APPENDIX A

Maps

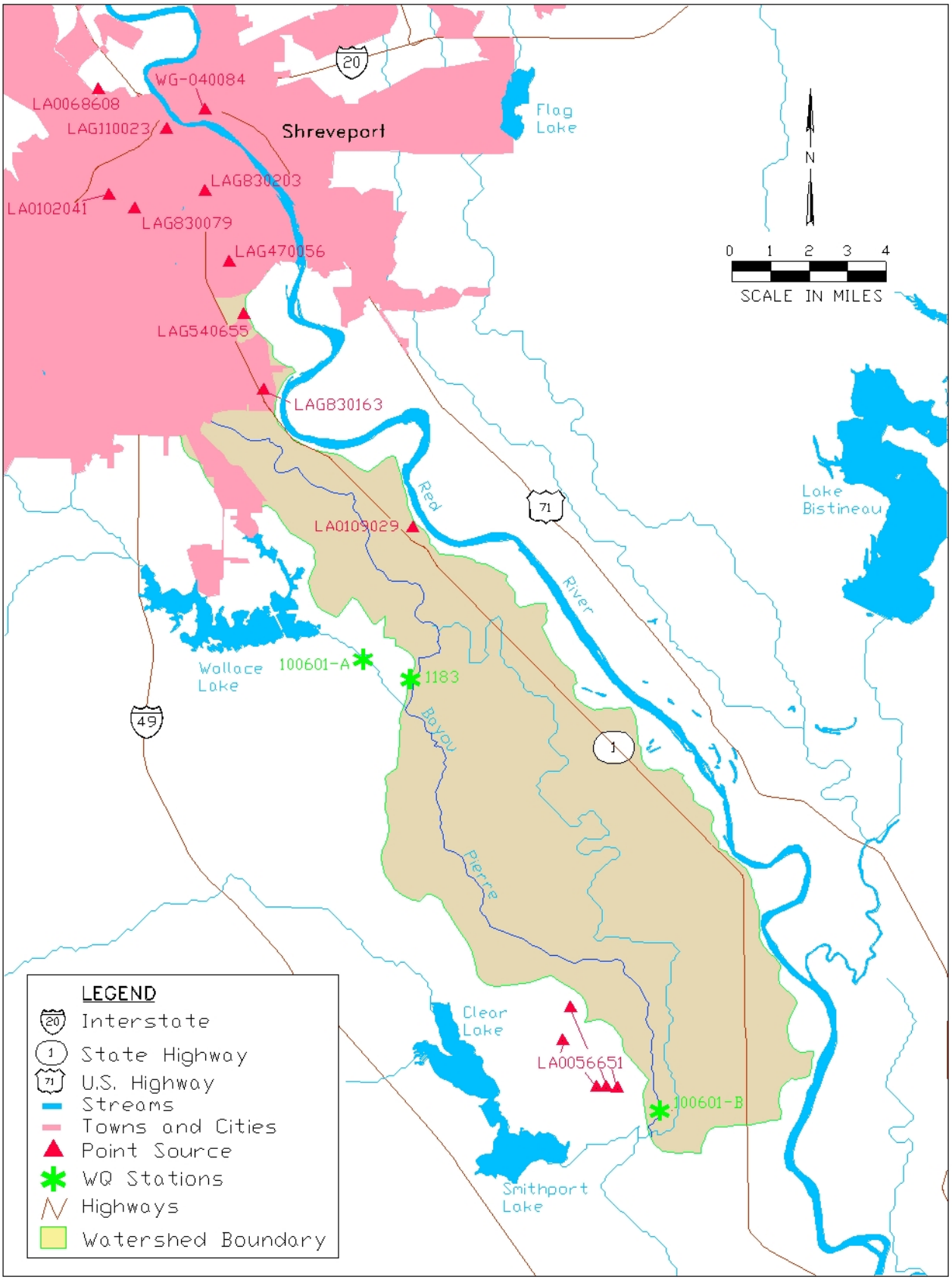

Figure A.1. Watershed map for subsegment 100601.

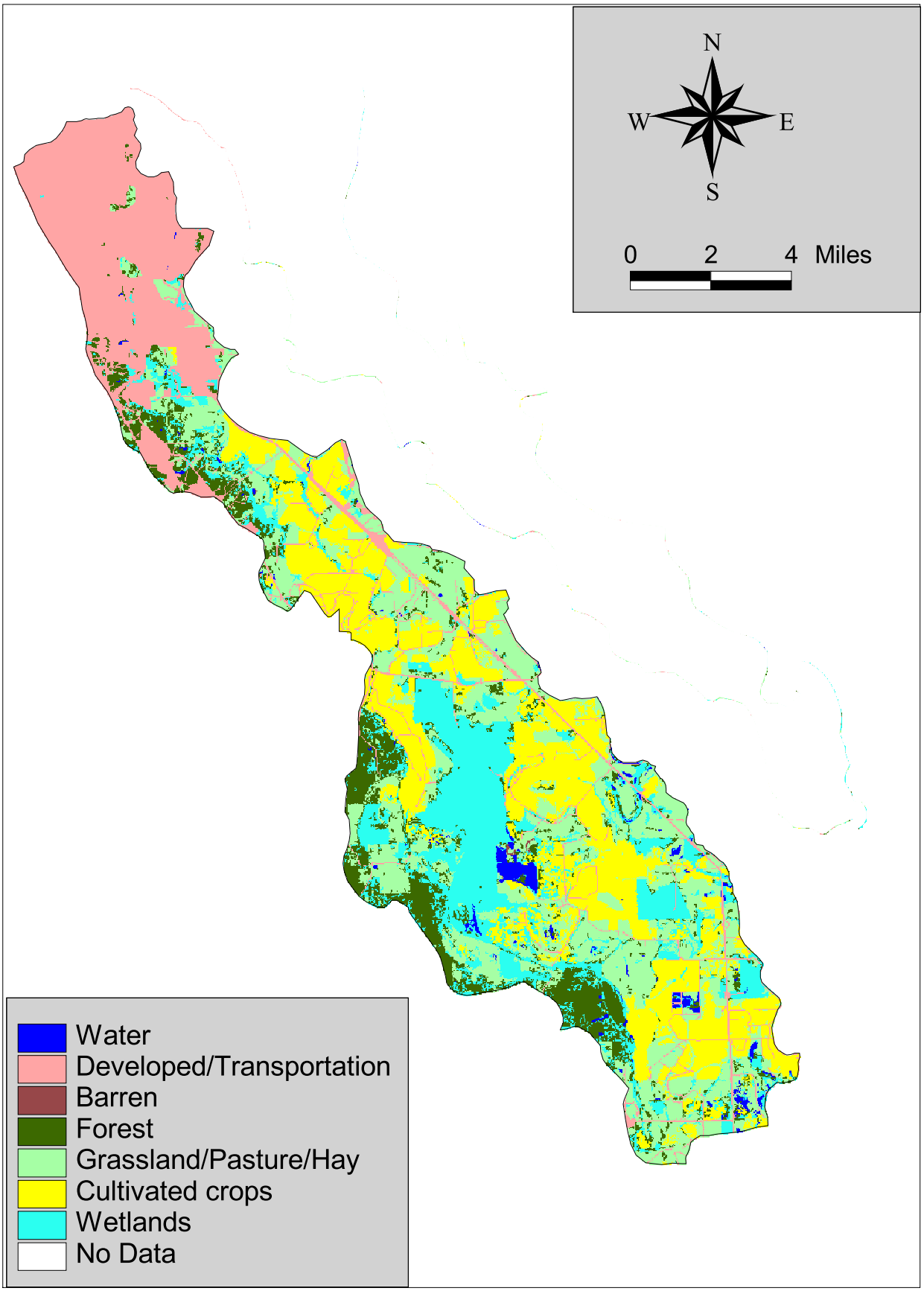

Fig A.2. Land use \ Land cover for subsegment 100601.

APPENDIX B

LDEQ Routine Monitoring Data

Table B.1. Historical Water Quality data collected by LDEQ for Bayou Pierre near Shreveport, Louisiana (278)

Date	Sample Depth (meters)	DO (mg/L)	$NO_2 + NO_3$ (mg/L)[A]	TP (mg/L)	TKN (mg/L)
1/9/90	1	6.90	0.65	1.17	1.80
3/12/90	1	10.90	0.18	0.09	1.04
5/14/90	1	4.00	0.41	0.32	1.07
6/11/90	1	4.50	0.14	0.07	0.79
7/9/90	1	5.65	0.34	0.62	1.37
9/10/90	1	9.00	0.09	0.24	1.62
11/13/90	1	7.10	1.13	0.28	0.91
1/15/91	1	9.80	0.22	0.32	0.77
3/11/91	1		0.11	0.09	0.71
5/14/91	1	8.20	0.12	0.16	1.24
7/15/91	1	7.26	< 0.02	0.20	0.81
9/9/91	1	4.00	0.08	0.27	0.93
11/19/91	0.2	4.90	0.56	0.36	0.88
1/7/92	1	7.20	0.39	0.15	0.71
3/10/92	1	3.70	0.16	0.38	1.18
5/11/92	1	9.20	0.03	0.27	1.08
11/16/92	1	8.20	0.49	0.31	3.06
1/11/93	1	10.10	0.24	0.21	1.02
3/8/93	0.2	12.10	0.20	0.10	0.75
5/10/93	0	5.75	0.42	0.44	1.30
11/15/93	1	4.83	0.45	0.65	1.23
1/11/94	1	7.94	0.66	0.39	0.89
3/15/94	0.1	8.54	< 0.02	0.36	0.91
5/10/94	0.5	4.14	0.40	0.31	1.27
7/12/94	0.5	5.45	0.26	0.47	0.90
11/15/94	1	6.07	0.31	0.24	0.60
1/10/95	0.3	5.36	0.24	0.06	0.61
3/13/95	0.7	7.11	0.25	0.14	0.90
5/9/95	0.3	4.27	0.17	0.27	1.05
7/11/95	0.5	2.17	0.04	0.16	0.63
9/12/95	0.3	5.60	0.03	0.05	0.90
11/14/95	0.3	5.31	0.07	0.11	0.72
1/8/96	0.3	7.90	0.28	0.25	2.51
3/12/96	0.5	11.65	0.02	0.62	1.56
5/14/96	0.4	3.14	0.13	0.30	1.67
9/10/96	0.2	6.18	0.11	0.11	1.18
11/18/96	0.4	4.85	0.07	0.16	1.11
1/6/97	0.3	7.52	0.12	0.15	0.82
3/11/97	0.4	4.92	0.31	0.17	1.67
5/13/97	0.4	7.67	0.03	0.10	0.53
7/15/97	0.4	5.77	1.51	0.22	1.13
9/9/97	0.4	5.86	0.05	0.15	0.84
11/18/97	0.4	10.62	0.24	0.09	0.46
1/13/98	0.5	8.95	0.32	0.30	1.17
3/10/98	0.5	10.81	0.27	0.10	0.88
5/12/98	0.4	8.64	0.18	0.18	0.53
	Count	45	46	46	46
	Minimum	2.17	0.01	0.05	0.46
	Average	6.88	0.27	0.26	1.08
	Median	6.90	0.21	0.23	0.92
	Maximum	12.10	1.51	1.17	3.06
	# Below Criterion[B]	12	NA	NA	NA
	$ Below Criterion[B]	26.7	NA	NA	NA

Notes: A. For values below the detection limit the value has been set equal to half the detection limit for computing the statistics.
B. There are no numeric criteria for nutrients.
C. Ammonia data only collected from 1999 to present, after this station was discontinued.

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Table B.2. Historical Water Quality Data Collected by LDEQ at Bayou Pierre at Ellerbee Road, south of Gayles, Lou

Date	Sample Depth (meters)	DO (mg/L)	$NO_2 + NO_3$ (mg/L)	TP (mg/L)[A]	TKN (mg/L)	Ammonia (mg/L)[A]
1/7/02	0.56	7.83	0.73	0.19	1.16	
2/5/02	0.5	7.47	0.48	< 0.1	0.70	0.26
3/5/02	1	9.93	0.11	0.07	0.62	< 0.1
4/2/02	1	3.94	0.32	0.30	1.03	0.2
5/7/02	0.5	4.12	0.46	0.18	0.47	0.27
6/4/02	0.5	4.26	0.47	0.11	0.34	0.11
7/9/02	0.5	8.08	0.25	0.10	0.34	< 0.1
8/6/02	0.3	5.49	0.32	0.12	0.42	0.11
9/10/02	0.5	4.60	0.18	0.11	0.37	< 0.1
10/8/02			0.34	0.45	0.82	0.13
11/6/02	1	7.58	0.29	0.49	0.82	< 0.1
12/3/02	0.5	7.56	0.43	0.12	0.30	0.13
1/13/04	0.3048	8.56	0.55	0.08	0.71	0.58
2/3/04	1	7.10	0.32	0.37	0.75	0.26
3/9/04	1	2.97	0.28	0.21	1.08	< 0.1
4/7/04	0.5	5.95	0.46		0.74	0.32
5/5/2004						0.23
6/29/2004						< 0.1
8/24/2004						0.24
9/14/2004						0.22
9/14/2004						0.23
10/13/2004						0.21
10/20/2004						0.28
11/16/2004						0.26
12/7/2004						0.11
	Count	15	16	15	16	24
	Minimum	2.97	0.11	0.05	0.30	0.05
	Average	6.36	0.37	0.20	0.67	0.19
	Median	7.10	0.33	0.12	0.71	0.21
	Maximum	9.93	0.73	0.49	1.16	0.58
	# Below Criterion[B]	5	NA	NA	NA	NA
	$ Below Criterion[B]	33.3	NA	NA	NA	NA

Notes: A. For values below the detection limit the value has been set equal to half the detection limit for computing the statistics.
B. There are no numeric criteria for nutrients.

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Table B.3. LDEQ Intensive Survey Data For Subsegments With At Least 40% Row Crops.

Subseg. Number	Sample ID	CBOD decay rate	CBODu (mg/L)	Initial TOC (mg/l)	NBOD decay rate	NBODu (mg/L)	Ratio CBODu / TOC
080901	LBR202 / Lower Boeuf River End of Peckerwood Rd. off Hwy. 561	0.10	8.50	4.60	0.06	1.78	1.85
	LBR204 / Lower Boeuf River Downstream of Muddy Bayou	0.07	13.41	9.20	0.06	2.40	1.46
	LBR205 / Lower Boeuf River Downstream of Big Creek	0.11	7.98	2.10	0.03	2.83	3.80
	LBR207 / Lower Boeuf River Downstream of Upper Goose Creek	0.11	12.98	4.60	0.06	3.47	2.82
	LBR209 / Lower Boeuf River Upstream of Bayou Marengo	0.12	16.26	5.30	0.06	3.87	3.07
	LBR211 / Lower Boeuf River Downstream of Bayou Lafourche Cutoff @ H	0.10	9.80	4.70	0.04	2.91	2.09
	LBR214 / Lower Boeuf River Downstream of Lower Eagle Creek	0.08	6.70	4.40	0.07	1.78	1.52
	LBR216 / Lower Boeuf River Downstream of Grassy and Big Grassy Bayo	0.08	5.47	3.80	0.05	1.49	1.44
	LBR218 / Lower Boeuf River Downstream of Lower Goose Creek	0.09	5.76	4.80	0.05	1.76	1.20
	LBR220 / Lower Boeuf River Downstream of Duck Creek	0.09	6.70	4.50	0.05	1.44	1.49
	LBR222 / Lower Boeuf River Upstream of Turkey Creek	0.08	6.77	5.90	0.07	1.58	1.15
	LBR224 / Lower Boeuf River Downstream of Deer Creek	0.08	5.83	5.20	0.04	1.70	1.12
	LBR226 / Lower Boeuf River Dave's Bayou: Upstream from Boeuf River	0.11	8.60	1.00	0.05	2.10	8.60
	LBR228 / Lower Boeuf River Big Creek: Upstream from Boeuf River	0.10	6.83	2.40	0.09	1.47	2.85
	LBR229 / Lower Boeuf River Upper Goose Creek: Upstream from Boeuf River	0.14	42.65	11.30	0.06	12.62	3.77
	LBR231 / Lower Boeuf River Bayou Lafourche Cutoff: Upstream from Boeuf River	0.10	6.52	1.00	0.06	1.89	6.52
	LBR232 / Lower Boeuf River Lower Eagle Creek: Upstream from Boeuf	0.09	8.44	4.00	0.10	2.18	2.11
	LBR233 / Lower Boeuf River Big Grassy Bayou: Upstream from Boeuf River	0.11	7.28	4.80	0.07	1.97	1.52
	LBR234 / Lower Boeuf River Grassy Bayou: Upstream from Boeuf River	0.08	5.67	4.90	0.03	2.08	1.16
	LBR237 / Lower Boeuf River Turkey Creek: Upstream from Boeuf River	0.08	7.44	5.40	0.05	1.86	1.38
	LBR238 / Lower Boeuf River Deer Creek: Upstream from Boeuf River	0.09	11.19	5.20	0.07	3.27	2.15
080907	TC12 / Turkey Creek unnamed tributary at Main Street	0.14	7.79	1.00	0.11	1.37	7.79
	TC13 / Turkey Creek Winnsboro Municipal POTW effluent ditch	*	*	*	*	*	*
	TC15 / Turkey Creek Unnamed Trib #2 on Hwy. 865	0.10	2.25	1.00	0.13	0.96	2.25
	TC19 / Turkey Creek Unnamed Trib at Dummy Line Rd.	0.07	7.67	4.20	0.06	1.37	1.83
	TC2 / Turkey Creek @ Alice Shaw Rd.	0.08	8.35	6.10	0.07	1.48	1.37
	TC4 / Turkey Creek @ Hwy. 15	0.10	4.52	3.30	0.13	1.17	1.37
	TC6 / Turkey Creek @ Green Light Rd.	0.09	5.60	3.90	0.07	1.34	1.44
	TC9 / Turkey Creek @ Hwy. 128	0.08	6.50	8.40	0.09	1.60	0.77
	TC99 / Turkey Creek above dam	0.08	6.64	3.80	0.13	3.22	1.75
080909	CL1 - N of Start, LA (Culverts at Conley Rd)	0.09	5.35	5.80	0.14	2.01	0.92
	CL1 - N of Start, LA (Culverts at Conley Rd)	0.09	5.83	5.30	0.15	2.09	1.10
	CL2 - N of Start, LA (@ Hwy 595 Bridge)	0.10	8.67	6.50	0.22	1.57	1.33
	CL3 - W of Start, LA (on Crew Lake Loop Rd)	0.11	8.24	7.10	0.09	2.01	1.16
	CL4 - Southwest of Start, LA (@ boat launch of	0.11	7.37	7.50	0.12	1.83	0.98

Subseg. Number	Sample ID	CBOD decay rate	CBODu (mg/L)	Initial TOC (mg/l)	NBOD decay rate	NBODu (mg/L)	Ratio CBODu / TOC
080903	Big Creek Survey Site 1 (A)	0.05	10.09	7.70	0.25	1.84	1.31
	Big Creek Survey Site 13 (A)	0.04	16.44	14.00	0.20	3.26	1.17
	Big Creek Survey Site 3 (A)	0.04	9.66	8.10	0.25	1.99	1.19
	Big Creek Survey Site 7 (A)	0.05	10.86	9.80	0.13	1.83	1.11
	Big Creek Survey Site 1 (B)	0.06	8.13	5.40	0.07	0.93	1.51
	Big Creek Survey Site 13 (B)	0.04	17.59	15.10	0.14	3.70	1.16
	Big Creek Survey Site 3 (B)	0.06	9.21	6.50	0.06	1.17	1.42
	Big Creek Survey Site 7 (B)	0.08	14.71	7.10	0.09	2.00	2.07
101605	BYCOC5-Bayou Cocodrie-Near Boat Launch	*	*	11.6	*	*	*
	BYCOC7-Bayou Cocodrie-Below Vidalia Canal	0.06	9.54	11.4	0.07	3.06	0.84
	BYCOC9-Bayou Cocodrie-At Pump #2	*	*	*	*	*	*
	BYCOC9-Bayou Cocodrie-At Pump #2	0.05	8.34	1.0	0.10	2.09	8.34
	BYCOC9-Bayou Cocodrie-At Pump #2	0.05	8.21	1.0	0.10	1.96	8.21
	BYCOC10-Bayou Cocodrie-Below Plouden Bayou	0.10	9.91	11.5	0.09	2.25	0.86
	BYCOC11-Bayou Cocodrie-Below Plouden Bayou	0.10	10.40	10	0.13	2.52	1.04
	BYCOC12-Bayou Cocodrie-Below Wyches Bayou	0.06	7.46	9.6	0.10	2.07	0.78
	BYCOC14-Bayou Cocodrie-Below Wallace Bayou	0.05	6.64	8.6	0.09	1.79	0.77
	BYCOC18-Bayou Cocodrie-Southwest of Weir (Upstream)	0.07	7.10	8.5	0.09	2.22	0.84
	BYCOC19-Bayou Cocodrie-AT WQN Site 1228 @ Wild Cow Bayou Road Bridge	*	*	*	*	*	*
	BYCOC19-Bayou Cocodrie-AT WQN Site 1228 @ Wild Cow Bayou Road Bridge	0.06	7.25	1.0	0.09	1.94	7.25
	BYCOC19-Bayou Cocodrie-AT WQN Site 1228 @ Wild Cow Bayou Road Bridge	0.07	7.23	1.0	0.09	1.91	7.23
	BCC2-Bayou Cross Cocodrie-Upstream from Bayou Cocodrie	0.08	7.83	11.5	0.10	2.52	0.68
	FLB1-Flat Bayou-Upstream from Bayou Cocodrie	0.07	6.56	10.9	0.10	1.98	0.60
	VC1-Vidalia Canal-Upstream from Bayou Cocodrie	0.07	7.43	11.0	0.09	1.80	0.68
	WABY1-Wallace Bayou-Upstream from Bayou Cocodrie	0.05	6.47	10.9	0.07	1.61	0.59
101601	LCO1-Lake Concordia-at Bayou Cocodrie	0.10	18.18	11.80	0.09	4.53	1.54
	BYCOC1-Bayou Cocodrie-at Fisherman Road	0.08	12.46	8.80	0.07	3.61	1.42
	BYCOC2-Bayou Cocodrie-at Fisherman Road	0.09	10.60	8.70	0.08	3.56	1.22
	BYCOC3-Bayou Cocodrie-at upstream side of LA Hwy 15	0.08	8.53	8.20	0.09	3.83	1.04
	BYCOC4-Bayou Cocodrie-at downstream side of LA Hwy 15	0.08	8.50	8.00	0.09	3.75	1.06
	BYCOC17-Bayou Cocodrie-at confluence with Wild Cow Bayou below Weir	0.09	10.06	9.20	0.06	3.54	1.09
	BYCOC21-Bayou Cocodrie-Below Unnamed Canal	0.08	8.65	8.60	0.09	3.22	1.01
	BYCOC22-Bayou Cocodrie-At Yakey Road	0.08	9.02	8.80	0.07	3.58	1.02
	BYCOC26-Bayou Cocodrie-Below Dobbs Bay	0.04	6.40	8.50	0.08	1.81	0.75
	BYCOC28-Bayou Cocodrie-Upstream of flood gates	0.07	7.49	8.30	0.05	2.22	0.90
	UNT1-Unnamed Trib-Just above mixing zone with Bayou Cocodrie	0.07	7.68	8.30	0.06	2.85	0.93
	GBC1-Grand Bayou Cutoff-Just above mixing zone with Bayou Cocodrie	0.60	7.24	11.20	0.04	1.05	0.65

Table B.3. CBODu, NBODu, and TOC from LDEQ Surveys

Subseg. Number	Sample ID	CBOD decay rate	CBODu (mg/L)	Initial TOC (mg/l)	NBOD decay rate	NBODu (mg/L)	Ratio CBODu / TOC
101601 (cont.)	COL1-Cocodrie Lake-North of Worringer Bayou	*	*	*	*	*	*
	COL1-Cocodrie Lake-North of Worringer Bayou	0.09	12.73	10.40	0.09	3.18	1.22
	COL1-Cocodrie Lake-North of Worringer Bayou	0.09	12.96	10.90	0.09	3.26	1.19
	COL2-Cocodrie Lake-Near boat launch on Hwy 565	0.09	11.53	11.60	0.09	3.02	0.99
	COL3-Cocodrie Lake-At confluence with Bayou Cross Cocodrie	0.09	12.13	11.90	0.07	3.41	1.02
	COL4-Cocodrie Lake-Midway between Bayou Cross Cocodrie and SE end of Lake	0.09	13.25	11.90	0.09	3.64	1.11
	COL5-Cocodrie Lake-At SE end of Lake	0.10	14.70	12.30	0.09	3.94	1.19
	BCC1-Bayou Cross Cocodrie-Just above confluence with Cocodrie Lake	0.09	13.86	11.20	0.11	3.61	1.24
	WBY1-Worringer Bayou-0.5 miles south of confluence with Cocodrie Lake	0.10	8.87	8.90	0.10	2.27	1.00
	COL2-Cocodrie Lake-Near boat launch on Hwy 565	*	*	*	*	*	*
	COL2-Cocodrie Lake-Near boat launch on Hwy 565	0.09	14.48	*	0.10	3.44	*
	COL2-Cocodrie Lake-Near boat launch on Hwy 565	0.09	14.47	*	0.10	3.38	*
	COL4-Cocodrie Lake-Midway between Bayou Cross Cocodrie and SE end of Lake	0.08	13.34	*	0.09	3.48	*
	Count	79	79	77	79	79	76
	Min	0.04	2.25	1.00	0.03	0.93	0.59
	Average	0.09	9.62	7.19	0.09	2.52	1.95
	Median	0.08	8.35	7.70	0.09	2.09	1.21
	Max	0.60	42.65	15.10	0.25	12.62	8.60

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Table B.3. CBODu, NBODu, and TOC from LDEQ Surveys

APPENDIX C

Model Diagram

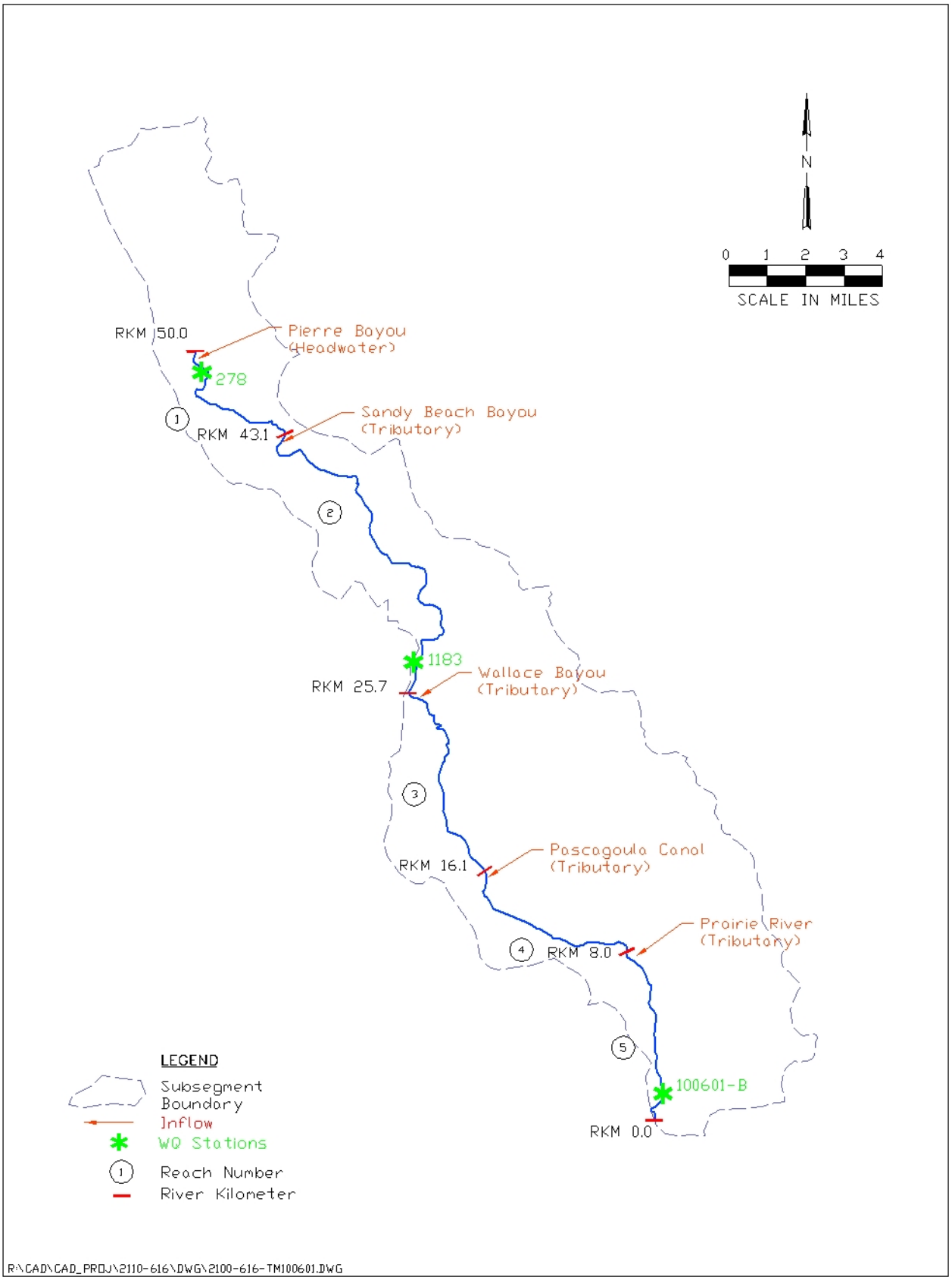


Figure C.1. Map of LA-QUAL model.

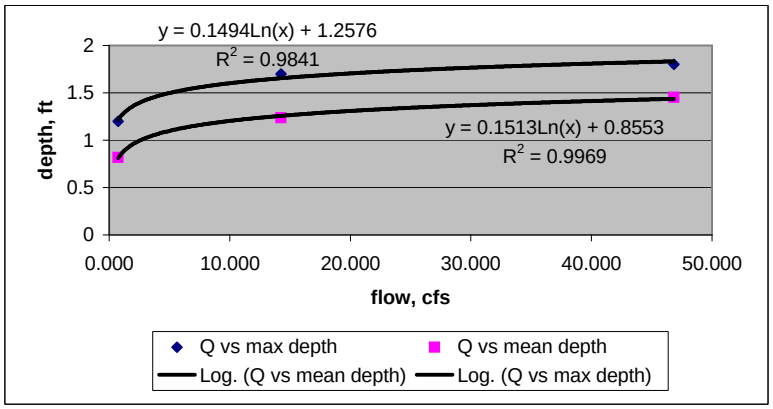
APPENDIX D

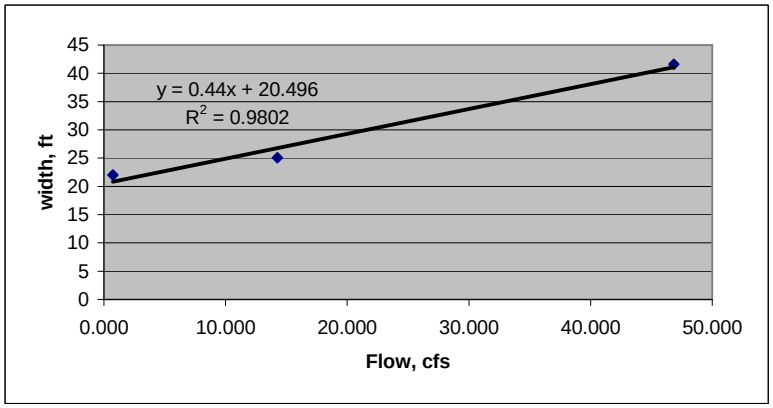
Data and Calculations for Hydraulic Coefficients

Site	Mile from headwater	width	depth	mean depth	flow, cfs		ratio	ratio 2
100601-B	34	41.6	1.8	1.452	46.852	downstream Wallace Bayou confluence	0.043269	0.034902
1183	18	25.1	1.7	1.23705179	14.25	natural channel	0.067729	0.049285
278	4.5	22	1.2	0.81590909	0.74	concreted channel	0.054545	0.037087
100601-A		33	2.9	1.65757576		Wallace Bayou	0.087879	0.05023
						avg Pierre	0.055499	0.042093

Flow Balance

Site	Description	Flow, cfs	Cummulative	Reach	Trib	Pt Source	mile from d	km	element
278	concrete channel	0.74	0.74	1			30.3	48.76312	
	Sandy Beach Bayou	13.50	13.50	1		1	26.8	43.13042	68.69581
1183	Bayou Pierre @ Ellerbee		14.25	2			17	27.35885	
100601-A	Wallace Bayou	15.63	15.63	3		2			
	Bayou Pierre @ Wallace		29.87	3			16	25.7495	242.505
	Pascagoula Canal	6.79	36.66	3		3	10	16.09344	339.0656
	Prairie R	10.19	46.85	3		4	5	8.04672	419.5328
100601-B	Bayou Pierre d/s end		46.85	3			1	1.609344	





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APPENDIX E

Calibration Model Input File

```
CNTROL01     LA-QUAL Calib for Bayou Pierre (100601)
CNTROL02     Calibration for FTN Run 42
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  MAXIMUM ITERATION LIMIT            =   200
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BP Bayou Pierre Shreveport               50.0      43.1    0.1000
REACH ID    2  BP Bayou Pierre u/s Wallace              43.1      25.7    0.1000
REACH ID    3  BP Bayou Pierre u/s Pascagoula           25.7      16.1    0.1000
REACH ID    4  BP Bayou Pierre u/s Prairie              16.1       8.0    0.1000
REACH ID    5  BP Bayou Pierre d/s Prairie               8.0       0.0    0.1000
ENDATA08
HYDR-1      1     6.71  0.000   0.00  0.249  0.000  0.000  0.0000
HYDR-1      2     7.65  0.000   0.00  0.377  0.000  0.000  0.0000
HYDR-1      3    10.25  0.000   0.00  0.417  0.000  0.000  0.0000
HYDR-1      4    11.16  0.000   0.00  0.427  0.000  0.000  0.0000
HYDR-1      5    12.53  0.000   0.00  0.438  0.000  0.000  0.0000
ENDATA09
ENDATA10
INITIAL     1      31.0            6.75    0.00                    0.00    0.00
INITIAL     2      25.0            3.65    0.00                    0.00    0.00
INITIAL     3      27.3            4.79    0.00                    0.00    0.00
INITIAL     4      26.9            4.83    0.00                    0.00    0.00
INITIAL     5      26.6            4.87    0.00                    0.00    0.00
ENDATA11
COEFF-1     1     15  0.00 0.00   0.00  0.500   0.04
COEFF-1     2     15  0.00 0.00   0.00  7.500   0.39
COEFF-1     3     15  0.00 0.00   0.00  7.500   0.22
COEFF-1     4     15  0.00 0.00   0.00  8.500   0.22
COEFF-1     5     15  0.00 0.00   0.00  9.300   0.22
ENDATA12
COEFF-2     1     0.02                 0.09  0.000
COEFF-2     2     0.02                 0.09  0.010
COEFF-2     3     0.02                 0.09  0.000
COEFF-2     4     0.02                 0.09  0.000
COEFF-2     5     0.02                 0.09  0.000
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
```

```
NONPOINT    1          9      0.5
NONPOINT    2          0       32
NONPOINT    3          0       12
NONPOINT    4          0       12
NONPOINT    5          0       12
ENDATA19
HDWTR-1     1  Bayou Pierre              0.02101    31.0             0.0     0.0
ENDATA20
HDWTR-2     1        6.8    13.79     1.27     0.13     0.03
ENDATA21
ENDATA22
ENDATA23
WSTLD-1    68  Sandy Beach Bayou   0.38236   31.0             0.0     0.0
WSTLD-1   242  Wallace Bayou       0.44240   29.5             0.0     0.0
WSTLD-1   339  Pascagoula Canal    0.19230   26.9             0.0     0.0
WSTLD-1   419  Prairie River       0.28845   26.6             0.0     0.0
ENDATA24
WSTLD-2    68        6.8    13.79  0.0     1.27     0.13  0.0     0.03
WSTLD-2   242        5.9     8.66  0.0     1.65     0.05  0.0     0.06
WSTLD-2   339        4.8     7.33  0.0     1.79     0.11  0.0     0.17
WSTLD-2   419        4.9     7.33  0.0     1.79     0.11  0.0     0.17
ENDATA25
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30
OVERLAY 1 Pierre.OVL                      :Bayou Pierre Calibration
ENDATA31
```

APPENDIX F

Literature Values for Mineralization Rates

TABLE 5-3. RATE COEFFICIENTS FOR NITROGEN TRANSFORMATIONS

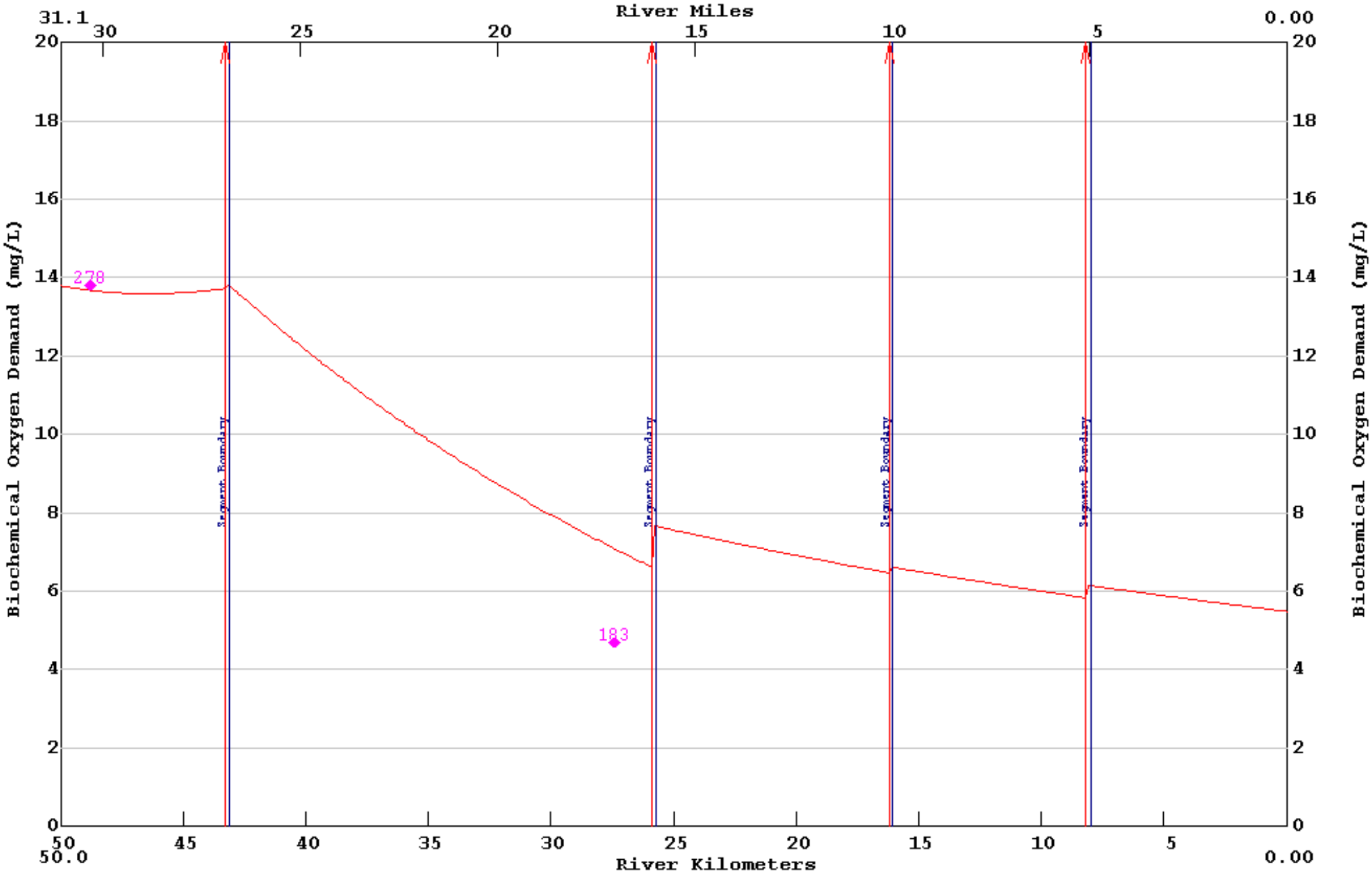
PON → DON		DON → NH_3		PON → NH_3		NH_3 → NO_2		NH_3 → NO_3		NO_2 → NO_3		SEDM → NH_3		References
K	θ	K	θ	K	θ	K	θ	K	θ	K	θ	K	θ	
								Calibration Values						
				0.035	(linear)			0.04	(linear)					Thomann et al. (1975)
				0.03**	1.08									Thomann et al. (1979)
				0.03***	1.08			0.12***	1.08			0.0025	1.08	Di Toro & Connolly (1980)
				0.03***	1.08			0.20	1.08					Di Toro & Matystik (1980)
				0.075	1.08			0.09-0.13***	1.08			0.0004	1.08	Thomann & Fitzpatrick (1982)
								0.025***	1.08					O'Connor et al. (1981)
				0.14	(linear)									Salas & Thomann (1978)
				0.001	1.02	0.003-0.03	1.02			0.09	1.02	0.001	1.02	Chen & Orlob (1972, 1975)
0.020	(linear)	0.020	(linear)					0.060	(linear)					Scavia et al. (1976)
0.020	(linear)	0.020	(linear)					0.1	(linear)					Scavia (1980)
0.02	1.020	0.02	1.020					0.1	1.020					Bowie et al. (1980)
0.02	(linear)	0.024	(linear)					0.16	(linear)					Canale et al. (1976)
				0.003	1.020	0.02	1.047			0.25	1.047	0.0015	1.047	Tetra Tech (1980)
				0.1	1.047	0.02	1.047			0.25	1.047	0.0015	1.047	Porcella et al. (1983)
				0.01**	NI							0.95-1.8***	1.14	Nyholm (1978)
				0.005**	1.08									Bierman et al. (1980)
				0.1**	1.02									Jorgensen (1976)
				0.2**	1.072									Jorgensen et al. (1978)

(continued)

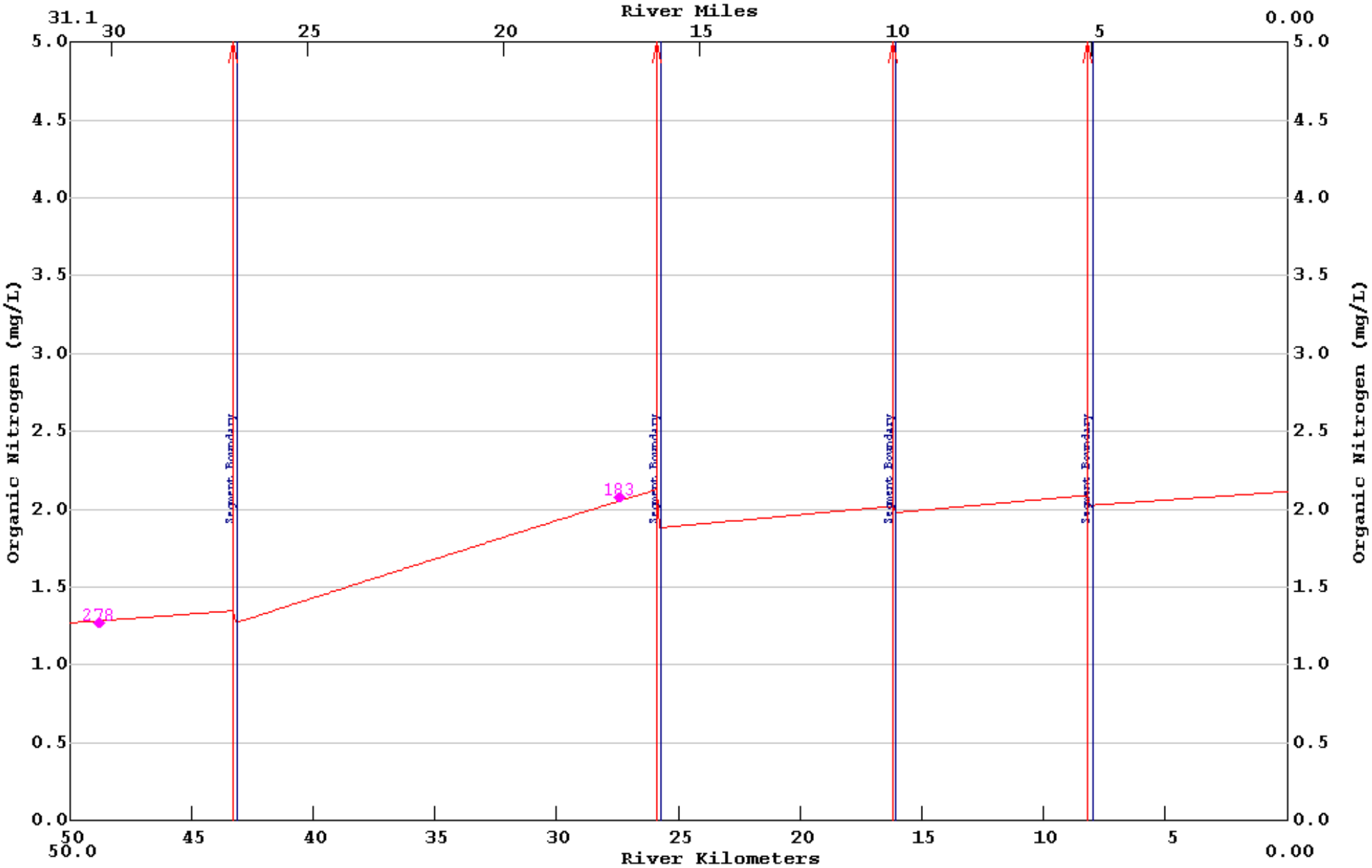
APPENDIX G

Plots of Predicted and Observed Water Quality

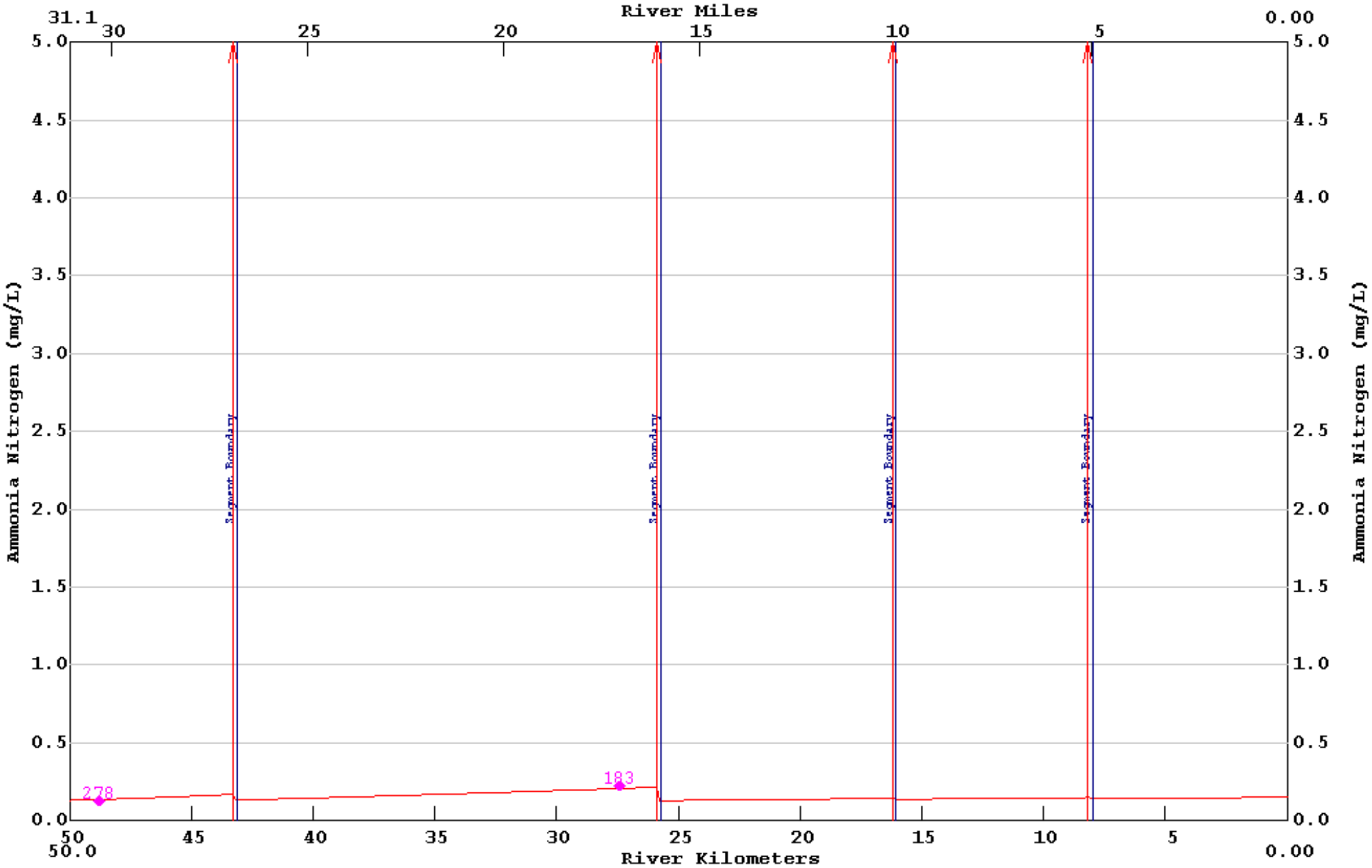
LA-QUAL Version 8.11 Run at 08:54 on 09/20/2007 File D:\comp_models\LA-QUAL_8p11\Pierre revised SOD calibration.txt
Calibration for FTN Run 42
Bayou Pierre Calibration



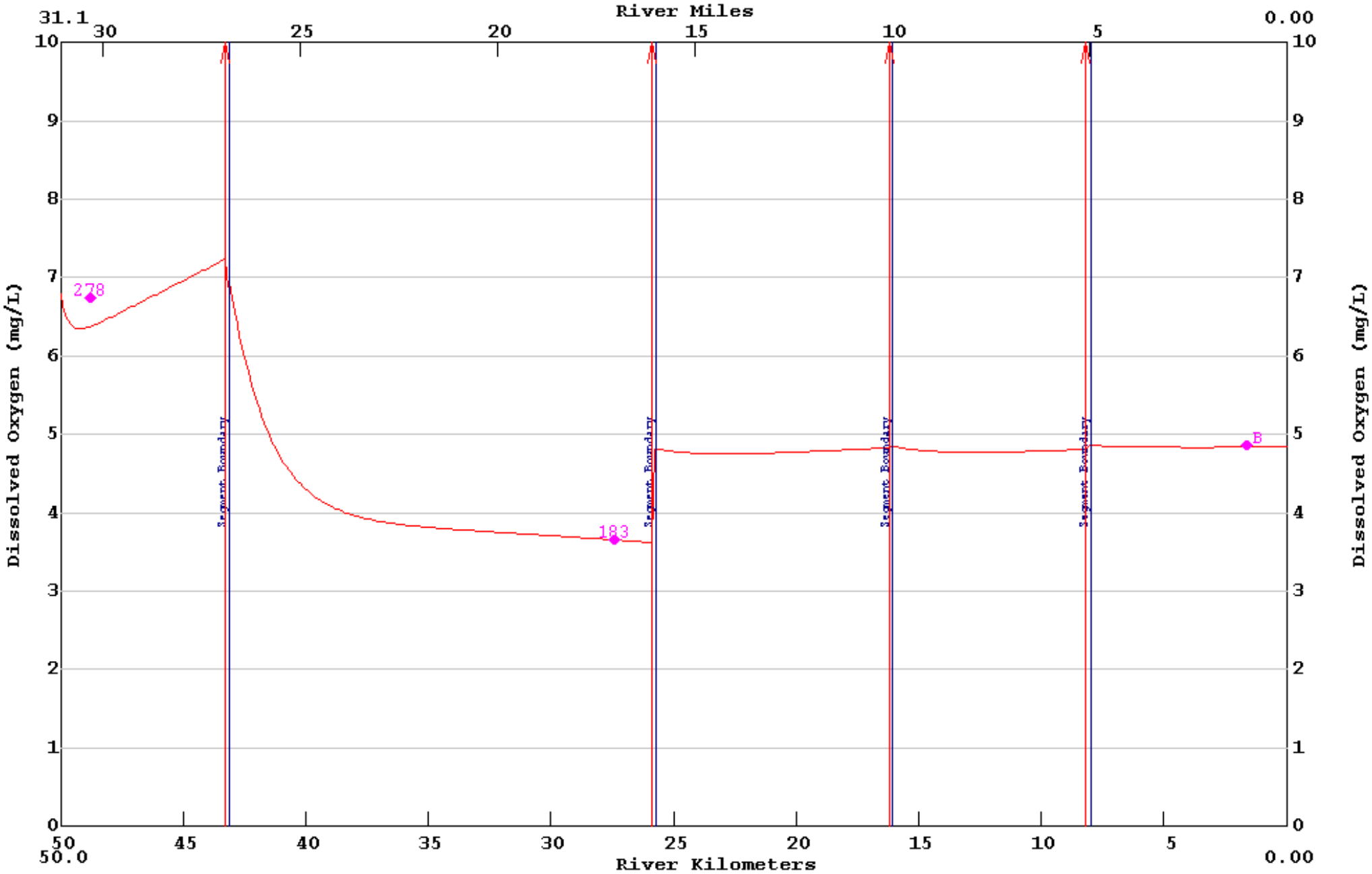
LA-QUAL Version 8.11 Run at 08:54 on 09/20/2007 File D:\comp_models\LA-QUAL_8p11\Pierre revised SOD calibration.txt
Calibration for FTN Run 42
Bayou Pierre Calibration



LA-QUAL Version 8.11 Run at 08:54 on 09/20/2007 File D:\comp_models\LA-QUAL_8p11\Pierre revised SOD calibration.txt
Calibration for FTN Run 42
Bayou Pierre Calibration



LA-QUAL Version 8.11 Run at 08:54 on 09/20/2007 File D:\comp_models\LA-QUAL_8p11\Pierre revised SOD calibration.txt
Calibration for FTN Run 42
Bayou Pierre Calibration



APPENDIX H

Printout of Model Output for Calibration

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

Input file is D:\comp_models\LA-QUAL_8p11\Pierre revised SOD calibration.txt
Output produced at 08:38 on 09/20/2007

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL Calib for Bayou Pierre (100601)
TITLE02         Calibration for FTN Run 42
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         MAXIMUM ITERATION LIMIT            =       200.00000
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

```
CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                        BEGIN        END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                              REACH       REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                           km          km       km       km               NUM    NUM

REACH ID      1   BP  Bayou Pierre Shreveport           50.00  TO   43.10   0.1000     6.90      69        1     69
REACH ID      2   BP  Bayou Pierre u/s Wallace          43.10  TO   25.70   0.1000    17.40     174       70    243
REACH ID      3   BP  Bayou Pierre u/s Pascagoula       25.70  TO   16.10   0.1000     9.60      96      244    339
REACH ID      4   BP  Bayou Pierre u/s Prairie          16.10  TO    8.00   0.1000     8.10      81      340    420
REACH ID      5   BP  Bayou Pierre d/s Prairie           8.00  TO    0.00   0.1000     8.00      80      421    500
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   BP       6.710       0.000       0.000       0.249       0.000       0.000     0.00000   0.000
HYDR-1        2   BP       7.650       0.000       0.000       0.377       0.000       0.000     0.00000   0.000
HYDR-1        3   BP      10.250       0.000       0.000       0.417       0.000       0.000     0.00000   0.000
HYDR-1        4   BP      11.160       0.000       0.000       0.427       0.000       0.000     0.00000   0.000
HYDR-1        5   BP      12.530       0.000       0.000       0.438       0.000       0.000     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   BP       31.00      0.00      6.75      0.00      0.00      0.00      0.00      0.00
```

```
INITIAL           2   BP       25.00      0.00      3.65      0.00      0.00      0.00      0.00      0.00
INITIAL           3   BP       27.30      0.00      4.79      0.00      0.00      0.00      0.00      0.00
INITIAL           4   BP       26.90      0.00      4.83      0.00      0.00      0.00      0.00      0.00
INITIAL           5   BP       26.60      0.00      4.87      0.00      0.00      0.00      0.00      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   BP  15 LOUISIANA        0.000     0.000     0.000     0.500     0.040     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    2   BP  15 LOUISIANA        0.000     0.000     0.000     7.500     0.390     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    3   BP  15 LOUISIANA        0.000     0.000     0.000     7.500     0.220     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    4   BP  15 LOUISIANA        0.000     0.000     0.000     8.500     0.220     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    5   BP  15 LOUISIANA        0.000     0.000     0.000     9.300     0.220     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   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          2   BP       0.020     0.000     0.000       0.090     0.010     0.000     0.000
COEFF-2          3   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          4   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          5   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
ENDATA13

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

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

ENDATA14

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

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

```
ENDATA15

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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT          1   BP        9.00      0.50      0.00      0.00      0.00      0.00
NONPOINT          2   BP        0.00     32.00      0.00      0.00      0.00      0.00
NONPOINT          3   BP        0.00     12.00      0.00      0.00      0.00      0.00
NONPOINT          4   BP        0.00     12.00      0.00      0.00      0.00      0.00
NONPOINT          5   BP        0.00     12.00      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     Bayou Pierre            0   0.02101    0.742   31.00     0.00     0.000     0.000   0.00
ENDATA20

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

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

HDWTR-2           1     Bayou Pierre              6.80     13.79      1.27      0.13      0.03      0.00
ENDATA21

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

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

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m^3/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I	CM-II
WSTLD-1	68	43.30	Sandy Beach Bayou	0.38236	13.50141	8.727	31.00	0.00	0.000	0.000
WSTLD-1	242	25.90	Wallace Bayou	0.44240	15.62147	10.098	29.50	0.00	0.000	0.000
WSTLD-1	339	16.20	Pascagoula Canal	0.19230	6.79025	4.389	26.90	0.00	0.000	0.000
WSTLD-1	419	8.20	Prairie River	0.28845	10.18538	6.584	26.60	0.00	0.000	0.000

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	68	Sandy Beach Bayou	6.80	13.79	0.00	1.27	0.13	0.00	0.03	0.00
WSTLD-2	242	Wallace Bayou	5.90	8.66	0.00	1.65	0.05	0.00	0.06	0.00
WSTLD-2	339	Pascagoula Canal	4.80	7.33	0.00	1.79	0.11	0.00	0.17	0.00
WSTLD-2	419	Prairie River	4.90	7.33	0.00	1.79	0.11	0.00	0.17	0.00

ENDATA25

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

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

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 =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

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


OVERLAY 1 Pierre.OVL                      :Bayou Pierre Calibration
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   5 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
```

SPECIAL REPORT: Bayou Pierre
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO **	COLI #/100mL	NCM *
1	49.900	30.91	0.0	0.0	0.0	6.64	13.78	0.00	13.78	0.00	1.27	0.13	0.03	1.43	0.00	0.0	0.0	0.	0.00
2	49.800	30.83	0.0	0.0	0.0	6.53	13.77	0.00	13.77	0.00	1.27	0.13	0.03	1.44	0.00	0.0	0.0	0.	0.00
3	49.700	30.74	0.0	0.0	0.0	6.46	13.76	0.00	13.76	0.00	1.27	0.13	0.04	1.44	0.00	0.0	0.0	0.	0.00
4	49.600	30.65	0.0	0.0	0.0	6.41	13.74	0.00	13.74	0.00	1.27	0.13	0.04	1.45	0.00	0.0	0.0	0.	0.00
5	49.500	30.57	0.0	0.0	0.0	6.38	13.73	0.00	13.73	0.00	1.28	0.13	0.04	1.45	0.00	0.0	0.0	0.	0.00
6	49.400	30.48	0.0	0.0	0.0	6.36	13.72	0.00	13.72	0.00	1.28	0.13	0.04	1.45	0.00	0.0	0.0	0.	0.00
7	49.300	30.39	0.0	0.0	0.0	6.35	13.72	0.00	13.72	0.00	1.28	0.13	0.05	1.46	0.00	0.0	0.0	0.	0.00
8	49.200	30.30	0.0	0.0	0.0	6.34	13.71	0.00	13.71	0.00	1.28	0.13	0.05	1.46	0.00	0.0	0.0	0.	0.00
9	49.100	30.22	0.0	0.0	0.0	6.35	13.70	0.00	13.70	0.00	1.28	0.13	0.05	1.47	0.00	0.0	0.0	0.	0.00
10	49.000	30.13	0.0	0.0	0.0	6.35	13.69	0.00	13.69	0.00	1.28	0.13	0.05	1.47	0.00	0.0	0.0	0.	0.00
11	48.900	30.04	0.0	0.0	0.0	6.36	13.68	0.00	13.68	0.00	1.28	0.13	0.06	1.47	0.00	0.0	0.0	0.	0.00
12	48.800	29.96	0.0	0.0	0.0	6.37	13.67	0.00	13.67	0.00	1.28	0.14	0.06	1.48	0.00	0.0	0.0	0.	0.00
13	48.700	29.87	0.0	0.0	0.0	6.39	13.67	0.00	13.67	0.00	1.28	0.14	0.06	1.48	0.00	0.0	0.0	0.	0.00
14	48.600	29.78	0.0	0.0	0.0	6.40	13.66	0.00	13.66	0.00	1.29	0.14	0.06	1.49	0.00	0.0	0.0	0.	0.00
15	48.500	29.70	0.0	0.0	0.0	6.41	13.65	0.00	13.65	0.00	1.29	0.14	0.07	1.49	0.00	0.0	0.0	0.	0.00
16	48.400	29.61	0.0	0.0	0.0	6.43	13.65	0.00	13.65	0.00	1.29	0.14	0.07	1.49	0.00	0.0	0.0	0.	0.00
17	48.300	29.52	0.0	0.0	0.0	6.44	13.64	0.00	13.64	0.00	1.29	0.14	0.07	1.50	0.00	0.0	0.0	0.	0.00
18	48.200	29.43	0.0	0.0	0.0	6.46	13.63	0.00	13.63	0.00	1.29	0.14	0.07	1.50	0.00	0.0	0.0	0.	0.00

19	48.100	29.35	0.0	0.0	0.0	6.47	13.63	0.00	13.63	0.00	1.29	0.14	0.08	1.51	0.00	0.0	0.0	0.	0.00
20	48.000	29.26	0.0	0.0	0.0	6.49	13.62	0.00	13.62	0.00	1.29	0.14	0.08	1.51	0.00	0.0	0.0	0.	0.00
21	47.900	29.17	0.0	0.0	0.0	6.50	13.62	0.00	13.62	0.00	1.29	0.14	0.08	1.51	0.00	0.0	0.0	0.	0.00
22	47.800	29.09	0.0	0.0	0.0	6.52	13.62	0.00	13.62	0.00	1.29	0.14	0.08	1.52	0.00	0.0	0.0	0.	0.00
23	47.700	29.00	0.0	0.0	0.0	6.53	13.61	0.00	13.61	0.00	1.30	0.14	0.09	1.52	0.00	0.0	0.0	0.	0.00
24	47.600	28.91	0.0	0.0	0.0	6.55	13.61	0.00	13.61	0.00	1.30	0.14	0.09	1.53	0.00	0.0	0.0	0.	0.00
25	47.500	28.83	0.0	0.0	0.0	6.56	13.60	0.00	13.60	0.00	1.30	0.14	0.09	1.53	0.00	0.0	0.0	0.	0.00
26	47.400	28.74	0.0	0.0	0.0	6.58	13.60	0.00	13.60	0.00	1.30	0.14	0.09	1.53	0.00	0.0	0.0	0.	0.00
27	47.300	28.65	0.0	0.0	0.0	6.60	13.60	0.00	13.60	0.00	1.30	0.14	0.09	1.54	0.00	0.0	0.0	0.	0.00
28	47.200	28.57	0.0	0.0	0.0	6.61	13.60	0.00	13.60	0.00	1.30	0.14	0.10	1.54	0.00	0.0	0.0	0.	0.00
29	47.100	28.48	0.0	0.0	0.0	6.63	13.59	0.00	13.59	0.00	1.30	0.14	0.10	1.55	0.00	0.0	0.0	0.	0.00
30	47.000	28.39	0.0	0.0	0.0	6.64	13.59	0.00	13.59	0.00	1.30	0.15	0.10	1.55	0.00	0.0	0.0	0.	0.00
31	46.900	28.30	0.0	0.0	0.0	6.66	13.59	0.00	13.59	0.00	1.30	0.15	0.10	1.55	0.00	0.0	0.0	0.	0.00
32	46.800	28.22	0.0	0.0	0.0	6.67	13.59	0.00	13.59	0.00	1.31	0.15	0.11	1.56	0.00	0.0	0.0	0.	0.00
33	46.700	28.13	0.0	0.0	0.0	6.69	13.59	0.00	13.59	0.00	1.31	0.15	0.11	1.56	0.00	0.0	0.0	0.	0.00
34	46.600	28.04	0.0	0.0	0.0	6.71	13.59	0.00	13.59	0.00	1.31	0.15	0.11	1.57	0.00	0.0	0.0	0.	0.00
35	46.500	27.96	0.0	0.0	0.0	6.72	13.59	0.00	13.59	0.00	1.31	0.15	0.11	1.57	0.00	0.0	0.0	0.	0.00
36	46.400	27.87	0.0	0.0	0.0	6.74	13.59	0.00	13.59	0.00	1.31	0.15	0.11	1.57	0.00	0.0	0.0	0.	0.00
37	46.300	27.78	0.0	0.0	0.0	6.75	13.59	0.00	13.59	0.00	1.31	0.15	0.12	1.58	0.00	0.0	0.0	0.	0.00
38	46.200	27.70	0.0	0.0	0.0	6.77	13.59	0.00	13.59	0.00	1.31	0.15	0.12	1.58	0.00	0.0	0.0	0.	0.00
39	46.100	27.61	0.0	0.0	0.0	6.78	13.59	0.00	13.59	0.00	1.31	0.15	0.12	1.59	0.00	0.0	0.0	0.	0.00
40	46.000	27.52	0.0	0.0	0.0	6.80	13.59	0.00	13.59	0.00	1.32	0.15	0.12	1.59	0.00	0.0	0.0	0.	0.00
41	45.900	27.43	0.0	0.0	0.0	6.82	13.59	0.00	13.59	0.00	1.32	0.15	0.13	1.59	0.00	0.0	0.0	0.	0.00
42	45.800	27.35	0.0	0.0	0.0	6.83	13.60	0.00	13.60	0.00	1.32	0.15	0.13	1.60	0.00	0.0	0.0	0.	0.00
43	45.700	27.26	0.0	0.0	0.0	6.85	13.60	0.00	13.60	0.00	1.32	0.15	0.13	1.60	0.00	0.0	0.0	0.	0.00
44	45.600	27.17	0.0	0.0	0.0	6.86	13.60	0.00	13.60	0.00	1.32	0.15	0.13	1.61	0.00	0.0	0.0	0.	0.00
45	45.500	27.09	0.0	0.0	0.0	6.88	13.60	0.00	13.60	0.00	1.32	0.15	0.13	1.61	0.00	0.0	0.0	0.	0.00
46	45.400	27.00	0.0	0.0	0.0	6.90	13.60	0.00	13.60	0.00	1.32	0.15	0.14	1.61	0.00	0.0	0.0	0.	0.00
47	45.300	26.91	0.0	0.0	0.0	6.91	13.61	0.00	13.61	0.00	1.32	0.16	0.14	1.62	0.00	0.0	0.0	0.	0.00
48	45.200	26.83	0.0	0.0	0.0	6.93	13.61	0.00	13.61	0.00	1.32	0.16	0.14	1.62	0.00	0.0	0.0	0.	0.00
49	45.100	26.74	0.0	0.0	0.0	6.94	13.61	0.00	13.61	0.00	1.33	0.16	0.14	1.63	0.00	0.0	0.0	0.	0.00
50	45.000	26.65	0.0	0.0	0.0	6.96	13.62	0.00	13.62	0.00	1.33	0.16	0.14	1.63	0.00	0.0	0.0	0.	0.00
51	44.900	26.57	0.0	0.0	0.0	6.98	13.62	0.00	13.62	0.00	1.33	0.16	0.15	1.63	0.00	0.0	0.0	0.	0.00
52	44.800	26.48	0.0	0.0	0.0	6.99	13.63	0.00	13.63	0.00	1.33	0.16	0.15	1.64	0.00	0.0	0.0	0.	0.00
53	44.700	26.39	0.0	0.0	0.0	7.01	13.63	0.00	13.63	0.00	1.33	0.16	0.15	1.64	0.00	0.0	0.0	0.	0.00
54	44.600	26.30	0.0	0.0	0.0	7.02	13.64	0.00	13.64	0.00	1.33	0.16	0.15	1.65	0.00	0.0	0.0	0.	0.00
55	44.500	26.22	0.0	0.0	0.0	7.04	13.64	0.00	13.64	0.00	1.33	0.16	0.16	1.65	0.00	0.0	0.0	0.	0.00
56	44.400	26.13	0.0	0.0	0.0	7.06	13.65	0.00	13.65	0.00	1.33	0.16	0.16	1.65	0.00	0.0	0.0	0.	0.00
57	44.300	26.04	0.0	0.0	0.0	7.07	13.65	0.00	13.65	0.00	1.34	0.16	0.16	1.66	0.00	0.0	0.0	0.	0.00
58	44.200	25.96	0.0	0.0	0.0	7.09	13.66	0.00	13.66	0.00	1.34	0.16	0.16	1.66	0.00	0.0	0.0	0.	0.00
59	44.100	25.87	0.0	0.0	0.0	7.10	13.66	0.00	13.66	0.00	1.34	0.16	0.16	1.67	0.00	0.0	0.0	0.	0.00
60	44.000	25.78	0.0	0.0	0.0	7.12	13.67	0.00	13.67	0.00	1.34	0.16	0.17	1.67	0.00	0.0	0.0	0.	0.00
61	43.900	25.70	0.0	0.0	0.0	7.14	13.68	0.00	13.68	0.00	1.34	0.16	0.17	1.67	0.00	0.0	0.0	0.	0.00
62	43.800	25.61	0.0	0.0	0.0	7.15	13.68	0.00	13.68	0.00	1.34	0.17	0.17	1.68	0.00	0.0	0.0	0.	0.00
63	43.700	25.52	0.0	0.0	0.0	7.17	13.69	0.00	13.69	0.00	1.34	0.17	0.17	1.68	0.00	0.0	0.0	0.	0.00
64	43.600	25.43	0.0	0.0	0.0	7.19	13.70	0.00	13.70	0.00	1.34	0.17	0.17	1.69	0.00	0.0	0.0	0.	0.00
65	43.500	25.35	0.0	0.0	0.0	7.20	13.70	0.00	13.70	0.00	1.35	0.17	0.18	1.69	0.00	0.0	0.0	0.	0.00
66	43.400	25.26	0.0	0.0	0.0	7.22	13.71	0.00	13.71	0.00	1.35	0.17	0.18	1.69	0.00	0.0	0.0	0.	0.00
67	43.300	25.17	0.0	0.0	0.0	7.23	13.72	0.00	13.72	0.00	1.35	0.17	0.18	1.70	0.00	0.0	0.0	0.	0.00
68	43.200	25.09	0.0	0.0	0.0	6.88	13.79	0.00	13.79	0.00	1.27	0.13	0.04	1.44	0.00	0.0	0.0	0.	0.00
69	43.100	25.00	0.0	0.0	0.0	6.93	13.79	0.00	13.79	0.00	1.27	0.13	0.04	1.44	0.00	0.0	0.0	0.	0.00
70	43.000	25.01	0.0	0.0	0.0	6.75	13.73	0.00	13.73	0.00	1.28	0.13	0.04	1.45	0.00	0.0	0.0	0.	0.00

71	42.900	25.03	0.0	0.0	0.0	6.57	13.68	0.00	13.68	0.00	1.28	0.13	0.04	1.46	0.00	0.0	0.0	0.	0.00
72	42.800	25.04	0.0	0.0	0.0	6.41	13.62	0.00	13.62	0.00	1.29	0.13	0.04	1.46	0.00	0.0	0.0	0.	0.00
73	42.700	25.05	0.0	0.0	0.0	6.26	13.57	0.00	13.57	0.00	1.29	0.13	0.04	1.47	0.00	0.0	0.0	0.	0.00
74	42.600	25.07	0.0	0.0	0.0	6.11	13.51	0.00	13.51	0.00	1.30	0.13	0.04	1.47	0.00	0.0	0.0	0.	0.00
75	42.500	25.08	0.0	0.0	0.0	5.98	13.46	0.00	13.46	0.00	1.30	0.13	0.04	1.48	0.00	0.0	0.0	0.	0.00
76	42.400	25.09	0.0	0.0	0.0	5.85	13.40	0.00	13.40	0.00	1.31	0.14	0.04	1.48	0.00	0.0	0.0	0.	0.00
77	42.300	25.11	0.0	0.0	0.0	5.73	13.35	0.00	13.35	0.00	1.31	0.14	0.04	1.49	0.00	0.0	0.0	0.	0.00
78	42.200	25.12	0.0	0.0	0.0	5.62	13.29	0.00	13.29	0.00	1.32	0.14	0.04	1.49	0.00	0.0	0.0	0.	0.00
79	42.100	25.13	0.0	0.0	0.0	5.51	13.24	0.00	13.24	0.00	1.32	0.14	0.04	1.50	0.00	0.0	0.0	0.	0.00
80	42.000	25.15	0.0	0.0	0.0	5.41	13.18	0.00	13.18	0.00	1.33	0.14	0.04	1.51	0.00	0.0	0.0	0.	0.00
81	41.900	25.16	0.0	0.0	0.0	5.32	13.13	0.00	13.13	0.00	1.33	0.14	0.04	1.51	0.00	0.0	0.0	0.	0.00
82	41.800	25.17	0.0	0.0	0.0	5.23	13.08	0.00	13.08	0.00	1.34	0.14	0.04	1.52	0.00	0.0	0.0	0.	0.00
83	41.700	25.19	0.0	0.0	0.0	5.15	13.02	0.00	13.02	0.00	1.34	0.14	0.04	1.52	0.00	0.0	0.0	0.	0.00
84	41.600	25.20	0.0	0.0	0.0	5.07	12.97	0.00	12.97	0.00	1.35	0.14	0.04	1.53	0.00	0.0	0.0	0.	0.00
85	41.500	25.21	0.0	0.0	0.0	5.00	12.92	0.00	12.92	0.00	1.35	0.14	0.04	1.53	0.00	0.0	0.0	0.	0.00
86	41.400	25.22	0.0	0.0	0.0	4.93	12.86	0.00	12.86	0.00	1.36	0.14	0.04	1.54	0.00	0.0	0.0	0.	0.00
87	41.300	25.24	0.0	0.0	0.0	4.86	12.81	0.00	12.81	0.00	1.36	0.14	0.04	1.55	0.00	0.0	0.0	0.	0.00
88	41.200	25.25	0.0	0.0	0.0	4.80	12.76	0.00	12.76	0.00	1.37	0.14	0.04	1.55	0.00	0.0	0.0	0.	0.00
89	41.100	25.26	0.0	0.0	0.0	4.74	12.71	0.00	12.71	0.00	1.37	0.14	0.04	1.56	0.00	0.0	0.0	0.	0.00
90	41.000	25.28	0.0	0.0	0.0	4.69	12.66	0.00	12.66	0.00	1.38	0.14	0.04	1.56	0.00	0.0	0.0	0.	0.00
91	40.900	25.29	0.0	0.0	0.0	4.64	12.60	0.00	12.60	0.00	1.38	0.14	0.04	1.57	0.00	0.0	0.0	0.	0.00
92	40.800	25.30	0.0	0.0	0.0	4.59	12.55	0.00	12.55	0.00	1.39	0.14	0.04	1.57	0.00	0.0	0.0	0.	0.00
93	40.700	25.32	0.0	0.0	0.0	4.55	12.50	0.00	12.50	0.00	1.39	0.14	0.04	1.58	0.00	0.0	0.0	0.	0.00
94	40.600	25.33	0.0	0.0	0.0	4.50	12.45	0.00	12.45	0.00	1.40	0.14	0.04	1.58	0.00	0.0	0.0	0.	0.00
95	40.500	25.34	0.0	0.0	0.0	4.46	12.40	0.00	12.40	0.00	1.41	0.14	0.04	1.59	0.00	0.0	0.0	0.	0.00
96	40.400	25.36	0.0	0.0	0.0	4.43	12.35	0.00	12.35	0.00	1.41	0.14	0.04	1.60	0.00	0.0	0.0	0.	0.00
97	40.300	25.37	0.0	0.0	0.0	4.39	12.30	0.00	12.30	0.00	1.42	0.14	0.04	1.60	0.00	0.0	0.0	0.	0.00
98	40.200	25.38	0.0	0.0	0.0	4.36	12.25	0.00	12.25	0.00	1.42	0.14	0.04	1.61	0.00	0.0	0.0	0.	0.00
99	40.100	25.40	0.0	0.0	0.0	4.33	12.19	0.00	12.19	0.00	1.43	0.14	0.04	1.61	0.00	0.0	0.0	0.	0.00
100	40.000	25.41	0.0	0.0	0.0	4.30	12.14	0.00	12.14	0.00	1.43	0.15	0.04	1.62	0.00	0.0	0.0	0.	0.00
101	39.900	25.42	0.0	0.0	0.0	4.27	12.09	0.00	12.09	0.00	1.44	0.15	0.04	1.62	0.00	0.0	0.0	0.	0.00
102	39.800	25.44	0.0	0.0	0.0	4.24	12.04	0.00	12.04	0.00	1.44	0.15	0.04	1.63	0.00	0.0	0.0	0.	0.00
103	39.700	25.45	0.0	0.0	0.0	4.22	11.99	0.00	11.99	0.00	1.45	0.15	0.04	1.63	0.00	0.0	0.0	0.	0.00
104	39.600	25.46	0.0	0.0	0.0	4.20	11.95	0.00	11.95	0.00	1.45	0.15	0.04	1.64	0.00	0.0	0.0	0.	0.00
105	39.500	25.48	0.0	0.0	0.0	4.17	11.90	0.00	11.90	0.00	1.46	0.15	0.04	1.65	0.00	0.0	0.0	0.	0.00
106	39.400	25.49	0.0	0.0	0.0	4.15	11.85	0.00	11.85	0.00	1.46	0.15	0.04	1.65	0.00	0.0	0.0	0.	0.00
107	39.300	25.50	0.0	0.0	0.0	4.13	11.80	0.00	11.80	0.00	1.47	0.15	0.04	1.66	0.00	0.0	0.0	0.	0.00
108	39.200	25.52	0.0	0.0	0.0	4.12	11.75	0.00	11.75	0.00	1.47	0.15	0.04	1.66	0.00	0.0	0.0	0.	0.00
109	39.100	25.53	0.0	0.0	0.0	4.10	11.70	0.00	11.70	0.00	1.48	0.15	0.04	1.67	0.00	0.0	0.0	0.	0.00
110	39.000	25.54	0.0	0.0	0.0	4.08	11.65	0.00	11.65	0.00	1.48	0.15	0.04	1.67	0.00	0.0	0.0	0.	0.00
111	38.900	25.56	0.0	0.0	0.0	4.07	11.60	0.00	11.60	0.00	1.49	0.15	0.04	1.68	0.00	0.0	0.0	0.	0.00
112	38.800	25.57	0.0	0.0	0.0	4.05	11.56	0.00	11.56	0.00	1.49	0.15	0.04	1.69	0.00	0.0	0.0	0.	0.00
113	38.700	25.58	0.0	0.0	0.0	4.04	11.51	0.00	11.51	0.00	1.50	0.15	0.04	1.69	0.00	0.0	0.0	0.	0.00
114	38.600	25.59	0.0	0.0	0.0	4.03	11.46	0.00	11.46	0.00	1.50	0.15	0.04	1.70	0.00	0.0	0.0	0.	0.00
115	38.500	25.61	0.0	0.0	0.0	4.01	11.41	0.00	11.41	0.00	1.51	0.15	0.04	1.70	0.00	0.0	0.0	0.	0.00
116	38.400	25.62	0.0	0.0	0.0	4.00	11.36	0.00	11.36	0.00	1.51	0.15	0.04	1.71	0.00	0.0	0.0	0.	0.00
117	38.300	25.63	0.0	0.0	0.0	3.99	11.32	0.00	11.32	0.00	1.52	0.15	0.04	1.71	0.00	0.0	0.0	0.	0.00
118	38.200	25.65	0.0	0.0	0.0	3.98	11.27	0.00	11.27	0.00	1.52	0.15	0.05	1.72	0.00	0.0	0.0	0.	0.00
119	38.100	25.66	0.0	0.0	0.0	3.97	11.22	0.00	11.22	0.00	1.53	0.15	0.05	1.72	0.00	0.0	0.0	0.	0.00
120	38.000	25.67	0.0	0.0	0.0	3.96	11.18	0.00	11.18	0.00	1.53	0.15	0.05	1.73	0.00	0.0	0.0	0.	0.00
121	37.900	25.69	0.0	0.0	0.0	3.95	11.13	0.00	11.13	0.00	1.54	0.15	0.05	1.74	0.00	0.0	0.0	0.	0.00
122	37.800	25.70	0.0	0.0	0.0	3.94	11.08	0.00	11.08	0.00	1.54	0.16	0.05	1.74	0.00	0.0	0.0	0.	0.00

123	37.700	25.71	0.0	0.0	0.0	3.94	11.04	0.00	11.04	0.00	1.55	0.16	0.05	1.75	0.00	0.0	0.0	0.	0.00
124	37.600	25.73	0.0	0.0	0.0	3.93	10.99	0.00	10.99	0.00	1.55	0.16	0.05	1.75	0.00	0.0	0.0	0.	0.00
125	37.500	25.74	0.0	0.0	0.0	3.92	10.94	0.00	10.94	0.00	1.56	0.16	0.05	1.76	0.00	0.0	0.0	0.	0.00
126	37.400	25.75	0.0	0.0	0.0	3.91	10.90	0.00	10.90	0.00	1.56	0.16	0.05	1.76	0.00	0.0	0.0	0.	0.00
127	37.300	25.77	0.0	0.0	0.0	3.91	10.85	0.00	10.85	0.00	1.57	0.16	0.05	1.77	0.00	0.0	0.0	0.	0.00
128	37.200	25.78	0.0	0.0	0.0	3.90	10.81	0.00	10.81	0.00	1.57	0.16	0.05	1.77	0.00	0.0	0.0	0.	0.00
129	37.100	25.79	0.0	0.0	0.0	3.90	10.76	0.00	10.76	0.00	1.58	0.16	0.05	1.78	0.00	0.0	0.0	0.	0.00
130	37.000	25.81	0.0	0.0	0.0	3.89	10.72	0.00	10.72	0.00	1.58	0.16	0.05	1.79	0.00	0.0	0.0	0.	0.00
131	36.900	25.82	0.0	0.0	0.0	3.88	10.67	0.00	10.67	0.00	1.59	0.16	0.05	1.79	0.00	0.0	0.0	0.	0.00
132	36.800	25.83	0.0	0.0	0.0	3.88	10.63	0.00	10.63	0.00	1.59	0.16	0.05	1.80	0.00	0.0	0.0	0.	0.00
133	36.700	25.85	0.0	0.0	0.0	3.87	10.58	0.00	10.58	0.00	1.59	0.16	0.05	1.80	0.00	0.0	0.0	0.	0.00
134	36.600	25.86	0.0	0.0	0.0	3.87	10.54	0.00	10.54	0.00	1.60	0.16	0.05	1.81	0.00	0.0	0.0	0.	0.00
135	36.500	25.87	0.0	0.0	0.0	3.87	10.49	0.00	10.49	0.00	1.60	0.16	0.05	1.81	0.00	0.0	0.0	0.	0.00
136	36.400	25.89	0.0	0.0	0.0	3.86	10.45	0.00	10.45	0.00	1.61	0.16	0.05	1.82	0.00	0.0	0.0	0.	0.00
137	36.300	25.90	0.0	0.0	0.0	3.86	10.41	0.00	10.41	0.00	1.61	0.16	0.05	1.83	0.00	0.0	0.0	0.	0.00
138	36.200	25.91	0.0	0.0	0.0	3.85	10.36	0.00	10.36	0.00	1.62	0.16	0.05	1.83	0.00	0.0	0.0	0.	0.00
139	36.100	25.93	0.0	0.0	0.0	3.85	10.32	0.00	10.32	0.00	1.62	0.16	0.05	1.84	0.00	0.0	0.0	0.	0.00
140	36.000	25.94	0.0	0.0	0.0	3.84	10.27	0.00	10.27	0.00	1.63	0.16	0.05	1.84	0.00	0.0	0.0	0.	0.00
141	35.900	25.95	0.0	0.0	0.0	3.84	10.23	0.00	10.23	0.00	1.63	0.16	0.05	1.85	0.00	0.0	0.0	0.	0.00
142	35.800	25.96	0.0	0.0	0.0	3.84	10.19	0.00	10.19	0.00	1.64	0.16	0.05	1.85	0.00	0.0	0.0	0.	0.00
143	35.700	25.98	0.0	0.0	0.0	3.83	10.14	0.00	10.14	0.00	1.64	0.17	0.05	1.86	0.00	0.0	0.0	0.	0.00
144	35.600	25.99	0.0	0.0	0.0	3.83	10.10	0.00	10.10	0.00	1.65	0.17	0.05	1.86	0.00	0.0	0.0	0.	0.00
145	35.500	26.00	0.0	0.0	0.0	3.83	10.06	0.00	10.06	0.00	1.65	0.17	0.05	1.87	0.00	0.0	0.0	0.	0.00
146	35.400	26.02	0.0	0.0	0.0	3.82	10.02	0.00	10.02	0.00	1.66	0.17	0.05	1.88	0.00	0.0	0.0	0.	0.00
147	35.300	26.03	0.0	0.0	0.0	3.82	9.97	0.00	9.97	0.00	1.66	0.17	0.05	1.88	0.00	0.0	0.0	0.	0.00
148	35.200	26.04	0.0	0.0	0.0	3.82	9.93	0.00	9.93	0.00	1.67	0.17	0.05	1.89	0.00	0.0	0.0	0.	0.00
149	35.100	26.06	0.0	0.0	0.0	3.82	9.89	0.00	9.89	0.00	1.67	0.17	0.05	1.89	0.00	0.0	0.0	0.	0.00
150	35.000	26.07	0.0	0.0	0.0	3.81	9.85	0.00	9.85	0.00	1.68	0.17	0.05	1.90	0.00	0.0	0.0	0.	0.00
151	34.900	26.08	0.0	0.0	0.0	3.81	9.81	0.00	9.81	0.00	1.68	0.17	0.05	1.90	0.00	0.0	0.0	0.	0.00
152	34.800	26.10	0.0	0.0	0.0	3.81	9.76	0.00	9.76	0.00	1.69	0.17	0.05	1.91	0.00	0.0	0.0	0.	0.00
153	34.700	26.11	0.0	0.0	0.0	3.81	9.72	0.00	9.72	0.00	1.69	0.17	0.05	1.92	0.00	0.0	0.0	0.	0.00
154	34.600	26.12	0.0	0.0	0.0	3.80	9.68	0.00	9.68	0.00	1.70	0.17	0.05	1.92	0.00	0.0	0.0	0.	0.00
155	34.500	26.14	0.0	0.0	0.0	3.80	9.64	0.00	9.64	0.00	1.70	0.17	0.05	1.93	0.00	0.0	0.0	0.	0.00
156	34.400	26.15	0.0	0.0	0.0	3.80	9.60	0.00	9.60	0.00	1.71	0.17	0.05	1.93	0.00	0.0	0.0	0.	0.00
157	34.300	26.16	0.0	0.0	0.0	3.80	9.56	0.00	9.56	0.00	1.71	0.17	0.05	1.94	0.00	0.0	0.0	0.	0.00
158	34.200	26.18	0.0	0.0	0.0	3.79	9.52	0.00	9.52	0.00	1.72	0.17	0.05	1.94	0.00	0.0	0.0	0.	0.00
159	34.100	26.19	0.0	0.0	0.0	3.79	9.48	0.00	9.48	0.00	1.72	0.17	0.05	1.95	0.00	0.0	0.0	0.	0.00
160	34.000	26.20	0.0	0.0	0.0	3.79	9.44	0.00	9.44	0.00	1.73	0.17	0.05	1.95	0.00	0.0	0.0	0.	0.00
161	33.900	26.22	0.0	0.0	0.0	3.79	9.40	0.00	9.40	0.00	1.73	0.17	0.05	1.96	0.00	0.0	0.0	0.	0.00
162	33.800	26.23	0.0	0.0	0.0	3.78	9.36	0.00	9.36	0.00	1.74	0.17	0.05	1.97	0.00	0.0	0.0	0.	0.00
163	33.700	26.24	0.0	0.0	0.0	3.78	9.32	0.00	9.32	0.00	1.74	0.17	0.05	1.97	0.00	0.0	0.0	0.	0.00
164	33.600	26.26	0.0	0.0	0.0	3.78	9.28	0.00	9.28	0.00	1.75	0.18	0.05	1.98	0.00	0.0	0.0	0.	0.00
165	33.500	26.27	0.0	0.0	0.0	3.78	9.24	0.00	9.24	0.00	1.75	0.18	0.05	1.98	0.00	0.0	0.0	0.	0.00
166	33.400	26.28	0.0	0.0	0.0	3.78	9.20	0.00	9.20	0.00	1.76	0.18	0.05	1.99	0.00	0.0	0.0	0.	0.00
167	33.300	26.30	0.0	0.0	0.0	3.77	9.16	0.00	9.16	0.00	1.76	0.18	0.05	1.99	0.00	0.0	0.0	0.	0.00
168	33.200	26.31	0.0	0.0	0.0	3.77	9.12	0.00	9.12	0.00	1.77	0.18	0.05	2.00	0.00	0.0	0.0	0.	0.00
169	33.100	26.32	0.0	0.0	0.0	3.77	9.08	0.00	9.08	0.00	1.77	0.18	0.05	2.00	0.00	0.0	0.0	0.	0.00
170	33.000	26.34	0.0	0.0	0.0	3.77	9.04	0.00	9.04	0.00	1.78	0.18	0.05	2.01	0.00	0.0	0.0	0.	0.00
171	32.900	26.35	0.0	0.0	0.0	3.77	9.00	0.00	9.00	0.00	1.78	0.18	0.05	2.02	0.00	0.0	0.0	0.	0.00
172	32.800	26.36	0.0	0.0	0.0	3.76	8.96	0.00	8.96	0.00	1.79	0.18	0.05	2.02	0.00	0.0	0.0	0.	0.00
173	32.700	26.37	0.0	0.0	0.0	3.76	8.92	0.00	8.92	0.00	1.79	0.18	0.05	2.03	0.00	0.0	0.0	0.	0.00
174	32.600	26.39	0.0	0.0	0.0	3.76	8.88	0.00	8.88	0.00	1.80	0.18	0.05	2.03	0.00	0.0	0.0	0.	0.00

175	32.500	26.40	0.0	0.0	0.0	3.76	8.85	0.00	8.85	0.00	1.80	0.18	0.05	2.04	0.00	0.0	0.0	0.	0.00
176	32.400	26.41	0.0	0.0	0.0	3.76	8.81	0.00	8.81	0.00	1.81	0.18	0.06	2.04	0.00	0.0	0.0	0.	0.00
177	32.300	26.43	0.0	0.0	0.0	3.75	8.77	0.00	8.77	0.00	1.81	0.18	0.06	2.05	0.00	0.0	0.0	0.	0.00
178	32.200	26.44	0.0	0.0	0.0	3.75	8.73	0.00	8.73	0.00	1.82	0.18	0.06	2.06	0.00	0.0	0.0	0.	0.00
179	32.100	26.45	0.0	0.0	0.0	3.75	8.69	0.00	8.69	0.00	1.82	0.18	0.06	2.06	0.00	0.0	0.0	0.	0.00
180	32.000	26.47	0.0	0.0	0.0	3.75	8.66	0.00	8.66	0.00	1.83	0.18	0.06	2.07	0.00	0.0	0.0	0.	0.00
181	31.900	26.48	0.0	0.0	0.0	3.75	8.62	0.00	8.62	0.00	1.83	0.18	0.06	2.07	0.00	0.0	0.0	0.	0.00
182	31.800	26.49	0.0	0.0	0.0	3.74	8.58	0.00	8.58	0.00	1.84	0.18	0.06	2.08	0.00	0.0	0.0	0.	0.00
183	31.700	26.51	0.0	0.0	0.0	3.74	8.54	0.00	8.54	0.00	1.84	0.18	0.06	2.08	0.00	0.0	0.0	0.	0.00
184	31.600	26.52	0.0	0.0	0.0	3.74	8.51	0.00	8.51	0.00	1.85	0.18	0.06	2.09	0.00	0.0	0.0	0.	0.00
185	31.500	26.53	0.0	0.0	0.0	3.74	8.47	0.00	8.47	0.00	1.85	0.19	0.06	2.09	0.00	0.0	0.0	0.	0.00
186	31.400	26.55	0.0	0.0	0.0	3.74	8.43	0.00	8.43	0.00	1.86	0.19	0.06	2.10	0.00	0.0	0.0	0.	0.00
187	31.300	26.56	0.0	0.0	0.0	3.73	8.40	0.00	8.40	0.00	1.86	0.19	0.06	2.11	0.00	0.0	0.0	0.	0.00
188	31.200	26.57	0.0	0.0	0.0	3.73	8.36	0.00	8.36	0.00	1.87	0.19	0.06	2.11	0.00	0.0	0.0	0.	0.00
189	31.100	26.59	0.0	0.0	0.0	3.73	8.32	0.00	8.32	0.00	1.87	0.19	0.06	2.12	0.00	0.0	0.0	0.	0.00
190	31.000	26.60	0.0	0.0	0.0	3.73	8.29	0.00	8.29	0.00	1.88	0.19	0.06	2.12	0.00	0.0	0.0	0.	0.00
191	30.900	26.61	0.0	0.0	0.0	3.73	8.25	0.00	8.25	0.00	1.88	0.19	0.06	2.13	0.00	0.0	0.0	0.	0.00
192	30.800	26.63	0.0	0.0	0.0	3.72	8.22	0.00	8.22	0.00	1.89	0.19	0.06	2.13	0.00	0.0	0.0	0.	0.00
193	30.700	26.64	0.0	0.0	0.0	3.72	8.18	0.00	8.18	0.00	1.89	0.19	0.06	2.14	0.00	0.0	0.0	0.	0.00
194	30.600	26.65	0.0	0.0	0.0	3.72	8.14	0.00	8.14	0.00	1.90	0.19	0.06	2.15	0.00	0.0	0.0	0.	0.00
195	30.500	26.67	0.0	0.0	0.0	3.72	8.11	0.00	8.11	0.00	1.90	0.19	0.06	2.15	0.00	0.0	0.0	0.	0.00
196	30.400	26.68	0.0	0.0	0.0	3.72	8.07	0.00	8.07	0.00	1.91	0.19	0.06	2.16	0.00	0.0	0.0	0.	0.00
197	30.300	26.69	0.0	0.0	0.0	3.71	8.04	0.00	8.04	0.00	1.91	0.19	0.06	2.16	0.00	0.0	0.0	0.	0.00
198	30.200	26.71	0.0	0.0	0.0	3.71	8.00	0.00	8.00	0.00	1.92	0.19	0.06	2.17	0.00	0.0	0.0	0.	0.00
199	30.100	26.72	0.0	0.0	0.0	3.71	7.97	0.00	7.97	0.00	1.92	0.19	0.06	2.17	0.00	0.0	0.0	0.	0.00
200	30.000	26.73	0.0	0.0	0.0	3.71	7.93	0.00	7.93	0.00	1.93	0.19	0.06	2.18	0.00	0.0	0.0	0.	0.00
201	29.900	26.74	0.0	0.0	0.0	3.71	7.90	0.00	7.90	0.00	1.93	0.19	0.06	2.19	0.00	0.0	0.0	0.	0.00
202	29.800	26.76	0.0	0.0	0.0	3.70	7.86	0.00	7.86	0.00	1.94	0.19	0.06	2.19	0.00	0.0	0.0	0.	0.00
203	29.700	26.77	0.0	0.0	0.0	3.70	7.83	0.00	7.83	0.00	1.94	0.19	0.06	2.20	0.00	0.0	0.0	0.	0.00
204	29.600	26.78	0.0	0.0	0.0	3.70	7.80	0.00	7.80	0.00	1.95	0.20	0.06	2.20	0.00	0.0	0.0	0.	0.00
205	29.500	26.80	0.0	0.0	0.0	3.70	7.76	0.00	7.76	0.00	1.95	0.20	0.06	2.21	0.00	0.0	0.0	0.	0.00
206	29.400	26.81	0.0	0.0	0.0	3.70	7.73	0.00	7.73	0.00	1.96	0.20	0.06	2.21	0.00	0.0	0.0	0.	0.00
207	29.300	26.82	0.0	0.0	0.0	3.69	7.69	0.00	7.69	0.00	1.96	0.20	0.06	2.22	0.00	0.0	0.0	0.	0.00
208	29.200	26.84	0.0	0.0	0.0	3.69	7.66	0.00	7.66	0.00	1.97	0.20	0.06	2.22	0.00	0.0	0.0	0.	0.00
209	29.100	26.85	0.0	0.0	0.0	3.69	7.63	0.00	7.63	0.00	1.97	0.20	0.06	2.23	0.00	0.0	0.0	0.	0.00
210	29.000	26.86	0.0	0.0	0.0	3.69	7.59	0.00	7.59	0.00	1.98	0.20	0.06	2.24	0.00	0.0	0.0	0.	0.00
211	28.900	26.88	0.0	0.0	0.0	3.68	7.56	0.00	7.56	0.00	1.98	0.20	0.06	2.24	0.00	0.0	0.0	0.	0.00
212	28.800	26.89	0.0	0.0	0.0	3.68	7.53	0.00	7.53	0.00	1.99	0.20	0.06	2.25	0.00	0.0	0.0	0.	0.00
213	28.700	26.90	0.0	0.0	0.0	3.68	7.49	0.00	7.49	0.00	1.99	0.20	0.06	2.25	0.00	0.0	0.0	0.	0.00
214	28.600	26.92	0.0	0.0	0.0	3.68	7.46	0.00	7.46	0.00	2.00	0.20	0.06	2.26	0.00	0.0	0.0	0.	0.00
215	28.500	26.93	0.0	0.0	0.0	3.68	7.43	0.00	7.43	0.00	2.00	0.20	0.06	2.26	0.00	0.0	0.0	0.	0.00
216	28.400	26.94	0.0	0.0	0.0	3.67	7.39	0.00	7.39	0.00	2.00	0.20	0.06	2.27	0.00	0.0	0.0	0.	0.00
217	28.300	26.96	0.0	0.0	0.0	3.67	7.36	0.00	7.36	0.00	2.01	0.20	0.06	2.28	0.00	0.0	0.0	0.	0.00
218	28.200	26.97	0.0	0.0	0.0	3.67	7.33	0.00	7.33	0.00	2.01	0.20	0.06	2.28	0.00	0.0	0.0	0.	0.00
219	28.100	26.98	0.0	0.0	0.0	3.67	7.30	0.00	7.30	0.00	2.02	0.20	0.06	2.29	0.00	0.0	0.0	0.	0.00
220	28.000	27.00	0.0	0.0	0.0	3.67	7.26	0.00	7.26	0.00	2.02	0.20	0.06	2.29	0.00	0.0	0.0	0.	0.00
221	27.900	27.01	0.0	0.0	0.0	3.66	7.23	0.00	7.23	0.00	2.03	0.20	0.06	2.30	0.00	0.0	0.0	0.	0.00
222	27.800	27.02	0.0	0.0	0.0	3.66	7.20	0.00	7.20	0.00	2.03	0.20	0.06	2.30	0.00	0.0	0.0	0.	0.00
223	27.700	27.04	0.0	0.0	0.0	3.66	7.17	0.00	7.17	0.00	2.04	0.20	0.06	2.31	0.00	0.0	0.0	0.	0.00
224	27.600	27.05	0.0	0.0	0.0	3.66	7.13	0.00	7.13	0.00	2.04	0.21	0.07	2.31	0.00	0.0	0.0	0.	0.00
225	27.500	27.06	0.0	0.0	0.0	3.66	7.10	0.00	7.10	0.00	2.05	0.21	0.07	2.32	0.00	0.0	0.0	0.	0.00
226	27.400	27.08	0.0	0.0	0.0	3.65	7.07	0.00	7.07	0.00	2.05	0.21	0.07	2.33	0.00	0.0	0.0	0.	0.00

227	27.300	27.09	0.0	0.0	0.0	3.65	7.04	0.00	7.04	0.00	2.06	0.21	0.07	2.33	0.00	0.0	0.0	0.	0.00
228	27.200	27.10	0.0	0.0	0.0	3.65	7.01	0.00	7.01	0.00	2.06	0.21	0.07	2.34	0.00	0.0	0.0	0.	0.00
229	27.100	27.11	0.0	0.0	0.0	3.65	6.98	0.00	6.98	0.00	2.07	0.21	0.07	2.34	0.00	0.0	0.0	0.	0.00
230	27.000	27.13	0.0	0.0	0.0	3.64	6.95	0.00	6.95	0.00	2.07	0.21	0.07	2.35	0.00	0.0	0.0	0.	0.00
231	26.900	27.14	0.0	0.0	0.0	3.64	6.92	0.00	6.92	0.00	2.08	0.21	0.07	2.35	0.00	0.0	0.0	0.	0.00
232	26.800	27.15	0.0	0.0	0.0	3.64	6.88	0.00	6.88	0.00	2.08	0.21	0.07	2.36	0.00	0.0	0.0	0.	0.00
233	26.700	27.17	0.0	0.0	0.0	3.64	6.85	0.00	6.85	0.00	2.09	0.21	0.07	2.37	0.00	0.0	0.0	0.	0.00
234	26.600	27.18	0.0	0.0	0.0	3.64	6.82	0.00	6.82	0.00	2.09	0.21	0.07	2.37	0.00	0.0	0.0	0.	0.00
235	26.500	27.19	0.0	0.0	0.0	3.63	6.79	0.00	6.79	0.00	2.10	0.21	0.07	2.38	0.00	0.0	0.0	0.	0.00
236	26.400	27.21	0.0	0.0	0.0	3.63	6.76	0.00	6.76	0.00	2.10	0.21	0.07	2.38	0.00	0.0	0.0	0.	0.00
237	26.300	27.22	0.0	0.0	0.0	3.63	6.73	0.00	6.73	0.00	2.11	0.21	0.07	2.39	0.00	0.0	0.0	0.	0.00
238	26.200	27.23	0.0	0.0	0.0	3.63	6.70	0.00	6.70	0.00	2.11	0.21	0.07	2.39	0.00	0.0	0.0	0.	0.00
239	26.100	27.25	0.0	0.0	0.0	3.62	6.67	0.00	6.67	0.00	2.12	0.21	0.07	2.40	0.00	0.0	0.0	0.	0.00
240	26.000	27.26	0.0	0.0	0.0	3.62	6.64	0.00	6.64	0.00	2.12	0.21	0.07	2.40	0.00	0.0	0.0	0.	0.00
241	25.900	27.27	0.0	0.0	0.0	3.62	6.61	0.00	6.61	0.00	2.13	0.21	0.07	2.41	0.00	0.0	0.0	0.	0.00
242	25.800	27.29	0.0	0.0	0.0	4.81	7.67	0.00	7.67	0.00	1.88	0.13	0.06	2.07	0.00	0.0	0.0	0.	0.00
243	25.700	27.30	0.0	0.0	0.0	4.81	7.65	0.00	7.65	0.00	1.88	0.13	0.06	2.08	0.00	0.0	0.0	0.	0.00
244	25.600	27.30	0.0	0.0	0.0	4.81	7.64	0.00	7.64	0.00	1.88	0.13	0.06	2.08	0.00	0.0	0.0	0.	0.00
245	25.500	27.29	0.0	0.0	0.0	4.80	7.62	0.00	7.62	0.00	1.89	0.13	0.06	2.08	0.00	0.0	0.0	0.	0.00
246	25.400	27.29	0.0	0.0	0.0	4.80	7.61	0.00	7.61	0.00	1.89	0.13	0.06	2.08	0.00	0.0	0.0	0.	0.00
247	25.300	27.28	0.0	0.0	0.0	4.79	7.60	0.00	7.60	0.00	1.89	0.13	0.06	2.08	0.00	0.0	0.0	0.	0.00
248	25.200	27.28	0.0	0.0	0.0	4.79	7.58	0.00	7.58	0.00	1.89	0.13	0.07	2.08	0.00	0.0	0.0	0.	0.00
249	25.100	27.27	0.0	0.0	0.0	4.78	7.57	0.00	7.57	0.00	1.89	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
250	25.000	27.27	0.0	0.0	0.0	4.78	7.55	0.00	7.55	0.00	1.89	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
251	24.900	27.27	0.0	0.0	0.0	4.78	7.54	0.00	7.54	0.00	1.89	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
252	24.800	27.26	0.0	0.0	0.0	4.77	7.53	0.00	7.53	0.00	1.90	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
253	24.700	27.26	0.0	0.0	0.0	4.77	7.51	0.00	7.51	0.00	1.90	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
254	24.600	27.25	0.0	0.0	0.0	4.77	7.50	0.00	7.50	0.00	1.90	0.13	0.07	2.09	0.00	0.0	0.0	0.	0.00
255	24.500	27.25	0.0	0.0	0.0	4.77	7.49	0.00	7.49	0.00	1.90	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
256	24.400	27.25	0.0	0.0	0.0	4.76	7.47	0.00	7.47	0.00	1.90	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
257	24.300	27.24	0.0	0.0	0.0	4.76	7.46	0.00	7.46	0.00	1.90	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
258	24.200	27.24	0.0	0.0	0.0	4.76	7.45	0.00	7.45	0.00	1.90	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
259	24.100	27.23	0.0	0.0	0.0	4.76	7.43	0.00	7.43	0.00	1.91	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
260	24.000	27.23	0.0	0.0	0.0	4.76	7.42	0.00	7.42	0.00	1.91	0.13	0.07	2.10	0.00	0.0	0.0	0.	0.00
261	23.900	27.22	0.0	0.0	0.0	4.76	7.41	0.00	7.41	0.00	1.91	0.13	0.07	2.11	0.00	0.0	0.0	0.	0.00
262	23.800	27.22	0.0	0.0	0.0	4.76	7.39	0.00	7.39	0.00	1.91	0.13	0.07	2.11	0.00	0.0	0.0	0.	0.00
263	23.700	27.22	0.0	0.0	0.0	4.76	7.38	0.00	7.38	0.00	1.91	0.13	0.07	2.11	0.00	0.0	0.0	0.	0.00
264	23.600	27.21	0.0	0.0	0.0	4.75	7.37	0.00	7.37	0.00	1.91	0.13	0.07	2.11	0.00	0.0	0.0	0.	0.00
265	23.500	27.21	0.0	0.0	0.0	4.75	7.35	0.00	7.35	0.00	1.91	0.13	0.07	2.11	0.00	0.0	0.0	0.	0.00
266	23.400	27.20	0.0	0.0	0.0	4.75	7.34	0.00	7.34	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
267	23.300	27.20	0.0	0.0	0.0	4.75	7.33	0.00	7.33	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
268	23.200	27.20	0.0	0.0	0.0	4.75	7.31	0.00	7.31	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
269	23.100	27.19	0.0	0.0	0.0	4.75	7.30	0.00	7.30	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
270	23.000	27.19	0.0	0.0	0.0	4.75	7.29	0.00	7.29	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
271	22.900	27.18	0.0	0.0	0.0	4.75	7.28	0.00	7.28	0.00	1.92	0.13	0.07	2.12	0.00	0.0	0.0	0.	0.00
272	22.800	27.18	0.0	0.0	0.0	4.75	7.26	0.00	7.26	0.00	1.92	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
273	22.700	27.17	0.0	0.0	0.0	4.75	7.25	0.00	7.25	0.00	1.93	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
274	22.600	27.17	0.0	0.0	0.0	4.75	7.24	0.00	7.24	0.00	1.93	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
275	22.500	27.17	0.0	0.0	0.0	4.75	7.22	0.00	7.22	0.00	1.93	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
276	22.400	27.16	0.0	0.0	0.0	4.75	7.21	0.00	7.21	0.00	1.93	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
277	22.300	27.16	0.0	0.0	0.0	4.75	7.20	0.00	7.20	0.00	1.93	0.13	0.07	2.13	0.00	0.0	0.0	0.	0.00
278	22.200	27.15	0.0	0.0	0.0	4.75	7.19	0.00	7.19	0.00	1.93	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00

279	22.100	27.15	0.0	0.0	0.0	4.75	7.17	0.00	7.17	0.00	1.93	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00
280	22.000	27.15	0.0	0.0	0.0	4.76	7.16	0.00	7.16	0.00	1.94	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00
281	21.900	27.14	0.0	0.0	0.0	4.76	7.15	0.00	7.15	0.00	1.94	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00
282	21.800	27.14	0.0	0.0	0.0	4.76	7.13	0.00	7.13	0.00	1.94	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00
283	21.700	27.13	0.0	0.0	0.0	4.76	7.12	0.00	7.12	0.00	1.94	0.13	0.07	2.14	0.00	0.0	0.0	0.	0.00
284	21.600	27.13	0.0	0.0	0.0	4.76	7.11	0.00	7.11	0.00	1.94	0.13	0.07	2.15	0.00	0.0	0.0	0.	0.00
285	21.500	27.12	0.0	0.0	0.0	4.76	7.10	0.00	7.10	0.00	1.94	0.14	0.07	2.15	0.00	0.0	0.0	0.	0.00
286	21.400	27.12	0.0	0.0	0.0	4.76	7.08	0.00	7.08	0.00	1.94	0.14	0.07	2.15	0.00	0.0	0.0	0.	0.00
287	21.300	27.12	0.0	0.0	0.0	4.76	7.07	0.00	7.07	0.00	1.95	0.14	0.07	2.15	0.00	0.0	0.0	0.	0.00
288	21.200	27.11	0.0	0.0	0.0	4.76	7.06	0.00	7.06	0.00	1.95	0.14	0.07	2.15	0.00	0.0	0.0	0.	0.00
289	21.100	27.11	0.0	0.0	0.0	4.76	7.05	0.00	7.05	0.00	1.95	0.14	0.07	2.15	0.00	0.0	0.0	0.	0.00
290	21.000	27.10	0.0	0.0	0.0	4.76	7.03	0.00	7.03	0.00	1.95	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
291	20.900	27.10	0.0	0.0	0.0	4.76	7.02	0.00	7.02	0.00	1.95	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
292	20.800	27.10	0.0	0.0	0.0	4.77	7.01	0.00	7.01	0.00	1.95	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
293	20.700	27.09	0.0	0.0	0.0	4.77	7.00	0.00	7.00	0.00	1.95	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
294	20.600	27.09	0.0	0.0	0.0	4.77	6.98	0.00	6.98	0.00	1.96	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
295	20.500	27.08	0.0	0.0	0.0	4.77	6.97	0.00	6.97	0.00	1.96	0.14	0.07	2.16	0.00	0.0	0.0	0.	0.00
296	20.400	27.08	0.0	0.0	0.0	4.77	6.96	0.00	6.96	0.00	1.96	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
297	20.300	27.07	0.0	0.0	0.0	4.77	6.95	0.00	6.95	0.00	1.96	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
298	20.200	27.07	0.0	0.0	0.0	4.77	6.93	0.00	6.93	0.00	1.96	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
299	20.100	27.07	0.0	0.0	0.0	4.77	6.92	0.00	6.92	0.00	1.96	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
300	20.000	27.06	0.0	0.0	0.0	4.77	6.91	0.00	6.91	0.00	1.96	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
301	19.900	27.06	0.0	0.0	0.0	4.78	6.90	0.00	6.90	0.00	1.97	0.14	0.07	2.17	0.00	0.0	0.0	0.	0.00
302	19.800	27.05	0.0	0.0	0.0	4.78	6.88	0.00	6.88	0.00	1.97	0.14	0.07	2.18	0.00	0.0	0.0	0.	0.00
303	19.700	27.05	0.0	0.0	0.0	4.78	6.87	0.00	6.87	0.00	1.97	0.14	0.07	2.18	0.00	0.0	0.0	0.	0.00
304	19.600	27.05	0.0	0.0	0.0	4.78	6.86	0.00	6.86	0.00	1.97	0.14	0.07	2.18	0.00	0.0	0.0	0.	0.00
305	19.500	27.04	0.0	0.0	0.0	4.78	6.85	0.00	6.85	0.00	1.97	0.14	0.07	2.18	0.00	0.0	0.0	0.	0.00
306	19.400	27.04	0.0	0.0	0.0	4.78	6.84	0.00	6.84	0.00	1.97	0.14	0.07	2.18	0.00	0.0	0.0	0.	0.00
307	19.300	27.03	0.0	0.0	0.0	4.78	6.82	0.00	6.82	0.00	1.97	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
308	19.200	27.03	0.0	0.0	0.0	4.79	6.81	0.00	6.81	0.00	1.98	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
309	19.100	27.02	0.0	0.0	0.0	4.79	6.80	0.00	6.80	0.00	1.98	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
310	19.000	27.02	0.0	0.0	0.0	4.79	6.79	0.00	6.79	0.00	1.98	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
311	18.900	27.02	0.0	0.0	0.0	4.79	6.78	0.00	6.78	0.00	1.98	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
312	18.800	27.01	0.0	0.0	0.0	4.79	6.76	0.00	6.76	0.00	1.98	0.14	0.07	2.19	0.00	0.0	0.0	0.	0.00
313	18.700	27.01	0.0	0.0	0.0	4.79	6.75	0.00	6.75	0.00	1.98	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
314	18.600	27.00	0.0	0.0	0.0	4.79	6.74	0.00	6.74	0.00	1.99	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
315	18.500	27.00	0.0	0.0	0.0	4.79	6.73	0.00	6.73	0.00	1.99	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
316	18.400	27.00	0.0	0.0	0.0	4.80	6.72	0.00	6.72	0.00	1.99	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
317	18.300	26.99	0.0	0.0	0.0	4.80	6.70	0.00	6.70	0.00	1.99	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
318	18.200	26.99	0.0	0.0	0.0	4.80	6.69	0.00	6.69	0.00	1.99	0.14	0.07	2.20	0.00	0.0	0.0	0.	0.00
319	18.100	26.98	0.0	0.0	0.0	4.80	6.68	0.00	6.68	0.00	1.99	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
320	18.000	26.98	0.0	0.0	0.0	4.80	6.67	0.00	6.67	0.00	1.99	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
321	17.900	26.98	0.0	0.0	0.0	4.80	6.66	0.00	6.66	0.00	2.00	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
322	17.800	26.97	0.0	0.0	0.0	4.80	6.64	0.00	6.64	0.00	2.00	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
323	17.700	26.97	0.0	0.0	0.0	4.81	6.63	0.00	6.63	0.00	2.00	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
324	17.600	26.96	0.0	0.0	0.0	4.81	6.62	0.00	6.62	0.00	2.00	0.14	0.07	2.21	0.00	0.0	0.0	0.	0.00
325	17.500	26.96	0.0	0.0	0.0	4.81	6.61	0.00	6.61	0.00	2.00	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00
326	17.400	26.95	0.0	0.0	0.0	4.81	6.60	0.00	6.60	0.00	2.00	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00
327	17.300	26.95	0.0	0.0	0.0	4.81	6.59	0.00	6.59	0.00	2.00	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00
328	17.200	26.95	0.0	0.0	0.0	4.81	6.57	0.00	6.57	0.00	2.01	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00
329	17.100	26.94	0.0	0.0	0.0	4.82	6.56	0.00	6.56	0.00	2.01	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00
330	17.000	26.94	0.0	0.0	0.0	4.82	6.55	0.00	6.55	0.00	2.01	0.14	0.07	2.22	0.00	0.0	0.0	0.	0.00

331	16.900	26.93	0.0	0.0	0.0	4.82	6.54	0.00	6.54	0.00	2.01	0.14	0.07	2.23	0.00	0.0	0.0	0.	0.00
332	16.800	26.93	0.0	0.0	0.0	4.82	6.53	0.00	6.53	0.00	2.01	0.14	0.07	2.23	0.00	0.0	0.0	0.	0.00
333	16.700	26.92	0.0	0.0	0.0	4.82	6.52	0.00	6.52	0.00	2.01	0.14	0.07	2.23	0.00	0.0	0.0	0.	0.00
334	16.600	26.92	0.0	0.0	0.0	4.82	6.51	0.00	6.51	0.00	2.01	0.14	0.07	2.23	0.00	0.0	0.0	0.	0.00
335	16.500	26.92	0.0	0.0	0.0	4.82	6.49	0.00	6.49	0.00	2.02	0.14	0.08	2.23	0.00	0.0	0.0	0.	0.00
336	16.400	26.91	0.0	0.0	0.0	4.83	6.48	0.00	6.48	0.00	2.02	0.14	0.08	2.23	0.00	0.0	0.0	0.	0.00
337	16.300	26.91	0.0	0.0	0.0	4.83	6.47	0.00	6.47	0.00	2.02	0.14	0.08	2.24	0.00	0.0	0.0	0.	0.00
338	16.200	26.90	0.0	0.0	0.0	4.83	6.46	0.00	6.46	0.00	2.02	0.14	0.08	2.24	0.00	0.0	0.0	0.	0.00
339	16.100	26.90	0.0	0.0	0.0	4.85	6.61	0.00	6.61	0.00	1.98	0.14	0.09	2.21	0.00	0.0	0.0	0.	0.00
340	16.000	26.90	0.0	0.0	0.0	4.84	6.60	0.00	6.60	0.00	1.98	0.14	0.09	2.21	0.00	0.0	0.0	0.	0.00
341	15.900	26.89	0.0	0.0	0.0	4.84	6.59	0.00	6.59	0.00	1.98	0.14	0.09	2.21	0.00	0.0	0.0	0.	0.00
342	15.800	26.89	0.0	0.0	0.0	4.83	6.58	0.00	6.58	0.00	1.98	0.14	0.09	2.21	0.00	0.0	0.0	0.	0.00
343	15.700	26.89	0.0	0.0	0.0	4.83	6.57	0.00	6.57	0.00	1.98	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
344	15.600	26.88	0.0	0.0	0.0	4.82	6.56	0.00	6.56	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
345	15.500	26.88	0.0	0.0	0.0	4.82	6.55	0.00	6.55	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
346	15.400	26.87	0.0	0.0	0.0	4.81	6.54	0.00	6.54	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
347	15.300	26.87	0.0	0.0	0.0	4.81	6.53	0.00	6.53	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
348	15.200	26.87	0.0	0.0	0.0	4.81	6.52	0.00	6.52	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
349	15.100	26.86	0.0	0.0	0.0	4.80	6.51	0.00	6.51	0.00	1.99	0.14	0.09	2.22	0.00	0.0	0.0	0.	0.00
350	15.000	26.86	0.0	0.0	0.0	4.80	6.50	0.00	6.50	0.00	1.99	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
351	14.900	26.86	0.0	0.0	0.0	4.80	6.49	0.00	6.49	0.00	2.00	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
352	14.800	26.85	0.0	0.0	0.0	4.79	6.47	0.00	6.47	0.00	2.00	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
353	14.700	26.85	0.0	0.0	0.0	4.79	6.46	0.00	6.46	0.00	2.00	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
354	14.600	26.84	0.0	0.0	0.0	4.79	6.45	0.00	6.45	0.00	2.00	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
355	14.500	26.84	0.0	0.0	0.0	4.79	6.44	0.00	6.44	0.00	2.00	0.14	0.09	2.23	0.00	0.0	0.0	0.	0.00
356	14.400	26.84	0.0	0.0	0.0	4.78	6.43	0.00	6.43	0.00	2.00	0.14	0.09	2.24	0.00	0.0	0.0	0.	0.00
357	14.300	26.83	0.0	0.0	0.0	4.78	6.42	0.00	6.42	0.00	2.00	0.14	0.09	2.24	0.00	0.0	0.0	0.	0.00
358	14.200	26.83	0.0	0.0	0.0	4.78	6.41	0.00	6.41	0.00	2.01	0.14	0.09	2.24	0.00	0.0	0.0	0.	0.00
359	14.100	26.83	0.0	0.0	0.0	4.78	6.40	0.00	6.40	0.00	2.01	0.14	0.10	2.24	0.00	0.0	0.0	0.	0.00
360	14.000	26.82	0.0	0.0	0.0	4.78	6.39	0.00	6.39	0.00	2.01	0.14	0.10	2.24	0.00	0.0	0.0	0.	0.00
361	13.900	26.82	0.0	0.0	0.0	4.78	6.38	0.00	6.38	0.00	2.01	0.14	0.10	2.24	0.00	0.0	0.0	0.	0.00
362	13.800	26.81	0.0	0.0	0.0	4.78	6.37	0.00	6.37	0.00	2.01	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
363	13.700	26.81	0.0	0.0	0.0	4.77	6.36	0.00	6.36	0.00	2.01	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
364	13.600	26.81	0.0	0.0	0.0	4.77	6.35	0.00	6.35	0.00	2.01	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
365	13.500	26.80	0.0	0.0	0.0	4.77	6.34	0.00	6.34	0.00	2.01	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
366	13.400	26.80	0.0	0.0	0.0	4.77	6.33	0.00	6.33	0.00	2.02	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
367	13.300	26.80	0.0	0.0	0.0	4.77	6.32	0.00	6.32	0.00	2.02	0.14	0.10	2.25	0.00	0.0	0.0	0.	0.00
368	13.200	26.79	0.0	0.0	0.0	4.77	6.31	0.00	6.31	0.00	2.02	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
369	13.100	26.79	0.0	0.0	0.0	4.77	6.30	0.00	6.30	0.00	2.02	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
370	13.000	26.79	0.0	0.0	0.0	4.77	6.29	0.00	6.29	0.00	2.02	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
371	12.900	26.78	0.0	0.0	0.0	4.77	6.28	0.00	6.28	0.00	2.02	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
372	12.800	26.78	0.0	0.0	0.0	4.77	6.27	0.00	6.27	0.00	2.02	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
373	12.700	26.77	0.0	0.0	0.0	4.77	6.26	0.00	6.26	0.00	2.03	0.14	0.10	2.26	0.00	0.0	0.0	0.	0.00
374	12.600	26.77	0.0	0.0	0.0	4.77	6.25	0.00	6.25	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
375	12.500	26.77	0.0	0.0	0.0	4.77	6.24	0.00	6.24	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
376	12.400	26.76	0.0	0.0	0.0	4.77	6.23	0.00	6.23	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
377	12.300	26.76	0.0	0.0	0.0	4.77	6.22	0.00	6.22	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
378	12.200	26.76	0.0	0.0	0.0	4.77	6.21	0.00	6.21	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
379	12.100	26.75	0.0	0.0	0.0	4.77	6.20	0.00	6.20	0.00	2.03	0.14	0.10	2.27	0.00	0.0	0.0	0.	0.00
380	12.000	26.75	0.0	0.0	0.0	4.77	6.19	0.00	6.19	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00
381	11.900	26.74	0.0	0.0	0.0	4.77	6.18	0.00	6.18	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00
382	11.800	26.74	0.0	0.0	0.0	4.77	6.17	0.00	6.17	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00

383	11.700	26.74	0.0	0.0	0.0	4.77	6.16	0.00	6.16	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00
384	11.600	26.73	0.0	0.0	0.0	4.77	6.15	0.00	6.15	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00
385	11.500	26.73	0.0	0.0	0.0	4.78	6.14	0.00	6.14	0.00	2.04	0.14	0.10	2.28	0.00	0.0	0.0	0.	0.00
386	11.400	26.73	0.0	0.0	0.0	4.78	6.13	0.00	6.13	0.00	2.04	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
387	11.300	26.72	0.0	0.0	0.0	4.78	6.12	0.00	6.12	0.00	2.05	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
388	11.200	26.72	0.0	0.0	0.0	4.78	6.11	0.00	6.11	0.00	2.05	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
389	11.100	26.71	0.0	0.0	0.0	4.78	6.10	0.00	6.10	0.00	2.05	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
390	11.000	26.71	0.0	0.0	0.0	4.78	6.09	0.00	6.09	0.00	2.05	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
391	10.900	26.71	0.0	0.0	0.0	4.78	6.08	0.00	6.08	0.00	2.05	0.14	0.10	2.29	0.00	0.0	0.0	0.	0.00
392	10.800	26.70	0.0	0.0	0.0	4.78	6.07	0.00	6.07	0.00	2.05	0.14	0.10	2.30	0.00	0.0	0.0	0.	0.00
393	10.700	26.70	0.0	0.0	0.0	4.78	6.07	0.00	6.07	0.00	2.05	0.14	0.10	2.30	0.00	0.0	0.0	0.	0.00
394	10.600	26.70	0.0	0.0	0.0	4.78	6.06	0.00	6.06	0.00	2.06	0.14	0.10	2.30	0.00	0.0	0.0	0.	0.00
395	10.500	26.69	0.0	0.0	0.0	4.78	6.05	0.00	6.05	0.00	2.06	0.14	0.10	2.30	0.00	0.0	0.0	0.	0.00
396	10.400	26.69	0.0	0.0	0.0	4.78	6.04	0.00	6.04	0.00	2.06	0.15	0.10	2.30	0.00	0.0	0.0	0.	0.00
397	10.300	26.69	0.0	0.0	0.0	4.79	6.03	0.00	6.03	0.00	2.06	0.15	0.10	2.30	0.00	0.0	0.0	0.	0.00
398	10.200	26.68	0.0	0.0	0.0	4.79	6.02	0.00	6.02	0.00	2.06	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
399	10.100	26.68	0.0	0.0	0.0	4.79	6.01	0.00	6.01	0.00	2.06	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
400	10.000	26.67	0.0	0.0	0.0	4.79	6.00	0.00	6.00	0.00	2.06	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
401	9.900	26.67	0.0	0.0	0.0	4.79	5.99	0.00	5.99	0.00	2.07	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
402	9.800	26.67	0.0	0.0	0.0	4.79	5.98	0.00	5.98	0.00	2.07	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
403	9.700	26.66	0.0	0.0	0.0	4.79	5.97	0.00	5.97	0.00	2.07	0.15	0.10	2.31	0.00	0.0	0.0	0.	0.00
404	9.600	26.66	0.0	0.0	0.0	4.79	5.96	0.00	5.96	0.00	2.07	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
405	9.500	26.66	0.0	0.0	0.0	4.79	5.95	0.00	5.95	0.00	2.07	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
406	9.400	26.65	0.0	0.0	0.0	4.79	5.94	0.00	5.94	0.00	2.07	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
407	9.300	26.65	0.0	0.0	0.0	4.80	5.93	0.00	5.93	0.00	2.07	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
408	9.200	26.64	0.0	0.0	0.0	4.80	5.92	0.00	5.92	0.00	2.08	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
409	9.100	26.64	0.0	0.0	0.0	4.80	5.91	0.00	5.91	0.00	2.08	0.15	0.10	2.32	0.00	0.0	0.0	0.	0.00
410	9.000	26.64	0.0	0.0	0.0	4.80	5.90	0.00	5.90	0.00	2.08	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
411	8.900	26.63	0.0	0.0	0.0	4.80	5.89	0.00	5.89	0.00	2.08	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
412	8.800	26.63	0.0	0.0	0.0	4.80	5.89	0.00	5.89	0.00	2.08	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
413	8.700	26.63	0.0	0.0	0.0	4.80	5.88	0.00	5.88	0.00	2.08	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
414	8.600	26.62	0.0	0.0	0.0	4.80	5.87	0.00	5.87	0.00	2.08	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
415	8.500	26.62	0.0	0.0	0.0	4.80	5.86	0.00	5.86	0.00	2.09	0.15	0.10	2.33	0.00	0.0	0.0	0.	0.00
416	8.400	26.61	0.0	0.0	0.0	4.81	5.85	0.00	5.85	0.00	2.09	0.15	0.10	2.34	0.00	0.0	0.0	0.	0.00
417	8.300	26.61	0.0	0.0	0.0	4.81	5.84	0.00	5.84	0.00	2.09	0.15	0.10	2.34	0.00	0.0	0.0	0.	0.00
418	8.200	26.61	0.0	0.0	0.0	4.81	5.83	0.00	5.83	0.00	2.09	0.15	0.10	2.34	0.00	0.0	0.0	0.	0.00
419	8.100	26.60	0.0	0.0	0.0	4.84	6.15	0.00	6.15	0.00	2.03	0.14	0.12	2.28	0.00	0.0	0.0	0.	0.00
420	8.000	26.60	0.0	0.0	0.0	4.86	6.14	0.00	6.14	0.00	2.03	0.14	0.12	2.28	0.00	0.0	0.0	0.	0.00
421	7.900	26.60	0.0	0.0	0.0	4.86	6.13	0.00	6.13	0.00	2.03	0.14	0.12	2.28	0.00	0.0	0.0	0.	0.00
422	7.800	26.60	0.0	0.0	0.0	4.86	6.12	0.00	6.12	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
423	7.700	26.60	0.0	0.0	0.0	4.86	6.11	0.00	6.11	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
424	7.600	26.60	0.0	0.0	0.0	4.85	6.11	0.00	6.11	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
425	7.500	26.60	0.0	0.0	0.0	4.85	6.10	0.00	6.10	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
426	7.400	26.60	0.0	0.0	0.0	4.85	6.09	0.00	6.09	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
427	7.300	26.60	0.0	0.0	0.0	4.85	6.08	0.00	6.08	0.00	2.03	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
428	7.200	26.60	0.0	0.0	0.0	4.85	6.07	0.00	6.07	0.00	2.04	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
429	7.100	26.60	0.0	0.0	0.0	4.85	6.06	0.00	6.06	0.00	2.04	0.14	0.12	2.29	0.00	0.0	0.0	0.	0.00
430	7.000	26.60	0.0	0.0	0.0	4.85	6.05	0.00	6.05	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
431	6.900	26.60	0.0	0.0	0.0	4.85	6.05	0.00	6.05	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
432	6.800	26.60	0.0	0.0	0.0	4.85	6.04	0.00	6.04	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
433	6.700	26.60	0.0	0.0	0.0	4.84	6.03	0.00	6.03	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
434	6.600	26.60	0.0	0.0	0.0	4.84	6.02	0.00	6.02	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00

435	6.500	26.60	0.0	0.0	0.0	4.84	6.01	0.00	6.01	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
436	6.400	26.60	0.0	0.0	0.0	4.84	6.00	0.00	6.00	0.00	2.04	0.14	0.12	2.30	0.00	0.0	0.0	0.	0.00
437	6.300	26.60	0.0	0.0	0.0	4.84	5.99	0.00	5.99	0.00	2.04	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
438	6.200	26.60	0.0	0.0	0.0	4.84	5.99	0.00	5.99	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
439	6.100	26.60	0.0	0.0	0.0	4.84	5.98	0.00	5.98	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
440	6.000	26.60	0.0	0.0	0.0	4.84	5.97	0.00	5.97	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
441	5.900	26.60	0.0	0.0	0.0	4.84	5.96	0.00	5.96	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
442	5.800	26.60	0.0	0.0	0.0	4.84	5.95	0.00	5.95	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
443	5.700	26.60	0.0	0.0	0.0	4.84	5.94	0.00	5.94	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
444	5.600	26.60	0.0	0.0	0.0	4.84	5.93	0.00	5.93	0.00	2.05	0.14	0.12	2.31	0.00	0.0	0.0	0.	0.00
445	5.500	26.60	0.0	0.0	0.0	4.84	5.93	0.00	5.93	0.00	2.05	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
446	5.400	26.60	0.0	0.0	0.0	4.84	5.92	0.00	5.92	0.00	2.05	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
447	5.300	26.60	0.0	0.0	0.0	4.84	5.91	0.00	5.91	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
448	5.200	26.60	0.0	0.0	0.0	4.84	5.90	0.00	5.90	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
449	5.100	26.60	0.0	0.0	0.0	4.84	5.89	0.00	5.89	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
450	5.000	26.60	0.0	0.0	0.0	4.84	5.88	0.00	5.88	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
451	4.900	26.60	0.0	0.0	0.0	4.84	5.88	0.00	5.88	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
452	4.800	26.60	0.0	0.0	0.0	4.84	5.87	0.00	5.87	0.00	2.06	0.14	0.12	2.32	0.00	0.0	0.0	0.	0.00
453	4.700	26.60	0.0	0.0	0.0	4.84	5.86	0.00	5.86	0.00	2.06	0.14	0.12	2.33	0.00	0.0	0.0	0.	0.00
454	4.600	26.60	0.0	0.0	0.0	4.84	5.85	0.00	5.85	0.00	2.06	0.14	0.12	2.33	0.00	0.0	0.0	0.	0.00
455	4.500	26.60	0.0	0.0	0.0	4.84	5.84	0.00	5.84	0.00	2.06	0.14	0.12	2.33	0.00	0.0	0.0	0.	0.00
456	4.400	26.60	0.0	0.0	0.0	4.84	5.83	0.00	5.83	0.00	2.07	0.14	0.12	2.33	0.00	0.0	0.0	0.	0.00
457	4.300	26.60	0.0	0.0	0.0	4.84	5.83	0.00	5.83	0.00	2.07	0.14	0.12	2.33	0.00	0.0	0.0	0.	0.00
458	4.200	26.60	0.0	0.0	0.0	4.84	5.82	0.00	5.82	0.00	2.07	0.15	0.12	2.33	0.00	0.0	0.0	0.	0.00
459	4.100	26.60	0.0	0.0	0.0	4.84	5.81	0.00	5.81	0.00	2.07	0.15	0.12	2.33	0.00	0.0	0.0	0.	0.00
460	4.000	26.60	0.0	0.0	0.0	4.84	5.80	0.00	5.80	0.00	2.07	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
461	3.900	26.60	0.0	0.0	0.0	4.84	5.79	0.00	5.79	0.00	2.07	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
462	3.800	26.60	0.0	0.0	0.0	4.84	5.78	0.00	5.78	0.00	2.07	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
463	3.700	26.60	0.0	0.0	0.0	4.84	5.78	0.00	5.78	0.00	2.07	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
464	3.600	26.60	0.0	0.0	0.0	4.84	5.77	0.00	5.77	0.00	2.07	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
465	3.500	26.60	0.0	0.0	0.0	4.84	5.76	0.00	5.76	0.00	2.08	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
466	3.400	26.60	0.0	0.0	0.0	4.84	5.75	0.00	5.75	0.00	2.08	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
467	3.300	26.60	0.0	0.0	0.0	4.84	5.74	0.00	5.74	0.00	2.08	0.15	0.12	2.34	0.00	0.0	0.0	0.	0.00
468	3.200	26.60	0.0	0.0	0.0	4.84	5.73	0.00	5.73	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
469	3.100	26.60	0.0	0.0	0.0	4.84	5.73	0.00	5.73	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
470	3.000	26.60	0.0	0.0	0.0	4.84	5.72	0.00	5.72	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
471	2.900	26.60	0.0	0.0	0.0	4.84	5.71	0.00	5.71	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
472	2.800	26.60	0.0	0.0	0.0	4.84	5.70	0.00	5.70	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
473	2.700	26.60	0.0	0.0	0.0	4.84	5.69	0.00	5.69	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
474	2.600	26.60	0.0	0.0	0.0	4.84	5.69	0.00	5.69	0.00	2.08	0.15	0.12	2.35	0.00	0.0	0.0	0.	0.00
475	2.500	26.60	0.0	0.0	0.0	4.84	5.68	0.00	5.68	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
476	2.400	26.60	0.0	0.0	0.0	4.84	5.67	0.00	5.67	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
477	2.300	26.60	0.0	0.0	0.0	4.84	5.66	0.00	5.66	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
478	2.200	26.60	0.0	0.0	0.0	4.84	5.65	0.00	5.65	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
479	2.100	26.60	0.0	0.0	0.0	4.84	5.65	0.00	5.65	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
480	2.000	26.60	0.0	0.0	0.0	4.84	5.64	0.00	5.64	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
481	1.900	26.60	0.0	0.0	0.0	4.84	5.63	0.00	5.63	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
482	1.800	26.60	0.0	0.0	0.0	4.84	5.62	0.00	5.62	0.00	2.09	0.15	0.12	2.36	0.00	0.0	0.0	0.	0.00
483	1.700	26.60	0.0	0.0	0.0	4.84	5.61	0.00	5.61	0.00	2.09	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
484	1.600	26.60	0.0	0.0	0.0	4.84	5.61	0.00	5.61	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
485	1.500	26.60	0.0	0.0	0.0	4.84	5.60	0.00	5.60	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
486	1.400	26.60	0.0	0.0	0.0	4.84	5.59	0.00	5.59	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00

487	1.300	26.60	0.0	0.0	0.0	4.84	5.58	0.00	5.58	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
488	1.200	26.60	0.0	0.0	0.0	4.84	5.57	0.00	5.57	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
489	1.100	26.60	0.0	0.0	0.0	4.84	5.57	0.00	5.57	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
490	1.000	26.60	0.0	0.0	0.0	4.84	5.56	0.00	5.56	0.00	2.10	0.15	0.12	2.37	0.00	0.0	0.0	0.	0.00
491	0.900	26.60	0.0	0.0	0.0	4.84	5.55	0.00	5.55	0.00	2.10	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
492	0.800	26.60	0.0	0.0	0.0	4.84	5.54	0.00	5.54	0.00	2.10	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
493	0.700	26.60	0.0	0.0	0.0	4.84	5.53	0.00	5.53	0.00	2.11	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
494	0.600	26.60	0.0	0.0	0.0	4.84	5.53	0.00	5.53	0.00	2.11	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
495	0.500	26.60	0.0	0.0	0.0	4.84	5.52	0.00	5.52	0.00	2.11	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
496	0.400	26.60	0.0	0.0	0.0	4.84	5.51	0.00	5.51	0.00	2.11	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
497	0.300	26.60	0.0	0.0	0.0	4.84	5.50	0.00	5.50	0.00	2.11	0.15	0.12	2.38	0.00	0.0	0.0	0.	0.00
498	0.200	26.60	0.0	0.0	0.0	4.84	5.49	0.00	5.49	0.00	2.11	0.15	0.12	2.39	0.00	0.0	0.0	0.	0.00
499	0.100	26.60	0.0	0.0	0.0	4.84	5.49	0.00	5.49	0.00	2.11	0.15	0.12	2.39	0.00	0.0	0.0	0.	0.00
500	0.000	26.60	0.0	0.0	0.0	4.84	5.48	0.00	5.48	0.00	2.11	0.15	0.12	2.39	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Pierre
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#2 SETT 1/da	ABOD#2 DECAY 1/da	FULL SOD *	CORR SOD *	ORG-N DECAY 1/da	ORG-N SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	49.900	7.44	4.14	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.02	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	49.800	7.45	4.13	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.02	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	49.700	7.46	4.13	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	49.600	7.47	4.12	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	49.500	7.49	4.12	0.06	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	49.400	7.50	4.11	0.06	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	49.300	7.51	4.10	0.06	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	49.200	7.52	4.10	0.06	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	49.100	7.53	4.09	0.06	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	49.000	7.54	4.08	0.06	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	48.900	7.55	4.08	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	48.800	7.56	4.07	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	48.700	7.58	4.07	0.06	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	48.600	7.59	4.06	0.06	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	48.500	7.60	4.05	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	48.400	7.61	4.05	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	48.300	7.62	4.04	0.06	0.00	0.00	0.00	0.00	0.00	0.91	0.91	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	48.200	7.63	4.04	0.06	0.00	0.00	0.00	0.00	0.00	0.91	0.91	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	48.100	7.64	4.03	0.06	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	48.000	7.66	4.02	0.06	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	47.900	7.67	4.02	0.06	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	47.800	7.68	4.01	0.06	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	47.700	7.69	4.01	0.06	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	47.600	7.70	4.00	0.06	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	47.500	7.71	3.99	0.06	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	47.400	7.73	3.99	0.06	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	47.300	7.74	3.98	0.06	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	47.200	7.75	3.98	0.06	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	47.100	7.76	3.97	0.06	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

30	47.000	7.77	3.96	0.06	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	46.900	7.79	3.96	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	46.800	7.80	3.95	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	46.700	7.81	3.94	0.06	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	46.600	7.82	3.94	0.06	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	46.500	7.83	3.93	0.06	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	46.400	7.85	3.93	0.06	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	46.300	7.86	3.92	0.06	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	46.200	7.87	3.91	0.06	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	46.100	7.88	3.91	0.06	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	46.000	7.89	3.90	0.06	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	45.900	7.91	3.90	0.06	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	45.800	7.92	3.89	0.06	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	45.700	7.93	3.88	0.06	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	45.600	7.94	3.88	0.06	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	45.500	7.96	3.87	0.06	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	45.400	7.97	3.87	0.06	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	45.300	7.98	3.86	0.05	0.00	0.00	0.00	0.00	0.00	0.77	0.77	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	45.200	7.99	3.85	0.05	0.00	0.00	0.00	0.00	0.00	0.77	0.77	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	45.100	8.01	3.85	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	45.000	8.02	3.84	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	44.900	8.03	3.84	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	44.800	8.04	3.83	0.05	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	44.700	8.06	3.82	0.05	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	44.600	8.07	3.82	0.05	0.00	0.00	0.00	0.00	0.00	0.74	0.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	44.500	8.08	3.81	0.05	0.00	0.00	0.00	0.00	0.00	0.74	0.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	44.400	8.09	3.81	0.05	0.00	0.00	0.00	0.00	0.00	0.74	0.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	44.300	8.11	3.80	0.05	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	44.200	8.12	3.79	0.05	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	44.100	8.13	3.79	0.05	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	44.000	8.15	3.78	0.05	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	43.900	8.16	3.78	0.05	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	43.800	8.17	3.77	0.05	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	43.700	8.18	3.76	0.05	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	43.600	8.20	3.76	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	43.500	8.21	3.75	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	43.400	8.22	3.75	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	43.300	8.24	3.74	0.05	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	43.200	8.25	11.02	0.05	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	43.100	8.26	11.00	0.05	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.02	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	43.000	8.26	7.77	0.49	0.00	0.00	0.00	0.00	0.00	10.28	10.28	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	42.900	8.26	7.77	0.49	0.00	0.00	0.00	0.00	0.00	10.29	10.29	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	42.800	8.26	7.78	0.49	0.00	0.00	0.00	0.00	0.00	10.30	10.30	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	42.700	8.26	7.78	0.49	0.00	0.00	0.00	0.00	0.00	10.31	10.31	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	42.600	8.25	7.78	0.49	0.00	0.00	0.00	0.00	0.00	10.32	10.32	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	42.500	8.25	7.78	0.49	0.00	0.00	0.00	0.00	0.00	10.33	10.33	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	42.400	8.25	7.78	0.49	0.00	0.00	0.00	0.00	0.00	10.34	10.34	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	42.300	8.25	7.79	0.49	0.00	0.00	0.00	0.00	0.00	10.34	10.34	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	42.200	8.25	7.79	0.49	0.00	0.00	0.00	0.00	0.00	10.35	10.35	0.02	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	42.100	8.24	7.79	0.49	0.00	0.00	0.00	0.00	0.00	10.36	10.36	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	42.000	8.24	7.79	0.49	0.00	0.00	0.00	0.00	0.00	10.37	10.37	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	41.900	8.24	7.79	0.49	0.00	0.00	0.00	0.00	0.00	10.38	10.38	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

82	41.800	8.24	7.80	0.49	0.00	0.00	0.00	0.00	0.00	10.39	10.39	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	41.700	8.24	7.80	0.49	0.00	0.00	0.00	0.00	0.00	10.40	10.40	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	41.600	8.23	7.80	0.50	0.00	0.00	0.00	0.00	0.00	10.40	10.40	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	41.500	8.23	7.80	0.50	0.00	0.00	0.00	0.00	0.00	10.41	10.41	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	41.400	8.23	7.80	0.50	0.00	0.00	0.00	0.00	0.00	10.42	10.42	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	41.300	8.23	7.80	0.50	0.00	0.00	0.00	0.00	0.00	10.43	10.43	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	41.200	8.23	7.81	0.50	0.00	0.00	0.00	0.00	0.00	10.44	10.44	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	41.100	8.22	7.81	0.50	0.00	0.00	0.00	0.00	0.00	10.45	10.45	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	41.000	8.22	7.81	0.50	0.00	0.00	0.00	0.00	0.00	10.46	10.46	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	40.900	8.22	7.81	0.50	0.00	0.00	0.00	0.00	0.00	10.47	10.47	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	40.800	8.22	7.81	0.50	0.00	0.00	0.00	0.00	0.00	10.47	10.47	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	40.700	8.21	7.82	0.50	0.00	0.00	0.00	0.00	0.00	10.48	10.48	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	40.600	8.21	7.82	0.50	0.00	0.00	0.00	0.00	0.00	10.49	10.49	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	40.500	8.21	7.82	0.50	0.00	0.00	0.00	0.00	0.00	10.50	10.50	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	40.400	8.21	7.82	0.50	0.00	0.00	0.00	0.00	0.00	10.51	10.51	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	40.300	8.21	7.82	0.50	0.00	0.00	0.00	0.00	0.00	10.52	10.52	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	40.200	8.21	7.83	0.50	0.00	0.00	0.00	0.00	0.00	10.53	10.53	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	40.100	8.20	7.83	0.50	0.00	0.00	0.00	0.00	0.00	10.54	10.54	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	40.000	8.20	7.83	0.50	0.00	0.00	0.00	0.00	0.00	10.54	10.54	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	39.900	8.20	7.83	0.50	0.00	0.00	0.00	0.00	0.00	10.55	10.55	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	39.800	8.20	7.83	0.50	0.00	0.00	0.00	0.00	0.00	10.56	10.56	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	39.700	8.20	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.57	10.57	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	39.600	8.19	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.58	10.58	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	39.500	8.19	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.59	10.59	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	39.400	8.19	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.60	10.60	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	39.300	8.19	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.61	10.61	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	39.200	8.19	7.84	0.50	0.00	0.00	0.00	0.00	0.00	10.61	10.61	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	39.100	8.18	7.85	0.50	0.00	0.00	0.00	0.00	0.00	10.62	10.62	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	39.000	8.18	7.85	0.50	0.00	0.00	0.00	0.00	0.00	10.63	10.63	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	38.900	8.18	7.85	0.50	0.00	0.00	0.00	0.00	0.00	10.64	10.64	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	38.800	8.18	7.85	0.50	0.00	0.00	0.00	0.00	0.00	10.65	10.65	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	38.700	8.18	7.85	0.50	0.00	0.00	0.00	0.00	0.00	10.66	10.66	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	38.600	8.17	7.86	0.50	0.00	0.00	0.00	0.00	0.00	10.67	10.67	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	38.500	8.17	7.86	0.50	0.00	0.00	0.00	0.00	0.00	10.68	10.68	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	38.400	8.17	7.86	0.50	0.00	0.00	0.00	0.00	0.00	10.69	10.69	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	38.300	8.17	7.86	0.51	0.00	0.00	0.00	0.00	0.00	10.69	10.69	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	38.200	8.17	7.86	0.51	0.00	0.00	0.00	0.00	0.00	10.70	10.70	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	38.100	8.16	7.87	0.51	0.00	0.00	0.00	0.00	0.00	10.71	10.71	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	38.000	8.16	7.87	0.51	0.00	0.00	0.00	0.00	0.00	10.72	10.72	0.02	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	37.900	8.16	7.87	0.51	0.00	0.00	0.00	0.00	0.00	10.73	10.73	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	37.800	8.16	7.87	0.51	0.00	0.00	0.00	0.00	0.00	10.74	10.74	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	37.700	8.16	7.87	0.51	0.00	0.00	0.00	0.00	0.00	10.75	10.75	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	37.600	8.15	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.76	10.76	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	37.500	8.15	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.77	10.77	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	37.400	8.15	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.77	10.77	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	37.300	8.15	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.78	10.78	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	37.200	8.15	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.79	10.79	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	37.100	8.14	7.88	0.51	0.00	0.00	0.00	0.00	0.00	10.80	10.80	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	37.000	8.14	7.89	0.51	0.00	0.00	0.00	0.00	0.00	10.81	10.81	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	36.900	8.14	7.89	0.51	0.00	0.00	0.00	0.00	0.00	10.82	10.82	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	36.800	8.14	7.89	0.51	0.00	0.00	0.00	0.00	0.00	10.83	10.83	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	36.700	8.14	7.89	0.51	0.00	0.00	0.00	0.00	0.00	10.84	10.84	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

134	36.600	8.13	7.89	0.51	0.00	0.00	0.00	0.00	0.00	10.85	10.85	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	36.500	8.13	7.90	0.51	0.00	0.00	0.00	0.00	0.00	10.86	10.86	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	36.400	8.13	7.90	0.51	0.00	0.00	0.00	0.00	0.00	10.87	10.87	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	36.300	8.13	7.90	0.51	0.00	0.00	0.00	0.00	0.00	10.87	10.87	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	36.200	8.13	7.90	0.51	0.00	0.00	0.00	0.00	0.00	10.88	10.88	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	36.100	8.12	7.90	0.51	0.00	0.00	0.00	0.00	0.00	10.89	10.89	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	36.000	8.12	7.91	0.51	0.00	0.00	0.00	0.00	0.00	10.90	10.90	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	35.900	8.12	7.91	0.51	0.00	0.00	0.00	0.00	0.00	10.91	10.91	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	35.800	8.12	7.91	0.51	0.00	0.00	0.00	0.00	0.00	10.92	10.92	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	35.700	8.12	7.91	0.51	0.00	0.00	0.00	0.00	0.00	10.93	10.93	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	35.600	8.11	7.91	0.51	0.00	0.00	0.00	0.00	0.00	10.94	10.94	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	35.500	8.11	7.92	0.51	0.00	0.00	0.00	0.00	0.00	10.95	10.95	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	35.400	8.11	7.92	0.51	0.00	0.00	0.00	0.00	0.00	10.96	10.96	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	35.300	8.11	7.92	0.51	0.00	0.00	0.00	0.00	0.00	10.96	10.96	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	35.200	8.11	7.92	0.51	0.00	0.00	0.00	0.00	0.00	10.97	10.97	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	35.100	8.10	7.92	0.52	0.00	0.00	0.00	0.00	0.00	10.98	10.98	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	35.000	8.10	7.92	0.52	0.00	0.00	0.00	0.00	0.00	10.99	10.99	0.02	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	34.900	8.10	7.93	0.52	0.00	0.00	0.00	0.00	0.00	11.00	11.00	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	34.800	8.10	7.93	0.52	0.00	0.00	0.00	0.00	0.00	11.01	11.01	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	34.700	8.10	7.93	0.52	0.00	0.00	0.00	0.00	0.00	11.02	11.02	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	34.600	8.10	7.93	0.52	0.00	0.00	0.00	0.00	0.00	11.03	11.03	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	34.500	8.09	7.93	0.52	0.00	0.00	0.00	0.00	0.00	11.04	11.04	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	34.400	8.09	7.94	0.52	0.00	0.00	0.00	0.00	0.00	11.05	11.05	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	34.300	8.09	7.94	0.52	0.00	0.00	0.00	0.00	0.00	11.06	11.06	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	34.200	8.09	7.94	0.52	0.00	0.00	0.00	0.00	0.00	11.07	11.07	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	34.100	8.09	7.94	0.52	0.00	0.00	0.00	0.00	0.00	11.08	11.08	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	34.000	8.08	7.94	0.52	0.00	0.00	0.00	0.00	0.00	11.08	11.08	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	33.900	8.08	7.95	0.52	0.00	0.00	0.00	0.00	0.00	11.09	11.09	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	33.800	8.08	7.95	0.52	0.00	0.00	0.00	0.00	0.00	11.10	11.10	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	33.700	8.08	7.95	0.52	0.00	0.00	0.00	0.00	0.00	11.11	11.11	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	33.600	8.08	7.95	0.52	0.00	0.00	0.00	0.00	0.00	11.12	11.12	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	33.500	8.07	7.95	0.52	0.00	0.00	0.00	0.00	0.00	11.13	11.13	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	33.400	8.07	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.14	11.14	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	33.300	8.07	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.15	11.15	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	33.200	8.07	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.16	11.16	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	33.100	8.07	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.17	11.17	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	33.000	8.06	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.18	11.18	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	32.900	8.06	7.96	0.52	0.00	0.00	0.00	0.00	0.00	11.19	11.19	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	32.800	8.06	7.97	0.52	0.00	0.00	0.00	0.00	0.00	11.20	11.20	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	32.700	8.06	7.97	0.52	0.00	0.00	0.00	0.00	0.00	11.20	11.20	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	32.600	8.06	7.97	0.52	0.00	0.00	0.00	0.00	0.00	11.21	11.21	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	32.500	8.05	7.97	0.52	0.00	0.00	0.00	0.00	0.00	11.22	11.22	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	32.400	8.05	7.97	0.52	0.00	0.00	0.00	0.00	0.00	11.23	11.23	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	32.300	8.05	7.98	0.52	0.00	0.00	0.00	0.00	0.00	11.24	11.24	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	32.200	8.05	7.98	0.52	0.00	0.00	0.00	0.00	0.00	11.25	11.25	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	32.100	8.05	7.98	0.52	0.00	0.00	0.00	0.00	0.00	11.26	11.26	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	32.000	8.05	7.98	0.52	0.00	0.00	0.00	0.00	0.00	11.27	11.27	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	31.900	8.04	7.98	0.53	0.00	0.00	0.00	0.00	0.00	11.28	11.28	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	31.800	8.04	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.29	11.29	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	31.700	8.04	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.30	11.30	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	31.600	8.04	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.31	11.31	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	31.500	8.04	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.32	11.32	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

186	31.400	8.03	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.33	11.33	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	31.300	8.03	7.99	0.53	0.00	0.00	0.00	0.00	0.00	11.34	11.34	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	31.200	8.03	8.00	0.53	0.00	0.00	0.00	0.00	0.00	11.35	11.35	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189	31.100	8.03	8.00	0.53	0.00	0.00	0.00	0.00	0.00	11.36	11.36	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	31.000	8.03	8.00	0.53	0.00	0.00	0.00	0.00	0.00	11.36	11.36	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	30.900	8.02	8.00	0.53	0.00	0.00	0.00	0.00	0.00	11.37	11.37	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	30.800	8.02	8.00	0.53	0.00	0.00	0.00	0.00	0.00	11.38	11.38	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	30.700	8.02	8.01	0.53	0.00	0.00	0.00	0.00	0.00	11.39	11.39	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	30.600	8.02	8.01	0.53	0.00	0.00	0.00	0.00	0.00	11.40	11.40	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	30.500	8.02	8.01	0.53	0.00	0.00	0.00	0.00	0.00	11.41	11.41	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	30.400	8.01	8.01	0.53	0.00	0.00	0.00	0.00	0.00	11.42	11.42	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	30.300	8.01	8.01	0.53	0.00	0.00	0.00	0.00	0.00	11.43	11.43	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	30.200	8.01	8.02	0.53	0.00	0.00	0.00	0.00	0.00	11.44	11.44	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	30.100	8.01	8.02	0.53	0.00	0.00	0.00	0.00	0.00	11.45	11.45	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	30.000	8.01	8.02	0.53	0.00	0.00	0.00	0.00	0.00	11.46	11.46	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	29.900	8.00	8.02	0.53	0.00	0.00	0.00	0.00	0.00	11.47	11.47	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	29.800	8.00	8.02	0.53	0.00	0.00	0.00	0.00	0.00	11.48	11.48	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	29.700	8.00	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.49	11.49	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	29.600	8.00	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.50	11.50	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	29.500	8.00	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.51	11.51	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	29.400	8.00	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.52	11.52	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	29.300	7.99	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.53	11.53	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	29.200	7.99	8.03	0.53	0.00	0.00	0.00	0.00	0.00	11.54	11.54	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	29.100	7.99	8.04	0.53	0.00	0.00	0.00	0.00	0.00	11.55	11.55	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	29.000	7.99	8.04	0.53	0.00	0.00	0.00	0.00	0.00	11.56	11.56	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	28.900	7.99	8.04	0.53	0.00	0.00	0.00	0.00	0.00	11.56	11.56	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	28.800	7.98	8.04	0.54	0.00	0.00	0.00	0.00	0.00	11.57	11.57	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	28.700	7.98	8.04	0.54	0.00	0.00	0.00	0.00	0.00	11.58	11.58	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	28.600	7.98	8.05	0.54	0.00	0.00	0.00	0.00	0.00	11.59	11.59	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	28.500	7.98	8.05	0.54	0.00	0.00	0.00	0.00	0.00	11.60	11.60	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	28.400	7.98	8.05	0.54	0.00	0.00	0.00	0.00	0.00	11.61	11.61	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	28.300	7.97	8.05	0.54	0.00	0.00	0.00	0.00	0.00	11.62	11.62	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	28.200	7.97	8.05	0.54	0.00	0.00	0.00	0.00	0.00	11.63	11.63	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	28.100	7.97	8.06	0.54	0.00	0.00	0.00	0.00	0.00	11.64	11.64	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	28.000	7.97	8.06	0.54	0.00	0.00	0.00	0.00	0.00	11.65	11.65	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	27.900	7.97	8.06	0.54	0.00	0.00	0.00	0.00	0.00	11.66	11.66	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	27.800	7.96	8.06	0.54	0.00	0.00	0.00	0.00	0.00	11.67	11.67	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	27.700	7.96	8.06	0.54	0.00	0.00	0.00	0.00	0.00	11.68	11.68	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	27.600	7.96	8.07	0.54	0.00	0.00	0.00	0.00	0.00	11.69	11.69	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	27.500	7.96	8.07	0.54	0.00	0.00	0.00	0.00	0.00	11.70	11.70	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	27.400	7.96	8.07	0.54	0.00	0.00	0.00	0.00	0.00	11.71	11.71	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	27.300	7.96	8.07	0.54	0.00	0.00	0.00	0.00	0.00	11.72	11.72	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	27.200	7.95	8.07	0.54	0.00	0.00	0.00	0.00	0.00	11.73	11.73	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	27.100	7.95	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.74	11.74	0.02	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	27.000	7.95	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.75	11.75	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	26.900	7.95	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.76	11.76	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	26.800	7.95	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.77	11.77	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	26.700	7.94	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.78	11.78	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	26.600	7.94	8.08	0.54	0.00	0.00	0.00	0.00	0.00	11.79	11.79	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	26.500	7.94	8.09	0.54	0.00	0.00	0.00	0.00	0.00	11.80	11.80	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	26.400	7.94	8.09	0.54	0.00	0.00	0.00	0.00	0.00	11.81	11.81	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	26.300	7.94	8.09	0.54	0.00	0.00	0.00	0.00	0.00	11.82	11.82	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

238	26.200	7.93	8.09	0.54	0.00	0.00	0.00	0.00	0.00	11.83	11.83	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	26.100	7.93	8.09	0.54	0.00	0.00	0.00	0.00	0.00	11.84	11.84	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240	26.000	7.93	8.10	0.54	0.00	0.00	0.00	0.00	0.00	11.85	11.85	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	25.900	7.93	8.10	0.54	0.00	0.00	0.00	0.00	0.00	11.86	11.86	0.02	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
242	25.800	7.93	11.47	0.55	0.00	0.00	0.00	0.00	0.00	11.87	11.87	0.02	0.00	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	25.700	7.93	11.47	0.55	0.00	0.00	0.00	0.00	0.00	11.88	11.88	0.02	0.00	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	25.600	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.87	11.87	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	25.500	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.87	11.87	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	25.400	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.87	11.87	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	25.300	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.86	11.86	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	25.200	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.86	11.86	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
249	25.100	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.86	11.86	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	25.000	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.86	11.86	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	24.900	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.85	11.85	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	24.800	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.85	11.85	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	24.700	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.85	11.85	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	24.600	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.84	11.84	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	24.500	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.84	11.84	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	24.400	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.84	11.84	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	24.300	7.93	9.60	0.31	0.00	0.00	0.00	0.00	0.00	11.83	11.83	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	24.200	7.93	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.83	11.83	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	24.100	7.93	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.83	11.83	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	24.000	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.82	11.82	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	23.900	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.82	11.82	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	23.800	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.82	11.82	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	23.700	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.82	11.82	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	23.600	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.81	11.81	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	23.500	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.81	11.81	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	23.400	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.81	11.81	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	23.300	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.80	11.80	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	23.200	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.80	11.80	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	23.100	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.80	11.80	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	23.000	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.79	11.79	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	22.900	7.94	9.59	0.31	0.00	0.00	0.00	0.00	0.00	11.79	11.79	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	22.800	7.94	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.79	11.79	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	22.700	7.94	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.78	11.78	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	22.600	7.94	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.78	11.78	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	22.500	7.94	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.78	11.78	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	22.400	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.77	11.77	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	22.300	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.77	11.77	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	22.200	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.77	11.77	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	22.100	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.77	11.77	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	22.000	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.76	11.76	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	21.900	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.76	11.76	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	21.800	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.76	11.76	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	21.700	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.75	11.75	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	21.600	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.75	11.75	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	21.500	7.95	9.58	0.31	0.00	0.00	0.00	0.00	0.00	11.75	11.75	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	21.400	7.95	9.57	0.31	0.00	0.00	0.00	0.00	0.00	11.74	11.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	21.300	7.95	9.57	0.31	0.00	0.00	0.00	0.00	0.00	11.74	11.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	21.200	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.74	11.74	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	21.100	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.73	11.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

290	21.000	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.73	11.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	20.900	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.73	11.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	20.800	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.73	11.73	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	20.700	7.95	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.72	11.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	20.600	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.72	11.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	20.500	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.72	11.72	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	20.400	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.71	11.71	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	20.300	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.71	11.71	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	20.200	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.71	11.71	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	20.100	7.96	9.57	0.30	0.00	0.00	0.00	0.00	0.00	11.70	11.70	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	20.000	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.70	11.70	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	19.900	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.70	11.70	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	19.800	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.69	11.69	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	19.700	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.69	11.69	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	19.600	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.69	11.69	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	19.500	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.69	11.69	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
306	19.400	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.68	11.68	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	19.300	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.68	11.68	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308	19.200	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.68	11.68	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309	19.100	7.96	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.67	11.67	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310	19.000	7.97	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.67	11.67	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	18.900	7.97	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.67	11.67	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
312	18.800	7.97	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.66	11.66	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
313	18.700	7.97	9.56	0.30	0.00	0.00	0.00	0.00	0.00	11.66	11.66	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
314	18.600	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.66	11.66	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315	18.500	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.65	11.65	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
316	18.400	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.65	11.65	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
317	18.300	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.65	11.65	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
318	18.200	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.65	11.65	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
319	18.100	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.64	11.64	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320	18.000	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.64	11.64	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
321	17.900	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.64	11.64	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322	17.800	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.63	11.63	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
323	17.700	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.63	11.63	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
324	17.600	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.63	11.63	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
325	17.500	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.62	11.62	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
326	17.400	7.97	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.62	11.62	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
327	17.300	7.98	9.55	0.30	0.00	0.00	0.00	0.00	0.00	11.62	11.62	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
328	17.200	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.62	11.62	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
329	17.100	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.61	11.61	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330	17.000	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.61	11.61	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
331	16.900	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.61	11.61	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
332	16.800	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.60	11.60	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
333	16.700	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.60	11.60	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
334	16.600	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.60	11.60	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
335	16.500	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.59	11.59	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
336	16.400	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.59	11.59	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337	16.300	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.59	11.59	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338	16.200	7.98	9.54	0.30	0.00	0.00	0.00	0.00	0.00	11.58	11.58	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
339	16.100	7.98	11.29	0.30	0.00	0.00	0.00	0.00	0.00	11.58	11.58	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
340	16.000	7.98	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.12	13.12	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
341	15.900	7.98	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.12	13.12	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

342	15.800	7.98	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.12	13.12	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
343	15.700	7.98	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.11	13.11	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
344	15.600	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.11	13.11	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345	15.500	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.11	13.11	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
346	15.400	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.10	13.10	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
347	15.300	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.10	13.10	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
348	15.200	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.10	13.10	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349	15.100	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.10	13.10	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350	15.000	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.09	13.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
351	14.900	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.09	13.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
352	14.800	7.99	10.07	0.30	0.00	0.00	0.00	0.00	0.00	13.09	13.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
353	14.700	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.08	13.08	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
354	14.600	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.08	13.08	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
355	14.500	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.08	13.08	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
356	14.400	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.07	13.07	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
357	14.300	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.07	13.07	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
358	14.200	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.07	13.07	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
359	14.100	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.06	13.06	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360	14.000	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.06	13.06	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
361	13.900	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.06	13.06	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
362	13.800	7.99	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.06	13.06	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
363	13.700	8.00	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.05	13.05	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
364	13.600	8.00	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.05	13.05	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
365	13.500	8.00	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.05	13.05	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
366	13.400	8.00	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.04	13.04	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367	13.300	8.00	10.06	0.30	0.00	0.00	0.00	0.00	0.00	13.04	13.04	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
368	13.200	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.04	13.04	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
369	13.100	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.03	13.03	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
370	13.000	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.03	13.03	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
371	12.900	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.03	13.03	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
372	12.800	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.03	13.03	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
373	12.700	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.02	13.02	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
374	12.600	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.02	13.02	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
375	12.500	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.02	13.02	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
376	12.400	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.01	13.01	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
377	12.300	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.01	13.01	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
378	12.200	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.01	13.01	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
379	12.100	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.00	13.00	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
380	12.000	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.00	13.00	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
381	11.900	8.00	10.05	0.30	0.00	0.00	0.00	0.00	0.00	13.00	13.00	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
382	11.800	8.01	10.05	0.30	0.00	0.00	0.00	0.00	0.00	12.99	12.99	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
383	11.700	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.99	12.99	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
384	11.600	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.99	12.99	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
385	11.500	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.99	12.99	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
386	11.400	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.98	12.98	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
387	11.300	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.98	12.98	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
388	11.200	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.98	12.98	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
389	11.100	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.97	12.97	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
390	11.000	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.97	12.97	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
391	10.900	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.97	12.97	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
392	10.800	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.96	12.96	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
393	10.700	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.96	12.96	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

394	10.600	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.96	12.96	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
395	10.500	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.96	12.96	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
396	10.400	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.95	12.95	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
397	10.300	8.01	10.04	0.30	0.00	0.00	0.00	0.00	0.00	12.95	12.95	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
398	10.200	8.01	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.95	12.95	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
399	10.100	8.01	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.94	12.94	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	10.000	8.01	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.94	12.94	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
401	9.900	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.94	12.94	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
402	9.800	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.93	12.93	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
403	9.700	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.93	12.93	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
404	9.600	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.93	12.93	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
405	9.500	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.93	12.93	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
406	9.400	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.92	12.92	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
407	9.300	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.92	12.92	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
408	9.200	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.92	12.92	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
409	9.100	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.91	12.91	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
410	9.000	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.91	12.91	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
411	8.900	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.91	12.91	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
412	8.800	8.02	10.03	0.30	0.00	0.00	0.00	0.00	0.00	12.90	12.90	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
413	8.700	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.90	12.90	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
414	8.600	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.90	12.90	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
415	8.500	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.90	12.90	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
416	8.400	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.89	12.89	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
417	8.300	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.89	12.89	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
418	8.200	8.02	10.02	0.30	0.00	0.00	0.00	0.00	0.00	12.89	12.89	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
419	8.100	8.03	11.33	0.30	0.00	0.00	0.00	0.00	0.00	12.88	12.88	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
420	8.000	8.03	11.33	0.30	0.00	0.00	0.00	0.00	0.00	12.88	12.88	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421	7.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
422	7.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
423	7.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	7.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425	7.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	7.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
427	7.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
428	7.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
429	7.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
430	7.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	6.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
432	6.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
433	6.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
434	6.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
435	6.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
436	6.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	6.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
439	6.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440	6.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441	5.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
442	5.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443	5.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
444	5.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
445	5.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

446	5.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	5.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
448	5.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
449	5.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	5.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
451	4.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
452	4.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
453	4.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
454	4.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455	4.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
456	4.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
457	4.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
458	4.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
459	4.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
460	4.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
461	3.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
462	3.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
463	3.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
464	3.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	3.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
466	3.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
467	3.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
468	3.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	3.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	3.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
471	2.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
472	2.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
473	2.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474	2.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	2.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
476	2.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
477	2.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
478	2.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
479	2.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	2.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
481	1.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
482	1.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483	1.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484	1.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	1.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
486	1.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
487	1.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
488	1.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
489	1.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
490	1.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
491	0.900	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
492	0.800	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
493	0.700	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
494	0.600	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	0.500	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
496	0.400	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
497	0.300	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

498	0.200	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499	0.100	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.000	8.03	10.65	0.30	0.00	0.00	0.00	0.00	0.00	14.09	14.09	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Pierre
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	50.00	49.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
2	49.90	49.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
3	49.80	49.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
4	49.70	49.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
5	49.60	49.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
6	49.50	49.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
7	49.40	49.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
8	49.30	49.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
9	49.20	49.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
10	49.10	49.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
11	49.00	48.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
12	48.90	48.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
13	48.80	48.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
14	48.70	48.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
15	48.60	48.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
16	48.50	48.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
17	48.40	48.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
18	48.30	48.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
19	48.20	48.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
20	48.10	48.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
21	48.00	47.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
22	47.90	47.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
23	47.80	47.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
24	47.70	47.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
25	47.60	47.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
26	47.50	47.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
27	47.40	47.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
28	47.30	47.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
29	47.20	47.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
30	47.10	47.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
31	47.00	46.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
32	46.90	46.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
33	46.80	46.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
34	46.70	46.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
35	46.60	46.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
36	46.50	46.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
37	46.40	46.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
38	46.30	46.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
39	46.20	46.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
40	46.10	46.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013

41	46.00	45.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
42	45.90	45.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
43	45.80	45.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
44	45.70	45.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
45	45.60	45.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
46	45.50	45.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
47	45.40	45.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
48	45.30	45.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
49	45.20	45.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
50	45.10	45.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
51	45.00	44.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
52	44.90	44.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
53	44.80	44.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
54	44.70	44.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
55	44.60	44.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
56	44.50	44.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
57	44.40	44.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
58	44.30	44.20	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
59	44.20	44.10	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
60	44.10	44.00	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
61	44.00	43.90	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
62	43.90	43.80	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
63	43.80	43.70	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
64	43.70	43.60	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
65	43.60	43.50	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
66	43.50	43.40	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
67	43.40	43.30	0.0210	0.013	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.013
68	43.30	43.20	0.4034	0.241	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.241
69	43.20	43.10	0.4034	0.241	0.25	6.7	167.	671.0	1.7	0.	0.000	0.000	0.241
70	43.10	43.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
71	43.00	42.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
72	42.90	42.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
73	42.80	42.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
74	42.70	42.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
75	42.60	42.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
76	42.50	42.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
77	42.40	42.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
78	42.30	42.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
79	42.20	42.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
80	42.10	42.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
81	42.00	41.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
82	41.90	41.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
83	41.80	41.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
84	41.70	41.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
85	41.60	41.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
86	41.50	41.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
87	41.40	41.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
88	41.30	41.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
89	41.20	41.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
90	41.10	41.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
91	41.00	40.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
92	40.90	40.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140

93	40.80	40.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
94	40.70	40.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
95	40.60	40.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
96	40.50	40.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
97	40.40	40.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
98	40.30	40.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
99	40.20	40.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
100	40.10	40.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
101	40.00	39.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
102	39.90	39.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
103	39.80	39.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
104	39.70	39.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
105	39.60	39.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
106	39.50	39.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
107	39.40	39.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
108	39.30	39.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
109	39.20	39.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
110	39.10	39.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
111	39.00	38.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
112	38.90	38.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
113	38.80	38.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
114	38.70	38.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
115	38.60	38.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
116	38.50	38.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
117	38.40	38.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
118	38.30	38.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
119	38.20	38.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
120	38.10	38.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
121	38.00	37.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
122	37.90	37.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
123	37.80	37.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
124	37.70	37.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
125	37.60	37.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
126	37.50	37.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
127	37.40	37.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
128	37.30	37.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
129	37.20	37.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
130	37.10	37.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
131	37.00	36.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
132	36.90	36.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
133	36.80	36.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
134	36.70	36.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
135	36.60	36.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
136	36.50	36.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
137	36.40	36.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
138	36.30	36.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
139	36.20	36.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
140	36.10	36.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
141	36.00	35.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
142	35.90	35.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
143	35.80	35.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
144	35.70	35.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140

145	35.60	35.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
146	35.50	35.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
147	35.40	35.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
148	35.30	35.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
149	35.20	35.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
150	35.10	35.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
151	35.00	34.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
152	34.90	34.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
153	34.80	34.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
154	34.70	34.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
155	34.60	34.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
156	34.50	34.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
157	34.40	34.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
158	34.30	34.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
159	34.20	34.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
160	34.10	34.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
161	34.00	33.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
162	33.90	33.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
163	33.80	33.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
164	33.70	33.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
165	33.60	33.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
166	33.50	33.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
167	33.40	33.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
168	33.30	33.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
169	33.20	33.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
170	33.10	33.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
171	33.00	32.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
172	32.90	32.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
173	32.80	32.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
174	32.70	32.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
175	32.60	32.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
176	32.50	32.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
177	32.40	32.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
178	32.30	32.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
179	32.20	32.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
180	32.10	32.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
181	32.00	31.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
182	31.90	31.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
183	31.80	31.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
184	31.70	31.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
185	31.60	31.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
186	31.50	31.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
187	31.40	31.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
188	31.30	31.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
189	31.20	31.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
190	31.10	31.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
191	31.00	30.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
192	30.90	30.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
193	30.80	30.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
194	30.70	30.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
195	30.60	30.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
196	30.50	30.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140

197	30.40	30.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
198	30.30	30.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
199	30.20	30.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
200	30.10	30.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
201	30.00	29.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
202	29.90	29.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
203	29.80	29.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
204	29.70	29.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
205	29.60	29.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
206	29.50	29.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
207	29.40	29.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
208	29.30	29.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
209	29.20	29.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
210	29.10	29.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
211	29.00	28.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
212	28.90	28.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
213	28.80	28.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
214	28.70	28.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
215	28.60	28.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
216	28.50	28.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
217	28.40	28.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
218	28.30	28.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
219	28.20	28.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
220	28.10	28.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
221	28.00	27.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
222	27.90	27.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
223	27.80	27.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
224	27.70	27.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
225	27.60	27.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
226	27.50	27.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
227	27.40	27.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
228	27.30	27.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
229	27.20	27.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
230	27.10	27.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
231	27.00	26.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
232	26.90	26.80	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
233	26.80	26.70	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
234	26.70	26.60	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
235	26.60	26.50	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
236	26.50	26.40	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
237	26.40	26.30	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
238	26.30	26.20	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
239	26.20	26.10	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
240	26.10	26.00	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
241	26.00	25.90	0.4034	0.140	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.140
242	25.90	25.80	0.8458	0.293	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.293
243	25.80	25.70	0.8458	0.293	0.38	7.7	288.	765.0	2.9	0.	0.000	0.000	0.293
244	25.70	25.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
245	25.60	25.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
246	25.50	25.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
247	25.40	25.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
248	25.30	25.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198

249	25.20	25.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
250	25.10	25.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
251	25.00	24.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
252	24.90	24.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
253	24.80	24.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
254	24.70	24.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
255	24.60	24.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
256	24.50	24.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
257	24.40	24.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
258	24.30	24.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
259	24.20	24.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
260	24.10	24.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
261	24.00	23.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
262	23.90	23.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
263	23.80	23.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
264	23.70	23.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
265	23.60	23.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
266	23.50	23.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
267	23.40	23.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
268	23.30	23.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
269	23.20	23.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
270	23.10	23.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
271	23.00	22.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
272	22.90	22.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
273	22.80	22.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
274	22.70	22.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
275	22.60	22.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
276	22.50	22.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
277	22.40	22.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
278	22.30	22.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
279	22.20	22.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
280	22.10	22.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
281	22.00	21.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
282	21.90	21.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
283	21.80	21.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
284	21.70	21.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
285	21.60	21.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
286	21.50	21.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
287	21.40	21.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
288	21.30	21.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
289	21.20	21.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
290	21.10	21.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
291	21.00	20.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
292	20.90	20.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
293	20.80	20.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
294	20.70	20.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
295	20.60	20.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
296	20.50	20.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
297	20.40	20.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
298	20.30	20.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
299	20.20	20.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
300	20.10	20.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198

301	20.00	19.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
302	19.90	19.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
303	19.80	19.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
304	19.70	19.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
305	19.60	19.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
306	19.50	19.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
307	19.40	19.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
308	19.30	19.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
309	19.20	19.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
310	19.10	19.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
311	19.00	18.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
312	18.90	18.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
313	18.80	18.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
314	18.70	18.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
315	18.60	18.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
316	18.50	18.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
317	18.40	18.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
318	18.30	18.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
319	18.20	18.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
320	18.10	18.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
321	18.00	17.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
322	17.90	17.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
323	17.80	17.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
324	17.70	17.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
325	17.60	17.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
326	17.50	17.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
327	17.40	17.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
328	17.30	17.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
329	17.20	17.10	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
330	17.10	17.00	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
331	17.00	16.90	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
332	16.90	16.80	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
333	16.80	16.70	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
334	16.70	16.60	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
335	16.60	16.50	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
336	16.50	16.40	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
337	16.40	16.30	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
338	16.30	16.20	0.8458	0.198	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.198
339	16.20	16.10	1.0381	0.243	0.42	10.2	427.	1025.0	4.3	0.	0.000	0.000	0.243
340	16.10	16.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
341	16.00	15.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
342	15.90	15.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
343	15.80	15.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
344	15.70	15.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
345	15.60	15.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
346	15.50	15.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
347	15.40	15.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
348	15.30	15.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
349	15.20	15.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
350	15.10	15.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
351	15.00	14.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
352	14.90	14.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218

353	14.80	14.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
354	14.70	14.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
355	14.60	14.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
356	14.50	14.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
357	14.40	14.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
358	14.30	14.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
359	14.20	14.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
360	14.10	14.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
361	14.00	13.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
362	13.90	13.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
363	13.80	13.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
364	13.70	13.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
365	13.60	13.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
366	13.50	13.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
367	13.40	13.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
368	13.30	13.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
369	13.20	13.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
370	13.10	13.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
371	13.00	12.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
372	12.90	12.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
373	12.80	12.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
374	12.70	12.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
375	12.60	12.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
376	12.50	12.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
377	12.40	12.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
378	12.30	12.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
379	12.20	12.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
380	12.10	12.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
381	12.00	11.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
382	11.90	11.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
383	11.80	11.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
384	11.70	11.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
385	11.60	11.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
386	11.50	11.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
387	11.40	11.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
388	11.30	11.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
389	11.20	11.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
390	11.10	11.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
391	11.00	10.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
392	10.90	10.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
393	10.80	10.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
394	10.70	10.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
395	10.60	10.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
396	10.50	10.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
397	10.40	10.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
398	10.30	10.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
399	10.20	10.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
400	10.10	10.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
401	10.00	9.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
402	9.90	9.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
403	9.80	9.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
404	9.70	9.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218

405	9.60	9.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
406	9.50	9.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
407	9.40	9.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
408	9.30	9.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
409	9.20	9.10	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
410	9.10	9.00	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
411	9.00	8.90	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
412	8.90	8.80	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
413	8.80	8.70	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
414	8.70	8.60	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
415	8.60	8.50	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
416	8.50	8.40	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
417	8.40	8.30	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
418	8.30	8.20	1.0381	0.218	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.218
419	8.20	8.10	1.3265	0.278	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.278
420	8.10	8.00	1.3265	0.278	0.43	11.2	477.	1116.0	4.8	0.	0.000	0.000	0.278
421	8.00	7.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
422	7.90	7.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
423	7.80	7.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
424	7.70	7.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
425	7.60	7.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
426	7.50	7.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
427	7.40	7.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
428	7.30	7.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
429	7.20	7.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
430	7.10	7.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
431	7.00	6.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
432	6.90	6.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
433	6.80	6.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
434	6.70	6.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
435	6.60	6.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
436	6.50	6.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
437	6.40	6.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
438	6.30	6.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
439	6.20	6.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
440	6.10	6.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
441	6.00	5.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
442	5.90	5.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
443	5.80	5.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
444	5.70	5.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
445	5.60	5.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
446	5.50	5.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
447	5.40	5.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
448	5.30	5.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
449	5.20	5.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
450	5.10	5.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
451	5.00	4.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
452	4.90	4.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
453	4.80	4.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
454	4.70	4.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
455	4.60	4.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
456	4.50	4.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242

457	4.40	4.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
458	4.30	4.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
459	4.20	4.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
460	4.10	4.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
461	4.00	3.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
462	3.90	3.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
463	3.80	3.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
464	3.70	3.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
465	3.60	3.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
466	3.50	3.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
467	3.40	3.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
468	3.30	3.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
469	3.20	3.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
470	3.10	3.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
471	3.00	2.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
472	2.90	2.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
473	2.80	2.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
474	2.70	2.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
475	2.60	2.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
476	2.50	2.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
477	2.40	2.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
478	2.30	2.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
479	2.20	2.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
480	2.10	2.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
481	2.00	1.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
482	1.90	1.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
483	1.80	1.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
484	1.70	1.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
485	1.60	1.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
486	1.50	1.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
487	1.40	1.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
488	1.30	1.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
489	1.20	1.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
490	1.10	1.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
491	1.00	0.90	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
492	0.90	0.80	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
493	0.80	0.70	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
494	0.70	0.60	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
495	0.60	0.50	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
496	0.50	0.40	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
497	0.40	0.30	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
498	0.30	0.20	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
499	0.20	0.10	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242
500	0.10	0.00	1.3265	0.242	0.44	12.5	549.	1253.0	5.5	0.	0.000	0.000	0.242

LA-QUAL Calib for Bayou Pierre (100601)
Calibration for FTN Run 42

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	0.021	12.3	25.0	0.0	2.3	0.2	0.1	0.0	0.0	0.0
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	1.306	652.0	1091.0	0.0	179.4	10.8	10.3	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-1.327	-554.7	-627.9	0.0	-242.2	-17.3	-14.2	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	9.0	0.0	68.5					0.0
NATURAL REAERATION		5656.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-5252.7								
BOD#1 DECAY		-497.1	-497.1							
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			-8.0	8.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-16.6				-3.8	3.8			
BACKGROUND NH3 SOURCE						2.1				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		0.0				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	1.327	6321.1	1125.1	0.0	250.2	21.1	14.2	0.0	0.0	0.0
TOTAL OUTPUTS	-1.327	-6321.1	-1125.1	0.0	-250.2	-21.1	-14.2	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX I

Model Input Data File for Projection

```
CNTROL01     LA-QUAL Projection for Bayou Pierre (100601)
CNTROL02     Projection for FTN
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  MAXIMUM ITERATION LIMIT            =   200
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
REACH ID    1  BP Bayou Pierre Shreveport               50.0      43.1    0.1000
REACH ID    2  BP Bayou Pierre u/s Wallace              43.1      25.7    0.1000
REACH ID    3  BP Bayou Pierre u/s Pascagoula           25.7      16.1    0.1000
REACH ID    4  BP Bayou Pierre u/s Prairie              16.1       8.0    0.1000
REACH ID    5  BP Bayou Pierre d/s Prairie               8.0       0.0    0.1000
ENDATA08
HYDR-1      1     6.33  0.000   0.00  0.249  0.000  0.000  0.0000
HYDR-1      2     6.48  0.000   0.00  0.285  0.000  0.000  0.0000
HYDR-1      3     6.53  0.000   0.00  0.295  0.000  0.000  0.0000
HYDR-1      4     6.61  0.000   0.00  0.307  0.000  0.000  0.0000
HYDR-1      5     6.74  0.000   0.00  0.320  0.000  0.000  0.0000
ENDATA09
ENDATA10
INITIAL     1      28.2            5.30    0.00                    0.00    0.00
INITIAL     2      28.2            5.30    0.00                    0.00    0.00
INITIAL     3      28.2            5.30    0.00                    0.00    0.00
INITIAL     4      28.2            5.30    0.00                    0.00    0.00
INITIAL     5      28.2            5.30    0.00                    0.00    0.00
ENDATA11
COEFF-1     1     15  0.00 0.00   0.00  0.500   0.04
COEFF-1     2     15  0.00 0.00   0.00  0.975   0.39
COEFF-1     3     15  0.00 0.00   0.00  0.975   0.22
COEFF-1     4     15  0.00 0.00   0.00  1.105   0.22
COEFF-1     5     15  0.00 0.00   0.00  1.209   0.22
ENDATA12
COEFF-2     1     0.02                 0.09  0.000
COEFF-2     2     0.02                 0.09  0.001
COEFF-2     3     0.02                 0.09  0.000
COEFF-2     4     0.02                 0.09  0.000
COEFF-2     5     0.02                 0.09  0.000
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
```

```
NONPOINT    1        1.2      0.1
NONPOINT    2        0.0      4.2
NONPOINT    3        0.0      1.6
NONPOINT    4        0.0      1.6
NONPOINT    5        0.0      1.6
ENDATA19
HDWTR-1     1  Bayou Pierre              0.01745    28.2             0.0     0.0
ENDATA20
HDWTR-2     1        7.0    13.79     1.27     0.13     0.03
ENDATA21
ENDATA22
ENDATA23
WSTLD-1    68  NPS Sandy Beach Bayo  0.03066     28.2             0.0     0.0
WSTLD-1    68  Shreveport Twnhse     0.00000     28.2             0.0     0.0
WSTLD-1   242  NPS Wallace Bayou     0.01131     28.2             0.0     0.0
WSTLD-1   339  NPS Pascagoula Canal  0.01748     28.2             0.0     0.0
WSTLD-1   419  NPS Prairie River     0.02622     28.2             0.0     0.0
ENDATA24
WSTLD-2    68        7.0    13.79  0.0     1.27     0.13  0.0     0.03
WSTLD-2    68        5.0    69.00  0.0     5.00    10.00  0.0     0.03
WSTLD-2   242        7.0     8.66  0.0     1.65     0.05  0.0     0.06
WSTLD-2   339        7.0     7.33  0.0     1.63     0.11  0.0     0.17
WSTLD-2   419        7.0     7.33  0.0     1.63     0.11  0.0     0.17
ENDATA25
ENDATA26
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30
OVERLAY 1 Pierre2.OVL                    :Bayou Pierre Projection
ENDATA31
```

APPENDIX J

90th Percentile Temperature Calculations

Table J.1. Calculations for 90th percentile temperatures for Bayou Pierre near Shreveport, Louisiana (LDEQ 278)

Winter 90th percentile = 21.1
Summer 90th percentile = 28.2

Date	Temp (C)	Season	Percentile
5/9/95	19.91	summer	2.50%
5/13/97	20.03	summer	7.50%
5/10/94	20.64	summer	12.50%
5/11/92	20.90	summer	17.50%
5/10/93	21.08	summer	22.50%
7/12/94	22.55	summer	27.50%
5/14/96	23.05	summer	32.50%
5/12/98	23.52	summer	37.50%
5/14/90	23.90	summer	42.50%
9/12/95	24.33	summer	47.50%
5/14/91	26.15	summer	52.50%
9/10/96	26.44	summer	57.50%
6/11/90	26.70	summer	62.50%
9/10/90	26.70	summer	67.50%
9/9/97	26.89	summer	72.50%
9/9/91	27.33	summer	77.50%
7/9/90	27.40	summer	82.50%
7/15/91	27.65	summer	87.50%
7/11/95	28.69	summer	92.50%
7/15/97	29.14	summer	97.50%

Date	Water Temp (C)	Season	Percentile
1/8/96	3.19	winter	1.92%
1/11/93	6.50	winter	5.77%
3/10/98	8.31	winter	9.62%
1/15/91	9.50	winter	13.46%
11/18/97	9.81	winter	17.31%
1/6/97	10.43	winter	21.15%
1/11/94	10.74	winter	25.00%
11/14/95	11.82	winter	28.85%
1/7/92	12.45	winter	32.69%
11/16/92	12.46	winter	36.54%
3/12/96	13.40	winter	40.38%
1/9/90	13.80	winter	44.23%
1/13/98	14.21	winter	48.08%
1/10/95	14.75	winter	51.92%
11/18/96	15.78	winter	55.77%
3/10/92	16.02	winter	59.62%
3/15/94	16.67	winter	63.46%
11/15/93	16.91	winter	67.31%
3/13/95	17.01	winter	71.15%
11/13/90	17.30	winter	75.00%
3/11/97	17.97	winter	78.85%
11/15/94	19.27	winter	82.69%
3/11/91	20.68	winter	86.54%
11/19/91	21.10	winter	90.38%
3/8/93	21.30	winter	94.23%
3/12/90	24.50	winter	98.08%

FILE: R:\PROJECTS\2110-616\TECH\90TH PERC TEMPS\STN 278-90TH PERC TEMP, BAYOU PIERRE.XLS

APPENDIX K

Published 7Q10 Information and 7Q10 Calculations

Projection, 7Q10 Flows

						cfs/sqmi
7Q10 for 7351600 Byu Pierre nr Grand Bayou (partial record)	36	cfs	Drainage area =	661	sqmi	0.054463
7Q10 for 7351750 Byu Pierre nr Lake End (long record)	21	cfs	Drainage area =	860	sqmi	0.024419
7Q10 for 7351750 Byu Pierre nr Lake End (summer)	27	cfs				0.031395
Average						0.036759

Site	Description	subseg area m2	subseg area sqmi	Flow, cfs	Cummulative		flow, cms
278	concrete channel	48254776	18.63127	0.62	0.62		0.017451
	Sandy Beach Bayou			1.08	1.70		0.03066
1183	Bayou Pierre @ Ellerb	119728899	46.22759		1.70	1.699278	0
100601-A	Wallace Bayou		10.87	0.40			0.011313
	Bayou Pierre @ Wallace				2.10		0
	Pascagoula Canal			0.62	2.72		0.01748
	Prairie R			0.93	3.64		0.026221
100601-B	Bayou Pierre d/s end	256636019	99.08772	0	3.64	3.642362	0

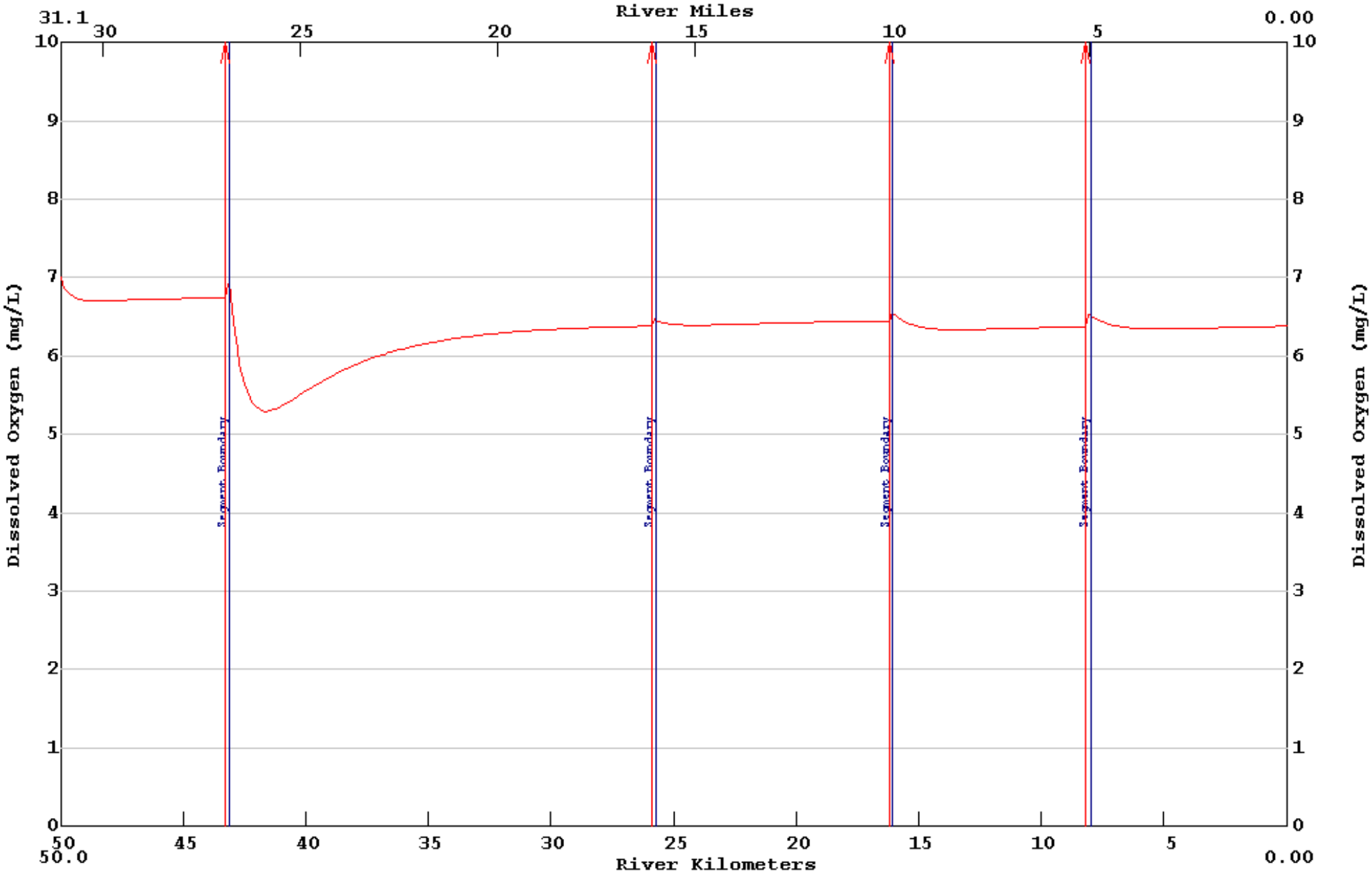
35.31984 cfs/cms

FILE: R:\PROJECTS\2110-616\TECH\LA-QUAL\PIERRE\BAYOU PIERRE FLOW AND GEOMETRY.XLS

APPENDIX L

Plots of Predicted DO for Projection

LA-QUAL Version 8.11 Run at 08:54 on 09/20/2007 File D:\comp_models\LA-QUAL_8p11\pierrepj.txt
Projection for FTN
ayou Pierre Projection



APPENDIX M

Printout of Model Output for Projection

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

Input file is D:\comp_models\LA-QUAL_8p11\pierrepj.txt
Output produced at 08:54 on 09/20/2007

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL Projection for Bayou Pierre (100601)
TITLE02         Projection for FTN
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         MAXIMUM ITERATION LIMIT            =       200.00000
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

```
CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                        BEGIN        END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                              REACH       REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                           km          km       km       km               NUM    NUM

REACH ID      1   BP  Bayou Pierre Shreveport           50.00  TO   43.10   0.1000     6.90      69        1     69
REACH ID      2   BP  Bayou Pierre u/s Wallace          43.10  TO   25.70   0.1000    17.40     174       70    243
REACH ID      3   BP  Bayou Pierre u/s Pascagoula       25.70  TO   16.10   0.1000     9.60      96      244    339
REACH ID      4   BP  Bayou Pierre u/s Prairie          16.10  TO    8.00   0.1000     8.10      81      340    420
REACH ID      5   BP  Bayou Pierre d/s Prairie           8.00  TO    0.00   0.1000     8.00      80      421    500
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   BP       6.330       0.000       0.000       0.249       0.000       0.000     0.00000   0.000
HYDR-1        2   BP       6.480       0.000       0.000       0.285       0.000       0.000     0.00000   0.000
HYDR-1        3   BP       6.530       0.000       0.000       0.295       0.000       0.000     0.00000   0.000
HYDR-1        4   BP       6.610       0.000       0.000       0.307       0.000       0.000     0.00000   0.000
HYDR-1        5   BP       6.740       0.000       0.000       0.320       0.000       0.000     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   BP       28.20      0.00      5.30      0.00      0.00      0.00      0.00      0.00
```

```
INITIAL           2   BP       28.20      0.00      5.30      0.00      0.00      0.00      0.00      0.00
INITIAL           3   BP       28.20      0.00      5.30      0.00      0.00      0.00      0.00      0.00
INITIAL           4   BP       28.20      0.00      5.30      0.00      0.00      0.00      0.00      0.00
INITIAL           5   BP       28.20      0.00      5.30      0.00      0.00      0.00      0.00      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   BP  15 LOUISIANA        0.000     0.000     0.000     0.500     0.040     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    2   BP  15 LOUISIANA        0.000     0.000     0.000     0.975     0.390     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    3   BP  15 LOUISIANA        0.000     0.000     0.000     0.975     0.220     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    4   BP  15 LOUISIANA        0.000     0.000     0.000     1.105     0.220     0.000     0.000     0.000     0.000     0.000     0.000
0.000
COEFF-1    5   BP  15 LOUISIANA        0.000     0.000     0.000     1.209     0.220     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   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          2   BP       0.020     0.000     0.000       0.090     0.001     0.000     0.000
COEFF-2          3   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          4   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
COEFF-2          5   BP       0.020     0.000     0.000       0.090     0.000     0.000     0.000
ENDATA13

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

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

ENDATA14

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

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

```
ENDATA15

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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT          1   BP        1.20      0.10      0.00      0.00      0.00      0.00
NONPOINT          2   BP        0.00      4.20      0.00      0.00      0.00      0.00
NONPOINT          3   BP        0.00      1.60      0.00      0.00      0.00      0.00
NONPOINT          4   BP        0.00      1.60      0.00      0.00      0.00      0.00
NONPOINT          5   BP        0.00      1.60      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     Bayou Pierre            0   0.01745    0.616   28.20     0.00     0.000     0.000   0.00
ENDATA20

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

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

HDWTR-2           1     Bayou Pierre              7.00     13.79      1.27      0.13      0.03      0.00
ENDATA21

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

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

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m^3/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I	CM-II
WSTLD-1	68	43.30	NPS Sandy Beach Bayo	0.03066	1.08263	0.700	28.20	0.00	0.000	0.000
WSTLD-1	68	43.30	Shreveport Twnhse	0.00000	0.00000	0.000	28.20	0.00	0.000	0.000
WSTLD-1	242	25.90	NPS Wallace Bayou	0.01131	0.39936	0.258	28.20	0.00	0.000	0.000
WSTLD-1	339	16.20	NPS Pascagoula Canal	0.01748	0.61723	0.399	28.20	0.00	0.000	0.000
WSTLD-1	419	8.20	NPS Prairie River	0.02622	0.92585	0.598	28.20	0.00	0.000	0.000

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	68	NPS Sandy Beach Bayo	7.00	13.79	0.00	1.27	0.13	0.00	0.03	0.00
WSTLD-2	68	Shreveport Twnhse	5.00	69.00	0.00	5.00	10.00	0.00	0.03	0.00
WSTLD-2	242	NPS Wallace Bayou	7.00	8.66	0.00	1.65	0.05	0.00	0.06	0.00
WSTLD-2	339	NPS Pascagoula Canal	7.00	7.33	0.00	1.63	0.11	0.00	0.17	0.00
WSTLD-2	419	NPS Prairie River	7.00	7.33	0.00	1.63	0.11	0.00	0.17	0.00

ENDATA25

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

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

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 =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

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


OVERLAY 1 Pierre2.OVL                    :Bayou Pierre Projection
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


 SPECIAL REPORT: Bayou Pierre
 WATER QUALITY CONSTITUENT VALUES
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ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO **	COLI #/100mL	NCM *
1	49.900	28.20	0.0	0.0	0.0	6.91	13.72	0.00	13.72	0.00	1.27	0.13	0.03	1.43	0.00	0.0	0.0	0.	0.00
2	49.800	28.20	0.0	0.0	0.0	6.85	13.65	0.00	13.65	0.00	1.27	0.13	0.03	1.43	0.00	0.0	0.0	0.	0.00
3	49.700	28.20	0.0	0.0	0.0	6.81	13.58	0.00	13.58	0.00	1.26	0.13	0.04	1.43	0.00	0.0	0.0	0.	0.00
4	49.600	28.20	0.0	0.0	0.0	6.77	13.50	0.00	13.50	0.00	1.26	0.13	0.04	1.43	0.00	0.0	0.0	0.	0.00
5	49.500	28.20	0.0	0.0	0.0	6.75	13.43	0.00	13.43	0.00	1.26	0.13	0.04	1.43	0.00	0.0	0.0	0.	0.00
6	49.400	28.20	0.0	0.0	0.0	6.74	13.36	0.00	13.36	0.00	1.26	0.13	0.04	1.44	0.00	0.0	0.0	0.	0.00
7	49.300	28.20	0.0	0.0	0.0	6.73	13.29	0.00	13.29	0.00	1.26	0.14	0.05	1.44	0.00	0.0	0.0	0.	0.00
8	49.200	28.20	0.0	0.0	0.0	6.72	13.23	0.00	13.23	0.00	1.25	0.14	0.05	1.44	0.00	0.0	0.0	0.	0.00
9	49.100	28.20	0.0	0.0	0.0	6.71	13.16	0.00	13.16	0.00	1.25	0.14	0.05	1.44	0.00	0.0	0.0	0.	0.00
10	49.000	28.20	0.0	0.0	0.0	6.71	13.09	0.00	13.09	0.00	1.25	0.14	0.05	1.44	0.00	0.0	0.0	0.	0.00
11	48.900	28.20	0.0	0.0	0.0	6.71	13.02	0.00	13.02	0.00	1.25	0.14	0.06	1.44	0.00	0.0	0.0	0.	0.00
12	48.800	28.20	0.0	0.0	0.0	6.71	12.95	0.00	12.95	0.00	1.24	0.14	0.06	1.44	0.00	0.0	0.0	0.	0.00
13	48.700	28.20	0.0	0.0	0.0	6.71	12.89	0.00	12.89	0.00	1.24	0.14	0.06	1.44	0.00	0.0	0.0	0.	0.00
14	48.600	28.20	0.0	0.0	0.0	6.71	12.82	0.00	12.82	0.00	1.24	0.14	0.06	1.44	0.00	0.0	0.0	0.	0.00
15	48.500	28.20	0.0	0.0	0.0	6.71	12.75	0.00	12.75	0.00	1.24	0.14	0.07	1.44	0.00	0.0	0.0	0.	0.00
16	48.400	28.20	0.0	0.0	0.0	6.71	12.69	0.00	12.69	0.00	1.24	0.14	0.07	1.45	0.00	0.0	0.0	0.	0.00

17	48.300	28.20	0.0	0.0	0.0	6.71	12.62	0.00	12.62	0.00	1.23	0.14	0.07	1.45	0.00	0.0	0.0	0.	0.00
18	48.200	28.20	0.0	0.0	0.0	6.71	12.56	0.00	12.56	0.00	1.23	0.14	0.07	1.45	0.00	0.0	0.0	0.	0.00
19	48.100	28.20	0.0	0.0	0.0	6.71	12.49	0.00	12.49	0.00	1.23	0.14	0.07	1.45	0.00	0.0	0.0	0.	0.00
20	48.000	28.20	0.0	0.0	0.0	6.71	12.43	0.00	12.43	0.00	1.23	0.14	0.08	1.45	0.00	0.0	0.0	0.	0.00
21	47.900	28.20	0.0	0.0	0.0	6.71	12.36	0.00	12.36	0.00	1.23	0.14	0.08	1.45	0.00	0.0	0.0	0.	0.00
22	47.800	28.20	0.0	0.0	0.0	6.71	12.30	0.00	12.30	0.00	1.22	0.14	0.08	1.45	0.00	0.0	0.0	0.	0.00
23	47.700	28.20	0.0	0.0	0.0	6.71	12.24	0.00	12.24	0.00	1.22	0.15	0.08	1.45	0.00	0.0	0.0	0.	0.00
24	47.600	28.20	0.0	0.0	0.0	6.71	12.18	0.00	12.18	0.00	1.22	0.15	0.09	1.45	0.00	0.0	0.0	0.	0.00
25	47.500	28.20	0.0	0.0	0.0	6.71	12.11	0.00	12.11	0.00	1.22	0.15	0.09	1.45	0.00	0.0	0.0	0.	0.00
26	47.400	28.20	0.0	0.0	0.0	6.71	12.05	0.00	12.05	0.00	1.22	0.15	0.09	1.45	0.00	0.0	0.0	0.	0.00
27	47.300	28.20	0.0	0.0	0.0	6.71	11.99	0.00	11.99	0.00	1.21	0.15	0.10	1.46	0.00	0.0	0.0	0.	0.00
28	47.200	28.20	0.0	0.0	0.0	6.72	11.93	0.00	11.93	0.00	1.21	0.15	0.10	1.46	0.00	0.0	0.0	0.	0.00
29	47.100	28.20	0.0	0.0	0.0	6.72	11.87	0.00	11.87	0.00	1.21	0.15	0.10	1.46	0.00	0.0	0.0	0.	0.00
30	47.000	28.20	0.0	0.0	0.0	6.72	11.81	0.00	11.81	0.00	1.21	0.15	0.10	1.46	0.00	0.0	0.0	0.	0.00
31	46.900	28.20	0.0	0.0	0.0	6.72	11.75	0.00	11.75	0.00	1.21	0.15	0.11	1.46	0.00	0.0	0.0	0.	0.00
32	46.800	28.20	0.0	0.0	0.0	6.72	11.69	0.00	11.69	0.00	1.20	0.15	0.11	1.46	0.00	0.0	0.0	0.	0.00
33	46.700	28.20	0.0	0.0	0.0	6.72	11.63	0.00	11.63	0.00	1.20	0.15	0.11	1.46	0.00	0.0	0.0	0.	0.00
34	46.600	28.20	0.0	0.0	0.0	6.72	11.57	0.00	11.57	0.00	1.20	0.15	0.11	1.46	0.00	0.0	0.0	0.	0.00
35	46.500	28.20	0.0	0.0	0.0	6.72	11.51	0.00	11.51	0.00	1.20	0.15	0.12	1.46	0.00	0.0	0.0	0.	0.00
36	46.400	28.20	0.0	0.0	0.0	6.72	11.45	0.00	11.45	0.00	1.20	0.15	0.12	1.46	0.00	0.0	0.0	0.	0.00
37	46.300	28.20	0.0	0.0	0.0	6.72	11.39	0.00	11.39	0.00	1.19	0.15	0.12	1.47	0.00	0.0	0.0	0.	0.00
38	46.200	28.20	0.0	0.0	0.0	6.72	11.34	0.00	11.34	0.00	1.19	0.15	0.12	1.47	0.00	0.0	0.0	0.	0.00
39	46.100	28.20	0.0	0.0	0.0	6.72	11.28	0.00	11.28	0.00	1.19	0.15	0.13	1.47	0.00	0.0	0.0	0.	0.00
40	46.000	28.20	0.0	0.0	0.0	6.73	11.22	0.00	11.22	0.00	1.19	0.15	0.13	1.47	0.00	0.0	0.0	0.	0.00
41	45.900	28.20	0.0	0.0	0.0	6.73	11.17	0.00	11.17	0.00	1.19	0.15	0.13	1.47	0.00	0.0	0.0	0.	0.00
42	45.800	28.20	0.0	0.0	0.0	6.73	11.11	0.00	11.11	0.00	1.18	0.15	0.13	1.47	0.00	0.0	0.0	0.	0.00
43	45.700	28.20	0.0	0.0	0.0	6.73	11.05	0.00	11.05	0.00	1.18	0.15	0.14	1.47	0.00	0.0	0.0	0.	0.00
44	45.600	28.20	0.0	0.0	0.0	6.73	11.00	0.00	11.00	0.00	1.18	0.15	0.14	1.47	0.00	0.0	0.0	0.	0.00
45	45.500	28.20	0.0	0.0	0.0	6.73	10.94	0.00	10.94	0.00	1.18	0.15	0.14	1.47	0.00	0.0	0.0	0.	0.00
46	45.400	28.20	0.0	0.0	0.0	6.73	10.89	0.00	10.89	0.00	1.18	0.15	0.14	1.47	0.00	0.0	0.0	0.	0.00
47	45.300	28.20	0.0	0.0	0.0	6.73	10.83	0.00	10.83	0.00	1.17	0.15	0.15	1.48	0.00	0.0	0.0	0.	0.00
48	45.200	28.20	0.0	0.0	0.0	6.73	10.78	0.00	10.78	0.00	1.17	0.15	0.15	1.48	0.00	0.0	0.0	0.	0.00
49	45.100	28.20	0.0	0.0	0.0	6.73	10.73	0.00	10.73	0.00	1.17	0.15	0.15	1.48	0.00	0.0	0.0	0.	0.00
50	45.000	28.20	0.0	0.0	0.0	6.73	10.67	0.00	10.67	0.00	1.17	0.15	0.15	1.48	0.00	0.0	0.0	0.	0.00
51	44.900	28.20	0.0	0.0	0.0	6.73	10.62	0.00	10.62	0.00	1.17	0.15	0.16	1.48	0.00	0.0	0.0	0.	0.00
52	44.800	28.20	0.0	0.0	0.0	6.73	10.57	0.00	10.57	0.00	1.16	0.16	0.16	1.48	0.00	0.0	0.0	0.	0.00
53	44.700	28.20	0.0	0.0	0.0	6.74	10.51	0.00	10.51	0.00	1.16	0.16	0.16	1.48	0.00	0.0	0.0	0.	0.00
54	44.600	28.20	0.0	0.0	0.0	6.74	10.46	0.00	10.46	0.00	1.16	0.16	0.17	1.48	0.00	0.0	0.0	0.	0.00
55	44.500	28.20	0.0	0.0	0.0	6.74	10.41	0.00	10.41	0.00	1.16	0.16	0.17	1.48	0.00	0.0	0.0	0.	0.00
56	44.400	28.20	0.0	0.0	0.0	6.74	10.36	0.00	10.36	0.00	1.16	0.16	0.17	1.48	0.00	0.0	0.0	0.	0.00
57	44.300	28.20	0.0	0.0	0.0	6.74	10.31	0.00	10.31	0.00	1.16	0.16	0.17	1.48	0.00	0.0	0.0	0.	0.00
58	44.200	28.20	0.0	0.0	0.0	6.74	10.26	0.00	10.26	0.00	1.15	0.16	0.18	1.49	0.00	0.0	0.0	0.	0.00
59	44.100	28.20	0.0	0.0	0.0	6.74	10.21	0.00	10.21	0.00	1.15	0.16	0.18	1.49	0.00	0.0	0.0	0.	0.00
60	44.000	28.20	0.0	0.0	0.0	6.74	10.16	0.00	10.16	0.00	1.15	0.16	0.18	1.49	0.00	0.0	0.0	0.	0.00
61	43.900	28.20	0.0	0.0	0.0	6.74	10.11	0.00	10.11	0.00	1.15	0.16	0.18	1.49	0.00	0.0	0.0	0.	0.00
62	43.800	28.20	0.0	0.0	0.0	6.74	10.06	0.00	10.06	0.00	1.15	0.16	0.19	1.49	0.00	0.0	0.0	0.	0.00
63	43.700	28.20	0.0	0.0	0.0	6.74	10.01	0.00	10.01	0.00	1.14	0.16	0.19	1.49	0.00	0.0	0.0	0.	0.00
64	43.600	28.20	0.0	0.0	0.0	6.74	9.96	0.00	9.96	0.00	1.14	0.16	0.19	1.49	0.00	0.0	0.0	0.	0.00
65	43.500	28.20	0.0	0.0	0.0	6.74	9.91	0.00	9.91	0.00	1.14	0.16	0.20	1.49	0.00	0.0	0.0	0.	0.00
66	43.400	28.20	0.0	0.0	0.0	6.75	9.86	0.00	9.86	0.00	1.14	0.16	0.20	1.49	0.00	0.0	0.0	0.	0.00
67	43.300	28.20	0.0	0.0	0.0	6.75	9.81	0.00	9.81	0.00	1.14	0.16	0.20	1.49	0.00	0.0	0.0	0.	0.00
68	43.200	28.20	0.0	0.0	0.0	6.92	12.32	0.00	12.32	0.00	1.22	0.14	0.09	1.45	0.00	0.0	0.0	0.	0.00

69	43.100	28.20	0.0	0.0	0.0	6.93	12.30	0.00	12.30	0.00	1.22	0.14	0.09	1.45	0.00	0.0	0.0	0.	0.00
70	43.000	28.20	0.0	0.0	0.0	6.60	12.00	0.00	12.00	0.00	1.22	0.14	0.09	1.46	0.00	0.0	0.0	0.	0.00
71	42.900	28.20	0.0	0.0	0.0	6.32	11.70	0.00	11.70	0.00	1.23	0.14	0.10	1.47	0.00	0.0	0.0	0.	0.00
72	42.800	28.20	0.0	0.0	0.0	6.09	11.41	0.00	11.41	0.00	1.23	0.14	0.10	1.47	0.00	0.0	0.0	0.	0.00
73	42.700	28.20	0.0	0.0	0.0	5.91	11.13	0.00	11.13	0.00	1.24	0.14	0.10	1.48	0.00	0.0	0.0	0.	0.00
74	42.600	28.20	0.0	0.0	0.0	5.76	10.86	0.00	10.86	0.00	1.24	0.14	0.10	1.48	0.00	0.0	0.0	0.	0.00
75	42.500	28.20	0.0	0.0	0.0	5.64	10.59	0.00	10.59	0.00	1.25	0.14	0.10	1.49	0.00	0.0	0.0	0.	0.00
76	42.400	28.20	0.0	0.0	0.0	5.54	10.33	0.00	10.33	0.00	1.25	0.14	0.10	1.50	0.00	0.0	0.0	0.	0.00
77	42.300	28.20	0.0	0.0	0.0	5.47	10.08	0.00	10.08	0.00	1.26	0.14	0.10	1.50	0.00	0.0	0.0	0.	0.00
78	42.200	28.20	0.0	0.0	0.0	5.41	9.83	0.00	9.83	0.00	1.26	0.15	0.10	1.51	0.00	0.0	0.0	0.	0.00
79	42.100	28.20	0.0	0.0	0.0	5.37	9.59	0.00	9.59	0.00	1.27	0.15	0.10	1.51	0.00	0.0	0.0	0.	0.00
80	42.000	28.20	0.0	0.0	0.0	5.34	9.35	0.00	9.35	0.00	1.27	0.15	0.11	1.52	0.00	0.0	0.0	0.	0.00
81	41.900	28.20	0.0	0.0	0.0	5.32	9.12	0.00	9.12	0.00	1.27	0.15	0.11	1.53	0.00	0.0	0.0	0.	0.00
82	41.800	28.20	0.0	0.0	0.0	5.30	8.89	0.00	8.89	0.00	1.28	0.15	0.11	1.53	0.00	0.0	0.0	0.	0.00
83	41.700	28.20	0.0	0.0	0.0	5.30	8.68	0.00	8.68	0.00	1.28	0.15	0.11	1.54	0.00	0.0	0.0	0.	0.00
84	41.600	28.20	0.0	0.0	0.0	5.29	8.46	0.00	8.46	0.00	1.29	0.15	0.11	1.55	0.00	0.0	0.0	0.	0.00
85	41.500	28.20	0.0	0.0	0.0	5.30	8.25	0.00	8.25	0.00	1.29	0.15	0.11	1.55	0.00	0.0	0.0	0.	0.00
86	41.400	28.20	0.0	0.0	0.0	5.30	8.05	0.00	8.05	0.00	1.30	0.15	0.11	1.56	0.00	0.0	0.0	0.	0.00
87	41.300	28.20	0.0	0.0	0.0	5.31	7.85	0.00	7.85	0.00	1.30	0.15	0.11	1.56	0.00	0.0	0.0	0.	0.00
88	41.200	28.20	0.0	0.0	0.0	5.33	7.66	0.00	7.66	0.00	1.31	0.15	0.11	1.57	0.00	0.0	0.0	0.	0.00
89	41.100	28.20	0.0	0.0	0.0	5.34	7.47	0.00	7.47	0.00	1.31	0.15	0.11	1.58	0.00	0.0	0.0	0.	0.00
90	41.000	28.20	0.0	0.0	0.0	5.36	7.29	0.00	7.29	0.00	1.31	0.15	0.12	1.58	0.00	0.0	0.0	0.	0.00
91	40.900	28.20	0.0	0.0	0.0	5.38	7.11	0.00	7.11	0.00	1.32	0.15	0.12	1.59	0.00	0.0	0.0	0.	0.00
92	40.800	28.20	0.0	0.0	0.0	5.39	6.93	0.00	6.93	0.00	1.32	0.15	0.12	1.59	0.00	0.0	0.0	0.	0.00
93	40.700	28.20	0.0	0.0	0.0	5.41	6.76	0.00	6.76	0.00	1.33	0.15	0.12	1.60	0.00	0.0	0.0	0.	0.00
94	40.600	28.20	0.0	0.0	0.0	5.43	6.59	0.00	6.59	0.00	1.33	0.15	0.12	1.61	0.00	0.0	0.0	0.	0.00
95	40.500	28.20	0.0	0.0	0.0	5.45	6.43	0.00	6.43	0.00	1.34	0.15	0.12	1.61	0.00	0.0	0.0	0.	0.00
96	40.400	28.20	0.0	0.0	0.0	5.47	6.27	0.00	6.27	0.00	1.34	0.16	0.12	1.62	0.00	0.0	0.0	0.	0.00
97	40.300	28.20	0.0	0.0	0.0	5.49	6.12	0.00	6.12	0.00	1.35	0.16	0.12	1.62	0.00	0.0	0.0	0.	0.00
98	40.200	28.20	0.0	0.0	0.0	5.51	5.97	0.00	5.97	0.00	1.35	0.16	0.12	1.63	0.00	0.0	0.0	0.	0.00
99	40.100	28.20	0.0	0.0	0.0	5.53	5.82	0.00	5.82	0.00	1.35	0.16	0.13	1.64	0.00	0.0	0.0	0.	0.00
100	40.000	28.20	0.0	0.0	0.0	5.55	5.68	0.00	5.68	0.00	1.36	0.16	0.13	1.64	0.00	0.0	0.0	0.	0.00
101	39.900	28.20	0.0	0.0	0.0	5.57	5.54	0.00	5.54	0.00	1.36	0.16	0.13	1.65	0.00	0.0	0.0	0.	0.00
102	39.800	28.20	0.0	0.0	0.0	5.59	5.40	0.00	5.40	0.00	1.37	0.16	0.13	1.65	0.00	0.0	0.0	0.	0.00
103	39.700	28.20	0.0	0.0	0.0	5.61	5.27	0.00	5.27	0.00	1.37	0.16	0.13	1.66	0.00	0.0	0.0	0.	0.00
104	39.600	28.20	0.0	0.0	0.0	5.63	5.14	0.00	5.14	0.00	1.38	0.16	0.13	1.67	0.00	0.0	0.0	0.	0.00
105	39.500	28.20	0.0	0.0	0.0	5.65	5.01	0.00	5.01	0.00	1.38	0.16	0.13	1.67	0.00	0.0	0.0	0.	0.00
106	39.400	28.20	0.0	0.0	0.0	5.67	4.89	0.00	4.89	0.00	1.38	0.16	0.13	1.68	0.00	0.0	0.0	0.	0.00
107	39.300	28.20	0.0	0.0	0.0	5.69	4.77	0.00	4.77	0.00	1.39	0.16	0.13	1.69	0.00	0.0	0.0	0.	0.00
108	39.200	28.20	0.0	0.0	0.0	5.70	4.65	0.00	4.65	0.00	1.39	0.16	0.14	1.69	0.00	0.0	0.0	0.	0.00
109	39.100	28.20	0.0	0.0	0.0	5.72	4.54	0.00	4.54	0.00	1.40	0.16	0.14	1.70	0.00	0.0	0.0	0.	0.00
110	39.000	28.20	0.0	0.0	0.0	5.74	4.42	0.00	4.42	0.00	1.40	0.16	0.14	1.70	0.00	0.0	0.0	0.	0.00
111	38.900	28.20	0.0	0.0	0.0	5.75	4.32	0.00	4.32	0.00	1.41	0.16	0.14	1.71	0.00	0.0	0.0	0.	0.00
112	38.800	28.20	0.0	0.0	0.0	5.77	4.21	0.00	4.21	0.00	1.41	0.16	0.14	1.72	0.00	0.0	0.0	0.	0.00
113	38.700	28.20	0.0	0.0	0.0	5.79	4.11	0.00	4.11	0.00	1.41	0.17	0.14	1.72	0.00	0.0	0.0	0.	0.00
114	38.600	28.20	0.0	0.0	0.0	5.80	4.00	0.00	4.00	0.00	1.42	0.17	0.14	1.73	0.00	0.0	0.0	0.	0.00
115	38.500	28.20	0.0	0.0	0.0	5.82	3.91	0.00	3.91	0.00	1.42	0.17	0.14	1.73	0.00	0.0	0.0	0.	0.00
116	38.400	28.20	0.0	0.0	0.0	5.83	3.81	0.00	3.81	0.00	1.43	0.17	0.15	1.74	0.00	0.0	0.0	0.	0.00
117	38.300	28.20	0.0	0.0	0.0	5.84	3.72	0.00	3.72	0.00	1.43	0.17	0.15	1.75	0.00	0.0	0.0	0.	0.00
118	38.200	28.20	0.0	0.0	0.0	5.86	3.62	0.00	3.62	0.00	1.44	0.17	0.15	1.75	0.00	0.0	0.0	0.	0.00
119	38.100	28.20	0.0	0.0	0.0	5.87	3.54	0.00	3.54	0.00	1.44	0.17	0.15	1.76	0.00	0.0	0.0	0.	0.00
120	38.000	28.20	0.0	0.0	0.0	5.89	3.45	0.00	3.45	0.00	1.45	0.17	0.15	1.76	0.00	0.0	0.0	0.	0.00

121	37.900	28.20	0.0	0.0	0.0	5.90	3.36	0.00	3.36	0.00	1.45	0.17	0.15	1.77	0.00	0.0	0.0	0.	0.00
122	37.800	28.20	0.0	0.0	0.0	5.91	3.28	0.00	3.28	0.00	1.45	0.17	0.15	1.78	0.00	0.0	0.0	0.	0.00
123	37.700	28.20	0.0	0.0	0.0	5.92	3.20	0.00	3.20	0.00	1.46	0.17	0.15	1.78	0.00	0.0	0.0	0.	0.00
124	37.600	28.20	0.0	0.0	0.0	5.94	3.12	0.00	3.12	0.00	1.46	0.17	0.16	1.79	0.00	0.0	0.0	0.	0.00
125	37.500	28.20	0.0	0.0	0.0	5.95	3.04	0.00	3.04	0.00	1.47	0.17	0.16	1.79	0.00	0.0	0.0	0.	0.00
126	37.400	28.20	0.0	0.0	0.0	5.96	2.97	0.00	2.97	0.00	1.47	0.17	0.16	1.80	0.00	0.0	0.0	0.	0.00
127	37.300	28.20	0.0	0.0	0.0	5.97	2.90	0.00	2.90	0.00	1.48	0.17	0.16	1.81	0.00	0.0	0.0	0.	0.00
128	37.200	28.20	0.0	0.0	0.0	5.98	2.82	0.00	2.82	0.00	1.48	0.17	0.16	1.81	0.00	0.0	0.0	0.	0.00
129	37.100	28.20	0.0	0.0	0.0	5.99	2.75	0.00	2.75	0.00	1.48	0.17	0.16	1.82	0.00	0.0	0.0	0.	0.00
130	37.000	28.20	0.0	0.0	0.0	6.00	2.69	0.00	2.69	0.00	1.49	0.17	0.16	1.83	0.00	0.0	0.0	0.	0.00
131	36.900	28.20	0.0	0.0	0.0	6.01	2.62	0.00	2.62	0.00	1.49	0.18	0.16	1.83	0.00	0.0	0.0	0.	0.00
132	36.800	28.20	0.0	0.0	0.0	6.02	2.56	0.00	2.56	0.00	1.50	0.18	0.17	1.84	0.00	0.0	0.0	0.	0.00
133	36.700	28.20	0.0	0.0	0.0	6.03	2.49	0.00	2.49	0.00	1.50	0.18	0.17	1.84	0.00	0.0	0.0	0.	0.00
134	36.600	28.20	0.0	0.0	0.0	6.04	2.43	0.00	2.43	0.00	1.50	0.18	0.17	1.85	0.00	0.0	0.0	0.	0.00
135	36.500	28.20	0.0	0.0	0.0	6.05	2.37	0.00	2.37	0.00	1.51	0.18	0.17	1.86	0.00	0.0	0.0	0.	0.00
136	36.400	28.20	0.0	0.0	0.0	6.06	2.31	0.00	2.31	0.00	1.51	0.18	0.17	1.86	0.00	0.0	0.0	0.	0.00
137	36.300	28.20	0.0	0.0	0.0	6.07	2.26	0.00	2.26	0.00	1.52	0.18	0.17	1.87	0.00	0.0	0.0	0.	0.00
138	36.200	28.20	0.0	0.0	0.0	6.08	2.20	0.00	2.20	0.00	1.52	0.18	0.17	1.87	0.00	0.0	0.0	0.	0.00
139	36.100	28.20	0.0	0.0	0.0	6.09	2.15	0.00	2.15	0.00	1.53	0.18	0.17	1.88	0.00	0.0	0.0	0.	0.00
140	36.000	28.20	0.0	0.0	0.0	6.09	2.09	0.00	2.09	0.00	1.53	0.18	0.18	1.89	0.00	0.0	0.0	0.	0.00
141	35.900	28.20	0.0	0.0	0.0	6.10	2.04	0.00	2.04	0.00	1.53	0.18	0.18	1.89	0.00	0.0	0.0	0.	0.00
142	35.800	28.20	0.0	0.0	0.0	6.11	1.99	0.00	1.99	0.00	1.54	0.18	0.18	1.90	0.00	0.0	0.0	0.	0.00
143	35.700	28.20	0.0	0.0	0.0	6.12	1.94	0.00	1.94	0.00	1.54	0.18	0.18	1.90	0.00	0.0	0.0	0.	0.00
144	35.600	28.20	0.0	0.0	0.0	6.12	1.90	0.00	1.90	0.00	1.55	0.18	0.18	1.91	0.00	0.0	0.0	0.	0.00
145	35.500	28.20	0.0	0.0	0.0	6.13	1.85	0.00	1.85	0.00	1.55	0.18	0.18	1.92	0.00	0.0	0.0	0.	0.00
146	35.400	28.20	0.0	0.0	0.0	6.14	1.80	0.00	1.80	0.00	1.56	0.18	0.18	1.92	0.00	0.0	0.0	0.	0.00
147	35.300	28.20	0.0	0.0	0.0	6.14	1.76	0.00	1.76	0.00	1.56	0.18	0.18	1.93	0.00	0.0	0.0	0.	0.00
148	35.200	28.20	0.0	0.0	0.0	6.15	1.72	0.00	1.72	0.00	1.56	0.19	0.19	1.93	0.00	0.0	0.0	0.	0.00
149	35.100	28.20	0.0	0.0	0.0	6.16	1.67	0.00	1.67	0.00	1.57	0.19	0.19	1.94	0.00	0.0	0.0	0.	0.00
150	35.000	28.20	0.0	0.0	0.0	6.16	1.63	0.00	1.63	0.00	1.57	0.19	0.19	1.95	0.00	0.0	0.0	0.	0.00
151	34.900	28.20	0.0	0.0	0.0	6.17	1.59	0.00	1.59	0.00	1.58	0.19	0.19	1.95	0.00	0.0	0.0	0.	0.00
152	34.800	28.20	0.0	0.0	0.0	6.18	1.55	0.00	1.55	0.00	1.58	0.19	0.19	1.96	0.00	0.0	0.0	0.	0.00
153	34.700	28.20	0.0	0.0	0.0	6.18	1.51	0.00	1.51	0.00	1.58	0.19	0.19	1.97	0.00	0.0	0.0	0.	0.00
154	34.600	28.20	0.0	0.0	0.0	6.19	1.48	0.00	1.48	0.00	1.59	0.19	0.19	1.97	0.00	0.0	0.0	0.	0.00
155	34.500	28.20	0.0	0.0	0.0	6.19	1.44	0.00	1.44	0.00	1.59	0.19	0.20	1.98	0.00	0.0	0.0	0.	0.00
156	34.400	28.20	0.0	0.0	0.0	6.20	1.40	0.00	1.40	0.00	1.60	0.19	0.20	1.98	0.00	0.0	0.0	0.	0.00
157	34.300	28.20	0.0	0.0	0.0	6.20	1.37	0.00	1.37	0.00	1.60	0.19	0.20	1.99	0.00	0.0	0.0	0.	0.00
158	34.200	28.20	0.0	0.0	0.0	6.21	1.34	0.00	1.34	0.00	1.61	0.19	0.20	2.00	0.00	0.0	0.0	0.	0.00
159	34.100	28.20	0.0	0.0	0.0	6.21	1.30	0.00	1.30	0.00	1.61	0.19	0.20	2.00	0.00	0.0	0.0	0.	0.00
160	34.000	28.20	0.0	0.0	0.0	6.22	1.27	0.00	1.27	0.00	1.61	0.19	0.20	2.01	0.00	0.0	0.0	0.	0.00
161	33.900	28.20	0.0	0.0	0.0	6.22	1.24	0.00	1.24	0.00	1.62	0.19	0.20	2.01	0.00	0.0	0.0	0.	0.00
162	33.800	28.20	0.0	0.0	0.0	6.23	1.21	0.00	1.21	0.00	1.62	0.19	0.21	2.02	0.00	0.0	0.0	0.	0.00
163	33.700	28.20	0.0	0.0	0.0	6.23	1.18	0.00	1.18	0.00	1.63	0.19	0.21	2.03	0.00	0.0	0.0	0.	0.00
164	33.600	28.20	0.0	0.0	0.0	6.24	1.15	0.00	1.15	0.00	1.63	0.19	0.21	2.03	0.00	0.0	0.0	0.	0.00
165	33.500	28.20	0.0	0.0	0.0	6.24	1.12	0.00	1.12	0.00	1.63	0.19	0.21	2.04	0.00	0.0	0.0	0.	0.00
166	33.400	28.20	0.0	0.0	0.0	6.25	1.09	0.00	1.09	0.00	1.64	0.20	0.21	2.04	0.00	0.0	0.0	0.	0.00
167	33.300	28.20	0.0	0.0	0.0	6.25	1.07	0.00	1.07	0.00	1.64	0.20	0.21	2.05	0.00	0.0	0.0	0.	0.00
168	33.200	28.20	0.0	0.0	0.0	6.25	1.04	0.00	1.04	0.00	1.65	0.20	0.21	2.06	0.00	0.0	0.0	0.	0.00
169	33.100	28.20	0.0	0.0	0.0	6.26	1.02	0.00	1.02	0.00	1.65	0.20	0.22	2.06	0.00	0.0	0.0	0.	0.00
170	33.000	28.20	0.0	0.0	0.0	6.26	0.99	0.00	0.99	0.00	1.65	0.20	0.22	2.07	0.00	0.0	0.0	0.	0.00
171	32.900	28.20	0.0	0.0	0.0	6.26	0.97	0.00	0.97	0.00	1.66	0.20	0.22	2.07	0.00	0.0	0.0	0.	0.00
172	32.800	28.20	0.0	0.0	0.0	6.27	0.94	0.00	0.94	0.00	1.66	0.20	0.22	2.08	0.00	0.0	0.0	0.	0.00

173	32.700	28.20	0.0	0.0	0.0	6.27	0.92	0.00	0.92	0.00	1.67	0.20	0.22	2.09	0.00	0.0	0.0	0.	0.00
174	32.600	28.20	0.0	0.0	0.0	6.28	0.90	0.00	0.90	0.00	1.67	0.20	0.22	2.09	0.00	0.0	0.0	0.	0.00
175	32.500	28.20	0.0	0.0	0.0	6.28	0.87	0.00	0.87	0.00	1.67	0.20	0.22	2.10	0.00	0.0	0.0	0.	0.00
176	32.400	28.20	0.0	0.0	0.0	6.28	0.85	0.00	0.85	0.00	1.68	0.20	0.23	2.11	0.00	0.0	0.0	0.	0.00
177	32.300	28.20	0.0	0.0	0.0	6.28	0.83	0.00	0.83	0.00	1.68	0.20	0.23	2.11	0.00	0.0	0.0	0.	0.00
178	32.200	28.20	0.0	0.0	0.0	6.29	0.81	0.00	0.81	0.00	1.69	0.20	0.23	2.12	0.00	0.0	0.0	0.	0.00
179	32.100	28.20	0.0	0.0	0.0	6.29	0.79	0.00	0.79	0.00	1.69	0.20	0.23	2.12	0.00	0.0	0.0	0.	0.00
180	32.000	28.20	0.0	0.0	0.0	6.29	0.77	0.00	0.77	0.00	1.69	0.20	0.23	2.13	0.00	0.0	0.0	0.	0.00
181	31.900	28.20	0.0	0.0	0.0	6.30	0.75	0.00	0.75	0.00	1.70	0.20	0.23	2.14	0.00	0.0	0.0	0.	0.00
182	31.800	28.20	0.0	0.0	0.0	6.30	0.73	0.00	0.73	0.00	1.70	0.20	0.23	2.14	0.00	0.0	0.0	0.	0.00
183	31.700	28.20	0.0	0.0	0.0	6.30	0.72	0.00	0.72	0.00	1.71	0.21	0.24	2.15	0.00	0.0	0.0	0.	0.00
184	31.600	28.20	0.0	0.0	0.0	6.30	0.70	0.00	0.70	0.00	1.71	0.21	0.24	2.15	0.00	0.0	0.0	0.	0.00
185	31.500	28.20	0.0	0.0	0.0	6.31	0.68	0.00	0.68	0.00	1.71	0.21	0.24	2.16	0.00	0.0	0.0	0.	0.00
186	31.400	28.20	0.0	0.0	0.0	6.31	0.66	0.00	0.66	0.00	1.72	0.21	0.24	2.17	0.00	0.0	0.0	0.	0.00
187	31.300	28.20	0.0	0.0	0.0	6.31	0.65	0.00	0.65	0.00	1.72	0.21	0.24	2.17	0.00	0.0	0.0	0.	0.00
188	31.200	28.20	0.0	0.0	0.0	6.31	0.63	0.00	0.63	0.00	1.73	0.21	0.24	2.18	0.00	0.0	0.0	0.	0.00
189	31.100	28.20	0.0	0.0	0.0	6.32	0.62	0.00	0.62	0.00	1.73	0.21	0.24	2.18	0.00	0.0	0.0	0.	0.00
190	31.000	28.20	0.0	0.0	0.0	6.32	0.60	0.00	0.60	0.00	1.73	0.21	0.25	2.19	0.00	0.0	0.0	0.	0.00
191	30.900	28.20	0.0	0.0	0.0	6.32	0.59	0.00	0.59	0.00	1.74	0.21	0.25	2.20	0.00	0.0	0.0	0.	0.00
192	30.800	28.20	0.0	0.0	0.0	6.32	0.57	0.00	0.57	0.00	1.74	0.21	0.25	2.20	0.00	0.0	0.0	0.	0.00
193	30.700	28.20	0.0	0.0	0.0	6.33	0.56	0.00	0.56	0.00	1.75	0.21	0.25	2.21	0.00	0.0	0.0	0.	0.00
194	30.600	28.20	0.0	0.0	0.0	6.33	0.54	0.00	0.54	0.00	1.75	0.21	0.25	2.21	0.00	0.0	0.0	0.	0.00
195	30.500	28.20	0.0	0.0	0.0	6.33	0.53	0.00	0.53	0.00	1.75	0.21	0.25	2.22	0.00	0.0	0.0	0.	0.00
196	30.400	28.20	0.0	0.0	0.0	6.33	0.52	0.00	0.52	0.00	1.76	0.21	0.26	2.23	0.00	0.0	0.0	0.	0.00
197	30.300	28.20	0.0	0.0	0.0	6.33	0.51	0.00	0.51	0.00	1.76	0.21	0.26	2.23	0.00	0.0	0.0	0.	0.00
198	30.200	28.20	0.0	0.0	0.0	6.34	0.49	0.00	0.49	0.00	1.77	0.21	0.26	2.24	0.00	0.0	0.0	0.	0.00
199	30.100	28.20	0.0	0.0	0.0	6.34	0.48	0.00	0.48	0.00	1.77	0.21	0.26	2.25	0.00	0.0	0.0	0.	0.00
200	30.000	28.20	0.0	0.0	0.0	6.34	0.47	0.00	0.47	0.00	1.77	0.21	0.26	2.25	0.00	0.0	0.0	0.	0.00
201	29.900	28.20	0.0	0.0	0.0	6.34	0.46	0.00	0.46	0.00	1.78	0.22	0.26	2.26	0.00	0.0	0.0	0.	0.00
202	29.800	28.20	0.0	0.0	0.0	6.34	0.45	0.00	0.45	0.00	1.78	0.22	0.26	2.26	0.00	0.0	0.0	0.	0.00
203	29.700	28.20	0.0	0.0	0.0	6.34	0.44	0.00	0.44	0.00	1.79	0.22	0.27	2.27	0.00	0.0	0.0	0.	0.00
204	29.600	28.20	0.0	0.0	0.0	6.35	0.42	0.00	0.42	0.00	1.79	0.22	0.27	2.28	0.00	0.0	0.0	0.	0.00
205	29.500	28.20	0.0	0.0	0.0	6.35	0.41	0.00	0.41	0.00	1.79	0.22	0.27	2.28	0.00	0.0	0.0	0.	0.00
206	29.400	28.20	0.0	0.0	0.0	6.35	0.40	0.00	0.40	0.00	1.80	0.22	0.27	2.29	0.00	0.0	0.0	0.	0.00
207	29.300	28.20	0.0	0.0	0.0	6.35	0.39	0.00	0.39	0.00	1.80	0.22	0.27	2.29	0.00	0.0	0.0	0.	0.00
208	29.200	28.20	0.0	0.0	0.0	6.35	0.38	0.00	0.38	0.00	1.81	0.22	0.27	2.30	0.00	0.0	0.0	0.	0.00
209	29.100	28.20	0.0	0.0	0.0	6.35	0.37	0.00	0.37	0.00	1.81	0.22	0.28	2.31	0.00	0.0	0.0	0.	0.00
210	29.000	28.20	0.0	0.0	0.0	6.35	0.37	0.00	0.37	0.00	1.81	0.22	0.28	2.31	0.00	0.0	0.0	0.	0.00
211	28.900	28.20	0.0	0.0	0.0	6.36	0.36	0.00	0.36	0.00	1.82	0.22	0.28	2.32	0.00	0.0	0.0	0.	0.00
212	28.800	28.20	0.0	0.0	0.0	6.36	0.35	0.00	0.35	0.00	1.82	0.22	0.28	2.32	0.00	0.0	0.0	0.	0.00
213	28.700	28.20	0.0	0.0	0.0	6.36	0.34	0.00	0.34	0.00	1.83	0.22	0.28	2.33	0.00	0.0	0.0	0.	0.00
214	28.600	28.20	0.0	0.0	0.0	6.36	0.33	0.00	0.33	0.00	1.83	0.22	0.28	2.34	0.00	0.0	0.0	0.	0.00
215	28.500	28.20	0.0	0.0	0.0	6.36	0.32	0.00	0.32	0.00	1.83	0.22	0.29	2.34	0.00	0.0	0.0	0.	0.00
216	28.400	28.20	0.0	0.0	0.0	6.36	0.31	0.00	0.31	0.00	1.84	0.22	0.29	2.35	0.00	0.0	0.0	0.	0.00
217	28.300	28.20	0.0	0.0	0.0	6.36	0.31	0.00	0.31	0.00	1.84	0.22	0.29	2.35	0.00	0.0	0.0	0.	0.00
218	28.200	28.20	0.0	0.0	0.0	6.36	0.30	0.00	0.30	0.00	1.85	0.23	0.29	2.36	0.00	0.0	0.0	0.	0.00
219	28.100	28.20	0.0	0.0	0.0	6.36	0.29	0.00	0.29	0.00	1.85	0.23	0.29	2.37	0.00	0.0	0.0	0.	0.00
220	28.000	28.20	0.0	0.0	0.0	6.37	0.28	0.00	0.28	0.00	1.85	0.23	0.29	2.37	0.00	0.0	0.0	0.	0.00
221	27.900	28.20	0.0	0.0	0.0	6.37	0.28	0.00	0.28	0.00	1.86	0.23	0.30	2.38	0.00	0.0	0.0	0.	0.00
222	27.800	28.20	0.0	0.0	0.0	6.37	0.27	0.00	0.27	0.00	1.86	0.23	0.30	2.39	0.00	0.0	0.0	0.	0.00
223	27.700	28.20	0.0	0.0	0.0	6.37	0.26	0.00	0.26	0.00	1.86	0.23	0.30	2.39	0.00	0.0	0.0	0.	0.00
224	27.600	28.20	0.0	0.0	0.0	6.37	0.26	0.00	0.26	0.00	1.87	0.23	0.30	2.40	0.00	0.0	0.0	0.	0.00

225	27.500	28.20	0.0	0.0	0.0	6.37	0.25	0.00	0.25	0.00	1.87	0.23	0.30	2.40	0.00	0.0	0.0	0.	0.00
226	27.400	28.20	0.0	0.0	0.0	6.37	0.25	0.00	0.25	0.00	1.88	0.23	0.30	2.41	0.00	0.0	0.0	0.	0.00
227	27.300	28.20	0.0	0.0	0.0	6.37	0.24	0.00	0.24	0.00	1.88	0.23	0.31	2.42	0.00	0.0	0.0	0.	0.00
228	27.200	28.20	0.0	0.0	0.0	6.37	0.23	0.00	0.23	0.00	1.88	0.23	0.31	2.42	0.00	0.0	0.0	0.	0.00
229	27.100	28.20	0.0	0.0	0.0	6.37	0.23	0.00	0.23	0.00	1.89	0.23	0.31	2.43	0.00	0.0	0.0	0.	0.00
230	27.000	28.20	0.0	0.0	0.0	6.37	0.22	0.00	0.22	0.00	1.89	0.23	0.31	2.43	0.00	0.0	0.0	0.	0.00
231	26.900	28.20	0.0	0.0	0.0	6.38	0.22	0.00	0.22	0.00	1.90	0.23	0.31	2.44	0.00	0.0	0.0	0.	0.00
232	26.800	28.20	0.0	0.0	0.0	6.38	0.21	0.00	0.21	0.00	1.90	0.23	0.31	2.45	0.00	0.0	0.0	0.	0.00
233	26.700	28.20	0.0	0.0	0.0	6.38	0.21	0.00	0.21	0.00	1.90	0.23	0.32	2.45	0.00	0.0	0.0	0.	0.00
234	26.600	28.20	0.0	0.0	0.0	6.38	0.20	0.00	0.20	0.00	1.91	0.23	0.32	2.46	0.00	0.0	0.0	0.	0.00
235	26.500	28.20	0.0	0.0	0.0	6.38	0.20	0.00	0.20	0.00	1.91	0.23	0.32	2.46	0.00	0.0	0.0	0.	0.00
236	26.400	28.20	0.0	0.0	0.0	6.38	0.19	0.00	0.19	0.00	1.91	0.24	0.32	2.47	0.00	0.0	0.0	0.	0.00
237	26.300	28.20	0.0	0.0	0.0	6.38	0.19	0.00	0.19	0.00	1.92	0.24	0.32	2.48	0.00	0.0	0.0	0.	0.00
238	26.200	28.20	0.0	0.0	0.0	6.38	0.18	0.00	0.18	0.00	1.92	0.24	0.32	2.48	0.00	0.0	0.0	0.	0.00
239	26.100	28.20	0.0	0.0	0.0	6.38	0.18	0.00	0.18	0.00	1.93	0.24	0.33	2.49	0.00	0.0	0.0	0.	0.00
240	26.000	28.20	0.0	0.0	0.0	6.38	0.17	0.00	0.17	0.00	1.93	0.24	0.33	2.49	0.00	0.0	0.0	0.	0.00
241	25.900	28.20	0.0	0.0	0.0	6.38	0.17	0.00	0.17	0.00	1.93	0.24	0.33	2.50	0.00	0.0	0.0	0.	0.00
242	25.800	28.20	0.0	0.0	0.0	6.47	1.75	0.00	1.75	0.00	1.88	0.20	0.28	2.36	0.00	0.0	0.0	0.	0.00
243	25.700	28.20	0.0	0.0	0.0	6.45	1.71	0.00	1.71	0.00	1.89	0.20	0.28	2.37	0.00	0.0	0.0	0.	0.00
244	25.600	28.20	0.0	0.0	0.0	6.44	1.69	0.00	1.69	0.00	1.89	0.20	0.28	2.37	0.00	0.0	0.0	0.	0.00
245	25.500	28.20	0.0	0.0	0.0	6.43	1.67	0.00	1.67	0.00	1.89	0.20	0.28	2.38	0.00	0.0	0.0	0.	0.00
246	25.400	28.20	0.0	0.0	0.0	6.42	1.65	0.00	1.65	0.00	1.89	0.20	0.28	2.38	0.00	0.0	0.0	0.	0.00
247	25.300	28.20	0.0	0.0	0.0	6.42	1.63	0.00	1.63	0.00	1.89	0.21	0.29	2.38	0.00	0.0	0.0	0.	0.00
248	25.200	28.20	0.0	0.0	0.0	6.41	1.61	0.00	1.61	0.00	1.89	0.21	0.29	2.39	0.00	0.0	0.0	0.	0.00
249	25.100	28.20	0.0	0.0	0.0	6.41	1.60	0.00	1.60	0.00	1.89	0.21	0.29	2.39	0.00	0.0	0.0	0.	0.00
250	25.000	28.20	0.0	0.0	0.0	6.40	1.58	0.00	1.58	0.00	1.90	0.21	0.29	2.39	0.00	0.0	0.0	0.	0.00
251	24.900	28.20	0.0	0.0	0.0	6.40	1.56	0.00	1.56	0.00	1.90	0.21	0.29	2.40	0.00	0.0	0.0	0.	0.00
252	24.800	28.20	0.0	0.0	0.0	6.40	1.54	0.00	1.54	0.00	1.90	0.21	0.29	2.40	0.00	0.0	0.0	0.	0.00
253	24.700	28.20	0.0	0.0	0.0	6.40	1.52	0.00	1.52	0.00	1.90	0.21	0.29	2.40	0.00	0.0	0.0	0.	0.00
254	24.600	28.20	0.0	0.0	0.0	6.39	1.50	0.00	1.50	0.00	1.90	0.21	0.29	2.41	0.00	0.0	0.0	0.	0.00
255	24.500	28.20	0.0	0.0	0.0	6.39	1.48	0.00	1.48	0.00	1.90	0.21	0.30	2.41	0.00	0.0	0.0	0.	0.00
256	24.400	28.20	0.0	0.0	0.0	6.39	1.47	0.00	1.47	0.00	1.91	0.21	0.30	2.41	0.00	0.0	0.0	0.	0.00
257	24.300	28.20	0.0	0.0	0.0	6.39	1.45	0.00	1.45	0.00	1.91	0.21	0.30	2.42	0.00	0.0	0.0	0.	0.00
258	24.200	28.20	0.0	0.0	0.0	6.39	1.43	0.00	1.43	0.00	1.91	0.21	0.30	2.42	0.00	0.0	0.0	0.	0.00
259	24.100	28.20	0.0	0.0	0.0	6.39	1.42	0.00	1.42	0.00	1.91	0.21	0.30	2.42	0.00	0.0	0.0	0.	0.00
260	24.000	28.20	0.0	0.0	0.0	6.39	1.40	0.00	1.40	0.00	1.91	0.21	0.30	2.43	0.00	0.0	0.0	0.	0.00
261	23.900	28.20	0.0	0.0	0.0	6.39	1.38	0.00	1.38	0.00	1.91	0.21	0.30	2.43	0.00	0.0	0.0	0.	0.00
262	23.800	28.20	0.0	0.0	0.0	6.39	1.37	0.00	1.37	0.00	1.92	0.21	0.30	2.43	0.00	0.0	0.0	0.	0.00
263	23.700	28.20	0.0	0.0	0.0	6.39	1.35	0.00	1.35	0.00	1.92	0.21	0.31	2.43	0.00	0.0	0.0	0.	0.00
264	23.600	28.20	0.0	0.0	0.0	6.39	1.33	0.00	1.33	0.00	1.92	0.21	0.31	2.44	0.00	0.0	0.0	0.	0.00
265	23.500	28.20	0.0	0.0	0.0	6.40	1.32	0.00	1.32	0.00	1.92	0.21	0.31	2.44	0.00	0.0	0.0	0.	0.00
266	23.400	28.20	0.0	0.0	0.0	6.40	1.30	0.00	1.30	0.00	1.92	0.21	0.31	2.44	0.00	0.0	0.0	0.	0.00
267	23.300	28.20	0.0	0.0	0.0	6.40	1.29	0.00	1.29	0.00	1.92	0.21	0.31	2.45	0.00	0.0	0.0	0.	0.00
268	23.200	28.20	0.0	0.0	0.0	6.40	1.27	0.00	1.27	0.00	1.92	0.21	0.31	2.45	0.00	0.0	0.0	0.	0.00
269	23.100	28.20	0.0	0.0	0.0	6.40	1.26	0.00	1.26	0.00	1.93	0.21	0.31	2.45	0.00	0.0	0.0	0.	0.00
270	23.000	28.20	0.0	0.0	0.0	6.40	1.24	0.00	1.24	0.00	1.93	0.21	0.32	2.46	0.00	0.0	0.0	0.	0.00
271	22.900	28.20	0.0	0.0	0.0	6.40	1.23	0.00	1.23	0.00	1.93	0.21	0.32	2.46	0.00	0.0	0.0	0.	0.00
272	22.800	28.20	0.0	0.0	0.0	6.40	1.21	0.00	1.21	0.00	1.93	0.22	0.32	2.46	0.00	0.0	0.0	0.	0.00
273	22.700	28.20	0.0	0.0	0.0	6.40	1.20	0.00	1.20	0.00	1.93	0.22	0.32	2.47	0.00	0.0	0.0	0.	0.00
274	22.600	28.20	0.0	0.0	0.0	6.40	1.18	0.00	1.18	0.00	1.93	0.22	0.32	2.47	0.00	0.0	0.0	0.	0.00
275	22.500	28.20	0.0	0.0	0.0	6.40	1.17	0.00	1.17	0.00	1.94	0.22	0.32	2.47	0.00	0.0	0.0	0.	0.00
276	22.400	28.20	0.0	0.0	0.0	6.41	1.16	0.00	1.16	0.00	1.94	0.22	0.32	2.48	0.00	0.0	0.0	0.	0.00

277	22.300	28.20	0.0	0.0	0.0	6.41	1.14	0.00	1.14	0.00	1.94	0.22	0.32	2.48	0.00	0.0	0.0	0.	0.00
278	22.200	28.20	0.0	0.0	0.0	6.41	1.13	0.00	1.13	0.00	1.94	0.22	0.33	2.48	0.00	0.0	0.0	0.	0.00
279	22.100	28.20	0.0	0.0	0.0	6.41	1.11	0.00	1.11	0.00	1.94	0.22	0.33	2.49	0.00	0.0	0.0	0.	0.00
280	22.000	28.20	0.0	0.0	0.0	6.41	1.10	0.00	1.10	0.00	1.94	0.22	0.33	2.49	0.00	0.0	0.0	0.	0.00
281	21.900	28.20	0.0	0.0	0.0	6.41	1.09	0.00	1.09	0.00	1.94	0.22	0.33	2.49	0.00	0.0	0.0	0.	0.00
282	21.800	28.20	0.0	0.0	0.0	6.41	1.08	0.00	1.08	0.00	1.95	0.22	0.33	2.50	0.00	0.0	0.0	0.	0.00
283	21.700	28.20	0.0	0.0	0.0	6.41	1.06	0.00	1.06	0.00	1.95	0.22	0.33	2.50	0.00	0.0	0.0	0.	0.00
284	21.600	28.20	0.0	0.0	0.0	6.41	1.05	0.00	1.05	0.00	1.95	0.22	0.33	2.50	0.00	0.0	0.0	0.	0.00
285	21.500	28.20	0.0	0.0	0.0	6.41	1.04	0.00	1.04	0.00	1.95	0.22	0.34	2.51	0.00	0.0	0.0	0.	0.00
286	21.400	28.20	0.0	0.0	0.0	6.41	1.02	0.00	1.02	0.00	1.95	0.22	0.34	2.51	0.00	0.0	0.0	0.	0.00
287	21.300	28.20	0.0	0.0	0.0	6.42	1.01	0.00	1.01	0.00	1.95	0.22	0.34	2.51	0.00	0.0	0.0	0.	0.00
288	21.200	28.20	0.0	0.0	0.0	6.42	1.00	0.00	1.00	0.00	1.96	0.22	0.34	2.52	0.00	0.0	0.0	0.	0.00
289	21.100	28.20	0.0	0.0	0.0	6.42	0.99	0.00	0.99	0.00	1.96	0.22	0.34	2.52	0.00	0.0	0.0	0.	0.00
290	21.000	28.20	0.0	0.0	0.0	6.42	0.98	0.00	0.98	0.00	1.96	0.22	0.34	2.52	0.00	0.0	0.0	0.	0.00
291	20.900	28.20	0.0	0.0	0.0	6.42	0.97	0.00	0.97	0.00	1.96	0.22	0.34	2.53	0.00	0.0	0.0	0.	0.00
292	20.800	28.20	0.0	0.0	0.0	6.42	0.95	0.00	0.95	0.00	1.96	0.22	0.34	2.53	0.00	0.0	0.0	0.	0.00
293	20.700	28.20	0.0	0.0	0.0	6.42	0.94	0.00	0.94	0.00	1.96	0.22	0.35	2.53	0.00	0.0	0.0	0.	0.00
294	20.600	28.20	0.0	0.0	0.0	6.42	0.93	0.00	0.93	0.00	1.96	0.22	0.35	2.54	0.00	0.0	0.0	0.	0.00
295	20.500	28.20	0.0	0.0	0.0	6.42	0.92	0.00	0.92	0.00	1.97	0.22	0.35	2.54	0.00	0.0	0.0	0.	0.00
296	20.400	28.20	0.0	0.0	0.0	6.42	0.91	0.00	0.91	0.00	1.97	0.22	0.35	2.54	0.00	0.0	0.0	0.	0.00
297	20.300	28.20	0.0	0.0	0.0	6.42	0.90	0.00	0.90	0.00	1.97	0.22	0.35	2.55	0.00	0.0	0.0	0.	0.00
298	20.200	28.20	0.0	0.0	0.0	6.42	0.89	0.00	0.89	0.00	1.97	0.22	0.35	2.55	0.00	0.0	0.0	0.	0.00
299	20.100	28.20	0.0	0.0	0.0	6.43	0.88	0.00	0.88	0.00	1.97	0.23	0.35	2.55	0.00	0.0	0.0	0.	0.00
300	20.000	28.20	0.0	0.0	0.0	6.43	0.87	0.00	0.87	0.00	1.97	0.23	0.36	2.55	0.00	0.0	0.0	0.	0.00
301	19.900	28.20	0.0	0.0	0.0	6.43	0.86	0.00	0.86	0.00	1.97	0.23	0.36	2.56	0.00	0.0	0.0	0.	0.00
302	19.800	28.20	0.0	0.0	0.0	6.43	0.85	0.00	0.85	0.00	1.98	0.23	0.36	2.56	0.00	0.0	0.0	0.	0.00
303	19.700	28.20	0.0	0.0	0.0	6.43	0.84	0.00	0.84	0.00	1.98	0.23	0.36	2.56	0.00	0.0	0.0	0.	0.00
304	19.600	28.20	0.0	0.0	0.0	6.43	0.83	0.00	0.83	0.00	1.98	0.23	0.36	2.57	0.00	0.0	0.0	0.	0.00
305	19.500	28.20	0.0	0.0	0.0	6.43	0.82	0.00	0.82	0.00	1.98	0.23	0.36	2.57	0.00	0.0	0.0	0.	0.00
306	19.400	28.20	0.0	0.0	0.0	6.43	0.81	0.00	0.81	0.00	1.98	0.23	0.36	2.57	0.00	0.0	0.0	0.	0.00
307	19.300	28.20	0.0	0.0	0.0	6.43	0.80	0.00	0.80	0.00	1.98	0.23	0.37	2.58	0.00	0.0	0.0	0.	0.00
308	19.200	28.20	0.0	0.0	0.0	6.43	0.79	0.00	0.79	0.00	1.99	0.23	0.37	2.58	0.00	0.0	0.0	0.	0.00
309	19.100	28.20	0.0	0.0	0.0	6.43	0.78	0.00	0.78	0.00	1.99	0.23	0.37	2.58	0.00	0.0	0.0	0.	0.00
310	19.000	28.20	0.0	0.0	0.0	6.43	0.77	0.00	0.77	0.00	1.99	0.23	0.37	2.59	0.00	0.0	0.0	0.	0.00
311	18.900	28.20	0.0	0.0	0.0	6.43	0.76	0.00	0.76	0.00	1.99	0.23	0.37	2.59	0.00	0.0	0.0	0.	0.00
312	18.800	28.20	0.0	0.0	0.0	6.43	0.75	0.00	0.75	0.00	1.99	0.23	0.37	2.59	0.00	0.0	0.0	0.	0.00
313	18.700	28.20	0.0	0.0	0.0	6.44	0.74	0.00	0.74	0.00	1.99	0.23	0.37	2.60	0.00	0.0	0.0	0.	0.00
314	18.600	28.20	0.0	0.0	0.0	6.44	0.73	0.00	0.73	0.00	1.99	0.23	0.38	2.60	0.00	0.0	0.0	0.	0.00
315	18.500	28.20	0.0	0.0	0.0	6.44	0.72	0.00	0.72	0.00	2.00	0.23	0.38	2.60	0.00	0.0	0.0	0.	0.00
316	18.400	28.20	0.0	0.0	0.0	6.44	0.72	0.00	0.72	0.00	2.00	0.23	0.38	2.61	0.00	0.0	0.0	0.	0.00
317	18.300	28.20	0.0	0.0	0.0	6.44	0.71	0.00	0.71	0.00	2.00	0.23	0.38	2.61	0.00	0.0	0.0	0.	0.00
318	18.200	28.20	0.0	0.0	0.0	6.44	0.70	0.00	0.70	0.00	2.00	0.23	0.38	2.61	0.00	0.0	0.0	0.	0.00
319	18.100	28.20	0.0	0.0	0.0	6.44	0.69	0.00	0.69	0.00	2.00	0.23	0.38	2.62	0.00	0.0	0.0	0.	0.00
320	18.000	28.20	0.0	0.0	0.0	6.44	0.68	0.00	0.68	0.00	2.00	0.23	0.38	2.62	0.00	0.0	0.0	0.	0.00
321	17.900	28.20	0.0	0.0	0.0	6.44	0.67	0.00	0.67	0.00	2.00	0.23	0.39	2.62	0.00	0.0	0.0	0.	0.00
322	17.800	28.20	0.0	0.0	0.0	6.44	0.67	0.00	0.67	0.00	2.01	0.23	0.39	2.63	0.00	0.0	0.0	0.	0.00
323	17.700	28.20	0.0	0.0	0.0	6.44	0.66	0.00	0.66	0.00	2.01	0.23	0.39	2.63	0.00	0.0	0.0	0.	0.00
324	17.600	28.20	0.0	0.0	0.0	6.44	0.65	0.00	0.65	0.00	2.01	0.23	0.39	2.63	0.00	0.0	0.0	0.	0.00
325	17.500	28.20	0.0	0.0	0.0	6.44	0.64	0.00	0.64	0.00	2.01	0.23	0.39	2.64	0.00	0.0	0.0	0.	0.00
326	17.400	28.20	0.0	0.0	0.0	6.44	0.64	0.00	0.64	0.00	2.01	0.23	0.39	2.64	0.00	0.0	0.0	0.	0.00
327	17.300	28.20	0.0	0.0	0.0	6.44	0.63	0.00	0.63	0.00	2.01	0.23	0.39	2.64	0.00	0.0	0.0	0.	0.00
328	17.200	28.20	0.0	0.0	0.0	6.44	0.62	0.00	0.62	0.00	2.01	0.24	0.40	2.65	0.00	0.0	0.0	0.	0.00

329	17.100	28.20	0.0	0.0	0.0	6.44	0.61	0.00	0.61	0.00	2.02	0.24	0.40	2.65	0.00	0.0	0.0	0.	0.00
330	17.000	28.20	0.0	0.0	0.0	6.44	0.61	0.00	0.61	0.00	2.02	0.24	0.40	2.65	0.00	0.0	0.0	0.	0.00
331	16.900	28.20	0.0	0.0	0.0	6.45	0.60	0.00	0.60	0.00	2.02	0.24	0.40	2.66	0.00	0.0	0.0	0.	0.00
332	16.800	28.20	0.0	0.0	0.0	6.45	0.59	0.00	0.59	0.00	2.02	0.24	0.40	2.66	0.00	0.0	0.0	0.	0.00
333	16.700	28.20	0.0	0.0	0.0	6.45	0.58	0.00	0.58	0.00	2.02	0.24	0.40	2.66	0.00	0.0	0.0	0.	0.00
334	16.600	28.20	0.0	0.0	0.0	6.45	0.58	0.00	0.58	0.00	2.02	0.24	0.40	2.67	0.00	0.0	0.0	0.	0.00
335	16.500	28.20	0.0	0.0	0.0	6.45	0.57	0.00	0.57	0.00	2.03	0.24	0.41	2.67	0.00	0.0	0.0	0.	0.00
336	16.400	28.20	0.0	0.0	0.0	6.45	0.56	0.00	0.56	0.00	2.03	0.24	0.41	2.67	0.00	0.0	0.0	0.	0.00
337	16.300	28.20	0.0	0.0	0.0	6.45	0.56	0.00	0.56	0.00	2.03	0.24	0.41	2.67	0.00	0.0	0.0	0.	0.00
338	16.200	28.20	0.0	0.0	0.0	6.45	0.55	0.00	0.55	0.00	2.03	0.24	0.41	2.68	0.00	0.0	0.0	0.	0.00
339	16.100	28.20	0.0	0.0	0.0	6.56	2.07	0.00	2.07	0.00	1.94	0.21	0.36	2.51	0.00	0.0	0.0	0.	0.00
340	16.000	28.20	0.0	0.0	0.0	6.53	2.05	0.00	2.05	0.00	1.94	0.21	0.36	2.51	0.00	0.0	0.0	0.	0.00
341	15.900	28.20	0.0	0.0	0.0	6.51	2.03	0.00	2.03	0.00	1.94	0.21	0.36	2.51	0.00	0.0	0.0	0.	0.00
342	15.800	28.20	0.0	0.0	0.0	6.48	2.01	0.00	2.01	0.00	1.94	0.21	0.36	2.52	0.00	0.0	0.0	0.	0.00
343	15.700	28.20	0.0	0.0	0.0	6.46	1.99	0.00	1.99	0.00	1.95	0.21	0.36	2.52	0.00	0.0	0.0	0.	0.00
344	15.600	28.20	0.0	0.0	0.0	6.44	1.97	0.00	1.97	0.00	1.95	0.21	0.36	2.52	0.00	0.0	0.0	0.	0.00
345	15.500	28.20	0.0	0.0	0.0	6.43	1.95	0.00	1.95	0.00	1.95	0.21	0.36	2.52	0.00	0.0	0.0	0.	0.00
346	15.400	28.20	0.0	0.0	0.0	6.41	1.94	0.00	1.94	0.00	1.95	0.21	0.36	2.53	0.00	0.0	0.0	0.	0.00
347	15.300	28.20	0.0	0.0	0.0	6.40	1.92	0.00	1.92	0.00	1.95	0.21	0.37	2.53	0.00	0.0	0.0	0.	0.00
348	15.200	28.20	0.0	0.0	0.0	6.39	1.90	0.00	1.90	0.00	1.95	0.21	0.37	2.53	0.00	0.0	0.0	0.	0.00
349	15.100	28.20	0.0	0.0	0.0	6.38	1.88	0.00	1.88	0.00	1.96	0.21	0.37	2.54	0.00	0.0	0.0	0.	0.00
350	15.000	28.20	0.0	0.0	0.0	6.37	1.86	0.00	1.86	0.00	1.96	0.21	0.37	2.54	0.00	0.0	0.0	0.	0.00
351	14.900	28.20	0.0	0.0	0.0	6.37	1.84	0.00	1.84	0.00	1.96	0.21	0.37	2.54	0.00	0.0	0.0	0.	0.00
352	14.800	28.20	0.0	0.0	0.0	6.36	1.83	0.00	1.83	0.00	1.96	0.21	0.37	2.54	0.00	0.0	0.0	0.	0.00
353	14.700	28.20	0.0	0.0	0.0	6.36	1.81	0.00	1.81	0.00	1.96	0.21	0.37	2.55	0.00	0.0	0.0	0.	0.00
354	14.600	28.20	0.0	0.0	0.0	6.35	1.79	0.00	1.79	0.00	1.96	0.21	0.37	2.55	0.00	0.0	0.0	0.	0.00
355	14.500	28.20	0.0	0.0	0.0	6.35	1.77	0.00	1.77	0.00	1.97	0.22	0.37	2.55	0.00	0.0	0.0	0.	0.00
356	14.400	28.20	0.0	0.0	0.0	6.35	1.76	0.00	1.76	0.00	1.97	0.22	0.37	2.56	0.00	0.0	0.0	0.	0.00
357	14.300	28.20	0.0	0.0	0.0	6.34	1.74	0.00	1.74	0.00	1.97	0.22	0.38	2.56	0.00	0.0	0.0	0.	0.00
358	14.200	28.20	0.0	0.0	0.0	6.34	1.72	0.00	1.72	0.00	1.97	0.22	0.38	2.56	0.00	0.0	0.0	0.	0.00
359	14.100	28.20	0.0	0.0	0.0	6.34	1.71	0.00	1.71	0.00	1.97	0.22	0.38	2.57	0.00	0.0	0.0	0.	0.00
360	14.000	28.20	0.0	0.0	0.0	6.34	1.69	0.00	1.69	0.00	1.97	0.22	0.38	2.57	0.00	0.0	0.0	0.	0.00
361	13.900	28.20	0.0	0.0	0.0	6.34	1.67	0.00	1.67	0.00	1.97	0.22	0.38	2.57	0.00	0.0	0.0	0.	0.00
362	13.800	28.20	0.0	0.0	0.0	6.34	1.66	0.00	1.66	0.00	1.98	0.22	0.38	2.57	0.00	0.0	0.0	0.	0.00
363	13.700	28.20	0.0	0.0	0.0	6.34	1.64	0.00	1.64	0.00	1.98	0.22	0.38	2.58	0.00	0.0	0.0	0.	0.00
364	13.600	28.20	0.0	0.0	0.0	6.34	1.62	0.00	1.62	0.00	1.98	0.22	0.38	2.58	0.00	0.0	0.0	0.	0.00
365	13.500	28.20	0.0	0.0	0.0	6.34	1.61	0.00	1.61	0.00	1.98	0.22	0.38	2.58	0.00	0.0	0.0	0.	0.00
366	13.400	28.20	0.0	0.0	0.0	6.34	1.59	0.00	1.59	0.00	1.98	0.22	0.39	2.59	0.00	0.0	0.0	0.	0.00
367	13.300	28.20	0.0	0.0	0.0	6.34	1.58	0.00	1.58	0.00	1.98	0.22	0.39	2.59	0.00	0.0	0.0	0.	0.00
368	13.200	28.20	0.0	0.0	0.0	6.34	1.56	0.00	1.56	0.00	1.99	0.22	0.39	2.59	0.00	0.0	0.0	0.	0.00
369	13.100	28.20	0.0	0.0	0.0	6.34	1.55	0.00	1.55	0.00	1.99	0.22	0.39	2.60	0.00	0.0	0.0	0.	0.00
370	13.000	28.20	0.0	0.0	0.0	6.34	1.53	0.00	1.53	0.00	1.99	0.22	0.39	2.60	0.00	0.0	0.0	0.	0.00
371	12.900	28.20	0.0	0.0	0.0	6.34	1.52	0.00	1.52	0.00	1.99	0.22	0.39	2.60	0.00	0.0	0.0	0.	0.00
372	12.800	28.20	0.0	0.0	0.0	6.34	1.50	0.00	1.50	0.00	1.99	0.22	0.39	2.60	0.00	0.0	0.0	0.	0.00
373	12.700	28.20	0.0	0.0	0.0	6.34	1.49	0.00	1.49	0.00	1.99	0.22	0.39	2.61	0.00	0.0	0.0	0.	0.00
374	12.600	28.20	0.0	0.0	0.0	6.34	1.47	0.00	1.47	0.00	1.99	0.22	0.39	2.61	0.00	0.0	0.0	0.	0.00
375	12.500	28.20	0.0	0.0	0.0	6.34	1.46	0.00	1.46	0.00	2.00	0.22	0.40	2.61	0.00	0.0	0.0	0.	0.00
376	12.400	28.20	0.0	0.0	0.0	6.34	1.44	0.00	1.44	0.00	2.00	0.22	0.40	2.62	0.00	0.0	0.0	0.	0.00
377	12.300	28.20	0.0	0.0	0.0	6.34	1.43	0.00	1.43	0.00	2.00	0.22	0.40	2.62	0.00	0.0	0.0	0.	0.00
378	12.200	28.20	0.0	0.0	0.0	6.34	1.42	0.00	1.42	0.00	2.00	0.22	0.40	2.62	0.00	0.0	0.0	0.	0.00
379	12.100	28.20	0.0	0.0	0.0	6.34	1.40	0.00	1.40	0.00	2.00	0.22	0.40	2.63	0.00	0.0	0.0	0.	0.00
380	12.000	28.20	0.0	0.0	0.0	6.34	1.39	0.00	1.39	0.00	2.00	0.22	0.40	2.63	0.00	0.0	0.0	0.	0.00

381	11.900	28.20	0.0	0.0	0.0	6.35	1.38	0.00	1.38	0.00	2.01	0.22	0.40	2.63	0.00	0.0	0.0	0.	0.00
382	11.800	28.20	0.0	0.0	0.0	6.35	1.36	0.00	1.36	0.00	2.01	0.22	0.40	2.63	0.00	0.0	0.0	0.	0.00
383	11.700	28.20	0.0	0.0	0.0	6.35	1.35	0.00	1.35	0.00	2.01	0.22	0.40	2.64	0.00	0.0	0.0	0.	0.00
384	11.600	28.20	0.0	0.0	0.0	6.35	1.34	0.00	1.34	0.00	2.01	0.22	0.41	2.64	0.00	0.0	0.0	0.	0.00
385	11.500	28.20	0.0	0.0	0.0	6.35	1.32	0.00	1.32	0.00	2.01	0.22	0.41	2.64	0.00	0.0	0.0	0.	0.00
386	11.400	28.20	0.0	0.0	0.0	6.35	1.31	0.00	1.31	0.00	2.01	0.23	0.41	2.65	0.00	0.0	0.0	0.	0.00
387	11.300	28.20	0.0	0.0	0.0	6.35	1.30	0.00	1.30	0.00	2.01	0.23	0.41	2.65	0.00	0.0	0.0	0.	0.00
388	11.200	28.20	0.0	0.0	0.0	6.35	1.29	0.00	1.29	0.00	2.02	0.23	0.41	2.65	0.00	0.0	0.0	0.	0.00
389	11.100	28.20	0.0	0.0	0.0	6.35	1.27	0.00	1.27	0.00	2.02	0.23	0.41	2.65	0.00	0.0	0.0	0.	0.00
390	11.000	28.20	0.0	0.0	0.0	6.35	1.26	0.00	1.26	0.00	2.02	0.23	0.41	2.66	0.00	0.0	0.0	0.	0.00
391	10.900	28.20	0.0	0.0	0.0	6.35	1.25	0.00	1.25	0.00	2.02	0.23	0.41	2.66	0.00	0.0	0.0	0.	0.00
392	10.800	28.20	0.0	0.0	0.0	6.35	1.24	0.00	1.24	0.00	2.02	0.23	0.41	2.66	0.00	0.0	0.0	0.	0.00
393	10.700	28.20	0.0	0.0	0.0	6.36	1.22	0.00	1.22	0.00	2.02	0.23	0.42	2.67	0.00	0.0	0.0	0.	0.00
394	10.600	28.20	0.0	0.0	0.0	6.36	1.21	0.00	1.21	0.00	2.03	0.23	0.42	2.67	0.00	0.0	0.0	0.	0.00
395	10.500	28.20	0.0	0.0	0.0	6.36	1.20	0.00	1.20	0.00	2.03	0.23	0.42	2.67	0.00	0.0	0.0	0.	0.00
396	10.400	28.20	0.0	0.0	0.0	6.36	1.19	0.00	1.19	0.00	2.03	0.23	0.42	2.68	0.00	0.0	0.0	0.	0.00
397	10.300	28.20	0.0	0.0	0.0	6.36	1.18	0.00	1.18	0.00	2.03	0.23	0.42	2.68	0.00	0.0	0.0	0.	0.00
398	10.200	28.20	0.0	0.0	0.0	6.36	1.17	0.00	1.17	0.00	2.03	0.23	0.42	2.68	0.00	0.0	0.0	0.	0.00
399	10.100	28.20	0.0	0.0	0.0	6.36	1.15	0.00	1.15	0.00	2.03	0.23	0.42	2.68	0.00	0.0	0.0	0.	0.00
400	10.000	28.20	0.0	0.0	0.0	6.36	1.14	0.00	1.14	0.00	2.03	0.23	0.42	2.69	0.00	0.0	0.0	0.	0.00
401	9.900	28.20	0.0	0.0	0.0	6.36	1.13	0.00	1.13	0.00	2.04	0.23	0.42	2.69	0.00	0.0	0.0	0.	0.00
402	9.800	28.20	0.0	0.0	0.0	6.36	1.12	0.00	1.12	0.00	2.04	0.23	0.43	2.69	0.00	0.0	0.0	0.	0.00
403	9.700	28.20	0.0	0.0	0.0	6.36	1.11	0.00	1.11	0.00	2.04	0.23	0.43	2.70	0.00	0.0	0.0	0.	0.00
404	9.600	28.20	0.0	0.0	0.0	6.36	1.10	0.00	1.10	0.00	2.04	0.23	0.43	2.70	0.00	0.0	0.0	0.	0.00
405	9.500	28.20	0.0	0.0	0.0	6.36	1.09	0.00	1.09	0.00	2.04	0.23	0.43	2.70	0.00	0.0	0.0	0.	0.00
406	9.400	28.20	0.0	0.0	0.0	6.37	1.08	0.00	1.08	0.00	2.04	0.23	0.43	2.71	0.00	0.0	0.0	0.	0.00
407	9.300	28.20	0.0	0.0	0.0	6.37	1.07	0.00	1.07	0.00	2.04	0.23	0.43	2.71	0.00	0.0	0.0	0.	0.00
408	9.200	28.20	0.0	0.0	0.0	6.37	1.06	0.00	1.06	0.00	2.05	0.23	0.43	2.71	0.00	0.0	0.0	0.	0.00
409	9.100	28.20	0.0	0.0	0.0	6.37	1.05	0.00	1.05	0.00	2.05	0.23	0.43	2.71	0.00	0.0	0.0	0.	0.00
410	9.000	28.20	0.0	0.0	0.0	6.37	1.04	0.00	1.04	0.00	2.05	0.23	0.44	2.72	0.00	0.0	0.0	0.	0.00
411	8.900	28.20	0.0	0.0	0.0	6.37	1.03	0.00	1.03	0.00	2.05	0.23	0.44	2.72	0.00	0.0	0.0	0.	0.00
412	8.800	28.20	0.0	0.0	0.0	6.37	1.02	0.00	1.02	0.00	2.05	0.23	0.44	2.72	0.00	0.0	0.0	0.	0.00
413	8.700	28.20	0.0	0.0	0.0	6.37	1.01	0.00	1.01	0.00	2.05	0.23	0.44	2.73	0.00	0.0	0.0	0.	0.00
414	8.600	28.20	0.0	0.0	0.0	6.37	1.00	0.00	1.00	0.00	2.06	0.23	0.44	2.73	0.00	0.0	0.0	0.	0.00
415	8.500	28.20	0.0	0.0	0.0	6.37	0.99	0.00	0.99	0.00	2.06	0.23	0.44	2.73	0.00	0.0	0.0	0.	0.00
416	8.400	28.20	0.0	0.0	0.0	6.37	0.98	0.00	0.98	0.00	2.06	0.23	0.44	2.74	0.00	0.0	0.0	0.	0.00
417	8.300	28.20	0.0	0.0	0.0	6.37	0.97	0.00	0.97	0.00	2.06	0.23	0.44	2.74	0.00	0.0	0.0	0.	0.00
418	8.200	28.20	0.0	0.0	0.0	6.37	0.96	0.00	0.96	0.00	2.06	0.24	0.44	2.74	0.00	0.0	0.0	0.	0.00
419	8.100	28.20	0.0	0.0	0.0	6.53	2.56	0.00	2.56	0.00	1.95	0.20	0.38	2.53	0.00	0.0	0.0	0.	0.00
420	8.000	28.20	0.0	0.0	0.0	6.52	2.54	0.00	2.54	0.00	1.95	0.20	0.38	2.53	0.00	0.0	0.0	0.	0.00
421	7.900	28.20	0.0	0.0	0.0	6.50	2.52	0.00	2.52	0.00	1.96	0.20	0.38	2.54	0.00	0.0	0.0	0.	0.00
422	7.800	28.20	0.0	0.0	0.0	6.48	2.50	0.00	2.50	0.00	1.96	0.20	0.38	2.54	0.00	0.0	0.0	0.	0.00
423	7.700	28.20	0.0	0.0	0.0	6.46	2.48	0.00	2.48	0.00	1.96	0.20	0.38	2.54	0.00	0.0	0.0	0.	0.00
424	7.600	28.20	0.0	0.0	0.0	6.45	2.46	0.00	2.46	0.00	1.96	0.21	0.38	2.54	0.00	0.0	0.0	0.	0.00
425	7.500	28.20	0.0	0.0	0.0	6.43	2.45	0.00	2.45	0.00	1.96	0.21	0.38	2.55	0.00	0.0	0.0	0.	0.00
426	7.400	28.20	0.0	0.0	0.0	6.42	2.43	0.00	2.43	0.00	1.96	0.21	0.38	2.55	0.00	0.0	0.0	0.	0.00
427	7.300	28.20	0.0	0.0	0.0	6.41	2.41	0.00	2.41	0.00	1.96	0.21	0.38	2.55	0.00	0.0	0.0	0.	0.00
428	7.200	28.20	0.0	0.0	0.0	6.40	2.39	0.00	2.39	0.00	1.96	0.21	0.38	2.55	0.00	0.0	0.0	0.	0.00
429	7.100	28.20	0.0	0.0	0.0	6.39	2.37	0.00	2.37	0.00	1.96	0.21	0.38	2.55	0.00	0.0	0.0	0.	0.00
430	7.000	28.20	0.0	0.0	0.0	6.39	2.35	0.00	2.35	0.00	1.97	0.21	0.38	2.56	0.00	0.0	0.0	0.	0.00
431	6.900	28.20	0.0	0.0	0.0	6.38	2.33	0.00	2.33	0.00	1.97	0.21	0.39	2.56	0.00	0.0	0.0	0.	0.00
432	6.800	28.20	0.0	0.0	0.0	6.37	2.32	0.00	2.32	0.00	1.97	0.21	0.39	2.56	0.00	0.0	0.0	0.	0.00

433	6.700	28.20	0.0	0.0	0.0	6.37	2.30	0.00	2.30	0.00	1.97	0.21	0.39	2.56	0.00	0.0	0.0	0.	0.00
434	6.600	28.20	0.0	0.0	0.0	6.37	2.28	0.00	2.28	0.00	1.97	0.21	0.39	2.57	0.00	0.0	0.0	0.	0.00
435	6.500	28.20	0.0	0.0	0.0	6.36	2.26	0.00	2.26	0.00	1.97	0.21	0.39	2.57	0.00	0.0	0.0	0.	0.00
436	6.400	28.20	0.0	0.0	0.0	6.36	2.25	0.00	2.25	0.00	1.97	0.21	0.39	2.57	0.00	0.0	0.0	0.	0.00
437	6.300	28.20	0.0	0.0	0.0	6.36	2.23	0.00	2.23	0.00	1.97	0.21	0.39	2.57	0.00	0.0	0.0	0.	0.00
438	6.200	28.20	0.0	0.0	0.0	6.35	2.21	0.00	2.21	0.00	1.97	0.21	0.39	2.57	0.00	0.0	0.0	0.	0.00
439	6.100	28.20	0.0	0.0	0.0	6.35	2.19	0.00	2.19	0.00	1.98	0.21	0.39	2.58	0.00	0.0	0.0	0.	0.00
440	6.000	28.20	0.0	0.0	0.0	6.35	2.18	0.00	2.18	0.00	1.98	0.21	0.39	2.58	0.00	0.0	0.0	0.	0.00
441	5.900	28.20	0.0	0.0	0.0	6.35	2.16	0.00	2.16	0.00	1.98	0.21	0.39	2.58	0.00	0.0	0.0	0.	0.00
442	5.800	28.20	0.0	0.0	0.0	6.35	2.14	0.00	2.14	0.00	1.98	0.21	0.39	2.58	0.00	0.0	0.0	0.	0.00
443	5.700	28.20	0.0	0.0	0.0	6.35	2.13	0.00	2.13	0.00	1.98	0.21	0.40	2.59	0.00	0.0	0.0	0.	0.00
444	5.600	28.20	0.0	0.0	0.0	6.35	2.11	0.00	2.11	0.00	1.98	0.21	0.40	2.59	0.00	0.0	0.0	0.	0.00
445	5.500	28.20	0.0	0.0	0.0	6.35	2.10	0.00	2.10	0.00	1.98	0.21	0.40	2.59	0.00	0.0	0.0	0.	0.00
446	5.400	28.20	0.0	0.0	0.0	6.35	2.08	0.00	2.08	0.00	1.98	0.21	0.40	2.59	0.00	0.0	0.0	0.	0.00
447	5.300	28.20	0.0	0.0	0.0	6.35	2.06	0.00	2.06	0.00	1.98	0.21	0.40	2.59	0.00	0.0	0.0	0.	0.00
448	5.200	28.20	0.0	0.0	0.0	6.35	2.05	0.00	2.05	0.00	1.99	0.21	0.40	2.60	0.00	0.0	0.0	0.	0.00
449	5.100	28.20	0.0	0.0	0.0	6.35	2.03	0.00	2.03	0.00	1.99	0.21	0.40	2.60	0.00	0.0	0.0	0.	0.00
450	5.000	28.20	0.0	0.0	0.0	6.35	2.02	0.00	2.02	0.00	1.99	0.21	0.40	2.60	0.00	0.0	0.0	0.	0.00
451	4.900	28.20	0.0	0.0	0.0	6.35	2.00	0.00	2.00	0.00	1.99	0.21	0.40	2.60	0.00	0.0	0.0	0.	0.00
452	4.800	28.20	0.0	0.0	0.0	6.35	1.98	0.00	1.98	0.00	1.99	0.21	0.40	2.61	0.00	0.0	0.0	0.	0.00
453	4.700	28.20	0.0	0.0	0.0	6.35	1.97	0.00	1.97	0.00	1.99	0.21	0.40	2.61	0.00	0.0	0.0	0.	0.00
454	4.600	28.20	0.0	0.0	0.0	6.35	1.95	0.00	1.95	0.00	1.99	0.21	0.40	2.61	0.00	0.0	0.0	0.	0.00
455	4.500	28.20	0.0	0.0	0.0	6.35	1.94	0.00	1.94	0.00	1.99	0.21	0.41	2.61	0.00	0.0	0.0	0.	0.00
456	4.400	28.20	0.0	0.0	0.0	6.35	1.92	0.00	1.92	0.00	1.99	0.21	0.41	2.61	0.00	0.0	0.0	0.	0.00
457	4.300	28.20	0.0	0.0	0.0	6.35	1.91	0.00	1.91	0.00	2.00	0.21	0.41	2.62	0.00	0.0	0.0	0.	0.00
458	4.200	28.20	0.0	0.0	0.0	6.35	1.89	0.00	1.89	0.00	2.00	0.22	0.41	2.62	0.00	0.0	0.0	0.	0.00
459	4.100	28.20	0.0	0.0	0.0	6.35	1.88	0.00	1.88	0.00	2.00	0.22	0.41	2.62	0.00	0.0	0.0	0.	0.00
460	4.000	28.20	0.0	0.0	0.0	6.35	1.87	0.00	1.87	0.00	2.00	0.22	0.41	2.62	0.00	0.0	0.0	0.	0.00
461	3.900	28.20	0.0	0.0	0.0	6.35	1.85	0.00	1.85	0.00	2.00	0.22	0.41	2.63	0.00	0.0	0.0	0.	0.00
462	3.800	28.20	0.0	0.0	0.0	6.35	1.84	0.00	1.84	0.00	2.00	0.22	0.41	2.63	0.00	0.0	0.0	0.	0.00
463	3.700	28.20	0.0	0.0	0.0	6.35	1.82	0.00	1.82	0.00	2.00	0.22	0.41	2.63	0.00	0.0	0.0	0.	0.00
464	3.600	28.20	0.0	0.0	0.0	6.35	1.81	0.00	1.81	0.00	2.00	0.22	0.41	2.63	0.00	0.0	0.0	0.	0.00
465	3.500	28.20	0.0	0.0	0.0	6.35	1.80	0.00	1.80	0.00	2.00	0.22	0.41	2.64	0.00	0.0	0.0	0.	0.00
466	3.400	28.20	0.0	0.0	0.0	6.36	1.78	0.00	1.78	0.00	2.01	0.22	0.41	2.64	0.00	0.0	0.0	0.	0.00
467	3.300	28.20	0.0	0.0	0.0	6.36	1.77	0.00	1.77	0.00	2.01	0.22	0.42	2.64	0.00	0.0	0.0	0.	0.00
468	3.200	28.20	0.0	0.0	0.0	6.36	1.75	0.00	1.75	0.00	2.01	0.22	0.42	2.64	0.00	0.0	0.0	0.	0.00
469	3.100	28.20	0.0	0.0	0.0	6.36	1.74	0.00	1.74	0.00	2.01	0.22	0.42	2.64	0.00	0.0	0.0	0.	0.00
470	3.000	28.20	0.0	0.0	0.0	6.36	1.73	0.00	1.73	0.00	2.01	0.22	0.42	2.65	0.00	0.0	0.0	0.	0.00
471	2.900	28.20	0.0	0.0	0.0	6.36	1.71	0.00	1.71	0.00	2.01	0.22	0.42	2.65	0.00	0.0	0.0	0.	0.00
472	2.800	28.20	0.0	0.0	0.0	6.36	1.70	0.00	1.70	0.00	2.01	0.22	0.42	2.65	0.00	0.0	0.0	0.	0.00
473	2.700	28.20	0.0	0.0	0.0	6.36	1.69	0.00	1.69	0.00	2.01	0.22	0.42	2.65	0.00	0.0	0.0	0.	0.00
474	2.600	28.20	0.0	0.0	0.0	6.36	1.67	0.00	1.67	0.00	2.01	0.22	0.42	2.66	0.00	0.0	0.0	0.	0.00
475	2.500	28.20	0.0	0.0	0.0	6.36	1.66	0.00	1.66	0.00	2.02	0.22	0.42	2.66	0.00	0.0	0.0	0.	0.00
476	2.400	28.20	0.0	0.0	0.0	6.36	1.65	0.00	1.65	0.00	2.02	0.22	0.42	2.66	0.00	0.0	0.0	0.	0.00
477	2.300	28.20	0.0	0.0	0.0	6.36	1.64	0.00	1.64	0.00	2.02	0.22	0.42	2.66	0.00	0.0	0.0	0.	0.00
478	2.200	28.20	0.0	0.0	0.0	6.36	1.62	0.00	1.62	0.00	2.02	0.22	0.43	2.66	0.00	0.0	0.0	0.	0.00
479	2.100	28.20	0.0	0.0	0.0	6.37	1.61	0.00	1.61	0.00	2.02	0.22	0.43	2.67	0.00	0.0	0.0	0.	0.00
480	2.000	28.20	0.0	0.0	0.0	6.37	1.60	0.00	1.60	0.00	2.02	0.22	0.43	2.67	0.00	0.0	0.0	0.	0.00
481	1.900	28.20	0.0	0.0	0.0	6.37	1.59	0.00	1.59	0.00	2.02	0.22	0.43	2.67	0.00	0.0	0.0	0.	0.00
482	1.800	28.20	0.0	0.0	0.0	6.37	1.57	0.00	1.57	0.00	2.02	0.22	0.43	2.67	0.00	0.0	0.0	0.	0.00
483	1.700	28.20	0.0	0.0	0.0	6.37	1.56	0.00	1.56	0.00	2.02	0.22	0.43	2.68	0.00	0.0	0.0	0.	0.00
484	1.600	28.20	0.0	0.0	0.0	6.37	1.55	0.00	1.55	0.00	2.03	0.22	0.43	2.68	0.00	0.0	0.0	0.	0.00

485	1.500	28.20	0.0	0.0	0.0	6.37	1.54	0.00	1.54	0.00	2.03	0.22	0.43	2.68	0.00	0.0	0.0	0.	0.00
486	1.400	28.20	0.0	0.0	0.0	6.37	1.53	0.00	1.53	0.00	2.03	0.22	0.43	2.68	0.00	0.0	0.0	0.	0.00
487	1.300	28.20	0.0	0.0	0.0	6.37	1.51	0.00	1.51	0.00	2.03	0.22	0.43	2.68	0.00	0.0	0.0	0.	0.00
488	1.200	28.20	0.0	0.0	0.0	6.37	1.50	0.00	1.50	0.00	2.03	0.22	0.43	2.69	0.00	0.0	0.0	0.	0.00
489	1.100	28.20	0.0	0.0	0.0	6.37	1.49	0.00	1.49	0.00	2.03	0.22	0.43	2.69	0.00	0.0	0.0	0.	0.00
490	1.000	28.20	0.0	0.0	0.0	6.37	1.48	0.00	1.48	0.00	2.03	0.22	0.44	2.69	0.00	0.0	0.0	0.	0.00
491	0.900	28.20	0.0	0.0	0.0	6.37	1.47	0.00	1.47	0.00	2.03	0.22	0.44	2.69	0.00	0.0	0.0	0.	0.00
492	0.800	28.20	0.0	0.0	0.0	6.38	1.46	0.00	1.46	0.00	2.03	0.22	0.44	2.70	0.00	0.0	0.0	0.	0.00
493	0.700	28.20	0.0	0.0	0.0	6.38	1.45	0.00	1.45	0.00	2.03	0.22	0.44	2.70	0.00	0.0	0.0	0.	0.00
494	0.600	28.20	0.0	0.0	0.0	6.38	1.43	0.00	1.43	0.00	2.04	0.23	0.44	2.70	0.00	0.0	0.0	0.	0.00
495	0.500	28.20	0.0	0.0	0.0	6.38	1.42	0.00	1.42	0.00	2.04	0.23	0.44	2.70	0.00	0.0	0.0	0.	0.00
496	0.400	28.20	0.0	0.0	0.0	6.38	1.41	0.00	1.41	0.00	2.04	0.23	0.44	2.70	0.00	0.0	0.0	0.	0.00
497	0.300	28.20	0.0	0.0	0.0	6.38	1.40	0.00	1.40	0.00	2.04	0.23	0.44	2.71	0.00	0.0	0.0	0.	0.00
498	0.200	28.20	0.0	0.0	0.0	6.38	1.39	0.00	1.39	0.00	2.04	0.23	0.44	2.71	0.00	0.0	0.0	0.	0.00
499	0.100	28.20	0.0	0.0	0.0	6.38	1.38	0.00	1.38	0.00	2.04	0.23	0.44	2.71	0.00	0.0	0.0	0.	0.00
500	0.000	28.20	0.0	0.0	0.0	6.38	1.37	0.00	1.37	0.00	2.04	0.23	0.44	2.71	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Pierre
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#2 SETT 1/da	ABOD#2 DECAY 1/da	FULL SOD *	CORR SOD *	ORG-N DECAY 1/da	ORG-N SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	49.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	49.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	49.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	49.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	49.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	49.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	49.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	49.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	49.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	49.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	48.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	48.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	48.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	48.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	48.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	48.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	48.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	48.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	48.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	48.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	47.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	47.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	47.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	47.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	47.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	47.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	47.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

28	47.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	47.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	47.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	46.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	46.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	46.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	46.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	46.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	46.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	46.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	46.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	46.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	46.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	45.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	45.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	45.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	45.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	45.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	45.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	45.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	45.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	45.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	45.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	44.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	44.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	44.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	44.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	44.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	44.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	44.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	44.200	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	44.100	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	44.000	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	43.900	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	43.800	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	43.700	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	43.600	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	43.500	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	43.400	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	43.300	7.80	3.85	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	43.200	7.80	5.15	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	43.100	7.80	5.15	0.06	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	43.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	42.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	42.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	42.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	42.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	42.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	42.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	42.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	42.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	42.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

80	42.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	41.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	41.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	41.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	41.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	41.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	41.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	41.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	41.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	41.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	41.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	40.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	40.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	40.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	40.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	40.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	40.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	40.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	40.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	40.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	40.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	39.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	39.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	39.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	39.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	39.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	39.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	39.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	39.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	39.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	39.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	38.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	38.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	38.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	38.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	38.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	38.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	38.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	38.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	38.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	38.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	37.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	37.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	37.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	37.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	37.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	37.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	37.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	37.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	37.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	37.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	36.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

132	36.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	36.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	36.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	36.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	36.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	36.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	36.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	36.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	36.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	35.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	35.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	35.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	35.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	35.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	35.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	35.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	35.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	35.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	35.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	34.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	34.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	34.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	34.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	34.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	34.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	34.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	34.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	34.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	34.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	33.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	33.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	33.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	33.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	33.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	33.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	33.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	33.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	33.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	33.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	32.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	32.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	32.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	32.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	32.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	32.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	32.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	32.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	32.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	32.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	31.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	31.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	31.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

184	31.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	31.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	31.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	31.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	31.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189	31.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	31.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	30.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	30.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	30.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	30.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	30.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	30.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	30.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	30.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	30.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	30.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	29.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	29.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	29.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	29.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	29.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	29.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	29.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	29.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	29.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	29.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	28.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	28.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	28.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	28.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	28.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	28.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	28.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	28.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	28.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	28.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	27.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	27.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	27.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	27.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	27.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	27.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	27.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	27.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	27.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	27.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	26.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	26.800	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	26.700	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	26.600	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	26.500	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

236	26.400	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	26.300	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	26.200	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	26.100	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240	26.000	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	25.900	7.80	4.24	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
242	25.800	7.80	4.60	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	25.700	7.80	4.60	0.57	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	25.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	25.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	25.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	25.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	25.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
249	25.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	25.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	24.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	24.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	24.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	24.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	24.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	24.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	24.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	24.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	24.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	24.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	23.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	23.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	23.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	23.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	23.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	23.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	23.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	23.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	23.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	23.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	22.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	22.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	22.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	22.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	22.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	22.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	22.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	22.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	22.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	22.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	21.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	21.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	21.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	21.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	21.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	21.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	21.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

288	21.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	21.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	21.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	20.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	20.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	20.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	20.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	20.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	20.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	20.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	20.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	20.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	20.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	19.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	19.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	19.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	19.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	19.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
306	19.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	19.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308	19.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309	19.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310	19.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	18.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
312	18.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
313	18.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
314	18.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315	18.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
316	18.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
317	18.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
318	18.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
319	18.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320	18.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
321	17.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322	17.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
323	17.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
324	17.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
325	17.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
326	17.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
327	17.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
328	17.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
329	17.100	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330	17.000	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
331	16.900	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
332	16.800	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
333	16.700	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
334	16.600	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
335	16.500	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
336	16.400	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337	16.300	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338	16.200	7.80	4.37	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
339	16.100	7.80	4.88	0.32	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.02	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

340	16.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
341	15.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
342	15.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
343	15.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
344	15.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345	15.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
346	15.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
347	15.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
348	15.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349	15.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350	15.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
351	14.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
352	14.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
353	14.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
354	14.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
355	14.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
356	14.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
357	14.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
358	14.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
359	14.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360	14.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
361	13.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
362	13.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
363	13.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
364	13.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
365	13.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
366	13.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367	13.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
368	13.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
369	13.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
370	13.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
371	12.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
372	12.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
373	12.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
374	12.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
375	12.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
376	12.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
377	12.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
378	12.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
379	12.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
380	12.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
381	11.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
382	11.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
383	11.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
384	11.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
385	11.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
386	11.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
387	11.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
388	11.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
389	11.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
390	11.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
391	10.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

392	10.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
393	10.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
394	10.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
395	10.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
396	10.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
397	10.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
398	10.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
399	10.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	10.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
401	9.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
402	9.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
403	9.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
404	9.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
405	9.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
406	9.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
407	9.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
408	9.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
409	9.100	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
410	9.000	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
411	8.900	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
412	8.800	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
413	8.700	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
414	8.600	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
415	8.500	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
416	8.400	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
417	8.300	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
418	8.200	7.80	4.58	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
419	8.100	7.80	5.28	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
420	8.000	7.80	5.28	0.32	0.00	0.00	0.00	0.00	0.00	1.85	1.85	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421	7.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
422	7.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
423	7.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	7.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425	7.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	7.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
427	7.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
428	7.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
429	7.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
430	7.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	6.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
432	6.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
433	6.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
434	6.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
435	6.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
436	6.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	6.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
439	6.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440	6.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441	5.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
442	5.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443	5.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

444	5.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
445	5.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
446	5.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	5.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
448	5.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
449	5.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	5.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
451	4.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
452	4.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
453	4.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
454	4.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455	4.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
456	4.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
457	4.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
458	4.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
459	4.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
460	4.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
461	3.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
462	3.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
463	3.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
464	3.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	3.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
466	3.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
467	3.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
468	3.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	3.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	3.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
471	2.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
472	2.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
473	2.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474	2.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	2.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
476	2.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
477	2.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
478	2.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
479	2.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	2.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
481	1.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
482	1.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483	1.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484	1.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	1.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
486	1.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
487	1.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
488	1.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
489	1.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
490	1.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
491	0.900	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
492	0.800	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
493	0.700	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
494	0.600	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	0.500	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

496	0.400	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
497	0.300	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
498	0.200	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499	0.100	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.000	7.80	4.91	0.32	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Pierre
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	50.00	49.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
2	49.90	49.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
3	49.80	49.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
4	49.70	49.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
5	49.60	49.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
6	49.50	49.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
7	49.40	49.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
8	49.30	49.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
9	49.20	49.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
10	49.10	49.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
11	49.00	48.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
12	48.90	48.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
13	48.80	48.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
14	48.70	48.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
15	48.60	48.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
16	48.50	48.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
17	48.40	48.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
18	48.30	48.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
19	48.20	48.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
20	48.10	48.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
21	48.00	47.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
22	47.90	47.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
23	47.80	47.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
24	47.70	47.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
25	47.60	47.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
26	47.50	47.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
27	47.40	47.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
28	47.30	47.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
29	47.20	47.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
30	47.10	47.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
31	47.00	46.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
32	46.90	46.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
33	46.80	46.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
34	46.70	46.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
35	46.60	46.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
36	46.50	46.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
37	46.40	46.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
38	46.30	46.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011

39	46.20	46.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
40	46.10	46.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
41	46.00	45.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
42	45.90	45.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
43	45.80	45.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
44	45.70	45.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
45	45.60	45.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
46	45.50	45.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
47	45.40	45.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
48	45.30	45.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
49	45.20	45.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
50	45.10	45.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
51	45.00	44.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
52	44.90	44.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
53	44.80	44.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
54	44.70	44.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
55	44.60	44.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
56	44.50	44.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
57	44.40	44.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
58	44.30	44.20	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
59	44.20	44.10	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
60	44.10	44.00	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
61	44.00	43.90	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
62	43.90	43.80	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
63	43.80	43.70	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
64	43.70	43.60	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
65	43.60	43.50	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
66	43.50	43.40	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
67	43.40	43.30	0.0174	0.011	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.011
68	43.30	43.20	0.0481	0.031	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.031
69	43.20	43.10	0.0481	0.031	0.25	6.3	158.	633.0	1.6	0.	0.000	0.000	0.031
70	43.10	43.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
71	43.00	42.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
72	42.90	42.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
73	42.80	42.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
74	42.70	42.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
75	42.60	42.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
76	42.50	42.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
77	42.40	42.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
78	42.30	42.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
79	42.20	42.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
80	42.10	42.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
81	42.00	41.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
82	41.90	41.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
83	41.80	41.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
84	41.70	41.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
85	41.60	41.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
86	41.50	41.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
87	41.40	41.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
88	41.30	41.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
89	41.20	41.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
90	41.10	41.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026

91	41.00	40.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
92	40.90	40.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
93	40.80	40.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
94	40.70	40.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
95	40.60	40.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
96	40.50	40.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
97	40.40	40.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
98	40.30	40.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
99	40.20	40.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
100	40.10	40.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
101	40.00	39.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
102	39.90	39.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
103	39.80	39.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
104	39.70	39.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
105	39.60	39.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
106	39.50	39.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
107	39.40	39.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
108	39.30	39.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
109	39.20	39.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
110	39.10	39.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
111	39.00	38.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
112	38.90	38.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
113	38.80	38.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
114	38.70	38.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
115	38.60	38.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
116	38.50	38.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
117	38.40	38.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
118	38.30	38.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
119	38.20	38.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
120	38.10	38.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
121	38.00	37.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
122	37.90	37.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
123	37.80	37.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
124	37.70	37.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
125	37.60	37.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
126	37.50	37.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
127	37.40	37.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
128	37.30	37.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
129	37.20	37.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
130	37.10	37.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
131	37.00	36.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
132	36.90	36.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
133	36.80	36.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
134	36.70	36.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
135	36.60	36.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
136	36.50	36.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
137	36.40	36.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
138	36.30	36.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
139	36.20	36.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
140	36.10	36.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
141	36.00	35.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
142	35.90	35.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026

143	35.80	35.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
144	35.70	35.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
145	35.60	35.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
146	35.50	35.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
147	35.40	35.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
148	35.30	35.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
149	35.20	35.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
150	35.10	35.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
151	35.00	34.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
152	34.90	34.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
153	34.80	34.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
154	34.70	34.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
155	34.60	34.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
156	34.50	34.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
157	34.40	34.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
158	34.30	34.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
159	34.20	34.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
160	34.10	34.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
161	34.00	33.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
162	33.90	33.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
163	33.80	33.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
164	33.70	33.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
165	33.60	33.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
166	33.50	33.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
167	33.40	33.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
168	33.30	33.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
169	33.20	33.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
170	33.10	33.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
171	33.00	32.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
172	32.90	32.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
173	32.80	32.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
174	32.70	32.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
175	32.60	32.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
176	32.50	32.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
177	32.40	32.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
178	32.30	32.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
179	32.20	32.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
180	32.10	32.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
181	32.00	31.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
182	31.90	31.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
183	31.80	31.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
184	31.70	31.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
185	31.60	31.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
186	31.50	31.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
187	31.40	31.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
188	31.30	31.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
189	31.20	31.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
190	31.10	31.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
191	31.00	30.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
192	30.90	30.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
193	30.80	30.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
194	30.70	30.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026

195	30.60	30.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
196	30.50	30.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
197	30.40	30.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
198	30.30	30.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
199	30.20	30.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
200	30.10	30.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
201	30.00	29.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
202	29.90	29.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
203	29.80	29.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
204	29.70	29.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
205	29.60	29.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
206	29.50	29.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
207	29.40	29.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
208	29.30	29.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
209	29.20	29.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
210	29.10	29.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
211	29.00	28.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
212	28.90	28.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
213	28.80	28.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
214	28.70	28.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
215	28.60	28.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
216	28.50	28.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
217	28.40	28.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
218	28.30	28.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
219	28.20	28.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
220	28.10	28.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
221	28.00	27.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
222	27.90	27.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
223	27.80	27.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
224	27.70	27.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
225	27.60	27.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
226	27.50	27.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
227	27.40	27.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
228	27.30	27.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
229	27.20	27.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
230	27.10	27.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
231	27.00	26.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
232	26.90	26.80	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
233	26.80	26.70	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
234	26.70	26.60	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
235	26.60	26.50	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
236	26.50	26.40	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
237	26.40	26.30	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
238	26.30	26.20	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
239	26.20	26.10	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
240	26.10	26.00	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
241	26.00	25.90	0.0481	0.026	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.026
242	25.90	25.80	0.0594	0.032	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.032
243	25.80	25.70	0.0594	0.032	0.28	6.5	185.	648.0	1.8	0.	0.000	0.000	0.032
244	25.70	25.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
245	25.60	25.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
246	25.50	25.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031

247	25.40	25.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
248	25.30	25.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
249	25.20	25.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
250	25.10	25.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
251	25.00	24.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
252	24.90	24.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
253	24.80	24.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
254	24.70	24.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
255	24.60	24.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
256	24.50	24.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
257	24.40	24.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
258	24.30	24.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
259	24.20	24.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
260	24.10	24.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
261	24.00	23.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
262	23.90	23.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
263	23.80	23.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
264	23.70	23.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
265	23.60	23.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
266	23.50	23.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
267	23.40	23.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
268	23.30	23.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
269	23.20	23.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
270	23.10	23.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
271	23.00	22.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
272	22.90	22.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
273	22.80	22.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
274	22.70	22.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
275	22.60	22.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
276	22.50	22.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
277	22.40	22.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
278	22.30	22.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
279	22.20	22.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
280	22.10	22.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
281	22.00	21.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
282	21.90	21.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
283	21.80	21.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
284	21.70	21.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
285	21.60	21.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
286	21.50	21.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
287	21.40	21.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
288	21.30	21.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
289	21.20	21.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
290	21.10	21.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
291	21.00	20.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
292	20.90	20.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
293	20.80	20.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
294	20.70	20.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
295	20.60	20.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
296	20.50	20.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
297	20.40	20.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
298	20.30	20.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031

299	20.20	20.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
300	20.10	20.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
301	20.00	19.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
302	19.90	19.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
303	19.80	19.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
304	19.70	19.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
305	19.60	19.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
306	19.50	19.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
307	19.40	19.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
308	19.30	19.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
309	19.20	19.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
310	19.10	19.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
311	19.00	18.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
312	18.90	18.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
313	18.80	18.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
314	18.70	18.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
315	18.60	18.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
316	18.50	18.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
317	18.40	18.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
318	18.30	18.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
319	18.20	18.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
320	18.10	18.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
321	18.00	17.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
322	17.90	17.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
323	17.80	17.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
324	17.70	17.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
325	17.60	17.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
326	17.50	17.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
327	17.40	17.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
328	17.30	17.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
329	17.20	17.10	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
330	17.10	17.00	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
331	17.00	16.90	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
332	16.90	16.80	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
333	16.80	16.70	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
334	16.70	16.60	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
335	16.60	16.50	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
336	16.50	16.40	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
337	16.40	16.30	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
338	16.30	16.20	0.0594	0.031	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.031
339	16.20	16.10	0.0769	0.040	0.29	6.5	193.	653.0	1.9	0.	0.000	0.000	0.040
340	16.10	16.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
341	16.00	15.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
342	15.90	15.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
343	15.80	15.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
344	15.70	15.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
345	15.60	15.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
346	15.50	15.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
347	15.40	15.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
348	15.30	15.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
349	15.20	15.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
350	15.10	15.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038

351	15.00	14.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
352	14.90	14.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
353	14.80	14.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
354	14.70	14.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
355	14.60	14.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
356	14.50	14.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
357	14.40	14.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
358	14.30	14.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
359	14.20	14.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
360	14.10	14.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
361	14.00	13.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
362	13.90	13.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
363	13.80	13.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
364	13.70	13.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
365	13.60	13.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
366	13.50	13.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
367	13.40	13.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
368	13.30	13.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
369	13.20	13.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
370	13.10	13.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
371	13.00	12.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
372	12.90	12.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
373	12.80	12.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
374	12.70	12.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
375	12.60	12.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
376	12.50	12.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
377	12.40	12.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
378	12.30	12.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
379	12.20	12.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
380	12.10	12.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
381	12.00	11.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
382	11.90	11.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
383	11.80	11.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
384	11.70	11.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
385	11.60	11.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
386	11.50	11.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
387	11.40	11.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
388	11.30	11.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
389	11.20	11.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
390	11.10	11.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
391	11.00	10.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
392	10.90	10.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
393	10.80	10.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
394	10.70	10.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
395	10.60	10.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
396	10.50	10.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
397	10.40	10.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
398	10.30	10.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
399	10.20	10.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
400	10.10	10.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
401	10.00	9.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
402	9.90	9.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038

403	9.80	9.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
404	9.70	9.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
405	9.60	9.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
406	9.50	9.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
407	9.40	9.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
408	9.30	9.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
409	9.20	9.10	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
410	9.10	9.00	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
411	9.00	8.90	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
412	8.90	8.80	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
413	8.80	8.70	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
414	8.70	8.60	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
415	8.60	8.50	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
416	8.50	8.40	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
417	8.40	8.30	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
418	8.30	8.20	0.0769	0.038	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.038
419	8.20	8.10	0.1031	0.051	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.051
420	8.10	8.00	0.1031	0.051	0.31	6.6	203.	661.0	2.0	0.	0.000	0.000	0.051
421	8.00	7.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
422	7.90	7.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
423	7.80	7.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
424	7.70	7.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
425	7.60	7.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
426	7.50	7.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
427	7.40	7.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
428	7.30	7.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
429	7.20	7.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
430	7.10	7.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
431	7.00	6.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
432	6.90	6.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
433	6.80	6.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
434	6.70	6.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
435	6.60	6.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
436	6.50	6.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
437	6.40	6.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
438	6.30	6.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
439	6.20	6.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
440	6.10	6.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
441	6.00	5.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
442	5.90	5.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
443	5.80	5.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
444	5.70	5.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
445	5.60	5.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
446	5.50	5.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
447	5.40	5.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
448	5.30	5.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
449	5.20	5.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
450	5.10	5.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
451	5.00	4.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
452	4.90	4.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
453	4.80	4.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
454	4.70	4.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048

455	4.60	4.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
456	4.50	4.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
457	4.40	4.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
458	4.30	4.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
459	4.20	4.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
460	4.10	4.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
461	4.00	3.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
462	3.90	3.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
463	3.80	3.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
464	3.70	3.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
465	3.60	3.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
466	3.50	3.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
467	3.40	3.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
468	3.30	3.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
469	3.20	3.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
470	3.10	3.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
471	3.00	2.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
472	2.90	2.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
473	2.80	2.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
474	2.70	2.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
475	2.60	2.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
476	2.50	2.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
477	2.40	2.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
478	2.30	2.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
479	2.20	2.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
480	2.10	2.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
481	2.00	1.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
482	1.90	1.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
483	1.80	1.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
484	1.70	1.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
485	1.60	1.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
486	1.50	1.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
487	1.40	1.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
488	1.30	1.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
489	1.20	1.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
490	1.10	1.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
491	1.00	0.90	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
492	0.90	0.80	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
493	0.80	0.70	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
494	0.70	0.60	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
495	0.60	0.50	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
496	0.50	0.40	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
497	0.40	0.30	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
498	0.30	0.20	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
499	0.20	0.10	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048
500	0.10	0.00	0.1031	0.048	0.32	6.7	216.	674.0	2.2	0.	0.000	0.000	0.048

LA-QUAL Projection for Bayou Pierre (100601)
Projection for FTN

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	0.017	10.6	20.8	0.0	1.9	0.2	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.086	51.8	72.7	0.0	11.1	0.8	0.8	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-0.103	-56.9	-12.2	0.0	-18.2	-2.0	-4.0	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	1.2	0.0	9.1					0.0
NATURAL REAERATION		622.2								
DAM REAERATION		0.0								
BACKGROUND SOD		-531.7								
BOD#1 DECAY		-82.5	-82.5							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-3.9	3.9				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-13.6				-3.2	3.2			
BACKGROUND NH3 SOURCE						0.2				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		0.0				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.103	684.6	94.7	0.0	22.1	5.2	4.0	0.0	0.0	0.0
TOTAL OUTPUTS	-0.103	-684.7	-94.7	0.0	-22.1	-5.2	-4.0	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX N

TMDL Calculations

```
100601                  Subsegment number for this TMDL
"Bayou Pierre"          Subsegment name (max 50 chars)
"pierrepj.out"          Name of LA-QUAL output file
5                       Total number of reaches in the model
100601                  Subsegment that reach 1 is in
100601                  Subsegment that reach 2 is in
100601                  Subsegment that reach 3 is in
100601                  Subsegment that reach 4 is in
100601                  Subsegment that reach 5 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
3                       Number of minor point sources
                        MINOR POINT SOURCE DISCHARGE #1:
"LA0056651"                 NPDES permit number (9 chars)
"002"                       Outfall number (3 chars)
8                           Flow (MGD)
"International Paper"       Comment for flow (max 40 chars)
25                          CBOD5 or BOD5 permit limit
0                           COD permit limit
0                           Ammonia N permit limit
""                          Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #2:
"LAG470056"                 NPDES permit number (9 chars)
"004"                       Outfall number (3 chars)
0.000360                    Flow (MGD)
"Hebert's Town & Country" Comment for flow (max 40 chars)
50                          CBOD5 or BOD5 permit limit
0                           COD permit limit
0                           Ammonia N permit limit
""                          Comment for conc. limits (max 40 chars)
                        MINOR POINT SOURCE DISCHARGE #3:
"LAG470056"                 NPDES permit number (9 chars)
"005"                       Outfall number (3 chars)
0.000360                    Flow (MGD)
"Hebert's Town & Country" Comment for flow (max 40 chars)
45                          CBOD5 or BOD5 permit limit
0                           COD permit limit
0                           Ammonia N permit limit
""                          Comment for conc. limits (max 40 chars)
No                      Nutrient TMDL needed?
1.0                     Natural ratio of total N to total P
```

TMDL CALCULATIONS FOR SUBSEGMENT: 100601 Bayou Pierre
FTN ASSOCIATES, LTD.
Program:Pr20m6c

INFO FOR INPUT FILE WITH USER SPECIFIED DATA AND OPTIONS:
File name:tmdlper.inp

INFO FOR LA-QUAL OUTPUT FILE:
File name:pierrepj.out
Date/Time:Output produced at 14:37 on 09/19/2007
LA-QUAL Version 8.11

LIST OF ALL REACHES IN LA-QUAL OUTPUT FILE:
Reach 1 (Elements 1 - 69) is in subsegment 100601 Bayou Pierre Sh
Reach 2 (Elements 70 - 243) is in subsegment 100601 Bayou Pierre u/
Reach 3 (Elements 244 - 339) is in subsegment 100601 Bayou Pierre u/
Reach 4 (Elements 340 - 420) is in subsegment 100601 Bayou Pierre u/
Reach 5 (Elements 421 - 500) is in subsegment 100601 Bayou Pierre d/

==========

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:

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	0.01745	13.79	1.27	0.13	0.03	Bayou Pierre
68	0.03066	13.79	1.27	0.13	0.03	NPS Sandy Beach Ba
242	0.01131	8.66	1.65	0.05	0.06	NPS Wallace Bayou
339	0.01748	7.33	1.63	0.11	0.17	NPS Pascagoula Can
419	0.02622	7.33	1.63	0.11	0.17	NPS Prairie River

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	20.79	1.91	0.20	0.05
68	36.53	3.36	0.34	0.08
242	8.46	1.61	0.05	0.06

339	11.07	2.46	0.17	0.26
419	16.61	3.69	0.25	0.39
Subsegment totals:	73.40	13.03	1.01	0.84

==========

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	1.20	0.10
2	0.00	4.20
3	0.00	1.60
4	0.00	1.60
5	0.00	1.60
Subsegment totals	1.20	9.10

==========

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	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	2	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	3	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	4	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	5	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	6	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	7	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	8	28.20	0.0	0.840	0.00	1.408	0.00	0.00

1	9	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	10	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	11	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	12	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	13	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	14	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	15	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	16	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	17	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	18	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	19	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	20	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	21	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	22	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	23	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	24	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	25	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	26	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	27	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	28	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	29	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	30	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	31	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	32	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	33	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	34	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	35	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	36	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	37	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	38	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	39	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	40	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	41	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	42	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	43	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	44	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	45	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	46	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	47	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	48	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	49	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	50	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	51	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	52	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	53	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	54	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	55	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	56	28.20	0.0	0.840	0.00	1.408	0.00	0.00

1	57	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	58	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	59	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	60	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	61	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	62	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	63	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	64	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	65	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	66	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	67	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	68	28.20	0.0	0.840	0.00	1.408	0.00	0.00
1	69	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	70	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	71	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	72	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	73	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	74	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	75	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	76	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	77	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	78	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	79	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	80	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	81	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	82	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	83	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	84	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	85	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	86	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	87	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	88	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	89	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	90	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	91	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	92	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	93	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	94	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	95	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	96	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	97	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	98	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	99	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	100	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	101	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	102	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	103	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	104	28.20	0.0	0.840	0.00	1.408	0.00	0.00

2	105	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	106	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	107	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	108	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	109	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	110	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	111	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	112	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	113	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	114	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	115	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	116	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	117	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	118	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	119	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	120	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	121	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	122	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	123	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	124	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	125	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	126	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	127	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	128	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	129	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	130	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	131	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	132	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	133	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	134	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	135	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	136	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	137	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	138	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	139	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	140	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	141	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	142	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	143	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	144	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	145	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	146	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	147	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	148	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	149	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	150	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	151	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	152	28.20	0.0	0.840	0.00	1.408	0.00	0.00

2	153	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	154	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	155	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	156	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	157	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	158	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	159	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	160	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	161	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	162	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	163	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	164	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	165	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	166	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	167	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	168	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	169	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	170	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	171	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	172	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	173	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	174	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	175	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	176	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	177	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	178	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	179	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	180	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	181	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	182	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	183	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	184	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	185	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	186	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	187	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	188	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	189	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	190	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	191	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	192	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	193	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	194	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	195	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	196	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	197	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	198	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	199	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	200	28.20	0.0	0.840	0.00	1.408	0.00	0.00

2	201	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	202	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	203	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	204	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	205	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	206	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	207	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	208	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	209	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	210	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	211	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	212	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	213	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	214	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	215	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	216	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	217	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	218	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	219	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	220	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	221	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	222	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	223	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	224	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	225	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	226	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	227	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	228	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	229	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	230	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	231	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	232	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	233	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	234	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	235	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	236	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	237	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	238	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	239	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	240	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	241	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	242	28.20	0.0	0.840	0.00	1.408	0.00	0.00
2	243	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	244	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	245	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	246	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	247	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	248	28.20	0.0	0.840	0.00	1.408	0.00	0.00

3	249	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	250	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	251	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	252	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	253	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	254	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	255	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	256	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	257	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	258	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	259	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	260	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	261	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	262	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	263	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	264	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	265	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	266	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	267	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	268	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	269	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	270	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	271	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	272	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	273	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	274	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	275	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	276	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	277	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	278	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	279	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	280	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	281	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	282	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	283	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	284	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	285	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	286	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	287	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	288	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	289	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	290	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	291	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	292	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	293	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	294	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	295	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	296	28.20	0.0	0.840	0.00	1.408	0.00	0.00

3	297	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	298	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	299	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	300	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	301	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	302	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	303	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	304	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	305	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	306	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	307	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	308	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	309	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	310	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	311	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	312	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	313	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	314	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	315	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	316	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	317	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	318	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	319	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	320	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	321	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	322	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	323	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	324	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	325	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	326	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	327	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	328	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	329	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	330	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	331	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	332	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	333	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	334	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	335	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	336	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	337	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	338	28.20	0.0	0.840	0.00	1.408	0.00	0.00
3	339	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	340	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	341	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	342	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	343	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	344	28.20	0.0	0.840	0.00	1.408	0.00	0.00

4	345	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	346	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	347	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	348	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	349	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	350	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	351	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	352	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	353	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	354	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	355	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	356	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	357	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	358	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	359	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	360	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	361	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	362	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	363	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	364	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	365	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	366	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	367	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	368	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	369	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	370	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	371	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	372	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	373	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	374	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	375	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	376	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	377	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	378	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	379	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	380	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	381	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	382	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	383	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	384	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	385	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	386	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	387	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	388	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	389	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	390	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	391	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	392	28.20	0.0	0.840	0.00	1.408	0.00	0.00

4	393	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	394	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	395	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	396	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	397	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	398	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	399	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	400	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	401	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	402	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	403	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	404	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	405	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	406	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	407	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	408	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	409	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	410	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	411	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	412	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	413	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	414	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	415	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	416	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	417	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	418	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	419	28.20	0.0	0.840	0.00	1.408	0.00	0.00
4	420	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	421	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	422	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	423	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	424	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	425	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	426	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	427	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	428	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	429	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	430	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	431	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	432	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	433	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	434	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	435	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	436	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	437	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	438	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	439	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	440	28.20	0.0	0.840	0.00	1.408	0.00	0.00

5	441	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	442	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	443	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	444	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	445	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	446	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	447	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	448	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	449	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	450	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	451	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	452	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	453	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	454	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	455	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	456	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	457	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	458	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	459	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	460	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	461	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	462	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	463	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	464	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	465	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	466	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	467	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	468	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	469	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	470	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	471	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	472	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	473	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	474	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	475	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	476	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	477	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	478	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	479	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	480	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	481	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	482	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	483	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	484	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	485	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	486	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	487	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	488	28.20	0.0	0.840	0.00	1.408	0.00	0.00

5	489	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	490	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	491	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	492	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	493	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	494	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	495	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	496	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	497	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	498	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	499	28.20	0.0	0.840	0.00	1.408	0.00	0.00
5	500	28.20	0.0	0.840	0.00	1.408	0.00	0.00
						Subsegment totals:	0.00	0.00

==========

CALCULATIONS FOR LOADS FROM POINT SOURCE DISCHARGES EXPLICITLY MODELED:

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:

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 discharge
68	0.00000	69.000	5.000	10.000	0.030	Shreveport Twnhse

Calculated values:

Element number	CBODu load (kg/day)	Organic N load (kg/day)	Ammonia N load (kg/day)	NO2+NO3 N load (kg/day)
68	0.00	0.00	0.00	0.00
Subsegment total	0.00	0.00	0.00	0.00

==========

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
LA0056651	002	8.000	1.250	10.000	International Paper
LAG470056	004	0.000	1.250	0.000	Hebert's Town & Country
LAG470056	005	0.000	1.250	0.000	Hebert's Town & Country

User specified permit limits:

NPDES permit number	Outfall number	CBOD5 (mg/L)	COD (mg/L)	Ammonia (mg/L)	Comments
LA0056651	002	25.0	0.0	0.0	
LAG470056	004	50.0	0.0	0.0	
LAG470056	005	45.0	0.0	0.0	

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
LA0056651	002	57.50	0.00	0.00	10.00	
LAG470056	004	115.00	0.00	0.00	10.00	
LAG470056	005	103.50	0.00	0.00	10.00	

Calculated loads:

NPDES permit	Outfall	CBODu	Organic N	AmmoniaN	NO2+NO3 N

number	number	(kg/day)	(kg/day)	(kg.day)	(kg.day)	Comments
LA0056651	002	2176.38	0.00	0.00	378.50	
LAG470056	004	0.20	0.00	0.00	0.02	
LAG470056	005	0.18	0.00	0.00	0.02	
Subsegment total		2176.75	0.00	0.00	378.53	

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	73.40	13.03	1.01	0.84
Mass LOads (data type 19)	N/A	1.20	9.10	N/A	N/A
SOD and Benthic	0.00	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	73.40	56.42	4.37	134.19
Mass LOads (data type 19)	N/A	1.20	39.40	N/A	40.60
SOD and Benthic	0.00	N/A	N/A	0.00	0.00
Total for all NPS loads	0.00	74.60	95.82	4.37	174.79
NPS future growth (10.0%)	0.00	7.46	9.58	0.44	17.48
NPS margin of safety (10.0%)	0.00	7.46	9.58	0.44	17.48
NPS load allocation (80.0%)	0.00	59.68	76.66	3.49	139.83

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)
Modeled load for: Shreveport Twnhse	0.00	0.00	0.00	0.00
Calculated load for minor point source	2176.75	0.00	0.00	378.53

Calculated loads of oxygen demand

		Oygen demand loads:			Total Oxygen demand
		CBODu (kg/day)	Organic N (kg/day)	Ammonia N (kg/day)	(kg/day)
Modeled load for: Shreveport Twnhse		0.00	0.00	0.00	0.00
Calculated load for minor point source		2176.75	0.00	0.00	2176.75
Total for all point source loads		2176.75	0.00	0.00	2176.75
MOS for all point Sources	(10.0%)	217.67	0.00	0.00	217.67
FG for all point Sources	(10.0%)	217.67	0.00	0.00	217.67
WLA for: Shreveport Twnhse	(80.0%)	0.00	0.00	0.00	0.00
WLA for minor point sources	(80.0%)	1741.40	0.00	0.00	1741.40

```
        program pr20m6c
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 data (needed for surface area for the SOD) is found in the final report
C     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***********************************Search program (part 1)****************************************
C This whole program is written by Richard R. Bennett on 9/19/07 for LA-QUAL version 8.0
C Every variable is used in this program

       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*40 target4


C**********All arrays are entered in the order in which they occurr in the program
C**************Input REAL arrays

      integer total_elem
       REAL C1B_SOD(1:999),C2_NH3SR(1:999),incr_flow(1:999),
     &incr2_CBODu_con(1:999),incr2_Org_N_con(1:999), incr2_Amm_N_con(1:
     &100),incr2_Nitrate_con(1:999), NP_BOD(1:999),NP_ORG(1:999),

     & HDWT1_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(1:10
     &0), HDWT2_NO3_con(1:999)

C****************Character Search Strings
      target = 'CNTROL04'
      target2= 'THETA        BENTHAL'
      target3= '$$$ DATA TYPE 8'
      target3b='$$$ DATA TYPE 11'
      target4= 'BIOLOGICAL AND PHYSICAL COEFFICIENTS'
      target5b= '$$$ DATA TYPE 16'
      target5c= '$$$ DATA TYPE 17'
      target6= '$$$ DATA TYPE 19'
      target7= '$$$ DATA TYPE 20'
      Target8= '$$$ DATA TYPE 21'
      Target9= '$$$ DATA TYPE 24'
      target10= '$$$ DATA TYPE 25'

C****************Array counterrs
```

```
      num=0
      num_incr=0
      num_hdwt=0
      num_wstld=0
      nps_num_wstld=0
      ps_num_wstld=0
      a=0
      b1=0
      b2=0
      b3=0
      b4=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**********Data T12,(read COEF-1 Bckgrd SOD and NH3SR)
      else IF (line (2:37) .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(72:77),'(F6.0)') C1B_SOD(elem)
               READ(Stream_id(98:103),'(F6.0)') C2_NH3SR(elem)
c               write(13,*)elem,C1B_Sod(elem),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,'(A132)')stream_id
117         if (stream_id(1:6) .EQ. 'INCR-1') then
               num_incr=num_incr+1
               b1=b1+1
               read(stream_id(16:24),'(F9.0)') incr_flow(b1)
            go to 117
            end if

C**********Data Tyoe (incremental flow part 2)
       else if (line(1:16) .EQ. target5c) then
            read(10,*)
            read(10,*)
            read(10,'(A132)')stream_id
118         if (stream_id(1:6) .EQ. 'INCR-2') then
               b2=b2+1
               b3=b3+1
               b4=b4+1
               b5=b5+1
               read(stream_id(25:33),'(F9.0)') incr2_CBODu_con(b2)
               read(stream_id(34:42),'(F9.0)') incr2_Org_N_con(b3)
               read(stream_id(43:51),'(F9.0)') incr2_Amm_N_con(b4)
               read(stream_id(52:60),'(F9.0)') incr2_Nitrate_con(b5)
            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*************SPECIAL 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(84:92),'(F10.0)')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
     &_temp_cor(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)=C1B_SOD(I)
               elem_temp(J)=temp(I)
C               write(13,*)I,j,elem_sod(j)
200            continue
201   continue



      do 202 I=1,total_elem
               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) = 10

               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:Pr20m6c'
      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
     &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,*)'           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)
      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)
      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)
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```
      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 O

Ammonia Toxicity Calculations

AMMONIA TOXICITY CALCULATIONS FOR OUACHITA RIVER (SUBSEGMENT 080201)

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 Boggy Bayou 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	7.2	28.2	2.3	0.13	No
2	7.2	28.2	2.3	0.13	No
3	7.2	28.2	2.3	0.13	No
4	7.2	28.2	2.3	0.13	No
5	7.2	28.2	2.3	0.13	No
6	7.2	28.2	2.3	0.13	No
7	7.2	28.2	2.3	0.14	No
8	7.2	28.2	2.3	0.14	No
9	7.2	28.2	2.3	0.14	No
10	7.2	28.2	2.3	0.14	No
11	7.2	28.2	2.3	0.14	No
12	7.2	28.2	2.3	0.14	No
13	7.2	28.2	2.3	0.14	No
14	7.2	28.2	2.3	0.14	No
15	7.2	28.2	2.3	0.14	No
16	7.2	28.2	2.3	0.14	No
17	7.2	28.2	2.3	0.14	No
18	7.2	28.2	2.3	0.14	No
19	7.2	28.2	2.3	0.14	No
20	7.2	28.2	2.3	0.14	No
21	7.2	28.2	2.3	0.14	No
22	7.2	28.2	2.3	0.14	No
23	7.2	28.2	2.3	0.15	No
24	7.2	28.2	2.3	0.15	No
25	7.2	28.2	2.3	0.15	No
26	7.2	28.2	2.3	0.15	No
27	7.2	28.2	2.3	0.15	No
28	7.2	28.2	2.3	0.15	No
29	7.2	28.2	2.3	0.15	No
30	7.2	28.2	2.3	0.15	No
31	7.2	28.2	2.3	0.15	No
32	7.2	28.2	2.3	0.15	No
33	7.2	28.2	2.3	0.15	No
34	7.2	28.2	2.3	0.15	No
35	7.2	28.2	2.3	0.15	No
36	7.2	28.2	2.3	0.15	No
37	7.2	28.2	2.3	0.15	No
38	7.2	28.2	2.3	0.15	No
39	7.2	28.2	2.3	0.15	No
40	7.2	28.2	2.3	0.15	No
41	7.2	28.2	2.3	0.15	No
42	7.2	28.2	2.3	0.15	No
43	7.2	28.2	2.3	0.15	No
44	7.2	28.2	2.3	0.15	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	7.2	28.2	2.3	0.15	No
46	7.2	28.2	2.3	0.15	No
47	7.2	28.2	2.3	0.15	No
48	7.2	28.2	2.3	0.15	No
49	7.2	28.2	2.3	0.15	No
50	7.2	28.2	2.3	0.15	No
51	7.2	28.2	2.3	0.15	No
52	7.2	28.2	2.3	0.16	No
53	7.2	28.2	2.3	0.16	No
54	7.2	28.2	2.3	0.16	No
55	7.2	28.2	2.3	0.16	No
56	7.2	28.2	2.3	0.16	No
57	7.2	28.2	2.3	0.16	No
58	7.2	28.2	2.3	0.16	No
59	7.2	28.2	2.3	0.16	No
60	7.2	28.2	2.3	0.16	No
61	7.2	28.2	2.3	0.16	No
62	7.2	28.2	2.3	0.16	No
63	7.2	28.2	2.3	0.16	No
64	7.2	28.2	2.3	0.16	No
65	7.2	28.2	2.3	0.16	No
66	7.2	28.2	2.3	0.16	No
67	7.2	28.2	2.3	0.16	No
68	7.2	28.2	2.3	0.16	No
69	7.2	28.2	2.3	0.16	No
70	7.2	28.2	2.3	0.16	No
71	7.2	28.2	2.3	0.16	No
72	7.2	28.2	2.3	0.16	No
73	7.2	28.2	2.3	0.16	No
74	7.2	28.2	2.3	0.16	No
75	7.2	28.2	2.3	0.16	No
76	7.2	28.2	2.3	0.16	No
77	7.2	28.2	2.3	0.17	No
78	7.2	28.2	2.3	0.17	No
79	7.2	28.2	2.3	0.17	No
80	7.2	28.2	2.3	0.17	No
81	7.2	28.2	2.3	0.17	No
82	7.2	28.2	2.3	0.17	No
83	7.2	28.2	2.3	0.17	No
84	7.2	28.2	2.3	0.17	No
85	7.2	28.2	2.3	0.17	No
86	7.2	28.2	2.3	0.18	No
87	7.2	28.2	2.3	0.18	No
88	7.2	28.2	2.3	0.18	No
89	7.2	28.2	2.3	0.18	No
90	7.2	28.2	2.3	0.18	No
91	7.2	28.2	2.3	0.18	No
92	7.2	28.2	2.3	0.18	No
93	7.2	28.2	2.3	0.18	No
94	7.2	28.2	2.3	0.19	No
95	7.2	28.2	2.3	0.19	No
96	7.2	28.2	2.3	0.19	No
97	7.2	28.2	2.3	0.19	No
98	7.2	28.2	2.3	0.19	No
99	7.2	28.2	2.3	0.19	No
100	7.2	28.2	2.3	0.19	No
101	7.2	28.2	2.3	0.19	No
102	7.2	28.2	2.3	0.20	No
103	7.2	28.2	2.3	0.20	No
104	7.2	28.2	2.3	0.20	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	7.2	28.2	2.3	0.20	No
106	7.2	28.2	2.3	0.20	No
107	7.2	28.2	2.3	0.20	No
108	7.2	28.2	2.3	0.20	No
109	7.2	28.2	2.3	0.21	No
110	7.2	28.2	2.3	0.21	No
111	7.2	28.2	2.3	0.21	No
112	7.2	28.2	2.3	0.21	No
113	7.2	28.2	2.3	0.21	No
114	7.2	28.2	2.3	0.21	No
115	7.2	28.2	2.3	0.21	No
116	7.2	28.2	2.3	0.21	No
117	7.2	28.2	2.3	0.22	No
118	7.2	28.2	2.3	0.22	No
119	7.2	28.2	2.3	0.22	No
120	7.2	28.2	2.3	0.22	No
121	7.2	28.2	2.3	0.22	No
122	7.2	28.2	2.3	0.22	No
123	7.2	28.2	2.3	0.22	No
124	7.2	28.2	2.3	0.23	No
125	7.2	28.2	2.3	0.23	No
126	7.2	28.2	2.3	0.23	No
127	7.2	28.2	2.3	0.23	No
128	7.2	28.2	2.3	0.23	No
129	7.2	28.2	2.3	0.23	No
130	7.2	28.2	2.3	0.23	No
131	7.2	28.2	2.3	0.24	No
132	7.2	28.2	2.3	0.24	No
133	7.2	28.2	2.3	0.24	No
134	7.2	28.2	2.3	0.24	No
135	7.2	28.2	2.3	0.24	No
136	7.2	28.2	2.3	0.24	No
137	7.2	28.2	2.3	0.24	No
138	7.2	28.2	2.3	0.25	No
139	7.2	28.2	2.3	0.25	No
140	7.2	28.2	2.3	0.25	No
141	7.2	28.2	2.3	0.25	No
142	7.2	28.2	2.3	0.25	No
143	7.2	28.2	2.3	0.25	No
144	7.2	28.2	2.3	0.25	No
145	7.2	28.2	2.3	0.26	No
146	7.2	28.2	2.3	0.26	No
147	7.2	28.2	2.3	0.26	No
148	7.2	28.2	2.3	0.26	No
149	7.2	28.2	2.3	0.26	No
150	7.2	28.2	2.3	0.26	No
151	7.2	28.2	2.3	0.26	No
152	7.2	28.2	2.3	0.27	No
153	7.2	28.2	2.3	0.27	No
154	7.2	28.2	2.3	0.27	No
155	7.2	28.2	2.3	0.27	No
156	7.2	28.2	2.3	0.27	No
157	7.2	28.2	2.3	0.27	No
158	7.2	28.2	2.3	0.27	No
159	7.2	28.2	2.3	0.28	No
160	7.2	28.2	2.3	0.28	No
161	7.2	28.2	2.3	0.28	No
162	7.2	28.2	2.3	0.28	No
163	7.2	28.2	2.3	0.28	No
164	7.2	28.2	2.3	0.28	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	7.2	28.2	2.3	0.28	No
166	7.2	28.2	2.3	0.29	No
167	7.2	28.2	2.3	0.29	No
168	7.2	28.2	2.3	0.29	No
169	7.2	28.2	2.3	0.29	No
170	7.2	28.2	2.3	0.29	No
171	7.2	28.2	2.3	0.29	No
172	7.2	28.2	2.3	0.29	No
173	7.2	28.2	2.3	0.30	No
174	7.2	28.2	2.3	0.30	No
175	7.2	28.2	2.3	0.30	No
176	7.2	28.2	2.3	0.30	No
177	7.2	28.2	2.3	0.30	No
178	7.2	28.2	2.3	0.30	No
179	7.2	28.2	2.3	0.30	No
180	7.2	28.2	2.3	0.31	No
181	7.2	28.2	2.3	0.31	No
182	7.2	28.2	2.3	0.31	No
183	7.2	28.2	2.3	0.31	No
184	7.2	28.2	2.3	0.31	No
185	7.2	28.2	2.3	0.31	No
186	7.2	28.2	2.3	0.31	No
187	7.2	28.2	2.3	0.32	No
188	7.2	28.2	2.3	0.32	No
189	7.2	28.2	2.3	0.32	No
190	7.2	28.2	2.3	0.32	No
191	7.2	28.2	2.3	0.32	No
192	7.2	28.2	2.3	0.32	No
193	7.2	28.2	2.3	0.32	No
194	7.2	28.2	2.3	0.33	No
195	7.2	28.2	2.3	0.33	No
196	7.2	28.2	2.3	0.33	No
197	7.2	28.2	2.3	0.33	No
198	7.2	28.2	2.3	0.33	No
199	7.2	28.2	2.3	0.33	No
200	7.2	28.2	2.3	0.33	No
201	7.2	28.2	2.3	0.34	No
202	7.2	28.2	2.3	0.34	No
203	7.2	28.2	2.3	0.34	No
204	7.2	28.2	2.3	0.34	No
205	7.2	28.2	2.3	0.34	No
206	7.2	28.2	2.3	0.34	No
207	7.2	28.2	2.3	0.34	No
208	7.2	28.2	2.3	0.35	No
209	7.2	28.2	2.3	0.35	No
210	7.2	28.2	2.3	0.35	No
211	7.2	28.2	2.3	0.35	No
212	7.2	28.2	2.3	0.35	No
213	7.2	28.2	2.3	0.35	No
214	7.2	28.2	2.3	0.35	No
215	7.2	28.2	2.3	0.35	No
216	7.2	28.2	2.3	0.36	No
217	7.2	28.2	2.3	0.36	No
218	7.2	28.2	2.3	0.36	No
219	7.2	28.2	2.3	0.36	No
220	7.2	28.2	2.3	0.36	No
221	7.2	28.2	2.3	0.36	No
222	7.2	28.2	2.3	0.36	No
223	7.2	28.2	2.3	0.37	No
224	7.2	28.2	2.3	0.37	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 ?
225	7.2	28.2	2.3	0.37	No
226	7.2	28.2	2.3	0.37	No
227	7.2	28.2	2.3	0.37	No
228	7.2	28.2	2.3	0.37	No
229	7.2	28.2	2.3	0.37	No
230	7.2	28.2	2.3	0.37	No
231	7.2	28.2	2.3	0.38	No
232	7.2	28.2	2.3	0.38	No
233	7.2	28.2	2.3	0.38	No
234	7.2	28.2	2.3	0.38	No
235	7.2	28.2	2.3	0.38	No
236	7.2	28.2	2.3	0.38	No
237	7.2	28.2	2.3	0.38	No
238	7.2	28.2	2.3	0.38	No
239	7.2	28.2	2.3	0.39	No
240	7.2	28.2	2.3	0.39	No
241	7.2	28.2	2.3	0.39	No
242	7.2	28.2	2.3	0.39	No
243	7.2	28.2	2.3	0.39	No
244	7.2	28.2	2.3	0.39	No
245	7.2	28.2	2.3	0.39	No
246	7.2	28.2	2.3	0.39	No
247	7.2	28.2	2.3	0.39	No
248	7.2	28.2	2.3	0.39	No
249	7.2	28.2	2.3	0.39	No
250	7.2	28.2	2.3	0.39	No
251	7.2	28.2	2.3	0.40	No
252	7.2	28.2	2.3	0.40	No
253	7.2	28.2	2.3	0.40	No
254	7.2	28.2	2.3	0.40	No
255	7.2	28.2	2.3	0.40	No
256	7.2	28.2	2.3	0.40	No
257	7.2	28.2	2.3	0.40	No
258	7.2	28.2	2.3	0.40	No
259	7.2	28.2	2.3	0.40	No
260	7.2	28.2	2.3	0.40	No
261	7.2	28.2	2.3	0.40	No
262	7.2	28.2	2.3	0.40	No
263	7.2	28.2	2.3	0.40	No
264	7.2	28.2	2.3	0.40	No
265	7.2	28.2	2.3	0.40	No
266	7.2	28.2	2.3	0.40	No
267	7.2	28.2	2.3	0.40	No
268	7.2	28.2	2.3	0.40	No
269	7.2	28.2	2.3	0.40	No
270	7.2	28.2	2.3	0.40	No
271	7.2	28.2	2.3	0.40	No
272	7.2	28.2	2.3	0.41	No
273	7.2	28.2	2.3	0.41	No
274	7.2	28.2	2.3	0.41	No
275	7.2	28.2	2.3	0.41	No
276	7.2	28.2	2.3	0.41	No
277	7.2	28.2	2.3	0.41	No
278	7.2	28.2	2.3	0.41	No
279	7.2	28.2	2.3	0.41	No
280	7.2	28.2	2.3	0.41	No
281	7.2	28.2	2.3	0.41	No
282	7.2	28.2	2.3	0.41	No
283	7.2	28.2	2.3	0.41	No
284	7.2	28.2	2.3	0.41	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	7.2	28.2	2.3	0.41	No
286	7.2	28.2	2.3	0.41	No
287	7.2	28.2	2.3	0.41	No
288	7.2	28.2	2.3	0.41	No
289	7.2	28.2	2.3	0.41	No
290	7.2	28.2	2.3	0.41	No
291	7.2	28.2	2.3	0.41	No
292	7.2	28.2	2.3	0.41	No
293	7.2	28.2	2.3	0.41	No
294	7.2	28.2	2.3	0.41	No
295	7.2	28.2	2.3	0.41	No
296	7.2	28.2	2.3	0.41	No
297	7.2	28.2	2.3	0.42	No
298	7.2	28.2	2.3	0.42	No
299	7.2	28.2	2.3	0.42	No
300	7.2	28.2	2.3	0.42	No
301	7.2	28.2	2.3	0.42	No
302	7.2	28.2	2.3	0.42	No
303	7.2	28.2	2.3	0.42	No
304	7.2	28.2	2.3	0.42	No
305	7.2	28.2	2.3	0.42	No
306	7.2	28.2	2.3	0.42	No
307	7.2	28.2	2.3	0.42	No
308	7.2	28.2	2.3	0.42	No
309	7.2	28.2	2.3	0.42	No
310	7.2	28.2	2.3	0.42	No
311	7.2	28.2	2.3	0.42	No
312	7.2	28.2	2.3	0.42	No
313	7.2	28.2	2.3	0.42	No
314	7.2	28.2	2.3	0.42	No
315	7.2	28.2	2.3	0.42	No
316	7.2	28.2	2.3	0.42	No
317	7.2	28.2	2.3	0.42	No
318	7.2	28.2	2.3	0.42	No
319	7.2	28.2	2.3	0.42	No
320	7.2	28.2	2.3	0.42	No
321	7.2	28.2	2.3	0.42	No
322	7.2	28.2	2.3	0.42	No
323	7.2	28.2	2.3	0.42	No
324	7.2	28.2	2.3	0.42	No
325	7.2	28.2	2.3	0.43	No
326	7.2	28.2	2.3	0.43	No
327	7.2	28.2	2.3	0.43	No
328	7.2	28.2	2.3	0.43	No
329	7.2	28.2	2.3	0.43	No
330	7.2	28.2	2.3	0.43	No
331	7.2	28.2	2.3	0.43	No
332	7.2	28.2	2.3	0.43	No
333	7.2	28.2	2.3	0.43	No
334	7.2	28.2	2.3	0.43	No
335	7.2	28.2	2.3	0.43	No
336	7.2	28.2	2.3	0.43	No
337	7.2	28.2	2.3	0.43	No
338	7.2	28.2	2.3	0.43	No
339	7.2	28.2	2.3	0.43	No
340	7.2	28.2	2.3	0.43	No
341	7.2	28.2	2.3	0.43	No
342	7.2	28.2	2.3	0.43	No
343	7.2	28.2	2.3	0.43	No
344	7.2	28.2	2.3	0.43	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	7.2	28.2	2.3	0.43	No
346	7.2	28.2	2.3	0.43	No
347	7.2	28.2	2.3	0.43	No
348	7.2	28.2	2.3	0.43	No
349	7.2	28.2	2.3	0.43	No
350	7.2	28.2	2.3	0.43	No
351	7.2	28.2	2.3	0.43	No
352	7.2	28.2	2.3	0.43	No
353	7.2	28.2	2.3	0.44	No
354	7.2	28.2	2.3	0.44	No
355	7.2	28.2	2.3	0.44	No
356	7.2	28.2	2.3	0.44	No
357	7.2	28.2	2.3	0.44	No
358	7.2	28.2	2.3	0.44	No
359	7.2	28.2	2.3	0.44	No
360	7.2	28.2	2.3	0.44	No
361	7.2	28.2	2.3	0.44	No
362	7.2	28.2	2.3	0.44	No
363	7.2	28.2	2.3	0.44	No
364	7.2	28.2	2.3	0.44	No
365	7.2	28.2	2.3	0.44	No
366	7.2	28.2	2.3	0.44	No
367	7.2	28.2	2.3	0.44	No
368	7.2	28.2	2.3	0.44	No
369	7.2	28.2	2.3	0.44	No
370	7.2	28.2	2.3	0.44	No
371	7.2	28.2	2.3	0.44	No
372	7.2	28.2	2.3	0.44	No
373	7.2	28.2	2.3	0.44	No
374	7.2	28.2	2.3	0.44	No
375	7.2	28.2	2.3	0.44	No
376	7.2	28.2	2.3	0.45	No
377	7.2	28.2	2.3	0.45	No
378	7.2	28.2	2.3	0.45	No
379	7.2	28.2	2.3	0.45	No
380	7.2	28.2	2.3	0.45	No
381	7.2	28.2	2.3	0.45	No
382	7.2	28.2	2.3	0.45	No
383	7.2	28.2	2.3	0.45	No
384	7.2	28.2	2.3	0.45	No
385	7.2	28.2	2.3	0.45	No
386	7.2	28.2	2.3	0.45	No
387	7.2	28.2	2.3	0.45	No
388	7.2	28.2	2.3	0.45	No
389	7.2	28.2	2.3	0.45	No
390	7.2	28.2	2.3	0.45	No
391	7.2	28.2	2.3	0.45	No
392	7.2	28.2	2.3	0.45	No
393	7.2	28.2	2.3	0.45	No
394	7.2	28.2	2.3	0.45	No
395	7.2	28.2	2.3	0.45	No
396	7.2	28.2	2.3	0.45	No
397	7.2	28.2	2.3	0.45	No
398	7.2	28.2	2.3	0.45	No
399	7.2	28.2	2.3	0.45	No
400	7.2	28.2	2.3	0.46	No
401	7.2	28.2	2.3	0.46	No
402	7.2	28.2	2.3	0.46	No
403	7.2	28.2	2.3	0.46	No
404	7.2	28.2	2.3	0.46	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	7.2	28.2	2.3	0.46	No
406	7.2	28.2	2.3	0.46	No
407	7.2	28.2	2.3	0.46	No
408	7.2	28.2	2.3	0.46	No
409	7.2	28.2	2.3	0.46	No
410	7.2	28.2	2.3	0.46	No
411	7.2	28.2	2.3	0.46	No
412	7.2	28.2	2.3	0.46	No
413	7.2	28.2	2.3	0.46	No
414	7.2	28.2	2.3	0.46	No
415	7.2	28.2	2.3	0.46	No
416	7.2	28.2	2.3	0.46	No
417	7.2	28.2	2.3	0.46	No
418	7.2	28.2	2.3	0.46	No
419	7.2	28.2	2.3	0.46	No
420	7.2	28.2	2.3	0.46	No
421	7.2	28.2	2.3	0.46	No
422	7.2	28.2	2.3	0.46	No
423	7.2	28.2	2.3	0.46	No
424	7.2	28.2	2.3	0.47	No
425	7.2	28.2	2.3	0.47	No
426	7.2	28.2	2.3	0.47	No
427	7.2	28.2	2.3	0.47	No
428	7.2	28.2	2.3	0.47	No
429	7.2	28.2	2.3	0.47	No
430	7.2	28.2	2.3	0.47	No
431	7.2	28.2	2.3	0.47	No
432	7.2	28.2	2.3	0.47	No
433	7.2	28.2	2.3	0.47	No
434	7.2	28.2	2.3	0.47	No
435	7.2	28.2	2.3	0.47	No
436	7.2	28.2	2.3	0.47	No
437	7.2	28.2	2.3	0.47	No
438	7.2	28.2	2.3	0.47	No
439	7.2	28.2	2.3	0.47	No
440	7.2	28.2	2.3	0.47	No
441	7.2	28.2	2.3	0.47	No
442	7.2	28.2	2.3	0.47	No
443	7.2	28.2	2.3	0.47	No
444	7.2	28.2	2.3	0.47	No
445	7.2	28.2	2.3	0.47	No
446	7.2	28.2	2.3	0.47	No
447	7.2	28.2	2.3	0.48	No
448	7.2	28.2	2.3	0.48	No
449	7.2	28.2	2.3	0.48	No
450	7.2	28.2	2.3	0.48	No
451	7.2	28.2	2.3	0.48	No
452	7.2	28.2	2.3	0.48	No
453	7.2	28.2	2.3	0.48	No
454	7.2	28.2	2.3	0.48	No
455	7.2	28.2	2.3	0.48	No
456	7.2	28.2	2.3	0.48	No
457	7.2	28.2	2.3	0.48	No
458	7.2	28.2	2.3	0.48	No
459	7.2	28.2	2.3	0.48	No
460	7.2	28.2	2.3	0.48	No
461	7.2	28.2	2.3	0.48	No
462	7.2	28.2	2.3	0.48	No
463	7.2	28.2	2.3	0.48	No
464	7.2	28.2	2.3	0.48	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 ?
465	7.2	28.2	2.3	0.48	No
466	7.2	28.2	2.3	0.48	No
467	7.2	28.2	2.3	0.48	No
468	7.2	28.2	2.3	0.48	No
469	7.2	28.2	2.3	0.48	No
470	7.2	28.2	2.3	0.48	No
471	7.2	28.2	2.3	0.48	No
472	7.2	28.2	2.3	0.48	No
473	7.2	28.2	2.3	0.48	No
474	7.2	28.2	2.3	0.49	No
475	7.2	28.2	2.3	0.49	No
476	7.2	28.2	2.3	0.49	No
477	7.2	28.2	2.3	0.49	No
478	7.2	28.2	2.3	0.49	No
479	7.2	28.2	2.3	0.49	No
480	7.2	28.2	2.3	0.49	No
481	7.2	28.2	2.3	0.49	No
482	7.2	28.2	2.3	0.49	No
483	7.2	28.2	2.3	0.49	No
484	7.2	28.2	2.3	0.49	No
485	7.2	28.2	2.3	0.49	No
486	7.2	28.2	2.3	0.49	No
487	7.2	28.2	2.3	0.49	No
488	7.2	28.2	2.3	0.49	No
489	7.2	28.2	2.3	0.49	No
490	7.2	28.2	2.3	0.49	No
491	7.2	28.2	2.3	0.49	No
492	7.2	28.2	2.3	0.49	No
493	7.2	28.2	2.3	0.49	No
494	7.2	28.2	2.3	0.49	No
495	7.2	28.2	2.3	0.49	No
496	7.2	28.2	2.3	0.49	No
497	7.2	28.2	2.3	0.49	No
498	7.2	28.2	2.3	0.49	No
499	7.2	28.2	2.3	0.49	No
500	7.2	28.2	2.3	0.49	No

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