

**WATER-QUALITY MONITORING PROGRAM
CHATFIELD BASIN AND RESERVOIR
DENVER METROPOLITAN AREA
FINAL BASIC-DATA REPORT
JANUARY 1995-DECEMBER 1995**



*ADVANCED
SCIENCES, INC.*

**WATER-QUALITY MONITORING PROGRAM
CHATFIELD BASIN AND RESERVOIR
DENVER METROPOLITAN AREA
FINAL BASIC-DATA REPORT
JANUARY 1995-DECEMBER 1995**

Prepared For:

**Chatfield Basin Authority
Denver, Colorado**

Prepared By:

**Advanced Sciences, Inc.
Lakewood, Colorado**

ASI Project No. 8047.50

First Interim: May 8, 1995
Second Interim: August 18, 1995
Third Interim: December 19, 1995
Final: March 11, 1996

File: 95Q4LTR.RPT

March 12, 1996

Mr. Ron Mitchell
Chair, Chatfield Basin Authority
Castle Rock Town Manager
680 North Wilcox Street
Castle Rock, CO 80104

Subject: Water-Quality Monitoring Program, Chatfield Basin and Reservoir, Denver Metropolitan Area: Final Basic-Data Report, January 1995-December 1995
ASI Project No. 8047.50

Dear Mr. Mitchell:

The 1995 Annual Basic-Data Report is submitted in fulfillment of the subject program's contract requirements. The attached Tables 1 through 6 incorporate the field measurements and laboratory chemical data collected by Advanced Sciences, Inc. (ASI) and available to date in conjunction with the Chatfield Basin and Reservoir Monitoring Program (see Figures 1) for the January-through-December 1995 period. Chemical analyses were performed by ACZ Laboratories, Inc., Steamboat Springs, CO, and biological analyses were performed by the University of Colorado Limnology Center, Boulder, CO. A total of 12 duplicate samples were analyzed for chemical constituents in this year's program. Alluvial well (sites 1W, 2W, 3W and 5W, Tables 7 through 9 and Table 11, respectively; Figure 2) data were collected on June 15, 1995 due to higher than normal spring runoff and stream stages. No supplemental tributary (sites 2B, 3, 4A, 4B, 6, 6A, 6B, and 6C; Figure 3) data were collected during the 1995 sampling program and the associated Tables 10, and 12 through 21 have been omitted from this report. Chlorophyll-a samples were inadvertently not submitted for analysis for the October and November reservoir surveys.

In-Reservoir water-quality profiles for the March 21 through November 20 surveys are given in Figure series B-1A through F, B-2A through F, and B-3A through F for sites 7, 8, and 9, respectively. In-reservoir chlorophyll-a concentrations and phytoplankton-species numbers are included with the chemical analyses (Tables 4 through 6). The detailed biological (phytoplankton-species) data for the July through September 1995 growing season in-reservoir surveys are included as Appendix A to this Annual Basic-Data Report. Time-series plots for the indicator in-reservoir variables (total phosphorus, chlorophyll-a, and Secchi depth) are given in Figures 4 through 6. Comparison of growing-season average total-phosphorus versus chlorophyll-a concentrations are shown in Figure 7; note that the 1995 data point falls in the upper left-hand end of the historical-period cluster of data points. Time-series plots for 2 biological variables (*asterionella formosa* and *aphanizomenon flos-aquae*), as well as average total cells are provided in Figures 8 through 10, respectively. In-reservoir water-column indicator-quality profiles for the 1995 season are presented in both graphic and tabular forms (Appendix B).

Mr. Ron Mitchell
March 12, 1996
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ASI appreciates having the opportunity to provide the Chatfield Basin Authority with continuing water-quality monitoring and data compilation services. This interim Basic-Data Report constitutes a deliverable under our 1995 calendar-year contract. If you have any questions, or need additional information, please give us a call.

Yours truly,



Tyler D. Smart, P.E.
Project Manager
Water-Resources Department

File: 8047.50

Attachments - Monitoring Site Locations Figures 1 through 3
- Water-Quality Basic Data Tables 1 through 6, January - December 1995
- Time-Series of 1995 Program Data, 1997-1995, Figures 4 through 10
- Appendices A, B and C

Distribution - See following page.

Mr. Ron Mitchell
March 12, 1996
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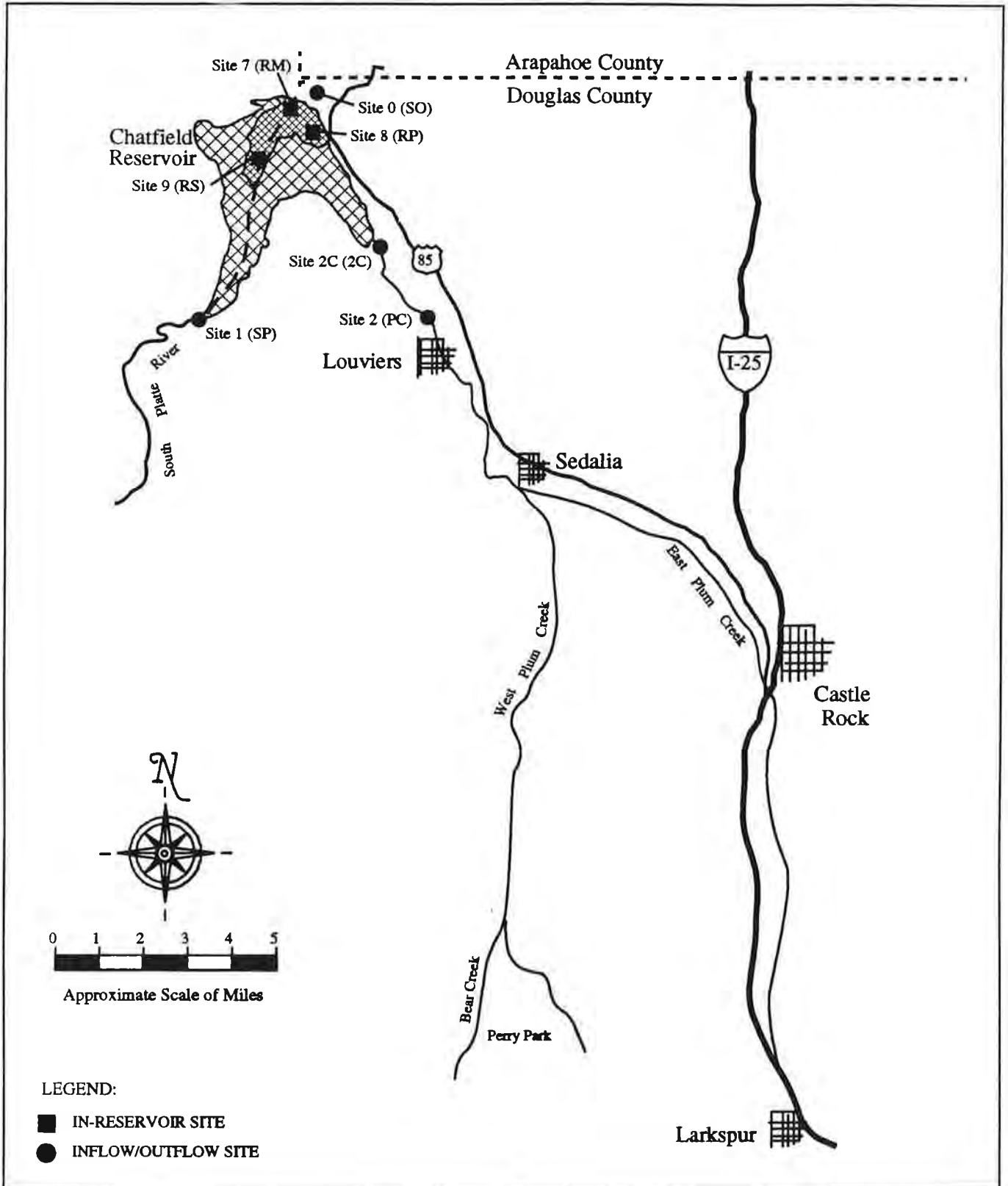
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1600 West 12th Avenue
Denver, CO 80254
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118 Third Street
Castle Rock, CO 80104
Attn: Mr. Donald Moore, AICP

U.S. Army Corps of Engineers
CEMRO-ED-HF
215 N. 17th Street
Omaha, NE 68102-4978
Attn: Dr. John L. Andersen
Mr. Tom Curran

Carruth Development Corporation
10579 Bradford Rd., Suite #104
Littleton, CO 80127
Attn: Dennis Carruth (973-3344)

FIGURES



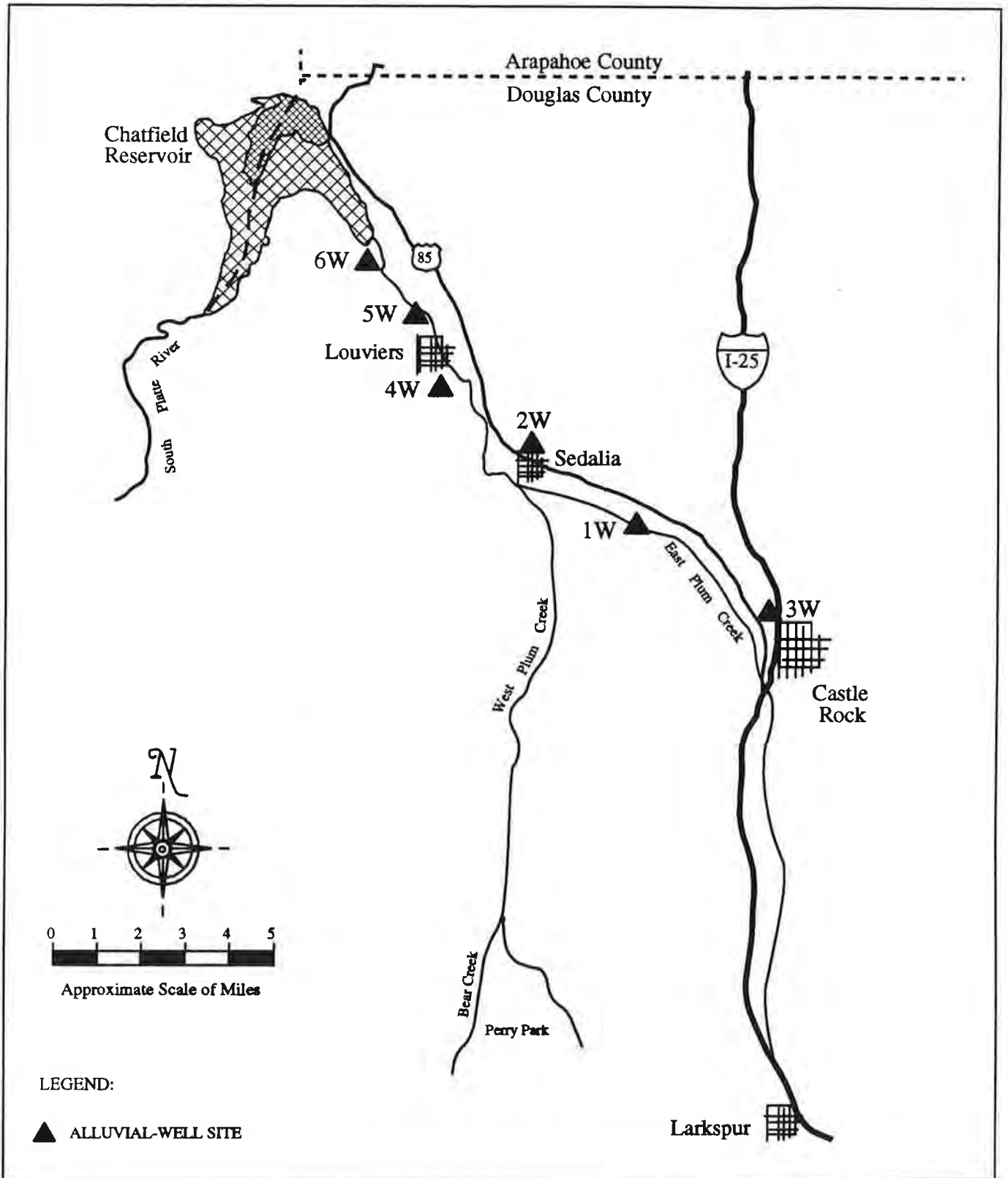
**INFLOW/OUTFLOW AND IN-RESERVOIR
MONITORING LOCATIONS**

**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

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FIGURE 1





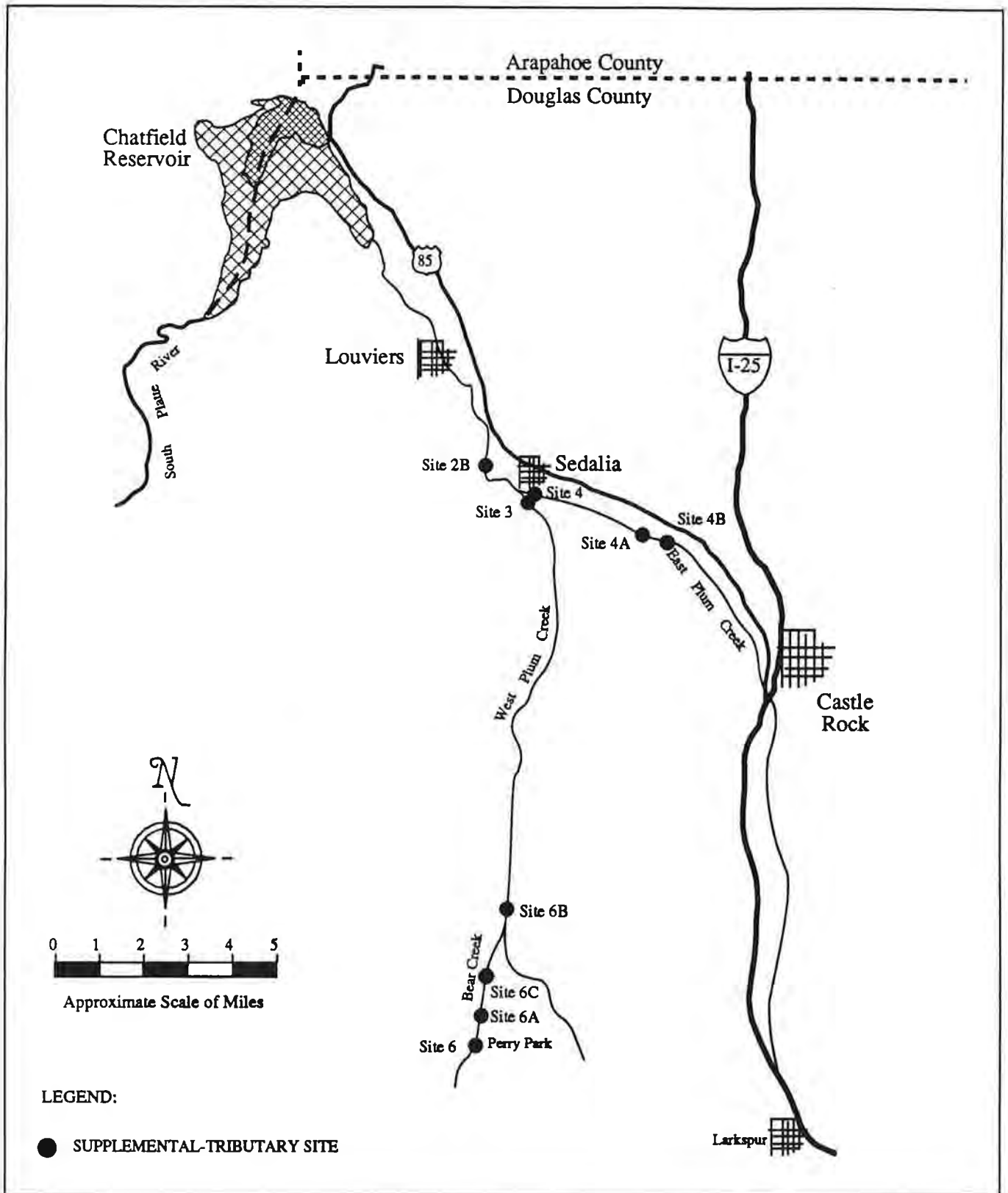
**ALLUVIAL-WELL
MONITORING LOCATIONS**

**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

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FIGURE 2





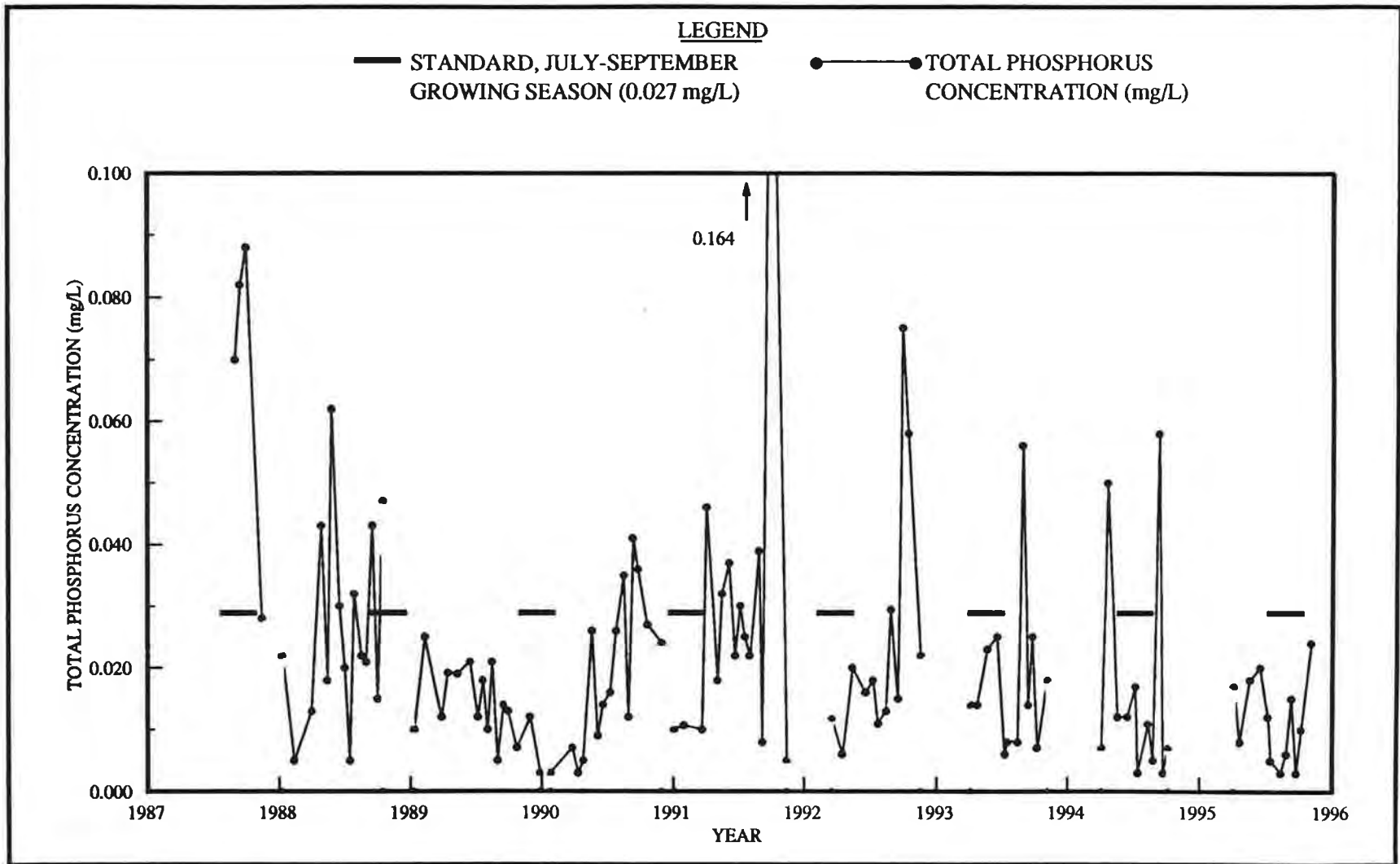
**MONITORING LOCATIONS
SUPPLEMENTAL-TRIBUTARY**

**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

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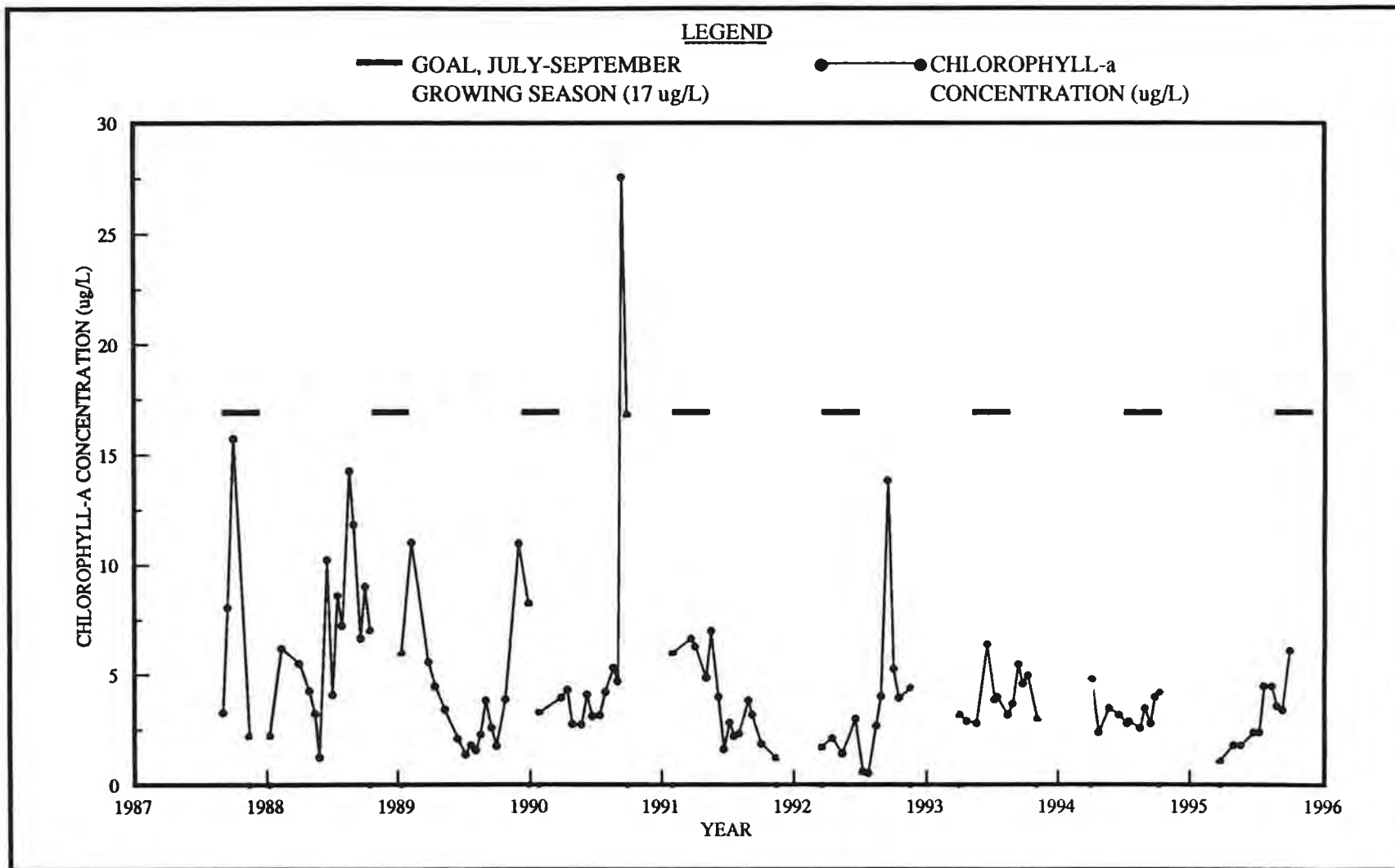
FIGURE 3





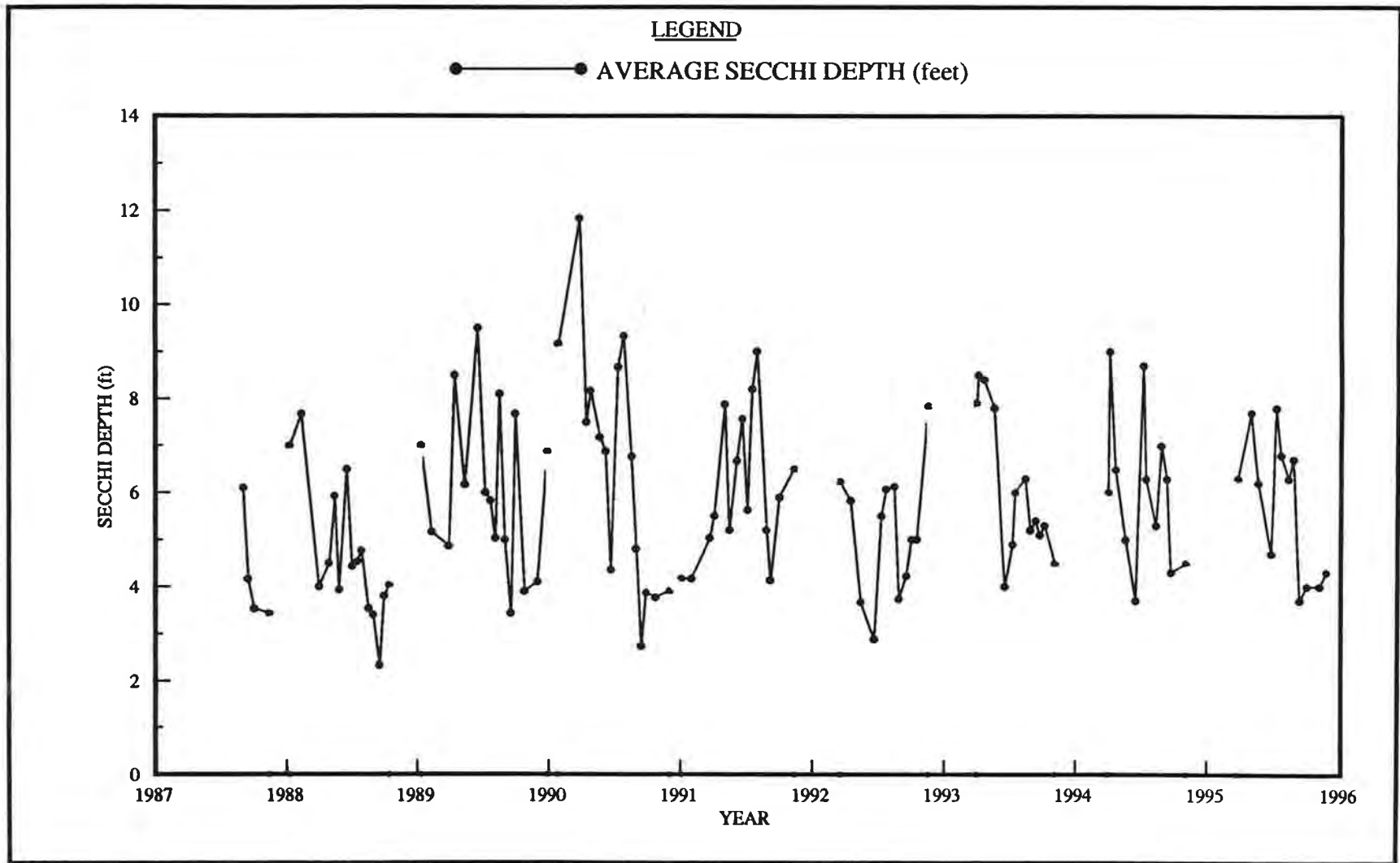
**TIME SERIES OF AVERAGE TOTAL PHOSPHORUS CONCENTRATION
CHATFIELD RESERVOIR 1987 - 1995**





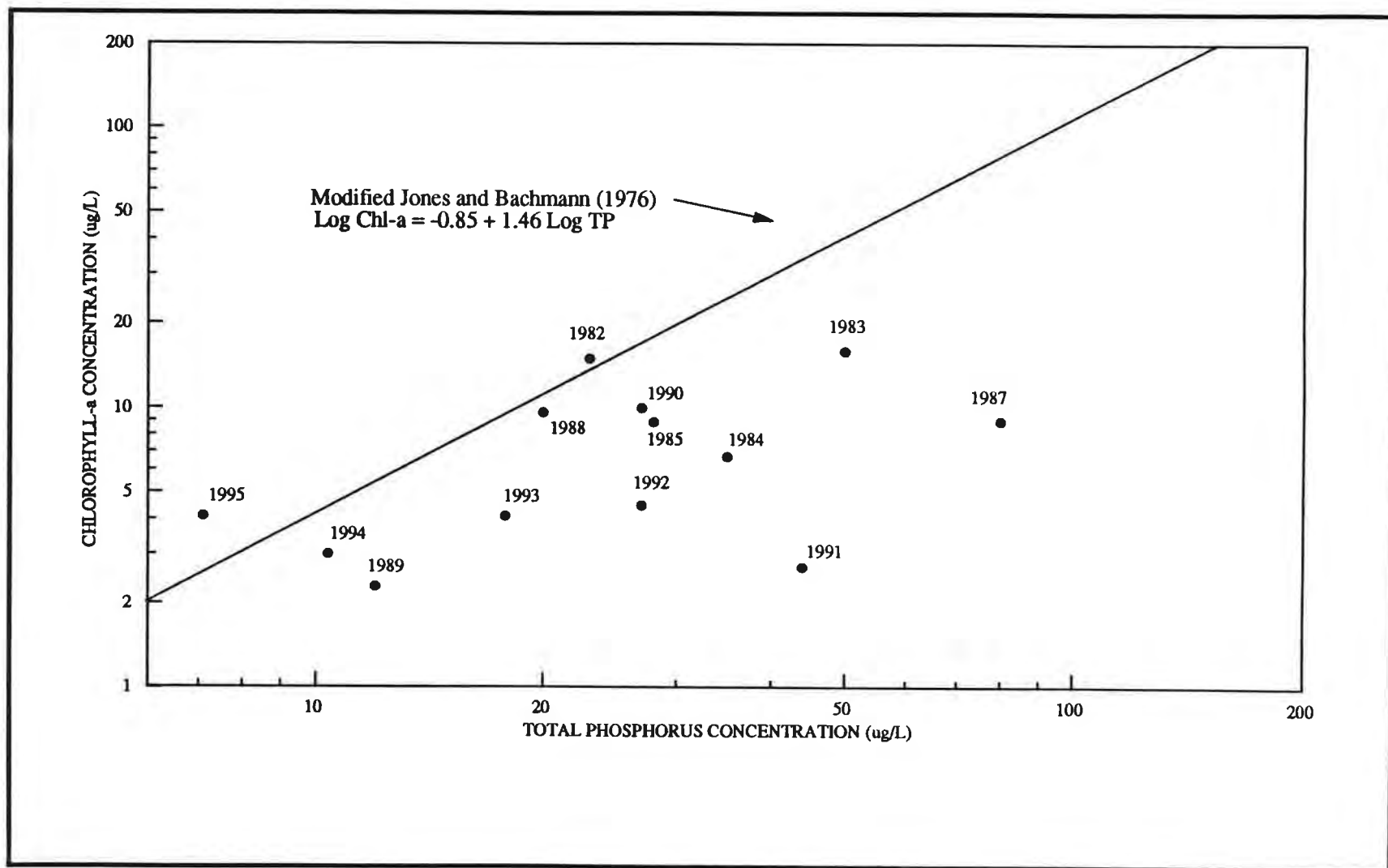
**TIME SERIES OF AVERAGE CHLOROPHYLL-a CONCENTRATION
CHATFIELD RESERVOIR 1987 - 1995**





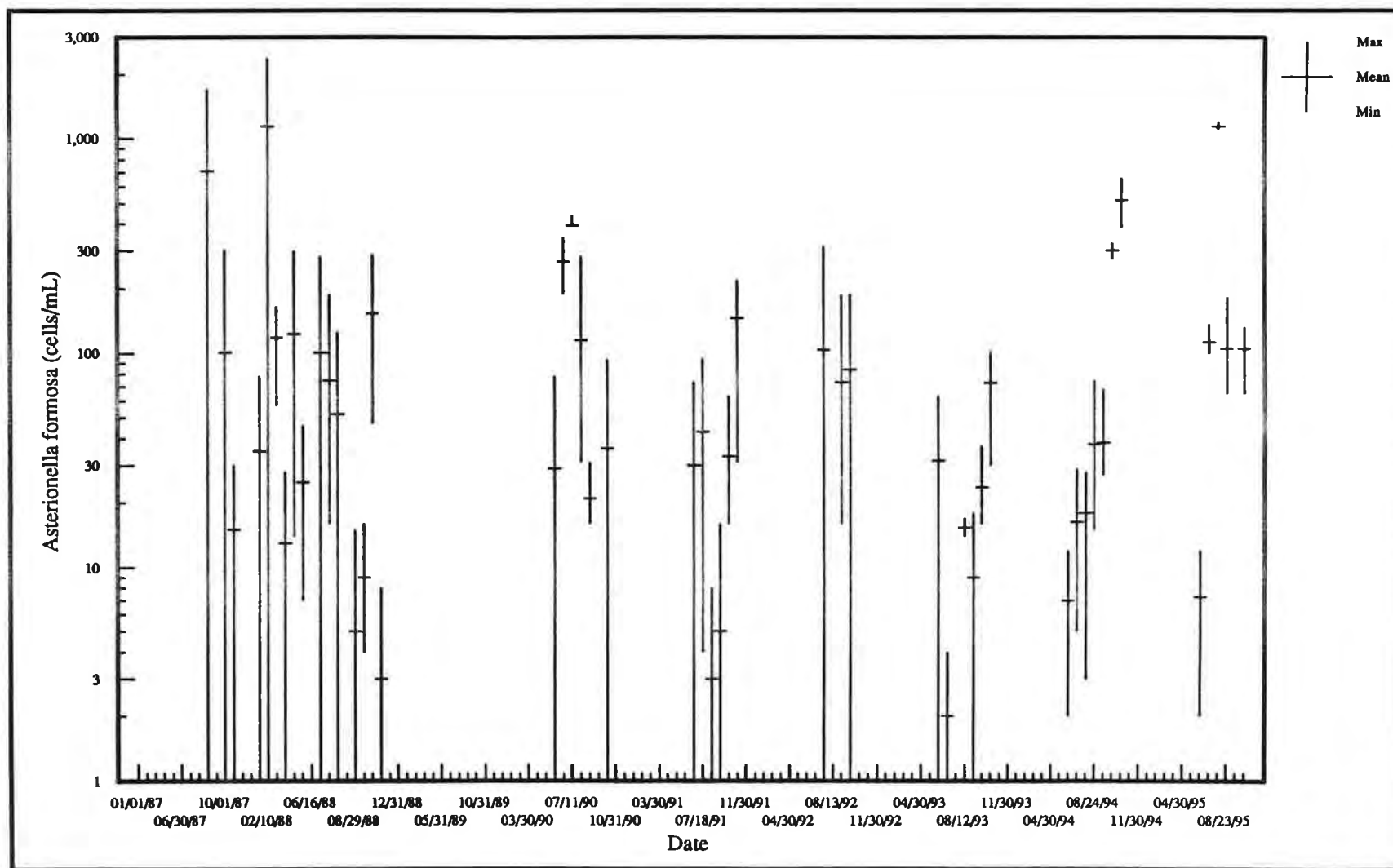
**TIME SERIES OF AVERAGE SECCHI DEPTH
CHATFIELD RESERVOIR 1987 - 1995**





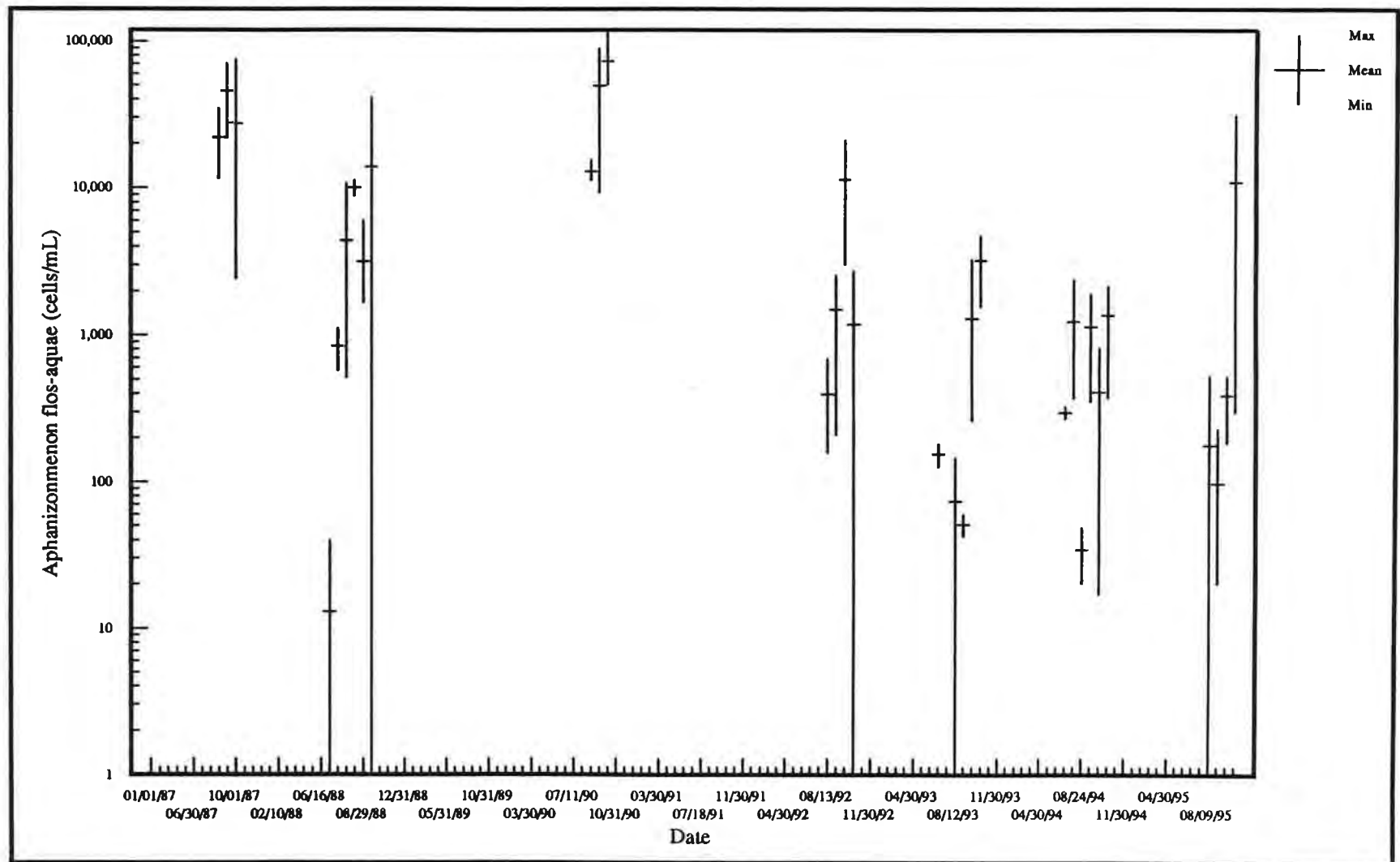
JULY THROUGH SEPTEMBER VALUES OF CHLOROPHYLL-a vs. TOTAL PHOSPHORUS
 CHATFIELD RESERVOIR 1982 - 1995





TIME SERIES OF MAXIMUM, MINIMUM, AND AVERAGE ASTERIONELLA FORMOSA
 CHATFIELD RESERVOIR 1987 - 1995





TIME SERIES OF MAXIMUM, MINIMUM, AND AVERAGE APHANIZOMENON FLOS-AQUAE
CHATFIELD RESERVOIR 1987 - 1995



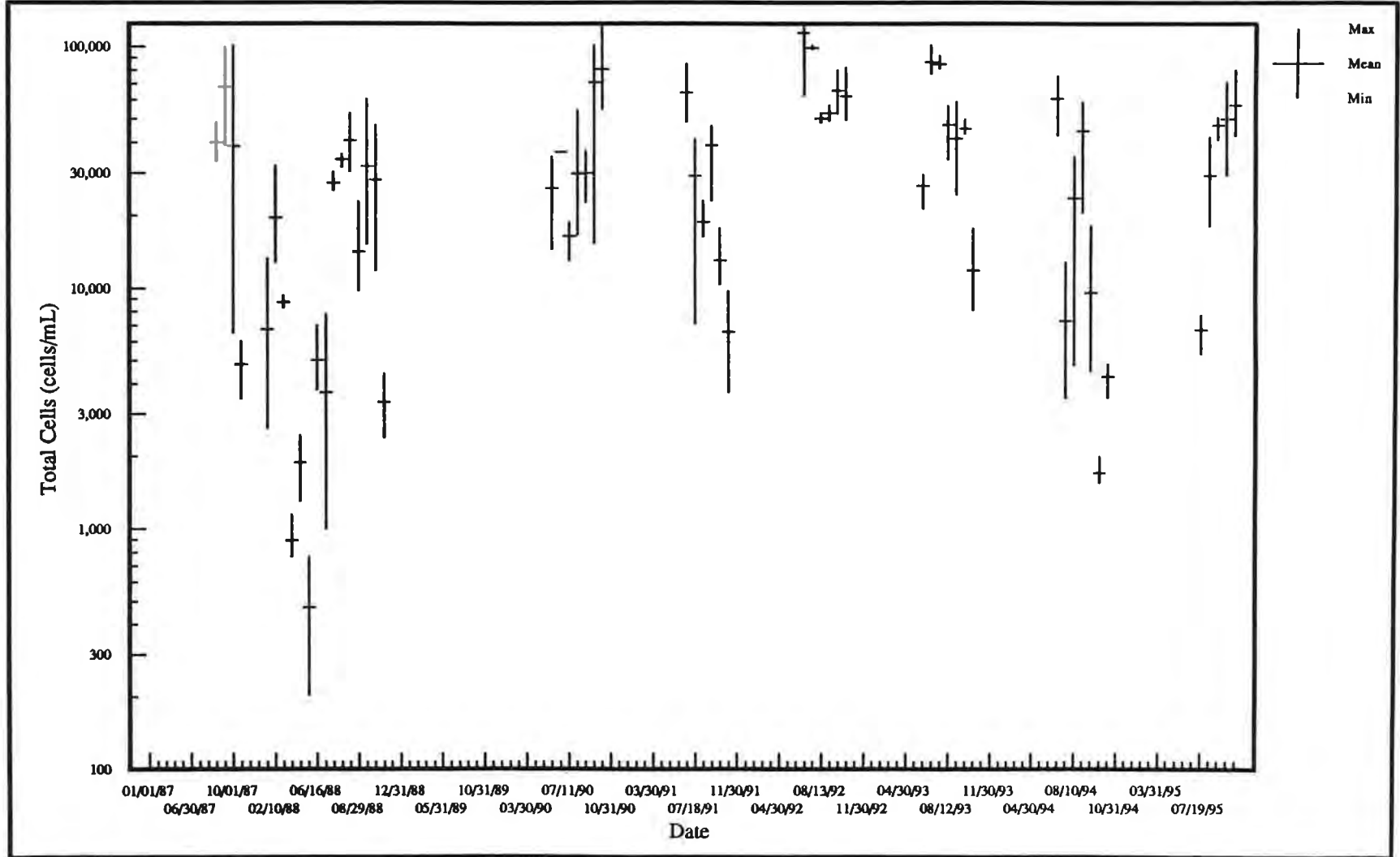
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CHATFIELD BASIN
MONITORING PROGRAM

Project No. 8047.50

Figure 9

Status: 3/11/96



TIME SERIES OF MAXIMUM, MINIMUM, AND AVERAGE TOTAL CELLS
CHATFIELD RESERVOIR 1987 - 1995



BASIC-DATA TABLES

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	SPECIFIC	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)	NITROGEN TOTAL (MG/L as N)
				CONDUCTANCE FIELD (US/CM)				
01-Feb-95	1350	6.1	27	360	10.9	8.2	34	0.03
19-Feb-95	1640	6.0	15	295	13.8	7.2	10	0.03
21-Mar-95	1225	10.5	40	230	15.8	8.0	4	0.04
28-Apr-95	1430	9.3	50	375	11.3	8.2	0	0.05
18-May-95	1450	12.9	500	350	4.5	8.2	66	0.12
22-Jun-95	1425	15.6	2275	175	8.6	7.7	14	0.09
06-Jul-95	955	15.4	3110	190	10.7	7.2	-10	0.08
19-Jul-95	1335	18.2	2720	210	10.7	7.9	5	0.02
09-Aug-95	1335	18.6	500	280	8.4	7.9		0.07
07-Sep-95	1355	18.0	150	305	7.7	7.8	4	0.05
01-Nov-95	1200	7.3		285	8.7	8.2	-10	-0.02
01-Nov-95	9999							-0.02
20-Nov-95	1310	6.6		330	9.9	8.2	3	-0.02
19-Dec-95	1255	3.3		340	9.5	8.2	0	-0.02

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

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L as N)	NITROGEN, NITRITE TOTAL (MG/L as N)	NITROGEN, NITRATE TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	SUSPENDED SEDIMENT (G/M ³)	LABORATORY SAMPLE NUMBER
01-Feb-95	1350	0.07	-0.01	0.03	0.010	-0.005	-5	L4591-01
19-Feb-95	1640	0.05	-0.01	0.03	0.011	-0.005	-2	L4733-01
21-Mar-95	1225	-0.05	-0.01	0.04	0.018	-0.005	4	L5035-08
28-Apr-95	1430	-0.05	-0.01	0.05	0.010	0.012	-2	L5451-03
18-May-95	1450	0.05	-0.01	0.12	0.047	0.018	24	L5732-08
22-Jun-95	1425	0.06	-0.01	0.09	0.024	-0.005	6	L6194-03
06-Jul-95	955	0.05	-0.01	0.08	-0.005	-0.005	6	L6354-08
19-Jul-95	1335	0.21	-0.01	0.02	-0.005	-0.005	3	L6509-08
09-Aug-95	1335	-0.05	-0.01	0.07	-0.005	-0.005	7	L6767-01
07-Sep-95	1355	-0.05	-0.01	0.05	0.013	0.005	-2	L7086-01
01-Nov-95	1200	-0.05	-0.01	-0.02	-0.005	0.014	5	L7754-07
01-Nov-95	9999	-0.05	-0.01	-0.02	0.005	0.009	5	L7754-09
20-Nov-95	1310	0.14	-0.01	-0.02	0.023	-0.005	8	L7971-07
19-Dec-95	1255	0.07	-0.01	-0.02	0.005	-0.005	-2	L8254-03

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., JANUARY 21, 1994)

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS STREAMFLOW (CFS) ¹⁾	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)	NITROGEN TOTAL (MG/L as N)
01-Feb-95	1420	1.3	31 ²⁾	320	11.8	7.9	42	0.12
01-Feb-95	9999	1.3	31 ²⁾	320	11.8	7.9	42	0.12
19-Feb-95	1705	3.0	52	305	14.9	8.4	17	0.11
21-Mar-95	1210	9.6	32	275	15.5	8.1	1	0.15
13-Apr-95	1010	6.0	37	235	12.1	6.0	0	0.20
21-Apr-95	1430	6.5	36	195	10.8	7.4	19	0.42
28-Apr-95	940	7.0	32	305	11.4	6.9	9	0.17
03-May-95	1355	8.4	34	220	10.4	7.9	11	0.13
10-May-95	1005	10.0	42	255	13.1	8.2	20	0.11
18-May-95	1430	11.4	457	200	5.3	8.4	18	0.23
24-May-95	1020	10.4	645	160	9.7	6.7		0.12
31-May-95	1101	15.1	1020	210	6.8	7.6		0.09
07-Jun-95	930	13.1	1570	190	7.4	6.8		0.07
07-Jun-95	9999							0.07
15-Jun-95	1625	14.0	1850	150				0.04
22-Jun-95	1405	14.9	2850	150	7.4	8.1	40	0.08
28-Jun-95	940	14.9	2580	200	7.0	8.0	21	0.05
06-Jul-95	1020	14.0	2280	210	9.1	7.7	-10	0.07
19-Jul-95	925	17.1	2220	235	8.8	7.8	25	0.03
09-Aug-95	1320	14.2	102	290	9.7	8.6		0.07
09-Aug-95	9999							0.07
07-Sep-95	1420	12.3	177	265	9.5	8.1	2	0.10
01-Nov-95	1140	4.6		290	9.9	8.2	-10	-0.02
20-Nov-95	1255	4.7		315	10.7	8.4	0	0.04
19-Dec-95	1155	1.2		320	9.9	7.6	2	0.05

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

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L as N)	NITROGEN, NITRITE TOTAL (MG/L as N)	NITROGEN, NITRATE TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	SUSPENDED SEDIMENT (G/M ³)	LABORATORY SAMPLE NUMBER
01-Feb-95	1420	0.05	-0.01	0.12	0.007	-0.005	-5	L4591-02
01-Feb-95	9999	0.06	-0.01	0.12	0.007	-0.005	-5	L4591-04
19-Feb-95	1705	-0.05	-0.01	0.11	-0.005	0.034	-2	L4733-02
21-Mar-95	1210	-0.05	-0.01	0.15	0.012	-0.005	2	L5035-09
13-Apr-95	1010	0.06	-0.01	0.20	0.019	-0.005	-2	L5279-01
21-Apr-95	1430	0.07	-0.01	0.42	0.050	-0.005	50	L5403-02
28-Apr-95	940	0.05	-0.01	0.17	-0.005	-0.005	-2	L5451-01
03-May-95	1355	-0.05	-0.01	0.13	-0.005	-0.005	4	L5526-02
10-May-95	1005	-0.05	-0.01	0.11	-0.005	-0.005	3	L5616-02
18-May-95	1430	0.06	-0.01	0.23	0.030	-0.005	15	L5732-09
24-May-95	1020	0.11	-0.01	0.12	0.062	0.009	15	L5800-02
31-May-95	1101	0.05	-0.01	0.09	0.043	-0.005	13	L5872-01
07-Jun-95	930	-0.05	-0.01	0.07	0.030	0.008	22	L5982-01
07-Jun-95	9999	-0.05	-0.01	0.07	0.033	0.006	11	L5982-03
15-Jun-95	1625	0.07	-0.01	0.04	0.616	-0.005	36	L6100-01
22-Jun-95	1405	0.06	-0.01	0.08	0.031	-0.005	26	L6194-02
28-Jun-95	940	0.09	-0.01	0.05	0.015	-0.005	34	L6278-01
06-Jul-95	1020	-0.05	-0.01	0.07	0.007	-0.005	16	L6354-09
19-Jul-95	925	0.17	-0.01	0.03	0.026	-0.005	14	L6509-09
09-Aug-95	1320	-0.05	-0.01	0.07	-0.005	-0.005	3	L6767-03
09-Aug-95	9999	-0.05	-0.01	0.07	-0.005	-0.005	3	L6767-04
07-Sep-95	1420	-0.05	-0.01	-0.05	0.006	-0.005	-2	L7086-02
01-Nov-95	1140	-0.05	-0.01	-0.02	-0.005	0.008	-2	L7754-08
20-Nov-95	1255	0.06	-0.01	0.04	0.013	0.009	2	L7971-08
19-Dec-95	1155	-0.05	-0.01	0.05	-0.005	-0.005	36	L8254-01

MINUS SIGN MEANS "LESS THAN" INDICATED VALUE.

TIME=9999 MEANS "_____"

1) COLORADO STATE ENGINEERS OFFICE (PROVISIONAL DAILY STREAMFLOW DATA)

2) ESTIMATED STREAMFLOW DATA

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS STREAMFLOW (CFS)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)	NITROGEN TOTAL (MG/L as N)
19-Feb-95	1750	7.5		390	11.4	7.7	29	0.79
21-Mar-95	1125	7.8		450	10.6	6.4	4	0.27
18-May-95	1350	13.3		235	5.7	7.8	202	0.33
09-Aug-95	1250	17.1		400	6.8	7.8		0.22
20-Nov-95	1205	5.2		400	8.9	7.6	1	0.24

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

DATE	TIME	NITROGEN AMMONIA TOTAL (MG/L as N)	NITROGEN NITRITE TOTAL (MG/L as N)	NITROGEN NITRATE TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS, ORTHO, TOTAL (MG/L as P)	SUSPENDED SEDIMENT (G/M ³)	LABORATORY SAMPLE NUMBER
19-Feb-95	1750	-0.05	-0.01	0.79	0.018	0.006	-2	L4733-04
21-Mar-95	1125	0.09	-0.01	0.27	0.035	0.007	4	L5035-11
18-May-95	1350	0.06	-0.01	0.33	0.297	0.113	316	L5732-11
09-Aug-95	1250	0.12	0.01	0.21	0.092	-0.005	18	L6767-02
20-Nov-95	1205	0.08	-0.01	0.24	0.039	0.032	2	L7971-10

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.

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS STREAMFLOW (CFS) "	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)	NITRATE/ NITRITE TOTAL (MG/L as N)
01-Feb-95	1445	6.6	6	435	12.7	6.4	70	0.68
19-Feb-95	1720	6.6	7	290	12.9	8.6	12	0.76
21-Mar-95	1150	13.8	5	400	15.3	8.0	2	0.24
13-Apr-95	1030	9.2	26	365	11.0	6.5	24	0.33
21-Apr-95	1500	10.3	50	350	11.4	7.7	57	0.42
28-Apr-95	1000	11.5	50	370	10.8	7.5	66	0.37
03-May-95	1330	12.8	38	290	9.9	7.0	32	0.20
10-May-95	1035	13.6	75	255	10.3	7.7	111	0.18
18-May-95	1410	15.9	541	205	4.7	8.1	266	0.30
24-May-95	1050	10.6	218	160	10.6	7.0		0.17
24-May-95	9999							0.18
31-May-95	1002	18.5	331	230	6.9	7.5		0.16
07-Jun-95	1015	15.9	147	210	6.9	6.1		0.12
15-Jun-95	1600	23.6	42	255				0.11
22-Jun-95	1345	25.0	62	285	5.7	8.1	73	0.18
28-Jun-95	1015	17.5	36	310	5.5	7.7	33	0.17
06-Jul-95	1345	23.3	140	245	8.2	7.9	85	0.14
19-Jul-95	940	18.6	45	230	8.0	7.6	140	0.14
09-Aug-95	1305	N DUE TO CONSTRUCTION. NO ACCESS.						
07-Sep-95	1435	* DRY.						
01-Nov-95	1210	* DRY.						
20-Nov-95	1225	7.8		395	7.3	7.9	24	0.37
19-Dec-95	1220	1.8		450	6.6	7.6	3	0.68

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

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L as N)	NITROGEN, NITRITE TOTAL (MG/L as N)	NITROGEN, NITRATE TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P) AS P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	SUSPENDED SEDIMENT (G/M ³)	LABORATORY SAMPLE NUMBER
01-Feb-95	1445	0.06	-0.01	0.68	0.033	0.010	21	L4591-03
19-Feb-95	1720	-0.05	-0.01	0.76	0.020	-0.005	5	L4733-03
21-Mar-95	1150	-0.05	-0.01	0.24	0.025	-0.005	9	L5035-10
13-Apr-95	1030	0.06	-0.01	0.33	0.071	-0.005	38	L5279-02
21-Apr-95	1500	0.07	-0.01	0.42	0.050	-0.005	50	L5403-02
28-Apr-95	1000	-0.05	-0.01	0.37	0.069	0.032	63	L5451-02
03-May-95	1330	0.15	-0.01	0.20	0.041	0.016	101	L5526-01
10-May-95	1035	-0.05	-0.01	0.18	0.075	-0.005	85	L5616-01
18-May-95	1410	-0.05	-0.01	0.30	0.318	0.094	351	L5732-10
24-May-95	1050	0.09	0.04	0.13	0.174	0.066	182	L5800-03
24-May-95	9999	0.08	0.05	0.13	0.256	0.071	213	L5800-04
31-May-95	1002	-0.05	0.01	0.15	0.129	0.029	125	L5872-02
07-Jun-95	1015	-0.05	-0.01	0.12	0.124	0.044	215	L5982-02
15-Jun-95	1600	0.05	0.01	0.10	0.098	0.033	98	L6100-02
22-Jun-95	1345	0.06	0.02	0.16	0.069	0.026	62	L6194-01
28-Jun-95	1015	0.06	-0.01	0.17	0.114	0.037	97	L6278-02
06-Jul-95	1345	-0.05	0.02	0.12	0.083	0.026	141	L6354-10
19-Jul-95	940	0.17	0.03	0.11	0.149	0.064	127	L6509-10
09-Aug-95	1305	* NO SAMPLE TAKEN DUE TO CONSTRUCTION. NO ACCESS.						
07-Sep-95	1435	* DRY.						
01-Nov-95	1210	* DRY.						
20-Nov-95	1225	0.09	-0.01	0.37	0.051	0.025	41	L7971-09
19-Dec-95	1220	-0.05	-0.01	0.68	0.015	-0.005	16	L8254-02

MINUS SIGN MEAN _____

BLANK RANGES INDICATE NO DATA WERE AVAILABLE.

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

1) USGS (PROVISIONAL DAILY STREAMFLOW DATA)

**TABLE 4
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA**

DATE	TIME	TOTAL DEPTH (FEET)	SAMPLING DEPTH (FEET)	TEMPERATURE (DEG C)	TRANSPARENCY SECCHI DISK (FEET)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)
21-Mar-95	1015			7.3	6.0	315	16.3	7.7	0
21-Mar-95	9999								
21-Mar-95	1010	41.0	39.0	6.6		320	15.3	7.8	0
28-Apr-95	1235			10.8	9.0	375	12.6	8.1	80
28-Apr-95	1230	38.0	36.0	8.9		405	13.5	8.0	3
18-May-95	1100			12.5	12.0	360	6.0	8.4	40
18-May-95	1115	34.0	32.0	11.7		365	7.8	8.4	56
22-Jun-95	1215			17.3	4.0	185	6.3	8.0	8
22-Jun-95	9999								
22-Jun-95	1225	50.0	43.0	13.8		165	5.0	6.8	19
06-Jul-95	1115			18.5	7.0	185	7.2	7.5	-10
06-Jul-95	1120	44.0	42.0	14.6		200	12.5	7.2	-10
19-Jul-95	1125			20.3	7.0	210	8.6	7.4	1
19-Jul-95	1120	43.0	41.0			NO FIELD PARAMETERS AVAILABLE.			
09-Aug-95	1130			20.4	5	280.0	8.5	8.2	-10
09-Aug-95	1135	40.0	34.0	17.1		280	4.0	7.5	-10
23-Aug-95	1200			22.9	7.0	295	8.2	7.8	3
23-Aug-95	1215	34.0	32.0	18.3		290	1.5	7.2	5
07-Sep-95	1135			19.6	7.0	320	7.8	7.5	2
07-Sep-95	1140	34.0	32.0	17.6		310	5.0	7.3	7
27-Sep-95	1130			14.4	6.0	260	9.2	8.4	
27-Sep-95	1135	28.0	26.0	13.9		260	7.7	8.4	
01-Nov-95	1040			8.8	5.0	280	8.8	8.3	-10
01-Nov-95	1050	36.0	34.0	8.6		280	8.8	8.2	-10
20-Nov-95	1050			6.8	5.0	325	9.1	8.3	2
20-Nov-95	9999								
20-Nov-95	1100	25.0	23.0	6.1		330	8.5	8.3	36

TABLE 4
CHATFIELD RESERVOIR NEAR DAM (SITE 7), RM
393319105033501
WATER-QUALITY DATA

DATE	TIME	SOLIDS RESIDUE AT 105 SUSPENDED (MG/L)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	CHLOROPHYLL A CORR. (UG/L)	PHYTOPLANKTON (SPECIES NUMBER)	LABORATORY SAMPLE NUMBER
21-Mar-95	1015	12	0.3	0.008	-0.005	1.2		L5035-03
21-Mar-95	9999	-5	0.3	0.015	-0.005			L5035-07
21-Mar-95	1010	8	0.2	0.015	-0.005			L5035-04
28-Apr-95	1235	394	0.2	0.008	0.012	1.8		L5451-04
28-Apr-95	1230	12	0.5	0.065	0.016			L5451-05
18-May-95	1100	-5	0.2	0.017	-0.005	1.4		L5732-03
18-May-95	1115	18	0.3	0.039	-0.005			L5732-04
22-Jun-95	1215	-5	0.3	0.020	-0.005	3.1		L6194-06
22-Jun-95	9999					6.7		
22-Jun-95	1225	-5	0.4	0.025	-0.005			L6194-07
06-Jul-95	1115	8	-0.1	0.015	-0.005	1.8	9	L6354-03
06-Jul-95	1120	8	0.4	0.018	-0.005			L6354-04
19-Jul-95	1125	12	0.2	-0.005	-0.005	4.7	16	L6509-04
19-Jul-95	1120	14	0.3	-0.005	-0.005			L6509-05
09-Aug-95	1130	-5	0.3	-0.005	-0.005	4.6	22	L6767-07
09-Aug-95	1135	6	0.9	0.010	-0.005			L6767-08
23-Aug-95	1200	-5	0.3	-0.005	0.009	5.0	19	L6911-01
23-Aug-95	1215	14	0.4	0.020	0.011			L6911-02
07-Sep-95	1135	-5	0.2	0.006	0.007	3.3	23	L7086-03
07-Sep-95	1140	-5	0.2	0.007	0.007			L7086-04
27-Sep-95	1130	6	0.2	-0.005	-0.005	7.8	20	L7326-01
27-Sep-95	1135	12	0.2	-0.005	-0.005			L7326-02
01-Nov-95	1040	-5	0.3	0.009	-0.005			L7754-01
01-Nov-95	1050	-5	0.2	0.007	-0.005			L7754-02
20-Nov-95	1050	6	0.1	0.014	-0.005			L7971-01
20-Nov-95	9999	12	0.3	0.023	0.009			L7971-11
20-Nov-95	1100	6	0.2	0.013	-0.005			L7971-02

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.

**TABLE 5
CHATFIELD RESERVOIR NEAR PLUM CREEK INFLOW (SITE 8), RP
393248105030201
WATER-QUALITY DATA**

DATE	TIME	TOTAL DEPTH (FEET)	SAMPLING DEPTH (FEET)	TEMPERATURE (DEG C)	TRANSPARENCY SECCHI DISK (FEET)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)
21-Mar-95	1045			7.4	7.0	315	16.0	7.9	1
21-Mar-95	9999								
21-Mar-95	1040	16.0	14.0	7.3		315	16.0	7.8	3
28-Apr-95	1350			9.9	9.0	380	12.1	8.1	3
28-Apr-95	9999								
28-Apr-95	1345	17.0	15.0	9.2		380	12.6	8.1	3
18-May-95	1130			13.1	1.5	350	3.9	8.3	17
18-May-95	1140	17.0	15.0	8.3		280	6.6	7.8	208
22-Jun-95	1145			17.4	5.0	185	6.4	8.2	6
22-Jun-95	1155	24.0	22.0	15.4		185	5.1	8.0	13
06-Jul-95	1225			17.7	8.3	185	8.4	7.2	1
06-Jul-95	1220	31.0	29.0	14.0		200	7.7	7.0	6
19-Jul-95	1205			20.3	5.5	215	8.4	8.0	2
19-Jul-95	9999								
19-Jul-95	1200	14.0	12.0	17.9		215	6.4	7.5	4
09-Aug-95	1215			20.5	7.0	280	8.6	8.4	-10
09-Aug-95	1220	17.0	15.0	18.8		285	5.1	7.7	-10
23-Aug-95	1110			22.6	7.0	295	7.9	7.7	2
23-Aug-95	1115	12.5	10.5	21.9		300	6.9	7.3	15
07-Sep-95	1315			19.3	2.0	320	7.3	7.9	16
07-Sep-95	9999								
07-Sep-95	1320	12.0	10.0	19.1		320	7.0	7.8	23
27-Sep-95	1055			14.3	3.0	260	8.6	8.3	
27-Sep-95	1100	14.0	12.0	13.9		260	8.3	8.2	
01-Nov-95	1015			8.0	2.0	290	9.0	8.1	-10
01-Nov-95	1025	9.0	7.0	8.0		290	8.7	8.1	-10
20-Nov-95	1140			5.9	4.0	335	8.7	8.5	2
20-Nov-95	1150	9.0	7.0	5.8		335	8.7	8.5	1

TABLE 5
CHATFIELD RESERVOIR NEAR PLUM CREEK INFLOW (SITE 8), RP
393248105030201
WATER-QUALITY DATA

DATE	TIME	SOLIDS RESIDUE AT 105 SUSPENDED (MG/L)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	CHLOROPHYLL A CORR. (UG/L)	PHYTOPLANKTON (SPECIES NUMBER)	LABORATORY SAMPLE NUMBER
21-Mar-95	1045	6	0.4	0.024	-0.005	0.8		L5035-01
21-Mar-95	9999					0.9		N/A
21-Mar-95	1040	8	0.2	0.036	-0.005			L5035-02
28-Apr-95	1350	34	0.3	0.007	0.008	1.4		L5451-06
28-Apr-95	9999	26	0.3	-0.005	-0.005			L5451-10
28-Apr-95	1345	12	0.2	0.013	0.008			L5451-07
18-May-95	1130	-5	0.3	0.028	-0.005	2.8		L5732-01
18-May-95	1140	-5	0.4	0.347	-0.005			L5732-02
22-Jun-95	1145	-5	0.4	0.021	-0.005	1.8		L6194-04
22-Jun-95	1155	-5	0.4	0.026	-0.005			L6194-05
06-Jul-95	1225	10	0.3	0.018	-0.005	2.8	10	L6354-01
06-Jul-95	1220	8	0.4	0.013	-0.005			L6354-02
19-Jul-95	1205	22	-0.1	0.011	-0.005	5.4	20	L6509-02
19-Jul-95	9999	28	0.2	0.010	-0.005			L6509-01
19-Jul-95	1200	6	0.2	0.009	-0.005			L6509-03
09-Aug-95	1215	-5	0.4	-0.005	-0.005	4.7	19	L6767-09
09-Aug-95	1220	12	0.3	0.014	0.008			L6767-10
23-Aug-95	1110	-5	0.3	0.009	-0.005	2.8	14	L6911-05
23-Aug-95	1115	-5	0.3	0.009	-0.005			L6911-06
07-Sep-95	1315	-5	0.2	0.012	0.009	3.7	24	L7086-07
07-Sep-95	9999					3.7		
07-Sep-95	1320	-5	0.3	0.012	0.010			L7086-08
27-Sep-95	1055	12	0.2	-0.005	-0.005	4.4	24	L7326-05
27-Sep-95	1100	-5	0.3	-0.005	-0.005			L7326-06
01-Nov-95	1015	-5	0.2	0.005	-0.005			L7754-05
01-Nov-95	1025	-5	0.2	0.007	-0.005			L7754-06
20-Nov-95	1140	-5	0.1	0.029	-0.005			L7971-05
20-Nov-95	1150	6	0.2	0.040	-0.005			L7971-06

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.

TABLE 6
CHATFIELD RESERVOIR NEAR SOUTH PLATTE RIVER INFLOW (SITE 9), RS
393212015042701
WATER-QUALITY DATA

DATE	TIME	TOTAL DEPTH (FEET)	SAMPLING DEPTH (FEET)	TEMPERATURE (DEG C)	TRANSPARENCY SECCHI DISK (FEET)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	TURBIDITY (NTUS)
21-Mar-95	925			7.8	6.0	315	16.1	7.1	2
21-Mar-95	920	16.0	14.0	7.3		315	15.9	7.3	1
28-Apr-95	1315			10.8	5.0	370	11.8	8.2	1
28-Apr-95	1320	14.0	12.0	9.3		370	12.9	8.3	0
18-May-95	1240			12.7	5.0	345	4.1	8.4	5
18-May-95	9999								
18-May-95	1250	15.0	13.0	11.4		325	5.2	8.1	11
22-Jun-95	1255			17.9	5.0	190	6.4	8.1	5
22-Jun-95	1300	24.0	22.0	14.6		170	5.9	7.3	29
06-Jul-95	1305			17.8	8.0	185	8.2	7.4	1
06-Jul-95	9999								
06-Jul-95	1300	28.0	26.0	13.5		210	8.5	7.4	13
19-Jul-95	1255			21.1	8.0	230	8.0	8.1	1
19-Jul-95	1250	16.0	14.0	17.4		230	7.7	7.7	15
09-Aug-95	1100			20.9	7.0	280	8.3	8.0	-10
09-Aug-95	1105	13.0	11.0	20.3		280	8.6	8.0	-10
23-Aug-95	1135			22.0	6.0	300	8.2	7.7	3
23-Aug-95	1130	8.5	6.5	21.3		300	8.1	8.1	3
07-Sep-95	1220			19.6	2.0	310	7.7	7.8	9
07-Sep-95	1225	8.0	6.0	19.5		315	7.8	7.8	9
27-Sep-95	1230			15.2	3.0	260	8.4	8.8	
27-Sep-95	9999								
27-Sep-95	1235	8.0	6.0	14.7		260	8.6	8.7	
01-Nov-95	1110			8.3	5.0	285	8.5	8.4	-10
01-Nov-95	1120	9.0	7.0	8.4		285	8.8	8.4	-10
20-Nov-95	1120			6.3	4.0	335	8.9	8.4	3
20-Nov-95	1130	12.0	10.0	6.1		335	8.1	8.5	5

TABLE 6
CHATFIELD RESERVOIR NEAR SOUTH PLATTE RIVER INFLOW (SITE 9), RS
393212015042701
WATER-QUALITY DATA

DATE	TIME	SOLIDS RESIDUE AT 105 SUSPENDED (MG/L)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	CHLOROPHYLL A CORR. (UG/L)	PHYTOPLANKTON (SPECIES NUMBER)	LABORATORY SAMPLE NUMBER
21-Mar-95	925	8	0.2	0.020	-0.005	1.4		L5035-05
21-Mar-95	920	8	0.5	0.027	-0.005			L5035-06
28-Apr-95	1315	8	0.1	0.009	-0.005	2.2		L5451-08
28-Apr-95	1320	10	0.2	0.020	0.016			L5451-09
18-May-95	1240	-5	0.2	0.009	-0.005	1.3		L5732-05
18-May-95	9999	-5	-0.1	0.010	-0.005			L5732-07
18-May-95	1250	8	0.1	0.026	-0.005			L5732-06
22-Jun-95	1255	-5	0.3	0.020	-0.005	2.2		L6194-08
22-Jun-95	1300	8	0.5	0.031	-0.005			L6194-09
06-Jul-95	1305	6	0.8	-0.005	-0.005	2.5	8	L6354-05
06-Jul-95	9999	-5	0.5	0.011	-0.005			L6354-07
06-Jul-95	1300	10	0.7	0.017	-0.005			L6354-06
19-Jul-95	1255	26	0.2	-0.005	-0.005	3.3	16	L6509-06
19-Jul-95	1250	28	-0.1	-0.005	-0.005			L6509-07
09-Aug-95	1100	-5	0.2	-0.005	-0.005	4.1	20	L6767-05
09-Aug-95	1105	-5	0.2	0.005	-0.005			L6767-06
23-Aug-95	1135	-5	0.2	0.005	-0.005	3.0	25	L6911-03
23-Aug-95	1130	-5	0.5	0.006	-0.005			L6911-04
07-Sep-95	1220	-5	0.2	0.026	-0.005	3.1	27	L7086-05
07-Sep-95	1225	-5	0.3	0.008	0.006			L7086-06
27-Sep-95	1230	6	0.2	-0.005	-0.005	6.1	21	L7326-03
27-Sep-95	9999	24	0.2	-0.005	-0.005			L7326-07
27-Sep-95	1235	8	0.2	-0.005	-0.005			L7326-04
01-Nov-95	1110	-5	0.3	0.016	-0.005			L7754-03
01-Nov-95	1120	-5	0.3	0.018	-0.005			L7754-04
20-Nov-95	1120	8	0.2	0.029	-0.005			L7971-03
20-Nov-95	1130	-5	0.2	0.030	-0.005			L7971-04

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 VALUE IMMEDIATELY ABOVE.

TABLE 7
ALLUVIAL WELL NEAR PLUM CREEK WASTEWATER AUTHORITY WWTP (SITE 1W)
392520104542001
WATER-QUALITY DATA

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS, TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	LABORATORY SAMPLE NUMBER
15-Jun-95	1400	13.6	400		7.2	0.2	0.016	-0.005	L6100-03

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.

TABLE 8
ALLUVIAL WELL NEAR TOWN OF SEDALIA (SITE 2W)
392620104574001
WATER-QUALITY DATA

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	LABORATORY SAMPLE NUMBER
15-Jun-95	1415	13.1	380		7.6	2.7	0.137	0.084	L6100-04

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.

TABLE 9
ALLUVIAL WELL IN TOWN OF CASTLE ROCK WELL FIELD (SITE 3W)
392145104513001
WATER-QUALITY DATA

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	LABORATORY SAMPLE NUMBER
15-Jun-95	1515	13.6	415		7.4	4.8	0.059	0.045	L6100-05

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.

TABLE 11
ALLUVIAL WELL NEAR PLUM CREEK AT LOUVIERS ROAD (SITE 5W)
392905105000501
WATER-QUALITY DATA

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE FIELD (US/CM)	OXYGEN, DISSOLVED (MG/L)	pH, FIELD (STANDARD UNITS)	NITROGEN TOTAL (MG/L as N)	PHOSPHORUS TOTAL (MG/L as P)	PHOSPHORUS ORTHO, TOTAL (MG/L as P)	LABORATORY SAMPLE NUMBER
15-Jun-95	1550	13.2	395		7.6	-0.1	-0.005	-0.005	L6100-06

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.

APPENDIX A

PHYTOPLANKTON SPECIES AND DENSITY - 1995 CY (with comparative chlorophyll-a results)

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⁾
1982	0.023	15
1983	0.050	16
1984	0.035	6.7
1985	0.028	8.9
1986	4)	4)
1987	0.080	9.0
1988	0.020	9.6
1989	0.012	2.3
1990	0.027	10
1991	0.044	2.7
1992	0.027	4.5
1993	0.018	4.1
1994	0.013	3.1
1995	<u>0.007</u>	<u>4.1</u>
Mean	0.030	7.4
Std. Dev.	0.019	4.3
Maximum	0.080	16.0
Minimum	0.007	2.3
N	13	13

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

TABLE A-2
PHYTOPLANKTON, DATA 1995 SURVEY RESULTS
CHATFIELD RESERVOIR

Date (mm/dd/yy) Site Identification	07/06/95			07/19/95			08/09/95		
	RM*	RP*	RS*	RM	RP	RS	RM	RP	RS
BACILLARIOPHYTA									
<i>Asterionella formosa</i>			8	137.5	100	102.5	1117.5	1210	1110
<i>Aulacoseira (Melosira) granulata</i>									
var. <i>angustissima</i>	8	20	2				45	155	5
var. <i>granulata</i>	2	30	2				50	25	2.5
<i>Aulacoseira italica</i>								7.5	
<i>Cyclotella bodanica</i>							5	2.5	
<i>Cyclotella meneghiniana</i>									
<i>Cyclotella</i> sp.									
<i>Fragilaria (Synedra) acus</i>							2.5		
<i>Fragilaria crotonensis</i>							75	17.5	185
<i>Fragilaria (Synedra) cyclopum</i>	1	3		5	2.5				2.5
<i>Fragilaria (Synedra) ulna</i>									
<i>Navicula capitata</i>									
<i>Nitzschia aciculans</i>									
<i>Nitzschia (ignorata) nana</i>									
<i>Nitzschia palea</i>									
<i>Nitzschia</i> sp.									
<i>Nitzschia vermicularis</i>									
<i>Stephanodiscus hantzschii</i>									
<i>Stephanodiscus niagarae</i>				2.5		2.5		2.5	
CHLOROPHYTA									
<i>Ankyra judayi</i>	3	1	3	75	77.5	35	125	62.5	62.5
<i>Cartena</i> sp.									
<i>Chlamydomonas dinobryonis</i>									188
<i>Chlamydomonas globosa</i>						15	31		
<i>Chlamydomonas</i> sp. 1				62.5	62.5	62.5	62.5		
<i>Chlamydomonas</i> sp. 2									
<i>Chlorella</i> sp.				62.5	125	125	312.5	437.5	312.5
<i>Choricystis (Coccomyxa) minor</i>				6250	4500	3687.5	24437.5	39937.5	14687.5
<i>Elakatochrix viridis</i>									
<i>Eremosphaera gigas</i>						30	15		10
<i>Eudorina elegans</i>				40					
<i>Eutetramorus</i> sp.						20			
<i>Kirchneriella lunaris</i>						15			
<i>Lagerheimia genevensis</i>						31			
<i>Monoraphidium griffithii</i>						2.5			
<i>Pandorina morum</i>				30	105	120			12.5
<i>Pediastrum boryanum</i>									
<i>Scenedesmus brevispina</i>									
<i>Spirogyra</i> sp.	1								
<i>Volvox</i> sp.							300		
CHRYSOPHYTA									
<i>Chromulina</i> sp.				125					
<i>Dinobryon divergens</i>							67.5	40	70
<i>Mallomonas akrokomos</i>				15	17.5	2.5	2.5		
<i>Mallomonas</i> sp.				15	30	15			
CRYPTOPHYTA									
<i>Chroomonas acuta</i>	1	2	2	750	1659	1125	250	62.5	62.5
<i>Cryptomonas marsonii</i>		1		155	42.5	15	2.5	2.5	2.5
<i>Cryptomonas reflexa</i>	1	11	5	75	142.5	12.5			2.5
<i>Cryptomonas rostratiformis</i>	1	9	1	15	40	2.5	2.5		
CYANOPHYTA									
<i>Anabaena flos-aquae</i>					20	10	30	295	220
<i>Anabaena spiroides</i>								5	
<i>Aphanizomenon flos-aquae</i>									535
<i>Aphanocapsa delicatissima</i>							250	94	312.5
<i>Aphanothece</i> sp. 1					62.5		375	188	250
<i>Aphanothece</i> sp. 2									
<i>Dactylococcopsis fascicularis</i>								31	
<i>Merismopedia tenuissima</i>									
<i>Microcystis aeruginosa</i>									
<i>Pseudanabaena mucicola</i>									
EUGLENOPHYTA									
<i>Euglena</i> sp.									
<i>Trachelomonas gibberosa</i>									
PYRRROPHYTA									
<i>Ceratium hirundinella</i>		1	1			5	5	10	10
TOTAL DENSITY (cells/mL)	20	90	24	781.5	708.5	5338	27564	42586	18043
Number of Species	9	10	8	16	20	16	22	19	20

*Bottle top deteriorated into sample

TABLE A-2
PHYTOPLANKTON, DATA 1995 SURVEY RESULTS
CHATFIELD RESERVOIR

Date (mm/dd/yy) Site Identification	08/23/95			09/07/95			09/27/95			Species Totals
	RM	RP	RS	RM	RP	RS	RM	RP	RS	
BACILLARIOPHYTA										
<i>Asterionella formosa</i>	182.5	65	70				132.5	65	120	4434.5
<i>Aulacoseira (Melosira) granulata</i>										
var. <i>angustissima</i>	537.5	692.5	360	176	265	16	52.5	85	180	2599.5
var. <i>granulata</i>	50	10	5	1		34	100	182.5	65	559
<i>Aulacoseira italica</i>										7.5
<i>Cyclotella bodanica</i>		2.5								10
<i>Cyclotella meneghiniana</i>								10		10
<i>Cyclotella</i> sp.							220	220	62.5	502.5
<i>Fragilaria (Synedra) acus</i>			2.5							5
<i>Fragilaria crotonensis</i>	95	5	25	14	38	3	5	15	155	632.5
<i>Fragilaria (Synedra) cycloporum</i>										14
<i>Fragilaria (Synedra) ulna</i>					1	1				2
<i>Navicula capitata</i>						2.5				2.5
<i>Nitzschia acicularis</i>						15		31	62.5	108.5
<i>Nitzschia (ignorata) nana</i>				1	1					2
<i>Nitzschia palea</i>				1	2	5		15.5		23.5
<i>Nitzschia</i> sp.					5					5
<i>Nitzschia vermicularis</i>						5				5
<i>Stephanodiscus hantzschii</i>			20							20
<i>Stephanodiscus niagarae</i>			2.5		5	2	2.5	7.5	12.5	39.5
CHLOROPHYTA										
<i>Ankyra judayi</i>	187.5	62.5	62.5	250	62.5	62.5	17.5	12.5	15	1177
<i>Carteria</i> sp.								15.5		15.5
<i>Chlamydomonas dinobryonis</i>										188
<i>Chlamydomonas globosa</i>										46
<i>Chlamydomonas</i> sp. 1						375	62.5	62.5	62.5	812.5
<i>Chlamydomonas</i> sp. 2					2.5		15.6			18.1
<i>Chlorella</i> sp.	62.5	125	312.5	375	562.5	187.5	562.5	187.5	125	3875
<i>Choricystis (Coccomyxa) minor</i>	35000	31437.5	36625	6937.5	20875	3312.5	33875	35187.5	39125	335875
<i>Elakatothrix viridis</i>			5	5						10
<i>Eremosphaera gigas</i>										55
<i>Eudorina elegans</i>			10							50
<i>Eutetramorus</i> sp.										20
<i>Kirchneriella lunaris</i>										15
<i>Lagerheimia genevensis</i>										31
<i>Monoraphidium griffithii</i>			2.5	2.5		5				12.5
<i>Pandorina morum</i>	2		40							309.5
<i>Pediastrum boryanum</i>							80			80
<i>Scenedesmus brevispina</i>			2.5							2.5
<i>Spirogyra</i> sp.										1
<i>Volvox</i> sp.										300
CHRYSTOPHYTA										
<i>Chromulina</i> sp.						250				375
<i>Dinobryon divergens</i>	3	50	7.5	83	65	34				420
<i>Mallomonas akrokomos</i>				7.5	2.5	2.5	17.5	12.5	5	85
<i>Mallomonas</i> sp.				2.5						62.5
CRYPTOPHYTA										
<i>Chroomonas acuta</i>	2562.5	125	125	1625	1375	3937.5	1000	1534	1690	17888
<i>Cryptomonas marsonii</i>	15			22.5	17.5	2.5	147.5	100	42.5	568.5
<i>Cryptomonas reflexa</i>	17.5	20	7.5	57.5	35	15	125	190	92.5	809.5
<i>Cryptomonas rostratiformis</i>	2.5			12.5	12.5	2	55	32.5	30	218
CYANOPHYTA										
<i>Anabaena flos-aquae</i>	70		115	20						780
<i>Anabaena spiroides</i>	5	5		28		4				47
<i>Aphanizomenon flos-aquae</i>	40	235	20	527	184	466	31989	300	1010	35306
<i>Aphanocapsa delicatissima</i>			62.5		500		1000	62.5	375	2656.5
<i>Aphanothece</i> sp. 1	6437.5		10500	61000	26000	19625	11125	4312.5	5562.5	145438
<i>Aphanothece</i> sp. 2				525	250					775
<i>Dactylococcopsis fascicularis</i>					62.5					93.5
<i>Menismopedia tenuissima</i>	6250	8187.5	1500			1000				16937.5
<i>Microcystis aeruginosa</i>				10				125	563	698
<i>Pseudanabaena mucicola</i>			12.5			15				27.5
EUGLENOPHYTA										
<i>Euglena</i> sp.					1	1		3		4.5
<i>Trachelomonas gibberosa</i>					1					1
PYRRROPHYTA										
<i>Ceratium hirundinella</i>	2		5							5
TOTAL DENSITY (cells/mL)	51522	41023	49900	71684	50326	29381	80585	42769	49361	
Number of Species	19	14	25	23	24	27	20	24	21	60

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 21 March 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	1.2
RP	1.0	0.8
RS	1.0	1.4
XXX	1.0	0.9

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 28 April 1995

Sample Code	Volume Filtered, l	Chlorophyll a, µg/l
RM	1.0	1.8
RP	1.0	1.4
RS	1.0	2.2

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 18 May 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	1.4
RP	1.0	2.8
RS	1.0	1.3

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 22 June

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	3.1
RP	1.0	1.8
RS	1.0	2.2
XXXX	1.0	6.7

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 19 July

Sample Code	Volume Filtered, l	Chlorophyll a, µg/l
RM	1.0	4.7
RP	1.0	5.4
RS	1.0	3.3

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 6 July 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	1.8
RP	1.0	2.8
RS	1.0	2.5

Client: ASI

Site: Chatfield Reservoir

Collection Date: 23 August 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	5.0
RP	1.0	2.8
RS	1.0	3.0

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 7 September 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	3.3
RP	1.0	3.7
RS	1.0	3.1
XXX	1.0	3.7

University of Colorado Center for Limnology

Client: ASI

Site: Chatfield Reservoir

Collection Date: 27 September 1995

Sample Code	Volume Filtered, l	Chlorophyll a, $\mu\text{g/l}$
RM	1.0	7.8
RP	1.0	4.4
RS	1.0	6.1

APPENDIX B

**WATER-COLUMN INDICATOR-VARIABLE PROFILES
1995 CY MONITORING PROGRAM**

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

March 21, 1995, 0955 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.5	313	16.1	7.4	
2	7.7	314	16.0	7.3	
3	7.7	314	15.9	7.3	
4	7.7	313	16.3	7.3	
5	7.7	315	16.1	7.3	
6	7.8	310	16.2	7.3	
7	7.8	315	16.4	7.2	
8	7.8	315	16.2	7.2	
9	7.8	315	16.2	7.1	
10	7.8	315	16.3	7.1	
11	7.8	315	16.2	7.1	
12	7.8	315	16.1	7.1	
13	7.8	315	16.0	7.1	
14	7.7	315	16.1	7.1	
15	7.7	315	16.7	7.1	
16	7.7	315	16.6	7.1	
17	7.7	315	15.9	7.1	
18	7.7	315	15.9	7.1	
19	7.8	315	16.3	7.1	
20	7.8	315	16.0	7.1	
21	7.8	315	16.3	7.1	
22	7.8	315	16.4	7.1	
23	7.8	315	16.2	7.1	
24	7.8	315	16.2	7.1	
25	7.8	315	16.3	7.1	
26	7.7	315	16.3	7.0	
27	7.7	315	16.2	7.0	
28	7.8	315	16.5	7.0	
29	7.7	320	16.0	7.0	
30	7.8	320	16.2	7.0	
31	7.8	320	15.9	6.9	
32	7.9	320	16.0	6.9	
33	7.9	320	16.1	6.9	
34	7.9	320	16.4	6.9	
35	7.8	320	15.3	6.7	

TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)

April 28, 1995, 1230 hours				
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)
1	8.1	370	11.6	11.7
2	8.1	370	11.6	10.7
3	8.1	370	11.7	10.5
4	8.1	370	11.5	10.4
5	8.1	370	11.6	10.2
6	8.1	370	11.7	10.1
7	8.0	374	11.9	11.5
8	8.0	369	11.3	11.9
9	8.1	373	11.6	11.3
10	8.1	371	11.6	10.5
11	8.1	371	13.2	10.6
12	8.1	369	12.2	10.2
13	8.1	372	13.6	10.2
14	8.1	372	13.6	10.2
15	8.1	373	13.7	9.7
16	8.1	373	13.7	9.7
17	8.2	373	13.4	9.7
18	8.2	378	12.5	10.2
19	8.2	373	12.8	10.2
20	8.1	373	12.8	10.2
21	8.1	373	13.1	10.3
22	8.1	374	13.6	10.5
23	8.1	373	13.1	10.0
24	8.1	372	13.3	9.2
25	8.1	373	13.0	9.2
26	8.1	375	12.9	9.2
27	8.1	375	13.0	9.1
28	8.1	375	12.8	9.1
29	8.1	375	13.0	9.1
30	8.1	375	12.8	9.1
31	8.1	376	13.0	9.0
32	8.1	376	13.2	9.0
33	8.1	384	13.4	9.0
34	8.1	385	13.3	9.0
35	8.0	405	13.5	8.9
36	8.0	405	13.5	8.9
37	8.0	400	13.2	8.9
38	8.0	400	13.0	8.9

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

May 18, 1995, 1030 hours				
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)
1	8.4	360	5.5	12.7
2	8.4	360	5.6	12.6
3	8.4	362	5.7	12.4
4	8.4	360	5.8	12.3
5	8.4	360	5.8	12.3
6	8.4	360	5.9	12.3
7	8.4	360	6.0	12.2
8	8.4	360	6.1	12.2
9	8.4	360	6.1	12.2
10	8.4	360	6.2	12.2
11	8.4	360	6.3	12.1
12	8.4	362	6.3	12.1
13	8.4	360	6.4	12.1
14	8.4	362	6.5	12.1
15	8.5	360	6.5	12.1
16	8.4	362	6.6	12.1
17	8.4	362	6.6	12.1
18	8.4	362	6.7	12.1
19	8.4	360	6.8	12.1
20	8.4	360	6.9	12.0
21	8.4	360	7.0	12.0
22	8.4	360	7.0	12.0
23	8.4	360	7.1	12.0
24	8.4	360	7.2	12.0
25	8.4	360	7.2	12.0
26	8.4	360	7.3	12.0
27	8.4	360	7.4	12.0
28	8.4	360	7.4	12.0
29	8.4	360	7.5	12.0
30	8.4	360	7.6	12.0
31	8.4	360	7.6	11.9
32	8.4	364	7.8	11.7
33	8.3	366	8.0	11.6
34	8.3	366	8.2	11.5

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

June 22, 1995, 1215 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.1	188	6.4	19.1	
2	8.1	186	6.4	18.6	
3	8.1	184	6.3	17.2	
4	8.0	185	6.1	16.6	
5	8.0	183	6.1	16.2	
6	8.0	183	6.0	16.1	
7	8.0	183	6.0	16.1	
8	7.9	183	5.9	16.1	
9	7.9	183	5.8	16.0	
10	7.8	182	5.9	15.9	
11	7.7	179	5.5	15.8	
12	7.7	179	5.7	15.7	
13	7.6	178	5.5	15.6	
14	7.6	178	5.6	15.6	
15	7.5	178	5.6	15.5	
16	7.5	178	5.6	15.5	
17	7.4	177	5.6	15.4	
18	7.4	177	5.7	15.4	
19	7.4	176	5.7	15.3	
20	7.3	176	5.7	15.3	
21	7.3	176	5.3	15.3	
22	7.3	176	5.5	15.3	
23	7.2	176	5.3	15.2	
24	7.2	176	5.5	15.2	
25	7.2	176	5.4	15.2	
26	7.1	176	5.6	15.2	
27	7.1	176	5.7	15.1	
28	7.1	175	5.7	15.1	
29	7.1	175	5.5	15.1	
30	7.1	175	5.5	15.1	
31	7.1	176	5.5	15.1	
32	7.1	174	5.6	14.8	
33	7.1	173	5.5	14.5	
34	7.1	170	5.5	14.4	
*43	6.8	165	5.0	13.8	

* - NO DATA AVAILABLE FROM 35' - 42'.

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

July 6, 1995, 1115 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.5	187	7.8	18.8	
2	7.4	186	7.4	18.7	
3	7.6	187	7.2	18.3	
4	7.4	187	7.2	18.4	
5	7.3	188	6.8	18.1	
6	7.2	188	6.5	18.1	
7	7.2	188	6.5	17.9	
8	7.2	186	6.8	17.5	
9	7.2	186	6.8	17.1	
10	7.1	187	7.1	17.0	
11	7.1	186	6.6	16.9	
12	7.0	186	6.5	16.6	
13	7.0	186	6.5	16.1	
14	7.0	187	6.1	15.9	
15	7.0	188	6.1	15.7	
16	7.0	190	5.9	15.6	
17	7.0	190	6.1	15.2	
18	6.9	190	6.2	14.8	
19	6.9	190	6.0	14.7	
20	6.9	191	6.1	14.6	
21	6.9	193	6.3	14.5	
22	6.9	192	6.0	14.4	
23	6.9	191	6.3	14.3	
24	6.9	191	6.2	14.3	
25	6.9	192	6.1	14.3	
26	7.0	197	6.2	14.2	
27	7.0	200	6.4	14.1	
28	7.0	201	6.5	14.0	
29	7.1	202	6.5	13.9	
30	7.1	202	6.5	13.9	
31	7.1	202	6.4	13.9	
32	7.1	202	6.6	13.9	
33	7.1	201	6.5	13.8	
34	7.1	201	6.5	13.8	
35	7.6	200	10.9	18.6	
36	7.8	199	11.6	17.4	
37	7.7	199	12.0	16.9	
38	7.8	202	12.2	15.9	
39	7.8	201	12.4	15.0	
40	7.7	188	10.6	18.1	
41	7.7	201	12.4	15.0	
42	7.2	202	11.6	14.0	
43	7.8	202	12.5	14.6	
44	7.8	202	12.5	14.6	

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

July 19, 1995, 1120 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.4	208	8.6	20.3	
2	7.7	208	8.6	20.0	
3	7.6	208	8.6	19.9	
4	7.6	208	8.3	19.8	
5	7.6	208	8.5	19.8	
6	7.6	208	8.2	19.6	
7	7.6	208	8.3	19.5	
8	7.5	208	8.2	19.4	
9	7.5	209	8.1	19.3	
10	7.5	209	7.8	19.0	
11	7.4	211	7.7	18.9	
12	7.4	212	7.5	18.8	
13	7.4	213	7.6	18.6	
14	7.4	213	7.2	18.4	
15	7.4	214	6.7	17.6	
16	7.4	216	7.0	17.6	
17	7.4	217	7.2	17.5	
18	7.4	217	7.3	17.5	
19	7.4	217	7.3	17.3	
20	7.4	218	7.3	17.3	
21	7.5	218	7.4	17.3	
22	7.4	217	7.4	17.2	
23	7.4	217	7.0	17.1	
24	7.4	217	7.0	17.1	
25	7.4	217	7.0	17.1	
26	7.4	216	7.0	17.0	
27	7.3	213	6.7	16.9	
28	7.3	211	6.6	16.9	
29	7.3	210	6.5	16.8	
30	7.2	209	6.3	16.7	
31	7.2	211	6.4	16.7	
32	7.2	207	5.9	16.4	
33	7.2	206	5.5	16.1	
34	7.2	205	5.6	16.0	

* Total Depth = 43.0' (no field parameters collected from 35.0' - 43.0' due to bad weather)

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

August 9, 1995, 1125 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.3	281	8.4	20.5	
2	8.3	281	8.5	20.5	
3	8.2	282	8.5	20.4	
4	8.1	282	8.6	20.4	
5	8.1	282	8.6	20.3	
6	8.0	282	8.5	20.3	
7	8.0	282	8.4	20.2	
8	8.0	282	8.5	20.2	
9	7.9	282	8.6	20.1	
10	7.9	282	8.2	20.0	
11	7.8	282	7.9	19.9	
12	7.7	283	7.0	19.6	
13	7.6	285	6.3	19.4	
14	7.4	283	6.4	19.2	
15	7.4	283	5.6	19.0	
16	7.5	282	5.8	18.8	
17	7.5	281	6.0	18.5	
18	7.6	283	7.0	18.4	
19	7.6	283	7.0	18.4	
20	7.7	283	6.5	18.3	
21	7.6	283	6.5	18.3	
22	7.6	283	6.5	18.2	
23	7.6	283	6.7	18.1	
24	7.7	284	6.7	18.0	
25	7.7	284	6.7	18.0	
26	7.7	284	6.6	18.0	
27	7.7	283	6.5	17.9	
28	7.7	283	6.3	17.8	
29	7.7	283	6.1	17.8	
30	7.7	281	5.9	17.6	
31	7.6	278	4.7	17.3	
32	7.6	278	4.2	17.2	
33	7.6	278	3.9	17.1	
34	7.5	278	4.0	17.1	

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

August 23, 1995, 1200 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.0	298	7.9	23.4	
2	8.0	297	8.2	22.8	
3	7.8	297	8.1	22.6	
4	7.7	296	8.2	22.4	
5	7.6	297	8.3	22.3	
6	7.6	297	8.5	22.3	
7	7.6	297	8.3	22.2	
8	7.6	297	8.2	22.1	
9	7.6	297	8.3	22.1	
10	7.6	297	8.3	22.1	
11	7.6	297	8.0	22.0	
12	7.7	298	7.9	22.0	
13	7.7	299	8.2	22.0	
14	7.7	300	7.5	21.8	
15	7.7	300	7.7	21.8	
16	7.7	298	7.3	21.7	
17	7.5	297	5.5	21.0	
18	7.5	297	5.4	20.6	
19	7.4	297	5.0	20.2	
20	7.4	297	4.4	19.8	
21	7.4	297	4.0	19.6	
22	7.4	297	4.0	19.6	
23	7.4	296	3.5	19.5	
24	7.4	297	3.2	19.3	
25	7.4	297	3.2	19.3	
26	7.4	297	3.2	19.2	
27	7.3	296	2.8	19.1	
28	7.3	295	2.5	19.1	
29	7.3	295	2.0	18.9	
30	7.2	294	2.2	18.7	
31	7.2	293	1.8	18.5	
32	7.2	291	1.5	18.3	
33	7.2	288	0.9	17.9	
34	7.1	287	0.4	17.6	

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

September 7, 1995, 1130 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.3	337	7.8	19.6	
2	7.4	323	7.9	19.6	
3	7.5	322	7.9	19.6	
4	7.6	322	7.5	19.6	
5	7.6	321	7.6	19.6	
6	7.7	321	7.9	19.6	
7	7.7	320	7.3	19.6	
8	7.7	320	8.0	19.6	
9	7.7	320	7.9	19.6	
10	7.7	320	7.9	19.6	
11	7.7	320	7.9	19.6	
12	7.7	320	7.8	19.6	
13	7.7	319	7.8	19.6	
14	7.7	320	7.9	19.6	
15	7.7	320	7.9	19.6	
16	7.7	321	7.8	19.5	
17	7.6	311	6.8	18.7	
18	7.5	310	6.8	18.5	
19	7.5	310	6.5	18.3	
20	7.4	310	6.4	18.2	
21	7.4	310	6.1	18.2	
22	7.4	310	6.0	18.1	
23	7.4	310	6.1	18.1	
24	7.3	310	5.9	18.1	
25	7.3	310	6.1	18.1	
26	7.3	309	5.9	18.0	
27	7.2	309	5.6	17.9	
28	7.2	308	5.7	17.8	
29	7.2	309	5.6	17.7	
30	7.3	308	5.4	17.7	
31	7.2	308	5.2	17.6	
32	7.3	308	5.0	17.6	
33	7.3	307	5.0	17.5	
34	7.2	308	4.7	17.4	

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

September 27, 1995, 1110 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	260	8.7	14.5	
2	8.4	260	8.9	14.4	
3	8.4	260	9.2	14.4	
4	8.4	260	8.9	14.4	
5	8.4	260	8.8	14.4	
6	8.4	260	8.8	14.4	
7	8.4	260	8.9	14.4	
8	8.4	261	8.9	14.4	
9	8.4	261	9.0	14.4	
10	8.4	260	8.7	14.3	
11	8.4	261	8.8	14.3	
12	8.4	261	8.9	14.3	
13	8.4	261	8.8	14.3	
14	8.4	261	8.9	14.3	
15	8.4	261	8.8	14.3	
16	8.4	261	8.9	14.3	
17	8.4	261	8.9	14.3	
18	8.4	261	8.9	14.2	
19	8.4	261	8.7	14.2	
20	8.4	261	8.5	14.1	
21	8.3	261	8.5	14.1	
22	8.3	261	8.3	14.0	
23	8.5	261	8.3	14.0	
24	8.4	262	7.0	14.0	
25	8.4	262	7.4	14.0	
26	8.4	262	7.7	13.9	
27	8.4	262	7.7	13.9	
28	8.4	262	7.6	13.9	

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

November 1, 1995, 1035 hours				
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)
1	8.3	280	9.0	8.8
2				
3	8.3	280	8.9	8.8
4				
5	8.3	280	8.9	8.8
6				
7	8.3	280	8.4	8.8
8				
9	8.2	280	8.4	8.8
10				
11	8.2	280	8.7	8.8
12				
13	8.2	281	8.2	8.8
14				
15	8.2	281	8.7	8.8
16				
17	8.2	281	7.9	8.8
18				
19	8.2	281	8.1	8.8
20				
21	8.2	281	8.5	8.7
22				
23	8.2	281	8.6	8.7
24				
25	8.2	281	8.4	8.8
26				
27	8.2	281	8.7	8.8
28				
29	8.2	281	8.9	8.6
30				
31	8.2	281	8.9	8.6
32				
33	8.2	281	8.8	8.2
34	8.2	281	8.9	8.1

**TABLE B-1
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 7 (RM)**

November 20, 1995, 1050 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.1	325	10.0	7.2	
2	8.3	326	9.5	6.8	
3	8.3	327	9.3	6.7	
4	8.3	328	9.0	6.5	
5	8.3	329	8.7	6.5	
6	8.3	330	9.1	6.4	
7	8.2	330	9.1	6.3	
8	8.2	330	8.5	6.3	
9	8.2	330	8.5	6.2	
10	8.1	330	9.0	6.2	
11	8.1	331	9.0	6.2	
12	8.1	331	8.9	6.2	
13	8.1	331	8.9	6.2	
14	8.1	331	8.7	6.2	
15	8.1	331	8.9	6.2	
16	8.1	331	8.8	6.1	
17	8.1	331	8.6	6.1	
18	8.1	331	8.7	6.1	
19	8.2	331	8.9	6.1	
20	8.3	332	9.0	6.1	
21	8.3	332	9.2	6.1	
22	8.3	332	8.4	6.1	
23	8.3	331	8.5	6.1	
24	8.3	332	5.9	6.1	
25	8.2	331	2.7	6.2	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

March 21, 1995, 1035 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.8	310	15.5	7.5	
2	7.8	315	16.3	7.5	
3	7.9	315	16.1	7.4	
4	7.9	315	16.0	7.4	
5	7.9	315	16.0	7.4	
6	7.9	315	16.1	7.4	
7	7.9	315	15.7	7.4	
8	7.8	315	16.1	7.4	
9	7.8	315	15.8	7.3	
10	7.8	315	16.1	7.3	
11	7.8	315	15.7	7.3	
12	7.8	315	16.1	7.3	
13	7.8	315	16.0	7.3	
14	7.8	315	16.0	7.3	
15	7.8	325	15.4	7.3	
16	7.8	315	15.9	7.3	

April 28, 1995, 1335 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.0	372	11.7	10.6	
2	8.0	372	11.8	10.6	
3	8.0	379	11.8	10.6	
4	8.0	379	11.9	10.4	
5	8.1	379	11.9	10.4	
6	8.1	380	11.8	10.5	
7	8.0	378	11.9	10.2	
8	8.0	380	12.1	9.7	
9	8.1	382	12.6	9.2	
10	8.1	380	12.7	9.2	
11	8.1	378	12.6	9.2	
12	8.1	380	12.6	9.2	
13	8.0	381	12.7	9.1	
14	8.1	380	12.7	9.3	
15	8.1	379	12.6	9.2	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

May 18, 1995, 1120 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.3	348	3.9	13.1	
2	8.3	350	4.0	12.6	
3	8.3	350	4.0	12.3	
4	8.3	348	4.1	12.2	
5	8.3	350	4.1	12.1	
6	8.3	352	4.2	12.1	
7	8.3	350	4.4	12.0	
8	8.3	350	4.4	11.8	
9	8.2	350	4.6	11.8	
10	8.2	340	4.8	11.2	
11	8.1	334	5.0	11.0	
12	8.1	332	5.2	10.6	
13	8.0	324	5.4	10.4	
14	7.8	308	6.0	9.0	
15	7.8	280	6.6	8.3	
16	7.8	278	7.0	8.4	
17	7.9	280	7.7	8.4	

June 22, 1995, 1140 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	190	6.7	18.4	
2	8.2	183	6.6	18.5	
3	8.2	183	6.4	18.3	
4	8.2	181	6.2	17.8	
5	8.2	180	6.0	17.0	
6	8.2	181	6.2	16.9	
7	8.2	181	5.9	16.7	
8	8.2	182	5.9	16.6	
9	8.1	183	6.1	16.5	
10	8.1	183	6.0	16.5	
11	8.1	183	6.0	16.4	
12	8.0	183	5.9	16.3	
13	8.0	182	5.8	16.2	
14	8.0	182	5.9	16.2	
15	8.0	182	5.7	16.2	
16	8.0	182	5.5	16.1	
17	8.0	183	5.1	16.1	
18	7.9	183	5.2	16.0	
19	7.9	182	5.2	15.8	
20	8.0	181	5.1	15.6	
21	8.0	181	5.1	15.6	
22	8.0	177	5.1	15.4	
23	8.0	174	5.5	15.2	
24	7.9	172	5.4	15.0	
24.5	7.5	299	4.9	14.8	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

July 6, 1995, 1220 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.2	187	8.8	18.4	
2	7.2	185	8.3	18.3	
3	7.3	184	8.4	18.1	
4	7.3	184	8.7	17.8	
5	7.2	183	8.8	17.4	
6	7.2	183	8.8	17.2	
7	7.2	183	8.4	17.1	
8	7.2	184	8.1	16.9	
9	7.1	184	7.7	16.5	
10	7.1	184	7.6	16.4	
11	7.1	184	7.5	16.2	
12	7.0	187	6.8	16.0	
13	7.0	188	6.3	15.9	
14	6.9	187	6.5	15.8	
15	6.9	188	6.6	15.7	
16	6.9	190	6.5	15.6	
17	6.9	191	6.8	15.2	
18	6.9	191	7.1	14.7	
19	6.9	191	7.0	14.6	
20	6.9	195	7.4	14.4	
21	6.9	198	7.4	14.4	
22	7.0	199	7.6	14.3	
23	7.0	198	7.3	14.3	
24	6.9	198	7.4	14.3	
25	6.9	198	7.7	14.2	
26	6.9	199	7.5	14.2	
27	6.9	197	7.8	14.1	
28	6.9	198	7.8	14.1	
29	7.0	202	7.7	14.0	
30	7.0	202	7.3	14.0	
31	7.0	202	7.3	14.0	

July 19, 1995, 1200 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.0	216	8.4	20.3	
2	8.0	214	8.2	19.9	
3	7.9	213	8.2	19.8	
4	7.9	212	8.2	19.6	
5	8.0	211	8.3	19.3	
6	7.9	211	8.2	19.3	
7	7.8	210	8.0	19.2	
8	7.7	210	8.0	19.2	
9	7.7	210	7.7	19.2	
10	7.7	210	7.8	19.1	
11	7.6	211	7.5	18.8	
12	7.5	212	7.2	18.5	
13	7.5	214	6.9	18.3	
14	7.5	214	6.4	17.9	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

August 9, 1995, 1210 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	282	8.6	20.7	
2	8.4	282	8.2	20.7	
3	8.4	282	8.5	20.6	
4	8.4	282	8.3	20.4	
5	8.4	281	8.8	20.2	
6	8.3	281	8.6	20.2	
7	8.2	281	8.4	20.2	
8	8.2	281	8.4	20.1	
9	8.2	281	8.7	20.1	
10	8.1	281	8.3	20.1	
11	8.1	281	7.9	20.0	
12	8.1	281	7.1	19.7	
13	7.9	283	6.4	19.4	
14	7.8	285	5.7	19.2	
15	7.7	285	5.1	18.8	
16	7.8	380	4.9	18.8	
17	7.4	380	3.4	18.8	

August 23, 1995, 1100 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.8	295	7.8	23.1	
2	7.7	294	7.9	22.7	
3	7.7	295	8.0	22.6	
4	7.6	295	8.0	22.5	
5	7.6	295	8.0	22.4	
6	7.6	295	8.0	22.3	
7	7.6	295	8.2	22.2	
8	7.6	295	7.9	22.1	
9	7.5	296	7.8	22.1	
10	7.3	298	6.9	21.9	
11	7.2	307	6.4	21.6	
12	7.2	326	6.1	21.1	
12.5	6.9	348	5.8	21.0	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

September 7, 1995, 1310 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.9	318	7.3	19.3	
2	7.9	318	7.1	19.3	
3	7.9	318	7.6	19.3	
4	7.9	318	7.3	19.3	
5	7.9	318	7.4	19.3	
6	7.9	318	7.3	19.3	
7	7.8	317	7.4	19.3	
8	7.8	318	7.1	19.3	
9	7.8	317	7.3	19.3	
10	7.8	321	7.0	19.1	
11	7.7	323	6.5	19.1	
12	7.4	325	5.7	19.0	

September 27, 1995, 1035 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.3	260	8.7	14.4	
2	8.3	261	8.7	14.3	
3	8.3	261	8.6	14.3	
4	8.3	261	8.7	14.2	
5	8.3	261	8.7	14.1	
6	8.3	261	8.7	14.1	
7	8.3	261	8.5	14.0	
8	8.2	261	8.8	14.0	
9	8.2	261	8.5	14.0	
10	8.2	261	8.5	13.9	
11	8.2	261	8.4	13.9	
12	8.2	261	8.3	13.9	
13	8.2	261	8.6	13.8	
14	8.2	261	8.2	13.8	

November 1, 1995, 1015 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.0	287	8.7	8.1	
2					
3	8.1	287	8.9	8.0	
4					
5	8.2	288	9.0	8.0	
6					
7	8.1	287	8.7	8.0	
8					
9	8.1	287	8.4	8.0	

**TABLE B-2
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 8 (RP)**

November 20, 1995, 1135 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	333	8.6	6.3	
2	8.5	333	9.0	6.0	
3	8.5	334	8.7	5.9	
4	8.5	334	7.9	5.9	
5	8.5	334	9.1	5.8	
6	8.5	335	8.9	5.8	
7	8.5	335	8.7	5.8	
8	8.5	335	9.2	5.7	
9	8.5	336	8.5	5.6	

**TABLE B-3
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 9 (RS)**

March 21, 1995, 0913 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.1	310	15.7	8.0	
2	7.1	310	15.9	7.8	
3	7.1	310	16.3	7.8	
4	7.1	315	16.1	7.8	
5	7.2	310	15.7	7.8	
6	7.2	310	16.1	7.7	
7	7.2	315	15.8	7.7	
8	7.2	315	15.8	7.6	
9	7.2	310	16.0	7.6	
10	7.3	315	16.2	7.6	
11	7.3	310	16.2	7.5	
12	7.3	315	15.8	7.5	
13	7.3	315	16.0	7.4	
14	7.3	315	15.9	7.3	
15	7.3	315	16.0	7.3	
16	7.3	315	16.1	7.2	

April 28, 1995, 1315 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.2	370	11.9	11.4	
2	8.2	370	11.8	11.3	
3	8.2	370	11.8	11.1	
4	8.2	370	11.8	11.0	
5	8.2	368	11.8	10.8	
6	8.2	367	11.9	9.9	
7	8.2	371	12.0	9.5	
8	8.2	370	12.4	9.8	
9	8.2	370	12.6	9.5	
10	8.2	370	12.8	9.4	
11	8.2	370	12.8	9.4	
12	8.3	370	12.9	9.3	
13	8.3	370	12.9	9.3	
14	8.2	368	12.8	9.3	

**TABLE B-3
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 9 (RS)**

May 18, 1995, 1220 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	342	3.9	12.9	
2	8.4	340	4.0	12.8	
3	8.4	342	4.1	12.6	
4	8.4	342	4.2	12.6	
5	8.4	344	4.2	12.6	
6	8.4	350	4.3	12.6	
7	8.4	358	4.4	12.5	
8	8.4	354	4.5	12.5	
9	8.3	352	4.6	12.3	
10	8.3	346	4.7	12.2	
11	8.3	344	4.9	12.1	
12	8.2	334	5.0	11.9	
13	8.1	326	5.2	11.4	
14	8.1	310	5.6	11.1	
15	8.1	308	6.3	11.0	

June 22, 1995, 1300 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.1	195	6.6	19.7	
2	8.1	193	6.7	19.2	
3	8.2	193	6.6	18.8	
4	8.1	191	6.6	18.1	
5	8.1	189	6.3	17.5	
6	8.0	188	6.3	17.2	
7	8.0	187	6.4	16.9	
8	7.9	182	6.3	16.5	
9	7.8	180	6.4	16.3	
10	7.8	176	6.4	15.8	
11	7.7	172	6.2	15.5	
12	7.6	170	6.0	15.4	
13	7.5	169	6.0	15.2	
14	7.5	167	5.7	15.1	
15	7.5	167	5.8	14.9	
16	7.4	168	5.8	14.9	
17	7.4	168	5.9	14.8	
18	7.4	168	5.6	14.8	
19	7.4	168	5.9	14.8	
20	7.3	168	5.8	14.6	
21	7.3	168	5.9	14.6	
22	7.3	168	5.9	14.6	
23	7.3	168	5.6	14.5	
24	7.3	168	5.3	14.5	

**TABLE B-3
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 9 (RS)**

July 6, 1995, 1300 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.6	191	8.1	19.4	
2	7.5	186	7.8	19.3	
3	7.5	185	7.7	19.2	
4	7.4	183	8.0	18.2	
5	7.3	183	8.1	17.6	
6	7.2	183	8.3	17.0	
7	7.2	186	8.4	16.6	
8	7.2	187	8.3	16.3	
9	7.3	191	8.3	16.1	
10	7.2	194	8.2	15.9	
11	7.2	195	8.2	15.8	
12	7.2	198	7.9	15.5	
13	7.2	201	8.0	15.5	
14	7.2	204	8.0	15.4	
15	7.2	206	8.2	15.4	
16	7.2	207	8.3	15.3	
17	7.2	208	8.3	15.1	
18	7.2	208	8.6	14.8	
19	7.2	209	8.6	14.5	
20	7.2	210	8.8	14.2	
21	7.3	211	8.8	14.1	
22	7.3	211	8.8	13.8	
23	7.3	212	9.0	13.7	
24	7.3	212	8.8	13.6	
25	7.4	212	8.7	13.6	
26	7.4	212	8.5	13.5	
27	7.4	212	8.0	13.5	
28	7.4	212	8.4	13.5	

July 19, 1995, 1250 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.1	228	8.0	21.1	
2	8.1	211	7.9	20.7	
3	8.0	211	7.9	20.1	
4	8.0	211	8.0	20.0	
5	7.9	212	8.0	19.6	
6	7.9	213	8.2	19.5	
7	7.9	216	8.1	19.1	
8	7.9	217	8.2	18.7	
9	7.9	220	8.1	18.5	
10	7.9	222	8.1	18.2	
11	7.9	225	8.1	17.9	
12	7.9	226	8.2	17.6	
13	7.8	227	7.9	17.5	
14	7.8	227	7.8	17.4	
15	7.8	228	7.7	17.4	
16	7.7	228	7.7	17.4	

**TABLE B-3
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 9 (RS)**

August 9, 1995, 1100 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.9	281	8.2	21.2	
2	7.9	280	8.2	21.1	
3	8.0	281	8.3	20.9	
4	8.1	281	8.5	20.8	
5	8.1	281	8.4	20.7	
6	8.1	281	8.3	20.7	
7	8.1	281	8.4	20.6	
8	8.1	281	8.2	20.6	
9	8.1	281	8.2	20.5	
10	8.0	281	8.5	20.5	
11	8.0	282	8.6	20.3	
12	8.0	284	8.0	19.8	
13	7.9	285	7.9	19.5	

August 23, 1995, 1130 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.0	303	8.1	22.2	
2	7.8	303	8.3	22.1	
3	7.7	302	8.2	21.9	
4	7.7	302	8.0	21.9	
5	7.7	302	8.2	21.8	
6	7.7	302	8.1	21.3	
7	7.8	303	8.2	19.6	
8	7.9	302	8.9	18.5	
8.5	7.9	302	9.0	18.4	

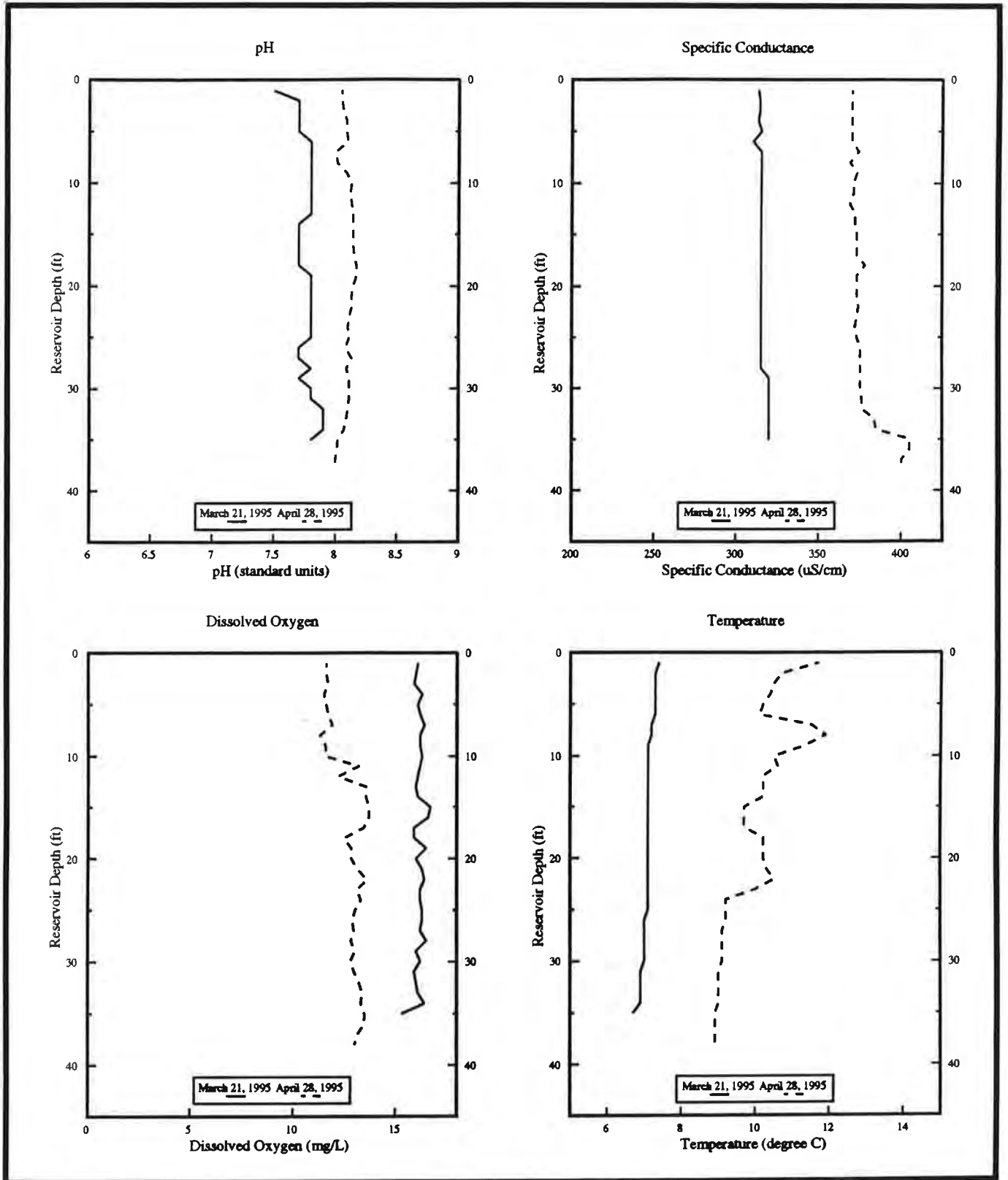
September 7, 1995, 1215 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	7.8	318	7.6	19.6	
2	7.8	317	7.8	19.6	
3	7.8	316	7.8	19.6	
4	7.8	316	7.7	19.6	
5	7.8	316	7.5	19.6	
6	7.8	315	7.8	19.5	
7	7.8	314	8.0	19.3	
8	7.9	314	8.0	19.3	

**TABLE B-3
CHATFIELD IN-RESERVOIR DEPTH-PROFILE DATA
SITE 9 (RS)**

September 27, 1995, 1215 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.7	261	8.8	15.6	
2	8.9	261	8.7	15.4	
3	8.8	260	8.4	15.2	
4	8.9	260	8.7	15.0	
5	8.8	260	8.7	14.9	
6	8.7	260	8.6	14.7	
7	8.7	260	8.0	14.2	
8	8.6	260	8.0	14.1	

November 1, 1995, 1105 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.4	287	8.9	8.3	
2					
3	8.4	287	8.2	8.3	
4					
5	8.4	287	9.0	8.3	
6					
7	8.4	287	8.9	8.4	
8					
9	8.4	287	8.8	8.4	
10					
11	8.4	287	8.7	8.4	

November 20, 1995, 1120 hours					
DEPTH (ft)	pH (s.u.)	SC (uS/cm)	DO (mg/L)	TEMP. (deg C)	
1	8.3	335	8.7	6.6	
2	8.4	335	9.0	6.5	
3	8.4	335	8.9	6.3	
4	8.5	335	8.9	6.3	
5	8.5	335	9.3	6.3	
6	8.5	335	9.1	6.2	
7	8.5	335	8.8	6.2	
8	8.5	332	8.9	6.2	
9	8.5	335	7.7	6.2	
10	8.5	335	8.1	6.1	
11	8.5	335	6.5	6.2	
12	8.5	335	5.8	6.2	



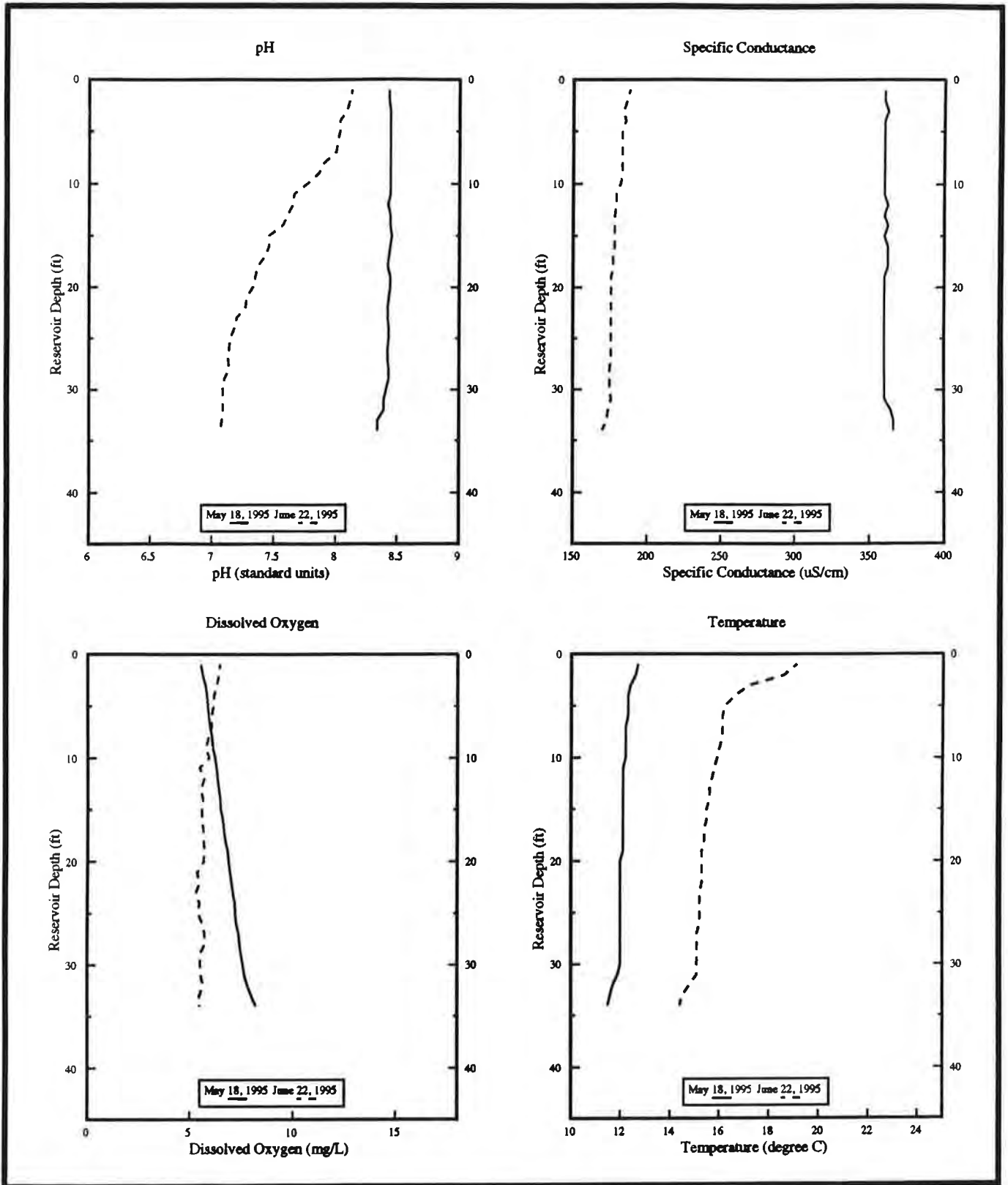
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 7 (RM)
CHATFIELD RESERVOIR 1995**



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Figure B-1A



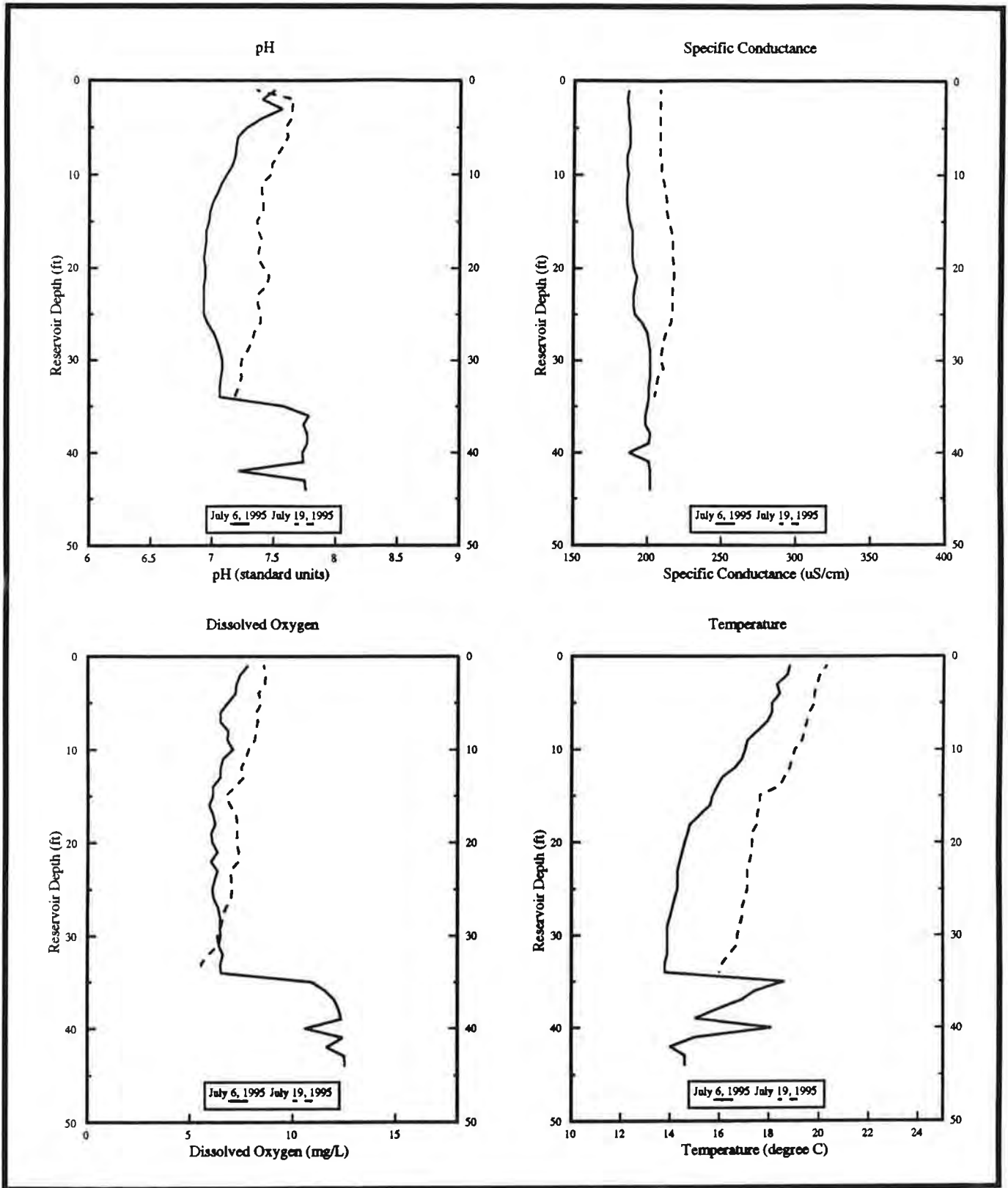
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CHATFIELD RESERVOIR 1995**



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Project No. 8047.50

Figure B-1B



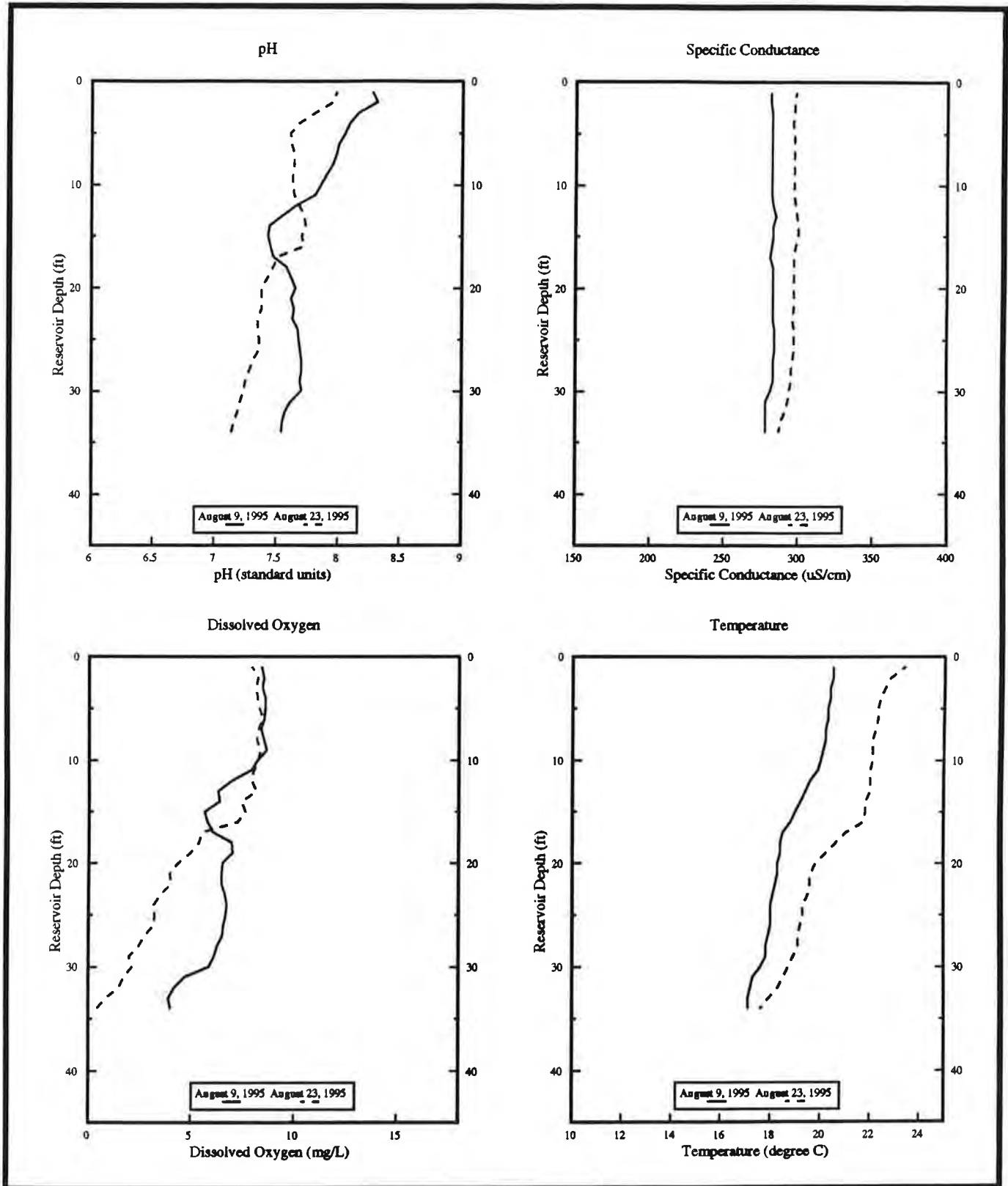
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CHATFIELD RESERVOIR 1995**



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Figure B-1C



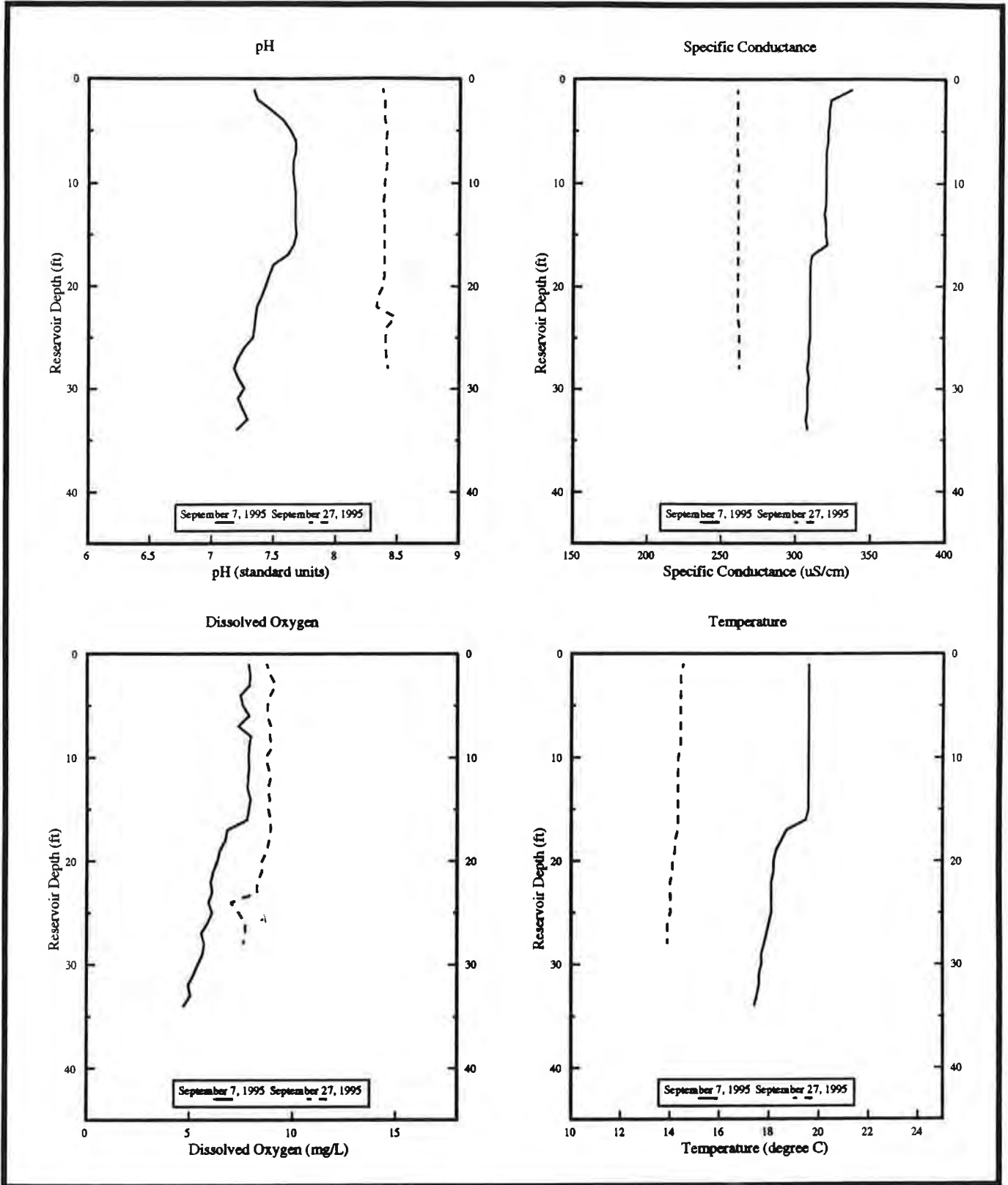
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 7 (RM)
CHATFIELD RESERVOIR 1995**



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Figure B-1D



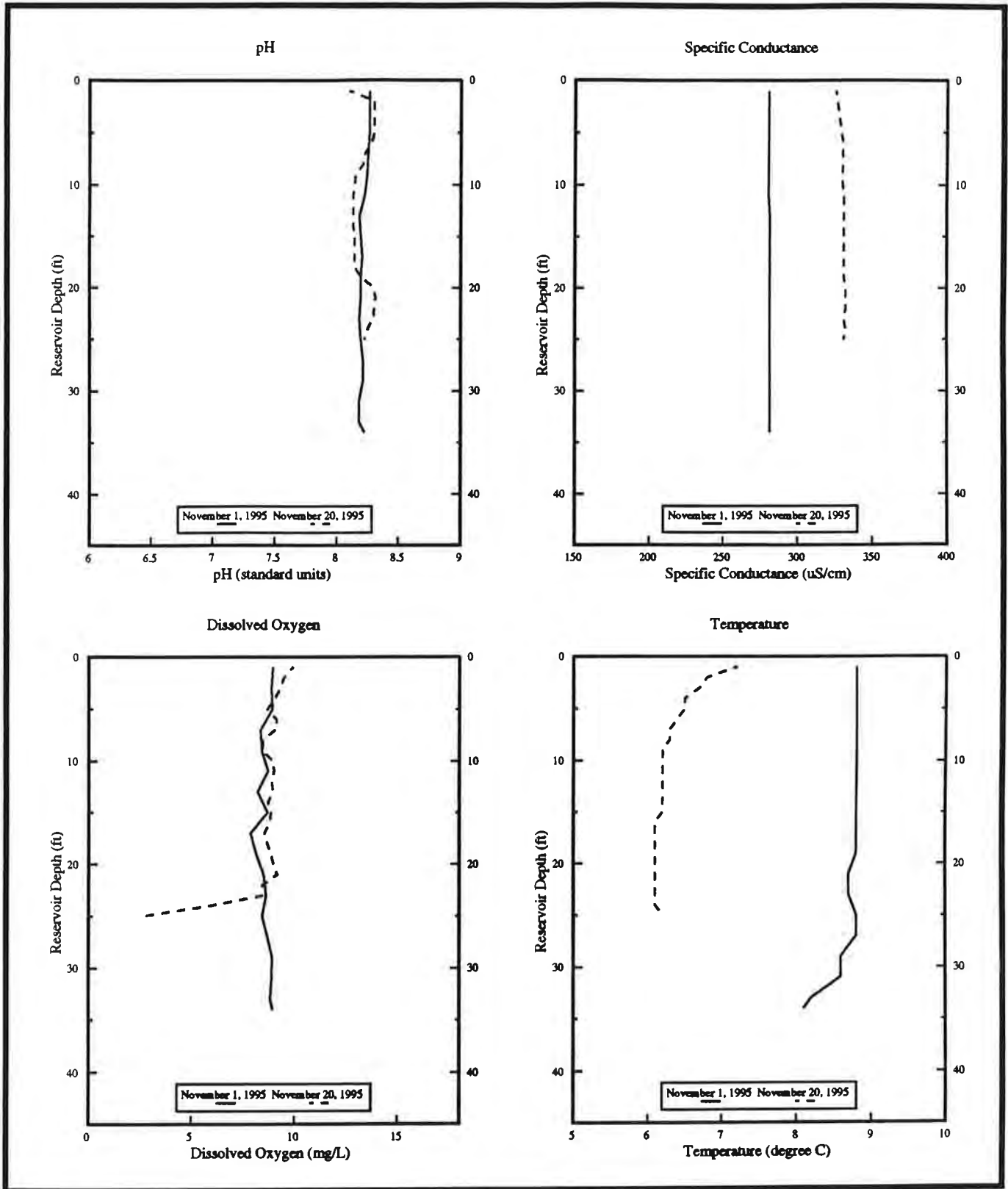
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 7 (RM)
CHATFIELD RESERVOIR 1995**



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Figure B-1E



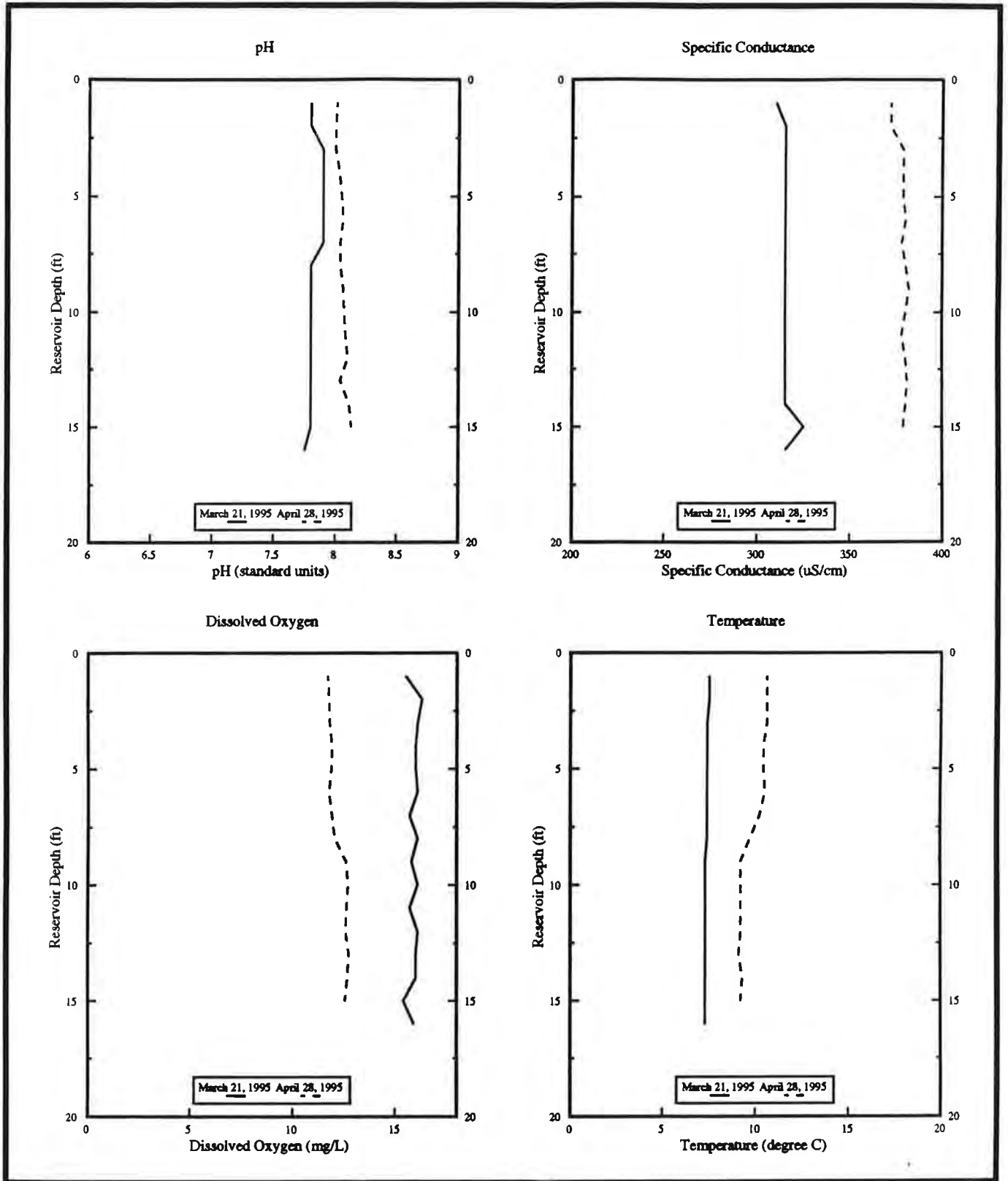
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 7 (RM)
CHATFIELD RESERVOIR 1995**



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Figure B-1F



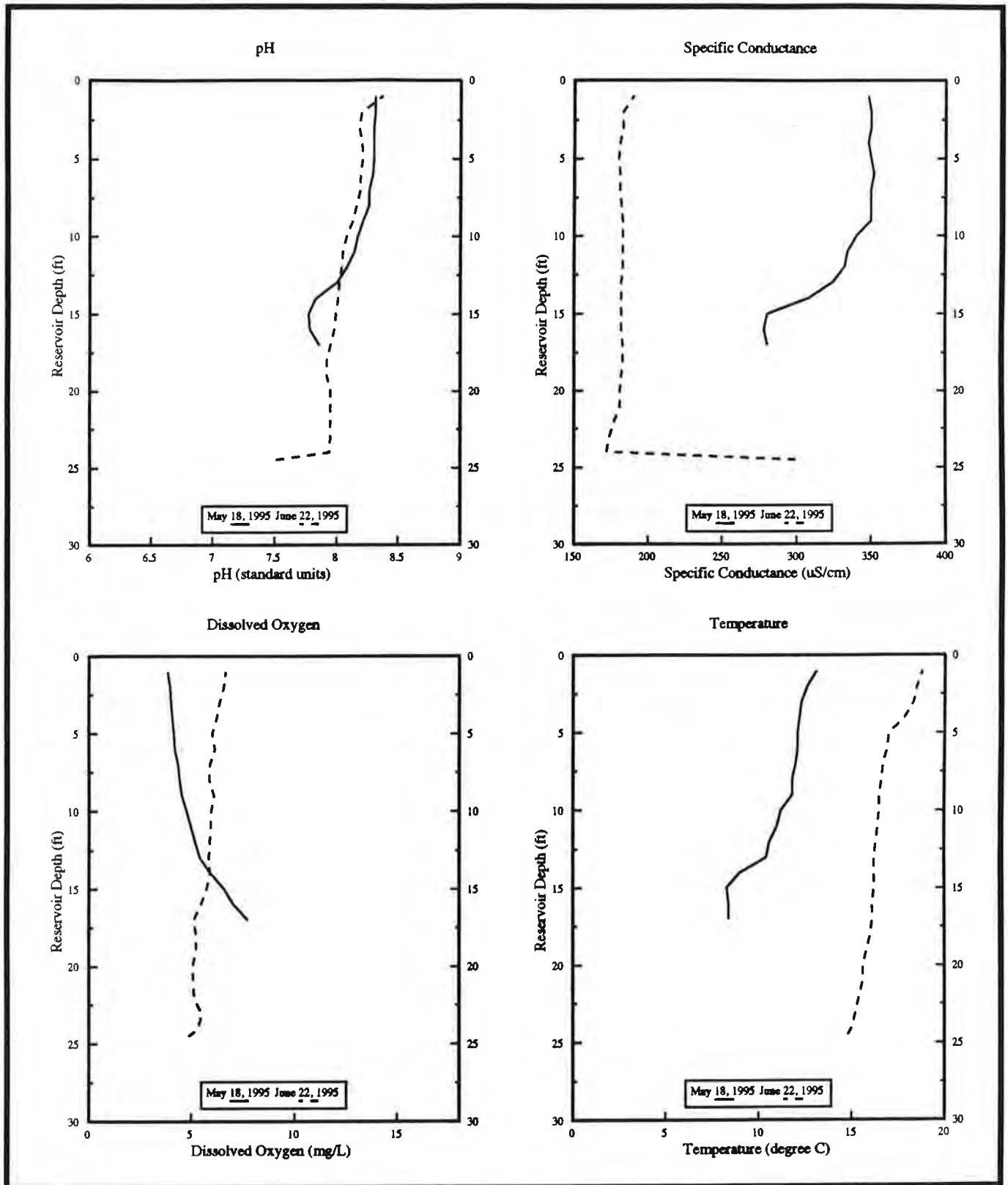
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CHATFIELD RESERVOIR 1995**



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Figure B-2A



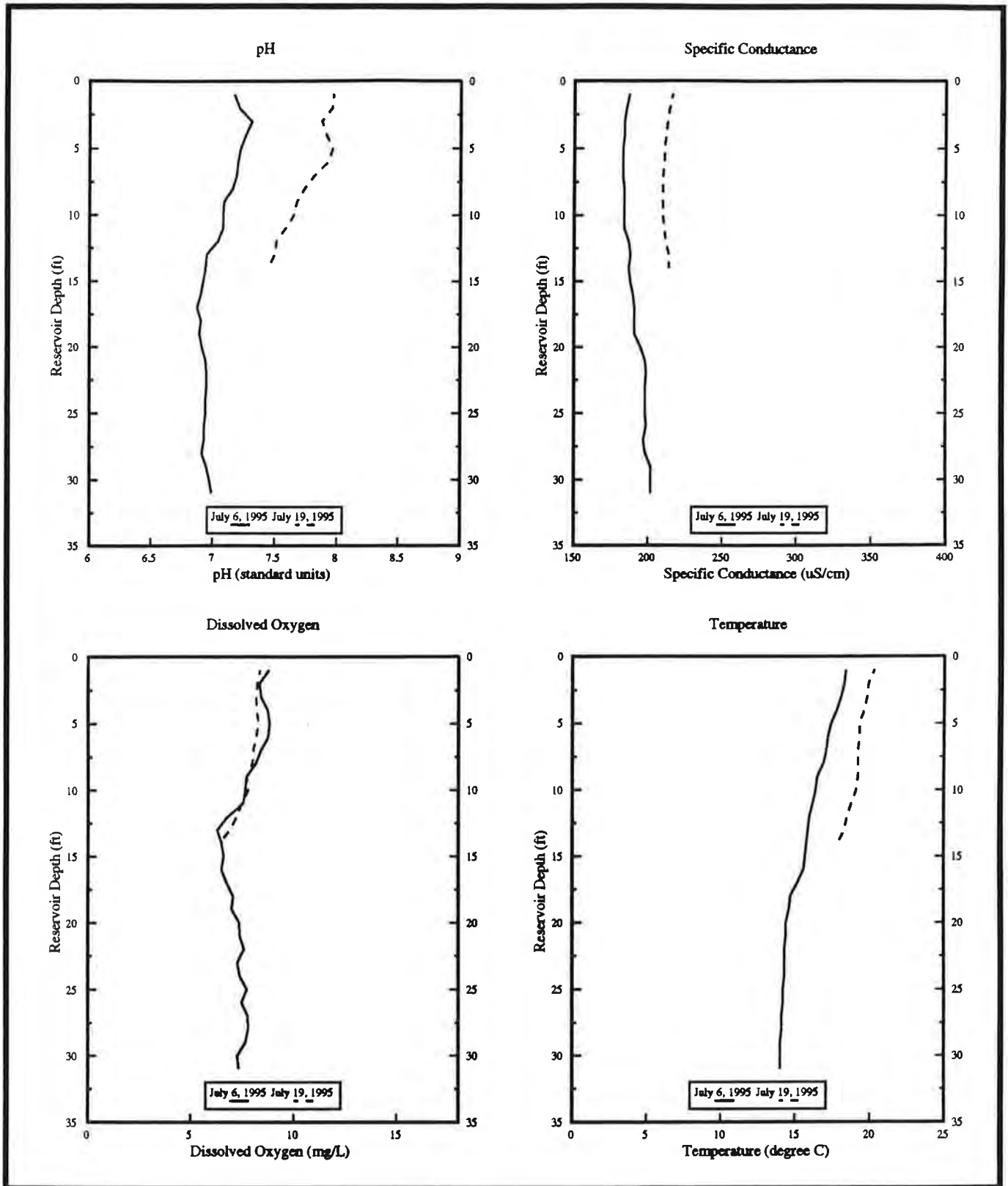
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CHATFIELD RESERVOIR 1995**



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Figure B-2B



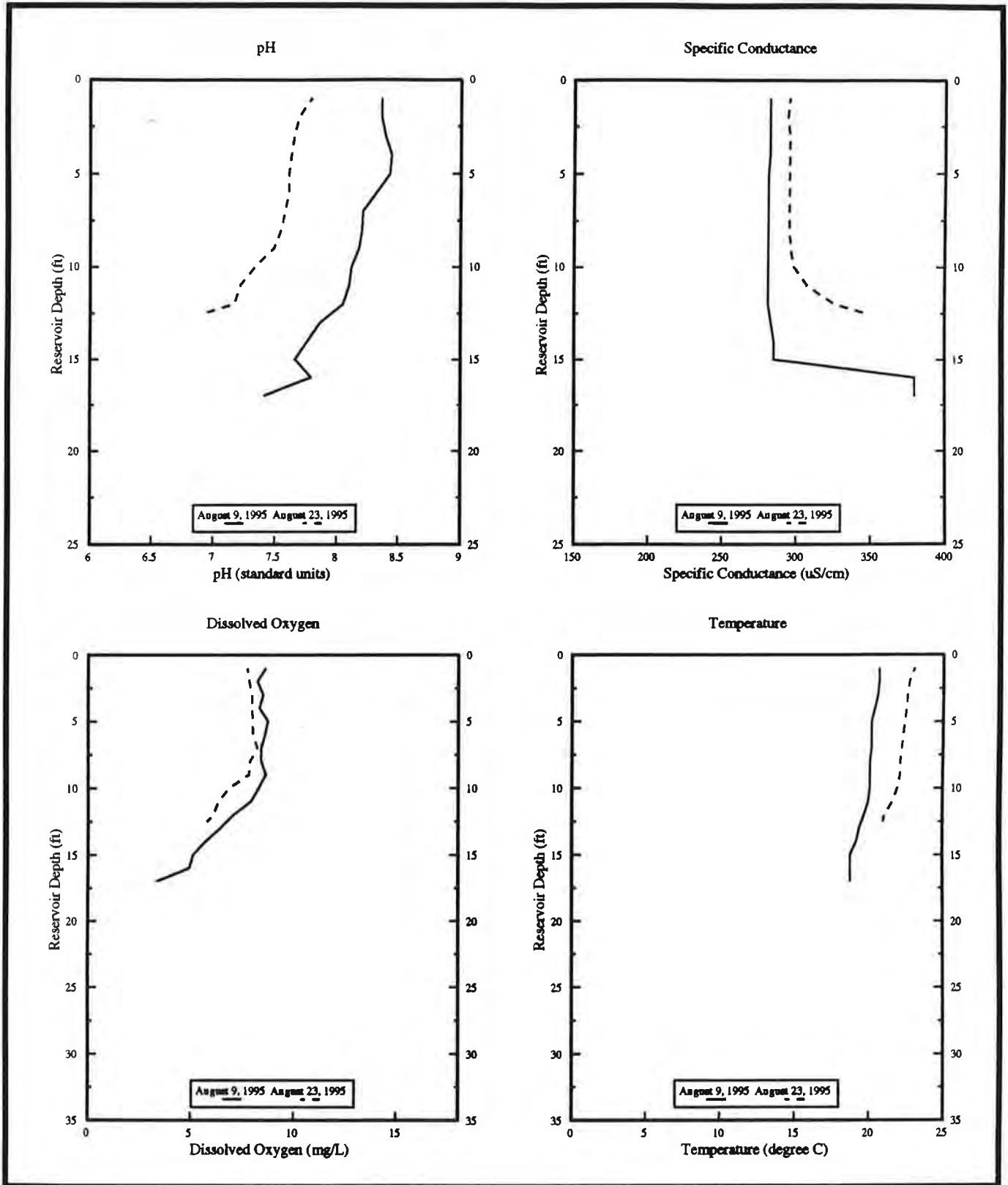
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CHATFIELD RESERVOIR 1995**



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Figure B-2C



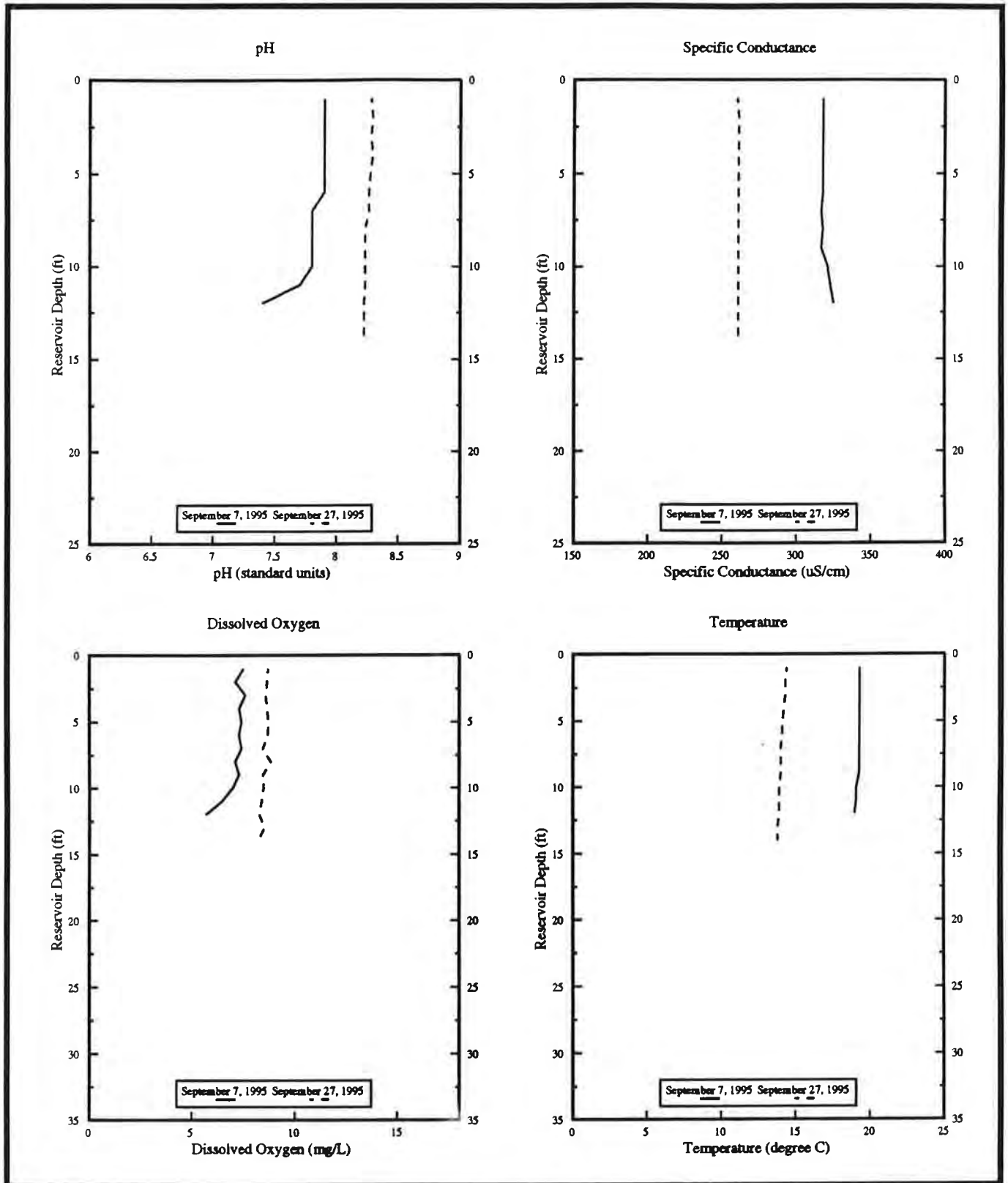
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 8 (RP)
CHATFIELD RESERVOIR 1995**



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Figure B-2D



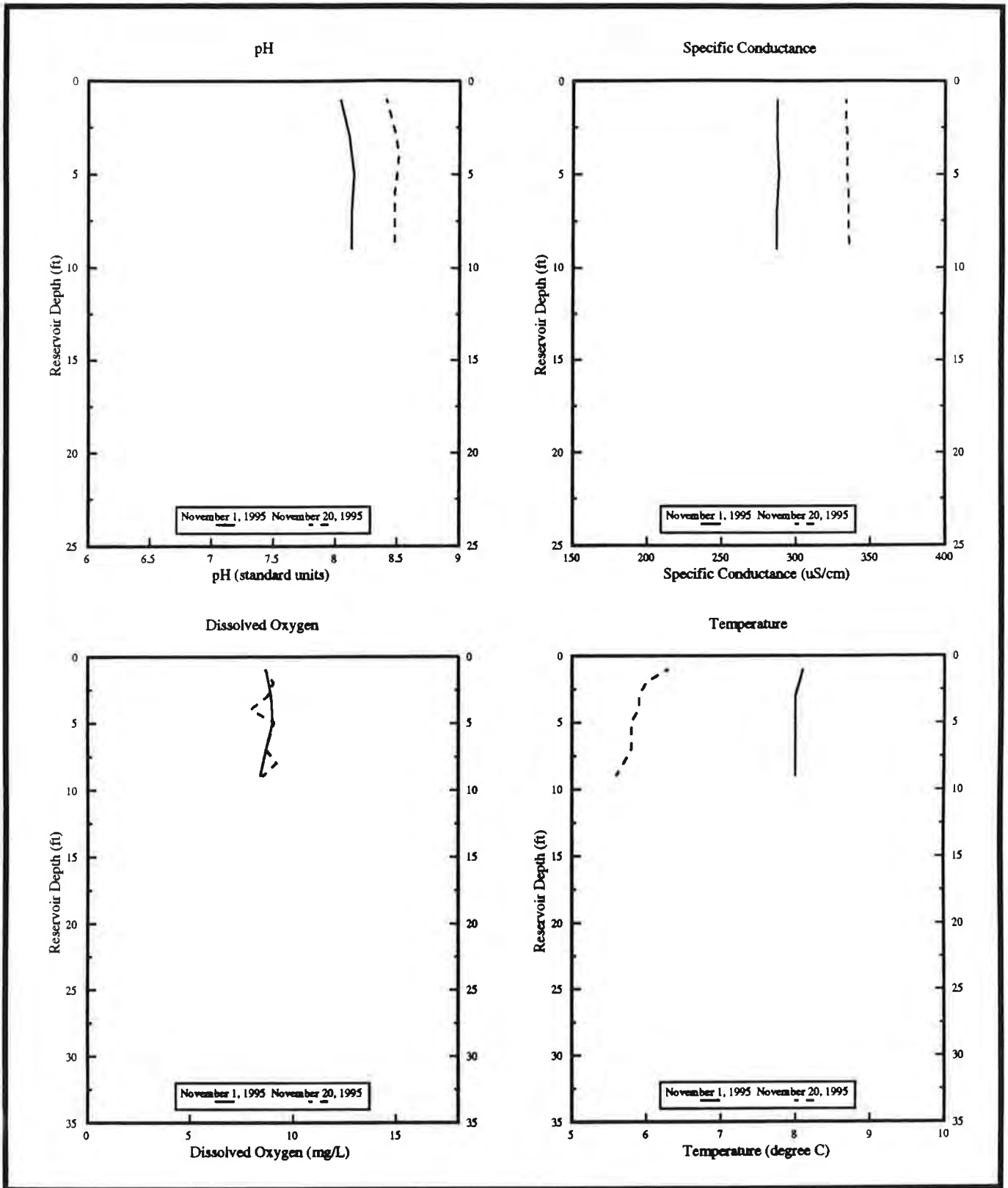
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 8 (RP)
CHATFIELD RESERVOIR 1995**



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Figure B-2E



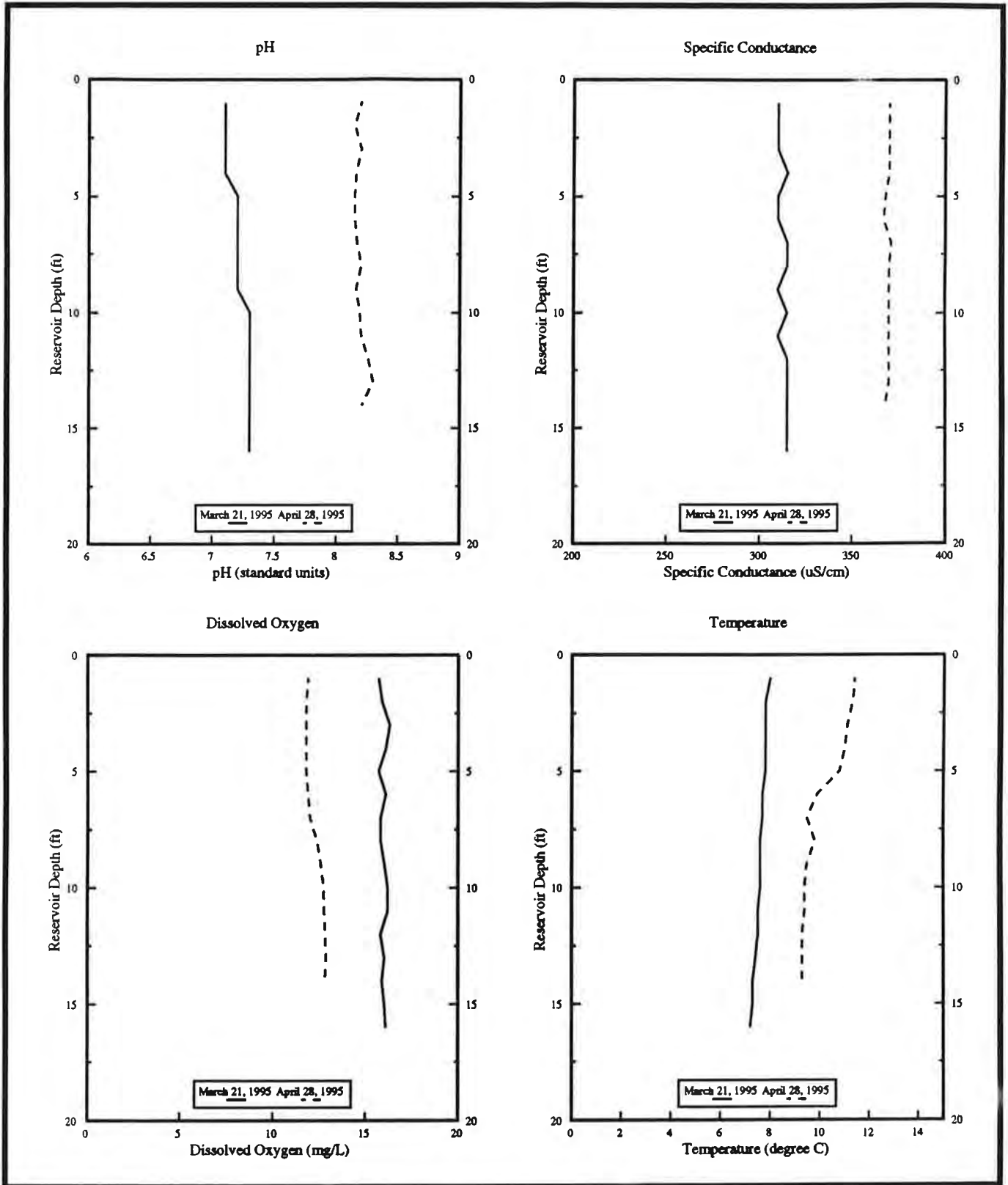
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 8 (RP)
CHATFIELD RESERVOIR 1995**



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Figure B-2F



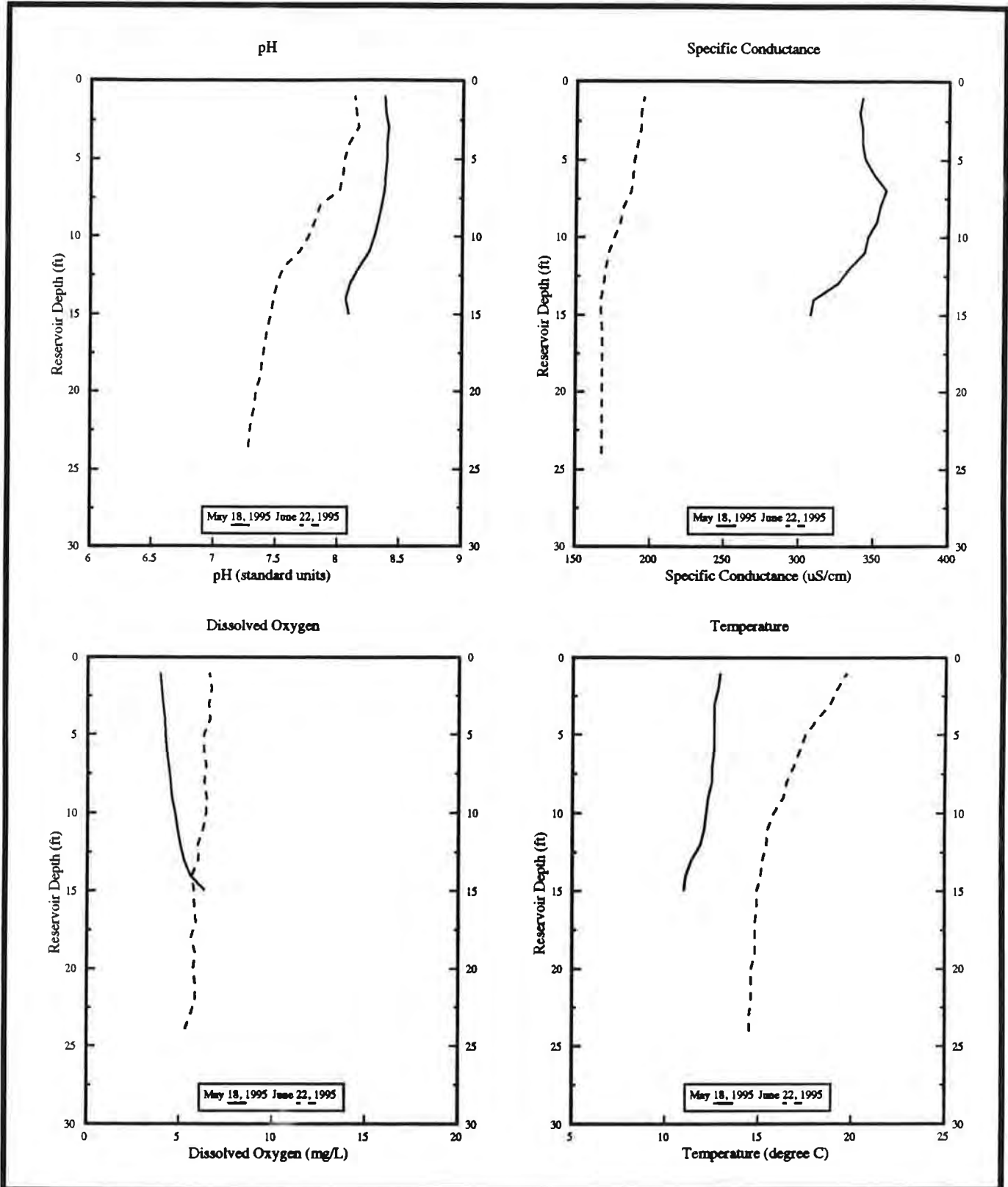
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CHATFIELD RESERVOIR 1995**



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Project No. 8047.50

Figure B-3A



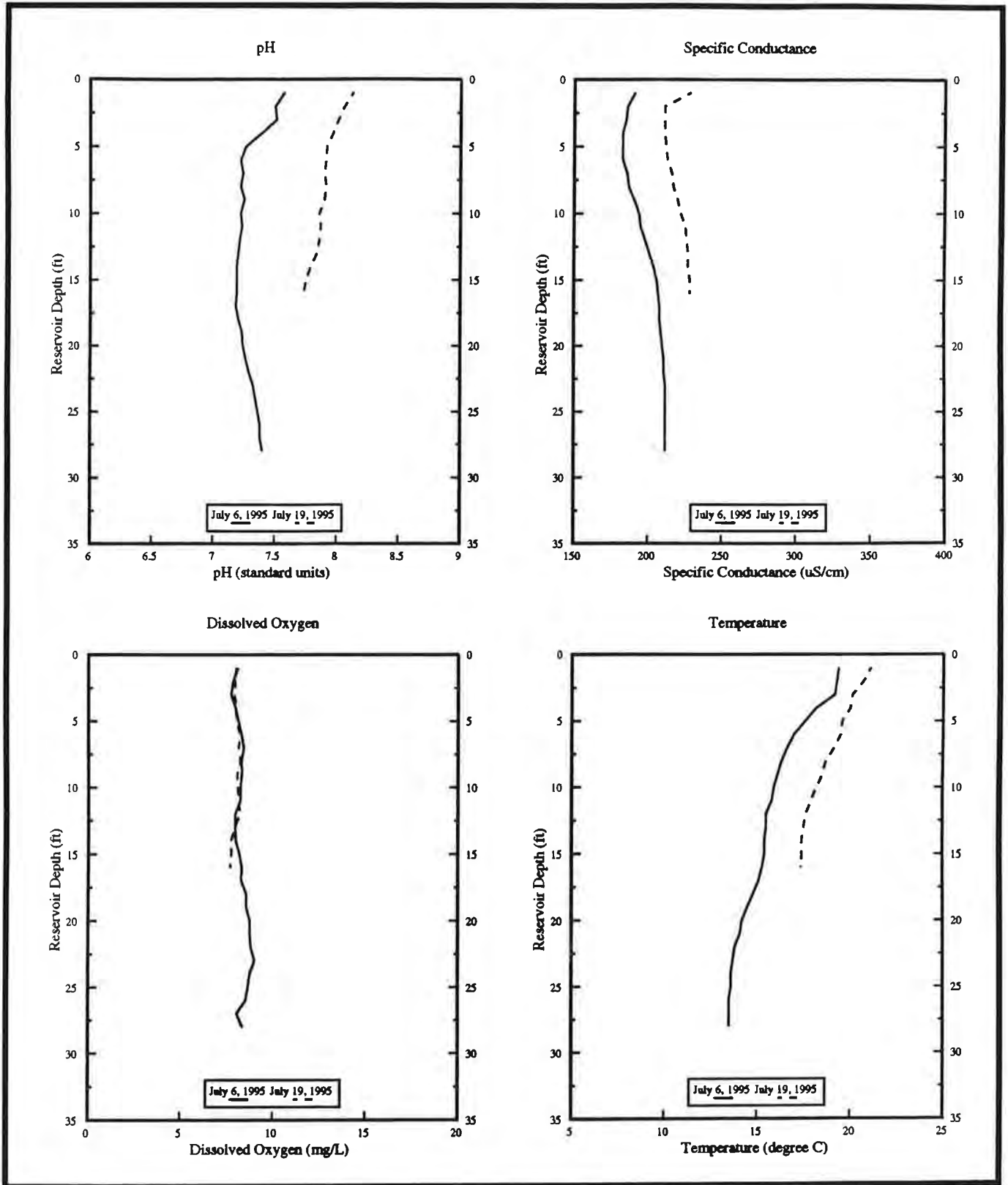
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 9 (RS)
CHATFIELD RESERVOIR 1995**



**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

Project No. 8047.50

Figure B-3B



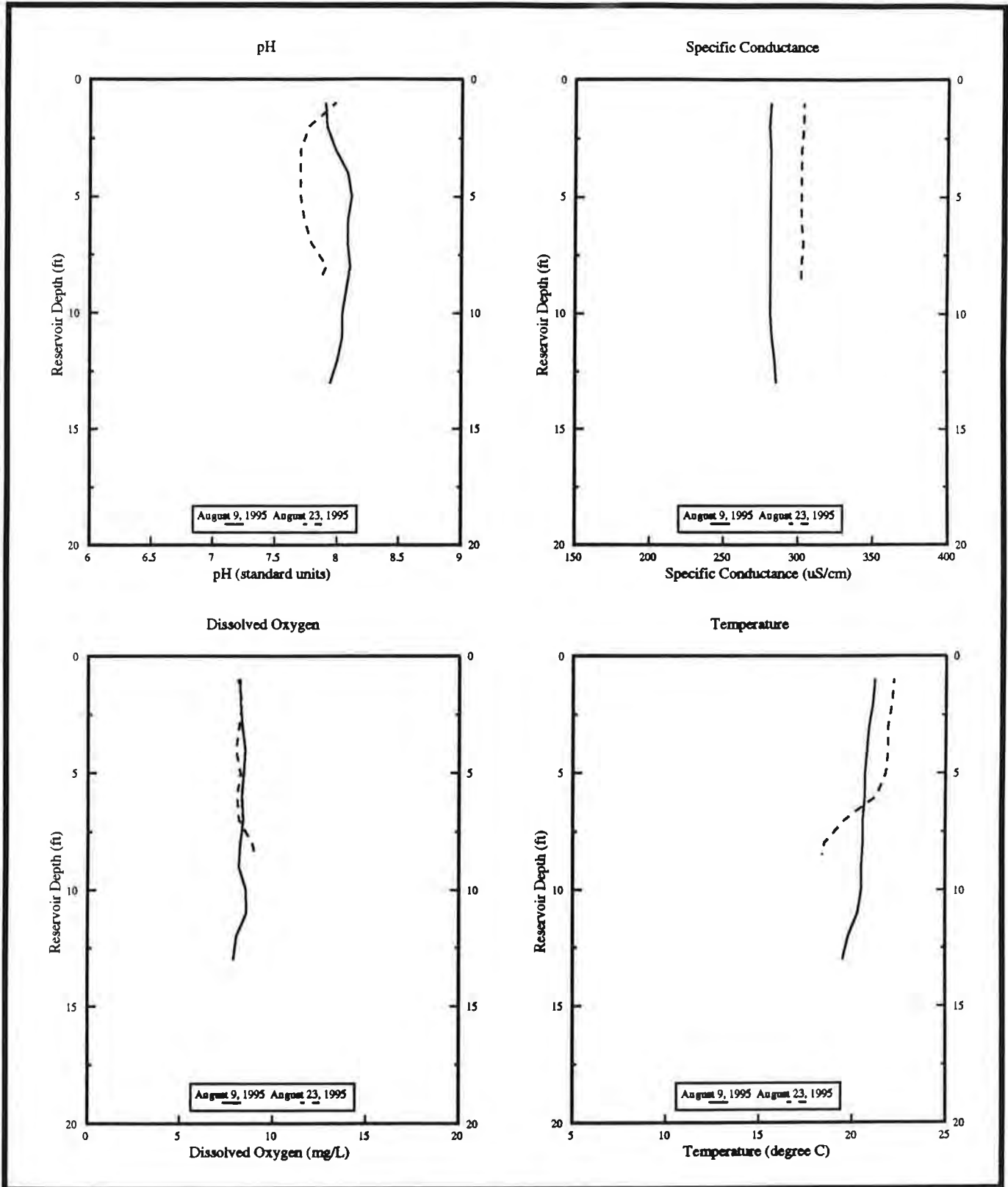
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 9 (RS)
CHATFIELD RESERVOIR 1995**



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Figure B-3C



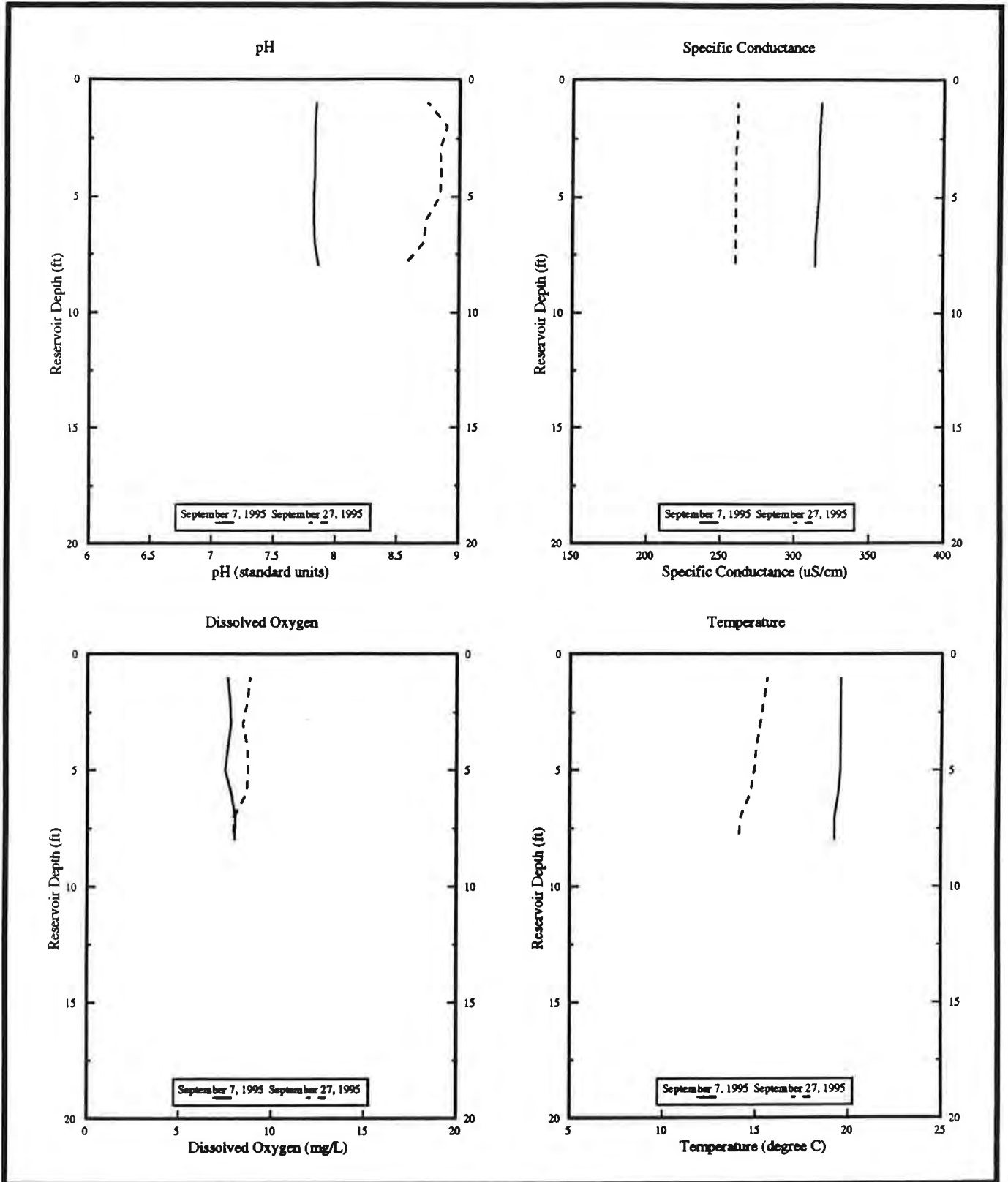
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 9 (RS)
CHATFIELD RESERVOIR 1995**



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Figure B-3D



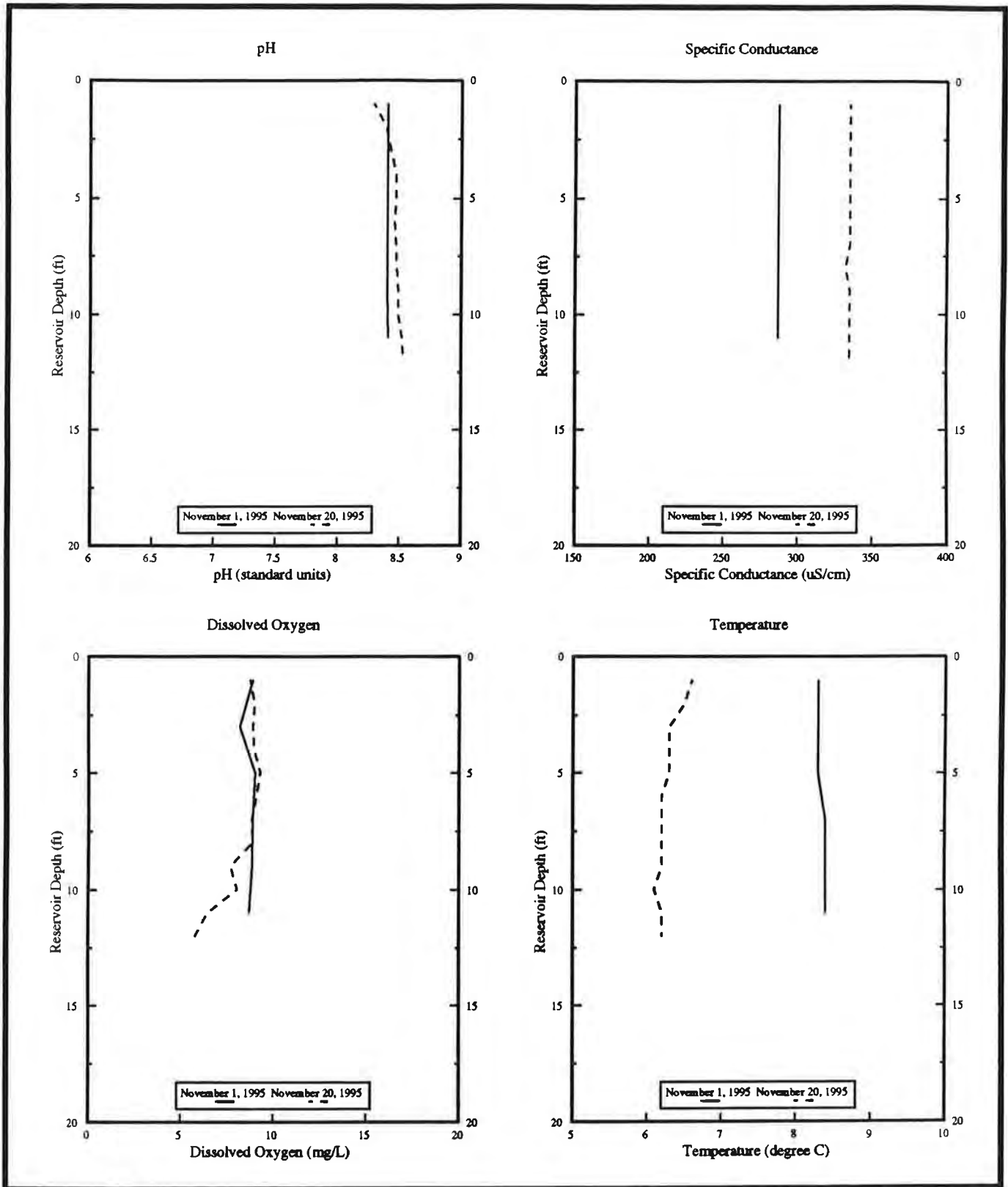
**IN-RESERVOIR DEPTH PROFILE DATA, SITE 9 (RS)
CHATFIELD RESERVOIR 1995**



**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

Project No. 8047.50

Figure B-3E



**IN-RESERVOIR DEPTH PROFILE DATA, SITE 9 (RS)
CHATFIELD RESERVOIR 1995**



**CHATFIELD BASIN AND RESERVOIR
WATER-QUALITY MONITORING PROGRAM**

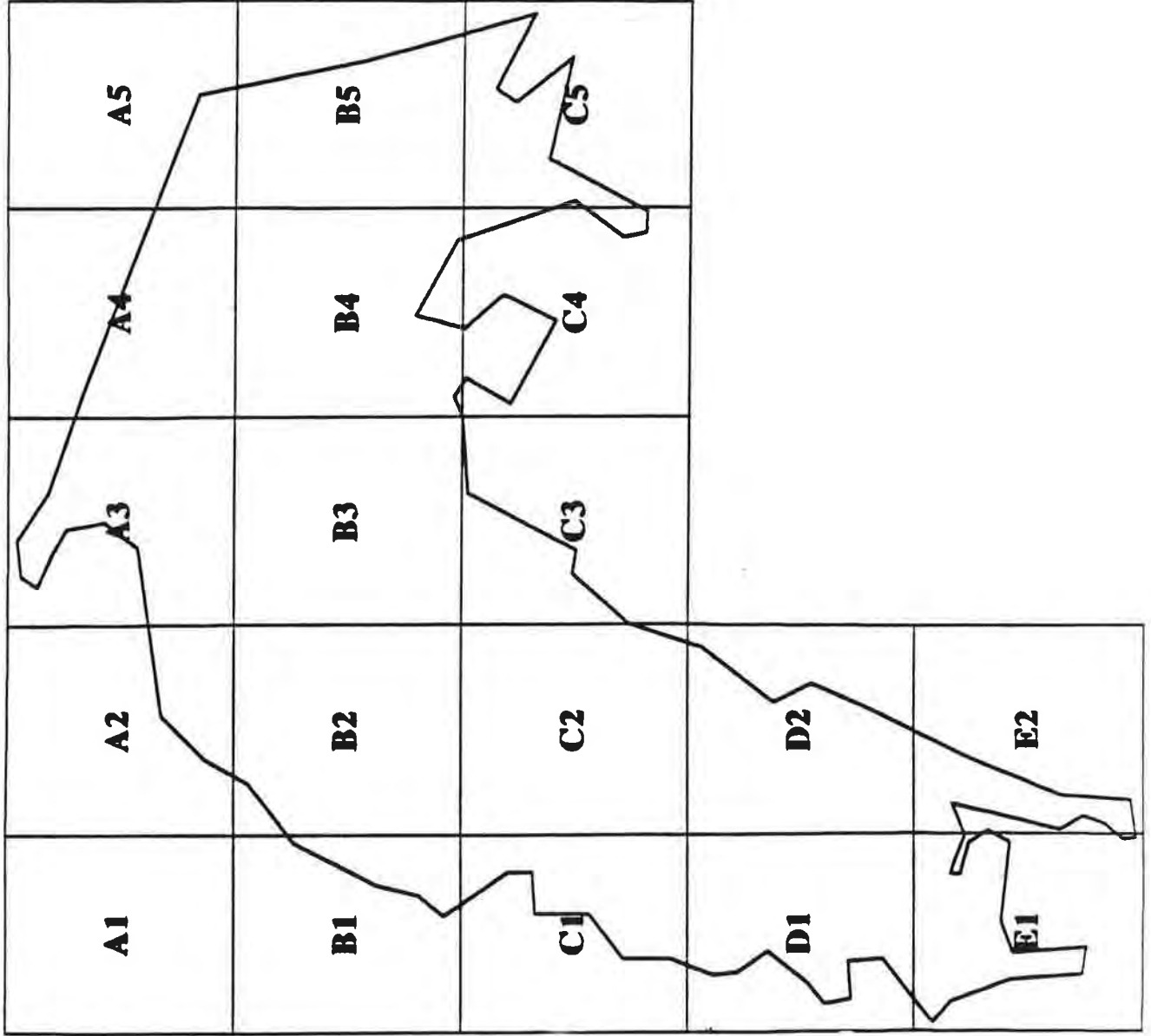
Project No. 8047.50

Figure B-3F

APPENDIX C

**SUPPLEMENTAL DISSOLVED OXYGEN DEPTH PROFILE
DATA SHEETS
1995 CY MONITORING PROGRAM**

Chatfield Reservoir Sample Reference Grids



CHATFIELD RESERVOIR
DISSOLVED OXYGEN DEPTH PROFILE DATA SHEET

Site: C-2		Samplers: KIP HILKS - JOSH NACLE	
Date: 6-2-95		Sample Time: 18:40	
Total Profile Depth (ft): 48'		General Weather: CLOUDY CALM	
Depth	Dissolved Oxygen	Temperature	Water Appearance and Notes
48'	7.31	10.6°	
45'	7.56	10.3°	
42'	7.48	10.2°	
39'	7.51	10.1	
36	7.47	10.1	
33	7.68	10.0	
30	8.19	10.0	
27	8.84	10.0	
24	9.01	10.3	
21	9.03	10.7	
18	8.97	10.9	
15	9.13	12.4	
12	9.00	14.0	
9	8.80	14.1	
6	8.81	14.2	
3	8.84	14.2	

CHATFIELD RESERVOIR
DISSOLVED OXYGEN DEPTH PROFILE DATA SHEET

Site: 135		Samplers: Josh N. Kip H.	
Date: 060295		Sample Time: 17:00	
Total Profile Depth (ft): 17'		General Weather: Cloudy - Calm	
Depth	Dissolved Oxygen mg/L	Temperature	Water Appearance and Notes
15'	7.68	12.3 °C	Calm
12'	8.59	13.5 °C	7 2ft Vis
9'	8.77	14.2 °C	
6'	8.80	14.4 °C	
3'	8.50	14.5 °C	

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JUN 15 1995

CHATFIELD RESERVOIR
DISSOLVED OXYGEN DEPTH PROFILE DATA SHEET

Site: C-2		Samplers: Josh N. Kip H.	
Date: 060295		Sample Time: 18:00	
Total Profile Depth (ft): 48'		General Weather: Warm / Cloudy	
Depth	Dissolved Oxygen mg/L	Temperature	Water Appearance and Notes
48'	7.31	10.6 °C	Crusty Winds
45'	7.56	10.3 °C	Strong Currents
42'	7.48	10.2 °C	Cloudy - RAINING
39'	7.51	10.1 °C	
36'	7.47	10.1 °C	
33'	7.68	10.0 °C	
30'	8.19	10.0 °C	
27'	8.84	10.0 °C	
24'	9.01	10.3 °C	
21'	9.03	10.7 °C	
18'	8.97	10.9 °C	
15'	9.13	12.4 °C	
12'	9.00	14.0 °C	
9'	8.80	14.1 °C	
6'	8.81	14.2 °C	
3'	8.84	14.7 °C	

