

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
BC1	9/2/99	15:30							517				
BC1	9/21/99	12:22	85	19.00	19.5	6.96	90.05	md					
BC1	10/14/99	10:10		12.60	22.2	7.26	79	8.43					
BC1	10/27/99	16:40							2419				
BC1	11/11/99	09:40		10.70	29.9	7.53	65.6	9.08					
BC1	11/15/99	14:15							140	0.12		ND	
BC1	12/16/99	09:50	53	error	25.7	6.8	43.3	9.54					
BC1	1/13/00	11:15	34	4.60	51	6.7	36.1	11					
BC1	2/9/00	15:20							18	0.05	0.04		11
BC1	2/10/00	09:30	48	7.10	15	7.05	46.9	11.2					
BC1	2/14/00	16:50							299	ND	ND		17
BC1	3/16/00	08:30	49	8.70	18.8	MD	50.3	10.34					
BC1	4/13/00	09:45	54	12.40	17.8	7.68	60.6	9.19					
BC1	4/26/00	14:35							68				
BC1	5/4/00	13:15							378				
BC1	5/10/00	18:30							1011				
BC1	5/11/00	09:30		9.60	40.6	7.5	60.3	10.07					
BC1	5/11/00	13:05							756	0.08	ND		
BC1	5/23/00	14:30							192				
BC1	6/15/00	11:10	66	16.60	25	7.19	64.3	8.42					
BC1	7/14/00	09:20	75	16.60	16.4	7.3	77	7.08					
BC1	8/10/00	09:30	64	19.40	17.6	7.3	100.1	6.76					
BC1	8/14/00	16:10							416				4
BC1	9/11/00	17:15							722				
BC1	9/12/00	15:45							770				
BC1	9/13/00	13:10							816				
BC1	9/14/00	10:45	80	18.30	15.8	7.3	85.4	6.77					
BC1	9/14/00	10:45							602				
BC1	10/12/00	12:35	md	11.30	22	7.13	80.1	8.72					
BC1	11/9/00	15:50							689				
BC1	11/14/00	17:00							457	0.05	0.021		6
BC1	11/16/00	11:15	45	3.30	14.4	6.97	81.5	12.4					
BC1	11/20/00	12:50							156				
BC1	11/27/00	14:00							185				
BC1	12/4/00	10:10							91				
BC1	12/14/00	12:30	49	5.10	54.6	6.69	80.8	11.19					
BC1	12/26/00	11:25							51				
BC1	1/2/01	11:55							129				
BC1	1/8/01	11:35							108				
BC1	1/11/01	11:15	64	5.00	45.4	7.25	83.5	11.28					
BC1	1/12/01	11:20							130	0.27			14
BC1	1/22/01	10:40							150		0.03		
BC1	2/15/01	11:50	53	5.40	14.7	6.74	79.4	11.67					
BC1	3/15/01	11:20	50	8.30	16.7	6.95	80.6	10.74					
BC1	4/3/01	11:35							62	0.18	ND	0.07	9
BC1	4/12/01	12:00	45	8.60	14.7	7.47	79.6	10.46					
BC1	4/20/01	11:45							62				
BC1	4/24/01	11:45							196				
BC1	4/30/01	19:50							172				
BC1	5/1/01	12:00							602	0.05	ND	0.1	11
BC1	5/10/01	12:20	71	14.00	23.7	7.18	63.2	11.48					
BC1	6/14/01	12:45	76	15.20	16.1	md	83.1	8.6					
BC1	6/14/01	12:50								0.08	0.03	0.12	9
BC1	7/12/01	12:15	80	21.20	13.2	7.06	105.9	5.38					
BC1	7/30/01	13:45							574	0.13	0.02	0.08	6

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
BC1	8/9/01	10:30	88	20.20	15.3	7.27	125.5	5.9					
BC1	8/20/01	10:45							285				
BC1	8/22/01	12:20							816				
BC1	8/23/01	12:50							299				
BC1	8/27/01	13:40							365	0.07	0.02	0.08	3
BC1	9/13/01	10:00	69	16.00	31	7.26	154.7	6.21					
BC1	9/17/01	13:55								0.23	0.03	0.08	2
BC1	10/18/01	13:30	61	10.50	20.9	7.15	76	8.3					
BC1	11/1/01	14:50							479	0.04	ND	0.13	11
BC1	11/15/01	11:00	59	11.70	33	MD	81.6	9					
BC1	11/28/01	14:40							2419	1.1	ND	0.2	63
BC1	11/29/01	14:38							1300				
BC1	12/5/01	10:30							613				
BC1	12/13/01	11:54	54	7.00	18	6.88	57.6	11.13					
BC1	12/19/01	10:55							50				
BC1	1/8/02	11:55							167	0.31	0.1	0.04	14
BC1	1/10/02	11:35	57	8.60	16.4	6.92	45.1	10.6					
BC1	1/23/02	11:22							70				
BC1	2/14/02	10:00	45	6.00	10.5	7.01	46.1	11.99					
BC1	3/4/02	12:45								0.22	ND	ND	7
BC1	3/6/02	17:50							961				
BC1	3/14/02	11:25	51	7.50	76.1		45.6						
BC1	3/15/02	12:35		7.30		7.15		10.9					
BC1	4/11/02	11:22							206	0.08	ND	0.02	9
BC1	4/11/02	10:20	67	12.10	13.1	7.15	58.2	9.87					
BC1	5/8/02	11:45							326	0.06	ND	0.03	11
BC1	5/16/02	11:24	72	13.00	17.5	7.34	60.9	10.41					
BC1	6/5/02	12:05							687	0.06	ND	0.1	18
BC1	6/13/02	12:00	79	18.60	22.7	7.25	67.1	7.6					
BC1	7/9/02	10:35							156	0.12	ND	0.09	18
BC1	7/11/02	10:50	77	20.40	14.4	7.18	81	6.98					
BC1	8/12/02	10:46							613	0.08	0.03	0.08	7
BC1	8/15/02	10:05	83	19.00	13.2	7.15	108.8	6.68					
BC1	9/19/02								>2419	0.08	0.03	0.23	55
BC1	9/23/02	10:40	79	14.80	25.4	7.12	89.1	6.94					
BC1	10/10/02								1414	ND	ND	0.06	6
BC1	10/17/02	11:30	MD	10.80	19.6	7.12	82.6	8.8					
BC1	11/12/02								214	0.3	nd	0.15	15
BC1	11/14/02	10:47	57	9.90	9.99	6.99	74.3	9.2					
BC1	12/5/02								141	0.02	nd	0.04	14
BC1	12/12/02	11:05	54	7.70	61.7	7.18	89.6	10.51					
BC1	1/9/03								44	0.44	nd	0.02	17
BC1	1/14/03	10:00	MD	8.50	16.2	6.76	49.2	9.65					
BC1	2/5/03								21	0.33	ND	ND	12
BC1	2/11/03	10:00	45	5.9	39	7.62	49	10.64					
BC1	3/11/03	11:00	58	10.20	17.4	7.32	48.8	9.71					
BC1	3/20/03								192	0.22		ND	
BC1	4/8/03	10:00	60	10.40	15	6.8	49.2	9.46					
BC1	4/14/03								61	0.16		ND	
BC1	5/13/03	10:00	60	12.30	21.6	7.28	52.3	8.98					
BC1	5/13/03								308	0.09		ND	
BC1	6/9/03								579	0.07		ND	
BC1	6/10/03	10:15	64	15.90	32.5	7.61	61.2	7.84					
BC1	7/7/03	10:00	84	17.60	45.9	7.42	69.7	7.47					
BC1	7/7/03								411	0.07		0.06	

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BC2	9/2/99	15:00							44				
BC2	10/13/99	09:40		11.40	11.7	7.05	68.4	6.81					
BC2	10/27/99	16:00							1733				
BC2	11/10/99	09:15	51	9.85	13.4	7.7	51.9	7.58					
BC2	11/15/99	13:30							31			ND	
BC2	12/15/99	09:45	9.9	8.70	31.2	7.19	36.2	9.67					
BC2	1/12/00	09:30	35	4.30	18.8	6.7	37.8	8.99					
BC2	2/9/00	09:30	45	6.50	9	7.07	37	12.08					
BC2	2/9/00	14:40							5	0.12	ND		2
BC2	2/14/00	16:10							10	ND	ND		2
BC2	3/15/00	08:50	40	6.40	8.02	7.42	38.6	9.42					
BC2	4/12/00	09:45	68	11.30	8.09	6.53	33.5	8.05					
BC2	4/26/00	13:45							27				
BC2	5/4/00	12:00							23				
BC2	5/10/00	13:30	43	10.20	18.8	6.87	47.4	8.98					
BC2	5/10/00	13:25							80				
BC2	5/11/00	13:45							830	0.02	ND		
BC2	5/23/00	15:10							28				
BC2	6/14/00	08:45	72	15.60	10.2	6.72	145.2	7.26					
BC2	7/12/00	09:15	68	16.60	11	6.92	63.8	5.62					
BC2	8/9/00	09:00	68	19.60	20.6	6.5	70.9	3.51					
BC2	8/14/00	15:15							16				2
BC2	9/11/00	16:20							20				
BC2	9/12/00	15:00							26				
BC2	9/13/00	09:10	76	16.60	11.1	6.59	65.5	6.38					
BC2	9/13/00	12:30							26				
BC2	9/14/00	15:50							37				
BC2	10/11/00	10:10	60	11.40	12.9	6.79	68.3	6.28					
BC2	11/9/00	15:20							20				
BC2	11/14/00	16:10							86	0.075	0.016		16
BC2	11/15/00	10:30	39	4.10	10.3	7.73	62.6	9.2					
BC2	11/20/00	12:25							2				
BC2	11/27/00	13:30							84				
BC2	12/4/00	10:45							7				
BC2	12/13/00	11:20	41	3.90	9.67	6.26	58.1	10.32					
BC2	12/26/00	12:10							5				
BC2	1/2/01	12:30							1				
BC2	1/8/01	12:15							8				
BC2	1/10/01	10:55	44	4.20	8.03	5.91	49.9	10.02					
BC2	1/12/01	12:10							6	0.15			2
BC2	1/22/01	11:15							5		nd		
BC2	2/14/01	11:05	46	4.00	10.8	6.88	24.5	10.67					
BC2	3/14/01	11:10	52	8.40	7.29	6.98	50.5	10.5					
BC2	4/3/01	13:15							2	0.1	ND	0.03	2
BC2	4/11/01	13:10	55	9.70	9.01	6.78	49.8	md					
BC2	4/20/01	12:20							68				
BC2	4/24/01	12:20							12				
BC2	4/30/01	12:30							21				
BC2	5/1/01	13:15							30	0.02	ND	0.07	3
BC2	5/9/01	11:00	63	14.70	29.74	7.06	44.1	7.49					
BC2	6/13/01	09:25	58	13.00	13.8	7.39	58.3	7					
BC2	6/14/01	13:20								ND	ND	0.05	3
BC2	7/11/01	10:40	77	20.20	12.4	6.88	66.1	4.87					
BC2	7/30/01	13:10							162	ND	ND	0.02	2

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BC2	8/8/01	11:00	77	19.70	13.3	7.33	68.3	4.8					
BC2	8/19/01	17:05							166				
BC2	8/22/01	11:45							548				
BC2	8/23/01	12:20							167				
BC2	8/27/01	12:55							121	ND	ND	0.06	4
BC2	9/12/01	11:00	75	17.50	14.4	6.96	71.2	4.83					
BC2	9/17/01	13:15								ND	ND	0.05	9
BC2	10/17/01	10:35	54	9.20	12.5	7.1	67	7.36					
BC2	11/1/01	15:20							40	0.39	ND	0.05	5
BC2	11/14/01	10:30	63	10.60	9.89	6.89	55.5	7.81					
BC2	11/28/01	15:00							411	0.45	ND	0.05	11
BC2	11/29/01	12:00							165				
BC2	12/5/01	13:00							46				
BC2	12/12/01	10:25	43	7.20	7.99	6.74	36.6	9.36					
BC2	12/20/01	08:40							7				
BC2	1/8/02	10:30	46	8.50	9.93	6.69	36.6	9.61					
BC2	1/8/02	14:50							26	0.21	0.09	ND	2
BC2	1/23/02	14:45							15				
BC2	2/13/02	10:35	46	6.00	5.44	6.67	37.3	10.74					
BC2	3/4/02	12:15								0.09	ND	ND	1
BC2	3/7/02	09:00							18				
BC2	3/13/02	10:15	42	7.10	15.3	6.92	36.3	10.43					
BC2	4/10/02	10:35	55	10.70	13.7	6.95	44.2	8.69					
BC2	4/11/02	12:20							11	0.04	ND	ND	3
BC2	5/8/02	10:00							3	ND	ND	ND	3
BC2	5/15/02	10:10	49	12.20	8.89	6.84	47.8	8.22					
BC2	6/5/02	10:40							35	ND	ND	ND	4
BC2	6/12/02	10:45	82	18.30	14.4	6.88	53.9	6.6					
BC2	7/9/02	12:25							34	ND	ND	ND	4
BC2	7/10/02	10:10	81	20.40	13.1	6.9	63.1	4.65					
BC2	8/12/02	11:50							54	ND	ND	ND	4
BC2	8/14/02	10:25	90	21.40	13.6	6.85	75.7	3.83					
BC2	9/18/02	10:30	58	14.60	16.4	6.85	68.1	5.63					
BC2	9/19/02								105	nd	nd	nd	2
BC2	10/10/02								411	ND	ND	ND	4
BC2	10/16/02	11:00	65	10.10	13.9	6.8	66.1	6.53					
BC2	11/12/02								93	1.4	nd	nd	11
BC2	11/13/02	11:10	55	9.30	12.8	6.76	63.8	7.95					
BC2	12/5/02								26	nd	nd	nd	3
BC2	12/11/02	10:30	49	5.70	14.4	6.96	56.1	9.11					
BC2	1/8/03								3	0.15	nd	nd	1
BC2	1/15/03	11:10	55	8.30	6.54	6.72	37.1	10.15					
BC2	2/5/03								6	0.11	ND	ND	1
BC2	2/12/03	10:30	41	5	5.29	6.8	38.5	9.96					
BC2	3/12/03	10:30	58	10.00	8.86	7.13	38.7	9.5					
BC2	3/20/03								16	0.09		ND	
BC2	4/9/03	10:25	48	9.80	6.65	6.9	39.5	9.94					
BC2	4/14/03								2	0.05		ND	
BC2	5/13/03								13	0.04		ND	
BC2	5/14/03	10:05	60	12.30	9.34	6.68	44.3	8.54					
BC2	6/9/03								79	ND		ND	
BC2	6/11/03	10:20	MD	15.10	10	6.74	51	7.01					
BC2	7/7/03								39	ND		ND	
BC2	7/10/03	08:35	77	18.30	10.7	7.3	56.9	5.12					

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CC1	9/2/99	13:00							98				
CC1	9/22/99	10:40	19.3	15.7	18.5	md	230.4	5.92					
CC1	10/13/99	09:45		11.1	11.2	7.37	237.2	7.39					
CC1	10/27/99	12:50							172				
CC1	11/10/99	10:40		10.2	14.9	7.76	161.6	8.59					
CC1	11/15/99	10:45							25	0.14		0.07	
CC1	12/15/99	10:30		8.0	32.1	6.62	60.3	10.32					
CC1	1/12/00	11:12	38	4.9	71.2	6.10	47.2	10.62					
CC1	2/9/00	09:35	46	8.40	34.9	5.92	66	10.26					
CC1	2/9/00	12:15							152	0.06	0.03		25
CC1	2/14/00	13:00							328	ND	ND		49
CC1	3/15/00	09:30	48	8.10	27.2	7.1	68.9	10.71					
CC1	4/12/00	09:47	67	11.80	21	7.39	104.1	9.56					
CC1	4/26/00	10:10							156				
CC1	5/4/00	09:10							127				
CC1	5/10/00	09:55	52	12.60	30.4	7.55	104.7	8.96					
CC1	5/10/00	16:40							914				
CC1	5/11/00	16:05							830	ND	ND		
CC1	5/23/00	17:50							197				
CC1	6/14/00	09:20	70	15.60	17.8	7.25	121.7	8.58					
CC1	7/12/00	08:55	67	16.90	13.3	7.64	178.7	7.51					
CC1	8/9/00	10:25	75	19.80	16.2	7.33	208.5	6.05					
CC1	8/14/00	12:10							14				6
CC1	9/11/00	13:40							22				
CC1	9/12/00	13:25							31				
CC1	9/13/00	09:16	62	16.90	12.7	6.88	210.6	6.03					
CC1	9/13/00	09:45							91				
CC1	9/14/00	17:10							64				
CC1	10/11/00	09:55	md	11.50	17.34	7.43	255.5	6.47					
CC1	11/9/00	12:35							137				
CC1	11/14/00	11:45							24	0.041	0.026		3
CC1	11/15/00	10:35	55	3.90	10.7	6.9	193.3	10.08					
CC1	11/20/00	09:45							52				
CC1	11/27/00	10:55							91				
CC1	12/4/00	13:25							19				
CC1	12/13/00	09:30	45	4.10	13.7	MD	164.9	10.1					
CC1	12/26/00	14:45							93				
CC1	1/2/01	15:00							61				
CC1	1/8/01	14:25							93				
CC1	1/10/01	09:45	50	5.00	17.7	7.08	122.15	11.12					
CC1	1/12/01	14:40							66	0.19			4
CC1	1/22/01	13:30							88		0.04		
CC1	2/14/01	08:10	38	3.80	20.3	6.46	100.2	11.82					
CC1	3/14/01	09:15	50	8.10	15.3	7.01	123.2	10.5					
CC1	4/2/01	16:45							37	0.16	0.02	0.09	12
CC1	4/11/01	09:30	52	8.80	17.6	7.11	115.2	10.23					
CC1	4/20/01	15:10							270				
CC1	4/24/01	15:30							25				
CC1	4/30/01	16:00							63				
CC1	5/1/01	16:15							69	0.04	0.02	0.12	8
CC1	5/8/01	10:15	65	13.90	13.6	7.42	150.5	8.82					
CC1	6/13/01	09:09	61	12.30	15.6	7.06	179.5	8.64					
CC1	6/14/01	16:15								0.07	0.03	0.08	10
CC1	7/11/01	10:08	73	19.40	14.7	7.15	231.1	6.14					
CC1	7/30/01	10:05							219	0.07	ND	0.02	7

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
CC1	8/8/01	09:10	70	18.60	15.2	7	249.2	5.52					
CC1	8/19/01	14:00							59				
CC1	8/22/01	09:40							32				
CC1	8/23/01	10:25							104				
CC1	8/27/01	10:40							35	0.04	ND	0.05	5
CC1	9/12/01	09:05	62	15.20	18.1	7.2	305.4	4.2					
CC1	9/17/01	10:45								ND	ND	0.03	4
CC1	10/16/01	09:35	56	10.50	24.5	7.14	357.1	3.17					
CC1	11/1/01	16:55							378	ND	ND	0.13	9
CC1	11/14/01	09:55	65	9.90	11.2	7.24	250.9	6.34					
CC1	11/28/01	12:30							579	0.38	ND	0.2	84
CC1	11/29/01	10:30							2419				
CC1	12/5/01	15:35							1203				
CC1	12/12/01	09:35	44	7.40	29.2	6.99	69.6	10.54					
CC1	12/19/01	16:30							214				
CC1	1/8/02	12:15							961	0.22	0.18	0.16	35
CC1	1/9/02	09:10	52	8.80	50.7	7.03	53.5	9.36					
CC1	1/23/02	16:35							75				
CC1	2/13/02	09:35	42	6.00	26.8	7.08	59.6	10.84					
CC1	3/4/02	15:20								0.11	ND	ND	6
CC1	3/7/02	13:45							961				
CC1	3/13/02	09:24	39	7.10	58.8	7.11	55.3	10.15					
CC1	4/10/02	10:40	58	11.90	24.1	7.27	89.5	9.38					
CC1	4/11/02	15:40							517	0.05	ND	0.09	15
CC1	5/8/02	12:50							84	0.02	ND	0.04	11
CC1	5/14/02	10:30	65	12.20	14.6	7.51	113.4	9.29					
CC1	6/5/02	13:02							144	0.04	0.03	0.05	6
CC1	6/12/02	08:50	70	15.90	15.5	7.48	151	8					
CC1	7/9/02	15:15							18	ND	ND	0.03	3
CC1	7/10/02	09:30	84	20.60	12.8	7.32	169.2	6.35					
CC1	8/12/02	15:25							84	0.08	ND	0.04	3
CC1	8/14/02	08:45	74	19.80	12.9	7.28	239	5.19					
CC1	9/18/02	09:30	52	15.00	19.7	7.13	258.8	4					
CC1	9/19/02								132	nd	nd	0.07	6
CC1	10/10/02								118	ND	ND	ND	3
CC1	10/16/02	08:30	40	7.40	7.55	7.13	256.9	8.09					
CC1	11/12/02								276	0.27	nd	0.07	9
CC1	11/13/02	09:10	50	8.70	15.9	7.47	198.1	9.12					
CC1	12/5/02								22	nd	nd	0.02	4
CC1	12/11/02	09:25	48	5.90	16.2	7.46	165.5	10.98					
CC1	1/8/03								46	0.29	0.03	0.06	26
CC1	1/15/03	09:39	42	8.30	38.9	7.05	59.2	9.78					
CC1	2/5/03								66	0.23	ND	0.06	23
CC1	2/12/03	08:50	26	4.8	20.5	7.32	75.6	10.69					
CC1	3/12/03	09:22	61	10.40	39.7	7.14	63.2	9.87					
CC1	3/20/03								308	0.14		0.04	
CC1	4/9/03	10:10	56	11.30	30	7.42	66.6	9.5					
CC1	4/14/03								153	0.11		0.12	
CC1	5/13/03								83	0.05		ND	
CC1	5/14/03	09:45	64	13.40	18.8	7.01	93.3	8.76					
CC1	6/9/03								37	0.03		ND	
CC1	6/11/03	09:15	61	15.90	12.9	7.36	104.4	7.33					
CC1	7/7/03								80	0.02		ND	
CC1	7/9/03	09:45	72	19.10	17.3	7.19	148	6.54					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
CC2	9/2/99	12:35							116				
CC2	9/21/99	08:00		13.1	9.8	md	error	7.5					
CC2	10/2/99	08:30		9.5	7.8	7.92	244.3	8.23					
CC2	10/27/99	13:50							548				
CC2	11/9/99	08:10	11.7	9.5	20.0	8.09	151.4	8.7					
CC2	11/15/99	11:50							48	0.2		0.09	
CC2	12/14/99	08:10	42	7.3	md	7.37	59.8	10.19					
CC2	1/11/00	08:15		7.2	205.0	6.31	46.6	9.59					
CC2	2/8/00	07:50	47	8.00	25.8	7.06	66.1	9.99					
CC2	2/9/00	13:15							51	0.03	0.03		16
CC2	2/14/00	14:00							361	ND	ND		125
CC2	3/14/00	07:05	45	8.00	30.3	7.38	70	10.26					
CC2	4/11/00	07:35	43	9.90	15	7.34	97.7	9.66					
CC2	4/26/00	11:30							201				
CC2	5/4/00	10:20							961				
CC2	5/9/00	09:00	55	12.50	20.5	7.58	100.1	9.14					
CC2	5/10/00	17:45							689				
CC2	5/11/00	15:10							689	0.03	ND		
CC2	5/23/00	16:20							225				
CC2	6/13/00	07:15	58	13.40	18.5	md	109.9	8.4					
CC2	7/11/00	07:00	57	16.10	10.6	7.27	149.9	7.28					
CC2	8/8/00	07:35	62	17.80	6.44	7.55	181.5	6.79					
CC2	8/14/00	13:10							9				4
CC2	9/11/00	14:50							50				
CC2	9/12/00	07:15	53	15.10	6.72	6.43	244.1	7.44					
CC2	9/12/00	12:45							23				
CC2	9/13/00	10:45							23				
CC2	9/14/00	17:35							88				
CC2	10/10/00	07:30	49	10.80	9.01	7.19	245.3	7.42					
CC2	11/9/00	13:35							378				
CC2	11/14/00	08:00	29	3.10	18.2	7.56	167.8	11.52					
CC2	11/14/00	08:30							35	0.031	0.035		2
CC2	11/20/00	10:50							47				
CC2	11/27/00	12:00							39				
CC2	12/4/00	12:30							28				
CC2	12/12/00	08:00	34	3.60	10.4	6.77	179	10.05					
CC2	12/26/00	13:45							61				
CC2	1/2/01	14:00							61				
CC2	1/8/01	13:30							52				
CC2	1/9/01	08:00	33	5.10	16.6	7.22	114.7	10.74					
CC2	1/12/01	13:25							52	0.13			2
CC2	1/22/01	12:25							91		0.04		
CC2	2/13/01	08:00	37	4.00	21.9	7.41	91.9	11.32					
CC2	3/13/01	08:00	43	7.00	16.2	7.41	11.7	10.05					
CC2	4/2/01	17:50							84	0.11	0.03	0.09	6
CC2	4/10/01	07:00	43	8.30	22	7.38	100.1	9.97					
CC2	4/20/01	14:10							140				
CC2	4/24/01	14:20							59				
CC2	4/30/01	14:00							192				
CC2	5/1/01	15:00							70	0.03	ND	0.12	4
CC2	5/8/01	07:40	54	12.70	11.2	7.8	128.2	8.55					
CC2	6/12/01	08:30	55	13.30	8.8	7.42	158.7	8.2					
CC2	6/14/01	15:15								0.05	0.03	0.05	5
CC2	7/10/01	07:30	66	18.40	11.7	7.71	178	7.03					
CC2	7/30/01	11:15							129	ND	ND	0.02	6

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
CC2	8/7/01	08:00	65	17.70	5.62	7.38	221.3	7.07					
CC2	8/19/01	15:15							61				
CC2	8/22/01	10:10							80				
CC2	8/23/01	10:55							201				
CC2	8/27/01	11:15							70	ND	ND	0.06	4
CC2	9/11/01	08:00	48	12.80	11.7	7.35	190	6.21					
CC2	9/17/01	11:05								ND	ND	0.02	3
CC2	10/16/01	09:15	55	10.80	4.83	7.23	315.1	6.9					
CC2	11/2/01	08:30							135	ND	0.02	0.09	4
CC2	11/13/01	07:30	52	8.20	10.4	7.4	215.2	8.55					
CC2	11/28/01	13:15							770	0.16	ND	0.25	92
CC2	11/29/01	09:50							770				
CC2	12/5/01	15:00							210				
CC2	12/11/01	07:45	41	7.30	26.8	6.95	67.5	10.01					
CC2	12/19/01	17:00							53				
CC2	1/8/02	08:00	48	9.30	119	6.93	52	9.38					
CC2	1/8/02	13:00							73	0.17	0.11	0.27	71
CC2	1/23/02	16:20							40				
CC2	2/12/02	08:00	30	5.80	34.1	7.12	58.5	10.68					
CC2	3/4/02	14:30								0.09	ND	ND	5
CC2	3/7/02	14:20							178				
CC2	3/12/02	08:15	50	7.50	111	7.05	58	10.07					
CC2	4/9/02	08:00	56	11.60	18.2	7.15	87.4	9.11					
CC2	4/11/02	14:15							114	0.03	ND	0.08	24
CC2	5/8/02	11:35							517	0.02	ND	0.04	9
CC2	5/14/02	07:30	42	10.30	12.7	7.59	104.9	9.57					
CC2	6/5/02	12:10							240	0.03	0.04	0.06	8
CC2	6/11/02	07:30	54	13.20	12.7	7.37	136.5	8.35					
CC2	7/9/02	13:40							38	0.03	0.02	0.05	5
CC2	7/9/02	07:40	64	16.60	10.7	7.37	156.6	7.32					
CC2	8/12/02	13:40							8	ND	ND	0.03	3
CC2	8/13/02	07:30	61	17.60	7.82	7.34	156	6.17					
CC2	9/17/02	07:00	59	15.20	11.3	7.15	122.2	md					
CC2	9/19/02								178	nd	0.04	0.05	4
CC2	10/10/02								72	ND	ND	0.04	1
CC2	10/15/02	07:30	28	6.60	8.3	7.18	241	9.05					
CC2	11/12/02	08:00	56	8.80	29.6	7.19	124.9	9.26					
CC2	11/12/02								61	0.42	0.02	0.07	6
CC2	12/5/02								27	nd	nd	nd	3
CC2	12/10/02	07:45	48	4.90	11.4	7.36	163.9	10.38					
CC2	1/8/03								33	0.19	0.04	0.07	24
CC2	1/14/03	07:40	53	8.40	86	7.01	58.1	9.47					
CC2	2/5/03								35	0.18	ND	0.06	27
CC2	2/11/03	07:30	42	5	55.4	7.2	71.2	10.79					
CC2	3/11/03	08:30	60	9.40	62.7	7.18	62.6	9.59					
CC2	3/20/03								130	0.09		0.03	
CC2	4/8/03	07:30	50	9.10	55	6.98	65.8	9.62					
CC2	4/14/03								41	0.09		0.09	
CC2	5/13/03	07:40	54	10.80	md	6.78	86.2	9.11					
CC2	5/13/03								71	0.03		ND	
CC2	6/9/03								185	0.02		ND	
CC2	6/10/03	08:40	61	14.90	15.1	7.12	120	8					
CC2	7/7/03								130	0.04		ND	
CC2	7/8/03	07:30	65	17.40	8.57	7.32	139.2	7.15					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
CC3	9/2/99	12:20							33				
CC3	9/22/99	11:00		12.4	3.2	md	119.8	7.88					
CC3	10/12/99	10:07		8.0	2.8	7.65	119.0	9.62					
CC3	10/27/99	13:30							72				
CC3	11/9/99	10:45	56	9.6	18.6	8.38	95.6	8.69					
CC3	11/15/99	11:30							25			ND	
CC3	12/14/99	10:30		7.6	md	6.63	55.0	10.36					
CC3	1/11/00	10:00		8.0	84.3	6.60	47.4	11.32					
CC3	2/8/00	10:00		8.30	30.9	6.74	57	7.54					
CC3	2/9/00	13:00							1	0.04	0.1		3
CC3	2/14/00	13:45							12	ND	ND		82
CC3	3/14/00	09:30		7.40	27.1	7.04	58.1	10.77					
CC3	4/11/00	09:30	66	8.10	15.6	6.91	75.2	10.38					
CC3	4/26/00	11:10							1				
CC3	5/4/00	10:05							1				
CC3	5/9/00	10:30	54	9.80	27.6	7.11	77.5	9.84					
CC3	5/10/00	17:20							0				
CC3	5/11/00	15:25							8	0.1	ND		
CC3	5/23/00	16:40							2				
CC3	6/13/00	09:00		11.10	14	6.99	91.3	9.5					
CC3	7/11/00	09:30	63	12.70	6.88	7.17	102.3	9.29					
CC3	8/8/00	09:30	68	14.70	5.88	7.55	117.6	7.88					
CC3	8/14/00	12:50							435				0
CC3	9/11/00	14:30							17				
CC3	9/12/00	11:20	73	13.30	4.27	7.3	122.7	8.64					
CC3	9/12/00	12:10							51				
CC3	9/13/00	10:30							28				
CC3	9/14/00	18:00							79				
CC3	10/10/00	09:30	md	9.70	7.28	7.25	121	9.51					
CC3	11/9/00	13:20							14				
CC3	11/14/00	09:50							7	0.045	0.033		nd
CC3	11/14/00	09:50	39	4.10	4.22	6.86	113.1	10.39					
CC3	11/20/00	10:30							10				
CC3	11/27/00	11:40							6				
CC3	12/4/00	12:45							1				
CC3	12/12/00	09:25	38	4.10	10.3	7.75	108.6	11.53					
CC3	12/26/00	14:00							2				
CC3	1/2/01	14:20							1				
CC3	1/8/01	13:40							3				
CC3	1/9/01	09:30	36	4.90	14.7	7.12	82	10.55					
CC3	1/12/01	13:45							0	0.13			1
CC3	1/22/01	12:40							0		0.05		
CC3	2/13/01	09:25	35	4.10	25	6.88	78.1	11.6					
CC3	3/13/01	10:00	md	6.80	12.9	7.15	89.2	9.22					
CC3	4/2/01	17:30							2	0.2	0.04	0.12	2
CC3	4/10/01	09:30	45	6.50	19.2	7.5	86.9	11.04					
CC3	4/20/01	14:30							3				
CC3	4/24/01	14:45							0				
CC3	4/30/01	14:20							1				
CC3	5/1/01	15:15							0	0.11	0.04	0.13	1
CC3	5/8/01	09:31	63	9.20	10.4	7.48	98.8	10.43					
CC3	6/12/01	10:15	60	10.10	7.75	7.4	110.4	9.78					
CC3	6/14/01	15:30								0.09	0.05	0.08	2
CC3	7/8/01	09:15	78	14.20	8.28	7.32	130.9	8.44					
CC3	7/30/01	10:45							166	0.16	0.05	0.06	2

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
CC3	8/7/01	10:10	MD	14.50	3.33	7.59	134.1	8.4					
CC3	8/19/01	15:00							56				
CC3	8/22/01	14:45							579				
CC3	8/23/01	10:45							345				
CC3	8/27/01	15:30							63	0.03	0.03	0.04	11
CC4	9/12/01	09:15	64	14.30	9.87	7.18	143.8	6.29					
CC4	9/17/01	11:15								0.1	0.04	ND	1
CC4	10/16/01	10:15	57	10.90	8.27	7.19	140	7.4					
CC4	11/2/01	08:20							272	0.06	0.03	0.14	7
CC4	11/13/01	08:30	52	8.80	14.4	7.09	113	7.47					
CC4	11/28/01	13:30							517	0.13	ND	0.22	60
CC4	11/29/01	10:00							178				
CC4	12/5/01	15:10							140				
CC4	12/11/01	08:10	41	7.50	12.4	6.91	38.1	9.84					
CC4	12/19/01	17:05							51				
CC4	1/8/02	09:00	44	8.90	32.8	6.89	38.3	9.54					
CC4	1/8/02	13:10							344	0.15	0.12	0.03	10
CC4	1/23/02	16:15							18				
CC4	2/12/02	08:40	33	6.30	13.8	7.15	38.3	10.77					
CC4	3/4/02	14:40								ND	ND	ND	5
CC4	3/7/02	14:35							24				
CC4	3/12/02	08:55	47	7.50	35.3	6.88	41	10.13					
CC4	4/9/02	08:30	57	11.10	12.1	6.98	50.1	8.68					
CC4	4/11/02	14:35							14	ND	ND	0.03	7
CC4	5/8/02	11:50							9	ND	ND	0.05	7
CC4	5/14/02	08:15	45	10.00	10.6	7.23	57.8	8.91					
CC4	6/5/02	12:20							40	ND	0.06	0.1	13
CC4	6/11/02	08:00	60	13.50	18.7	7.02	75.3	7.34					
CC4	7/9/02	08:45	62	16.40	31.6	7.01	89.3	6.61					
CC4	7/9/02	14:00							35	ND	0.04	0.14	12
CC4	8/12/02	14:25							138	ND	0.03	0.15	8
CC4	8/13/02	08:00	70	16.70	MD	7.18	117.4	5.92					
CC4	9/17/02	08:00	57	14.50	28.4	7.07	139.3	6.56					
CC4	9/19/02								273	nd	0.04	0.06	5
CC4	10/10/02								579	ND	0.03	0.08	7
CC4	10/15/02	08:15	28	6.50	15	7	114.2	8.6					
CC4	11/12/02	08:40	56	9.30	15.8	6.9	78.1	8.69					
CC4	11/12/02								104	1.9	nd	0.04	5
CC4	12/5/02								24	0.04	nd	nd	4
CC4	12/10/02	08:30	49	5.90	9.28	7.1	75.7	9.68					
CC4	1/8/03								16	0.44	nd	nd	5
CC4	1/14/03	08:30	54	8.80	12.7	6.94	43.6	9.54					
CC4	2/5/03								5	0.4	ND	ND	4
CC4	2/11/03	08:30	44	5.7	7.63	7.24	45.2	10.45					
CC4	3/11/03	09:00	59	9.50	14.5	7.17	43.5	9.89					
CC4	3/20/03								1	0.21		ND	
CC4	4/8/03	08:00	52	9.30	10.4	7.42	45.1	9.87					
CC4	4/14/03								10	0.25		ND	
CC4	5/13/03	09:00	55	10.60	md	6.84	51.7	9.11					
CC4	5/13/03								10	0.06		ND	
CC4	6/9/03								93	ND		0.08	
CC4	6/10/03	09:30	60	15.00	9.3	6.84	66.7	6.97					
CC4	7/7/03	08:30	65	16.10	7.48	6.79	82.8	6.08					
CC4	7/7/03								250	ND		0.04	

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
EC1	9/2/99	13:45							340				
EC1	9/24/99	09:15		13.7	4.9	md	52.2	8.44					
EC1	10/15/99	09:10		8.6	4.7	7.22	63.4	9.73					
EC1	10/27/99	15:00							722				
EC1	11/9/99	08:30		9.5	5.6	6.95	51.0	10					
EC1	11/15/99	12:30							33	0.52		ND	
EC1	12/14/99	08:40	47	8.0	14.6	6.49	24.9	9.97					
EC1	1/11/00	08:19	41	7.6	38.6	7.08	32.0	10.41					
EC1	2/8/00	09:15	49	8.70	7.2	6.64	24.9	10.4					
EC1	2/9/00	13:50							13	0.2	0.09		5
EC1	2/14/00	15:15							34	0.03	ND		15
EC1	3/14/00	09:18	52	8.20	9.19	6.58	24.3	10.88					
EC1	4/11/00	08:21	52	9.50	5.12	6.54	41.4	10.28					
EC1	4/26/00	12:45							89				
EC1	5/4/00	11:00							56				
EC1	5/9/00	08:35	53	12.30	9.81	6.82	43.3	9.2					
EC1	5/10/00	12:40							914				
EC1	5/11/00	14:35							870	0.07	ND		
EC1	5/23/00	15:55							99				
EC1	6/13/00	07:48	57	12.50	6.61	7.07	44.3	9.11					
EC1	7/11/00	08:20	62	16.00	4.81	6.76	40.5	8.57					
EC1	8/8/00	09:40	75	17.90	6.71	7.03	60.7	7.61					
EC1	8/14/00	14:15							50				1
EC1	9/11/00	15:30							118				
EC1	9/12/00	14:10							457				
EC1	9/12/00	08:15	65	15.30	6.14	7.08	57.7	7.91					
EC1	9/13/00	11:45							144				
EC1	9/14/00	16:30							299				
EC1	10/10/00	09:17	52	11.20	7.27	6.92	53.4	9.31					
EC1	11/9/00	14:25							152				
EC1	11/14/00	13:35							43	0.102	0.012		nd
EC1	11/14/00	08:15	35	4.30	3.44	6.59	58.8	10					
EC1	11/20/00	11:30							30				
EC1	11/27/00	12:35							313				
EC1	12/4/00	11:40							37				
EC1	12/12/00	08:20	34	4.50	7.29	6.65	55	11.35					
EC1	12/26/00	13:05							12				
EC1	1/2/01	13:30							8				
EC1	1/8/01	12:45							14				
EC1	1/9/01	08:31	35	5.80	6.11	6.4	45.4	10.91					
EC1	1/12/01	12:45							13	0.27			1
EC1	1/22/01	11:45							33		0.02		
EC1	2/13/01	09:15	31	4.90	4.74	6.72	44.4	12.61					
EC1	3/13/01	09:06	50	7.60	4.82	7.01	44.9	10.96					
EC1	4/3/01	14:20							18	0.22	ND	0.05	4
EC1	4/10/01	09:25	43	8.20	5.9	6.85	43	10.13					
EC1	4/20/01	13:15							33				
EC1	4/24/01	13:10							38				
EC1	4/30/01	13:30							96				
EC1	5/1/01	14:15							272	0.06	ND	0.07	4
EC1	5/8/01	09:15	60	12.60	6.29	7.21	47.4	9.34					
EC1	6/12/01	09:26	59	13.30	7.17	7.18	48.9	9.6					
EC1	6/14/01	14:15								0.1	ND	0.05	3
EC1	7/10/01	10:20	63	17.80	4.2	7.2	53.1	8.12					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp - C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
EC1	7/30/01	12:00							343	0.21	0.02	0.05	2
EC1	8/8/01	11:30	73	18.10	4.7	7.2	52.5	7.53					
EC1	8/19/01	16:05							166				
EC1	8/22/01	10:45							308				
EC1	8/23/01	11:30							629				
EC1	8/27/01	11:50							93	0.12	ND	0.04	2
EC1	9/11/01	09:30	67	14.40	5.7	7.11	57.8	7.88					
EC1	9/17/01	12:00								0.13	0.03	0.05	2
EC1	10/16/01	09:38	55	10.60	6.07	7.42	54.5	11.23					
EC1	11/1/01	16:25							114	0.4	ND	0.04	2
EC1	11/13/01	09:42	53	9.00	4.92	7.17	58.5	8.86					
EC1	11/28/01	14:00							980	0.54	ND	0.13	39
EC1	11/29/01	11:10							153				
EC1	12/5/01	13:55							84				
EC1	12/11/01	09:39	47	7.60	6	6.83	40.6	10.58					
EC1	12/20/01	07:55							20				
EC1	1/8/02	09:25	54	9.60	21.6	6.64	36.6	10.1					
EC1	1/8/02	13:50							63	0.36	0.09	ND	22
EC1	1/23/02	15:30							9				
EC1	2/12/02	09:34	44	6.70	5.99	7.05	38.7	11.24					
EC1	3/4/02	13:20								0.15	ND	ND	2
EC1	3/7/02	15:15							74				
EC1	3/12/02	09:40	49	7.90	35.8	6.71	34.7	10.18					
EC1	4/9/02	09:30	55	11.20	6	6.97	40.7	9.03					
EC1	4/11/02	13:25							135	0.12	ND	ND	4
EC1	5/8/02	10:50							46	0.06	ND	ND	3
EC1	5/14/02	09:46	56	11.00	5.6	7.22	44.3	9.6					
EC1	6/5/02	11:30							144	0.06	ND	ND	4
EC1	6/11/02	09:44	66	13.80	6.88	7.12	45.1	9.08					
EC1	7/9/02	10:30	79	17.50	5.45	7.23	48.2	8.4					
EC1	7/9/02	10:30							517	0.08	ND	0.03	3
EC1	8/12/02	13:05							82	0.11	0.1	0.17	4
EC1	8/13/02	09:55	84	18.00	9.51	7.04	60.9	6.24					
EC1	9/17/02	09:05	64	15.60	12	7.05	54.9	7.26					
EC1	9/19/02								613	0.05	nd	0.11	22
EC1	10/10/02								148	0.08	ND	ND	3
EC1	10/15/02	09:45	48	6.70	5.12	6.98	55	10.6					
EC1	11/12/02	09:20	56	9.50	7.86	6.85	61	9.34					
EC1	11/12/02								91	0.89	nd	nd	5
EC1	12/5/02								68	0.09	nd	nd	3
EC1	12/10/02	09:25	50	5.80	38.1	6.99	56.6	9.71					
EC1	1/8/03								17	0.39	nd	nd	10
EC1	1/14/03	09:30	56	8.90	10.5	6.73	38.4	9.68					
EC1	2/5/03								7	0.31	ND	ND	8
EC1	2/11/03	09:28	40	6.3	5.63	7.52	37.9	10.62					
EC1	3/11/03	09:25	54	9.80	12.9	7.01	37.8	10.23					
EC1	3/20/03								24	0.21		ND	
EC1	4/8/03	09:25	54	9.60	7.83	7.06	37.9	10.21					
EC1	4/14/03								19	0.17		ND	
EC1	5/13/03	09:00	66	11.10	6.69	MD	39.7	10.02					
EC1	5/13/03								153	0.14		ND	
EC1	6/9/03								214	0.06		ND	
EC1	6/10/03	09:30	63	14.60	7.47	7.35	44	9.55					
EC1	7/7/03								140	0.12		ND	
EC1	7/8/03	09:40	66	16.30	7.39	7.23	51.7	7.89					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
EC2	9/2/99	14:15							33				
EC2	9/24/99	10:26		11.60	1.17		38.4	10.8					
EC2	10/15/99	10:45		8.0	1.9	7.12	39.8	10.77					
EC2	10/27/99	15:15							866				
EC2	11/9/99	09:43	9.4	9.1	1.7	6.95	40.5	11.01					
EC2	11/15/99	12:50							3			ND	
EC2	12/14/99	09:30	43	8.6	24.8	6.32	22.4	10.46					
EC2	1/11/00	09:30	41	8.4	14.6	6.83	30.2	10.48					
EC2	2/8/00	08:23	47	9.00	5.14	6.88	21.9	10.49					
EC2	2/9/00	14:00							0	0.29	0.04		5
EC2	2/14/00	15:30							0	ND	ND		15
EC2	3/14/00	08:23	49	8.10	4.24	6.81	21.5	11.17					
EC2	4/11/00	09:24	56	8.70	3.69	6.39	24.5	10.4					
EC2	4/26/00	13:00							0				
EC2	5/4/00	11:15							0				
EC2	5/9/00	09:25	53	9.60	13.6	6.43	37	10.6					
EC2	5/10/00	12:55							1				
EC2	5/11/00	14:20							2	0.24	ND		
EC2	5/23/00	15:45							0				
EC2	6/13/00	09:00	55	10.20	7.68	7.21	38.2	10.02					
EC2	7/11/00	09:25	63	11.80	3.36	6.69	38.9	10.09					
EC2	8/8/00	08:50	69	13.40	3.12	7	39.5	9.22					
EC2	8/14/00	14:30							1				2
EC2	9/11/00	15:45							5				
EC2	9/12/00	09:00	65	12.50	11.4	7.88	54.3	9.44					
EC2	9/12/00	14:30							8				
EC2	9/13/00	12:00							7				
EC2	9/14/00	16:20							10				
EC2	10/10/00	08:13	51	10.30	2.04	7.29	43.7	10.32					
EC2	11/9/00	14:45							3				
EC2	11/14/00	13:55							0	0.168	0.01		nd
EC2	11/14/00	09:09	35	4.60	1.16	6.03	43.1	11.84					
EC2	11/20/00	11:50							0				
EC2	11/27/00	12:50							0				
EC2	12/4/00	11:30							0				
EC2	12/12/00	09:00	37	4.60	3.75	6.37	46.4	11.86					
EC2	12/26/00	12:55							5				
EC2	1/2/01	13:10							0				
EC2	1/8/01	08:45	55	9.40	11.4	6.69	33.8	10.27					
EC2	1/8/01	no data							no data				
EC2	3/14/01	10:20	50	7.30	3.2	7.02	38	11.25					
EC2	4/3/01	14:00							1	0.42	ND	0.05	4
EC2	4/10/01	08:40	43	6.90	5.73	7.24	39	11.54					
EC2	4/20/01	13:00							3				
EC2	4/24/01	13:00							4				
EC2	4/30/01	13:10							32				
EC2	5/1/01	13:45							1	0.35	ND	0.05	4
EC2	5/10/01	11:50	65	8.90	3.05	7	37.7	10.52					
EC2	6/12/01	08:45	55	9.90	3.11	7.44	40.1	10.31					
EC2	6/14/01	14:00								0.21	ND	0.02	2
EC2	7/10/01	11:15	68	12.70	2.22	7.13	40.9	9.48					
EC2	7/30/01	12:15							11	0.1	ND	ND	1
EC2	8/8/01	11:00	70	13.30	1.36	7.24	40.3	9.42					
EC2	8/19/01	16:25							10				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
EC2	8/22/01	11:05							158				
EC2	8/23/01	11:45							5				
EC2	8/27/01	12:15							12	0.08	ND	ND	2
EC2	9/11/01	08:44	59	12.50	1.8	7.16	40.9	9.92					
EC2	9/17/01	12:30								0.1	ND	ND	3
EC2	10/16/01	08:59	53	10.50	1.4	7.34	41.5	10.1					
EC2	11/1/01	16:00							1	0.48	ND	ND	1
EC2	11/13/01	09:13	56	9.20	2.01	7.13	43.4	9.59					
EC2	11/28/01	14:20							16	1.3	ND	0.09	50
EC2	11/29/01	11:20							2				
EC2	12/5/01	13:40							1				
EC2	12/11/01	09:01	46	8.40	3	6.9	33.8	10.69					
EC2	12/20/01	08:10							11				
EC2	1/8/02	08:45	55	9.40	11.4	6.7	33.8	10.27					
EC2	1/8/02	14:10							1	0.55	0.09	ND	36
EC2	1/23/02	15:15							4				
EC2	2/12/02	08:57	39	7.30	3.73	6.98	34.7	10.9					
EC2	3/4/02	12:55								0.27	ND	ND	3
EC2	3/7/02	15:40							2				
EC2	3/12/02	08:40	40	7.90	10.4	6.79	33.8	10.9					
EC2	4/9/02	08:56	49	9.30	5.45	6.78	36.3	10.28					
EC2	4/11/02	13:05							2	0.24	ND	ND	5
EC2	5/8/02	10:30							0	0.2	ND	ND	2
EC2	5/14/02	09:12	53	8.30	3.16	7.22	35.8	11.62					
EC2	6/5/02	11:10							7	0.18	ND	ND	3
EC2	6/11/02	08:52	60	10.30	3.19	7.38	37.5	10.15					
EC2	7/9/02	09:40	72	12.90	3.07	7.25	38.7	9.45					
EC2	7/9/02	09:40							54	0.17	ND	ND	4
EC2	8/12/02	12:45							44	0.13	ND	ND	2
EC2	8/13/02	10:20	77	14.30	2.73	7.36	43.4	9.09					
EC2	9/19/02								50	0.1	nd	nd	2
EC2	9/23/02	11:30	66	12.60	1.52	7.15	41.5	8.92					
EC2	10/10/02								4	0.1	ND	ND	ND
EC2	10/15/02	08:52	45	8.30	1.89	7.09	41	9.8					
EC2	11/12/02	08:45	58	9.60	2.9	7.03	45.2	9.79					
EC2	11/12/02								4	0.56	nd	nd	6
EC2	12/5/02								1	0.18	nd	nd	12
EC2	12/10/02	08:50	50	6.80	13.2	7.11	44.6	10.29					
EC2	1/8/03								1	0.45	nd	nd	4
EC2	1/14/03	08:45	55	9.10	4.96	6.88	33.7	10.36					
EC2	2/5/03								1	0.39	ND	ND	6
EC2	2/11/03	08:45	38	7.5	3.05	7.38	32.4	10.49					
EC2	3/11/03	08:45	52	9.40	8.69	6.96	34.2	10.77					
EC2	3/20/03								3	0.43		ND	
EC2	4/8/03	08:45	51	9.10	5.97	7.22	33.9	10.03					
EC2	4/14/03								2	0.3		ND	
EC2	5/13/03	08:42	55	9.50	4.8	6.94	37.7	10.42					
EC2	5/13/03								1	0.27		ND	
EC2	6/9/03								2	0.16		ND	
EC2	6/10/03	09:05	63	11.00	3.79	7.35	37	10.4					
EC2	7/7/03								19	0.14		ND	
EC2	7/8/03	08:52	63	12.20	4.58	7.44	38.2	9.71					
FC1	9/2/99	16:00							291				
FC1	9/21/99	11:45	85	17.00	21.5	7	77.5	md					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
FC1	10/14/99	09:40		11.90	20.9	7.25	73	8.42					
FC1	10/27/99	16:45							2419				
FC1	11/11/99	11:00		10.80	24.3	7.29	54	9.53					
FC1	11/15/99	14:30							67	0.09		ND	
FC1	12/16/99	10:30	53	9.70	33.7	6.87	41.3	10.42					
FC1	1/13/00	11:00	34	6.10	53.7	6.9	36.3	11.5					
FC1	2/9/00	15:30							93	0.27	0.06		8
FC1	2/10/00	10:25	45	7.10	10	6.52	44.2	9.66					
FC1	2/14/00	17:00							313	ND	ND		34
FC1	3/16/00	09:00	49	8.70	9.92	7.02	46.6	9.92					
FC1	4/13/00	10:30	53	10.00	14.1	7.01	54.1	8.35					
FC1	4/26/00	14:45							146				
FC1	5/4/00	13:20							299				
FC1	5/10/00	18:35							1011				
FC1	5/11/00	12:50							659	0.08	ND		
FC1	5/11/00	10:10		9.70	37.5	7.8	53.2	md					
FC1	5/23/00	14:20							613				
FC1	6/15/00	10:30	64	15.50	10.8	7.27	57.3	8.75					
FC1	7/14/00	09:45	68	16.40	17.1	7.44	65	8.09					
FC1	8/10/00	10:10	65	18.40	12.4	7.34	74.6	7.62					
FC1	8/14/00	16:15							238				4
FC1	9/11/00	17:20							722				
FC1	9/12/00	15:50							361				
FC1	9/13/00	13:20							1553				
FC1	9/14/00	12:00							479				
FC1	9/14/00	12:00	80	18.40	11.8	7.33	73.6	6.9					
FC1	10/12/00	10:00	53	10.80	10.1	7.6	70	8.71					
FC1	11/9/00	15:55							172				
FC1	11/14/00	17:15							44	0.027	0.019		3
FC1	11/16/00	12:30	47	3.30	5.04	6.74	70.2	11.77					
FC1	11/20/00	13:00							43				
FC1	11/27/00	14:05							68				
FC1	12/4/00	10:05							64				
FC1	12/14/00	11:30	49	5.70	39.3	6.67	55.8	11.13					
FC1	12/26/00	11:20							43				
FC1	1/2/01	11:45							135				
FC1	1/8/01	11:30							82				
FC1	1/11/01	10:45	68	5.40	11.3	7.17	61.2	11.18					
FC1	1/12/01	11:10							96	0.48			2
FC1	1/22/01	10:30							146		nd		
FC1	2/15/01	11:15	49	5.40	7.97	6.85	59.3	11.22					
FC1	3/15/01	10:55	47	8.10	12.1	7.02	59.8	10.49					
FC1	4/3/01	11:30							52	0.24	ND	0.04	6
FC1	4/12/01	11:15	44	8.10	7.96	7.45	55.2	10.69					
FC1	4/20/01	11:35							240				
FC1	4/24/01	11:20							93				
FC1	4/30/01	20:00							457				
FC1	5/1/01	11:50							219	0.09	ND	0.07	6
FC1	5/10/01	11:35	59	12.50	13	7.08	50.6	9.57					
FC1	6/14/01	12:45								0.14	0.04	0.11	9
FC1	6/14/01	12:00	70	13.90	13.8	md	60.6	8.9					
FC1	7/12/01	10:15	75	18.40	16.4	7.29	71.8	7.06					
FC1	7/30/01	14:00							549	0.16	0.02	0.08	9
FC1	8/9/01	11:30	88	18.10	15.2	7.16	76.9	6.63					
FC1	8/20/01	11:00							261				

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
FC1	8/22/01	12:30							548				
FC1	8/23/01	13:00							659				
FC1	8/27/01	13:55							91	0.08	0.05	0.13	10
FC1	9/13/01	10:30	71	17.20	43.5	7.13	87.5	4.97					
FC1	9/17/01	14:10								0.08	0.07	0.15	27
FC1	10/18/01	11:51	56	9.40	21.5	MD	53.4	8.2					
FC1	11/1/01	14:45							285	0.1	ND	0.08	6
FC1	11/15/01	10:32	59	11.50	17.5	MD	61.7	9.51					
FC1	11/28/01	14:30							>2419	1.6	0.02	0.23	90
FC1	11/29/01	14:33							488				
FC1	12/5/01	10:25							488				
FC1	12/13/01	11:30	54	9.20	20	6.87	51.5	10.22					
FC1	12/19/01	10:50							46				
FC1	1/8/02	11:45							133	0.31	0.08	0.05	29
FC1	1/10/02	10:50	50	8.70	17.7	6.94	42.5	13.15					
FC1	1/23/02	11:10							62				
FC1	2/14/02	10:30	45	6.40	8.94	7.02	46	12.08					
FC1	3/4/02	12:35								0.37	ND	ND	5
FC1	3/6/02	17:35							1203				
FC1	3/14/02	11:08	49	8.00	24.3	7.23	44.7	10.55					
FC1	4/11/02	09:00	62	11.50	8.77	7.29	51.1	9.69					
FC1	4/11/02	11:15							435	0.15	ND	ND	8
FC1	5/8/02	11:30							240	0.12	ND	ND	5
FC1	5/16/02	10:41	63	11.10	6.6	7.39	54.6	MD					
FC1	6/5/02	11:55							980	0.1	ND	0.02	8
FC1	6/13/02	11:15	76	17.00	16.7	7.27	58.2	7.76					
FC1	7/9/02	10:25							1300	0.14	ND	0.12	26
FC1	7/11/02	10:20	77	19.50	18.7	7.22	67.2	7.5					
FC1	8/12/02	11:00							1203	ND	ND	0.1	10
FC1	8/15/02	10:25	94	18.50	16.3	7.12	82.8	5.85					
FC1	9/19/02	11:40	70	19.30	19.1	7.15	101.9	7.78					
FC1	9/19/02								1414	0.03	0.03	0.13	17
FC1	10/10/02								173	0.03	ND	0.05	7
FC1	10/17/02	09:45	md	10.40	11.8	7.28	79.2	13.33					
FC1	11/12/02								649	0.53	nd	0.03	7
FC1	11/14/02	10:11	56	9.70	9.46	6.99	63.3	9.79					
FC1	12/5/02								649	0.05	nd	0.05	7
FC1	12/12/02	10:05	54	7.80	6.53	7.23	57.3	10.29					
FC1	1/9/03								20	0.65	nd	nd	11
FC1	1/16/03	10:00	48	7.50	10.9	7.04	46.1	10.07					
FC1	2/5/03								83	0.48	ND	ND	10
FC1	2/13/03	09:55	49	7.2	7.36	7.23	49	10.92					
FC1	3/13/03	10:20	59	10.10	12.8	6.98	46.8	9.78					
FC1	3/20/03								166	0.39		ND	
FC1	4/10/03	10:30	55	10.30	27.3	6.83	47.9	9.71					
FC1	4/14/03								42	0.28		ND	
FC1	5/13/03								461	0.18		ND	
FC1	5/15/03	11:25	55	11.90	10.2	7.4	50.9	9.96					
FC1	6/9/03								1203	0.12		0.02	
FC1	6/12/03	10:45	61	14.20	12	7.51	56.3	9.59					
FC1	7/7/03								687	0.12		0.04	
FC1	7/9/03	10:30	76	17.40	20.2	7.28	60.9	8.09					
FC2	9/2/99	16:00							64				
FC2	9/21/99	10:11	85	15.00	2.34	7.29	76.2	md					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
FC2	10/14/99	08:30		9.70	2.91	7.47	53.5	10.46					
FC2	10/27/99	17:00							1414				
FC2	11/11/99	10:35		10.30	7.43	7.31	49.3	10.13					
FC2	11/15/99	15:00							3			ND	
FC2	12/16/99	10:55	54	10.00	24.7	6.98	35.2	10.73					
FC2	1/13/00	10:40	34	7.30	20.6	7.1	34.7	11.1					
FC2	2/9/00	15:45							792	0.07	ND		4
FC2	2/10/00	10:50		7.70	4	6.83	37.8	11.23					
FC2	2/14/00	17:10							3	ND	ND		13
FC2	3/16/00	10:00	48	8.60	3.78	7.37	38	11.06					
FC2	4/13/00	11:00	53	11.00	12.9	7.02	52.2	8.02					
FC2	4/26/00	15:20							2				
FC2	5/4/00	13:35							2				
FC2	5/10/00	18:45							5				
FC2	5/11/00	10:40		9.20	55	7.1	41.5	11.29					
FC2	5/11/00	12:30							28	0.06	ND		
FC2	5/23/00	13:00							37				
FC2	6/15/00	10:00	64	12.50	3.98	7.23	46.6	9.88					
FC2	7/14/00	10:30	66	13.90	1.92	7.52	48.6	9.68					
FC2	8/10/00	10:45	64	15.60	5.39	7.4	50.5	10.1					
FC2	8/14/00	16:35							127				1
FC2	9/11/00	17:40							99				
FC2	9/12/00	16:00							91				
FC2	9/13/00	13:30							47				
FC2	9/14/00	13:00							43				
FC2	9/14/00	13:00	89	16.10	3.85	7.51	54.6	9.32					
FC2	10/12/00	11:20	56	9.70	3.2	7.36	56.5	10.53					
FC2	11/9/00	16:10							58				
FC2	11/14/00	17:30							56	0.029	0.015		nd
FC2	11/16/00	13:10	45	3.00	1.51	6.54	59.8	12.61					
FC2	11/20/00	13:15							19				
FC2	11/27/00	14:20							46				
FC2	12/4/00	09:50							24				
FC2	12/14/00	10:30	47	6.50	14.2	6.99	52.8	11.28					
FC2	12/26/00	11:10							11				
FC2	1/2/01	11:35							4				
FC2	1/8/01	11:15							2				
FC2	1/11/01	10:00	62	4.70	9.91	7.4	46.9	14.28					
FC2	1/12/01	10:55							7	0.11			nd
FC2	1/22/01	10:15							1		nd		
FC2	2/15/01	10:10	44	4.70	3.06	6.82	45.3	11.56					
FC2	3/15/01	10:05	46	6.70	2.41	7.37	46.8	11.54					
FC2	4/3/01	10:30							10	0.09	ND	0.03	ND
FC2	4/12/01	10:20	44	6.50	3.3	7.4	45.5	11.71					
FC2	4/20/01	11:25							2				
FC2	4/24/01	11:10							1				
FC2	4/30/01	20:10							6				
FC2	5/1/01	10:10							4	0.05	ND	0.05	2
FC2	5/10/01	10:50	64	9.50	2.71	7.06	35.7	10.33					
FC2	6/14/01	11:50								0.07	ND	0.02	ND
FC2	6/14/01	10:45	71	10.90	2.09	md	48.5	10.39					
FC2	7/12/01	10:22	73	16.20	4	7.38	51.6	MD					
FC2	7/30/01	14:10							186	0.08	ND	ND	1
FC2	8/9/01	12:15	88	17.20	1.58	7.4	51	8.71					
FC2	8/20/01	11:20							130				

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
FC2	8/22/01	12:50							2419				
FC2	8/23/01	13:15							238				
FC2	8/27/01	14:30							49	0.04	ND	ND	1
FC2	9/13/01	11:15	73	15.10	2.02	7.5	54.3	9.11					
FC2	9/17/01	14:20								0.06	0.02	ND	5
FC2	10/18/01	11:07	67	7.80	2.9	MD	39.1	10.87					
FC2	11/1/01	14:30							40	0.24	ND	ND	1
FC2	11/15/01	09:51	56	10.70	6.15	MD	58.3	10.29					
FC2	11/28/01	14:10							124	0.38	ND	0.18	70
FC2	11/29/01	14:22							15				
FC2	12/5/01	10:05							12				
FC2	12/13/01	10:17	54	9.50	7.57	7.08	39.9	11.01					
FC2	12/19/01	10:35							14				
FC2	1/8/02	11:25							7	0.09	0.11	ND	10
FC2	1/10/02	09:50	49	8.80	8.1	7.15	38.8	10.98					
FC2	1/23/02	10:58							5				
FC2	2/14/02	11:10	48	7.20	4.04	7.17	39	12.39					
FC2	3/4/02	12:20								0.04	ND	ND	1
FC2	3/6/02	17:15							3				
FC2	3/14/02	10:15	51.5	8.30	8.93	7.39	30	12.07					
FC2	4/11/02	09:40	59	10.00	5.15	7.35	42.5	10.93					
FC2	4/11/02	10:55							3	0.02	ND	ND	2
FC2	5/8/02	10:45							28	0.02	ND	ND	1
FC2	5/16/02	09:55	58	8.80	2.09	7.35	44.3	10.32					
FC2	6/5/02	11:40							79	0.04	ND	ND	4
FC2	6/13/02	10:20	74	14.00	3.86	7.4	46.8	8.24					
FC2	7/9/02	10:07							32	0.06	ND	ND	7
FC2	7/11/02	09:20	79	16.00	2.25	7.34	49.5	9.1					
FC2	8/12/02	11:10							48	0.08	ND	ND	1
FC2	8/15/02	10:50	78	15.90	1.94	7.31	53.5	9.38					
FC2	9/19/02	10:32	65	12.30	2.52	7.34	55.8	9.2					
FC2	9/19/02								49	0.03	nd	nd	10
FC2	10/10/02								579	0.04	ND	ND	1
FC2	10/17/02	10:37	MD	8.60	3.54	7.29	55.5	7.11					
FC2	11/12/02								38	0.43	nd	nd	5
FC2	11/14/02	09:30	51	9.80	7.63	6.98	64.5	10.27					
FC2	12/5/02								3	nd	nd	0.04	22
FC2	12/12/02	10:55	54	7.40	20.3	7.32	56	9.26					
FC2	1/9/03								5	0.09	nd	nd	5
FC2	1/16/03	09:30	38	7.20	7.38	7.24	38.9	10.94					
FC2	2/5/03								3	0.12	ND	ND	4
FC2	2/13/03	09:25	47	7.4	3.2	7.15	40.9	11.13					
FC2	3/13/03	09:45	59	9.90	4.92	6.93	40.8	9.62					
FC2	3/20/03								2	0.16		ND	
FC2	4/10/03	09:45	52	9.70	4.28	7	40.5	10.14					
FC2	4/14/03								2	0.07		ND	
FC2	5/13/03								26	0.06		ND	
FC2	5/15/03	10:55	50	9.70	4.44	7.41	43.3	10.53					
FC2	6/9/03								125	0.04		ND	
FC2	6/12/03	10:20	61	12.10	3.87	7.4	46.1	11.59					
FC2	7/7/03								32	0.05		ND	
FC2	7/9/03	11:00	74	14.20	2.7	7.06	49	9.42					
LA1	9/3/99	09:45							326				
LA1	10/13/99	10:50		14.90	12.9	7.62	284.8	10.31					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LA1	10/27/99	16:25							479				
LA1	11/10/99	10:40	53	11.60	13	6.88	127.2	7.2					
LA1	11/15/99	14:00							45	0.29		0.1	
LA1	12/15/99	10:45	10	7.70	30.9	7.9	143.1	14.04					
LA1	1/12/00	10:20	35	3.20	63.8	5.4	91.7	7.78					
LA1	2/9/00	15:10							21	0.8	0.25		15
LA1	2/9/00	10:15		8.60	32	6.6	164.9	13					
LA1	2/14/00	16:40							457	0.08	0.08		32
LA1	3/15/00	09:50	42	9.00	21.8	7.22	178.6	9.56					
LA1	4/12/00	10:30	65	16.00	15.5	8.13	241.3	10.03					
LA1	4/26/00	14:20							50				
LA1	5/4/00	13:00							104				
LA1	5/10/00	14:05							206				
LA1	5/10/00	14:00	43	13.00	23.5	7.9	202	8.71					
LA1	5/11/00	13:20							192	0.12	0.04		
LA1	5/23/00	14:35							86				
LA1	6/14/00	09:30	73	20.00	19.3	7.87	221.5	9.5					
LA1	7/12/00	10:10	68	19.30	5.98	8.5	269.19	9.13					
LA1	8/9/00	09:40	74	21.10	6.75	7.72	283.1	7.56					
LA1	8/14/00	16:00							114				12
LA1	9/11/00	16:50							60				
LA1	9/12/00	15:30							82				
LA1	9/13/00	09:40	73	19.00	3.59	7.75	272.3	9.09					
LA1	9/13/00	13:00							93				
LA1	9/14/00	15:20							80				
LA1	10/10/00	09:50	53	12.70	4.44	7.74	262.1	7.32					
LA1	11/9/00	15:40							60				
LA1	11/14/00	11:00	52	5.60	9	8.24	201.5	14.09					
LA1	11/14/00	16:40							7	0.051	0.06		8
LA1	11/20/00	12:45							8				
LA1	11/27/00	13:50							12				
LA1	12/4/00	10:20							5				
LA1	12/12/00	10:30	40	3.70	7.46	7.14	233.5	12.21					
LA1	12/26/00	11:35							43				
LA1	1/2/01	12:00							11				
LA1	1/8/01	11:45							10				
LA1	1/9/01	11:30	38	5.70	10.2	7.21	230.2	10.09					
LA1	1/12/01	11:30							12	1.1			6
LA1	1/22/01	10:50							30		0.14		
LA1	2/13/01	09:40	42	5.10	22.4	6.67	206.3	10.67					
LA1	3/13/01	10:25	62	11.10	12.8	7.79	223	10.08					
LA1	4/3/01	11:45							20	0.52	0.11	0.22	19
LA1	4/10/01	10:50	46	12.10	27.7	7.68	198.6	8.94					
LA1	4/20/01	11:55							33				
LA1	4/24/01	12:00							34				
LA1	4/30/01	19:40							66				
LA1	5/1/01	12:10							58	0.36	0.14	0.28	26
LA1	5/8/01	10:08	64	17.20	24.7	8	237.4	9.37					
LA1	6/12/01	11:10	md	17.20	21.6	8.39	248.5	8.68					
LA1	6/14/01	12:55								0.63	0.15	0.25	13
LA1	7/10/01	10:50	72	22.80	7.99	7.86	265.9	6.78					
LA1	7/30/01	13:35							260	ND	0.21	0.26	10
LA1	8/7/01	10:45	75	22.60	6.73	7.85	255.9	7.22					
LA1	8/20/01	10:45							50				
LA1	8/22/01	12:10							102				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LA1	8/23/01	12:45							72				
LA1	8/27/01	13:30							13	ND	0.17	0.23	4
LA1	9/11/01	11:00	73	18.40	5.59	7.9	260.9	7.83					
LA1	9/17/01	13:45								ND	0.18	0.22	7
LA1	10/16/01	12:00	76	15.40	7.33	8.13	239.1	9.97					
LA1	11/1/01	15:00							114	0.1	0.07	0.26	18
LA1	11/13/01	11:00	57	10.30	22.8	7.66	168.5	8.75					
LA1	11/28/01	14:55							1203	4	0.12	0.26	44
LA1	11/29/01	14:45							>2419				
LA1	12/5/01	10:40							1300				
LA1	12/11/01	11:05	43	6.90	16.5	7.39	189.6	9.49					
LA1	12/19/01	11:05							365				
LA1	1/8/02	10:30	62	10.70	70.9	7.11	94.6	8.28					
LA1	1/8/02	12:05							575	0.64	0.24	0.28	34
LA1	1/23/02	11:29							172				
LA1	2/12/02	10:30	47	6.10	13.8	7.66	185.7	9.89					
LA1	3/4/02	12:55								1.7	0.07	0.08	6
LA1	3/7/02	09:20							>2419				
LA1	3/12/02	11:00	45	8.50	77	7.21	109	9.22					
LA1	4/9/02	11:55	55	14.80	12.4	7.91	234.2	7.07					
LA1	4/11/02	11:30							132	0.86	0.07	0.23	16
LA1	5/8/02	11:52							11	0.49	0.12	0.18	15
LA1	5/14/02	10:30	65	15.60	11.9	8.04	242.2	8.16					
LA1	6/5/02	12:15							1203	ND	0.2	0.28	22
LA1	6/13/02	10:00	70	21.30	23.3	7.81	241.2	5.78					
LA1	7/9/02	10:50							249	ND	0.23	0.3	18
LA1	7/9/02	10:30	80	21.90	27.7	8.23	245.9	7.91					
LA1	8/12/02	10:45							613	ND	0.14	0.19	12
LA1	8/13/02	11:00	86	22.10	13.4	8.06	267.4	7.73					
LA1	9/17/02	10:45	69	17.10	70	7.86	267.1	7.81					
LA1	9/19/02								206	nd	0.13	0.18	11
LA1	10/10/02								126	ND	0.07	0.11	3
LA1	10/15/02	10:30	60	10.00	18	7.82	260.7	9.27					
LA1	11/12/02	11:00	66	11.30	11.2	7.18	95.6	7.92					
LA1	11/12/02								105	0.27	0.12	0.16	6
LA1	12/5/02								14	0.25	nd	0.06	3
LA1	12/10/02	10:15	50	6.60	8.14	7.9	211	11.14					
LA1	1/9/03								22	2.9	0.1	0.14	3
LA1	1/14/03	09:00	48	8.90	41.7	7.14	105.1	8.39					
LA1	2/5/03								20	2.4	0.12	0.14	5
LA1	2/11/03	10:40	44	6.8	7.17	7.62	203.1	9.89					
LA1	3/11/03	10:00	60	11.90	34.2	7.27	140.1	7.72					
LA1	3/20/03								613	1.6		0.2	
LA1	4/8/03	09:00	56	12.30	18	7.38	169.3	7.61					
LA1	4/14/03								1300	1.1		0.2	
LA1	5/13/03	10:30	65	16.60	15.3	7.3	222.3	7.24					
LA1	5/13/03								26	0.81		0.17	
LA1	6/9/03								326	0.24		0.26	
LA1	6/10/03	11:15	65	18.80	9.4	7.62	232.1	6.49					
LA1	7/7/03	11:00	93	22.30	8.12	7.49	263	6.08					
LA1	7/7/03								411	0.07		0.24	
LL1	9/2/99	16:30							11				
LL1	9/24/99	08:45		18.00	28.3	7.45	68.5	7.89					
LL1	10/13/99	11:40		15.20	31.1	7.55	67.8	8.96					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LL1	10/27/99	17:30							124				
LL1	11/12/99	10:45	55	11.20	78.5	7.25	67.5	9.95					
LL1	11/15/99	15:30							178	0.16		0.09	
LL1	12/16/99	10:45		8.70	59.5	6.85	62.2	9.37					
LL1	1/13/00	13:15	35	4.40	88	7.05	54.5	11.72					
LL1	2/10/00	12:00							18	0.46	0.06		7
LL1	2/11/00	08:25		8.00	20	6.99	98.4	10.14					
LL1	2/14/00	18:30							344	0.02	ND		26
LL1	3/16/00	11:20	52	10.00	17.6	7.35	77	10.7					
LL1	4/13/00	14:50	60	15.00	6.62	7.44	91.4	9.17					
LL1	4/26/00	15:45							35				
LL1	5/4/00	14:00							20				
LL1	5/10/00	19:15							64				
LL1	5/11/00	11:15		13.10	13.6	7	100.2	9.6					
LL1	5/11/00	11:45							344	0.07	ND		
LL1	5/23/00	14:00							14				
LL1	6/15/00	12:55	85	21.30	12.7	7.25	87	8.01					
LL1	7/13/00	08:13	58	20.00	6.98	7.62	125.1	7.51					
LL1	8/10/00	07:50	63	22.20	9.88	7.19	104	6.79					
LL1	8/14/00	17:40							16				8
LL1	9/11/00	18:30							16				
LL1	9/12/00	16:40							19				
LL1	9/13/00	14:00							26				
LL1	9/14/00	08:11	69	20.40	11.5	7.47	96.3	7.78					
LL1	9/14/00	14:50							29				
LL1	10/13/00	10:36	57	14.70	20.8	7.34	77.5	9.44					
LL1	11/10/00	12:00							134				
LL1	11/14/00	18:00							66	0.087	0.024		16
LL1	11/16/00	14:05	40	6.80	28	7.21	84.9	11.39					
LL1	11/20/00	13:40							8				
LL1	11/27/00	14:50							12				
LL1	12/4/00	09:20							16				
LL1	12/14/00	08:15	44	6.50	30.9	6.88	119.3	11.55					
LL1	12/26/00	10:40							770				
LL1	1/2/01	11:05							36				
LL1	1/8/01	10:50							44				
LL1	1/10/01	13:00	47	5.70	27.6	6.51	104.4	11.95					
LL1	1/12/01	10:20							96	0.74			12
LL1	1/22/01	09:45							105		0.04		
LL1	2/16/01	09:30	49	6.10	16.3	6.64	129.8	11.32					
LL1	3/15/01	08:15	45	10.8	18.3	md	125.4	10.63					
LL1	4/3/01	09:30							22	0.81	0.04	0.1	9
LL1	4/12/01	15:30	55	11.80	16	7.28	121	10.21					
LL1	4/20/01	10:55							13				
LL1	4/24/01	10:40							14				
LL1	4/30/01	08:40							26				
LL1	5/1/01	09:30							13	0.29	ND	0.1	7
LL1	5/10/01	09:30	62	16.40	9.46	7.47	131.4	8.46					
LL1	6/14/01	09:30	68	17.70	10.5	7.59	134.4	8.41					
LL1	6/14/01	12:20								0.56	ND	0.09	10
LL1	7/12/01	09:25	75	21.80	5.17	7.21	143.7	5.83					
LL1	7/30/01	15:00							72	0.24	ND	0.05	9
LL1	8/9/01	08:20	68	21.60	12.5	7.44	122.2	6.22					
LL1	8/20/01	11:50							68				
LL1	8/22/01	13:25							20				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LL1	8/23/01	13:40							135				
LL1	8/27/01	15:00							51	0.1	0.02	0.08	8
LL1	9/13/01	08:45	68	19.50	15.4	7.53	117.7	6.69					
LL1	9/17/01	13:40								ND	ND	0.09	14
LL1	10/18/01	09:00	50	11.90	19.7	7.33	124.4	6.89					
LL1	11/1/01	14:00							121	0.11	ND	0.22	24
LL1	11/15/01	08:00	60	11.90	66.9	7.46	97.6	9.32					
LL1	11/28/01	13:40							517	1.4	ND	0.15	39
LL1	11/29/01	13:58							2419				
LL1	12/5/01	09:30							649				
LL1	12/14/01	09:04	MD	8.20	121	6.81	72.1	10.27					
LL1	12/19/01	10:05							579				
LL1	1/8/02	10:45							602	0.47	0.12	0.18	36
LL1	1/10/02	08:30	49	9.20	51.1	7.1	60.9	9.42					
LL1	1/23/02	10:30							816				
LL1	2/14/02	07:30	32	6.80	26	7.15	80.8	10.37					
LL1	3/4/02	11:40								0.34	ND	ND	5
LL1	3/6/02	15:00							178				
LL1	3/14/02	07:30	42	7.90	45.3	7.34	70.4	10.07					
LL1	4/11/02	08:27	57	13.80	9.44	7.02	107.4	9.16					
LL1	4/11/02	10:15							178	0.77	ND	0.05	8
LL1	5/8/02	10:15							35	0.61	ND	0.02	7
LL1	5/16/02	09:00	60	16.40	6.97	7.4	115.8	9.72					
LL1	6/5/02	11:00							26	0.69	ND	0.08	13
LL1	6/13/02	08:15	68	20.70	7.72	7.33	116.4	6.94					
LL1	7/9/02	09:35							36	1.1	ND	0.02	6
LL1	7/11/02	08:15	78	22.30	5.95	7.29	135.2	6.77					
LL1	8/12/02	11:25							30	0.23	ND	0.04	7
LL1	8/15/02	08:00	65	21.80	5.63	7.45	106.6	6.76					
LL1	9/19/02	08:10	58	16.80	10.9	7.27	99.6	9.04					
LL1	9/19/02								114	0.21	nd	nd	8
LL1	10/10/02								118	0.13	ND	0.09	24
LL1	10/17/02	08:30	50	14.10	16.1	7.22	71.8	8.23					
LL1	11/12/02								93	0.19	nd	0.12	30
LL1	11/14/02	08:25	52	10.00	38	7.34	69	10.11					
LL1	12/5/02								4	0.65	0.04	0.13	10
LL1	12/12/02	08:10	54	6.90	36.1	7.15	104.8	10.74					
LL1	1/9/03								56	0.56	nd	0.13	18
LL1	1/16/03	12:00	58	8.00	45.6	7.28	64.1	10.24					
LL1	2/5/03								167	0.62	ND	0.13	26
LL1	2/13/03	10:20	47	7.3	19.1	7.04	105.7	9.96					
LL1	3/13/03	09:00	59	11.30	29.5	7.4	68.5	9.23					
LL1	3/20/03								26	0.75		0.08	
LL1	4/10/03	08:20	55	12.70	16.1	7.66	65.2	9.13					
LL1	4/14/03								291	0.29		0.08	
LL1	5/13/03								61	0.45		ND	
LL1	5/15/03	09:00	65	15.90	9.73	7.04	83.4	9.23					
LL1	6/9/03								56	0.83		0.03	
LL1	6/12/03	08:23	64	19.40	7.34	7.25	118.8	8.91					
LL1	7/7/03								102	1.2		ND	
LL1	7/10/03	08:15	70	21.70	6.08	7.16	141.2	7.48					
LL2	9/2/99	15:25							7				
LL2	10/14/99	09:20	11.5	14.40	30.1	7.54	63.9	9.42					
LL2	10/27/99	16:10							121				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LL2	11/11/99	09:00	15	11.10	97.7	7.54	66.5	9.69					
LL2	11/15/99	13:50							249	0.12		0.12	
LL2	12/15/99	09:00	51	8.30	76.1	7.16	52	10.61					
LL2	1/13/00	08:45	53	4.00	71.5	6.87	49.9	12.12					
LL2	2/9/00	15:00							5	0.13	0.05		7
LL2	2/10/00	09:30	42	7.90	20.7	7.16	69.9	10.72					
LL2	2/14/00	16:30							158	0.03	ND		11
LL2	3/16/00	08:45	49	10.00	17.5	7.09	54.4	10.37					
LL2	4/13/00	08:30	52	14.50	8.53	7.27	65.5	8.49					
LL2	4/26/00	14:10							91				
LL2	5/4/00	12:10							14				
LL2	5/10/00	18:20							185				
LL2	5/11/00	10:45	53	12.60	16.7	7.25	67.5	9.26					
LL2	5/11/00	10:45							272	0.03	ND		
LL2	5/23/00	14:45							2				
LL2	6/13/00	10:50	69	17.50	11.7	7.67	63	8.51					
LL2	7/11/00	10:00	66	20.40	13.2	7.49	71.9	7.1					
LL2	8/8/00	10:20	74	22.40	15.8	7.62	72.8	7.19					
LL2	8/14/00	15:30							194				6
LL2	9/11/00	16:40							5				
LL2	9/12/00	15:20							3				
LL2	9/12/00	10:00	68	19.10	15	7.67	76.6	7.63					
LL2	9/13/00	12:50							23				
LL2	9/14/00	15:30							10				
LL2	10/10/00	10:40	60	15.50	15.7	7.62	74.5	9.02					
LL2	11/9/00	15:35							201				
LL2	11/14/00	10:00	47	6.90	45	7.55	77.5	10.96					
LL2	11/14/00	16:30							11	0.065	0.025		1
LL2	11/20/00	12:35							23				
LL2	11/27/00	13:40							397				
LL2	12/4/00	10:30							15				
LL2	12/12/00	09:45	41	4.20	32	6.74	113.8	11.36					
LL2	12/26/00	11:50							921				
LL2	1/2/01	12:10							248				
LL2	1/8/01	12:00							260				
LL2	1/9/01	10:32	38	5.60	45.8	7.18	83.8	11.1					
LL2	1/12/01	11:40							84	0.38			16
LL2	1/22/01	11:00							27		0.04		
LL2	2/13/01	12:30	2.8	4.80	18.4	7.17	100.8	11.22					
LL2	3/13/01	09:30	52	9.80	12.1	7.33	93.8	9.74					
LL2	4/3/01	13:00							1	0.09	0.03	0.08	13
LL2	4/10/01	09:30	46	11.10	38.5	7.69	93.8	9.2					
LL2	4/20/01	12:10							3				
LL2	4/24/01	12:05							46				
LL2	4/30/01	12:15							23				
LL2	5/1/01	12:50							23	ND	ND	0.16	18
LL2	5/8/01	09:15	62	15.50	13.2	7.24	101.3	7.8					
LL2	6/12/01	09:55	md	16.40	27	7.82	98.2	7.6					
LL2	6/14/01	13:10								0.06	ND	0.15	20
LL2	7/10/01	10:00	68	21.80	22.2	7.33	101.3	6.44					
LL2	7/30/01	13:30							34	0.04	ND	0.06	19
LL2	8/7/01	10:00	70	22.40	23.7	7.34	98.2	6.5					
LL2	8/19/01	17:20							13				
LL2	8/22/01	12:05							50				
LL2	8/23/01	12:35							23				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
LL2	8/27/01	13:15							10	ND	ND	0.06	10
LL2	9/11/01	10:10	68	18.70	23.8	7.31	101	7.65					
LL2	10/16/01	11:10	67	14.90	24.2	7.56	105.8	8.55					
LL2	11/1/01	15:15							105	0.05	ND	0.23	21
LL2	11/13/01	10:00	52	10.60	76.3	7.36	98.7	9.62					
LL2	11/28/01	15:10							1553	0.84	ND	0.27	208
LL2	11/29/01	14:52							1203				
LL2	12/5/01	09:10							770				
LL2	12/11/01	09:25	43	6.40	64.6	7.04	80.1	10.96					
LL2	12/19/01	09:40							770				
LL2	1/8/02	09:30	57	10.10	60.3	7.01	54.2	9.55					
LL2	1/8/02	10:10							575	0.26	0.1	0.18	42
LL2	1/23/02	10:05							1046				
LL2	2/12/02	09:30	42	5.90	47.4	7.08	50.1	10.96					
LL2	3/4/02	11:05								0.26	ND	ND	3
LL2	3/7/02	09:15							>2419				
LL2	3/12/02	10:00	45	7.70	41.5	6.81	60	10.07					
LL2	4/9/02	10:15	55	13.70	6.17	7.41	62.5	8.54					
LL2	4/11/02	09:47							84	0.12	ND	0.02	6
LL2	5/8/02	09:45							16	ND	ND	ND	4
LL2	5/14/02	10:00	62	14.40	7.82	7.67	64.6	3.86					
LL2	6/5/02	10:30							68	0.04	ND	0.03	4
LL2	6/13/02	10:50	78	19.80	9.05	7.43	67.3	7.69					
LL2	7/9/02	09:05							54	0.02	ND	ND	4
LL2	7/9/02	09:30	71	20.40	5.47	7.35	72.4	5.65					
LL2	8/12/02	10:30							28	ND	ND	0.04	3
LL2	8/13/02	10:00	78	21.90	7.64	7.4	70.5	6.61					
LL2	9/17/02	09:00	69	18.50	18.8	7.4	81.2	6.72					
LL2	9/19/02								109	0.06	nd	nd	12
LL2	10/10/02								19	0.07	ND	0.05	12
LL2	10/15/02	09:30	66	14.20	15.6	7.19	70.2	8.9					
LL2	11/12/02	10:30	65	9.70	57.1	7.14	63.7	9.79					
LL2	11/12/02								109	0.08	nd	0.09	27
LL2	12/5/02								210	0.22	0.02	0.14	21
LL2	12/10/02	09:45	49	6.20	58.3	7.11	82	10.57					
LL2	1/9/03								68	0.39	nd	0.09	22
LL2	1/15/03	09:59	48	8.20	92.9	7.21	48.6	10.18					
LL2	2/5/03								199	0.27	ND	0.2	35
LL2	2/12/03	10:50	38	6.1	29.3	7.24	65.5	10.62					
LL2	3/12/03	08:45	55	10.20	23.6	7.18	55.5	10					
LL2	3/20/03								10	0.1		0.06	
LL2	4/9/03	10:05	59	12.20	13.9	6.8	53	9.68					
LL2	4/14/03								21	0.02		ND	
LL2	5/13/03								10	ND		ND	
LL2	5/14/03	09:00	67	14.00	11.8	7.18	58.1	9.14					
LL2	6/9/03								91	0.09		0.05	
LL2	6/11/03	10:10	64	19.50	22.9	7	64.4	7.14					
LL2	7/7/03								42	0.06		0.03	
LL2	7/9/03	09:35	71	21.50	17.1	7.44	65.8	6.99					
LL3	9/12/01	10:40	74	19.30	27.9	7.51	100.4	8.72					
LL3	9/17/01	15:45								ND	0.02	0.1	15
LL3	10/17/01	10:00	51	14.20	32.8	7.63	103.3	9.46					
LL3	11/1/01	13:25							107	0.04	ND	0.2	16
LL3	11/14/01	10:50	64	11.70	139	7.42	98.6	9.44					

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LL3	11/28/01	12:55							>2419	0.51	ND	0.23	170
LL3	11/29/01	13:30							1120				
LL3	12/5/01	08:50							1203				
LL3	12/12/01	08:40	46	6.50	43.9	7.13	62.4	10.12					
LL3	12/19/01	08:40							649				
LL3	1/8/02	09:52							756	0.18	0.09	0.13	40
LL3	1/9/02	10:10	52	9.90	53.7	6.9	47.6	10.33					
LL3	1/23/02	09:51							649				
LL3	2/13/02	10:00	43	6.40	48.1	7.25	47.4	10.92					
LL3	3/4/02	10:45								0.15	ND	0.02	10
LL3	3/7/02	08:10							56				
LL3	3/13/02	09:45	46	8.10	24.1	7.26	60.1	10.58					
LL3	4/10/02	10:00	55	13.60	5.8	7.41	53.6	7.7					
LL3	4/11/02	09:30							7	ND	ND	ND	5
LL3	5/8/02	09:30							15	ND	ND	ND	3
LL3	5/15/02	10:40	60	15.10	6.98	7.52	57.2	8.89					
LL3	6/5/02	10:15							34	0.02	ND	ND	3
LL3	6/12/02	09:50	77	18.70	7.46	7.72	61.9	7.85					
LL3	7/9/02	08:45							27	ND	ND	ND	6
LL3	7/10/02	09:50	85	21.80	5.81	7.43	65.7	7.17					
LL3	8/12/02	10:05							38	ND	ND	0.04	6
LL3	8/14/02	10:40	89	22.60	9.96	7.56	67.5	8.3					
LL3	9/19/02								6	nd	nd	0.02	16
LL3	9/23/02	09:50	68	18.40	30	7.26	69.2	7.98					
LL3	10/10/02								2	0.05	ND	0.06	13
LL3	10/16/02	09:55	61	14.50	15	7.33	70.4	8.09					
LL3	11/12/02								91	0.09	nd	0.12	42
LL3	11/13/02	10:10	58	9.90	50.7	7.27	66.1	10.2					
LL3	12/5/02								687	0.18	nd	0.21	62
LL3	12/11/02	09:00	48	6.50	130	7.28	76.3	10.43					
LL3	1/9/03								56	0.34	nd	0.12	27
LL3	1/15/03	10:30	52	8.20	117	7.12	56.7	10.61					
LL3	2/5/03								236	0.25	ND	0.2	36
LL3	2/12/03	10:00	41	6.9	53.4	7.4	52.3	10.47					
LL3	3/12/03	09:20	58	10.80	27.1	7.25	55.6	11.46					
LL3	3/20/03								23	0.03		0.04	
LL3	4/9/03	09:45	59	12.20	13.4	7.49	51	10.1					
LL3	4/14/03								13	ND		ND	
LL3	5/13/03								4	ND		ND	
LL3	5/14/03	08:40	65	15.20	10.2	7.19	55	9.53					
LL3	6/9/03								26	ND		ND	
LL3	6/11/03	09:25	64	19.10	28.3	7.31	60.1	6.77					
LL3	7/7/03								28	ND		ND	
LL3	7/9/03	08:45	68	22.00	13.2	7.23	62.7	7.1					
SC1	9/22/99	11:15	18.2	15.4	5.8	md	352.2	5.93					
SC1	10/13/99	08:15		9.4	7.1	7.63	375.5	5.4					
SC1	10/27/99	12:40							281				
SC1	11/10/99	10:00		10.1	11.1	7.83	165.7	7.3					
SC1	11/15/99	10:30							84	ND		0.12	
SC1	12/15/99	10:00		7.1	25.4	6.75	76.6	10.55					
SC1	1/12/00	10:42	39	4.1	72.0	5.75	56.1	11.24					
SC1	2/9/00	12:25							111	0.03	0.04		7
SC1	2/9/00	09:07	45	7.60	39	5.91	79.4	10.43					
SC1	2/14/00	13:05							659	ND	ND		135

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
SC1	3/15/00	09:00	44	6.80	27.9	7.18	89	11.27					
SC1	4/12/00	09:20	65	12.10	14.4	7.47	145.2	9.36					
SC1	4/26/00	10:25							79				
SC1	5/4/00	09:25							82				
SC1	5/10/00	09:27	50	10.80	37	7.82	135.4	9.41					
SC1	5/10/00	16:50							722				
SC1	5/11/00	16:00							722	ND	ND		
SC1	5/23/00	17:45							70				
SC1	6/14/00	09:50	67	16.60	12	7.48	188.6	7.85					
SC1	7/12/00	08:33	65	16.80	3.32	7.7	442.6	5.83					
SC1	8/9/00	10:00	75	19.20	5.91	7.3	481.4	4.89					
SC1	8/14/00	12:20							249				2
SC1	9/11/00	13:55							44				
SC1	9/12/00	13:10							33				
SC1	9/13/00	08:55	58	15.30	8.88	6.99	498	4.13					
SC1	9/13/00	10:00							48				
SC1	9/14/00	17:20							88				
SC1	10/11/00	09:30	md	10.80	45.5	7.31	512	4.16					
SC1	11/9/00	12:45							6				
SC1	11/14/00	11:30							135	0.054	0.084		4
SC1	11/15/00	09:50	48	3.20	5.19	6.45	287.7	8.47					
SC1	11/20/00	09:55							113				
SC1	11/27/00	11:05							138				
SC1	12/4/00	13:15							19				
SC1	12/13/00	09:05	44	3.90	11.4	MD	161.8	9.95					
SC1	12/26/00	14:35							70				
SC1	1/2/01	14:55							64				
SC1	1/8/01	14:15							37				
SC1	1/10/01	09:10	45	3.60	17.4	7.05	115.1	11.48					
SC1	1/12/01	14:20							55	0.06			1
SC1	1/22/01	13:15							139		0.03		
SC1	2/14/01	07:50	38	2.40	25.8	6.28	103.9	11.48					
SC1	3/14/01	09:45	48	7.80	17.2	7.17	124.8	10.24					
SC1	4/2/01	17:00							24	ND	ND	0.09	5
SC1	4/11/01	09:09	47	8.00	27.3	7.17	117.1	10.29					
SC1	4/20/01	15:00							51				
SC1	4/24/01	15:25							34				
SC1	4/30/01	15:50							77				
SC1	5/1/01	16:00							26	ND	ND	0.12	4
SC1	6/13/01	08:45	59	13.50	3.58	7.23	292.3	7.5		ND	ND	0.02	1
SC1	6/14/01	16:10								ND	ND	0.02	1
SC1	7/11/01	09:48	73	18.90	3.67	7.24	400.1	4.89					
SC1	7/30/01	10:15							228	ND	ND	ND	4
SC1	8/8/01	08:20	62	14.70	4.13	7.3	413.5	3.98					
SC1	8/19/01	14:10							86				
SC1	8/22/01	09:50							225				
SC1	8/23/01	10:35							178				
SC1	8/27/01	10:50							238	ND	ND	0.02	6
SC1	9/12/01	08:35	59	14.90	10.6	7.4	442.1	4.37					
SC1	9/17/01	10:32								ND	ND	0.12	30
SC1	10/16/01	09:05	56	10.40	19.3	7.46	475.9	4.95					
SC1	11/2/01	08:50							3	0.03	ND	0.09	7
SC1	11/14/01	09:15	60	10.50	11.6	7.44	366.4	6.29					
SC1	11/28/01	12:40							1553	0.15	0.02	0.2	30
SC1	11/29/01	10:25							>2419				

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
SC1	12/5/01	15:30							326				
SC1	12/12/01	09:08	44	6.50	19.6	7.12	78.5	10.6					
SC1	12/19/01	17:30							81				
SC1	1/8/02	12:30							344	0.1	0.17	0.09	23
SC1	1/9/02	08:50	50	7.50	36.3	7.2	68.4	10.14					
SC1	1/23/02	16:40							63				
SC1	2/13/02	09:10	38	4.00	22.8	7.45	74.6	11.11					
SC1	3/4/02	15:10								ND	ND	ND	3
SC1	3/7/02	13:50							260				
SC1	3/13/02	09:01	39	5.60	58.9	7.16	64.5	10.71					
SC1	4/10/02	09:15	54	11.30	37.3	7.54	107	9.12					
SC1	4/11/02	15:25							197	ND	ND	0.07	4
SC1	5/8/02	12:35							31	ND	ND	ND	3
SC1	5/14/02	10:10	65	12.40	11.5	7.61	155.5	8.73					
SC1	6/5/02	13:10							67	ND	0.02	ND	4
SC1	6/12/02	08:30	65	15.90	4.53	7.56	241.8	7.37					
SC1	7/9/02	15:00							29	ND	ND	ND	3
SC1	7/10/02	08:50	75	19.00	2.9	7.48	292.5	6.36					
SC1	8/12/02	15:10							24	ND	ND	0.02	5
SC1	8/14/02	08:30	70	18.60	4.46	7.5	330.3	5.09					
SC1	9/18/02	09:06	52	14.50	14.7	7.47	322.1	5.51					
SC1	9/19/02								1203	0.03	nd	nd	7
SC1	10/10/02								18	ND	ND	0.03	6
SC1	10/16/02	09:00	44	5.00	21	7.53	213.5	8.22					
SC1	11/12/02								>2419	0.03	nd	0.15	48
SC1	11/13/02	08:35	58	7.90	21.2	7.18	191.7	4.68					
SC1	12/5/02								156	nd	nd	0.03	4
SC1	12/11/02	09:00	48	5.80	9.35	7.45	136.7	11.8					
SC1	12/11/02												
SC1	1/8/03								34	0.13	nd	nd	5
SC1	1/15/03	09:15	42	7.50	29.4	7.34	69.7	10.12					
SC1	2/5/03								73	0.1	ND	0.03	4
SC1	2/12/03	08:30	26	3.2	16.9	7.7	86	10.32					
SC1	3/12/03	09:00	58	9.90	28.4	7.27	84.4	9.52					
SC1	3/20/03								60	ND		0.02	
SC1	4/9/03	09:50	55	11.40	21.5	7.39	94.7	9.31					
SC1	4/14/03								133	0.03		0.06	
SC1	5/13/03								46	ND		ND	
SC1	5/14/03	09:20	61	14.60	14.5	7.43	127.2	8.4					
SC1	6/9/03								45	ND		ND	
SC1	6/11/03	08:52	58	16.00	4.14	7.62	174.6	7.18					
SC1	7/7/03								82	ND		ND	
SC1	7/9/03	09:25	68	17.60	3.97	7.31	253.6	5.39					
SC2	9/2/99	DRY CREEK											
SC2	10/2/99	DRY CREEK											
SC2	11/10/99	08:50		9.9	18.4	7.60	128.5	8.38					
SC2	11/15/99	11:00							27	ND		ND	
SC2	12/15/99	09:10		7.4	28.0	6.50	66.6	10.04					
SC2	1/12/00	09:55	43	4.7	72.0	6.11	47.6	11.25					
SC2	2/9/00	08:35	45	7.40	37.7	6.34	68.3	10.29					
SC2	2/9/00	12:40							35	ND	0.09		6
SC2	2/14/00	13:20							67	ND	ND		20
SC2	3/15/00	08:20	41	6.30	31.1	7.4	74.8	11.35					
SC2	4/12/00	08:30	60	11.00	23	7.25	117.4	9.03					

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conduc-tivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
SC2	4/26/00	10:45							88				
SC2	5/4/00	09:45							105				
SC2	5/10/00	08:55	50	10.00	36.1	7.29	109.5	9.87					
SC2	5/10/00	17:00							416				
SC2	5/11/00	15:45							479	ND	ND		
SC2	5/23/00	17:30							479				
SC2	6/14/00	07:55	63	15.10	18.4	6.96	142.3	6.99					
SC2	7/12/00	08:06	63	15.40	6.76	7.5	212.3	5.71					
SC2	10/11/00	08:50	DRY CREEK										
SC2	11/9/00	13:00							501				
SC2	11/14/00	11:00							56	0.027	0.019		1
SC2	11/15/00	08:40	38	4.00	5.18	6.46	154.8	8.37					
SC2	11/20/00	10:10							214				
SC2	11/27/00	11:20							236				
SC2	12/4/00	13:05							76				
SC2	12/13/00	08:35	44	4.40	12.7	MD	146.3	8.81					
SC2	12/26/00	14:20							225				
SC2	1/2/01	14:40							124				
SC2	1/8/01	14:00							96				
SC2	1/10/01	08:30	34	4.10	25.6	6.55	101.3	9.9					
SC2	1/12/01	14:05							82	0.04			1
SC2	1/22/01	13:00							68		0.03		
SC2	2/14/01	07:15	38	2.10	30.9	6.7	90.1	11.29					
SC2	3/14/01	08:15	50	7.40	23.7	6.83	113.2	9.01					
SC2	4/2/01	17:15							53	ND	ND	0.06	3
SC2	4/11/01	08:35	46	7.30	22.1	6.97	108	10.02					
SC2	4/20/01	14:45							50				
SC2	4/24/01	15:10							18				
SC2	4/30/01	15:40							63				
SC2	5/1/01	15:45							41	ND	ND	0.11	4
SC2	5/9/01	09:10	57	12.70	15.1	7.05	142.4	6.75					
SC2	6/13/01	08:18	57	12.30	9.23	6.89	183.3	6.18					
SC2	6/14/01	16:00								ND	ND	0.05	6
SC2	7/11/01	09:15	72	17.60	4.57	6.94	225.8	2.09					
SC2	8/8/01												
SC2	9/12/01	08:20											
SC2	10/16/01												
SC2	11/2/01	08:00							137	ND	ND	0.09	2
SC2	11/14/01	08:45	62	10.00	3.47	6.72	141.5	5.88					
SC2	11/28/01	12:55							770	0.06	ND	0.17	34
SC2	11/29/01	10:15							980				
SC2	12/5/01	15:15							137				
SC2	12/12/01	08:40	45	6.80	19.2	7.03	66.5	10.06					
SC2	12/19/01	17:15							51				
SC2	1/8/02	12:45							68	0.07	0.09	0.04	15
SC2	1/9/02	08:22	38	7.80	38.5	7.12	57	10.19					
SC2	1/23/02	16:55							26				
SC2	2/13/02	08:40	33	4.30	24.6	7.41	62	11.16					
SC2	3/4/02	14:55								ND	ND	ND	2
SC2	3/7/02	14:02							75				
SC2	3/13/02	08:18	38	6.00	68.2	7.32	54.6	11.23					
SC2	4/10/02	08:45	54	10.30	35	7.22	87.8	9.3					
SC2	4/11/02	15:00							152	ND	ND	0.04	5
SC2	5/8/02	12:20							23	ND	ND	ND	5
SC2	5/14/02	09:45	64	10.20	13.3	7.22	112.2	8.43					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
SC2	6/5/02	12:50							52	ND	0.02	0.02	6
SC2	6/12/02	08:00	70	13.80	18.8	7.03	135.5	6.1					
SC2	7/9/02	14:30							88	ND	ND	ND	4
SC2	7/10/02	08:25	70	17.40	4.63	6.99	169.3	5.47					
SC2	8/12/02	15:00											
SC2	8/15/02	DRY											
SC2	9/18/02	DRY											
SC2	10/16/02	DRY											
SC2	11/12/02								114	nd	nd	0.04	3
SC2	11/13/02	08:00	45	8.30	17	6.63	114.5	6.73					
SC2	12/5/02								91	nd	nd	nd	nd
SC2	12/11/02	08:27	46	6.40	20.9	6.97	106.3	8.7					
SC2	1/8/03								15	0.11	nd	nd	3
SC2	1/15/03	08:43	42	7.70	30	7.16	59.9	9.73					
SC2	2/5/03								30	0.07	ND	ND	4
SC2	2/12/03	08:00	26	3.6	28.4	7.46	71.4	10.65					
SC2	3/12/03	08:30	59	9.40	33.6	7.1	70.3	10.81					
SC2	3/20/03								49	ND		ND	
SC2	4/9/03	09:20	55	10.30	28.1	7.16	78.3	10.08					
SC2	4/14/03								64	0.04		0.06	
SC2	5/13/03								89	ND		ND	
SC2	5/14/03	08:45	58	12.10	16.9	7.32	97.9	8.12					
SC2	6/9/03								51	ND		ND	
SC2	6/11/03	08:22	59	14.10	15.7	7.2	105	6.57					
SC2	7/7/03								145	ND		0.03	
SC2	7/9/03	09:05	66	15.90	5.16	7.08	160.4	5.68					
UA1	9/3/99	10:10							727				
UA1	9/22/99	08:45		md	19.3	md	md	4.39					
UA1	10/14/99	08:45	14.5	12.90	15.2	7.43	285.8	5.66					
UA1	10/27/99	12:00							2419				
UA1	11/11/99	10:00	16	12.50	21.2	7.32	152.7	7.94					
UA1	11/15/99	10:00							326	0.59		0.09	
UA1	12/16/99	09:40	54	9.60	27.7	7.14	99.3	9.5					
UA1	1/13/00	09:00	38	5.50	54.1	7.07	67.9	11.02					
UA1	2/9/00	11:45							86	0.14	0.11		9
UA1	2/10/00	08:45	42	8.10	22	7.47	161.6	9.68					
UA1	2/14/00	12:30							914	0.05	0.04		60
UA1	3/16/00	09:00	55	9.50	22.1	7.16	111.3	9.54					
UA1	4/13/00	08:50	52	13.00	127	7.12	68.6	7.8					
UA1	4/26/00	09:50							129				
UA1	5/4/00	08:40							870				
UA1	5/10/00	09:35							1011				
UA1	5/11/00	09:15	47	9.40	64.8	7.28	85	9.3					
UA1	5/11/00	09:45							870	0.17	ND		
UA1	5/23/00	18:00							479				
UA1	6/15/00	09:30	64	21.40	9.71	7.45	284.9	4.05					
UA1	7/14/00	09:30	65	22.20	38.8	7.76	278	5.41					
UA1	8/8/00	09:00	74	22.40	54.2	7.6	262.9	4.81					
UA1	8/14/00	11:10							1730				38
UA1	9/11/00	13:10							613				
UA1	9/12/00	17:20							378				
UA1	9/13/00	09:30							457				
UA1	9/14/00	09:20	70	21.20	25	7.63	275.2	5.68					
UA1	9/14/00	10:00							479				

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UA1	10/12/00	10:30	md	12.60	15.5	md	211.4	6.19					
UA1	11/9/00	11:40							>2419				
UA1	11/14/00	12:10							228	0.266	0.032		10
UA1	11/16/00	08:30	34	3.40	29.6	7.67	307.7	9.7					
UA1	11/20/00	09:30							411				
UA1	11/27/00	10:40							1414				
UA1	12/4/00	13:40							69				
UA1	12/20/00	08:30	45	7.30	16.5	7.15	248.3	10.27					
UA1	12/26/00	15:00							141				
UA1	1/2/01	15:15							54				
UA1	1/8/01	14:40							649				
UA1	1/11/01	09:00	43	4.50	23.3	7.44	252.3	10.28					
UA1	1/12/01	14:45							123	0.46			14
UA1	1/22/01	13:40							285		0.06		
UA1	2/15/01	08:30	53	4.60	21.4	7.88	235.5	10.93					
UA1	3/15/01	09:00	46	9.30	37.6	7.75	293.5	8.02					
UA1	4/3/01	14:50							121	0.2	0.03	0.14	10
UA1	4/11/01	08:30	42	8.40	19.2	7.7	169.5	9.91					
UA1	4/20/01	15:45							397				
UA1	4/24/01	15:45							16				
UA1	4/30/01	19:10							629				
UA1	5/1/01	16:25							134	0.15	0.03	0.17	14
UA1	5/10/01	08:45	48	14.30	12.8	7.53	359.8	4.23					
UA1	6/14/01	16:30								0.12	0.08	0.22	35
UA1	7/12/01	08:30	65	22.70	55.3	7.83	327.3	6.2					
UA1	7/30/01	09:45							>2419	0.39	0.04	0.14	22
UA1	8/9/01	08:30	72	21.10	14.4	7.78	325.9	4.55					
UA1	8/19/01	13:30							110				
UA1	8/22/01	09:21							276				
UA1	8/23/01	10:10							>2419				
UA1	8/27/01	10:20							365	ND	0.04	0.13	9
UA1	9/13/01	08:40	61	17.00	23.4	7.62	190.7	6.39					
UA1	9/17/01	09:51								ND	0.06	0.13	20
UA1	10/18/01	08:40	44	9.40	19.5	7.53	206.8	8.13					
UA1	11/1/01	12:50							416	1.1	0.05	0.13	8
UA1	11/15/01	08:30	66	12.60	9.18	7.35	220	6.7					
UA1	11/28/01	12:15							>2419	0.43	0.04	0.2	50
UA1	11/29/01	13:10							1986				
UA1	12/5/01	08:25							727				
UA1	12/13/01	10:00	50	8.80	5.39	7.38	161.1	9.41					
UA1	12/19/01	08:15							435				
UA1	1/8/02	09:05							659	0.32	0.17	0.18	16
UA1	1/10/02	08:30	42	7.70	18.6	7.47	155.2	10.2					
UA1	1/23/02	09:12							214				
UA1	2/14/02	08:30	34	4.30	19.9	7.59	168.4	11.3					
UA1	3/4/02	10:20								0.12	ND	ND	9
UA1	3/7/02	09:54							756				
UA1	3/14/02	08:30	41	7.00	519	7.55	132.6	10.51					
UA1	4/11/02	11:00	58	14.30	15.2	7.74	200.6	8.81					
UA1	4/11/02	09:00							276	0.15	ND	0.07	10
UA1	5/8/02	09:00							84	0.07	ND	0.05	8
UA1	5/15/02	11:35	61	15.80	6.74	7.66	353.6	7.1					
UA1	6/5/02	09:50							190	0.07	0.06	0.13	11
UA1	6/13/02	09:30	70	21.40	13.5	7.7	357.5	4.87					
UA1	7/9/02	08:15							>2419	ND	0.07	0.13	7

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UA1	7/11/02	08:15	69	22.20	9.44	8.21	319.1	3.88					
UA1	8/12/02	15:40							>2419	ND	0.05	0.14	9
UA1	8/15/02	08:30	62	22.80	14.5	7.75	325.7	5.18					
UA1	9/19/02	10:00	70	16.60	10.8	7.13	230.4	2.83					
UA1	9/19/02								579	0.24	0.1	0.11	5
UA1	10/10/02								240	0.16	0.05	0.08	3
UA1	10/17/02	08:35	48	11.10	5.34	7.46	341.4	7.17					
UA1	11/12/02								1300	0.76	0.06	0.14	10
UA1	11/13/02	08:30	51	11.00	9.64	7.24	240.3	6.03					
UA1	12/5/02								>2419	0.4	0.07	0.19	21
UA1	12/12/02	08:30	62	9.50	12.1	7.48	203.3	7.49					
UA1	1/9/03								52	0.57	nd	0.08	11
UA1	1/16/03	09:30	46	7.90	36.3	7.51	159	9.9					
UA1	2/5/03								>2419	0.53	0.07	0.12	12
UA1	2/13/03	08:15	51	6.3	54.3	7.5	263.1	10.02					
UA1	3/13/03	08:30	59	10.60	22.4	7.37	176.5	9.31					
UA1	3/20/03								84	0.31		0.04	
UA1	4/10/03	08:20	51	12.50	11	7.44	193.5	7.69					
UA1	4/14/03								222	0.34		0.12	
UA1	5/13/03								67	0.13		ND	
UA1	5/15/03	08:25	51	15.00	8.37	7.48	305.4	5.62					
UA1	6/9/03								77	0.08		0.08	
UA1	6/12/03	08:30	56	17.90	8.69	7.35	328.3	3.64					
UA1	7/7/03								291	ND		0.08	
UA1	7/10/03	08:16	64.5	22.10	7.03	7.48	325.1	3.45					
UL1	9/2/99	13:20							121				
UL1	9/21/99	12:00		md	5.2	md	md	7.9					
UL1	10/13/99	10:00		10.8	4.2	7.27	58.5	9.35					
UL1	10/27/99	14:45							166				
UL1	11/10/99	10:30		10.3	9.2	6.46	62.8	8.8					
UL1	11/15/99	12:15							50	0.25		0.1	
UL1	12/15/99	10:00	50	8.6	28.0	6.93	35.2	10.12					
UL1	1/12/00	11:15	34	6.2	22.0	7.12	34.4	9.86					
UL1	2/9/00	10:25	48	8.30	8.47	7.08	37.1	10.56					
UL1	2/9/00	13:40							19	0.17	0.04		8
UL1	2/14/00	15:00							101	ND	ND		18
UL1	3/15/00	10:00	45	8.10	8.73	6.57	39.4	10.42					
UL1	4/12/00	12:00	67	13.20	5.26	6.98	46.6	9.39					
UL1	4/26/00	12:30							66				
UL1	5/4/00	10:50							64				
UL1	5/10/00	10:15	48	11.00	19.3	7.01	47.3	9.51					
UL1	5/10/00	10:45							961				
UL1	5/11/00	14:50							756	0.06	ND		
UL1	5/23/00	16:05							39				
UL1	6/14/00	11:15	81	15.90	9.6	7.03	48.7	8.47					
UL1	7/12/00	11:20	74	17.40	5.79	7.06	45.6	8.5					
UL1	8/9/00	11:00	68	20.10	5.93	7.23	62	7.19					
UL1	8/14/00	14:00							40				2
UL1	9/11/00	15:15							75				
UL1	9/12/00	13:55							96				
UL1	9/13/00	10:55	73	16.80	4.8	7.28	63.3	8.88					
UL1	9/13/00	11:15							51				
UL1	9/14/00	16:50							141				
UL1	10/10/00	09:50	53	11.40	9.72	6.95	67	8.75					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conduc-tivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UL1	11/9/00	14:15							30				
UL1	11/14/00	13:15							7	0.049	0.022		4
UL1	11/14/00	09:46	37	3.70	5.95	6.21	70.9	12.33					
UL1	11/20/00	11:20							111				
UL1	11/27/00	12:25							54				
UL1	12/4/00	11:55							28				
UL1	12/12/00	13:45	41	4.10	6.59	7.1	66.3	10.7					
UL1	12/26/00	13:20							17				
UL1	1/2/01	13:45							12				
UL1	1/8/01	12:55							68				
UL1	1/9/01	09:36	35	5.60	6.21	5.8	54.2	11.82					
UL1	1/12/01	12:55							16	0.2			2
UL1	1/22/01	12:00							20		0.03		
UL1	2/13/01	09:45	36	4.70	7.68	6.52	50.5	11.52					
UL1	3/13/01	09:50	53	8.00	6.32	6.8	50.9	10.1					
UL1	4/3/01	14:40							9	0.19	ND	0.07	4
UL1	4/10/01	09:54	46	8.50	8.45	6.76	50.2	10.73					
UL1	4/20/01	13:30							19				
UL1	4/24/01	13:20							16				
UL1	4/30/01	13:40							56				
UL1	5/1/01	14:30							228	0.05	0.09	0.25	8
UL1	5/8/01	10:00	65	13.30	5.48	7.21	60.1	8.73					
UL1	6/12/01	09:52	58	14.30	7.15	7.09	58.5	8.62					
UL1	6/14/01	14:30								0.09	ND	0.05	4
UL1	7/10/01	12:30	71	20.00	54.7	7.05	60.7	7.63					
UL1	7/30/01	11:40							121	0.12	ND	0.02	3
UL1	8/9/01	09:45	78	20.40	4.33	7.28	63.5	6.81					
UL1	8/19/01	15:50							58				
UL1	8/22/01	10:30							132				
UL1	8/23/01	11:20							192				
UL1	8/27/01	11:40							62	0.04	ND	0.02	2
UL1	9/11/01	10:09	68	16.30	6.07	7.12	65.6	7.49					
UL1	9/17/01	11:45								0.07	0.04	0.08	10
UL1	10/16/01	10:12	58	11.20	4.7	7.26	59.7	8.72					
UL1	11/1/01	16:30							64	0.1	ND	0.05	4
UL1	11/13/01	10:14	53	8.70	4.82	7.21	74.7	9.49					
UL1	11/28/01	13:50							91	0.56	ND	0.05	12
UL1	11/29/01	11:00							461				
UL1	12/5/01	14:05							172				
UL1	12/11/01	10:06	46	7.50	7.97	6.84	42.5	10.89					
UL1	12/20/01	07:45							19				
UL1	1/8/02	10:00	64	9.70	22.7	6.67	37.3	10.52					
UL1	1/8/02	13:30							122	0.35	0.09	0.07	32
UL1	1/23/02	15:50							31				
UL1	2/12/02	10:00	40	6.80	8.25	6.92	40.9	11.23					
UL1	3/4/02	13:30								0.17	ND	ND	4
UL1	3/7/02	15:05							74				
UL1	3/12/02	10:20	52.5	8.30	53.8	6.72	34.9	10.77					
UL1	4/9/02	10:03	55	11.40	9.72	7.07	45.2	9.49					
UL1	4/11/02	13:45							130	0.12	ND	0.03	7
UL1	5/8/02	11:05							20	0.06	ND	ND	4
UL1	5/14/02	10:10	62	11.80	6.34	7.19	45.8	10.11					
UL1	6/5/02	11:45							39	0.06	ND	ND	5
UL1	6/11/02	10:11	69	14.60	6.26	7.1	49	8.87					
UL1	7/9/02	11:10	79	19.70	5.61	7.33	53.7	7.89					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conduc-tivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UL1	7/9/02	11:10							20	0.04	ND	ND	2
UL1	8/12/02	13:30							41	0.04	ND	0.04	5
UL1	8/13/02	09:25	80	19.50	5.6	7.26	61.2	6.71					
UL1	9/17/02	09:45	63	16.10	9.62	7.12	75.2	7.65					
UL1	9/19/02								132	0.05	nd	0.04	6
UL1	10/10/02								31	0.06	ND	ND	3
UL1	10/15/02	10:20	50	7.50	5.13	7.18	58.6	9.73					
UL1	11/12/02	09:50	56	9.50	12.4	7.17	69.9	9.58					
UL1	11/12/02								91	0.79	0.08	0.13	7
UL1	12/5/02								24	0.36	0.07	0.09	3
UL1	12/10/02	09:50	48	5.50	18.9	7.13	67.4	10.57					
UL1	1/8/03								15	0.36	ND	ND	11
UL1	1/13/03	09:50	52	8.60	12.7	6.73	39.9	9.63					
UL1	2/5/03								25	0.28	ND	ND	10
UL1	2/11/03	10:00	40	6	8.43	6.9	41.4	10.52					
UL1	3/11/03	09:57	60	10.50	12.6	6.98	39.6	9.84					
UL1	3/20/03								14	0.23		ND	
UL1	4/8/03	09:45	58	10.10	10.1	6.98	39.8	9.62					
UL1	4/14/03								21	0.18		ND	
UL1	5/13/03	09:50	66	11.80	10.8	7.44	41.6	9.44					
UL1	5/13/03								199	0.14		ND	
UL1	6/9/03								74	0.05		ND	
UL1	6/10/03	10:10	65	15.60	7.55	7.35	47.4	8.22					
UL1	7/7/03								20	0.07		ND	
UL1	7/8/03	10:00	68	18.20	5.54	7.53	51.7	7.91					
UL2	9/2/99	14:45							276				
UL2	9/21/99	11:00		md	11.3	md	md	8.73					
UL2	10/13/99	11:50		9.50	5.14	7.33	54.3	10.21					
UL2	10/27/99	15:45							2419				
UL2	11/9/99	09:00	9.3	9.00	7.02	7.78	51.7	9.09					
UL2	11/15/99	13:15							199	0.19		ND	
UL2	12/14/99	10:45	44	8.00	23.2	6.98	39.9	10.55					
UL2	1/11/00	10:00	5	7.80	27.7	8.06	36.9	10.51					
UL2	2/8/00	11:30	51	8.90	6.22	7.82	37.8	9.9					
UL2	2/9/00	14:30							7	0.18	ND		3
UL2	2/14/00	16:00							23	ND	ND		14
UL2	3/14/00	12:00	49	8.50	6.76	6.9	40.1	10.69					
UL2	4/11/00	12:30	65	10.00	5.62	7.15	43.5	10.43					
UL2	4/26/00	13:30							31				
UL2	5/4/00	11:40							84				
UL2	5/10/00	12:10							260				
UL2	5/10/00	11:20		9.20	13.9	6.93	32.4	10.14					
UL2	5/11/00	14:00							457	0.05	ND		
UL2	5/23/00	15:20							56				
UL2	6/14/00	09:30	65	13.30	6.32	7.14	49.6	9.29					
UL2	7/12/00	12:10	70	14.70	4.49	7.44	41.2	8.86					
UL2	8/9/00	10:00	65	16.50	4.69	7.39	54.4	8.48					
UL2	8/14/00	15:00							166				1
UL2	9/11/00	16:00							629				
UL2	9/12/00	14:45							238				
UL2	9/13/00	10:15	61	14.10	5.12	7.33	58.1	8.68					
UL2	9/13/00	12:20							166				
UL2	9/14/00	16:05							162				
UL2	10/11/00	11:00	56	10.30	10.5	7.11	42	9.9					

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Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UL2	11/9/00	15:05							79				
UL2	11/14/00	15:40							71	0.099	0.012		14
UL2	11/15/00	11:30	42	3.50	5.38	6.98	58.8	13.58					
UL2	11/20/00	12:10							12				
UL2	11/27/00	13:15							82				
UL2	12/4/00	11:00							7				
UL2	12/13/00	10:10	43	4.30	12.1	6.86	56.4	11.11					
UL2	12/26/00	12:25							14				
UL2	1/2/01	12:40							29				
UL2	1/8/01	12:25							25				
UL2	1/10/01	10:15	38	5.00	5.85	7.16	50.6	13.39					
UL2	1/12/01	12:25							30	0.19			nd
UL2	1/22/01	11:30							23		nd		
UL2	2/14/01	10:30	39	3.30	4.61	6.65	50.8	12.7					
UL2	3/14/01	10:30	48	7.40	6.4	7.24	50.5	11.73					
UL2	4/3/01	13:35							12	0.23	ND	0.06	2
UL2	4/11/01	12:30	48	8.50	7.4	7.12	51	md					
UL2	4/20/01	12:40							11				
UL2	4/24/01	12:35							54				
UL2	4/30/01	12:45							138				
UL2	5/1/01	13:25							40	0.12	ND	0.07	3
UL2	5/9/01	10:00	54	11.20	5.4	7.32	39	11.32					
UL2	6/13/01	10:15	60	10.40	6.96	7.6	51.8	10.04					
UL2	6/14/01	13:30								0.2	ND	0.04	2
UL2	7/11/01	10:00	67	16.30	4.67	8.18	56.1	8.28					
UL2	7/30/01	12:35							416	0.14	ND	0.03	2
UL2	8/8/01	10:30	66	15.50	87.9	6.94	57.7	8.5					
UL2	8/19/01	16:55							144				
UL2	8/22/01	11:30							500				
UL2	8/23/01	12:05							525				
UL2	8/27/01	12:40							299	0.21	ND	ND	1
UL2	9/12/01	10:20	60	13.90	5.79	7.36	59.7	8.55					
UL2	9/17/01	13:00								0.15	0.02	0.04	2
UL2	10/17/01	10:00	45	7.20	46.9	7.22	56.3	10.45					
UL2	11/1/01	15:40							105	0.36	ND	0.04	2
UL2	11/14/01	11:20	60	10.40	18.7	7.09	53.7	9.17					
UL2	11/28/01	14:45							488	0.7	ND	0.23	101
UL2	11/29/01	11:45							54				
UL2	12/5/01	13:10							20				
UL2	12/12/01	09:40	43	7.50	6.36	6.84	42	11.15					
UL2	12/20/01	08:30							17				
UL2	1/8/02	09:45	45	8.80	12	6.75	41.6	10.48					
UL2	1/8/02	14:30							14	0.38	0.12	ND	20
UL2	1/23/02	14:55							15				
UL2	2/13/02	09:45	34	6.30	5.23	6.81	40.2	11.18					
UL2	3/4/02	12:30								0.16	ND	ND	1
UL2	3/7/02	08:45							58				
UL2	3/13/02	09:40	40	7.40	18.1	6.98	39.9	10.86					
UL2	4/10/02	09:50	51	9.90	8.58	7.1	44	10.64					
UL2	4/11/02	12:00							28	0.11	ND	ND	3
UL2	5/8/02	09:45							70	0.09	ND	ND	2
UL2	5/15/02	09:35	49	9.20	4.76	7.29	45.9	10.7					
UL2	6/5/02	10:25							579	0.12	ND	ND	3
UL2	6/12/02	09:55	68	13.90	5.77	7.24	50.2	9.03					
UL2	7/9/02	12:10							113	0.12	ND	ND	2

Appendix A. Long Tom Watershed Baseline Water Quality Dataset: September 1999- July 2003.

Site	Date	Time	Air temp - F	H2O temp- C	Turb (NTU)	pH (s.u.)	Conductivity (uS/cm)	Dis. oxygen (mg/L)	<i>E. coli</i> (MPN/ 100 mL)	Nitrate (mg/L)	ORTHO-P04 (mg/L)	TP (mg/L)	TSS (mg/L)
UL2	7/10/02	09:45	64	16.00	4.93	7.29	50.6	8.27					
UL2	8/12/02	12:25							285	0.22	ND	ND	2
UL2	8/14/02	09:50	67	16.40	6.85	7.12	56.1	8.68					
UL2	9/18/02	09:50	53	13.00	8.1	7.11	56.4	9.07					
UL2	9/19/02								225	0.15	nd	nd	1
UL2	10/10/02								105	0.07	ND	ND	ND
UL2	10/16/02	10:20	65	6.70	5.46	6.91	54.4	11.07					
UL2	11/12/02								260	0.71	nd	nd	3
UL2	11/13/02	10:15	51	9.00	10.4	7.18	59.7	10.18					
UL2	12/5/02								133	0.05	nd	nd	1
UL2	12/11/02	10:00	50	6.00	15.4	7.19	53.1	10.68					
UL2	1/8/03								6	0.32	nd	nd	6
UL2	1/15/03	10:30	45	8.30	6.54	6.9	41	10.8					
UL2	2/5/03								5	0.28	ND	ND	6
UL2	2/12/03	09:50	32	5.1	4.26	6.96	40.6	12.57					
UL2	3/12/03	09:45	56	9.70	8.74	7.17	45.5	12.14					
UL2	3/20/03								67	0.33		ND	
UL2	4/9/03	09:45	48	9.40	6.65	6.52	42.3	14.5					
UL2	4/14/03								14	0.22		ND	
UL2	5/13/03								99	0.22		ND	
UL2	5/14/03	09:40	MD	10.40	4.97	7.15	44.4	11.25					
UL2	6/9/03								131	0.1		ND	
UL2	6/11/03	09:45	58	12.80	5.36	7.64	47.5	9.6					
UL2	7/7/03								130	0.17		ND	
UL2	7/10/03	09:00	63	14.80	5.07	7.38	48.5	8.63					
error= data significantly out of range, or error in data recoring, equipment calibration, or accuracy check													
md= missing data													
ND= not detectable													
TP= total phosphorus													
TSS= total suspended solids													
Method Detection Limits													
<i>E. coli</i> = 0													
Ortho-PO4 = 0.02 mg/L													
TP= 0.02 mg/L													
NO3-NO2 = 0.02 mg/L													
TSS = 1 mg/L													

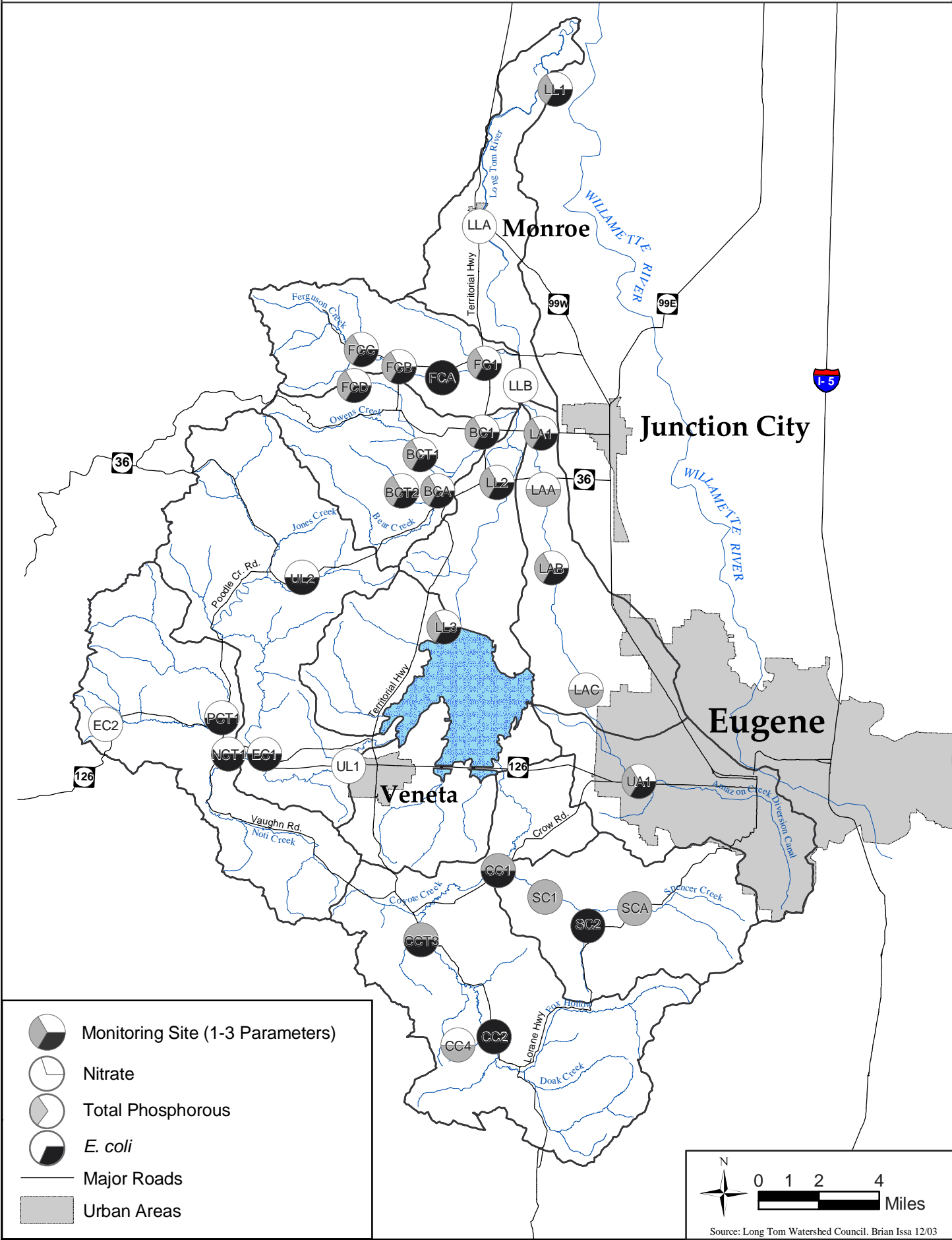
APPENDIX B:
DEQ Data Quality Levels for Precision and Accuracy

(not available digitally)

Appendix C. Stream Flow Data

Site	Site ID	Date	Time	Meter Used	Number of Measurements	Total width (ft.)	Avg. Depth (ft.)	Total Flow (cfs)
Bear Cr. at Territorial Hwy.	BC1	08/16/00	10:30	Pygmy	17	11	0.32	5.8
Bear Cr. at Territorial Hwy.	BC1	01/19/01	13:30	A	25	13	0.70	16.2
Bear Cr. at Templeton Rd.	BC2	01/24/01	11:00	A	16	16	1.84	0.0
Coyote Cr. at Petzold Rd.	CC1	08/25/00	11:30	A	18	10	0.43	10.6
Coyote Cr. at Petzold Rd.	CC1	05/25/01	11:00	A	19	21	2.55	33.4
Coyote Cr. at Powell Rd.	CC2	08/25/00	15:00	Pygmy	9	5.5	0.27	2.1
Coyote Cr. off Hamm Rd.	CC3	08/25/00	14:30	Pygmy	6	4	0.47	0.0
Coyote Cr. off Hamm Rd.	CC3	01/23/01	14:00	A	10	4.5	0.68	0.1
Coyote Cr. at Kirk Pond	CCK	09/22/00	12:00	A	29	17.7	1.27	47.3
Elk Cr. at Vaughan Rd.	EC1	10/11/00	13:40	A	21	23	0.73	53.7
Elk Cr. at Vaughan Rd.	EC1	05/30/01	12:30	A	18	20	1.32	81.3
Tributary of Elk Cr.	EC2	10/11/00	14:25	A	9	4.1	0.55	1.8
Ferguson Cr. at Territorial Hwy.	FC1	08/16/00	11:50	A	20	21	0.83	25.5
Ferguson Cr. at Ferguson Rd.	FC2	08/16/00	12:50	A	16	13	0.34	7.2
Lower Amazon at High Pass Rd.	LA1	08/16/00	15:30	A	20	17	0.45	21.5
Lower Amazon at High Pass Rd.	LA1	01/09/01	11:30	Pygmy	24	18.5	0.61	14.2
Spencer Cr. at Pinegrove Rd.	SC1	08/25/00	12:00	A	13	15	1.57	0.0
Spencer Cr. at Summerville Rd.	SC2	01/24/01	14:30	A	24	16	2.85	8.6
Upper Amazon at Danebo Ave.	UA1	08/25/00	16:00	A	19	26	0.83	15.9
Upper Amazon at Danebo Ave.	UA1	12/20/00	12:00	A	31	34	0.95	8.8
Upper Long Tom @ Hwy 126	UL1	10/11/00	11:45	A	23	26.7	1.71	257.6
Upper Long Tom @ Hwy 126	UL1	05/30/01	14:30	A	34	26	1.93	339.2
Upper Long Tom at Alderwood State Park	UL2	09/22/00	14:30	A	29	31.8	0.68	46.2
Note: Sites with zero flow had standing water that was moving too slowly to measure with a pygmy or AA meter.								

Long Tom Watershed Monitoring Sites (11/03-2/04)



Source: Long Tom Watershed Council. Brian Issa 12/03