

CHATFIELD WATERSHED

**1997 WATER QUALITY
DATA PACKET**

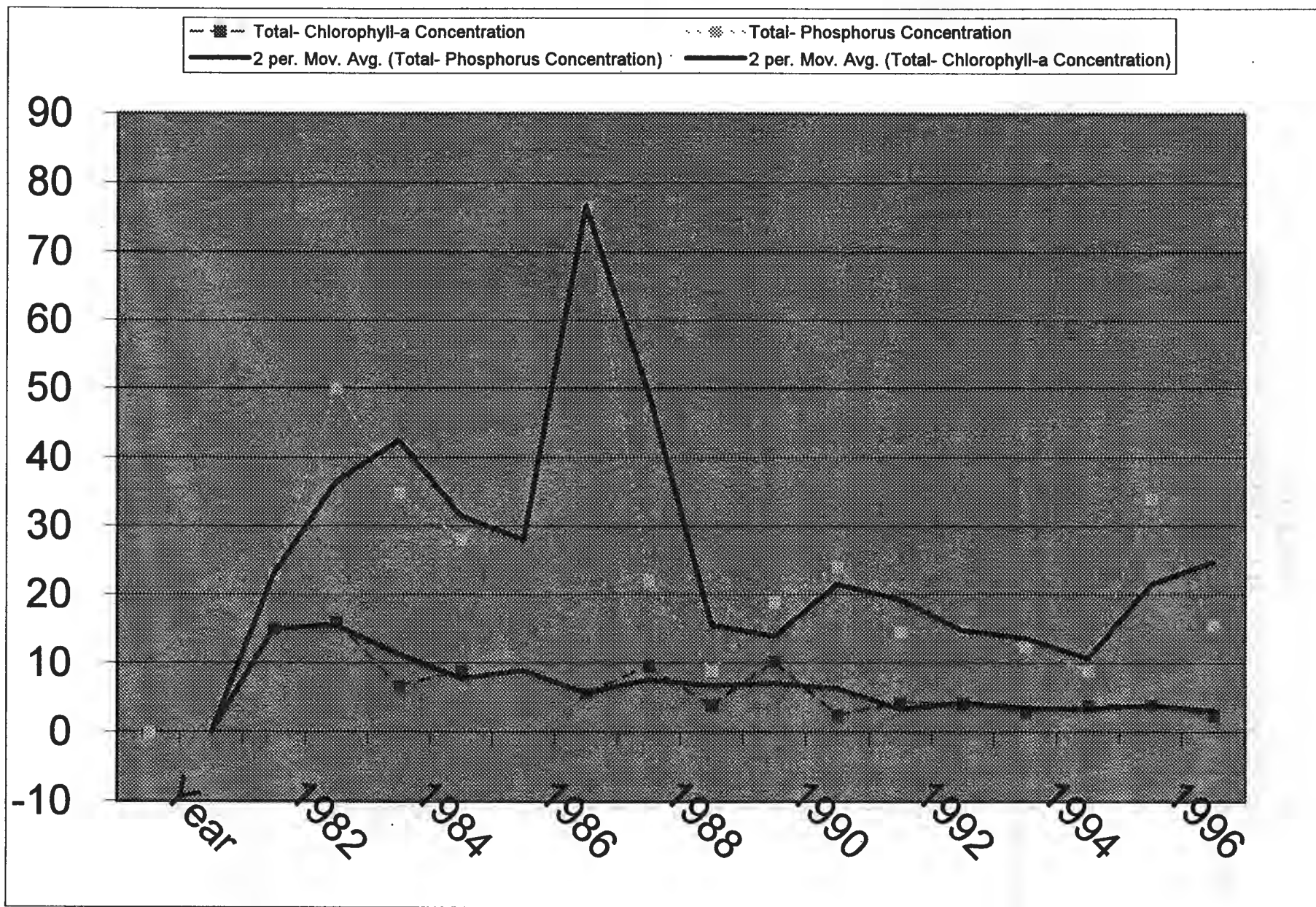
Chatfield Watershed Authority

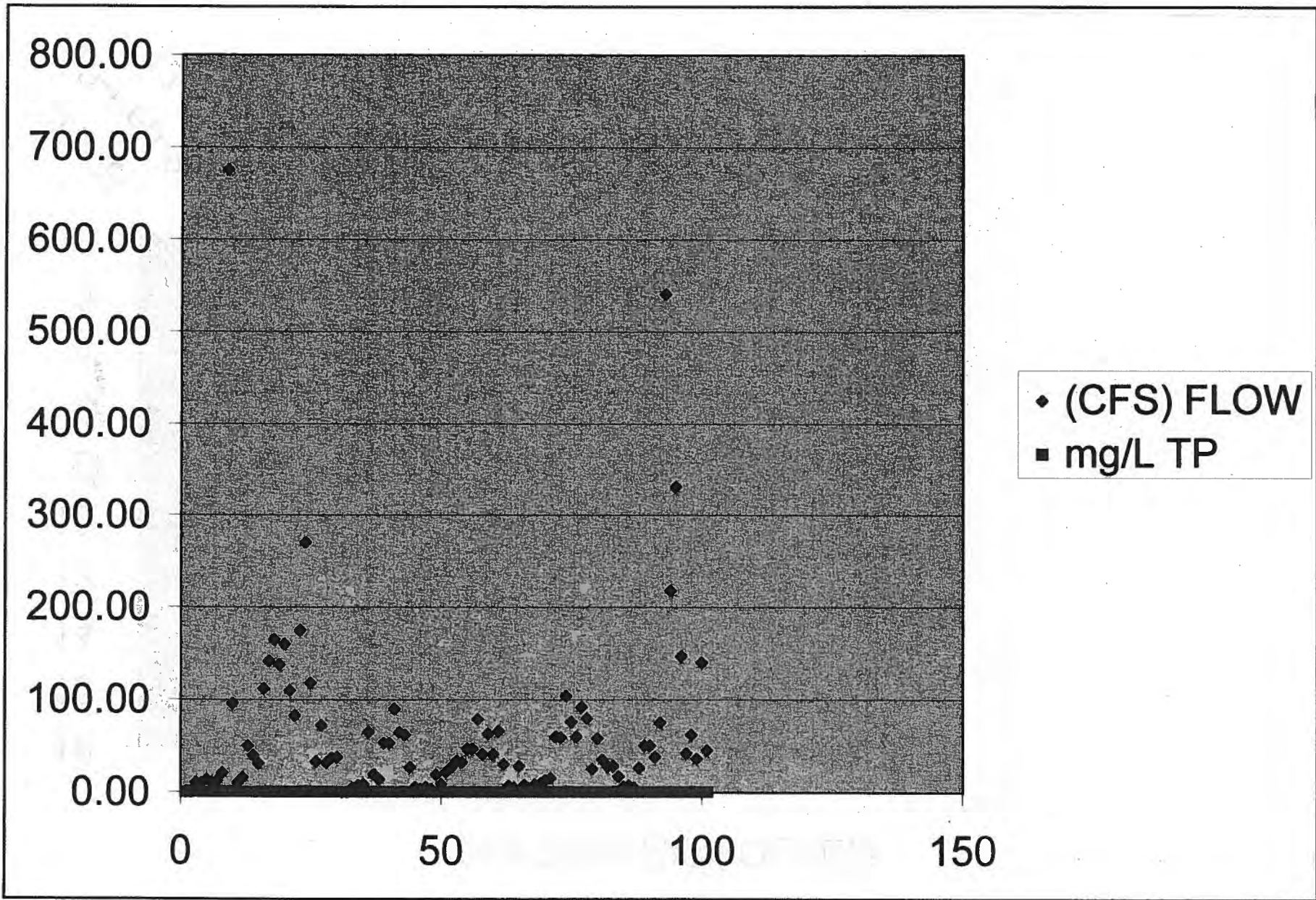
March 13, 1998

TABLE A-1
GROWING SEASON (JULY-THROUGH-SEPTEMBER)
TOTAL-PHOSPHORUS AND CHLOROPHYLL-a CONCENTRATIONS
CHATFIELD RESERVOIR

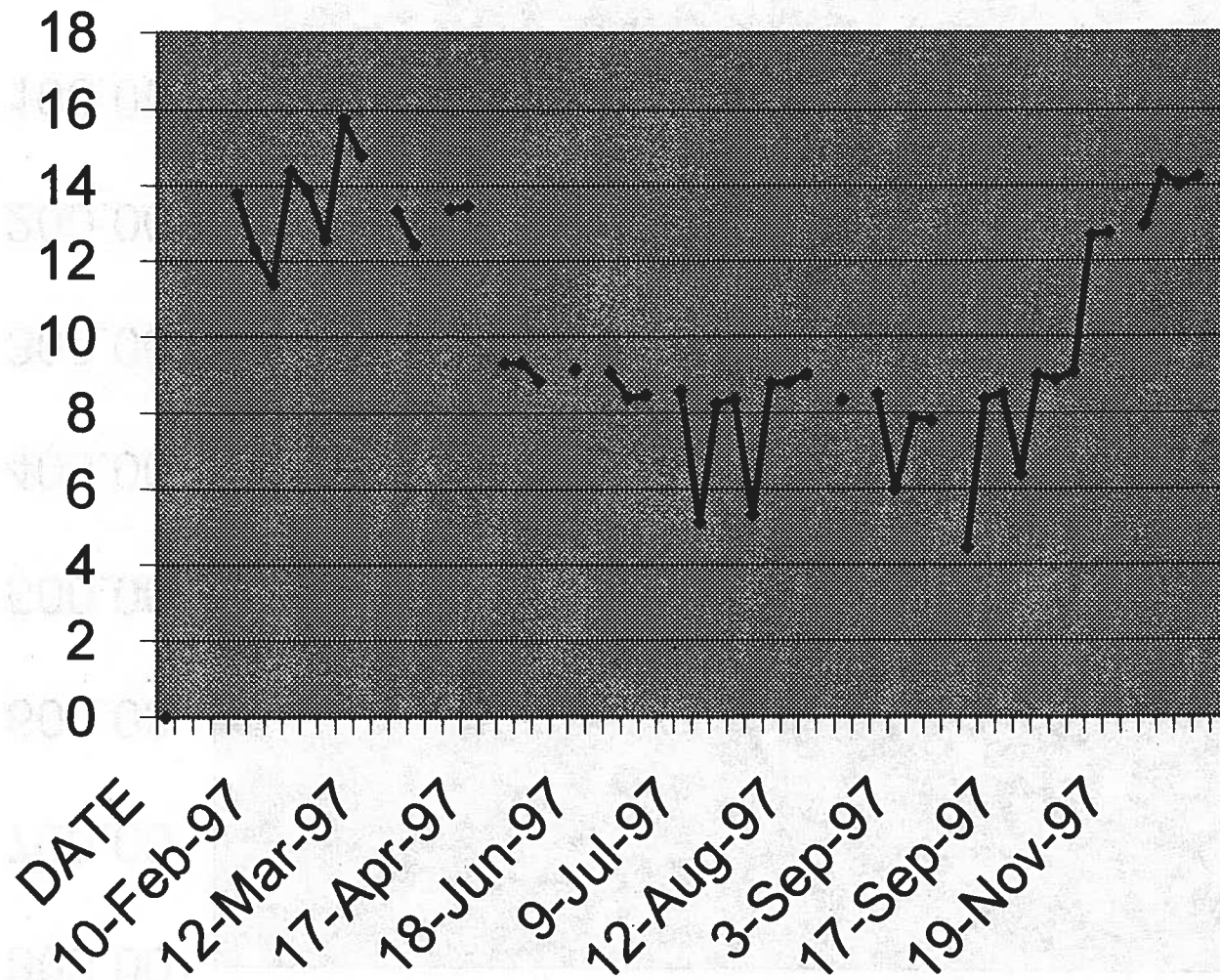
Year	Total- Phosphorus Concentration (mg/L) ¹⁾²⁾	Chlorophyll-a Concentration (ug/L) ¹⁾³⁾	Total- Phosphorus Concentration (ug/L) ¹⁾²⁾
1982	0.023	15	23
1983	0.050	16	50
1984	0.035	6.7	35
1985	0.028	8.9	28
1986			
1987	0.077	5.7	77
1988	0.022	9.6	22
1989	0.009	3.9	9
1990	0.019	10.3	19
1991	0.024	2.4	24
1992	0.015	4.3	15
1993	0.015	4.2	15
1994	0.012	3.0	12
1995	0.009	3.8	9
1996	0.034	3.9	34
1997	<u>0.016</u>	<u>2.4</u>	16
Mean	0.026	6.7	
Std. Dev.	0.017	4.2	
Maximum	0.077	16.0	
Minimum	0.009	2.4	
N	15	15	

- 1) Average Reservoir values.
- 2) Growing-season standard = 0.027 mg/L.
- 3) Growing-season goal = 17 ug/L.
- 4) No data.





OXYGEN, DISSOLVED



NUMBER OF DETECTABLE VALUES FOR METALS

METAL (Dissolved)	(I/O and Reservoir)	Plum Creek	2C (Plum Creek)	S0. Platte River	Mid-Reservoir (3 Levels)	Reservoir Outflow
		(2 samples collected)				
ARSENIC, TOT.	3 and 9	2	n/a	1	5	2
CADMIUM,	9 and 27	0	0	0	0	1
CALCIUM,	9 and 27	9	2	9	27	9
COPPER,	9 and 27	1	0	3	7	3
CHROMIUM III	3 and 18	0	n/a	0	0	0
CHROMIUM VI	3 and 18	1	n/a	0	0	0
IRON,	3 and 9	2	n/a	3	9	3
LEAD	9 and 27	0	0	0	1	0
MAGNESIUM,	9 and 27	9	2	9	27	9
MANGANESE	3 and 9	3	n/a	3	9	3
MERCURY,	9 and 27	0	0	0	13	0
NICKEL,	3 and 9	0	n/a	0	0	0
SELENIUM,	9 and 27	3	0	0	0	1
SILVER,	3 and 9	0	n/a	0	0	0
ZINC,	3 and 9	2	n/a	2	6	3

Bolds indicates that a detectable value has been reported.

TABLE 1
CHATFIELD RESERVOIR OUTFLOW NEAR LITTLETON, CO (SITE 0), SO
06709601
WATER-QUALITY DATA

DATE	TIME	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	pH, FIELD (STD. UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	COLIFORM, FECAL (#/100 ML)
MDL ²⁾							2	1-6	1
PQL ³⁾							10	5-30	1
10-Feb-97	12:15	30.8	7.6	352	13.9	3.2		-1	-1
10-Feb-97	9999							-1	
26-Feb-97	15:20	59.6	8.3	333	12.4	3.7		4	-1
12-Mar-97	14:20	38.6	8.5	343	13.7	7.1	98	-1	-1
17-Apr-97	10:30	10	8.4	335	10.8	9.5		⁴⁾	-1
27-May-97	15:35	151	7.4	348	9.0	15.8	95	⁴⁾	5
18-Jun-97	12:00	771	7.9	219	8.0	18.5		-1	3
9-Jul-97	12:00	300	7.8	230	7.7	19.7	74	⁴⁾	7
9-Jul-97	9999						68	⁴⁾	1
23-Jul-97	9:50	450	8.2	384	7.31	21.1			
12-Aug-97	12:30	700	7.5	227	8.5	19.5		-6	13
20-Aug-97	8:15	150	7.5	235	8.75	18.5			
3-Sep-97	11:35	150	7.7	293	8.73	20.0		-6	19
17-Sep-97	10:40	0	7.9	258	7.36	17.0			
8-Oct-97	9:35		8.16	242	9.07	16.2	76	-6	16
19-Nov-97	10:25		8.59	262	10.91	4.7		-6	1
18-Dec-97	13:45		7.82	266	13.12	2.4		-6	2

TABLE 1
CHATFIELD RESERVOIR OUTFLOW NEAR LITTLETON, CO (SITE 0), SO
06709601
WATER-QUALITY DATA

DATE	TIME	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO ₃)	NITRATE (mg/L as N)	NITRITE (mg/L as N)	NITROGEN, AMMONIA (mg/L)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)	SUSPENDED SEDIMENT, TOTAL (gm/M ³)
MDL ²⁾		0.01	1	0.02	0.01	0.05	0.1	0	0.005	5
PQL ³⁾		0.05	7	0.1	0.05	0.3	0.5	0	0.03	20
10-Feb-97	12:15		147	0.12	-0.01	-0.05		-0.005	0.016	-5
10-Feb-97	9999		140	0.09	0.02	-0.05		-0.005	0.014	22
26-Feb-97	15:20		130	0.07	-0.01	-0.05		-0.005	0.026	-5
12-Mar-97	14:20	-0.01	157	0.49	-0.01	-0.05	0.7	0.011	0.026	10
17-Apr-97	10:30		145	-0.02	-0.01	-0.05		-0.005	0.009	-5
27-May-97	15:35	-0.01	151	-0.02	-0.01	-0.05	0.4	-0.005	0.032	-5
18-Jun-97	12:00		101	-0.02	-0.01	0.05		-0.005	0.016	-5
9-Jul-97	12:00	-0.01	93	0.03	-0.01	-0.05	0.3	-0.005	0.024	-5
9-Jul-97	9999	-0.01	91	0.03	-0.01	-0.05	0.5	-0.005	0.041	-5
23-Jul-97	9:50			0.04	-0.01	-0.05		-0.005	0.022	-5
12-Aug-97	12:30		93	0.04	0.02	-0.05		0.007	0.022	-5
20-Aug-97	8:15			0.06	-0.01	0.10		-0.005	0.036	-5
3-Sep-97	11:35		97	-0.02	-0.01	0.07		-0.005	-0.005	20
17-Sep-97	10:40			-0.02	0.02	0.05		-0.005	0.020	-5
8-Oct-97	9:35	-0.01	83	-0.02	-0.01	0.1	0.3	0.006	-0.01	8
19-Nov-97	10:25		114	-0.02	-0.01	0.07		-0.005	0.01	8
18-Dec-97	13:45		113	-0.02	-0.01	0.06		-0.005	-0.01	-5

TABLE 1
CHATFIELD RESERVOIR OUTFLOW NEAR LITTLETON, CO (SITE 0), SO
06709601
WATER-QUALITY DATA

DATE	TIME	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ²⁾		0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ³⁾		0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
10-Feb-97	12:15		-0.003	42	0.01				-0.04
10-Feb-97	9999		-0.003	39.7	0.01				-0.04
26-Feb-97	15:20		-0.003	36.5	0.01				-0.04
12-Mar-97	14:20	-0.001	-0.003	51.1	0.01	-0.005	-0.005	0.37	-0.04
17-Apr-97	10:30		-0.003	40.4	-0.01				-0.04
27-May-97	15:35	0.001	0.003	43.4	-0.01	-0.005	-0.005	0.04	-0.04
18-Jun-97	12:00		-0.003	27.9	-0.01				-0.04
9-Jul-97	12:00	0.001	-0.003	25.1	-0.01	-0.005	-0.005	0.05	-0.08
9-Jul-97	9999	0.001	-0.003	24.5	-0.01	-0.005	-0.005	0.05	-0.08
23-Jul-97	9:50								
12-Aug-97	12:30		-0.003	25.7	-0.01				-0.04
20-Aug-97	8:15								
3-Sep-97	11:35		-0.003	26.7	-0.01				-0.04
17-Sep-97	10:40								
8-Oct-97	9:35	-0.001	-0.003	23	-0.01	0.008	-0.005	0.01	-0.04
19-Nov-97	10:25		-0.003	32.3	-0.01				-0.04
18-Dec-97	13:45		-0.003	31.6	-0.01				-0.04

TABLE 1
CHATFIELD RESERVOIR OUTFLOW NEAR LITTLETON, CO (SITE 0), SO
06709601
WATER-QUALITY DATA

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	
10-Feb-97	12:15	10.1		-0.0002		-0.001			L12634-01
10-Feb-97	9999	9.9		-0.0002		-0.001			L12634-04
26-Feb-97	15:20	9.5		-0.0002		-0.001			L12839-01
12-Mar-97	14:20	7.1	0.063	-0.0002	-0.01	0.001	-0.005	0.01	L12999-06
17-Apr-97	10:30	10.6		-0.0002		-0.001			L13456-06
27-May-97	15:35	10.4	0.198	-0.0002	-0.01	-0.001	-0.005	0.02	L13948-05
18-Jun-97	12:00	7.5		-0.0002		-0.001			L14319-05
9-Jul-97	12:00	7.4	0.030	-0.0002	-0.01	-0.001	-0.005	0.01	L14612-04
9-Jul-97	9999	7.3	0.029	-0.0002	-0.01	-0.001	-0.005	0.01	L14612-07
23-Jul-97	9:50								L14799-05
12-Aug-97	12:30	7		-0.0002		-0.001			L15047-04
20-Aug-97	8:15								L15160-03
3-Sep-97	11:35	7.4		-0.0002		-0.001			L15327-03
17-Sep-97	10:40								L15557-03
8-Oct-97	9:35	6.2	0.028	-0.0002	-0.01	-0.001	-0.005	0.01	L15900-02
19-Nov-97	10:25	8.1		-0.0002		-0.001			L16475-03
18-Dec-97	13:45	8.3		-0.0002		-0.001			L16832-02

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.

BLANK RANGES INDICATE NO DATA WERE AVAILABLE.

TIME=9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.

1) STREAMFLOW DATA SOURCE: U.S.ARMY CORPS OF ENGINEERS (WRITTEN COMMUNS., OCTOBER 25,1996)

2) MDL= METHOD DETECTION LIMIT. BOD VALUE VARIES.

TABLE 1
CHATFIELD RESERVOIR OUTFLOW NEAR LITTLETON, CO (SITE 0), SO
06709601
WATER-QUALITY DATA

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	

3) PQL=PRACTICAL QUANTITATION LIMIT. BOD VALUE VARIES.

4) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION.

4) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION OR BAD SEED MATERIAL.

TABLE 2
SOUTH PLATTE RIVER AT WATERTON, CO (SITE 1), SP

06708000

WATER-QUALITY DATA

DATE	TIME	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	pH, FIELD (STD. UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	COLIFORM, FECAL (#/100 ML)
MDL ²⁾							2	1-12	1
PQL ³⁾							10	5-60	1
10-Feb-97	13:00	50	7.4	315	15.3	0.4		-1	2
26-Feb-97	15:05	44.1	8.3	346	13.6	1.5		-1	1
12-Mar-97	14:00	37.4	8.6	372	14.0	6.8	100	-1	17
3-Apr-97	14:20	34	8.5	348	11.7	10.8			
7-Apr-97	15:25	35.7	8.5	345	14.1	8.4			
17-Apr-97	10:15	32.4	8.5	263	13.4	6.4		⁴⁾	1
29-Apr-97	10:55	29	8.2	255	15.2	8.9			
6-May-97	10:10	22.3	8.5	253	14.7	10.7			
13-May-97	13:30	37.4	8.5	230	10.3	16.4			
13-May-97	9999	37.4							
27-May-97	15:05	60.6	8.5	201	9.0	14.0	45	⁴⁾	9
3-Jun-97	14:40	350	8.6	211	9.7	16.1			
3-Jun-97	9999	350							
10-Jun-97	8:10	1010	8.0	114	10.6	10.7			
18-Jun-97	11:30	752	8.5	140	9.3	15.0		-1	35
18-Jun-97	9999	752						-1	29
24-Jun-97	6:50	606	7.4	159	8.8	13.3			
1-Jul-97	15:20	417	7.7	222	10.2	15.7			
9-Jul-97	11:30	4/9/00 0:00	8.2	196	10.2	16.2	70	⁴⁾	68
23-Jul-97	10:15	457	8.5	221	7.6	16.5			
12-Aug-97	12:00	652	8.0	238	9.6	18.3		-6	76
12-Aug-97	9999	652						-6	96
20-Aug-97	11:00	223	8.1	212	10.1	16.5			
3-Sep-97	9:10	74	7.5	217	9.4	16.1		-12	190
17-Sep-97	10:00	30.7	8.6	255	12.6	15.1			
8-Oct-97	8:40		7.84	250	10.04	11	77	-6	17
19-Nov-97	10:45		8.47	228	11.78	2.8		-6	1
18-Dec-97	12:55		8.03	257	14.36	2.7		-6	2

TABLE 2
SOUTH PLATTE RIVER AT WATERTON, CO (SITE 1), SP
06708000
WATER-QUALITY DATA

DATE	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO3)	NITRATE (mg/L as N)	NITRITE (mg/L as N)	NITROGEN, AMMONIA (mg/L)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)	SUSPENDED SEDIMENT, TOTAL (gm/M ³)
MDL ²⁾	0.01	1	0.02	0.01	0.05	0.1	0.005	0.005	5
PQL ³⁾	0.05	7	0.1	0.05	0.3	0.5	0.03	0.03	20
10-Feb-97		119	0.24	-0.01	-0.05		-0.005	0.015	8
26-Feb-97		130	0.17	-0.01	-0.05		0.006	0.012	-5
12-Mar-97	-0.01	139	-0.02	-0.01	-0.05	0.2	-0.005	0.014	-5
3-Apr-97			0.07	-0.01	0.06	0.4	0.007	0.02	-5
7-Apr-97			0.04	-0.01	-0.05	0.4	-0.005	0.03	-5
17-Apr-97		130	0.04	-0.01	-0.05		-0.005	0.014	-5
29-Apr-97			0.09	0.02	0.07	0.5	-0.005	0.038	-5
6-May-97			0.11	-0.01	0.15	0.5	-0.005	0.014	-5
13-May-97			0.09	-0.01	-0.05	0.5	-0.005	0.016	-5
13-May-97			0.08	-0.01	-0.05	0.3	-0.005	0.016	-5
27-May-97	-0.01	79	-0.02	-0.01	-0.05	0.2	-0.005	0.081	-5
3-Jun-97			0.02	-0.01	0.05	0.4	-0.005	0.051	28
3-Jun-97			-0.02	-0.01	-0.05	0.4	0.007	0.055	52
10-Jun-97			-0.02	-0.01	0.06	0.3	0.012	0.047	44
18-Jun-97		62	-0.02	-0.01	-0.05		-0.005	0.032	10
18-Jun-97		63	-0.02	-0.01	-0.05		-0.005	0.032	6
24-Jun-97			0.05	-0.01	0.06	0.3	0.010	0.028	12
1-Jul-97			0.06	-0.01	-0.05	0.1	-0.005	0.016	-5
9-Jul-97	-0.01	89	-0.02	-0.01	-0.05	0.3	-0.005	0.026	6
23-Jul-97			0.11	-0.01	-0.05		-0.005	0.021	-5
12-Aug-97		85	0.06	0.01	-0.05		0.032	0.047	20
12-Aug-97		85	0.05	0.01	-0.05		0.046	0.049	18
20-Aug-97			0.09	-0.01	0.07		-0.005	0.029	-5
3-Sep-97		92	0.07	-0.01	0.12		0.061	0.402	250
17-Sep-97			-0.02	-0.01	-0.05		-0.005	0.025	10
8-Oct-97	-0.01	103	0.09	-0.01	0.1	0.4	-0.005	-0.01	8
19-Nov-97		99	0.16	-0.01	0.09		-0.005	0.02	18
18-Dec-97		106	0.64	-0.01	0.06		-0.005	0.01	-5

TABLE 2
SOUTH PLATTE RIVER AT WATERTON, CO (SITE 1), SP
06708000
WATER-QUALITY DATA

DATE	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ²⁾	0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ³⁾	0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
10-Feb-97		-0.003	33.1	0.01				-0.04
26-Feb-97		-0.006	33.8	-0.01				-0.04
12-Mar-97	-0.001	-0.003	35.7	-0.01	-0.005	-0.005	0.09	-0.08
3-Apr-97								
7-Apr-97								
17-Apr-97		-0.003	33.4	-0.01				-0.04
29-Apr-97								
6-May-97								
13-May-97								
13-May-97								
27-May-97	0.001	-0.003	20.6	-0.01	-0.005	-0.005	0.13	-0.04
3-Jun-97								
3-Jun-97								
10-Jun-97								
18-Jun-97		-0.003	16.2	0.01				-0.04
18-Jun-97		-0.003	16.2	-0.01				-0.08
24-Jun-97								
1-Jul-97								
9-Jul-97	-0.001	-0.003	22.5	0.01	-0.005	-0.005	0.07	-0.08
23-Jul-97								
12-Aug-97		-0.003	22.5	-0.01				-0.04
12-Aug-97		-0.003	22.4	-0.01				-0.04
20-Aug-97								
3-Sep-97		-0.003	25.9	-0.01				-0.04
17-Sep-97								
8-Oct-97	-0.001	-0.003	26.9	0.01	0.007	-0.005	0.04	-0.04
19-Nov-97		-0.003	27	-0.01				-0.04
18-Dec-97		-0.003	27.6	-0.01				-0.04

TABLE 2
SOUTH PLATTE RIVER AT WATERTON, CO (SITE 1), SP
06708000
WATER-QUALITY DATA

DATE	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾	0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾	1	0.03	0.001	0.05	0.005	0.03	0.05	
10-Feb-97	8.8		-0.0002		-0.001			L12634-02
26-Feb-97	11.1		-0.0002		-0.001			L12839-02
12-Mar-97	12	0.027	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-05
3-Apr-97								L13286-01
7-Apr-97								L13337-02
17-Apr-97	11.3		-0.0002		-0.001			L13456-05
29-Apr-97								L13592-02
6-May-97								L13678-02
13-May-97								L13770-02
13-May-97								L13770-04
27-May-97	6.6	0.016	-0.0002	-0.01	-0.001	-0.005	0.01	L13948-06
3-Jun-97								L14059-01
3-Jun-97								L14059-04
10-Jun-97								L14190-01
18-Jun-97	5.3		-0.0002		-0.001			L14319-06
18-Jun-97	5.4		-0.0002		-0.001			L14319-08
24-Jun-97								L14438-03
1-Jul-97								L14523-01
9-Jul-97	7.9	0.025	-0.0002	-0.01	-0.001	-0.005	0.01	L14612-05
23-Jul-97								L14799-04
12-Aug-97	7.1		-0.0002		-0.001			L15047-05
12-Aug-97	7.1		-0.0002		-0.001			L15047-07
20-Aug-97								L15160-02
3-Sep-97	6.6		-0.0002		-0.001			L15327-02
17-Sep-97								L15557-04
8-Oct-97	8.6	0.012	-0.0002	-0.01	-0.001	-0.005	0.02	L15900-03
19-Nov-97	7.7		-0.0002		-0.001			L16475-04
18-Dec-97	9.1		-0.0002		-0.001			L16832-03

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.
 BLANK RANGES INDICATE NO DATA WERE AVAILABLE.

TABLE 2
SOUTH PLATTE RIVER AT WATERTON, CO (SITE 1), SP
06708000

WATER-QUALITY DATA

DATE	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾	0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾	1	0.03	0.001	0.05	0.005	0.03	0.05	

TIME=9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.

- 1) STREAMFLOW DATA SOURCE: COLORADO STATE ENGINEERS OFFICE (WRITTEN COMMUNS., OCTOBER 25, 1996)
- 2) MDL= METHOD DETECTION LIMIT. BOD VALUE VARIES.
- 3) PQL=PRACTICAL QUANTITATION LIMIT. BOD VALUE VARIES.
- 4) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION OR BAD SEED MATERIAL.

TABLE 3
PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (SITE 2), PC
06709530
WATER-QUALITY DATA

DATE	TIME	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	pH, FIELD (STD. UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	COLIFORM, FECAL (#/100 ML)
MDL ²⁾							2	1-12	1
PQL ³⁾							10	5-60	1
10-Feb-97	12:40	6	7.1	433	14.2	0.2		-3	27
26-Feb-97	14:50	13	8.0	425	11.4	4.8		2	7
12-Mar-97	13:45	22	8.1	358	10.1	11.7	95	-1	5
3-Apr-97	14:35	10.6	7.8	420	9.4	17.2			
7-Apr-97	15:45	27.9	7.8	374	11.0	14.4			
17-Apr-97	10:00	49.9	8.1	379	12.7	9.9		4)	25
29-Apr-97	11:15	264	7.8	311	11.2	13.5			
29-Apr-97	9999								
6-May-97	10:30	285	7.8	240	11.8	14.7			
13-May-97	14:00	36	7.9	239	6.3	22.3			
27-May-97	14:30	40.1	8.4	315	6.7	18.0	80	4)	150
27-May-97	9999						75		240
3-Jun-97	15:15	13.2	7.9	330	5.9	22.9			
10-Jun-97	7:50	65.1	7.3	221	9.3	12.9			
18-Jun-97	11:00	33.8	8.1	248	5.4	22.1		-1	430
24-Jun-97	6:30	33.8	7.4	275	7.3	16.6			
1-Jul-97	15:45	0.62	7.2	280	5.4	22.2			
9-Jul-97	11:10	0	7.3	379	4.8	22.6	119	4)	7300
23-Jul-97		0	* STREAM DRY; NO SAMPLE COLLECTED.						
12-Aug-97	11:30	45	7.6	281	6.3	22.6		-12	2500
20-Aug-97	10:40	8.3	7.9	305	8.8	19.9			
3-Sep-97	9:25	20	7.6	344	8.7	18.7		-6	240
17-Sep-97	8:15	1.5	7.4	376	8.2	14.9			
17-Sep-97	9999								
8-Oct-97	9:10		7.4	356	5.87	12.9	118	-6	23
19-Nov-97	8:15		7.14	334	13.58	0.3		-6	28
18-Dec-97	13:10		8.31	333	15.28	1.8		-6	18
18-Dec-97	9999							-6	24

TABLE 3
PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (SITE 2), PC
06709530
WATER-QUALITY DATA

DATE	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO3)	NITRATE (mg/L as N)	NITRITE (mg/L as N)	NITROGEN, AMMONIA (mg/L)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)	SUSPENDED SEDIMENT, TOTAL (gm/M ³)
MDL ²⁾	0.01	1	0.02	0.01	0.05	0.1	0	0.005	5
PQL ³⁾	0.05	7	0.1	0.05	0.3	0.5	0	0.03	20
10-Feb-97		154	0.61	-0.01	-0.05		0.013	0.038	10
26-Feb-97		150	0.90	0.02	-0.05		0.020	0.035	20
12-Mar-97	-0.01	138	-0.02	-0.01	0.05	0.3	-0.005	0.009	798
3-Apr-97			0.31	-0.01	0.06	0.7	0.015	0.050	28
7-Apr-97			0.26	-0.01	-0.05	0.6	0.014	0.077	46
17-Apr-97		152	0.46	-0.01	-0.05		-0.005	0.039	28
29-Apr-97			0.26	0.02	0.05	0.7	0.014	0.065	70
29-Apr-97			0.26	0.02	0.08	0.5	0.025	0.068	70
6-May-97			0.1	-0.01	-0.05	-0.1	0.021	0.306	84
13-May-97			0.12	-0.01	-0.05	0.5	-0.005	0.077	-5
27-May-97	-0.01	121	0.24	-0.01	-0.05	0.6	0.022	0.067	48
27-May-97	-0.01	119	0.25	-0.01	-0.05	0.6	0.026	0.076	46
3-Jun-97			0.11	-0.01	-0.05	0.4	0.016	0.055	14
10-Jun-97			0.24	-0.01	0.09	0.5	0.039	0.092	128
18-Jun-97		107	0.13	-0.01	-0.05		0.015	0.116	58
24-Jun-97			0.2	-0.01	0.06	0.4	0.039	0.055	30
1-Jul-97			0.15	-0.01	0.14	0.2	0.016	0.034	-5
9-Jul-97	-0.01	134	0.02	-0.01	0.07	0.3	-0.005	0.038	-5
23-Jul-97			* STREAM DRY; NO SAMPLE COLLECTED.						
12-Aug-97		108	0.34	0.01	-0.05		0.188	0.210	230
20-Aug-97			0.53	-0.01	0.07		0.089	0.248	40
3-Sep-97		137	0.36	-0.01	0.07		0.020	0.086	92
17-Sep-97			0.07	0.01	-0.05		0.024	0.037	-5
17-Sep-97			0.09	-0.01	0.10		-0.005	0.027	6
8-Oct-97	-0.01	157	0.04	-0.01	-0.05	0.2	0.031	0.02	-5
19-Nov-97		144	0.64	-0.01	0.09		0.016	0.04	30
18-Dec-97		130	0.65	-0.01	0.08		-0.005	0.07	56
18-Dec-97		138	-0.02	-0.01	0.07		-0.005	0.07	42

TABLE 3
PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (SITE 2), PC
06709530
WATER-QUALITY DATA

DATE	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ²⁾	0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ³⁾	0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
10-Feb-97		-0.003	50.4	0.01				-0.04
26-Feb-97		-0.003	48.7	-0.01				-0.04
12-Mar-97	-0.001	-0.003	38.8	-0.01	0.005	-0.005	0.06	-0.04
3-Apr-97								
7-Apr-97								
17-Apr-97		-0.003	49.3	-0.01				-0.04
29-Apr-97								
29-Apr-97								
6-May-97								
13-May-97								
27-May-97	0.001	-0.003	39.2	-0.01	-0.005	-0.005	0.11	-0.04
27-May-97	0.001	-0.003	38.3	-0.01	-0.005	-0.005	0.11	-0.04
3-Jun-97								
10-Jun-97								
18-Jun-97		-0.003	34.4	-0.01				-0.2
24-Jun-97								
1-Jul-97								
9-Jul-97	0.001	-0.003	43.1	-0.01	-0.005	-0.005	-0.01	-0.04
23-Jul-97			* STREAM DRY; NO SAMPLE COLLECTED.					
12-Aug-97		-0.003	34.8	-0.01				-0.04
20-Aug-97								
3-Sep-97		-0.02	45.0	-0.05				-0.2
17-Sep-97								
17-Sep-97								
8-Oct-97	-0.001	-0.003	50.9	0.01	-0.005	-0.005	0.09	-0.04
19-Nov-97		-0.003	46.8	-0.01				-0.04
18-Dec-97		-0.003	41.8	-0.01				-0.04
18-Dec-97		-0.003	45	-0.01				-0.04

TABLE 3
PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (SITE 2), PC
06709530
WATER-QUALITY DATA

DATE	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾	0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾	1	0.03	0.001	0.05	0.005	0.03	0.05	
10-Feb-97	6.9		-0.0002		0.002			L12634-03
26-Feb-97	6.8		-0.0002		0.001			L12839-03
12-Mar-97	9.9	0.041	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-07
3-Apr-97								L13286-03
7-Apr-97								L13337-03
17-Apr-97	7.1		-0.0002		0.001			L13456-07
29-Apr-97								L13592-03
29-Apr-97								L13592-04
6-May-97								L13678-03
13-May-97								L13770-03
27-May-97	5.6	0.031	-0.0002	-0.01	-0.001	-0.005	0.02	L13948-07
27-May-97	5.6	0.035	-0.0002	-0.01	-0.001	-0.005	0.03	L13948-08
3-Jun-97								L14059-03
10-Jun-97								L14190-02
18-Jun-97	5.1		-0.0002		-0.001			L14319-07
24-Jun-97								L14438-01
1-Jul-97								L14523-02
9-Jul-97	6.3	0.073	-0.0002	-0.01	-0.001	-0.005	0.01	L14612-06
23-Jul-97			* STREAM DRY; NO SAMPLE COLLECTED.					
12-Aug-97	5.0		-0.0002		-0.001			L15047-06
20-Aug-97								L15160-01
3-Sep-97	6.0		-0.0002		-0.001			L15327-01
17-Sep-97								L15557-01
17-Sep-97								L15557-05
8-Oct-97	7.3	1.12	-0.0002	-0.01	-0.001	-0.005	0.02	L15900-01
19-Nov-97	6.5		-0.0002		-0.001			L16475-01
18-Dec-97	6.2		-0.0002		0.001			L16832-01
18-Dec-97	6.1		-0.0002		-0.001			L16832-07

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.
 BLANK RANGES INDICATE NO DATA WERE AVAILABLE.
 TIME = 9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.
 1) STREAMFLOW DATA SOURCE: U. S. GEOLOGICAL SURVEY (WRITTEN COMMENTS, OCTOBER 25, 1996)

TABLE 3
PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (SITE 2), PC
06709530
WATER-QUALITY DATA

DATE	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾	0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾	1	0.03	0.001	0.05	0.005	0.03	0.05	

- 2) MDL=METHOD DETECTION LIMIT. BOD VALUE VARIES.
3) PQL=PRACTICAL QUANTITATION LIMIT. BOD VALUE VARIES.
4) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION OR BAD SEED MATERIAL.

TABLE 3A
PLUM CREEK ABOVE CHATFIELD RESERVOIR (SITE 2C)
393214105024201
WATER-QUALITY DATA (PAIRED SAMPLE)

DATE	TIME	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	pH, FIELD (STD. UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	COLIFORM, FECAL (#/100 ML)
							2	1	1
							10	5	1
26-Feb-97	1430		7.9	432	10.8	3.3		-1	2
17-Apr-97	1045		7.9	392	10.1	8.8		⁴⁾	7
17-Sep-97	8:45		7.6	372	8.46	14.3			
19-Nov-97	8:45		7.93	369	10.64	0.7		-6	98

TABLE 3A
PLUM CREEK ABOVE CHATFIELD RESERVOIR (SITE 2C)
393214105024201
WATER-QUALITY DATA (PAIRED SAMPLE)

DATE	TIME	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO ₃)	NITRATE (mg/L as N)	NITRITE (mg/L as N)	NITROGEN, AMMONIA (mg/L)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)	SUSPENDED SEDIMENT, TOTAL (gm/M ³)
MDL ²⁾		0.01	1	0.02	0.01	0.05	0.1	0	0.005	5
PQL ³⁾		0.05	7	0.1	0.05	0.3	0.5	0	0.03	20
26-Feb-97	1430		169	0.63	0.01	0.12		0.020	0.018	-5
17-Apr-97	1045		161	0.25	0.01	-0.05		-0.005	0.035	-5
17-Sep-97	8:45			0.05	0.01	0.06		0.017	0.08	14
19-Nov-97	8:45		155	0.47	-0.01	0.11		0.021	0.06	50

TABLE 3A
PLUM CREEK ABOVE CHATFIELD RESERVOIR (SITE 2C)
393214105024201
WATER-QUALITY DATA (PAIRED SAMPLE)

DATE	TIME	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ²⁾		0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ³⁾		0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
26-Feb-97	1430		-0.003	54.5	-0.01				-0.04
17-Apr-97	1045		-0.003	51.1	-0.01				-0.04
17-Sep-97	8:45								
19-Nov-97	8:45		-0.003	50.2	-0.01				-0.04

TABLE 3A
PLUM CREEK ABOVE CHATFIELD RESERVOIR (SITE 2C)
393214105024201
WATER-QUALITY DATA (PAIRED SAMPLE)

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ²⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ³⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	
26-Feb-97	1430	7.9		-0.0002		-0.001			L12839-04
17-Apr-97	1045	8.0		-0.0002		-0.001			L13456-08
17-Sep-97	8:45								L15557-02
19-Nov-97	8:45	7.2		-0.0002		-0.001			L16475-02

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.
 BLANK RANGES INDICATE NO DATA WERE AVAILABLE.
 TIME = 9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.
 1) NO STREAM GAUGE DATA IS AVAILABLE.
 2) MDL= METHOD DETECTION LIMIT.
 3) PQL=PRACTICAL QUANTITATION LIMIT.
 4) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION.

TABLE 4
DEER CREEK ABOVE CHATFIELD RESERVOIR (SITE DC)
WATER-QUALITY DATA (Tributary High-Flow)

DATE	TIME	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	pH, FIELD (STD. UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)	NITRATE (mg/L as N)	NITRITE (mg/L as N)
MDL ²⁾							0.02	0.01
PQL ³⁾							0.1	0.05
3-Apr-97	13:55		8.4	748	9.6	17.6	0.27	-0.01
7-Apr-97	15:00		8.4	430	12.0	9.6	0.11	0.01
29-Apr-97	10:40		7.8	210	13.1	6.2	0.39	0.05
6-May-97	9:50		7.7	185	12.9	8.8	0.36	-0.01
13-May-97	13:00		8.1	241	8.9	17.7	0.09	0.01
3-Jun-97	14:00		8.6	579	7.9	22.0	0.04	0.01
10-Jun-97	8:30		8.2	254	10.8	11.3	0.12	-0.01
24-Jun-97	7:20		7.9	701	8.2	13.3	0.3	-0.01
24-Jun-97	9999						0.28	-0.01

TABLE 4
DEER CREEK ABOVE CHATFIELD RESERVOIR (SITE DC)
WATER-QUALITY DATA (Tributary High-Flow)

DATE	TIME	NITROGEN, AMMONIA (mg/L)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)	SUSPENDED SEDIMENT, TOTAL (gm/M ³)	LABORATORY SAMPLE NUMBER
MDL ²⁾		0.05	0.1	0.005	0.005	5	
PQL ³⁾		0.3	0.5	0.03	0.03	20	
3-Apr-97	13:55	-0.05	0.7	-0.005	0.011	-5	L13286-02
7-Apr-97	15:00	0.05	0.5	0.006	0.052	14	L13337-01
29-Apr-97	10:40	-0.05	1.1	0.057	0.146	150	L13592-01
6-May-97	9:50	0.07	0.6	0.015	0.025	24	L13678-01
13-May-97	13:00	-0.05	0.2	-0.005	0.035	6	L13770-01
3-Jun-97	14:00	0.05	0.5	0.012	0.044	-5	L14059-02
10-Jun-97	8:30	0.08	0.6	0.014	0.048	38	L14190-03
24-Jun-97	7:20	0.05	0.6	0.008	0.026	-5	L14438-02
24-Jun-97	9999	0.06	0.6	0.008	0.026	-5	L14438-04

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.
 BLANK RANGES INDICATE NO DATA WERE AVAILABLE.
 TIME = 9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.
 1) NO STREAM GAUGE DATA IS AVAILABLE.
 2) MDL= METHOD DETECTION LIMIT.
 3) PQL=PRACTICAL QUANTITATION LIMIT.

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	SAMPLING DEPTH (Meters)	TOTAL DEPTH (Meters)	TRANSPARENCY SECCHI DISK (Meters)	pH, FIELD (STANDARD UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)
MDL ¹⁾								
PQL ²⁾								
10-Feb-97	11:40	1	5.5	3	7.7	335	13.8	4.3
10-Feb-97	11:45	1.5	5.5	3	7.7	334	12.3	4.4
10-Feb-97	11:50	5	5.5	3	7.6	347	11.4	4.1
26-Feb-97	13:30	1	10	3	8.0	322	14.4	4.5
26-Feb-97	13:35	1.5	10	3	8.1	322	13.9	4.5
26-Feb-97	13:40	9	10	3	8.1	329	12.6	3.8
12-Mar-97	12:30	1	12	3	8.0	344	15.7	6.0
12-Mar-97	12:35	1.5	12	3	8.1	344	14.8	5.8
12-Mar-97	9999							
12-Mar-97	12:40	11	12	3	8.1	348	13.4	5.2
17-Apr-97	9:00	1	13	3.5	8.0	337	12.4	7.4
17-Apr-97	9999							
17-Apr-97	9:05	2.5	13	3.5	8.1	340	13.4	7.3
17-Apr-97	9:10	12	13	3.5	8.1	340	13.5	7.1
17-Apr-97	9999							
27-May-97	13:30	1	8	3	8.0	351	9.3	16.8
27-May-97	13:10	1.5	8	3	8.1	349	9.3	16.5
27-May-97	12:45	7	8	3	8.2	347	8.8	15.8
27-May-97	9999							
18-Jun-97	9:50	1	10.5	4	8.1	257	9.1	18.3
18-Jun-97	9999							
18-Jun-97	9:40	2	10.5	4	8.0	255	9.1	18.3
18-Jun-97	9:30	9.5	10.5	4	7.8	190	8.4	15.6
9-Jul-97	10:00	1	10	4	7.5	233	8.5	20.0
9-Jul-97	9999							
9-Jul-97	9:50	2	10	4	7.6	233	8.6	19.6
9-Jul-97	9:40	9	10	4	7.4	228	5.1	17.5
23-Jul-97	9:15	1	8	4	6.2	240	8.3	21.7
23-Jul-97	9:10	2	8	4	7.7	240	8.4	21.6
23-Jul-97	9:00	7	8	4	7.4	227	5.3	18.5

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	SAMPLING DEPTH (Meters)	TOTAL DEPTH (Meters)	TRANSPARENCY SECCHI DISK (Meters)	pH, FIELD (STANDARD UNITS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (mg/L)	TEMPERATURE (Deg C)
MDL ¹⁾								
PQL ²⁾								
12-Aug-97	10:55	1	13	3	8.3	236	8.8	19.7
12-Aug-97	10:40	1.5	13	3	8.3	236	8.8	19.6
12-Aug-97	10:25	12	13	3	7.2	270	9.0	17.8
12-Aug-97	9999							
20-Aug-97	9:30	1	11	2.5	8.2	237	8.4	19.7
20-Aug-97	9999							
20-Aug-97	9:45	1.3	11	2.5	8.2	237	8.5	19.6
20-Aug-97	10:00	10	11	2.5	7.5	230	6.0	18.2
3-Sep-97	10:45	1	11	3	7.9	239	7.9	20.9
3-Sep-97	10:50	1.5	11	3	7.9	239	7.8	20.7
3-Sep-97	9999							
3-Sep-97	11:00	10	11	3	7.7	237	4.5	19.4
17-Sep-97	9:50	1	11	2.5	8.1	253	8.4	20.1
17-Sep-97	10:00	1.5	11	2.5	8.1	254	8.5	20.2
17-Sep-97	10:15	10	11	2.5	7.7	254	6.4	19.7
8-Oct-97	11:00	1	11	2.5	8.25	240	9.01	16.5
8-Oct-97	11:15	1.5	11	2.5	8.14	241	8.87	16.5
8-Oct-97	11:30	10	11	2.5	8.15	240	9.08	16.5
19-Nov-97	9:50	1	11	2.5	8.65	257	12.69	3.9
19-Nov-97	9:40	1.5	11	2.5	8.64	256	12.75	3.9
19-Nov-97	9999							
19-Nov-97	9:30	10	11	2.5	8.42	253	12.97	3.9
18-Dec-97	12:30	1	11	3	7.71	266	14.33	1.3
18-Dec-97	12:40	1.5	11	3	7.7	265	14.02	1.4
18-Dec-97	12:50	10	11	3	8.18	261	14.23	2

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	CHLOROPHYLL_a (mg/M ³)	COLIFORM, FECAL (#/100 ML)	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO ₃)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)
MDL ¹⁾		2	1	0.3	1	0.01	1	0.1	0.005	0.005
PQL ²⁾		10	5		1	0.05	7	0.5	0.03	0.03
10-Feb-97	11:40		-1	2.8	-1		135	0.1	-0.005	0.007
10-Feb-97	11:45		-1		-1		134	0.1	-0.005	0.007
10-Feb-97	11:50		2		-1		133	0.2	-0.005	0.020
26-Feb-97	13:30		-5	4.3	-1		134	6.3	-0.005	-0.005
26-Feb-97	13:35		-1		-1		136	1.5	-0.005	-0.005
26-Feb-97	13:40		-5		-1		131	5.6	-0.005	-0.005
12-Mar-97	12:30	95	-1	6.2	-1	-0.01	148	-0.1	-0.005	0.011
12-Mar-97	12:35	95	-1		-1	-0.01	149	-0.1	-0.005	0.012
12-Mar-97	9999	95	-1		-1	-0.01	149	-0.1	-0.005	0.011
12-Mar-97	12:40	96	-1		-1	-0.01	148	-0.1	-0.005	0.015
17-Apr-97	9:00		³⁾	1.9	-1		143	0.1	-0.005	-0.005
17-Apr-97	9999			2.8						
17-Apr-97	9:05		³⁾		2		142	0.1	-0.005	-0.005
17-Apr-97	9:10		³⁾		1		141	0.3	-0.005	0.016
17-Apr-97	9999		³⁾		2.8		143	0.1	-0.005	0.009
27-May-97	13:30	90	³⁾	0.5	-1	-0.01	153	0.2	-0.005	0.017
27-May-97	13:10	90	³⁾		-1	-0.01	151	0.2	-0.005	0.029
27-May-97	12:45	95	³⁾		2	-0.01	152	0.3	-0.005	0.026
27-May-97	9999	90	³⁾		1	-0.01	152	0.3	-0.005	0.02
18-Jun-97	9:50		-1	2.3	4		116	0.1	-0.005	0.019
18-Jun-97	9999		-1		3		115	0.4	-0.005	0.011
18-Jun-97	9:40		-1		1		114	0.2	-0.005	0.014
18-Jun-97	9:30		2		2		90	0.3	-0.005	0.024
9-Jul-97	10:00	81	³⁾	2.0	-1	-0.01	91	0.2	-0.005	0.015
9-Jul-97	9999			1.1						
9-Jul-97	9:50	74	³⁾		1	-0.01	92	0.2	-0.005	0.015
9-Jul-97	9:40	74	³⁾		-1	-0.01	93	0.3	-0.005	0.024
23-Jul-97	9:15			3.9				0.2	-0.005	0.016
23-Jul-97	9:10							0.2	-0.005	0.015
23-Jul-97	9:00							0.3	-0.005	0.018

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	ALKALINITY, TOTAL (mg/L)	BOD, 5-DAY (mg/L)	CHLOROPHYLL _a (mg/M ³)	COLIFORM, FECAL (#/100 ML)	CYANIDE, WAD (mg/L)	HARDNESS (mg/L as CaCO ₃)	NITROGEN, TOTAL (mg/L)	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	PHOSPHORUS, TOTAL (mg/L as P)
MDL ¹⁾		2	1	0.3	1	0.01	1	0.1	0.005	0.005
PQL ²⁾		10	5		1	0.05	7	0.5	0.03	0.03
12-Aug-97	10:55		-6	0.8	3		95	0.2	-0.005	0.018
12-Aug-97	10:40		-6		6		93	0.2	-0.005	0.022
12-Aug-97	10:25		-6		8		94	0.5	0.037	0.046
12-Aug-97	9999				8					
20-Aug-97	9:30			4.8				0.3	-0.005	-0.005
20-Aug-97	9999							0.3	-0.005	0.015
20-Aug-97	9:45							0.4	-0.005	-0.005
20-Aug-97	10:00							0.3	0.006	0.02
3-Sep-97	10:45		-6	2.8	1		96	0.2	-0.005	-0.005
3-Sep-97	10:50		-6		1		97	0.3	-0.005	-0.005
3-Sep-97	9999		-6		3		98	0.4	-0.005	-0.005
3-Sep-97	11:00		-6		-1		98	0.4	-0.005	-0.005
17-Sep-97	9:50			2.7				0.2	-0.005	0.017
17-Sep-97	10:00							0.2	-0.005	0.016
17-Sep-97	10:15							0.2	-0.005	0.016
8-Oct-97	11:00	76	-8	5.4	5.4	-0.01	98	1.3	-0.005	-0.01
8-Oct-97	11:15	76	-8		2	-0.01	98	0.4	-0.005	0.01
8-Oct-97	11:30	70	-12		1	-0.01	97	0.5	-0.005	-0.01
19-Nov-97	9:50		-6	6.3	3		116	0.3	-0.005	0.01
19-Nov-97	9:40		-6		-1		116	0.4	-0.005	0.01
19-Nov-97	9999		-6		2		117	0.3	-0.005	0.01
19-Nov-97	9:30		-6		1		115	1	-0.005	0.02
18-Dec-97	12:30		-6	6.9	4		114	0.4	-0.005	0.01
18-Dec-97	12:40		-6		4		120	0.7	-0.005	0.01
18-Dec-97	12:50		-6		8		117	0.5	-0.005	0.02

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	SUSPENDED SEDIMENT, TOTAL (gm/M ³)	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ¹⁾		5	0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ²⁾		20	0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
10-Feb-97	11:40	-5		-0.003	38.2	0.01				-0.04
10-Feb-97	11:45	-5		-0.003	37.9	0.01				-0.04
10-Feb-97	11:50	-5		-0.003	37.7	-0.01				-0.04
26-Feb-97	13:30	-5		-0.003	37.5	-0.01				-0.04
26-Feb-97	13:35	-5		-0.003	38.1	-0.01				-0.04
26-Feb-97	13:40	-5		-0.003	36.8	-0.01				-0.04
12-Mar-97	12:30	-5	-0.001	-0.003	42.6	-0.01	-0.005	-0.005	0.06	-0.04
12-Mar-97	12:35	-5	-0.001	-0.003	42.7	-0.01	-0.005	-0.005	0.05	0.2
12-Mar-97	9999	-5	-0.001	-0.003	42.7	-0.01	-0.005	-0.005	-0.05	-0.04
12-Mar-97	12:40	8	-0.001	-0.003	42.6	-0.01	-0.005	-0.005	0.06	-0.04
17-Apr-97	9:00	-5		-0.003	40.2	0.01				-0.04
17-Apr-97	9999									
17-Apr-97	9:05	-5		-0.003	39.8	0.01				-0.04
17-Apr-97	9:10	12		-0.003	39.6	-0.01				-0.04
17-Apr-97	9999	6		-0.003	40.2	0.01				-0.02
27-May-97	13:30	-5	0.001	-0.003	43.8	-0.01	-0.005	-0.005	0.03	-0.04
27-May-97	13:10	-5	-0.001	-0.003	43.2	-0.01	-0.005	-0.005	0.03	-0.04
27-May-97	12:45	6	0.001	-0.003	43.7	-0.01	-0.005	-0.005	0.04	-0.04
27-May-97	9999	8	-0.001	-0.003	43.9	-0.01	-0.005	-0.005	0.04	-0.04
18-Jun-97	9:50	-5		-0.003	32.8	-0.01				-0.04
18-Jun-97	9999	-5		-0.003	32.3	-0.01				-0.08
18-Jun-97	9:40	-5		-0.003	32.2	0.01				-0.04
18-Jun-97	9:30	-5		-0.003	24.6	0.01				-0.04
9-Jul-97	10:00	-5	0.001	-0.003	24.6	0.01	-0.005	-0.005	0.05	-0.04
9-Jul-97	9999									
9-Jul-97	9:50	-5	0.001	-0.003	24.9	-0.01	-0.005	-0.005	0.04	-0.04
9-Jul-97	9:40	6	0.001	-0.003	25	-0.01	-0.005	-0.005	0.05	-0.04
23-Jul-97	9:15	-5								
23-Jul-97	9:10	-5								
23-Jul-97	9:00	-5								

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	SUSPENDED SEDIMENT, TOTAL (gm/M ³)	ARSENIC, TOTAL (mg/L)	CADMIUM, DISSOLVED (mg/L)	CALCIUM, DISSOLVED (mg/L)	COPPER, DISSOLVED (mg/L)	CHROMIUM, HEXAVALENT, DISSOLVED (mg/L)	CHROMIUM, TRIVALENT DISSOLVED (mg/L)	IRON, DISSOLVED (mg/L)	LEAD, DISSOLVED (mg/L)
MDL ¹⁾		5	0.001	0.003	0.2	0.01	0.0006	0.0006	0.01	0.08
PQL ²⁾		20	0.005	0.02	1	0.05	0.005	0.005	0.05	0.4
12-Aug-97	10:55	-5		-0.003	26.3	-0.01				-0.04
12-Aug-97	10:40	-5		-0.003	25.7	-0.01				-0.04
12-Aug-97	10:25	22		-0.003	25.8	-0.01				-0.04
12-Aug-97	9999									
20-Aug-97	9:30	-5								
20-Aug-97	9999	-5								
20-Aug-97	9:45	-5								
20-Aug-97	10:00	-5								
3-Sep-97	10:45	-5		-0.003	26.5	-0.01				-0.04
3-Sep-97	10:50	20		-0.003	26.6	-0.01				-0.04
3-Sep-97	9999	-5		-0.003	26.9	-0.01				-0.04
3-Sep-97	11:00	10		-0.003	26.8	-0.01				-0.04
17-Sep-97	9:50	-5								
17-Sep-97	10:00	-5								
17-Sep-97	10:15	-5								
8-Oct-97	11:00	-5	-0.001	-0.003	26.5	0.01	-0.005	-0.005	0.02	-0.04
8-Oct-97	11:15	-5	0.001	-0.003	26.6	0.01	-0.005	-0.005	0.02	-0.04
8-Oct-97	11:30	10	0.001	-0.003	26.4	0.01	0.007	-0.005	0.02	-0.04
19-Nov-97	9:50	8		-0.003	32.7	-0.01				-0.04
19-Nov-97	9:40	12		-0.003	32.5	-0.01				-0.04
19-Nov-97	9999	12		-0.003	32.9	-0.01				-0.04
19-Nov-97	9:30	10		-0.003	32.4	-0.01				-0.04
18-Dec-97	12:30	-5		-0.02	31.7	-0.01				-0.04
18-Dec-97	12:40	-5		-0.003	34.4	0.01				-0.04
18-Dec-97	12:50	-5		-0.003	33.3	-0.01				-0.04

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE, DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ¹⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ²⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	
10-Feb-97	11:40	9.6		-0.0002		-0.001			L12634-05
10-Feb-97	11:45	9.5		-0.0002		-0.001			L12634-06
10-Feb-97	11:50	9.4		-0.0002		-0.001			L12634-07
26-Feb-97	13:30	9.7		-0.0002		-0.001			L12839-05
26-Feb-97	13:35	9.9		-0.0002		-0.001			L12839-06
26-Feb-97	13:40	9.4		0.0004		-0.001			L12839-07
12-Mar-97	12:30	10.2	0.048	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-01
12-Mar-97	12:35	10.2	0.046	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-02
12-Mar-97	9999	10.2	0.045	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-04
12-Mar-97	12:40	10.1	0.047	-0.0002	-0.01	-0.001	-0.005	-0.01	L12999-03
17-Apr-97	9:00	10.4		0.0007		-0.001			L13456-01
17-Apr-97	9999								
17-Apr-97	9:05	10.3		-0.0002		-0.001			L13456-02
17-Apr-97	9:10	10.3		0.0002		-0.001			L13456-03
17-Apr-97	9999	10.4		-0.0002		-0.001			L13456-04
27-May-97	13:30	10.5	0.113	-0.0002	-0.01	-0.001	-0.005	0.01	L13948-01
27-May-97	13:10	10.4	0.111	0.0002	-0.01	-0.001	-0.005	0.02	L13948-02
27-May-97	12:45	10.3	0.156	0.0011	-0.01	-0.001	-0.005	0.01	L13948-03
27-May-97	9999	10.3	0.156	0.0011	-0.01	-0.001	-0.005	0.01	L13948-04
18-Jun-97	9:50	8.3		0.0004		-0.001			L14319-01
18-Jun-97	9999	8.3		0.0004		-0.001			L14319-04
18-Jun-97	9:40	8.2		0.0004		-0.001			L14319-02
18-Jun-97	9:30	6.9		0.0003		-0.001			L14319-03
9-Jul-97	10:00	7.2	0.026	-0.0002	-0.01	-0.001	-0.005	0.06	L14612-01
9-Jul-97	9999								
9-Jul-97	9:50	7.3	0.025	-0.0002	-0.01	-0.001	-0.005	0.02	L14612-02
9-Jul-97	9:40	7.4	0.03	0.0002	-0.01	-0.001	-0.005	0.02	L14612-03
23-Jul-97	9:15								L14799-01
23-Jul-97	9:10								L14799-02
23-Jul-97	9:00								L14799-03

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE, DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ¹⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ²⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	
12-Aug-97	10:55	7.2		0.0002		-0.001			L15047-01
12-Aug-97	10:40	7		0.0005		-0.001			L15047-02
12-Aug-97	10:25	7.2		-0.0002		-0.001			L15047-03
12-Aug-97	9999								
20-Aug-97	9:30								L15160-04
20-Aug-97	9999								L15160-07
20-Aug-97	9:45								L15160-05
20-Aug-97	10:00								L15160-06
3-Sep-97	10:45	7.3		0.0009		-0.001			L15327-04
3-Sep-97	10:50	7.3		0.0004		-0.001			L15327-05
3-Sep-97	9999	7.5		0.0003		-0.001			L15327-07
3-Sep-97	11:00	7.5		-0.0002		-0.001			L15327-06
17-Sep-97	9:50								L15557-06
17-Sep-97	10:00								L15557-07
17-Sep-97	10:15								L15557-08
8-Oct-97	11:00	7.6	0.038	-0.0002	-0.01	-0.001	-0.005	0.01	L15900-04
8-Oct-97	11:15	7.7	0.028	-0.0002	-0.01	-0.001	-0.005	0.02	L15900-05
8-Oct-97	11:30	7.5	0.053	-0.0002	-0.01	-0.001	-0.005	0.02	L15900-06
19-Nov-97	9:50	8.4		-0.0002		-0.001			L16475-05
19-Nov-97	9:40	8.4		-0.0002		-0.001			L16475-07
19-Nov-97	9999	8.5		-0.0002		-0.001			L16475-06
19-Nov-97	9:30	8.2		-0.0002		-0.001			L16475-08
18-Dec-97	12:30	8.4		-0.0002		-0.001			L16832-04
18-Dec-97	12:40	8.2		-0.0002		-0.001			L16832-05
18-Dec-97	12:50	8.2		-0.0002		-0.001			L16832-06

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.

TABLE 5
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	MAGNESIUM, DISSOLVED (mg/L)	MANGANESE, DISSOLVED (mg/L)	MERCURY, DISSOLVED (mg/L)	NICKEL, DISSOLVED (mg/L)	SELENIUM, DISSOLVED (mg/L)	SILVER, DISSOLVED (mg/L)	ZINC, DISSOLVED (mg/L)	LABORATORY SAMPLE NUMBER
MDL ¹⁾		0.2	0.005	0.0002	0.01	0.001	0.005	0.01	
PQL ²⁾		1	0.03	0.001	0.05	0.005	0.03	0.05	

BLANK RANGES INDICATE NO DATA WERE AVAILABLE.

TIME = 9999 MEANS THE SAMPLE IS A DUPLICATE OR A SPLIT OF THE SAMPLE IMMEDIATELY ABOVE.

1) MDL= METHOD DETECTION LIMIT.

2) PQL=PRACTICAL QUANTITATION LIMIT.

3) UNABLE TO REPORT BOD VALUE DUE TO INSTRUMENT MALFUNCTION OR BAD SEED MATERIAL.

TABLE 6
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
SEDIMENT-QUALITY DATA

DATE	TIME	PHOSPHORUS, TOTAL (percent)	CADMIUM, DISSOLVED (mg/Kg)	COPPER, DISSOLVED (mg/Kg)	LEAD, DISSOLVED (mg/Kg)	MERCURY, DISSOLVED (mg/Kg)	SELENIUM, DISSOLVED (mg/Kg)
MDL ¹⁾		0.01	0.4	1	5	0.0002	0.1
PQL ²⁾		0.1	2	7	30	0.001	0.7
20-Aug-97	10:15	0.07	8.8	37	48	0.0136	1.2

DATE	TIME	CARBON, TOTAL ORGANIC (mg/Kg)	TEXTURE by HYDROMETER			Solids (percent)	LABORATORY SAMPLE NUMBER
			Sand (percent)	Silt (percent)	Clay (percent)		
MDL ¹⁾		20	1	1	1	0.1	
PQL ²⁾		100	5	5	5	0.5	
20-Aug-97	10:15	29500	17.5	40	42.5	18.6	L15161-01

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.
 BLANK RANGES INDICATE NO DATA WERE AVAILABLE.
 1) MDL= METHOD DETECTION LIMIT.
 2) PQL=PRACTICAL QUANTITATION LIMIT.

Avg

1995 Averages (used in Figures 4, 5, 6, 7)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
21-Mar-95	0.008	1.2	6.0	0.024	0.8	7.0	0.020	1.4	6.0	0.017	1.1	6.3
28-Apr-95	0.008	1.8	9.0	0.007	1.4	9.0	0.009	2.2	5.0	0.008	1.8	7.7
18-May-95	0.017	1.4	12.0	0.028	2.8	1.5	0.009	1.3	5.0	0.018	1.8	6.2
22-Jun-95	0.020	3.1	4.0	0.021	1.8	5.0	0.020	2.2	5.0	0.020	2.4	4.7
06-Jul-95	0.015	1.8	7.0	0.018	2.8	8.3	0.003	2.5	8.0	0.012	2.4	7.8
19-Jul-95	0.003	4.7	7.0	0.011	5.4	5.5	0.003	3.3	8.0	0.005	4.5	6.8
09-Aug-95	0.003	4.6	5.0	0.003	4.7	7.0	0.003	4.1	7.0	0.003	4.5	6.3
23-Aug-95	0.003	5.0	7.0	0.009	2.8	7.0	0.005	3.0	6.0	0.006	3.6	6.7
07-Sep-95	0.006	3.3	7.0	0.012	3.7	2.0	0.026	3.1	2.0	0.015	3.4	3.7
27-Sep-95	0.003	7.8	6.0	0.003	4.4	3.0	0.003	6.1	3.0	0.003	6.1	4.0
01-Nov-95	0.009		5.0	0.005		2.0	0.016		5.0	0.010		4.0
20-Nov-95	0.014		5.0	0.029		4.0	0.029		4.0	0.024		4.3
Summer Avg										0.007	4.1	
										7.1 µg/L		

1987 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
9/1/87	0.02	4.9	6.3	0.02	3	5.5	0.13	2	6.5	0.057	3.3	6.1
9/14/87	0.05	15	5.2	0.05	7.4	3.2	0.19	1.8	4.1	0.097	8.1	4.2
10/1/87	0.15	12.3	4.5	0.06	7.1	4	0.07	27.8	2.1	0.093	15.7	3.5
11/13/87	0.01	2.3	5	0.06	2.7	2.3	0.01	1.6	3	0.027	2.2	3.4
Summer Avg										0.077	5.7	
										76.7 µg/L		

1988 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
1/8/88	0.02	1.9	7.5	0.02	1.1	5	0.03	3.6	8.5	0.023	2.2	7.0
2/10/88	0.005	4.5	9	0.005	8.3	8	0.005	5.8	6	0.005	6.2	7.7
3/30/88	0.005	7.2	4	0.01	5.2	3	0.005	4.2	5	0.007	5.5	4.0
4/27/88	0.02	3.8	3	0.04	5.8	3.3	0.02	3.2	7.2	0.027	4.3	4.5
5/13/88	0.01	4.4	6	0.02	3.6	5	0.01	1.7	6.8	0.013	3.2	5.9
5/25/88	0.06	1.7	2.8	0.05	1.7	2	0.04	0.4	7	0.050	1.3	3.9
6/16/88	0.02	13.8	6.5	0.03	10.2	4.5	0.01	6.7	8.5	0.020	10.2	6.5

Avg

6/30/88	0.005	3.3	5.2	0.01	5.4	2.6	0.01	3.6	5.5	0.008	4.1	4.4
7/15/88	0.005	7.2	4.9	0.005	12.4	3.7	0.005	6.2	5	0.005	8.6	4.5
7/27/88	0.02	4	6	0.04	11.2	3.3	0.02	6.5	5	0.027	7.2	4.8
8/16/88	0.02	12	3.6	0.02	16.1	3.5	0.02	14.7	3.5	0.020	14.3	3.5
8/29/88	0.02	13	3.5	0.02	8.9	2.7	0.005	13.6	4	0.015	11.8	3.4
9/16/88	0.01	6	3	0.02	6	2	0.12	8	2	0.050	6.7	2.3
9/29/88	0.005	12	3.9	0.005	11	3.7	0.04	4	0	0.017	9.0	2.5
10/14/88	0.03	6	5.9	0.04	10	3.9	0.08	5	2.3	0.050	7.0	4.0

Summer Avg 0.022 9.6
22.2 µg/L

1989 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
1/10/89	0.007	8	8	0.007	7	5	0.007	3	8	0.007	6.0	7.0
2/8/89	0.019	6	6.5	0.045	18	4.5	0.012	9	4.5	0.025	11.0	5.2
3/27/89	0.012	5	4.8	0.012	4.5	4.8	0.009	7.3	5	0.011	5.6	4.9
4/13/89	0.02	4.8	11.8	0.022	5.2	5	0.012	3.5	8.7	0.018	4.5	8.5
5/10/89	0.011	2.5	9	0.019	4.5	6	0.025	3.3	3.5	0.018	3.4	6.2
6/15/89	0.014	2.1	11	0.014	2.7	7.5	0.018	1.5	10	0.015	2.1	9.5
7/6/89	0.0025	2.3	6	0.008	1.8	6				0.005	2.1	6.0
7/20/89	0.014	1.8	7	0.005	2	5			5.5	0.010	1.9	5.8
8/3/89	0.0025	1.3	8	0.0025	1.7	3.5	0.012		3.6	0.006	1.5	5.0
8/15/89	0.022	2.6	10	0.009	21	7.3	0.008	1.8	7	0.013	8.5	8.1
8/30/89	0.0025	4	4	0.0025	4.3	4.5	0.008	3.2	6.5	0.004	3.8	5.0
9/15/89	0.019	1.7	3	0.016	2.2	3.5	0.0025	3.9	3.8	0.013	2.6	3.4
9/28/89	0.008	17.5	8.5	0.012	1.3	9	0.016	1.5	5.5	0.012	6.8	7.7
10/23/89	0.0025	3.6	4.4	0.01	6.6	2.8	0.012	1.5	4.5	0.008	3.9	3.9
11/29/89	0.0025	19.9	4.3	0.019	7.1	3.8	0.011	5.9	4.2	0.011	11.0	4.1
12/27/89	0.0025	1.7	10	0.0025	3.6	5.5	0.008	19.4	5.1	0.004	8.2	6.9

Summer Avg 0.009 3.9
8.9 µg/L

1990 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
26-Jan-90	0.0025	3.8	10.5	0.0025	4.7	5	0.0025	1.4	12	0.003	3.3	9.2
27-Mar-90	0.011	4.7	12.5	0.0025	3.6	10.5	0.006	3.6	12.5	0.007	4.0	11.8
13-Apr-90	0.0025	4.7	9	0.0025	4.7	5	0.0025	3.6	8.5	0.003	4.3	7.5
26-Apr-90	0.0025	3.6	13.5	0.0025	3	5	0.0025	1.7	6	0.003	2.8	8.2
22-May-90	0.03	3.6	9	0.012	2	8	0.033	2.6	4.5	0.025	2.7	7.2

Avg

06-Jun-90	0.005	4.8	7	0.0025	3.5	6.1	0.006	4	7.5	0.005	4.1	6.9
21-Jun-90	0.0025	5.2	4.4				0.02	4.2	4.3	0.011	4.7	4.4
11-Jul-90	0.0025	3.4	8.4	0.012	2.2	8.8	0.015	3.9	8.8	0.010	3.2	8.7
27-Jul-90	0.007	3.6	11	0.005	3.7	7	0.007	5.4	10	0.006	4.2	9.3
18-Aug-90	0.018	5.5	8	0.01	5.9	3.5	0.045	4.6	8.8	0.024	5.3	6.8
30-Aug-90	0.005	5.4	5.6	0.006	5.4	5	0.019	3.3	3.8	0.010	4.7	4.8
12-Sep-90	0.062	42.6	2.7	0.012	27.7	2.7	0.011	12.4	2.8	0.028	27.6	2.7
26-Sep-90	0.041	29.3	4.1	0.033	13.3	3.5	0.03	7.8	4	0.035	16.8	3.9
22-Oct-90	0.051		4	0.024		3.2	0.017		4.1	0.031		3.8
30-Nov-90	0.022		3.5	0.023		4.1	0.023		4.1	0.023		3.9

Summer Avg 0.019 10.300
18.9 µg/L

1991 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
02-Jan-91	0.0025		4.5	0.008	0	4	0.008		4	0.006	0.0	4.2
30-Jan-91	0.01	5.3	4.5	0.006	9.9	2.7	0.009	2.8	5.3	0.008	6.0	4.2
22-Mar-91	0.01	5.7	5	0.01	11	5.3	0.01	3.2	4.8	0.010	6.6	5.0
03-Apr-91	0.02	5.3	5.6	0.06	11.4	4.9	0.04	2.1	6	0.040	6.3	5.5
03-May-91	0.03	3.6	11.2	0.03	8.9	4.2	0.02	2.1	8.2	0.027	4.9	7.9
15-May-91	0.04	8.2	5.3	0.03	9.6	5.2	0.02	3.2	5.1	0.030	7.0	5.2
05-Jun-91	0.04	3.9	7	0.04	6	5.5	0.04	2.1	7.5	0.040	4.0	6.7
20-Jun-91	0.02	1.4	8.3	0.02	2.1	7.2	0.02	1.4	7.2	0.020	1.6	7.6
05-Jul-91	0.02	2.1	8	0.02	2.5	3.7	0.01	3.9	5.2	0.017	2.8	5.6
18-Jul-91	0.02	2.1	10.6	0.02	3.2	7	0.04	1.4	7	0.027	2.2	8.2
01-Aug-91	0.02	2.1	10.4	0.02	2.1	9.8	0.005	2.8	6.8	0.015	2.3	9.0
27-Aug-91	0.033	4.3	6	0.073	3.6	4.6	0.033	3.6	5	0.046	3.8	5.2
06-Sep-91	0.0025	0	4.8	0.006	0	2.7	0.0025		4.9	0.004	0.0	4.1

Summer Avg 0.024 2.410
24.0 µg/L

1992 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
17-Mar-92	0.01	1.8	6.6	0.014	0.5	5.1	0.009	2.8	7	0.011	1.7	6.2
15-Apr-92	0.008	1.1	7.6	0.016	3.7	1.2	0.0025	1.6	8.7	0.009	2.1	5.8
13-May-92	0.022	1.6	3.8	0.019	1.2	2.2	0.017	1.5	5	0.019	1.4	3.7
17-Jun-92	0.02	4.1	3	0.015	2.8	3	0.015	2.1	2.6	0.017	3.0	2.9
08-Jul-92	0.017	0.9	6.5	0.019	0.5	5	0.009	0.5	5	0.015	0.6	5.5

Avg

22-Jul-92	0.007	0.9	6.6	0.015	0.5	3.4	0.008	0.2	8.2	0.010	0.5	6.1
13-Aug-92	0.0025	2.5	5.6	0.0025	3.6	5	0.0025	2	7.8	0.003	2.7	6.1
26-Aug-92	0.021	1.5	4	0.026	3	3.2	0.027	7.6	4	0.025	4.0	3.7
15-Sep-92	0.012	21.8	4	0.011	7.1	4.7	0.011	12.6	4	0.011	13.8	4.2
30-Sep-92	0.024	4.6	4.5	0.021	5.2	4.5	0.021	6	6	0.022	5.3	5.0
14-Oct-92	0.119	4.4	5	0.128	3.9	3.4	0.038	3.6	6.6	0.095	4.0	5.0
16-Nov-92	0.026	4.8	7.8	0.023	5	6	0.02	3.4	9.7	0.023	4.4	7.8

Summer Avg 0.015 4.3
14.6 µg/L

1993 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
01-Apr-93	0	2.7	10	0.135		5.2	0.038	3.6	8.6	0.058	3.2	7.9
05-Apr-93	0.008	0	9	0.017	0	8.8	0.05	0	7.8	0.025	0.0	8.5
21-Apr-93	0.01	3.7	11.9	0.01	3.1	6.3	0.016	2	6.9	0.012	2.9	8.4
19-May-93	0.009	2.5	10.3	0.018	3.7	6	0.018	2.2	7	0.015	2.8	7.8
16-Jun-93	0.016	6.3	4.7	0.056	6.6	4.5	0.017	0	2.9	0.030	4.3	4.0
07-Jul-93	0.0025	4.2	4.9	0.009	4.6	3.7	0.0025	2.8	6.1	0.005	3.9	4.9
21-Jul-93	0.0025	5	7.3	0.0025	3.6	5.6	0.0025	3.3	5	0.003	4.0	6.0
12-Aug-93	0.0025	3.1	8	0.0025	3.3	5	0.0025	3.2	6	0.003	3.2	6.3
26-Aug-93	0.032	4	8	0.026	3.4	4.5	0.011	3.7	3	0.023	3.7	5.2
10-Sep-93	0.015	6.4	7.6	0.009	6.9	5	0.012	3.3	3.6	0.012	5.5	5.4
22-Sep-93	0.032	5.9	6	0.035	5.1	3.3	0.022	2.7	6	0.030	4.6	5.1
06-Oct-93	0.0025	6	6	0.01	6.3	5	0.0025	2.8	5	0.005	5.0	5.3
03-Nov-93				0.019	2.8	4	0.013	3.2	5	0.016	3.0	4.5

Summer Avg 0.015 4.2
14.9 µg/L

1994 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
24-Mar-94	0.006	4.9	7.4	0.008	4.7	4	0.011	3.7	7	0.008	4.4	6.1
20-Apr-94	0.003	1.8	11.0	0.007	3	8				0.005	2.4	9.5
18-May-94	0.015	3.8	6.0	0.009	3.3	2	0.028	3.3	5	0.017	3.5	4.3
15-Jun-94	0.007	3.7	7.0	0.013	3.3	3	0.006	2.5	5	0.009	3.2	5.0
14-Jul-94	0.003	2.7	4.0	0.0025	2.7	3	0.0025	3.1	4	0.003	2.8	3.7
26-Jul-94	0.003	3.4	11.0	0.0025	2.7	7	0.0025	2.7	8	0.003	2.9	8.7
10-Aug-94	0.011	2.1	8.0	0.0025	3	4	0.007	2.7	7	0.007	2.6	6.3

Avg

24-Aug-94	0.003	0.0	5.0	0.006	4.4	4	0.0025	2.6	7	0.004	2.3	5.3
07-Sep-94	0.075	2.7	9.0	0.065	3.1	6	0.042	2.7	6	0.061	2.8	7.0
19-Sep-94	0.003	4.2	5.0	0.0025	4	7	0.0025	3.7	7	0.003	4.0	6.3
08-Oct-94	0.003	4.3	4.0	0.028	4.2	4	0.0025	4.2	5	0.011	4.2	4.3
11-Nov-94			7.0			4			5			5.3
Summer Avg										0.012	3.0	
										12.5 µg/L		

1995 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
21-Mar-95	0.008	1.2	6.0	0.024	0.8	7	0.02	1.4	6	0.017	1.1	6.3
28-Apr-95	0.008	1.8	9.0	0.007	1.4	9	0.009	2.2	5	0.008	1.8	7.7
18-May-95	0.017	1.4	12.0	0.028	2.8	1.5	0.009	1.3	5	0.018	1.8	6.2
22-Jun-95	0.020	3.1	4.0	0.021	1.8	5	0.02	2.2	5	0.020	2.4	4.7
06-Jul-95	0.015	1.8	7.0	0.018	2.8	8.3	0.0025	2.5	8	0.012	2.4	7.8
19-Jul-95	0.003	4.7	7.0	0.011	5.4	5.5	0.0025	3.3	8	0.005	4.5	6.8
09-Aug-95	0.003	4.6	5.0	0.0025	4.7	7	0.0025	4.1	7	0.003	4.5	6.3
23-Aug-95	0.003	5.0	7.0	0.009	2.8	7	0.005	3	6	0.006	3.6	6.7
07-Sep-95	0.006	3.3	7.0	0.012	3.7	2	0.026	3.1	2	0.015	3.4	3.7
27-Sep-95	0.003	7.8	6.0	0.0025	4.4	3	0.0025	6.1	3	0.003	6.1	4.0
01-Nov-95	0.009		5.0	0.005		2	0.016		5	0.010		4.0
20-Nov-95	0.014		5.0	0.029		4	0.029		4	0.024		4.3
Summer Avg										0.009	3.8	
										9.0 µg/L		

1996 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-7			RP-8			RS-9			Average of 3 sites		
	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi	T.Phosph	Chloroph.	Secchi
21-Mar-96	0.009	5.6	7.0	0.01	6	6	0.008	4.6	6	0.009	5.4	6.3
24-Apr-96	-0.005	2.8	6.0	0.005	2.2	6	0.007	3.6	5	0.002	2.9	5.7
30-May-96	0.020	2.2	8.0	0.015	1.5	5	0.016	1.6	5	0.017	1.8	6.0
19-Jun-96	0.011	1.7	14.0	0.019	1.5	9	0.013	2.4	10	0.014	1.9	11.0
16-Jul-96	0.022	2.4	3.0	0.023	1.8	3	0.076	2.4	1	0.040	2.2	2.3
24-Jul-96	0.007	2.8	5.0	0.012	4.4	4	0.02	4.2	4	0.013	3.8	4.3
07-Aug-96	0.078	4.4	6.0	0.064	4.4	4	0.044	4.5	2	0.062	4.4	4.0
04-Sep-96	0.067	5.4	4.0	0.023	5.5	3	0.024	6.4	3	0.038	5.8	3.3
11-Sep-96	0.039	7.2	4.0	0.045	6.4	2	0.032	6.4	3	0.039	6.7	3.0
18-Sep-96	0.034	1.7	4.0	0.023	2.7	4	0.039	3.6	3	0.032	2.7	3.7

Avg

09-Oct-96	0.018	3.7	6.0	0.014	6.1	4	0.016	2.4	4	0.016	4.1	4.7
13-Nov-96	-0.005	5.6	4.0	0.014	7.6	4	-0.005	2.2	4	0.001	5.1	4.0
Summer Avg										0.034	3.9	
										34.0 µg/L		

1997 Averages (used in Figures 4, 5, 6, 7 and Table A-1)

	RM-1			RM-2			RM-3			Average of 3 sites		
	T.Phosph	Chloroph.	T. Nitrogen	T.Phosph	Chloroph.	T. Nitrogen	T.Phosph	Chloroph.	T. Nitrogen	T.Phosph	Chloroph.	T. Nitrogen
10-Feb-97	0.007	2.8	0.1	0.007	2.8	0.1	0.02	2.8	0.2	0.011	2.8	0.13
26-Feb-97	0.003	4.3	6.3	0.003	4.3	15	0.003	4.3	5.6	0.003	4.3	8.97
12-Mar-97	0.011	6.2	-0.1	0.012	6.2	-0.1	0.015	6.2	-0.1	0.013	6.2	-0.10
17-Apr-97	0.003	1.9	0.1	0.003	1.9	0.1	0.016	1.9	0.3	0.007	1.9	0.17
27-May-97	0.017	0.5	0.2	0.029	0.5	0.2	0.026	0.5	0.3	0.024	0.5	0.2
18-Jun-97	0.019	2.3	0.1	0.014	2.3	0.2	0.024	2.3	0.3	0.019	2.3	0.2
09-Jul-97	0.015	2.0	0.2	0.015	2	0.2	0.024	2	0.3	0.018	2.0	0.2
23-Jul-97	0.016	3.9	0.2	0.015	3.9	0.2	0.018	3.9	0.3	0.016	3.9	0.2
12-Aug-97	0.018	0.8	0.2	0.022	0.8	0.2	0.046	0.8	0.5	0.029	0.8	0.3
20-Aug-97	0.003	4.8	0.3	0.003	4.8	0.4	0.020	4.8	0.3	0.008	4.8	0.3
03-Sep-97	0.003	2.8	0.2	0.003	2.8	0.3	0.003	2.8	0.4	0.003	2.8	0.3
17-Sep-97	0.017	2.7	0.2	0.016	2.7	0.2	0.016	2.7	0.2	0.016	2.7	0.2
08-Oct-97	0.005	5.4	1.3	0.010	5.4	0.4	0.005	5.4	0.5	0.007	5.4	0.7
19-Nov-97	0.010	6.3	0.3	0.010	6.3	0.4	0.020	6.3	1.0	0.013	6.3	0.6
18-Dec-97	0.010	6.9	0.4	0.010	6.9	0.7	0.020	6.9	0.5	0.013	6.9	0.5
Summer Avg										0.016	2.4	
										15.6 µg/L		

Avg

1994 Annual Averages

	RM-7		RP-8		RS-9		Average of 3 sites	
	T.Phosph	Chloroph.	T.Phosph	Chloroph.	T.Phosph	Chloroph.	T.Phosph	Chloroph.
24-Mar-94	0.006	4.9	0.008	4.7	0.006	4.5	0.007	4.7
20-Apr-94	0.0025	1.8	0.007	3.0			0.005	2.4
18-May-94	0.015	3.8	0.009	3.3	0.028	3.3	0.017	3.5
15-Jun-94	0.007	3.7	0.013	3.3	0.006	2.5	0.009	3.2
14-Jul-94	0.0025	2.7	0.0025	2.7	0.0025	3.1	0.003	2.8
26-Jul-94	0.0025	3.4	0.0025	2.7	0.0025	2.7	0.003	2.9
10-Aug-94	0.011	2.1	0.0025	3.0	0.007	2.7	0.007	2.6
24-Aug-94	0.0025	3.6	0.006	4.4	0.0025	2.6	0.004	3.5
07-Sep-94	0.075	2.7	0.065	3.1	0.042	2.7	0.061	2.8
19-Sep-94	0.0025	4.2	0.0025	4.0	0.0025	3.7	0.003	4.0
08-Oct-94	0.0025	4.3	0.028	4.2	0.0025	4.2	0.011	4.2
11-Nov-94	*	*	*		*			
							0.013	3.1
								13.1 µg/L

Avg

Mod. Jones and Bachmann

(log Chloro. = -0.85+1.46 Log TP)

Chloro	Log Chloro.	TP	Log TP
0.14125375	-0.85	1	0
4.07380278	0.61	10	1
11.2073722	1.04950379	20	1.30103
30.8324182	1.48900759	40	1.60206
55.731512	1.74610083	60	1.778151
84.8225611	1.92851138	80	1.90309
117.489755	2.07	100	2
192.020206	2.28334693	140	2.146128

Species	Average cells/ml	Count	Maximum cells/ml
Bacillariophyta			
<i>Asterionella formosa</i>	145	74	2386
<i>Cyclotella stelligera</i>	219	23	1375
<i>Fragilaria crotonensis</i>	126	80	1158
<i>Melosira ambigua</i>	154	7	671
<i>Melosira granulata</i>	859	51	24383
<i>Melosira granulata</i> var. <i>angustissima</i>	309	45	2620
<i>Melosira italica</i>	146	60	1346
<i>Melosira italica</i> var. <i>tenuissima</i>	245	25	2317
<i>Stephanodiscus tenuis</i>	2599	7	7862
Phyla Average	533	41	4902
Chlorophyta			
<i>Chlorella</i> sp.	4310	88	83750
<i>Chlorella gracile</i>	313	8	2500
<i>Chlorella vulgaris</i>	806	12	2128
<i>Chlorococcum</i> sp.	162	13	852
<i>Coccomyxa</i> sp.	9647	60	49500
<i>Crucigenia quadrata</i>	102	6	500
<i>Crucigenia tetrapedia</i>	123	9	500
<i>Eudorina elegans</i>	106	12	500
<i>Pandorina morum</i>	86	10	606
<i>Pandorina boryanum</i>	393	7	2726
<i>Pseudosphaerocystis</i> <i>lacustris</i>	125	13	515
<i>Sphaerocystis schroeteri</i>	155	11	876
<i>Tetrastrum elegans</i>	92	8	454
Phyla Average	1263	20	11185
Chrysophyta			
<i>Chromulina minutissima</i>	91	17	250
<i>Dinobryon divergens</i>	88	69	710
<i>Kephyrion</i> sp.	208	14	1193
Phyla Average	129	33	718
Cryptophyta			
<i>Croomonas acuta</i>	1129	40	2500
<i>Cryptomonas</i> sp.	267	14	1722

<i>Rhodomonas minuta</i>	514	68	6354
<i>Anabaena circinalis</i>	218	8	1663
<i>Anabaena flos-aquae</i>	385	27	3098
<i>Anabaena spiroides</i>	101	10	630
<i>Anabaena spiroides</i> var. <i>crassa</i>	1046	6	3862
<i>Anacystis</i> sp.	464	6	2598
<i>Aphanizomenon flos-</i> <i>aquae</i>	15897	45	115013
<i>Aphanocapsa</i> <i>delicatissima</i>	1588	47	9656
<i>A. elachista</i>	212	9	751
<i>A. elachista</i> var. <i>conferta</i>	6360	12	24125
<i>Aphanothece</i> (<i>Coccochloris</i>) sp.	14121	76	116875
<i>A. nidulans</i>	2870	7	19000
<i>A. saxicola</i>	2054	7	12500
<i>A. stagnina</i> (<i>Anacystis</i> <i>rupestris</i>)	4250	8	17372
<i>Chroococcus dispersus</i>	720	23	3688
<i>Coelosphaerium</i> <i>neagelianum</i>	368	11	1815
<i>Dactylococcopsis</i> <i>fascicularis</i>	146	14	1874
<i>Gloeocapsa punctata</i>	18975	5	94875
<i>Gomphosphaeria</i> <i>wichurae</i>	125	9	800
<i>L. limnetica</i>	134	9	376
<i>Merismopedia tenuissima</i>	17047	45	74375
<i>Microcystis aeruginosa</i>	156	21	1250
<i>M. incerta</i>	307	5	1534
<i>Oscillatoria</i> sp.	95	7	500
<i>O. limnetica</i>	1866	9	13746
<i>O. subtilissima</i>	114	5	568
<i>Rhabdoderma</i> sp.	148	5	738
<i>Synechococcus</i> sp.	4465	26	24822
Phyla Average	3205	19	18623
Euglenophyta			
<i>Trachelomonas</i> <i>planctonica</i>	324	8	2130

Pyrrophyta

Ceratium hirundinella	16	49	125
TOTAL CELLS/ML	37395	115	132297
NUMBER OF SPECIES	19	115	41