DATA TYPE 17'  ! Incrmental WQ
      target6= '$$$ DATA TYPE 19'   ! Mass laods
      target7= '$$$ DATA TYPE 20'   ! Headwater flows
      Target8= '$$$ DATA TYPE 21'   ! Headwater WQ
      Target9= '$$$ DATA TYPE 24'   ! Wasteload flows
```

```
      target10= '$$$ DATA TYPE 25'  ! Wastelaod WQ

C****************Array counterrs
      num=0
      num_incr=0
      num_hdwt=0
      num_wstld=0
      nps_num_wstld=0
      ps_num_wstld=0
      a=0
      cir=0
      c=0
      d=0
      e=0
      f=0
      g=0
      h=0
      j=0
      k=0
      k1=0
      l=0
      m=0
      nps=1
      ps=1
      n=0
      o=0
      q=0


      Character*70 userFilename,Laqualfilename,subsegname,subsegnumber,
     &pertime,LAQUAL_version,laqualfileoutput

      print*,'Enter user input filename: ' ! this is the TMDL program input file
      read*,userfilename                   ! it is NOT hte LA-QUAL file!!!!

      imp=1000000


C*Read input file
      OPEN(UNIT=12, FILE=userfilename, STATUS='OLD') ! input file
      Open (unit=11, FILE='tmdl-res.txt', Status='UNKNOWN')  ! output file
c      OPEN (UNIT=13, FILE='inter-res.txt', Status='UNKNOWN') ! debugging file
      REad(12,*)subsegnumber  ! subsegment number
      REad(12,*)subsegname    ! subsegment name
      read(12,*)laqualfileoutput ! LA-QUAL output file
      read(12,*)usernum          ! number of reaches in output file
      do 10 I=1,usernum          ! read subsegment number for each reach loop
10       read(12,*)reach_subseg_num(I)
      read(12,*)ps_mos_per  ! point source MOS in percent
      read(12,*)ps_FG_per   ! point source FG in percent
      read(12,*)nps_mos_per  ! nonpoint source MOS in percent
      read(12,*)nps_FG_per   ! nonpoint source FG in percent
      READ(12,*)ammoxy_rat   ! ammonia oxidation rate
      read(12,*)num_pt_sour  ! number of point sources in input file
      do 20 I=1,num_pt_sour  ! read point source data loop
         read(12,*)
         read(12,*)permit_number(I) ! permit number
         read(12,*)outfall_num(I)   ! outfall number
         read(12,*)perm_flow(I)     ! permit flow (MGD)
         read(12,*)comment(I)       ! comment (usually facility name)
         read(12,*)cbod5_perm(I)    ! CBOD5 or BOD5 permit conc in mg/L
         read(12,*)COD_perm(I)      ! COD permit conc in mg/L
         read(12,*)ammon_perm(I)    ! ammonia permit conc in mg/L
         read(12,*)comment_con(I)   ! comment for concentration
20    continue
      read(12,*)nut_tmdl_need       ! is a nutrietn TMDL needed?
      read(12,*) nat_rat            ! ratio of natural nitrogen to phosphorus

      ps_mos=ps_mos_per/100.000
      ps_FG=ps_FG_per/100.000
      nps_mos=nps_mos_per/100.000
      nps_FG=nps_FG_per/100.000

      laqualfilename=laqualfileoutput
```

```
      OPEN(UNIT=10, FILE=Laqualfilename, STATUS='OLD') ! this is teh LA-QUAL output file

1030  FORMAT(A35,3X,A25)
      DO 100 i=1,imp
      READ(10,'(A132)') line

C**********Are we at the end of the file?
      if(line(11:29).EQ.'EXECUTION COMPLETED')GO TO 900


C************ read LA-QUAL version
      if (i .EQ. 1) then
          read (line(1:32),'(A32)') LAQUAL_version
      end if

C**********when was the LA-QUAL file made and metric units
      if (line (1:6) .EQ. 'Output') then
         read(line(1:38),'(A38)') pertime
      else IF (line(1:8).EQ. target) then
1020     FORMAT (A35,3X,A10,3X,A10)

C**********Look for theta Benthal
         else IF (line(1:21).EQ. target2) then
1040        Format (A36,5X,A40)

C**********Data T8,Count number of reaches
         else IF (line (1:15) .EQ. target3) then
            Read (10,*)
            Read (10,*)
            Read (10,*)
            Read (10,*)
105         Read (10, '(A132)') stream_id
            if (stream_id(1:8).EQ. 'REACH ID')then
              num=num+1
              read(stream_ID(23:48),'(A15)')reach_name(num)
              read(stream_ID(109:111),)elem_begin(num)
              read(stream_ID(116:118),)elem_end(num)
              total_elem=elem_end(num)
              go to 105
            end if

C**********Data T11, read temp
      else IF (line (1:16).EQ. target3b) then
            READ (10,*)
            READ (10,*)
            READ (10,*)
107         READ (10,'(A132)') stream_id
            if (stream_id(1:7) .EQ. 'INITIAL') then
               q=q+1
               READ(stream_id(32:36),'(F5.0)') temp(q)
               go to 107
               end if

C**********FINAL REPORT,(read COEF-1 Bckgrd SOD and NH3SR)
      else IF (line (49:84) .EQ. target4) then
            Read (10,*)
            Read (10,*)
            Read (10,*)
            Read (10,*)
            Read (10,*)
110         Read (10, '(A132)') stream_id
            if (stream_id(1:7).NE. ' ') then
               a=a+1
               READ(Stream_id(1:4),'(I4)')elem
               READ(stream_id(68:73),'(F7.0)') SOD_temp_cor(elem)
               READ(Stream_id(106:111),'(F6.0)') C2_NH3SR(elem)
c               elem is used to put them in numerical order, NOT
c               in the order they are read from the LA_QUAL file!
c               (this only comes into play for branched models)
1060        FORMAT (A35,5X,A10,5X,A10)
            GO TO 110
            end if

C***********Data Type (incremenatal flow data part1)
```

```
       else if (line(1:16) .EQ. target5b) then
            read(10,*)
            read(10,*)
            read(10,*)
117         read(10,'(A132)')stream_id
            if (stream_id(1:6) .EQ. 'INCR-1') then
                num_incr=num_incr+1
                read(stream_id(17:19),'(I3)') incr_reach(num_incr)
                read(stream_id(32:38),'(F7.0)') incr_outflow(num_incr)
                read(stream_id(44:50),'(F7.0)') incr_inflow(num_incr)
                incr_flow(num_incr) = abs(incr_inflow(num_incr))-abs(inc
     &r_outflow(num_incr))
            go to 117
            end if

C**********Data Tyoe (incremental flow part 2)
       else if (line(1:16) .EQ. target5c) then
            num_incr=0
            read(10,*)
            read(10,*)
            read(10,*)
118          read(10,'(A132)')stream_id
            if (stream_id(1:6) .EQ. 'INCR-2') then
            num_incr=num_incr+1
            read(stream_id(37:46),'(F10.0)') incr2_CBODu_con(num_incr)
            read(stream_id(47:56),'(F10.0)') incr2_Org_N_con(num_incr)
            read(stream_id(57:66),'(F10.0)') incr2_Amm_N_con(num_incr)
            read(stream_id(67:76),'(F10.0)') incr2_Nitrate_con(num_incr)
            go to 118
            end if

C***********Data T19(reads BOD and ORG-N)
       else IF (line (1:16) .EQ. target6) then
            Read (10,*)
            Read (10,*)
            READ (10,*)
120         Read (10, '(A132)') stream_id
            if (stream_id(1:8).EQ. 'NONPOINT') then
               c=c+1
               d=d+1
               read(stream_ID(17:19),'(I3)')NP_reach(c)
               READ(stream_id(28:36),'(F9.0)')NP_BOD(c)
               READ(stream_id(38:46),'(F9.0)')NP_ORG(d)
1080        Format (A35,5X,A10,2X,A10,2X,A10)
            GO TO 120
            end if

C**********DATA T20(reads flow for HDWTR-1)
         else IF (line (1:16) .EQ. target7) then
            Read (10,*)
            READ (10,*)
            Read (10,*)
            REad (10,*)
125         Read (10, '(A132)') stream_id
            if (stream_id(1:7).EQ. 'HDWTR-1') then
               num_hdwt=num_HDwt+1
               e=e+1
               Read(stream_id(17:19),'(I3)')HDWT1_elem(e)
               read(stream_id(25:44),'(A20)')hdwt1_name(e)
               READ(stream_id(53:59),'(F7.0)') HDWT1_Flow(e)
               GO TO 125
            end if

C**********DATA T21(read BOD,ORG-N,NH3,NO3+2 for HDWTR-2)
         else IF (line (1:16) .EQ. target8) then
            Read (10,*)
            Read (10,*)
            READ (10,*)
            Read (10,*)
130         Read (10, '(A132)') stream_id
            if (stream_id(1:7).EQ. 'HDWTR-2') then
            f=f+1
            g=g+1
            h=h+1
```

```
            j=j+1
            READ(stream_id(58:66),'(F9.0)') HDWT2_BOD_con(f)
            READ(stream_id(68:76),'(F9.0)') HDWT2_ORG_con(g)
            READ(stream_id(78:86),'(F9.0)') HDWT2_NH3_con(h)
            READ(stream_id(88:96),'(F9.0)') HDWT2_NO3_con(j)
1090        Format (A35,5X,A5,5X,A5,5X,A5,5X,A5)
            GO TO 130
            end if

C**********DATA T24(flow for WSTLD-1)
          ps=1
          nps=1
          else IF (line (1:16) .EQ. target9) then
            Read (10,*)
            Read (10,*)
            Read (10,*)
            READ (10,*)
135         Read (10, '(A132)') stream_id
            if (stream_id(1:7).EQ. 'WSTLD-1') then
               num_wstld=num_wstld+1
               k=k+1
               READ(stream_id(52:59),'(F8.0)')WSTLD_Flow(k)
               read(stream_id(13:16),'(I4)')elem_wstld(k)
               read(stream_id(30:47),'(A18)')wstld_name(k)
               if (stream_id(30:32).EQ.'NPS') then !
                  nps_num_wstld=nps_num_wstld+1
                  NPS_wstld_name(nps) = wstld_name(K)
                  NPS_elem_wstld(nps) = elem_wstld(K)
                  NPS_wstld_flow(nps) = wstld_flow(K)
                  nps=nps+1
               else
                     ps_num_wstld=ps_num_wstld+1
                     PS_wstld_name(ps) = wstld_name(K)
                     PS_elem_wstld(ps) = elem_wstld(K)
                     PS_wstld_flow(ps) = wstld_flow(K)
                     ps=ps+1
c                    this loop and if statement is used to separate
c                    point and nonpoint wastelaods
               end if
            GO TO 135
            end if

C**********DATA T25(BOD,ORG-N,NH3,NO3+2) for WSTLD-2
      ps=1
      nps=1
         else IF (line (1:16) .EQ. target10) then
            Read (10,*)
            Read (10,*)
            READ (10,*)
            READ (10,*)
140         Read (10, '(A132)') stream_id
            if (stream_id(1:7).EQ. 'WSTLD-2') then
            l=l+1
            m=m+1
            n=n+1
            o=o+1
            k1=k1+1
            READ(stream_id(25:27),'(A3)')source_type(k1)
            READ(stream_id(57:66),'(F10.0)')WSTLD2_BOD(l)
            READ(stream_id(77:86),'(F10.0)')WSTLD2_ORG(m)
            READ(stream_id(87:96),'(F10.0)')WSTLD2_NH3(n)
            READ(stream_id(107:116),'(F10.0)')WSTLD2_NO3(o)
            if (source_type(K1).EQ.'NPS') then
                  nps_wstld2_bod(nps) = wstld2_bod(l)
                  nps_wstld2_org(nps) = wstld2_org(m)
                  nps_wstld2_nh3(nps) = WSTLD2_NH3(N)
                  nps_wstld2_no3(nps) = wstld2_no3(o)
                  nps=nps+1
               else
                  ps_wstld2_bod(ps) = wstld2_bod(l)
                  ps_wstld2_org(ps) = wstld2_org(m)
                  ps_wstld2_nh3(ps) = WSTLD2_NH3(N)
                  ps_wstld2_no3(ps) = wstld2_no3(o)
                  ps=ps+1
```

```
                 end if
c must have blank space after else or the else will only apply to the first statement and NOT
c to all of them

1095        Format (A35,6X,A5,2X,A5,2X,A5,2X,A5,2X,A5)
            GO TO 140
            end if

C*************FINAL REPORT, hydrualic parameter
        else IF (line (1:62) .EQ. ' ************************************
     &*************** HYDRAULIC') then
             Read (10,*)
             READ (10,*)
             READ (10,*)
             READ (10,*)
             READ (10,*)
145          Read (10, '(A132)') stream_id
             if (stream_id(3:5).NE. '   ') then
c               p=p+1
C* these numbers are NOT in numerical order, they are in Branch (ie model layout) order
               read(stream_id(3:5),'(I3)')elem_col_int
               READ(stream_id(84:94),'(F11.0)')S_Area_int(elem_col_int)
               GO TO 145
            end if
1200  FORMAT (A35,5X,I4)
      END IF
100   Continue
900   CONTINUE
      Print*,'Program has finished reading the inputs!!!'


C****************************PART 2************************************
C************************Calculations

C*variables mostly in order of use
      real con3,con4,nps_FG_summary_org
      real mldt19_tot_cbodu, mldt19_tot_org
      real incr_CBODu(1:999), incr_Org_N(1:999), incr_Amm_N(1:999),
     &incr_NItrate(1:999)
      real incr_CBODu_tot, incr_Org_N_tot, incr_Amm_N_tot,incr_NItrate_t
     &ot
      real WSTLD2_BOD_con(1:999),WSTLD2_ORG_con(1:999),WSTLD2_NH3_con
     &(1:999),WSTLD2_NO3_con(1:999)
      real WSTLD2_BOD_cal(1:999),WSTLD2_Org_cal(1:999),WSTLD2_NH3_cal
     &(1:999),WSTLD2_NO3_cal(1:999)
      real WSTLD2_BOD_cal_tot,WSTLD2_Org_cal_tot,WSTLD2_NH3_cal_tot,
     &WSTLD2_NO3_cal_tot
      real ps_WSTLD2_BOD_con(1:999),ps_WSTLD2_ORG_con(1:999),ps_WSTLD2_N
     &H3_con(1:999),ps_WSTLD2_NO3_con(1:999)
      real ps_WSTLD2_BOD_cal(1:999),ps_WSTLD2_Org_cal(1:999),ps_WSTLD2_N
     &H3_cal(1:999),ps_WSTLD2_NO3_cal(1:999)
      real ps_WSTLD2_BOD_cal_tot, ps_WSTLD2_Org_cal_tot, ps_WSTLD2_NH3_c
     &al_tot,ps_WSTLD2_NO3_cal_tot
      real nps_WSTLD2_BOD_con(1:999),nps_WSTLD2_ORG_con(1:999),nps_WSTLD
     &2_NH3_con(1:999),nps_WSTLD2_NO3_con(1:999)
      real nps_WSTLD2_BOD_cal(1:999),nps_WSTLD2_Org_cal(1:999),nps_WSTLD
     &2_NH3_cal(1:999),nps_WSTLD2_NO3_cal(1:999)
      real nps_WSTLD2_BOD_cal_tot,nps_WSTLD2_Org_cal_tot, nps_WSTLD2_NH3
     &_cal_tot,nps_WSTLD2_NO3_cal_tot
      real nps_BOD_tot,nps_Org_N_tot,nps_NH3_N_tot,nps_NO3_tot
      real HDWT_BOD_cal(1:999), HDWT_Org_cal(1:999), HDWT_NH3_cal(1:999)
     &, HDWT_NO3_cal(1:999)
      real HDWT_BOD_cal_tot, HDWT_Org_cal_tot, HDWT_NH3_cal_tot,
     &HDWT_NO3_cal_tot
      real elem_benthis(1:1000), elem_sod(1:1000), elem_temp(1:1000)
     &,sod_load(1:1000), benthic(1:1000)
      real nps_sod_load_tot, nps_benthic_tot,fac_mos_FG
      reaL tmdl_cal_flow(1:999)
      real cbodu_tmdl_val(1:999), org_N_tmdl_val(1:999),ammon_tmdl_val(1
     &:100),no3_tmdl_val(1:999)
      real  cbodu_tmdl_cal(1:999),org_N_tmdl_cal(1:999), ammon_tmdl_cal(
     &1:100), no3_tmdl_cal(1:999)
      real  cbodu_tmdl_tot,org_N_tmdl_tot,ammon_tmdl_tot,no3_tmdl_tot
      real nps_summary_cbodu,nps_summary_org,nps_summary_ammon
```

```
 real oxy_dem_nps_org_N_tot, oxy_dem_nps_nh3_tot
 real nps_mos_sod_load_tot,nps_mos_summary_cbodu,nps_mos_summary_or
&g,nps_mos_summary_ammon,nps_mos_nps_NO3_tot
 real nps_FG_sod_load_tot,nps_FG_summary_cbodu
&,nps_FG_summary_ammon,nps_FG_nps_NO3_tot
 real nps_LA_sod_load_tot,nps_LA_summary_cbodu,nps_LA_summary_org,n
&ps_LA_summary_ammon,nps_LA_nps_NO3_tot
 real ps_summary_cbodu,ps_summary_org,ps_summary_nh3_n
 real mos_ps_summary_cbodu,mos_ps_summary_org,mos_ps_summary_nh3_n
 real FG_ps_summary_cbodu,FG_ps_summary_org,FG_ps_summary_nh3_n
 real wla_ps_cbodu_tmdl_tot,wla_ps_org_N_tmdl_tot, wla_ps_ammon_tmd
&l_tot
 real wla_ps_WSTLD2_BOD_cal(1:999),wla_ps_WSTLD2_ORG_cal(1:999),wla
&_ps_WSTLD2_NH3_cal(1:999)
 real oxy_dem_mldt19_tot_org,nps_inflows_tot_oxy_demand,
&mldt19_tot_oxy_dem,tot_oxy_dem_sod_ben
 real oxy_dem_ps_WSTLD2_Bod_cal(1:999),oxy_dem_ps_WSTLD2_ORG_cal(1:
&100),oxy_dem_ps_WSTLD2_Nh3_cal(1:999),tot_oxy_dem_nps,
&wla_min_ps_summary_tot
 real oxy_dem_ps_WSTLD2_Org_cal_tot,oxy_dem_ps_WSTLD2_NH3_cal_tot
 real nps_mos_tot_oxy_dem,nps_FG_tot_oxy_dem,nps_LA_tot_oxy_dem
 real oxy_dem_org_N_tmdl,oxy_dem_ammon_tmdl,min_ps_summary_tot,
&mod_tot_oxy_dem_ps(1:999),mos_tot_oxy_dem_summary,wla_mod_tot_oxy_
&dem_ps(1:999)
 real nut_tmdl_nps_org_N_tot,nps_tot_nitrogen_load,nps_total_P
 real ps_nut_tmdl_summary_org_N_tot,ps_nut_tmdl_summary_nh3_N_tot,
&ps_nut_tmdl_summary_no3_N_tot,ps_tot_nitrogen_final_load,ps_tot_P_
&final,ps_tot_sum_total_nitrogen_load,ps_tot_sum_total_P
 real mos_ps_nut_tmdl_sum_org_N_tot,
&mos_ps_nut_tmdl_sum_nh3_N_tot,
&mos_ps_nut_tmdl_sum_no3_N_tot,
&mos_ps_tot_nitrogen_final_load,
&mos_ps_tot_P_final
 real FG_ps_nut_tmdl_sum_org_N_tot,
&FG_ps_nut_tmdl_sum_nh3_N_tot,
&FG_ps_nut_tmdl_sum_no3_N_tot,
&FG_ps_tot_nitrogen_final_load,
&FG_ps_tot_P_final
 real wla_min_ps_nut_tmdl_sum_org,
&wla_min_ps_nut_tmdl_sum_nh3,
&wla_min_ps_nut_tmdl_sum_no3,
&wla_min_ps_nitrogen_final_load,
&wla_min_ps_P_final
 real wla_ps_WSTLD2_org_cal_sum(1:999),wla_ps_WSTLD2_NH3_cal_sum(1:
&100),wla_ps_WSTLD2_NO3_cal_sum(1:999)
 real wla_ps_total_nitrogen_load(1:999), wla_ps_total_P(1:999)
 real nps_mos_nut_tmdl_nps_Org_N_tot,nps_mos_nps_nh3_n_tot,
&nps_mos_tot_nitrogen_load,nps_mos_total_p
 real nps_FG_nut_tmdl_nps_Org_N_tot,nps_FG_nps_nh3_n_tot,
&nps_FG_tot_nitrogen_load,nps_FG_total_p
 real nps_la_nut_tmdl_nps_Org_N_tot,nps_la_nps_nh3_n_tot,
&nps_la_tot_nitrogen_load,nps_la_total_p
 real min_ps_total_nitrogen_load,min_ps_total_P
 real ps_total_nitrogen_load(1:999),ps_total_P(1:999)

 if (usernum.NE.num) then
   print*,'Usernum does not equal num, there has been a read failur
&e!',num,usernum
   Write(11,*)'This output is NOT correct!'
   end if

 mldt19_tot_cbodu=0
 mldt19_tot_org=0

 incr_CBODu_tot=0
 incr_Org_N_tot=0
 incr_Amm_N_tot=0
 incr_Nitrate_tot=0

 ps_WSTLD2_BOD_cal_tot=0
 ps_WSTLD2_Org_cal_tot=0
 ps_WSTLD2_NH3_cal_tot=0

 nps_WSTLD2_BOD_cal_tot=0
```

```
      nps_WSTLD2_Org_cal_tot=0
      nps_WSTLD2_NH3_cal_tot=0

      WSTLD2_BOD_cal_tot=0
      WSTLD2_Org_cal_tot=0
      WSTLD2_NH3_cal_tot=0

      HDWT_BOD_cal_tot=0
      HDWT_Org_cal_tot=0
      HDWT_NH3_cal_tot=0
      HDWT_NO3_cal_tot=0

      nps_sod_load_tot=0
      nps_benthic_tot=0

      cbodu_tmdl_tot=0
      org_N_tmdl_tot=0
      ammon_tmdl_tot=0
      no3_tmdl_tot=0

      fac_mos_FG=1/(1-(ps_mos+ps_FG))
      con3 = 1.00/1000000.00*1000.00*86400.00
      con4 = 3.7850000000 ! MGD * mg/L * con4,
c     con4 = 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg

      do 180 I=1,num
      mldt19_tot_cbodu=mldt19_tot_cbodu+NP_bod(I)
      mldt19_tot_org= mldt19_tot_org+NP_org(I)
180   continue

C* Here I will arrange the elemntal surface areas into the numerical order to match the order the SOD
C* and NH3 data are in.
c          elem_col(1) = elem_col_int(1)
c          S_Area(1) = S_Area_int(1)
c      DO 185 I=2,total_elem   !need to start at 2 for comaprisons
c          elem_col(I)=I
c          if (elem_col_int(I).EQ.I) then
c             S_Area(I) = S_Area_int(I)
c          else
c
c             DO 184 R=1,total_elem  !go through the list until we get a match
c             if (Elem_col_int(R).EQ.Elem_col(I)) then
c                S_Area(I) = S_Area_int(I)
c             end if
c184          continue
c          end if

c185   continue

      cir=num_incr
      DO 190 cirr=1,cir

      incr_CBODu(cirr)=incr_flow(cirr)*incr2_CBODu_con(cirr)*con3
      incr_Org_N(cirr)=incr_flow(cirr)*incr2_Org_N_con(cirr)*con3
      incr_Amm_N(cirr)=incr_flow(cirr)*incr2_Amm_N_con(cirr)*con3
      incr_NItrate(cirr)=incr_flow(cirr)*incr2_Nitrate_con(cirr)*con3

      incr_CBODu_tot=incr_CBODu_tot+incr_CBODu(cirr)
      incr_Org_N_tot=incr_Org_N_tot+incr_Org_N(cirr)
      incr_Amm_N_tot=incr_Amm_N_tot+incr_Amm_N(cirr)
      incr_Nitrate_tot=incr_Nitrate_tot+incr_Nitrate(cirr)
190   continue

C*********** calcualtions for point soucers EXPLICITLY modeled
      cir=ps_num_wstld
      DO 194 cirr=1,cir
      ps_WSTLD2_BOD_con(cirr)=ps_wstld2_bod(cirr)
      ps_WSTLD2_ORG_con(cirr)=ps_wstld2_org(cirr)
      ps_WSTLD2_NH3_con(cirr)=ps_wstld2_nh3(cirr)
      ps_WSTLD2_NO3_con(cirr)=ps_wstld2_no3(cirr)

      ps_WSTLD2_BOD_cal(cirr)=ps_WSTLD_Flow(cirr)*ps_WSTLD2_BOD_con(cirr
     &)*con3
      ps_WSTLD2_Org_cal(cirr)=ps_WSTLD_FLow(cirr)*ps_WSTLD2_Org_con(cirr
```

```
     &)*con3
      ps_WSTLD2_NH3_cal(cirr)=ps_WSTLD_FLow(cirr)*ps_WSTLD2_NH3_con(cirr
     &)*con3
      ps_WSTLD2_NO3_cal(cirr)=ps_WSTLD_Flow(cirr)*ps_WSTLD2_NO3_con(cirr
     &)*con3

      wla_ps_WSTLD2_org_cal_sum(cirr)=ps_WSTLD2_org_cal(cirr)*(1-ps_mos-
     &ps_FG)
      wla_ps_WSTLD2_NH3_cal_sum(cirr)=ps_WSTLD2_NH3_cal(cirr)*(1-ps_mos-
     &ps_FG)
      wla_ps_WSTLD2_NO3_cal_sum(cirr)=ps_WSTLD2_NO3_cal(cirr)*(1-ps_mos-
     &ps_FG)

      ps_WSTLD2_BOD_cal_tot=ps_WSTLD2_BOD_cal_tot+ps_WSTLD2_BOD_cal(cirr
     &)
      ps_WSTLD2_Org_cal_tot=ps_WSTLD2_Org_cal_tot+ps_WSTLD2_Org_cal(cirr
     &)
      ps_WSTLD2_NH3_cal_tot=ps_WSTLD2_NH3_cal_tot+ps_WSTLD2_NH3_cal(cirr
     &)
      ps_WSTLD2_NO3_cal_tot=ps_WSTLD2_NO3_cal_tot+ps_WSTLD2_NO3_cal(cirr
     &)

        oxy_dem_ps_wstld2_bod_cal(cirr)=1*ps_WSTLD2_BOD_cal(cirr
     &)
        oxy_dem_ps_wstld2_org_cal(cirr)=ammoxy_rat*ps_wstld2_org_cal(cirr
     &)
        oxy_dem_ps_wstld2_nh3_cal(cirr)=ammoxy_rat*ps_wstld2_nh3_cal(cirr
     &)
        mod_tot_oxy_dem_ps(cirr)=oxy_dem_ps_wstld2_bod_cal(cirr)+oxy_dem_
     &ps_wstld2_org_cal(cirr)+ oxy_dem_ps_wstld2_nh3_cal(cirr)

        wla_ps_wstld2_bod_cal(cirr)=ps_wstld2_bod_cal(cirr)*(1-ps_mos-ps_
     &FG)
        wla_ps_WSTLD2_ORG_cal(cirr)=oxy_dem_ps_WSTLD2_Org_cal(cirr)*(1-ps
     &_mos-ps_FG)
        wla_ps_wstld2_nh3_cal(cirr)=oxy_dem_ps_WSTLD2_NH3_cal(cirr)*(1-ps
     &_mos-ps_FG)
        wla_mod_tot_oxy_dem_ps(cirr)=mod_tot_oxy_dem_ps(cirr)*(1-ps_mos-p
     &s_FG)

C     rounding functions (uisng the anint function)

        wla_ps_wstld2_bod_cal(cirr)=wla_ps_wstld2_bod_cal(cirr)*100
        wla_ps_wstld2_bod_cal(cirr)=anint(wla_ps_wstld2_bod_cal(cirr))
        wla_ps_wstld2_bod_cal(cirr)=wla_ps_wstld2_bod_cal(cirr)/100

        wla_ps_wstld2_org_cal(cirr)=wla_ps_wstld2_org_cal(cirr)*100
        wla_ps_wstld2_org_cal(cirr)=anint(wla_ps_wstld2_org_cal(cirr))
        wla_ps_wstld2_org_cal(cirr)=wla_ps_wstld2_org_cal(cirr)/100

        wla_ps_wstld2_nh3_cal(cirr)=wla_ps_wstld2_nh3_cal(cirr)*100
        wla_ps_wstld2_nh3_cal(cirr)=anint(wla_ps_wstld2_nh3_cal(cirr))
        wla_ps_wstld2_nh3_cal(cirr)=wla_ps_wstld2_nh3_cal(cirr)/100

        wla_mod_tot_oxy_dem_ps(cirr)=wla_mod_tot_oxy_dem_ps(cirr)*100
        wla_mod_tot_oxy_dem_ps(cirr)=anint(wla_mod_tot_oxy_dem_ps(cirr))
        wla_mod_tot_oxy_dem_ps(cirr)=wla_mod_tot_oxy_dem_ps(cirr)/100

C**************** nps wasteload calculations
194   continue
      do 196 cirr=1,nps_num_wstld
      nps_WSTLD2_BOD_con(cirr)=nps_wstld2_bod(cirr)
      nps_WSTLD2_ORG_con(cirr)=nps_wstld2_org(cirr)
      nps_WSTLD2_NH3_con(cirr)=nps_wstld2_nh3(cirr)
      nps_WSTLD2_NO3_con(cirr)=nps_wstld2_no3(cirr)

      nps_WSTLD2_BOD_cal(cirr)=nps_WSTLD_Flow(cirr)*nps_WSTLD2_BOD_con(c
     &irr)*con3
      nps_WSTLD2_Org_cal(cirr)=nps_WSTLD_FLow(cirr)*nps_WSTLD2_Org_con(c
     &irr)*con3
      nps_WSTLD2_NH3_cal(cirr)=nps_WSTLD_FLow(cirr)*nps_WSTLD2_NH3_con(c
     &irr)*con3
      nps_WSTLD2_NO3_cal(cirr)=nps_WSTLD_Flow(cirr)*nps_WSTLD2_NO3_con(c
     &irr)*con3
```

```
      nps_WSTLD2_BOD_cal_tot=nps_WSTLD2_BOD_cal_tot+nps_WSTLD2_BOD_cal(c
     &irr)
      nps_WSTLD2_Org_cal_tot=nps_WSTLD2_Org_cal_tot+nps_WSTLD2_Org_cal(c
     &irr)
      nps_WSTLD2_NH3_cal_tot=nps_WSTLD2_NH3_cal_tot+nps_WSTLD2_NH3_cal(c
     &irr)
      nps_WSTLD2_NO3_cal_tot=nps_WSTLD2_NO3_cal_tot+nps_WSTLD2_NO3_cal(c
     &irr)

      nps_WSTLD2_BOD_cal_tot=nps_WSTLD2_BOD_cal_tot*100
      nps_WSTLD2_BOD_cal_tot=anint(nps_WSTLD2_BOD_cal_tot)
      nps_WSTLD2_BOD_cal_tot=nps_WSTLD2_BOD_cal_tot/100

      nps_WSTLD2_Org_cal_tot=nps_WSTLD2_Org_cal_tot*100
      nps_WSTLD2_Org_cal_tot=anint(nps_WSTLD2_Org_cal_tot)
      nps_WSTLD2_Org_cal_tot=nps_WSTLD2_Org_cal_tot/100

      nps_WSTLD2_NH3_cal_tot=nps_WSTLD2_NH3_cal_tot*100
      nps_WSTLD2_NH3_cal_tot=anint(nps_WSTLD2_NH3_cal_tot)
      nps_WSTLD2_NH3_cal_tot=nps_WSTLD2_NH3_cal_tot/100

      nps_WSTLD2_NO3_cal_tot=nps_WSTLD2_NO3_cal_tot*100
      nps_WSTLD2_NO3_cal_tot=anint(nps_WSTLD2_NO3_cal_tot)
      nps_WSTLD2_NO3_cal_tot=nps_WSTLD2_NO3_cal_tot/100


c**********only wasteloads can be divided into point source and non point sources
196   continue

      do 198 cirr= 1, num_wstld
      WSTLD2_BOD_con(cirr)=WSTLD2_BOD(cirr)
      WSTLD2_ORG_con(cirr)=WSTLD2_Org(cirr)
      WSTLD2_NH3_con(cirr)=WSTLD2_NH3(cirr)
      WSTLD2_NO3_con(cirr)=WSTLD2_NO3(cirr)

      WSTLD2_BOD_cal(cirr)=WSTLD_Flow(cirr)*WSTLD2_BOD_con(cirr)*con3
      WSTLD2_Org_cal(cirr)=WSTLD_FLow(cirr)*WSTLD2_Org_con(cirr)*con3
      WSTLD2_NH3_cal(cirr)=WSTLD_FLow(cirr)*WSTLD2_NH3_con(cirr)*con3
      WSTLD2_NO3_cal(cirr)=WSTLD_Flow(cirr)*WSTLD2_NO3_con(cirr)*con3

      WSTLD2_BOD_cal_tot=WSTLD2_BOD_cal_tot+WSTLD2_BOD_cal(cirr)
      WSTLD2_Org_cal_tot=WSTLD2_Org_cal_tot+WSTLD2_Org_cal(cirr)
      WSTLD2_NH3_cal_tot=WSTLD2_NH3_cal_tot+WSTLD2_NH3_cal(cirr)
      WSTLD2_NO3_cal_tot=WSTLD2_NO3_cal_tot+WSTLD2_NO3_cal(cirr)

      wstld2_bod_cal_tot=wstld2_bod_cal_tot*100
      wstld2_bod_cal_tot=anint(wstld2_bod_cal_tot)
      wstld2_bod_cal_tot=wstld2_bod_cal_tot/100

      wstld2_org_cal_tot=wstld2_org_cal_tot*100
      wstld2_org_cal_tot=anint(wstld2_org_cal_tot)
      wstld2_org_cal_tot=wstld2_org_cal_tot/100

      wstld2_NH3_cal_tot=wstld2_NH3_cal_tot*100
      wstld2_NH3_cal_tot=anint(wstld2_NH3_cal_tot)
      wstld2_NH3_cal_tot=wstld2_NH3_cal_tot/100

      wstld2_NO3_cal_tot=wstld2_NO3_cal_tot*100
      wstld2_NO3_cal_tot=anint(wstld2_NO3_cal_tot)
      wstld2_NO3_cal_tot=wstld2_NO3_cal_tot/100
198   continue

      cir=num_hdwt

      DO 199 cirr=1,cir

      HDWT_BOD_cal(cirr)=HDWT1_Flow(cirr)*HDWT2_BOD_con(cirr)*con3
      HDWT_Org_cal(cirr)=HDWT1_FLow(cirr)*HDWT2_Org_con(cirr)*con3
      HDWT_NH3_cal(cirr)=HDWT1_FLow(cirr)*HDWT2_NH3_con(cirr)*con3
      HDWT_NO3_cal(cirr)=HDWT1_Flow(cirr)*HDWT2_NO3_con(cirr)*con3

      HDWT_BOD_cal_tot=HDWT_BOD_cal_tot+HDWT_BOD_cal(cirr)
```

```
      HDWT_Org_cal_tot=HDWT_Org_cal_tot+HDWT_Org_cal(cirr)
      HDWT_NH3_cal_tot=HDWT_NH3_cal_tot+HDWT_NH3_cal(cirr)
      HDWT_NO3_cal_tot=HDWT_NO3_cal_tot+HDWT_NO3_cal(cirr)

      HDWT_bod_cal_tot=HDWT_bod_cal_tot*100
      HDWT_bod_cal_tot=anint(HDWT_bod_cal_tot)
      HDWT_bod_cal_tot=wstld2_bod_cal_tot/100

      HDWT_org_cal_tot=HDWT_org_cal_tot*100
      HDWT_org_cal_tot=anint(HDWT_org_cal_tot)
      HDWT_org_cal_tot=HDWT_org_cal_tot/100

      HDWT_NH3_cal_tot=HDWT_NH3_cal_tot*100
      HDWT_NH3_cal_tot=anint(HDWT_NH3_cal_tot)
      HDWT_NH3_cal_tot=HDWT_NH3_cal_tot/100

      HDWT_NO3_cal_tot=HDWT_NO3_cal_tot*100
      HDWT_NO3_cal_tot=anint(HDWT_NO3_cal_tot)
      HDWT_NO3_cal_tot=HDWT_NO3_cal_tot/100



199   Continue


C*************** total up NPS values from incremetnal flow, tribs and headwaters
      nps_BOD_tot=incr_CBODu_tot+nps_WSTLD2_BOD_cal_tot+
     &HDWT_BOD_cal_tot
      nps_Org_N_tot=incr_Org_N_tot+nps_WSTLD2_Org_cal_tot+
     &HDWT_Org_cal_tot
      nps_NH3_N_tot=incr_Amm_N_tot+nps_WSTLD2_NH3_cal_tot+HDWT_NH3
     &_cal_tot
      nps_NO3_tot=incr_Nitrate_tot+nps_WSTLD2_NO3_cal_tot+HDWT_NO3_cal_t
     &ot

C************* total up oxygen demand for NPS
      oxy_dem_nps_org_N_tot=ammoxy_rat*nps_org_N_tot
      oxy_dem_nps_nh3_tot=ammoxy_rat*nps_nh3_N_tot
      oxy_dem_mldt19_tot_org=ammoxy_rat*mldt19_tot_org


C************* create the element and reach column, as well as other columns for
C************* for SOD and benthic ammonia
      DO 201 I=1,num
          DO 200 J=elem_begin(I), elem_end(I)
               elem_benthis(J)= C2_NH3SR (I)
               elem_sod(J)=SOD_temp_cor(I)
               elem_temp(J)=temp(I)
200            continue
201   continue



      do 202 I=1,total_elem
c               sod_temp_cor(I)=elem_sod(I)*1.065**(elem_temp(I)-20)
               sod_load(I)=sod_temp_cor(I)*s_area_int(I)*1.00/1000.00
               benthic(I)=elem_benthis(I)*s_area_int(I)*1.00/1000.00
               nps_sod_load_tot=nps_sod_load_tot+sod_load(I)
               nps_benthic_tot=nps_benthic_tot+benthic(I)
202   continue


C*****************calculate values for PS and NPS summary sections
      oxy_dem_nps_benthic_tot=ammoxy_rat*nps_benthic_tot

      nps_inflows_tot_oxy_demand=nps_BOD_tot+oxy_dem_nps_org_N_tot+oxy_d
     &em_nps_nh3_tot
      mldt19_tot_oxy_dem=mldt19_tot_cbodu+oxy_dem_mldt19_tot_org
      tot_oxy_dem_sod_ben=nps_sod_load_tot+oxy_dem_nps_benthic_tot

      tot_oxy_dem_nps=nps_inflows_tot_oxy_demand+mldt19_tot_oxy_dem+tot_
     &oxy_dem_sod_ben

      oxy_dem_ps_WSTLD2_Org_cal_tot=ps_WSTLD2_Org_cal_tot*ammoxy_rat
```

```
 oxy_dem_ps_WSTLD2_NH3_cal_tot=ps_WSTLD2_NH3_cal_tot*ammoxy_rat

 nps_summary_cbodu=nps_bod_tot+mldt19_tot_cbodu
 nps_summary_org=oxy_dem_nps_org_N_tot+oxy_dem_mldt19_tot_org
 nps_summary_ammon=oxy_dem_nps_nh3_tot+oxy_dem_nps_benthic_tot

 nps_mos_sod_load_tot=nps_sod_load_tot*nps_mos
 nps_mos_sod_load_tot=nps_mos_sod_load_tot*100
 nps_mos_sod_load_tot=anint(nps_mos_sod_load_tot)/100

 nps_mos_summary_cbodu=nps_summary_cbodu*nps_mos
 nps_mos_summary_cbodu=nps_mos_summary_cbodu*100
 nps_mos_summary_cbodu=anint(nps_mos_summary_cbodu)/100

 nps_mos_summary_org=nps_summary_org*nps_mos
 nps_mos_summary_org=nps_mos_summary_org*100
 nps_mos_summary_org=anint(nps_mos_summary_org)/100

 nps_mos_summary_ammon=nps_summary_ammon*nps_mos
 nps_mos_summary_ammon=nps_mos_summary_ammon*100
 nps_mos_summary_ammon=anint(nps_mos_summary_ammon)/100

 nps_FG_sod_load_tot=nps_sod_load_tot*nps_FG
 nps_FG_sod_load_tot=nps_FG_sod_load_tot*100
 nps_FG_sod_load_tot=anint(nps_FG_sod_load_tot)/100


 nps_FG_summary_cbodu=nps_summary_cbodu*nps_FG
 nps_FG_summary_cbodu=nps_FG_summary_cbodu*100
 nps_FG_summary_cbodu=anint(nps_FG_summary_cbodu)/100

 nps_FG_summary_org=nps_summary_org*nps_FG
 nps_FG_summary_org=nps_FG_summary_org*100
 nps_FG_summary_org=anint(nps_FG_summary_org)/100

 nps_FG_summary_ammon=nps_summary_ammon*nps_FG
 nps_FG_summary_ammon=nps_FG_summary_ammon*100
 nps_FG_summary_ammon=anint(nps_FG_summary_ammon)/100


 nps_mos_tot_oxy_dem=tot_oxy_dem_nps*nps_mos
 nps_mos_tot_oxy_dem=nps_mos_tot_oxy_dem*100
 nps_mos_tot_oxy_dem=anint(nps_mos_tot_oxy_dem)/100


 nps_FG_tot_oxy_dem=tot_oxy_dem_nps*nps_FG
 nps_FG_tot_oxy_dem=nps_FG_tot_oxy_dem*100
 nps_FG_tot_oxy_dem=anint(nps_FG_tot_oxy_dem)/100


 nps_mos_nps_NO3_tot=nps_NO3_tot*nps_mos
 nps_mos_nps_NO3_tot=nps_mos_nps_NO3_tot*100
 nps_mos_nps_NO3_tot=anint(nps_mos_nps_NO3_tot)/100


 nps_FG_nps_NO3_tot=nps_NO3_tot*nps_FG
 nps_FG_nps_NO3_tot=nps_FG_nps_NO3_tot*100
 nps_FG_nps_NO3_tot=anint(nps_FG_nps_NO3_tot)/100


 nps_LA_sod_load_tot=nps_sod_load_tot-nps_MOS_sod_load_tot-nps_FG_s
&od_load_tot
 nps_LA_summary_cbodu=nps_summary_cbodu-nps_MOS_summary_cbodu-nps_F
&G_summary_cbodu
 nps_LA_summary_org=nps_summary_org-nps_MOS_summary_org-nps_FG_summ
&ary_org
 nps_LA_summary_ammon=nps_summary_ammon-nps_MOS_summary_ammon-nps_F
&G_summary_ammon
 nps_LA_nps_NO3_tot=nps_NO3_tot-nps_MOS_nps_NO3_tot-nps_FG_nps_NO3_
&tot

 nps_LA_tot_oxy_dem=tot_oxy_dem_nps-nps_mos_tot_oxy_dem-nps_fg_tot_
&oxy_dem
```

```
c these values are from reading data from La_qual output (and thus ARE NOT minor point sources)
      ps_BOD_tot=ps_WSTLD2_BOD_cal_tot
      ps_Org_N_tot=ps_WSTLD2_Org_cal_tot
      ps_NH3_N_tot=ps_WSTLD2_NH3_cal_tot
      ps_NO3_tot=ps_WSTLD2_NO3_cal_tot

c this produces the "values for tmdl calculations table"
      do 204 I =1, num_pt_sour
               cbodu_tmdl_val(I)=2.30*cbod5_perm(I)
               if (CBOD5_perm(I).EQ.0.OR.CBOD5_perm(I).EQ.-999)then
                  cbodu_tmdl_val(I)=1.00*cod_perm(I)
                  if (cod_perm(I).EQ.0.OR.Cod_perm(I).EQ.-999)then
                  cbodu_tmdl_val(I)=0
               end if
               end if

               ammon_tmdl_val(I)=ammon_perm(I)
               if (ammon_perm(I) .EQ.-999) then
                  ammon_tmdl_val(I)=2*cbod5_perm(I)
                  if (cbod5_perm(I).EQ.-999) then
                     ammon_tmdl_val(I)=0
               end if
               end if

               no3_tmdl_val(I) = 0

               org_N_tmdl_val(I)=ammon_tmdl_val(I)*2.00

               if (cbod5_perm(I).EQ.0.AND.ammon_perm(I).EQ.0) then
               org_N_tmdl_val(I)=0
               ammon_tmdl_val(I)=0
               no3_tmdl_val(I) = 0
               end if

204   continue

C *** caluculate tmdl vlues for tmdl load chart
      do 206 I=1,num_pt_sour
         tmdl_cal_flow(I)=perm_flow(I)*fac_mos_FG
         cbodu_tmdl_cal(I) = tmdl_cal_flow(I)*cbodu_tmdl_val(I)*con4
         org_N_tmdl_cal(I) = tmdl_cal_flow(I)*org_N_tmdl_val(I)*con4
         ammon_tmdl_cal(I) = tmdl_cal_flow(I)*ammon_tmdl_val(I)*con4
         no3_tmdl_cal(I) = tmdl_cal_flow(I)*no3_tmdl_val(I) *con4

         cbodu_tmdl_tot=cbodu_tmdl_tot+cbodu_tmdl_cal(I)
         org_N_tmdl_tot=org_N_tmdl_tot+org_N_tmdl_cal(I)
         ammon_tmdl_tot=ammon_tmdl_tot+ammon_tmdl_cal(I)
         no3_tmdl_tot=no3_tmdl_tot+no3_tmdl_cal(I)

         oxy_dem_org_N_tmdl= org_N_tmdl_tot*ammoxy_rat
         oxy_dem_ammon_tmdl= ammon_tmdl_tot*ammoxy_rat


206   continue
c*********calculate tmdl values for summary chart (using ammox multiplier



c first term is read in from La-qual second is from User supplied data
c more summary calculations
      ps_summary_cbodu=ps_bod_tot+cbodu_tmdl_tot
      ps_summary_org= oxy_dem_ps_wstld2_org_cal_tot+ oxy_dem_org_N_tmdl

      ps_summary_nh3_n=oxy_dem_ps_WSTLD2_NH3_cal_tot+oxy_dem_ammon_tmdl

      tot_oxy_dem_summary=ps_summary_cbodu+ps_summary_org+ps_summary_nh3
     &_n

      mos_ps_summary_cbodu=ps_summary_cbodu*ps_mos
      mos_ps_summary_org=ps_summary_org*ps_mos
      mos_ps_summary_nh3_n= ps_summary_nh3_n*ps_mos

      FG_ps_summary_cbodu=ps_summary_cbodu*ps_FG
      FG_ps_summary_org=ps_summary_org*ps_FG
```

```
      FG_ps_summary_nh3_n= ps_summary_nh3_n*ps_FG


      min_ps_summary_tot=cbodu_tmdl_tot+oxy_dem_org_N_tmdl+oxy_dem_ammon
     &_tmdl

      mos_tot_oxy_dem_summary=tot_oxy_dem_summary*ps_mos
      FG_tot_oxy_dem_summary=tot_oxy_dem_summary*ps_FG

c WLA for minor point sources
      wla_ps_cbodu_tmdl_tot=cbodu_tmdl_tot*(1-ps_mos-ps_FG)
      wla_ps_org_N_tmdl_tot=oxy_dem_org_N_tmdl*(1-ps_mos-ps_FG)
      wla_ps_ammon_tmdl_tot=oxy_dem_ammon_tmdl*(1-ps_mos-ps_FG)
      wla_min_ps_summary_tot=min_ps_summary_tot*(1-ps_mos-ps_FG)


C*********** Nutrient TMDL calucaltions (a lot of the NPS calcualatiosn are done above
C********* in lines 677-684
C just need to take nps_org_N_tot from
C the first equtaion (which has org_N from heads, tribs and increments)
C and add mass loads data type 19
C (seen in last term),


C******** the loop below should be with the section "calcualtions for point sources explicitly modeled
C*since the loop below is all PS stuff but oh well I do not want to risk moving it

      if (ps_num_wstld .EQ.0) then
      go to 207
      end if



      do 208 cir=1,ps_num_wstld
             ps_total_nitrogen_load(cir)=ps_WSTLD2_ORG_cal(cir)+ps_WSTLD
     &2_Nh3_cal(cir)+ps_WSTLd2_NO3_cal(cir)
             ps_total_P(cir)=ps_total_nitrogen_load(cir)/nat_rat

             ps_tot_sum_total_nitrogen_load=ps_tot_sum_total_nitrogen_lo
     &ad+ps_total_nitrogen_load(cir)
             ps_tot_sum_total_P=ps_tot_sum_total_P+ps_total_P(cir)

             wla_ps_total_nitrogen_load(cir)=ps_total_nitrogen_load(cir)
     &*(1-ps_mos-ps_FG)
             wla_ps_total_P(cir)=ps_total_P(cir)*(1-ps_mos-ps_FG)

208   continue



207   nut_tmdl_nps_Org_N_tot=nps_org_N_tot+mldt19_tot_org
      nps_tot_nitrogen_load= nut_tmdl_nps_org_N_tot+nps_nh3_n_tot+
     &nps_NO3_tot

      nps_total_P=nps_tot_nitrogen_load/nat_rat

      nps_mos_nut_tmdl_nps_Org_N_tot=nut_tmdl_nps_Org_N_tot*nps_mos
      nps_mos_nps_nh3_n_tot=nps_nh3_n_tot*nps_mos
      nps_mos_nps_NO3_tot=nps_NO3_tot*nps_mos
      nps_mos_tot_nitrogen_load=nps_tot_nitrogen_load*nps_mos
      nps_mos_total_p=NPS_total_p*nps_mos

      nps_FG_nut_tmdl_nps_Org_N_tot=nut_tmdl_nps_Org_N_tot*nps_FG
      nps_FG_nps_nh3_n_tot=nps_nh3_n_tot*nps_FG
      nps_FG_nps_NO3_tot=nps_NO3_tot*nps_FG
      nps_FG_tot_nitrogen_load=nps_tot_nitrogen_load*nps_FG
      nps_FG_total_p=NPS_total_p*nps_FG

      nps_la_nut_tmdl_nps_Org_N_tot=nut_tmdl_nps_Org_N_tot*(1-nps_mos-np
     &s_FG)
      nps_la_nps_nh3_n_tot=nps_nh3_n_tot*(1-nps_mos)
      nps_la_nps_NO3_tot=nps_NO3_tot*(1-nps_mos)
      nps_la_tot_nitrogen_load=nps_tot_nitrogen_load*(1-nps_mos)
```

```
      nps_la_total_p=npS_total_p*(1-nps_mos)

      min_ps_total_nitrogen_load=org_N_tmdl_tot+ammon_tmdl_tot+no3_tmdl_
     &tot
      min_ps_total_P=min_ps_total_nitrogen_load/nat_rat

      ps_nut_tmdl_summary_org_N_tot=ps_WSTLD2_Org_cal_tot+org_N_tmdl_tot
      ps_nut_tmdl_summary_nh3_N_tot=ps_WSTLD2_NH3_cal_tot+ammon_tmdl_tot
      ps_nut_tmdl_summary_no3_N_tot=ps_WSTLD2_NO3_cal_tot+no3_tmdl_tot

      ps_tot_nitrogen_final_load=min_ps_total_nitrogen_load+ps_tot_sum_t
     &otal_nitrogen_load
      ps_tot_P_final=min_ps_total_P+ps_tot_sum_total_P

      mos_ps_nut_tmdl_sum_org_N_tot=ps_nut_tmdl_summary_org_N_tot*ps_mos
      mos_ps_nut_tmdl_sum_nh3_N_tot=ps_nut_tmdl_summary_nh3_N_tot*ps_mos
      mos_ps_nut_tmdl_sum_no3_N_tot=ps_nut_tmdl_summary_no3_N_tot*ps_mos

      FG_ps_nut_tmdl_sum_org_N_tot=ps_nut_tmdl_summary_org_N_tot*ps_FG
      FG_ps_nut_tmdl_sum_nh3_N_tot=ps_nut_tmdl_summary_nh3_N_tot*ps_FG
      FG_ps_nut_tmdl_sum_no3_N_tot=ps_nut_tmdl_summary_no3_N_tot*ps_FG

      mos_ps_tot_nitrogen_final_load=ps_tot_nitrogen_final_load*ps_mos
      mos_ps_tot_P_final=ps_tot_P_final*ps_mos

      FG_ps_tot_nitrogen_final_load=ps_tot_nitrogen_final_load*ps_FG
      FG_ps_tot_P_final=ps_tot_P_final*ps_FG

      wla_min_ps_nut_tmdl_sum_org=org_N_tmdl_tot*(1-ps_mos-ps_FG)
      wla_min_ps_nut_tmdl_sum_nh3=ammon_tmdl_tot*(1-ps_mos-ps_FG)
      wla_min_ps_nut_tmdl_sum_no3=no3_tmdl_tot*(1-ps_mos-ps_FG)

      wla_min_ps_nitrogen_final_load=min_ps_total_nitrogen_load*(1-p
     &s_mos-ps_FG)
      wla_min_ps_P_final=min_ps_total_P*(1-ps_mos-ps_FG)

c590   write(11,6090)'Calculated load for minor point sources   ',org_N_t
c     &mdl_tot,ammon_tmdl_tot,no3_tmdl_tot,min_ps_total_nitrogen_load,min
c     &_ps_total_P



c      write(11,6090)'Total for all point source loads             ',ps_n
c     &ut_tmdl_summary_org_N_tot,ps_nut_tmdl_summary_nh3_N_tot,ps_nut_tmd
c     &l_summary_no3_N_tot,ps_tot_nitrogen_final_load,ps_tot_P_final




C***********Output File Write Statements

C*****SECTION: "TMDL CALCULATIONS FOR SUBSEGMENT:"

990   format(A33,2x,A10,2x,A20)
      Write (11,990)'TMDL CALCULATIONS FOR SUBSEGMENT:',subsegnumber,sub
     &segname
      Write(11,*)'FTN ASSOCIATES, LTD.'
      Write(11,*)'Program:Pr20m6f'
      Write(11,*)' '
      Write(11,*)'INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIO
     &NS:'
      Write(11,*)'File name:',userfilename
      write(11,*)' '
      write(11,*)'INFO FOR LA-QUAL OUTPUT FILE:'
      Write(11,*)'File name:',laqualfilename
      Write(11,*)'Date/Time:',pertime
      write(11,*)LAQUAL_version
      write(11,*)'  '
      Write(11,*)'LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:'
      DO 209 numm=1, num
1000      Format(A7,1x,I3,1x,A10,1x,I3,1x,A1,1x,I3,A18,2x,A6,1x,A15)
209       WRITE(11,1000)'Reach',np_Reach(numm),'(Elements',Elem_begin(nu
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```
     &mm),'-',elem_end(numm),') is in subsegment',reach_subseg_num(numm)
     &,reach_name(numm)
      write(11,*)' '


C***** SECTION:"CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, TRIBUTARIES, AND INCREMENTAL INFLOW):"

      Write(11,3030)
      write(11,*)' '
3030  FORmat(102('='))
      Write(11,*)'CALCULATIONS FOR LOADS FROM NPS INFLOWS (HEADWATERS, T
     &RIBUTARIES, AND INCREMENTAL INFLOW):'
      Write(11,*)' '
      write(11,*)'Equation used: (Load, kg/day) = (Inflow rate, m3/sec)
     &* (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 *'
      write(11,*)'
     &                            86400 sec/day'
      write(11,*)' '
      Write(11,*)'Values from LA-QUAL output:'
      write(11,*)' '
      Write(11,*)'Reach or   Inflow      CBODu     Organic N   Ammonia N
     &        NO2+NO3 N'
      write(11,*)'Element     rate        conc.       conc.       conc.
     &          conc.'
      write(11,*)'number    (m3/sec)     (mg/L)      (mg/L)      (mg/L)
     &          (mg/L)     Name of inflow'
      write(11,*)'------    --------    --------    --------    --------
     &        --------     --------------------'
3050  Format(I3,5x,f10.5,4x,f8.2,4x,f8.2,4x,f8.2,8x,f8.2,5x,A25)
      do 210 cir=1,num_hdwt
210      write(11,3050) HDWT1_elem(cir), HDWT1_Flow(cir), HDWT2_BOD_con(
     &cir),HDWT2_ORG_con(cir),HDWT2_NH3_con(cir), HDWT2_NO3_con(cir),
     &hdwt1_name(cir)
      do 220 cir=1,nps_num_wstld
220   write(11,3050)nps_elem_wstld(cir),nps_WSTLD_Flow(cir), nps_WSTL
     &D2_BOD_con(cir),nps_WSTLD2_ORG_con(cir), nps_WSTLD2_NH3_con(cir),
     &nps_WSTLD2_NO3_con(cir),NPS_wstld_name(cir)
      do 222 cir=1,num_incr
222   write(11,3050)incr_reach(cir),incr_inFlow(cir), incr2_CBODu_con(ci
     &r),incr2_ORG_N_con(cir),incr2_Amm_N_con(cir),incr2_Nitrate_con(cir
     &),'Incremental Reach flow   '
      write(11,*)'  '
c      write(11,*)'------    --------    --------    --------    --------
c     &        --------     --------------------'
      write(11,*)'  '
      write(11,*)'Calculated values:'
      write(11,*)' '
      write(11,*)'                        CBODu     Organic N   Ammonia
     &N   NO2+NO3 N'
      write(11,*)'             Element     load        load        load
     &     load'
      write(11,*)'             number    (kg/day)    (kg/day)    (kg/day
     &)    (kg/day)'
      write(11,*)'             ------    --------    --------    --------
     &    --------'
3060  Format(13x,I3,5x,f10.2,2x,f10.2,1x,f10.2,2x,f10.2)
      cir=num_hdwt
      do 224 cirr=1,cir
224      write(11,3060) HDWT1_elem(cirr), HDWT_BOD_cal(cirr),
     &HDWT_ORG_cal(cirr),HDWT_NH3_cal(cirr), HDWT_NO3_
     &cal(cirr)
      cir=nps_num_wstld
      do 226 cirr=1,cir
226      write(11,3060)nps_elem_wstld(cirr),nps_WSTLD2_BOD_cal(cirr)
     &, nps_WSTLD2_ORG_cal(cirr), nps_WSTLD2_NH3_cal(cirr), nps_WSTLD2_N
     &O3_cal(cirr)
      do 228 cirr=1,num_incr
228      write(11,3060)incr_reach(cirr),incr_CBODu(cirr)
     &, incr_Org_N(cirr), incr_Amm_N(cirr),incr_NITrate(cirr)
      write(11,*)'             ------    --------    --------    --------
     &    --------'
3070  Format(A19,f12.2,2x,f10.2,1x,f10.2,2x,f10.2)
      write(11,3070)'Subsegment totals:',nps_BOD_tot,nps_Org_N_tot,nps_
     &NH3_N_tot,nps_NO3_tot
```

```
      write(11,*)' '


C***** SECTION:"CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TYPE 19:"

      Write(11,3030)
      write(11,*)' '
      write(11,*)'CALCULATIONS FOR NONPOINT SOURCE MASS LOADS IN DATA TY
     &PE 19:'
      write(11,*)' '
      write(11,*)'Values from LA-QUAL output:'
      write(11,*)' '
      write(11,*)'                                        CBODu       Orga
     &nic N'
      write(11,*)'                        Reach      mass load     mass
     & load'
      write(11,*)'                        number      (kg/day)      (kg
     &/day)'
      write(11,*)'                        ------      --------    -----
     &------'
      DO 230 numm=1,num
3080  Format(26X,I3,6x,F10.2,5x,F10.2)
230      Write(11,3080)NP_reach(numm),NP_BOD(numm), NP_Org(numm)
      write(11,*)'                        ------      --------    -----
     &------'
3090  format(A33,F12.2,3x,F12.2)
      write(11,3090)'Subsegment totals                ',MLDT19_tot_CBODu
     &,MLDT19_tot_org
      write(11,*)' '


C***** SECTION:"CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:"

      ctr=1
      write(11,3030)
      write(11,*)'  '
      write(11,*)'CALCULATIONS FOR LOADS FROM SOD AND BENTHIC AMMONIA:'
      write(11,*)'  '
      write(11,*)'SOD temperature correction factor used in LA-QUAL mode
     &l: 1.065 (default)'
      write(11,*)' '
      write(11,*)'Equations used: SOD temp. corrected = (SOD at 20 C) *
     &1.065^(Water temp - 20 C)'
      write(11,*)'                SOD load = (SOD temp. corrected, g/m2/
     &day) * (Surface area, m2) * 1.0E-3 kg/g'
      write(11,*)'                Benthic NH3-N load = (Benthic ammonia
     &N, g/m2/day) * (Surface area, m2) * 1.0E-3 kg/g'
      write(11,*)' '
      write(11,*)' '
      write(11,*)'                            Values from LA-QUAL output
     &:                    Calculated values:'
      write(11,*)'                    ----------------------------------
     &---------    -------------------------------'
      write(11,*)'                     Water     Surface      SOD at
     &Benthic      SOD temp.     SOD       Benthic'
      write(11,*)'Reach    Element     temp.       area        20 C
     &ammonia N    corrected     load     NH3-N load'
      write(11,*)'number   number     (deg C)      (m2)     (g/m2/day)
     &(g/m2/day)  (g/m2/day)   (kg/day)    (kg/day)'
      write(11,*)'------   ------    --------    --------    --------
     &--------     --------    --------    ---------'
      DO 300 cir=1, total_elem
4000  format(I3,7x,I3,4x,f10.2,1x,f10,3x,f10.3,1x,f10.2,5x,f6.3,3x,f10.2
     &,6x,f6.2)
4001  if (cir.LT.elem_begin(ctr)) then

      ctr=ctr-1
      go to 4001
      end if

4002  if (cir.GT.elem_end(ctr)) then
      ctr=ctr+1
      go to 4002
      end if
```

```
4009  FORMAT(I3,2x,I3,2x,I3,2x,F6.2,2x,I3,2x,I3,2x,F8.4)
C      write(13,4009)cir,elem_begin(ctr),elem_end(ctr),elem_col(cir),ctr,
C     &np_reach(ctr),elem_sod(cir)

      write (11,4000)np_reach(ctr),cir,elem_temp(cir),
     &s_area_int(cir),elem_sod(cir), elem_benthis(cir),sod_temp_cor(cir)
     &,sod_load(cir),benthic(cir)

300   continue
      write(11,*)'
     &                        --------    ---------'
4010  format(A60,16x,F10.2,2x,f10.2)
      write(11,4010)'Subsegment totals:',nps_sod_load_tot,nps_benthic_to
     &t
      write(11,*)' '


C***** SECTION:"CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:"

      write(11,3030)
      write(11,*)' '
      write(11,*)'CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EX
     &PLICITLY MODELED:'
      write(11,*)' '
      if (ps_num_wstld.EQ.0) then
      WRITE(11,*)'For this subsegment, there are no point source dischar
     &ges explicitly modeled.'
      go to 335
      end if
      write(11,*)'Equation used: (Load, kg/day) = (Inflow rate, m3/sec)
     &* (Conc., mg/L) * 1.0E-6 kg/mg * 1.0E3 L/m3 *'
      write(11,*)'
     &                               86400 sec/day'
      write(11,*)'  '
      write(11,*)'Values from LA-QUAL output:'
      write(11,*)'  '
      write(11,*)'          Inflow      CBODu     Organic N   Ammonia N
     &   NO2+NO3 N'
      write(11,*)'Element     rate        conc.       conc.       conc.
     &     conc.'
      write(11,*)'number    (m3/sec)     (mg/L)      (mg/L)      (mg/L)
     &      (mg/L)     Name of discharge'
      write(11,*)'------    --------    --------    --------    --------
     &    --------    --------------------'
      DO 330 cir=1,ps_num_wstld
4020  Format(I3,5x,f10.5,5x,f7.3,5x,f7.3,5x,f7.3,5x,f7.3,6x,A20)
        write(11,4020)ps_elem_wstld(cir),ps_WSTLD_Flow(cir), ps_WSTL
     &D2_BOD_con(cir),ps_WSTLD2_ORG_con(cir), ps_WSTLD2_NH3_con(cir),
     &ps_WSTLD2_NO3_con(cir),PS_wstld_name(cir)
330   continue
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'Calculated values:'
      write(11,*)' '
      write(11,*)'  '
      write(11,*)'                      CBODu     Organic N   Ammonia N
     & NO2+NO3 N'
      write(11,*)'            Element     load        load        load
     &       load'
      write(11,*)'            number    (kg/day)    (kg/day)    (kg/day)
     &    (kg/day)'
      write(11,*)'            ------    --------    --------    --------
     &    --------'
      cir=ps_num_wstld
      if (ps_num_wstld .EQ.0) then
      write(11,*)'             NONE         0.00        0.00        0.00
     &        0.00'
      go to 342
      end if
      do 340 cirr=1,cir
4030  Format(13x,I3,4x,f10.2,4x,f8.2,4x,f8.2,4x,f8.2)
340      write(11,4030)ps_elem_wstld(cirr),ps_WSTLD2_BOD_cal(cirr)
```

```
     &, ps_WSTLD2_ORG_cal(cirr), ps_WSTLD2_NH3_cal(cirr), ps_WSTLD2_N
     &O3_cal(cirr)
342   write(11,*)'            ------    --------    --------    --------
     &    --------'
4040  Format(A16,4x,f10.2,2x,f10.2,2x,f10.2,2x, f10.2)
      write(11,4040)'Subsegment totals:',ps_BOD_tot,ps_Org_N_tot,ps_
     &NH3_N_tot,ps_NO3_tot
      write(11,*)'  '
      write(11,*)'  '


C*****SECTION:"CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NOT EXPLICITLY MODELED:"

335   write(11,3030)
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES NO
     &T EXPLICITLY MODELED:'
      write(11,*)'  '
      if (num_pt_sour.EQ.0) THEN
         WRITE(11,*)'For this subsegment, there are no point source disc
     &harges not explicitly modeled.'
         write(11,*)' '
         GO TO 431
         END IF
4045  format (A62,f6.3,A33)
      write(11,4045)'Equations used: Flow rate from TMDL calcs = Permit
     &flow rate * ',fac_mos_FG,' (to incorporate MOS and FG) '
      write(11,*)'                (Load, kg/day) = (Flow rate, MGD) * (C
     &onc., mg/L) * 3.785 L/gal * 1.0E6 gal/MG * 1.0E-6 kg/mg'
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'Assumptions: Ratio of CBODu to CBOD5 for point source
     & dissharges = 2.3 (guidance from LTP).'
      write(11,*)'             For permits with BOD or ammonia limits, N
     &O2+NO3 = 10 mg/L (drinking water criteria).'
      write(11,*)'             For permits with COD limits, assume that
     &CBODu is about the same magnitude as COD and'
      write(11,*)'                        that discharges of nitrogen (o
     &rganic, ammonia, and NO2+NO3) are negligible.'
      write(11,*)' '
      write(11,*)'  '
      write(11,*)'                         Permit    Factor to      Flow
     &'
      write(11,*)'NPDES                    flow    incorporate   rate fo
     &r'
      write(11,*)'permit      Outfall      rate     MOS and FG   TMDL ca
     &lcs             '
      write(11,*)'number      number       (MGD)     into flow       (MG)
     &D      Comments'
      write(11,*)'--------    --------    --------    --------    ------
     &--    ----------------------------------------'
      do 400 I= 1,num_pt_sour
         tmdl_cal_flow(I)=perm_flow(I)*fac_mos_FG
4050     Format(A10,4x,A3,5x,F10.3,3x,F6.3,4x,f10.3,5x,A40)
         write (11,4050)permit_number(I), outfall_num(I),perm_flow(I),fa
     &c_mos_FG,tmdl_cal_flow(I), comment(I)
400    continue
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'                          User specified permit limits
     &:'
      write(11,*)' NPDES                  -------------------------------
     &-'
      write(11,*)' permit      Outfall     CBOD5        COD       Ammoni
     &a'
      write(11,*)' number      number      (mg/L)      (mg/L)      (mg/L
     &)     Comments'
      write(11,*)'--------    --------    --------    --------    ------
     &--    ---------------------------------------'
      do 410 I= 1,num_pt_sour
4060     Format(A10,4x,A3,5x,F10.1,2x,F10.1,2x,F10.1,4x,A40)
410      write (11,4060)permit_number(I), outfall_num(I),CBOD5_perm(I),
```

```
     &COD_perm(I), ammon_perm(I),comment_con(I)
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'                                Values for TMDL calcul
     &ations:'
      write(11,*)' NPDES                  ------------------------------
     &--------------'
      write(11,*)' permit      Outfall     CBODu     Organic N   Ammonia
     & N   NO2+NO3 N'
      write(11,*)'  number      number      (mg/L)      (mg/L)      (mg/
     &L)      (mg/L)     Comments'
      write(11,*)'--------    --------    --------    --------    ------
     &--    --------    ----------------------------'
      do 420 I= 1,num_pt_sour
         tmdl_cal_flow(I)=perm_flow(I)*fac_MOS_fg
4070     Format(A10,4x,A3,5x,F10.2,2x,F10.2,2x,F10.2,2x,F10.2)
420      write (11,4070)permit_number(I), outfall_num(I),CBODu_tmdl_val(
     &I),org_N_tmdl_val(I),ammon_tmdl_val(I), no3_tmdl_val(I)
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'                                      Calculated loads
     &:'
      write(11,*)' NPDES                  ------------------------------
     &--------------'
      write(11,*)' permit      Outfall     CBODu     Organic N   Ammonia
     &N   NO2+NO3 N'
      write(11,*)' number      number     (kg/day)    (kg/day)    (kg.da
     &y)   (kg.day)     Comments'
      write(11,*)'--------    --------    --------    --------    ------
     &--    --------    ----------------------------'
      DO 430 I= 1,num_pt_sour
4080     Format(A10,4x,A3,5x,F10.2,2x,F10.2,2x,F10.2,2x,F10.2)
         write(11,4080)permit_number(I), outfall_num(I),cbodu_tmdl_cal(I
     &), org_n_tmdl_cal(I),ammon_tmdl_cal(I),no3_tmdl_cal(I)
430   continue
      write(11,*)'                        --------    --------    ------
     &--    --------'
4090  format(A20,2x,f10.2,2x,f10.2,2x,f10.2,2x, f10.2)
      write(11,4090)'Subsegment total',cbodu_tmdl_tot,org_N_tmdl_tot,amm
     &on_tmdl_tot,no3_tmdl_tot


C*****SECTION:"SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT:"

431   write(11,3030)
      write(11,*)' '
      write(11,*)'SUMMARY OF NONPOINT SOURCE OXYGEN DEMAND FOR THIS SUBS
     &EGEMENT:'
      write(11,*)' '
      write(11,*)' '
4093  format(A52,f6.4,A30)
      write(11,4093)'Equations used:  Organic N oxygen demand, kg/day =
     &',ammoxy_rat,' * Organic N load, kg/day of N'
4094  format(A52,F6.4,A30)
      write(11,4094)'                 Ammonia N oxygen demand, kg/day =
     &',ammoxy_rat,' * Ammonia N load, kg/day of N'
4095  format(A37,f4.1,A24)
      write(11,4095)'                 Margin of safety = ',nps_mos_per,'
     &% * nonpoint source load'
4097  format(A34,f4.1,A24)
      write(11,4097)'                 Future Growth = ',nps_FG_per,'% *
     &nonpoint source load'
4099  format(A36,f4.1,A24)
      write(11,4099)'                 Load Allocation = ',100-nps_mos_pe
     &r-ps_FG_per,'% * nonpoint source load'
      write(11,*)' '
      write(11,*)'Values from calculations above'
      write(11,*)' '
      write(11,*)'
     &    Nitrogen loads (kg/day of N):'
      write(11,*)'
     &----------------------------------'
```

```
      write(11,*)'                                   SOD       CBODu
     &Organic      Ammonia     NO2+NO3 N'
      write(11,*)'                              (kg/day)    (kg/day)   (
     &kg/day)     (kg/day)     (kg/day)'
      write(11,*)'                              --------    --------   -
     &-------     --------     ---------'
5000  format(A36,4x,f10.2,1x,f10.2,3x,f10.2,4x,f10.2)
      write(11,5000)'NPS inflows                     N/A ',nps_bod_tot,n
     &ps_org_N_tot,nps_nh3_n_tot,nps_NO3_tot
5010  format(A36,4x,f10.2,1x,f10.2,4x,A20)
      write(11,5010)'Mass LOads (data type 19)       N/A ',mldt19_tot_cb
     &odu,mldt19_tot_org,'N/A          N/A'
5020  format(A15,13x,f10.2,1x,A20,5x,f10.2,7x,A4)
      write(11,5020)'SOD and Benthic ammonia',nps_sod_load_tot,'N/A
     &   N/A',nps_benthic_tot,'N/A'
c      write(11,*)'                               --------    --------   -
c     &-------     --------     ---------'
      write(11,*)'  '
      write(11,*)'Calculated loads of oxygen demand:'
      write(11,*)'
     & Oygen demand loads:     Total'
      write(11,*)'
     & -------------------     Oxygen'
      write(11,*)'                                   SOD       CBODu
     &Organic      Ammonia     demand'
      write(11,*)'                              (kg/day)    (kg/day)   (
     &kg/day)     (kg/day)     (kg/day)'
      write(11,*)'                              --------    --------   -
     &-------     --------     ---------'
c5000  format(A36,4x,f10.5,2x,f10.5,2x,f10.5,3x,f10.5)

      write(11,5000)'NPS inflows                     N/A ',nps_bod_tot,
     &oxy_dem_nps_org_N_tot,oxy_dem_nps_nh3_tot,nps_inflows_tot_oxy_dema
     &nd
5011  format(A36,4x,f10.2,1x,f10.2,8x,A3,6x,f10.2)
      write(11,5011)'Mass LOads (data type 19)       N/A ',mldt19_tot_cb
     &odu,oxy_dem_mldt19_tot_org,'N/A',mldt19_tot_oxy_dem
5021  format(A15,13x,f10.2,1x,A20,5x,f10.2,4x,f10.2)
      write(11,5021)'SOD and Benthic ammonia',nps_sod_load_tot,'N/A
     &   N/A',oxy_dem_nps_benthic_tot,tot_oxy_dem_sod_ben
      write(11,*)' '
5030  format(A23,5x,f10.2,2x,f10.2,1x,f10.2,3x,f10.2,4x,f10.2)
      write(11,5030)'Total for all NPS loads',nps_sod_load_tot,nps_summa
     &ry_cbodu,nps_summary_org,nps_summary_ammon, tot_oxy_dem_nps
      write(11,*)' '
5035  format(A22,f4.1,A2,f10.2,2x,f10.2,1x,f10.2,3x,f10.2,4x,f10.2)
      write(11,5035)'NPS future growth    (',nps_FG_per,'%)    ',nps_FG_
     &sod_load_tot,nps_FG_summary_cbodu,nps_FG_summary_org,nps_FG_s
     &ummary_ammon,nps_FG_tot_oxy_dem
5040  format(A22,f4.1,A2,f10.2,2x,f10.2,1x,f10.2,3x,f10.2,4x,f10.2)
      write(11,5040)'NPS margin of safety (',nps_mos_per,'%)    ',nps_mo
     &s_sod_load_tot,nps_mos_summary_cbodu,nps_mos_summary_org,nps_mos_s
     &ummary_ammon,nps_mos_tot_oxy_dem
5050  format(A22,f4.1,A2,f10.2,2x,f10.2,1x,f10.2,3x,f10.2,4x,f10.2)
      write(11,5050)'NPS load allocation  (',100-nps_MOS_PER-nps_FG_PER
     &,'%)    ',npS_LA_sod_load_tot,nps_LA _summary_cbodu,nps_LA_summary
     &_org,nps_La_summary_ammon,nps_LA_tot_oxy_dem
      write(11,*)' '
      write(11,*)'  '


C*****SECTION:"SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGEMENT"

      write(11,3030)
      write(11,*)' '
      Write(11,*)'SUMMARY OF POINT SOURCE OXYGEN DEMAND FOR THIS SUBSEGE
     &MENT'
      write(11,*)' '
      if (num_pt_sour+ps_num_wstld.EQ.0) THEN
         WRITE(11,*)'For this subsegment, there are no point source disc
     &harges either modeled or unmodeled in this subsegment.'
         write(11,*)' '
         GO TO 561
         end if
```

```
      write(11,*)'  '
      write(11,4093)' Equations used: Organic N oxygen demand, kg/day =
     & ',ammoxy_rat,' * Organic N load, kg/day of N'
      write(11,4093)'                 Ammonia N oxygen demand, kg/day =
     & ',ammoxy_rat,' * Ammonia N load, kg/day of N'
5052  format(A36,f4.1,A21)
      write(11,5052)'                 Margin of Safety = ',ps_mos_per,'%
     & * point source load'
5053  format(A33,F4.1,A24)
      write(11,5053)'                 Future Growth = ',nps_FG_per,'% *
     &nonpoint source load'
5054  format(A71,f4.1,A16)
      write(11,5054)'                 Wasteload Allocation (WLA) for mod
     &eled point source = ',100-ps_mos_per-ps_FG_per,'% * modeled load'
5056  format(A70,f4.1,A19)
      write(11,5056)'                 Wasteload Allocation (WLA) for min
     &or point sources = ',100-ps_mos_per-ps_FG_per,'% * calculated load
     &'
      write(11,*)' '
      write(11,*)'Values from calculations above'
      write(11,*)'
     & Nitrogen loads (kg/day of N):'
      write(11,*)'                                                      -
     &--------------------------------'
      write(11,*)'                                           CBODu    O
     &rganic N   Ammonia N    NO3+NO2'
      write(11,*)'                                          (kg/day)
     &(kg/day)    (kg/day)    (kg/day)'
      write(11,*)'                                          -------   -
     &--------    --------    --------'
      if (ps_num_wstld .EQ.0) then
      go to 470
      end if
      DO 450 cir=1,ps_num_wstld
5060  Format(A17,1x,A20,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,5060)'Modeled load for:' ,ps_wstld_name(cir),
     &ps_WSTLD2_Bod_cal(cir),ps_WSTLD2_ORG_cal(cir), ps_WSTLD2_N
     &h3_cal(cir),ps_WSTLd2_NO3_cal(cir)
450   continue
5080  format(A38,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
470   write(11,5080)'Calculated load for minor point sources   ',cbodu_t
     &mdl_tot,org_N_tmdl_tot,ammon_tmdl_tot,no3_tmdl_tot
      write(11,*)'  '
      write(11,*)'  '
      write(11,*)'Calculated loads of oxygen demand'
      write(11,*)' '
      write(11,*)'
     & Oygen demand loads:     Total'
      write(11,*)'
     & --------------------     Oxygen'
      write(11,*)'                                           CBODu    O
     &rganic N   Ammonia N     demand'
      write(11,*)'                                          (kg/day)
     &(kg/day)    (kg/day)    (kg/day)'
      write(11,*)'                                          -------   -
     &--------    --------    --------'
      if (ps_num_wstld .EQ.0) then
      go to 540
      end if
      DO 490 cir=1,ps_num_wstld
      write(11,5060)'Modeled load for:',ps_wstld_name(cir),
     &oxy_dem_ps_WSTLD2_Bod_cal(cir),oxy_dem_ps_WSTLD2_ORG_cal(cir),oxy_
     &dem_ps_WSTLD2_Nh3_cal(cir),mod_tot_oxy_dem_ps(cir)
490   continue
540   write(11,5080)'Calculated load for minor point sources   ',cbodu_t
     &mdl_tot,oxy_dem_org_N_tmdl, oxy_dem_ammon_tmdl,min_ps_summary_tot
      write(11,5080)'Total for all point source loads             ',ps_s
     &ummary_cbodu, ps_summary_org,ps_summary_nh3_n,tot_oxy_dem_summary
      write(11,*)' '
5090  Format(A31,f4.1,A3,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,5090)'MOS for all point Sources     (',ps_mos_per,'%)  ',
     &mos_ps_summary_cbodu, mos_ps_summary_org,mos_ps_summary_nh3_n,mos_
     &tot_oxy_dem_summary
5092  Format(A31,f4.1,A3,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
```

```
      write(11,5092)'FG for all point Sources      (',ps_FG_per,'%)  ',
     &FG_ps_summary_cbodu,FG_ps_summary_org,FG_ps_summary_nh3_n,FG_
     &tot_oxy_dem_summary

      if (ps_num_wstld .EQ.0) then
      go to 560
      end if
      DO 550 cir=1,ps_num_wstld
5095  Format(A8,1x,A21,A1,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,5095)'WLA for:',ps_wstld_name(cir),'(',100-ps_mos_per-ps_
     &FG_per,'%)',wla_ps_WSTLD2_BOD_cal(cir),wla_ps_WSTLD2_ORG_cal(cir),
     &wla_ps_WSTLd2_nH3_cal(cir),wla_mod_tot_oxy_dem_ps(cir)
550   continue
6000  format(A31,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
560   write(11,6000)'WLA for minor point sources   (',100-ps_mos_per-ps_
     &FG_per,'%)   ',wla_ps_cbodu_tmdl_tot,wla_ps_org_N_tmdl_tot, wla_ps
     &_ammon_tmdl_tot,wla_min_ps_summary_tot


      if (nut_tmdl_need .EQ. 'YES') then
         goto 561
      else
         go to 605
      end if


C*****SECTION:"NUTRIENT TMDL CALCULATIONS:"

561   write(11,3030)
      write(11,*)' '
      write(11,*)' '
      write(11,*)'NUTRIENT TMDL CALCULATIONS:'
      write(11,*)'  '
      if(nut_tmdl_need.EQ.'NO') then
      write(11,*)'No nutrient TMDL is needed for this subsegment'
      go to 605
      end if
      write(11,*)'Assumptions: Naturally occurring ratio of total N to t
     &otal P = ',nat_rat
      write(11,*)' '
      write(11,*)'Equations used: Total N = (Organic N) + (Ammonia N) +
     &(NO2+NO3 N)'
      write(11,*)'                Total P = (Total N) / (Naturally occur
     &ring ratio of total N to total P)'
6010  format(A39,f4.1,A24)
      write(11,6010)'              NPS margin of safety = ',nps_mos_per,
     &'% * nonpoint source load'
6015  format(A36,f4.1,A24)
      write(11,6015)'              NPS Future Growth = ',nps_FG_per,
     &'% * nonpoint source load'
6020  format(A38,f4.1,A24)
      write(11,6020)'                NPS load allocation = ',100-nps_mos
     &_per-nps_FG_per,'% * nonpoint source load'
6030  format(A57,f4.1,A27)
      write(11,6030)'                Margin of safety for all point sour
     &ces = ',ps_mos_per,'% * total point source load'
6035  format(A53,F4.1,A24)
      write(11,6035)'                Future Growth for all point soures
     &= ',nps_FG_per,'% * nonpoint source load'
6040  format(A70,f4.1,A16)
      write(11,6040)'                Wasteload allocation (WLA) for mode
     &led point source = ',100-ps_mos_per-ps_FG_per,'% * modeled load'
6050  format(A69,f4.1,A19)
      write(11,6050)'                Wasteload allocation (WLA) for mino
     &r point sources = ',100-ps_mos_per-ps_FG_per,'% * calculated load'
      write(11,*)'  '
      write(11,*)' '
      write(11,*)'Nonpoint sources:'
      write(11,*)'                                            Organic N
     &Ammonia N   NO2+NO3 N    Total N     Total P'
      write(11,*)'                                             (kg/day)
     & (kg/day)    (kg/day)    (kg/day)    (kg/day)'
      write(11,*)'                                             --------
     & --------    --------    --------    --------'
```

```
6060  format(A25,16x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,6060)'Total for all NPS loads                    ',nut_tm
     &dl_nps_org_N_tot,nps_nh3_n_tot,nps_NO3_tot,nps_tot_nitrogen_load,n
     &ps_total_P
      write(11,*)'  '
6070  format(A22,f4.1,A2,13x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,6070)'NPS margin of safety (',nps_mos_per,'%)    ',nps_mo
     &s_nut_tmdl_nps_Org_N_tot,nps_mos_nps_nh3_n_tot,nps_mos_nps_NO3_tot
     &,nps_mos_tot_nitrogen_load,nps_mos_total_p
6075  format(A22,f4.1,A2,13x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,6075)'NPS Future Growth    (',nps_mos_per,'%)    ',nps_FG
     &_nut_tmdl_nps_Org_N_tot,nps_FG_nps_nh3_n_tot,nps_FG_nps_NO3_tot
     &,nps_FG_tot_nitrogen_load,nps_FG_total_p
6080  format(A22,f4.1,A2,13x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,6080)'NPS load allocation  (',100-nps_mos_per-nps_FG_per,
     &'%)    ',nps_la_nut_tmdl_nps_Org_N_tot,nps_la_nps_nh3_n_tot,nps_la
     &_nps_NO3_tot,nps_la_tot_nitrogen_load,nps_la_total_p
      write(11,*)' '
      write(11,*)'  '
      write(11,*)'Point sources:'
      write(11,*)' '
      write(11,*)'                                          Organic N
     &Ammonia N   NO2+NO3 N    Total N     Total P'
      write(11,*)'                                           (kg/day)
     & (kg/day)    (kg/day)    (kg/day)    (kg/day)'
      write(11,*)'                                           --------
     & --------    --------    --------    --------'
      if (ps_num_wstld .EQ.0) then
      go to 590
      end if
      DO 585 cir=1,ps_num_wstld
6085  Format(A17,1x,A14,8x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
        write(11,6085)'Modeled load for:',ps_wstld_name(cir),
     &ps_WSTLD2_ORG_cal(cir),ps_WSTLD2_Nh3_cal(cir),ps_WSTLd2_NO3_cal(c
     &ir),ps_total_nitrogen_load(cir),ps_total_P(cir)

585   continue
c5080  format(A38,2x,f10.5,2x,f10.5,2x,f10.5,2x,f10.5)
6090  format(A38,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
590   write(11,6090)'Calculated load for minor point sources   ',org_N_t
     &mdl_tot,ammon_tmdl_tot,no3_tmdl_tot,min_ps_total_nitrogen_load,min
     &_ps_total_P
      write(11,*)'                                           --------
     & --------    --------    --------    --------'
      write(11,6090)'Total for all point source loads             ',ps_n
     &ut_tmdl_summary_org_N_tot,ps_nut_tmdl_summary_nh3_N_tot,ps_nut_tmd
     &l_summary_no3_N_tot,ps_tot_nitrogen_final_load,ps_tot_P_final
      write(11,*)' '
7000  Format(A31,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,7000)'MOS for all point Sources     (',ps_mos_per,'%)',
     &mos_ps_nut_tmdl_sum_org_N_tot,mos_ps_nut_tmdl_sum_nh3_N_tot,
     &mos_ps_nut_tmdl_sum_no3_N_tot,mos_ps_tot_nitrogen_final_load,
     &mos_ps_tot_P_final
7005  Format(A31,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)
      write(11,7005)'FG for all point Sources      (',ps_mos_p
     &er,'%)',FG_ps_nut_tmdl_sum_org_N_tot,FG_ps_nut_tmdl_sum_nh3_N_to
     &t,FG_ps_nut_tmdl_sum_no3_N_tot,FG_ps_tot_nitrogen_final_load,
     &FG_ps_tot_P_final
      if (ps_num_wstld .EQ.0) then
      go to 610
      end if
      DO 600 cir=1,ps_num_wstld
7010  Format(A9,1x,A20,A1,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2
     &x,f10.2)
600   write(11,7010)'WLA for: ',ps_wstld_name(cir),'(',100-ps_mos_per-ps
     &_FG_per,'%)',wla_ps_WSTLD2_ORG_cal_sum(cir),wla_ps_WSTLd2_nH3_cal_
     &sum(cir),wla_ps_wstLD2_NO3_cal_sum(cir),wla_ps_total_nitrogen_load
     &(cir),wla_ps_total_P(cir)
610   continue
7020  format(A31,f4.1,A2,3x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2,2x,f10.2)

      write(11,7020)'WLA for minor point sources   (',100-ps_mos_per-ps_
     &FG_per,'%)   ',wla_min_ps_nut_tmdl_sum_org,wla_min_ps_nut_tmdl_sum
     &_nh3,wla_min_ps_nut_tmdl_sum_no3,wla_min_ps_nitrogen_final_load
```

```
     &,wla_min_ps_P_final

605   Print*,'Program has made the output file!!!'

606   STOP
      END
```

APPENDIX Q

Ammonia Toxicity Calculations

Table N.1. AMMONIA TOXICITY CALCULATIONS FOR BAYOU TORO (SUBSEGMENT 110401)

Equations from 1999 Update of Ambient Water Quality Criteria for Ammonia, EPA-822-R-99-014, Dec. 1999.

Use chronic criterion when fish early life stages are present (as mentioned on page 88, this is the same as CCC for early life stages absent when temp > 15°C)

CCC, in mg N/L = $[0.0577/(1+10^{7.688-pH}) + 2.487/(1+10^{pH-7.688})] * MIN [2.85, 1.45*10^{0.028*(25-T)}]$

Note: CCC is the Chronic Criterion Concentration

pH values below are the average of the measurements on Bayou Toro from the FTN intensive survey.
Temperature values below are the critical temperature used in the projection simulation.

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
1	6.6	27.7	2.8	0.14	No
2	6.6	27.7	2.8	0.14	No
3	6.6	27.7	2.8	0.14	No
4	6.6	27.7	2.8	0.14	No
5	6.6	27.7	2.8	0.14	No
6	6.6	27.7	2.8	0.14	No
7	6.6	27.7	2.8	0.14	No
8	6.6	27.7	2.8	0.14	No
9	6.6	27.7	2.8	0.14	No
10	6.6	27.7	2.8	0.14	No
11	6.6	27.7	2.8	0.14	No
12	6.6	27.7	2.8	0.13	No
13	6.6	27.7	2.8	0.13	No
14	6.6	27.7	2.8	0.13	No
15	6.6	27.7	2.8	0.13	No
16	6.6	27.7	2.8	0.13	No
17	6.6	27.7	2.8	0.13	No
18	6.6	27.7	2.8	0.13	No
19	6.6	27.7	2.8	0.13	No
20	6.6	27.7	2.8	0.13	No
21	6.6	27.7	2.8	0.13	No
22	6.6	27.7	2.8	0.13	No
23	6.6	27.7	2.8	0.13	No
24	6.6	27.7	2.8	0.13	No
25	6.6	27.7	2.8	0.13	No
26	6.6	27.7	2.8	0.13	No
27	6.6	27.7	2.8	0.13	No
28	6.6	27.7	2.8	0.13	No
29	6.6	27.7	2.8	0.13	No
30	6.6	27.7	2.8	0.13	No
31	6.6	27.7	2.8	0.13	No
32	6.6	27.7	2.8	0.13	No
33	6.6	27.7	2.8	0.13	No
34	6.6	27.7	2.8	0.13	No
35	6.6	27.7	2.8	0.13	No
36	6.6	27.7	2.8	0.13	No
37	6.6	27.7	2.8	0.13	No
38	6.6	27.7	2.8	0.13	No
39	6.6	27.7	2.8	0.13	No
40	6.6	27.7	2.8	0.13	No
41	6.6	27.7	2.8	0.13	No
42	6.6	27.7	2.8	0.13	No
43	6.6	27.7	2.8	0.13	No
44	6.6	27.7	2.8	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
45	6.6	27.7	2.8	0.13	No
46	6.6	27.7	2.8	0.13	No
47	6.6	27.7	2.8	0.13	No
48	6.6	27.7	2.8	0.13	No
49	6.6	27.7	2.8	0.13	No
50	6.6	27.7	2.8	0.13	No
51	6.6	27.7	2.8	0.13	No
52	6.6	27.7	2.8	0.13	No
53	6.6	27.7	2.8	0.13	No
54	6.6	27.7	2.8	0.13	No
55	6.6	27.7	2.8	0.13	No
56	6.6	27.7	2.8	0.13	No
57	6.6	27.7	2.8	0.13	No
58	6.6	27.7	2.8	0.13	No
59	6.6	27.7	2.8	0.13	No
60	6.6	27.7	2.8	0.13	No
61	6.6	27.7	2.8	0.13	No
62	6.6	27.7	2.8	0.12	No
63	6.6	27.7	2.8	0.12	No
64	6.6	27.7	2.8	0.12	No
65	6.6	27.7	2.8	0.12	No
66	6.6	27.7	2.8	0.12	No
67	6.6	27.7	2.8	0.12	No
68	6.6	27.7	2.8	0.12	No
69	6.6	27.7	2.8	0.12	No
70	6.6	27.7	2.8	0.12	No
71	6.6	27.7	2.8	0.12	No
72	6.6	27.7	2.8	0.12	No
73	6.6	27.7	2.8	0.12	No
74	6.6	27.7	2.8	0.12	No
75	6.6	27.7	2.8	0.12	No
76	6.6	27.7	2.8	0.12	No
77	6.6	27.7	2.8	0.12	No
78	6.6	27.7	2.8	0.12	No
79	6.6	27.7	2.8	0.12	No
80	6.6	27.7	2.8	0.12	No
81	6.6	27.7	2.8	0.12	No
82	6.6	27.7	2.8	0.12	No
83	6.6	27.7	2.8	0.12	No
84	6.6	27.7	2.8	0.12	No
85	6.6	27.7	2.8	0.12	No
86	6.6	27.7	2.8	0.12	No
87	6.6	27.7	2.8	0.12	No
88	6.6	27.7	2.8	0.12	No
89	6.6	27.7	2.8	0.12	No
90	6.6	27.7	2.8	0.12	No
91	6.6	27.7	2.8	0.12	No
92	6.6	27.7	2.8	0.12	No
93	6.6	27.7	2.8	0.12	No
94	6.6	27.7	2.8	0.12	No
95	6.6	27.7	2.8	0.12	No
96	6.6	27.7	2.8	0.12	No
97	6.6	27.7	2.8	0.12	No
98	6.6	27.7	2.8	0.12	No
99	6.6	27.7	2.8	0.12	No
100	6.6	27.7	2.8	0.12	No
101	6.6	27.7	2.8	0.12	No
102	6.6	27.7	2.8	0.12	No
103	6.6	27.7	2.8	0.12	No
104	6.6	27.7	2.8	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
105	6.6	27.7	2.8	0.12	No
106	6.6	27.7	2.8	0.12	No
107	6.6	27.7	2.8	0.12	No
108	6.6	27.7	2.8	0.12	No
109	6.6	27.7	2.8	0.12	No
110	6.6	27.7	2.8	0.12	No
111	6.6	27.7	2.8	0.12	No
112	6.6	27.7	2.8	0.12	No
113	6.6	27.7	2.8	0.12	No
114	6.6	27.7	2.8	0.12	No
115	6.6	27.7	2.8	0.12	No
116	6.6	27.7	2.8	0.12	No
117	6.6	27.7	2.8	0.12	No
118	6.6	27.7	2.8	0.12	No
119	6.6	27.7	2.8	0.12	No
120	6.6	27.7	2.8	0.12	No
121	6.6	27.7	2.8	0.12	No
122	6.6	27.7	2.8	0.12	No
123	6.6	27.7	2.8	0.12	No
124	6.6	27.7	2.8	0.12	No
125	6.6	27.7	2.8	0.12	No
126	6.6	27.7	2.8	0.12	No
127	6.6	27.7	2.8	0.12	No
128	6.6	27.7	2.8	0.12	No
129	6.6	27.7	2.8	0.12	No
130	6.6	27.7	2.8	0.12	No
131	6.6	27.7	2.8	0.12	No
132	6.6	27.7	2.8	0.12	No
133	6.6	27.7	2.8	0.12	No
134	6.6	27.7	2.8	0.12	No
135	6.6	27.7	2.8	0.12	No
136	6.6	27.7	2.8	0.12	No
137	6.6	27.7	2.8	0.12	No
138	6.6	27.7	2.8	0.12	No
139	6.6	27.7	2.8	0.12	No
140	6.6	27.7	2.8	0.12	No
141	6.6	27.7	2.8	0.12	No
142	6.6	27.7	2.8	0.12	No
143	6.6	27.7	2.8	0.12	No
144	6.6	27.7	2.8	0.12	No
145	6.6	27.7	2.8	0.12	No
146	6.6	27.7	2.8	0.12	No
147	6.6	27.7	2.8	0.12	No
148	6.6	27.7	2.8	0.12	No
149	6.6	27.7	2.8	0.12	No
150	6.6	27.7	2.8	0.12	No
151	6.6	27.7	2.8	0.12	No
152	6.6	27.7	2.8	0.12	No
153	6.6	27.7	2.8	0.12	No
154	6.6	27.7	2.8	0.12	No
155	6.6	27.7	2.8	0.12	No
156	6.6	27.7	2.8	0.12	No
157	6.6	27.7	2.8	0.12	No
158	6.6	27.7	2.8	0.12	No
159	6.6	27.7	2.8	0.12	No
160	6.6	27.7	2.8	0.12	No
161	6.6	27.7	2.8	0.12	No
162	6.6	27.7	2.8	0.12	No
163	6.6	27.7	2.8	0.12	No
164	6.6	27.7	2.8	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
165	6.6	27.7	2.8	0.12	No
166	6.6	27.7	2.8	0.12	No
167	6.6	27.7	2.8	0.12	No
168	6.6	27.7	2.8	0.12	No
169	6.6	27.7	2.8	0.12	No
170	6.6	27.7	2.8	0.12	No
171	6.6	27.7	2.8	0.12	No
172	6.6	27.7	2.8	0.12	No
173	6.6	27.7	2.8	0.12	No
174	6.6	27.7	2.8	0.12	No
175	6.6	27.7	2.8	0.12	No
176	6.6	27.7	2.8	0.12	No
177	6.6	27.7	2.8	0.12	No
178	6.6	27.7	2.8	0.12	No
179	6.6	27.7	2.8	0.12	No
180	6.6	27.7	2.8	0.12	No
181	6.6	27.7	2.8	0.12	No
182	6.6	27.7	2.8	0.12	No
183	6.6	27.7	2.8	0.12	No
184	6.6	27.7	2.8	0.12	No
185	6.6	27.7	2.8	0.12	No
186	6.6	27.7	2.8	0.12	No
187	6.6	27.7	2.8	0.12	No
188	6.6	27.7	2.8	0.12	No
189	6.6	27.7	2.8	0.12	No
190	6.6	27.7	2.8	0.12	No
191	6.6	27.7	2.8	0.12	No
192	6.6	27.7	2.8	0.12	No
193	6.6	27.7	2.8	0.12	No
194	6.6	27.7	2.8	0.12	No
195	6.6	27.7	2.8	0.12	No
196	6.6	27.7	2.8	0.12	No
197	6.6	27.7	2.8	0.12	No
198	6.6	27.7	2.8	0.12	No
199	6.6	27.7	2.8	0.12	No
200	6.6	27.7	2.8	0.12	No
201	6.6	27.7	2.8	0.12	No
202	6.6	27.7	2.8	0.12	No
203	6.6	27.7	2.8	0.12	No
204	6.6	27.7	2.8	0.12	No
205	6.6	27.7	2.8	0.12	No
206	6.6	27.7	2.8	0.12	No
207	6.6	27.7	2.8	0.12	No
208	6.6	27.7	2.8	0.12	No
209	6.6	27.7	2.8	0.12	No
210	6.6	27.7	2.8	0.12	No
211	6.6	27.7	2.8	0.12	No
212	6.6	27.7	2.8	0.12	No
213	6.6	27.7	2.8	0.12	No
214	6.6	27.7	2.8	0.12	No
215	6.6	27.7	2.8	0.12	No
216	6.6	27.7	2.8	0.12	No
217	6.6	27.7	2.8	0.12	No
218	6.6	27.7	2.8	0.12	No
219	6.6	27.7	2.8	0.12	No
220	6.6	27.7	2.8	0.12	No
221	6.6	27.7	2.8	0.12	No
222	6.6	27.7	2.8	0.12	No
223	6.6	27.7	2.8	0.12	No
224	6.6	27.7	2.8	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
225	6.6	27.7	2.8	0.12	No
226	6.6	27.7	2.8	0.12	No
227	6.6	27.7	2.8	0.12	No
228	6.6	27.7	2.8	0.12	No
229	6.6	27.7	2.8	0.12	No
230	6.6	27.7	2.8	0.12	No
231	6.6	27.7	2.8	0.12	No
232	6.6	27.7	2.8	0.12	No
233	6.6	27.7	2.8	0.12	No
234	6.6	27.7	2.8	0.12	No
235	6.6	27.7	2.8	0.12	No
236	6.6	27.7	2.8	0.12	No
237	6.6	27.7	2.8	0.12	No
238	6.6	27.7	2.8	0.12	No
239	6.6	27.7	2.8	0.12	No
240	6.6	27.7	2.8	0.12	No
241	6.6	27.7	2.8	0.12	No
242	6.6	27.72	2.8	0.12	No
243	6.6	27.74	2.8	0.12	No
244	6.6	27.77	2.8	0.12	No
245	6.6	27.79	2.8	0.12	No
246	6.6	27.81	2.8	0.12	No
247	6.6	27.83	2.8	0.12	No
248	6.6	27.86	2.8	0.12	No
249	6.6	27.88	2.8	0.12	No
250	6.6	27.9	2.8	0.12	No
251	6.6	27.92	2.8	0.12	No
252	6.6	27.94	2.8	0.12	No
253	6.6	27.97	2.8	0.12	No
254	6.6	27.99	2.8	0.12	No
255	6.6	28.01	2.8	0.12	No
256	6.6	28.03	2.7	0.12	No
257	6.6	28.06	2.7	0.12	No
258	6.6	28.08	2.7	0.12	No
259	6.6	28.1	2.7	0.12	No
260	6.6	28.12	2.7	0.12	No
261	6.6	28.14	2.7	0.12	No
262	6.6	28.17	2.7	0.12	No
263	6.6	28.19	2.7	0.12	No
264	6.6	28.21	2.7	0.12	No
265	6.6	28.23	2.7	0.12	No
266	6.6	28.26	2.7	0.12	No
267	6.6	28.28	2.7	0.12	No
268	6.6	28.3	2.7	0.12	No
269	6.6	28.32	2.7	0.12	No
270	6.6	28.34	2.7	0.12	No
271	6.6	28.37	2.7	0.12	No
272	6.6	28.39	2.7	0.12	No
273	6.6	28.41	2.7	0.12	No
274	6.6	28.43	2.7	0.12	No
275	6.6	28.46	2.7	0.12	No
276	6.6	28.48	2.7	0.12	No
277	6.6	28.5	2.7	0.12	No
278	6.6	28.52	2.7	0.12	No
279	6.6	28.54	2.7	0.12	No
280	6.6	28.57	2.7	0.12	No
281	6.6	28.59	2.7	0.12	No
282	6.6	28.61	2.6	0.12	No
283	6.6	28.63	2.6	0.12	No
284	6.6	28.66	2.6	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
285	6.6	28.68	2.6	0.12	No
286	6.6	28.7	2.6	0.12	No
287	6.6	28.72	2.6	0.12	No
288	6.6	28.74	2.6	0.12	No
289	6.6	28.77	2.6	0.12	No
290	6.6	28.79	2.6	0.12	No
291	6.6	28.81	2.6	0.12	No
292	6.6	28.83	2.6	0.12	No
293	6.6	28.86	2.6	0.12	No
294	6.6	28.88	2.6	0.12	No
295	6.6	28.9	2.6	0.12	No
296	6.6	28.92	2.6	0.12	No
297	6.6	28.94	2.6	0.12	No
298	6.6	28.97	2.6	0.12	No
299	6.6	28.99	2.6	0.12	No
300	6.6	29.01	2.6	0.12	No
301	6.6	29.03	2.6	0.12	No
302	6.6	29.06	2.6	0.12	No
303	6.6	29.08	2.6	0.12	No
304	6.6	29.1	2.6	0.12	No
305	6.6	29.12	2.6	0.12	No
306	6.6	29.14	2.6	0.12	No
307	6.6	29.17	2.6	0.12	No
308	6.6	29.19	2.5	0.12	No
309	6.6	29.21	2.5	0.12	No
310	6.6	29.23	2.5	0.12	No
311	6.6	29.26	2.5	0.12	No
312	6.6	29.28	2.5	0.12	No
313	6.6	29.3	2.5	0.12	No
314	6.6	29.32	2.5	0.12	No
315	6.6	29.34	2.5	0.12	No
316	6.6	29.37	2.5	0.12	No
317	6.6	29.39	2.5	0.12	No
318	6.6	29.41	2.5	0.12	No
319	6.6	29.43	2.5	0.12	No
320	6.6	29.46	2.5	0.12	No
321	6.6	29.48	2.5	0.12	No
322	6.6	29.5	2.5	0.12	No
323	6.6	29.52	2.5	0.12	No
324	6.6	29.54	2.5	0.12	No
325	6.6	29.57	2.5	0.12	No
326	6.6	29.59	2.5	0.12	No
327	6.6	29.61	2.5	0.12	No
328	6.6	29.63	2.5	0.12	No
329	6.6	29.66	2.5	0.12	No
330	6.6	29.68	2.5	0.12	No
331	6.6	29.7	2.5	0.12	No
332	6.6	29.72	2.5	0.12	No
333	6.6	29.74	2.5	0.12	No
334	6.6	29.77	2.5	0.12	No
335	6.6	29.79	2.5	0.12	No
336	6.6	29.81	2.4	0.12	No
337	6.6	29.83	2.4	0.12	No
338	6.6	29.86	2.4	0.13	No
339	6.6	29.88	2.4	0.13	No
340	6.6	29.9	2.4	0.13	No
341	6.6	29.92	2.4	0.13	No
342	6.6	29.94	2.4	0.13	No
343	6.6	29.97	2.4	0.13	No
344	6.6	29.99	2.4	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
345	6.6	30.01	2.4	0.13	No
346	6.6	30.03	2.4	0.13	No
347	6.6	30.06	2.4	0.13	No
348	6.6	30.08	2.4	0.13	No
349	6.6	30.1	2.4	0.13	No
350	6.6	30.12	2.4	0.13	No
351	6.6	30.14	2.4	0.13	No
352	6.6	30.17	2.4	0.13	No
353	6.6	30.19	2.4	0.13	No
354	6.6	30.21	2.4	0.13	No
355	6.6	30.23	2.4	0.13	No
356	6.6	30.26	2.4	0.13	No
357	6.6	30.28	2.4	0.13	No
358	6.6	30.3	2.4	0.13	No
359	6.6	30.32	2.4	0.13	No
360	6.6	30.34	2.4	0.13	No
361	6.6	30.37	2.4	0.13	No
362	6.6	30.39	2.4	0.13	No
363	6.6	30.41	2.4	0.13	No
364	6.6	30.43	2.4	0.13	No
365	6.6	30.46	2.3	0.13	No
366	6.6	30.48	2.3	0.13	No
367	6.6	30.5	2.3	0.13	No
368	6.6	30.52	2.3	0.13	No
369	6.6	30.54	2.3	0.13	No
370	6.6	30.57	2.3	0.13	No
371	6.6	30.59	2.3	0.13	No
372	6.6	30.61	2.3	0.13	No
373	6.6	30.63	2.3	0.13	No
374	6.6	30.66	2.3	0.13	No
375	6.6	30.68	2.3	0.13	No
376	6.6	30.7	2.3	0.13	No
377	6.6	30.7	2.3	0.13	No
378	6.6	30.7	2.3	0.13	No
379	6.6	30.7	2.3	0.13	No
380	6.6	30.7	2.3	0.13	No
381	6.6	30.7	2.3	0.13	No
382	6.6	30.7	2.3	0.13	No
383	6.6	30.7	2.3	0.13	No
384	6.6	30.7	2.3	0.13	No
385	6.6	30.7	2.3	0.13	No
386	6.6	30.7	2.3	0.13	No
387	6.6	30.7	2.3	0.13	No
388	6.6	30.7	2.3	0.13	No
389	6.6	30.7	2.3	0.13	No
390	6.6	30.7	2.3	0.13	No
391	6.6	30.7	2.3	0.13	No
392	6.6	30.7	2.3	0.13	No
393	6.6	30.7	2.3	0.13	No
394	6.6	30.7	2.3	0.13	No
395	6.6	30.7	2.3	0.13	No
396	6.6	30.7	2.3	0.13	No
397	6.6	30.7	2.3	0.13	No
398	6.6	30.7	2.3	0.13	No
399	6.6	30.7	2.3	0.13	No
400	6.6	30.7	2.3	0.13	No
401	6.6	30.7	2.3	0.13	No
402	6.6	30.7	2.3	0.13	No
403	6.6	30.7	2.3	0.13	No
404	6.6	30.7	2.3	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
405	6.6	30.7	2.3	0.13	No
406	6.6	30.7	2.3	0.13	No
407	6.6	30.7	2.3	0.13	No
408	6.6	30.7	2.3	0.13	No
409	6.6	30.7	2.3	0.13	No
410	6.6	30.7	2.3	0.13	No
411	6.6	30.7	2.3	0.13	No
412	6.6	30.7	2.3	0.13	No
413	6.6	30.7	2.3	0.13	No
414	6.6	30.7	2.3	0.13	No
415	6.6	30.7	2.3	0.13	No
416	6.6	30.7	2.3	0.13	No
417	6.6	30.7	2.3	0.13	No
418	6.6	30.7	2.3	0.14	No
419	6.6	30.7	2.3	0.14	No
420	6.6	30.7	2.3	0.14	No
421	6.6	30.7	2.3	0.14	No
422	6.6	30.7	2.3	0.14	No
423	6.6	30.7	2.3	0.14	No
424	6.6	30.7	2.3	0.14	No
425	6.6	30.7	2.3	0.14	No
426	6.6	30.7	2.3	0.14	No
427	6.6	30.7	2.3	0.14	No
428	6.6	30.7	2.3	0.14	No
429	6.6	30.7	2.3	0.14	No
430	6.6	30.7	2.3	0.14	No
431	6.6	30.7	2.3	0.14	No
432	6.6	30.7	2.3	0.14	No
433	6.6	30.7	2.3	0.14	No
434	6.6	30.7	2.3	0.14	No
435	6.6	30.7	2.3	0.14	No
436	6.6	30.7	2.3	0.14	No
437	6.6	30.7	2.3	0.14	No
438	6.6	30.7	2.3	0.14	No
439	6.6	30.7	2.3	0.14	No
440	6.6	30.7	2.3	0.14	No
441	6.6	30.7	2.3	0.14	No
442	6.6	30.7	2.3	0.14	No
443	6.6	30.7	2.3	0.14	No
444	6.6	30.7	2.3	0.14	No
445	6.6	30.7	2.3	0.14	No
446	6.6	30.7	2.3	0.14	No
447	6.6	30.7	2.3	0.14	No
448	6.6	30.7	2.3	0.14	No
449	6.6	30.7	2.3	0.14	No
450	6.6	30.7	2.3	0.14	No
451	6.6	30.7	2.3	0.14	No
452	6.6	30.7	2.3	0.14	No
453	6.6	30.7	2.3	0.14	No
454	6.6	30.7	2.3	0.14	No
455	6.6	30.7	2.3	0.14	No
456	6.6	30.7	2.3	0.14	No
457	6.6	30.7	2.3	0.14	No
458	6.6	30.7	2.3	0.14	No
459	6.6	30.7	2.3	0.14	No
460	6.6	30.7	2.3	0.14	No
461	6.6	30.7	2.3	0.14	No
462	6.6	30.7	2.3	0.14	No
463	6.6	30.7	2.3	0.14	No
464	6.6	30.7	2.3	0.14	No

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
465	6.6	30.7	2.3	0.14	No
466	6.6	30.7	2.3	0.14	No
467	6.6	30.7	2.3	0.14	No
468	6.6	30.7	2.3	0.14	No
469	6.6	30.7	2.3	0.14	No
470	6.6	30.7	2.3	0.14	No
471	6.6	30.7	2.3	0.14	No
472	6.6	30.7	2.3	0.14	No
473	6.6	30.7	2.3	0.14	No
474	6.6	30.7	2.3	0.14	No
475	6.6	30.7	2.3	0.14	No
476	6.6	30.7	2.3	0.14	No
477	6.6	30.7	2.3	0.14	No
478	6.6	30.7	2.3	0.14	No
479	6.6	30.7	2.3	0.14	No
480	6.6	30.7	2.3	0.14	No
481	6.6	30.7	2.3	0.14	No

Table N.1. AMMONIA TOXICITY CALCULATIONS FOR BAYOU TORO (SUBSEGMENT 110401)

Equations from 1999 Update of Ambient Water Quality Criteria for Ammonia, EPA-822-R-99-014, Dec. 1999.

Use chronic criterion when fish early life stages are present (as mentioned on page 88, this is the same as CCC for early life stages absent when temp > 15°C)

CCC, in mg N/L = $[0.0577/(1+10^{7.688-pH}) + 2.487/(1+10^{pH-7.688})] * MIN [2.85, 1.45*10^{0.028*(25-T)}]$

Note: CCC is the Chronic Criterion Concentration

pH values below are the average of the measurements on Bayou Toro from the FTN intensive survey.
Temperature values below are the critical temperature used in the projection simulation.

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
1	6.6	27.7	2.8	0.15	No
2	6.6	27.7	2.8	0.15	No
3	6.6	27.7	2.8	0.15	No
4	6.6	27.7	2.8	0.15	No
5	6.6	27.7	2.8	0.15	No
6	6.6	27.7	2.8	0.15	No
7	6.6	27.7	2.8	0.15	No
8	6.6	27.7	2.8	0.14	No
9	6.6	27.7	2.8	0.14	No
10	6.6	27.7	2.8	0.14	No
11	6.6	27.7	2.8	0.14	No
12	6.6	27.7	2.8	0.14	No
13	6.6	27.7	2.8	0.14	No
14	6.6	27.7	2.8	0.14	No
15	6.6	27.7	2.8	0.14	No
16	6.6	27.7	2.8	0.14	No
17	6.6	27.7	2.8	0.14	No
18	6.6	27.7	2.8	0.14	No
19	6.6	27.7	2.8	0.14	No
20	6.6	27.7	2.8	0.14	No
21	6.6	27.7	2.8	0.14	No
22	6.6	27.7	2.8	0.14	No
23	6.6	27.7	2.8	0.14	No
24	6.6	27.7	2.8	0.14	No
25	6.6	27.7	2.8	0.14	No
26	6.6	27.7	2.8	0.14	No
27	6.6	27.7	2.8	0.14	No
28	6.6	27.7	2.8	0.14	No
29	6.6	27.7	2.8	0.14	No
30	6.6	27.7	2.8	0.14	No
31	6.6	27.7	2.8	0.13	No
32	6.6	27.7	2.8	0.13	No
33	6.6	27.7	2.8	0.13	No
34	6.6	27.7	2.8	0.13	No
35	6.6	27.7	2.8	0.13	No
36	6.6	27.7	2.8	0.13	No
37	6.6	27.7	2.8	0.13	No
38	6.6	27.7	2.8	0.13	No
39	6.6	27.7	2.8	0.13	No
40	6.6	27.7	2.8	0.13	No
41	6.6	27.7	2.8	0.13	No
42	6.6	27.7	2.8	0.13	No
43	6.6	27.7	2.8	0.13	No
44	6.6	27.7	2.8	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
45	6.6	27.7	2.8	0.13	No
46	6.6	27.7	2.8	0.13	No
47	6.6	27.7	2.8	0.13	No
48	6.6	27.7	2.8	0.13	No
49	6.6	27.7	2.8	0.13	No
50	6.6	27.7	2.8	0.13	No
51	6.6	27.7	2.8	0.13	No
52	6.6	27.7	2.8	0.13	No
53	6.6	27.7	2.8	0.13	No
54	6.6	27.7	2.8	0.13	No
55	6.6	27.7	2.8	0.13	No
56	6.6	27.7	2.8	0.13	No
57	6.6	27.7	2.8	0.13	No
58	6.6	27.7	2.8	0.13	No
59	6.6	27.7	2.8	0.13	No
60	6.6	27.7	2.8	0.13	No
61	6.6	27.7	2.8	0.13	No
62	6.6	27.7	2.8	0.13	No
63	6.6	27.7	2.8	0.13	No
64	6.6	27.7	2.8	0.13	No
65	6.6	27.7	2.8	0.13	No
66	6.6	27.7	2.8	0.13	No
67	6.6	27.7	2.8	0.13	No
68	6.6	27.7	2.8	0.13	No
69	6.6	27.7	2.8	0.13	No
70	6.6	27.7	2.8	0.13	No
71	6.6	27.7	2.8	0.13	No
72	6.6	27.7	2.8	0.13	No
73	6.6	27.7	2.8	0.13	No
74	6.6	27.7	2.8	0.13	No
75	6.6	27.7	2.8	0.13	No
76	6.6	27.7	2.8	0.13	No
77	6.6	27.7	2.8	0.13	No
78	6.6	27.7	2.8	0.13	No
79	6.6	27.7	2.8	0.13	No
80	6.6	27.7	2.8	0.13	No
81	6.6	27.7	2.8	0.13	No
82	6.6	27.7	2.8	0.13	No
83	6.6	27.7	2.8	0.13	No
84	6.6	27.7	2.8	0.13	No
85	6.6	27.7	2.8	0.13	No
86	6.6	27.7	2.8	0.13	No
87	6.6	27.7	2.8	0.13	No
88	6.6	27.7	2.8	0.13	No
89	6.6	27.7	2.8	0.13	No
90	6.6	27.7	2.8	0.13	No
91	6.6	27.7	2.8	0.13	No
92	6.6	27.7	2.8	0.13	No
93	6.6	27.7	2.8	0.13	No
94	6.6	27.7	2.8	0.13	No
95	6.6	27.7	2.8	0.13	No
96	6.6	27.7	2.8	0.13	No
97	6.6	27.7	2.8	0.13	No
98	6.6	27.7	2.8	0.13	No
99	6.6	27.7	2.8	0.13	No
100	6.6	27.7	2.8	0.13	No
101	6.6	27.7	2.8	0.13	No
102	6.6	27.7	2.8	0.13	No
103	6.6	27.7	2.8	0.13	No
104	6.6	27.7	2.8	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
105	6.6	27.7	2.8	0.13	No
106	6.6	27.7	2.8	0.13	No
107	6.6	27.7	2.8	0.13	No
108	6.6	27.7	2.8	0.13	No
109	6.6	27.7	2.8	0.13	No
110	6.6	27.7	2.8	0.12	No
111	6.6	27.7	2.8	0.12	No
112	6.6	27.7	2.8	0.12	No
113	6.6	27.7	2.8	0.12	No
114	6.6	27.7	2.8	0.12	No
115	6.6	27.7	2.8	0.12	No
116	6.6	27.7	2.8	0.12	No
117	6.6	27.7	2.8	0.12	No
118	6.6	27.7	2.8	0.12	No
119	6.6	27.7	2.8	0.13	No
120	6.6	27.7	2.8	0.13	No
121	6.6	27.7	2.8	0.13	No
122	6.6	27.7	2.8	0.13	No
123	6.6	27.7	2.8	0.13	No
124	6.6	27.7	2.8	0.13	No
125	6.6	27.7	2.8	0.13	No
126	6.6	27.7	2.8	0.13	No
127	6.6	27.7	2.8	0.13	No
128	6.6	27.7	2.8	0.13	No
129	6.6	27.7	2.8	0.13	No
130	6.6	27.7	2.8	0.13	No
131	6.6	27.7	2.8	0.13	No
132	6.6	27.7	2.8	0.13	No
133	6.6	27.7	2.8	0.13	No
134	6.6	27.7	2.8	0.13	No
135	6.6	27.7	2.8	0.13	No
136	6.6	27.7	2.8	0.13	No
137	6.6	27.7	2.8	0.13	No
138	6.6	27.7	2.8	0.13	No
139	6.6	27.7	2.8	0.13	No
140	6.6	27.7	2.8	0.13	No
141	6.6	27.7	2.8	0.13	No
142	6.6	27.7	2.8	0.13	No
143	6.6	27.7	2.8	0.13	No
144	6.6	27.7	2.8	0.13	No
145	6.6	27.7	2.8	0.13	No
146	6.6	27.7	2.8	0.13	No
147	6.6	27.7	2.8	0.13	No
148	6.6	27.7	2.8	0.13	No
149	6.6	27.7	2.8	0.13	No
150	6.6	27.7	2.8	0.13	No
151	6.6	27.7	2.8	0.13	No
152	6.6	27.7	2.8	0.13	No
153	6.6	27.7	2.8	0.13	No
154	6.6	27.7	2.8	0.13	No
155	6.6	27.7	2.8	0.13	No
156	6.6	27.7	2.8	0.13	No
157	6.6	27.7	2.8	0.13	No
158	6.6	27.7	2.8	0.13	No
159	6.6	27.7	2.8	0.13	No
160	6.6	27.7	2.8	0.13	No
161	6.6	27.7	2.8	0.13	No
162	6.6	27.7	2.8	0.13	No
163	6.6	27.7	2.8	0.13	No
164	6.6	27.7	2.8	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
165	6.6	27.7	2.8	0.13	No
166	6.6	27.7	2.8	0.13	No
167	6.6	27.7	2.8	0.13	No
168	6.6	27.7	2.8	0.13	No
169	6.6	27.7	2.8	0.12	No
170	6.6	27.7	2.8	0.12	No
171	6.6	27.7	2.8	0.12	No
172	6.6	27.7	2.8	0.12	No
173	6.6	27.7	2.8	0.12	No
174	6.6	27.7	2.8	0.12	No
175	6.6	27.7	2.8	0.12	No
176	6.6	27.7	2.8	0.12	No
177	6.6	27.7	2.8	0.12	No
178	6.6	27.7	2.8	0.12	No
179	6.6	27.7	2.8	0.12	No
180	6.6	27.7	2.8	0.12	No
181	6.6	27.7	2.8	0.12	No
182	6.6	27.7	2.8	0.12	No
183	6.6	27.7	2.8	0.12	No
184	6.6	27.7	2.8	0.12	No
185	6.6	27.7	2.8	0.12	No
186	6.6	27.7	2.8	0.12	No
187	6.6	27.7	2.8	0.12	No
188	6.6	27.7	2.8	0.12	No
189	6.6	27.7	2.8	0.12	No
190	6.6	27.7	2.8	0.12	No
191	6.6	27.7	2.8	0.12	No
192	6.6	27.7	2.8	0.12	No
193	6.6	27.7	2.8	0.12	No
194	6.6	27.7	2.8	0.12	No
195	6.6	27.7	2.8	0.12	No
196	6.6	27.7	2.8	0.12	No
197	6.6	27.7	2.8	0.12	No
198	6.6	27.7	2.8	0.12	No
199	6.6	27.7	2.8	0.12	No
200	6.6	27.7	2.8	0.12	No
201	6.6	27.7	2.8	0.12	No
202	6.6	27.7	2.8	0.12	No
203	6.6	27.7	2.8	0.12	No
204	6.6	27.7	2.8	0.12	No
205	6.6	27.7	2.8	0.12	No
206	6.6	27.7	2.8	0.12	No
207	6.6	27.7	2.8	0.12	No
208	6.6	27.7	2.8	0.12	No
209	6.6	27.7	2.8	0.12	No
210	6.6	27.7	2.8	0.12	No
211	6.6	27.7	2.8	0.12	No
212	6.6	27.7	2.8	0.12	No
213	6.6	27.7	2.8	0.12	No
214	6.6	27.7	2.8	0.12	No
215	6.6	27.7	2.8	0.12	No
216	6.6	27.7	2.8	0.12	No
217	6.6	27.7	2.8	0.12	No
218	6.6	27.7	2.8	0.12	No
219	6.6	27.7	2.8	0.12	No
220	6.6	27.7	2.8	0.12	No
221	6.6	27.7	2.8	0.12	No
222	6.6	27.7	2.8	0.12	No
223	6.6	27.7	2.8	0.12	No
224	6.6	27.7	2.8	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
225	6.6	27.7	2.8	0.12	No
226	6.6	27.7	2.8	0.12	No
227	6.6	27.7	2.8	0.12	No
228	6.6	27.7	2.8	0.12	No
229	6.6	27.7	2.8	0.12	No
230	6.6	27.7	2.8	0.12	No
231	6.6	27.7	2.8	0.12	No
232	6.6	27.7	2.8	0.12	No
233	6.6	27.7	2.8	0.12	No
234	6.6	27.7	2.8	0.12	No
235	6.6	27.7	2.8	0.12	No
236	6.6	27.7	2.8	0.12	No
237	6.6	27.7	2.8	0.12	No
238	6.6	27.7	2.8	0.12	No
239	6.6	27.7	2.8	0.12	No
240	6.6	27.7	2.8	0.12	No
241	6.6	27.7	2.8	0.12	No
242	6.6	27.72	2.8	0.12	No
243	6.6	27.74	2.8	0.12	No
244	6.6	27.77	2.8	0.12	No
245	6.6	27.79	2.8	0.12	No
246	6.6	27.81	2.8	0.12	No
247	6.6	27.83	2.8	0.12	No
248	6.6	27.86	2.8	0.12	No
249	6.6	27.88	2.8	0.12	No
250	6.6	27.9	2.8	0.12	No
251	6.6	27.92	2.8	0.12	No
252	6.6	27.94	2.8	0.12	No
253	6.6	27.97	2.8	0.12	No
254	6.6	27.99	2.8	0.12	No
255	6.6	28.01	2.8	0.12	No
256	6.6	28.03	2.7	0.12	No
257	6.6	28.06	2.7	0.12	No
258	6.6	28.08	2.7	0.12	No
259	6.6	28.1	2.7	0.12	No
260	6.6	28.12	2.7	0.12	No
261	6.6	28.14	2.7	0.12	No
262	6.6	28.17	2.7	0.12	No
263	6.6	28.19	2.7	0.12	No
264	6.6	28.21	2.7	0.12	No
265	6.6	28.23	2.7	0.12	No
266	6.6	28.26	2.7	0.12	No
267	6.6	28.28	2.7	0.12	No
268	6.6	28.3	2.7	0.12	No
269	6.6	28.32	2.7	0.12	No
270	6.6	28.34	2.7	0.12	No
271	6.6	28.37	2.7	0.12	No
272	6.6	28.39	2.7	0.12	No
273	6.6	28.41	2.7	0.12	No
274	6.6	28.43	2.7	0.12	No
275	6.6	28.46	2.7	0.12	No
276	6.6	28.48	2.7	0.12	No
277	6.6	28.5	2.7	0.12	No
278	6.6	28.52	2.7	0.12	No
279	6.6	28.54	2.7	0.12	No
280	6.6	28.57	2.7	0.12	No
281	6.6	28.59	2.7	0.12	No
282	6.6	28.61	2.6	0.12	No
283	6.6	28.63	2.6	0.12	No
284	6.6	28.66	2.6	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
285	6.6	28.68	2.6	0.12	No
286	6.6	28.7	2.6	0.12	No
287	6.6	28.72	2.6	0.12	No
288	6.6	28.74	2.6	0.12	No
289	6.6	28.77	2.6	0.12	No
290	6.6	28.79	2.6	0.12	No
291	6.6	28.81	2.6	0.12	No
292	6.6	28.83	2.6	0.12	No
293	6.6	28.86	2.6	0.12	No
294	6.6	28.88	2.6	0.12	No
295	6.6	28.9	2.6	0.12	No
296	6.6	28.92	2.6	0.12	No
297	6.6	28.94	2.6	0.12	No
298	6.6	28.97	2.6	0.12	No
299	6.6	28.99	2.6	0.12	No
300	6.6	29.01	2.6	0.12	No
301	6.6	29.03	2.6	0.12	No
302	6.6	29.06	2.6	0.12	No
303	6.6	29.08	2.6	0.12	No
304	6.6	29.1	2.6	0.12	No
305	6.6	29.12	2.6	0.12	No
306	6.6	29.14	2.6	0.12	No
307	6.6	29.17	2.6	0.12	No
308	6.6	29.19	2.5	0.12	No
309	6.6	29.21	2.5	0.12	No
310	6.6	29.23	2.5	0.12	No
311	6.6	29.26	2.5	0.13	No
312	6.6	29.28	2.5	0.13	No
313	6.6	29.3	2.5	0.13	No
314	6.6	29.32	2.5	0.13	No
315	6.6	29.34	2.5	0.13	No
316	6.6	29.37	2.5	0.13	No
317	6.6	29.39	2.5	0.13	No
318	6.6	29.41	2.5	0.13	No
319	6.6	29.43	2.5	0.13	No
320	6.6	29.46	2.5	0.13	No
321	6.6	29.48	2.5	0.13	No
322	6.6	29.5	2.5	0.13	No
323	6.6	29.52	2.5	0.13	No
324	6.6	29.54	2.5	0.13	No
325	6.6	29.57	2.5	0.13	No
326	6.6	29.59	2.5	0.13	No
327	6.6	29.61	2.5	0.13	No
328	6.6	29.63	2.5	0.13	No
329	6.6	29.66	2.5	0.13	No
330	6.6	29.68	2.5	0.13	No
331	6.6	29.7	2.5	0.13	No
332	6.6	29.72	2.5	0.13	No
333	6.6	29.74	2.5	0.13	No
334	6.6	29.77	2.5	0.13	No
335	6.6	29.79	2.5	0.13	No
336	6.6	29.81	2.4	0.13	No
337	6.6	29.83	2.4	0.13	No
338	6.6	29.86	2.4	0.13	No
339	6.6	29.88	2.4	0.13	No
340	6.6	29.9	2.4	0.13	No
341	6.6	29.92	2.4	0.13	No
342	6.6	29.94	2.4	0.13	No
343	6.6	29.97	2.4	0.13	No
344	6.6	29.99	2.4	0.13	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
345	6.6	30.01	2.4	0.13	No
346	6.6	30.03	2.4	0.13	No
347	6.6	30.06	2.4	0.13	No
348	6.6	30.08	2.4	0.13	No
349	6.6	30.1	2.4	0.13	No
350	6.6	30.12	2.4	0.13	No
351	6.6	30.14	2.4	0.13	No
352	6.6	30.17	2.4	0.13	No
353	6.6	30.19	2.4	0.13	No
354	6.6	30.21	2.4	0.13	No
355	6.6	30.23	2.4	0.13	No
356	6.6	30.26	2.4	0.13	No
357	6.6	30.28	2.4	0.13	No
358	6.6	30.3	2.4	0.13	No
359	6.6	30.32	2.4	0.13	No
360	6.6	30.34	2.4	0.13	No
361	6.6	30.37	2.4	0.13	No
362	6.6	30.39	2.4	0.13	No
363	6.6	30.41	2.4	0.13	No
364	6.6	30.43	2.4	0.13	No
365	6.6	30.46	2.3	0.13	No
366	6.6	30.48	2.3	0.13	No
367	6.6	30.5	2.3	0.13	No
368	6.6	30.52	2.3	0.13	No
369	6.6	30.54	2.3	0.13	No
370	6.6	30.57	2.3	0.13	No
371	6.6	30.59	2.3	0.13	No
372	6.6	30.61	2.3	0.13	No
373	6.6	30.63	2.3	0.13	No
374	6.6	30.66	2.3	0.13	No
375	6.6	30.68	2.3	0.13	No
376	6.6	30.7	2.3	0.13	No
377	6.6	30.7	2.3	0.13	No
378	6.6	30.7	2.3	0.13	No
379	6.6	30.7	2.3	0.13	No
380	6.6	30.7	2.3	0.13	No
381	6.6	30.7	2.3	0.13	No
382	6.6	30.7	2.3	0.13	No
383	6.6	30.7	2.3	0.13	No
384	6.6	30.7	2.3	0.13	No
385	6.6	30.7	2.3	0.12	No
386	6.6	30.7	2.3	0.12	No
387	6.6	30.7	2.3	0.12	No
388	6.6	30.7	2.3	0.12	No
389	6.6	30.7	2.3	0.12	No
390	6.6	30.7	2.3	0.12	No
391	6.6	30.7	2.3	0.12	No
392	6.6	30.7	2.3	0.12	No
393	6.6	30.7	2.3	0.12	No
394	6.6	30.7	2.3	0.12	No
395	6.6	30.7	2.3	0.12	No
396	6.6	30.7	2.3	0.12	No
397	6.6	30.7	2.3	0.12	No
398	6.6	30.7	2.3	0.12	No
399	6.6	30.7	2.3	0.12	No
400	6.6	30.7	2.3	0.12	No
401	6.6	30.7	2.3	0.12	No
402	6.6	30.7	2.3	0.12	No
403	6.6	30.7	2.3	0.12	No
404	6.6	30.7	2.3	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^oC)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
405	6.6	30.7	2.3	0.12	No
406	6.6	30.7	2.3	0.12	No
407	6.6	30.7	2.3	0.12	No
408	6.6	30.7	2.3	0.12	No
409	6.6	30.7	2.3	0.12	No
410	6.6	30.7	2.3	0.12	No
411	6.6	30.7	2.3	0.12	No
412	6.6	30.7	2.3	0.12	No
413	6.6	30.7	2.3	0.12	No
414	6.6	30.7	2.3	0.12	No
415	6.6	30.7	2.3	0.12	No
416	6.6	30.7	2.3	0.12	No
417	6.6	30.7	2.3	0.12	No
418	6.6	30.7	2.3	0.12	No
419	6.6	30.7	2.3	0.12	No
420	6.6	30.7	2.3	0.12	No
421	6.6	30.7	2.3	0.12	No
422	6.6	30.7	2.3	0.12	No
423	6.6	30.7	2.3	0.12	No
424	6.6	30.7	2.3	0.12	No
425	6.6	30.7	2.3	0.12	No
426	6.6	30.7	2.3	0.12	No
427	6.6	30.7	2.3	0.12	No
428	6.6	30.7	2.3	0.12	No
429	6.6	30.7	2.3	0.12	No
430	6.6	30.7	2.3	0.12	No
431	6.6	30.7	2.3	0.12	No
432	6.6	30.7	2.3	0.12	No
433	6.6	30.7	2.3	0.12	No
434	6.6	30.7	2.3	0.12	No
435	6.6	30.7	2.3	0.12	No
436	6.6	30.7	2.3	0.12	No
437	6.6	30.7	2.3	0.12	No
438	6.6	30.7	2.3	0.12	No
439	6.6	30.7	2.3	0.12	No
440	6.6	30.7	2.3	0.12	No
441	6.6	30.7	2.3	0.12	No
442	6.6	30.7	2.3	0.12	No
443	6.6	30.7	2.3	0.12	No
444	6.6	30.7	2.3	0.12	No
445	6.6	30.7	2.3	0.12	No
446	6.6	30.7	2.3	0.12	No
447	6.6	30.7	2.3	0.12	No
448	6.6	30.7	2.3	0.12	No
449	6.6	30.7	2.3	0.12	No
450	6.6	30.7	2.3	0.12	No
451	6.6	30.7	2.3	0.12	No
452	6.6	30.7	2.3	0.12	No
453	6.6	30.7	2.3	0.12	No
454	6.6	30.7	2.3	0.12	No
455	6.6	30.7	2.3	0.12	No
456	6.6	30.7	2.3	0.12	No
457	6.6	30.7	2.3	0.12	No
458	6.6	30.7	2.3	0.12	No
459	6.6	30.7	2.3	0.12	No
460	6.6	30.7	2.3	0.12	No
461	6.6	30.7	2.3	0.12	No
462	6.6	30.7	2.3	0.12	No
463	6.6	30.7	2.3	0.12	No
464	6.6	30.7	2.3	0.12	No

Model Element	Average pH during calibration period	Temperature in projection run (^{o}C)	Calculated CCC (mg N/L)	Predicted NH3-N conc. in projection (mg N/L)	Toxic ?
465	6.6	30.7	2.3	0.12	No
466	6.6	30.7	2.3	0.12	No
467	6.6	30.7	2.3	0.12	No
468	6.6	30.7	2.3	0.12	No
469	6.6	30.7	2.3	0.12	No
470	6.6	30.7	2.3	0.12	No
471	6.6	30.7	2.3	0.12	No
472	6.6	30.7	2.3	0.12	No
473	6.6	30.7	2.3	0.12	No
474	6.6	30.7	2.3	0.12	No
475	6.6	30.7	2.3	0.12	No
476	6.6	30.7	2.3	0.12	No
477	6.6	30.7	2.3	0.12	No
478	6.6	30.7	2.3	0.12	No
479	6.6	30.7	2.3	0.12	No
480	6.6	30.7	2.3	0.12	No
481	6.6	30.7	2.3	0.12	No