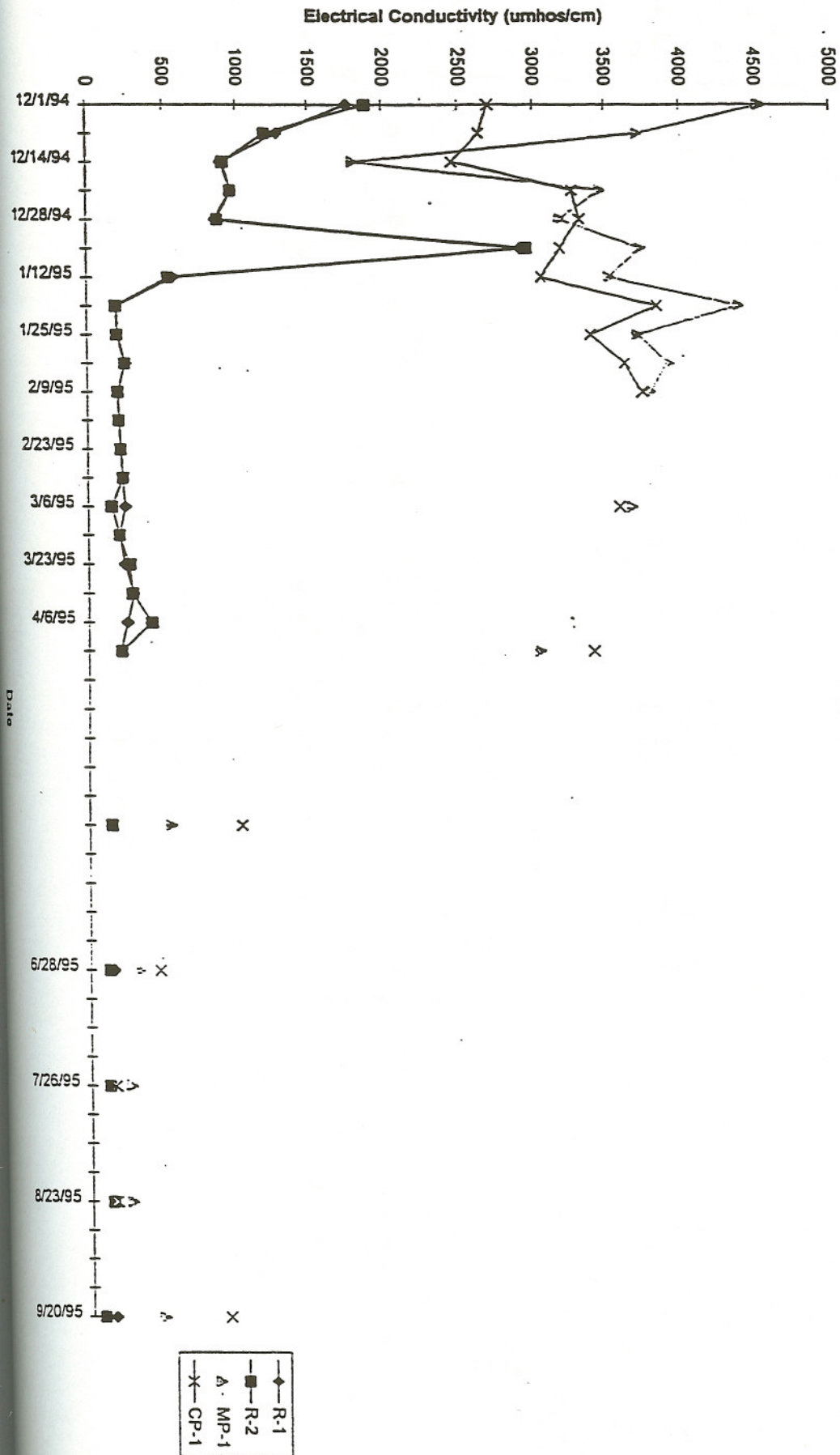
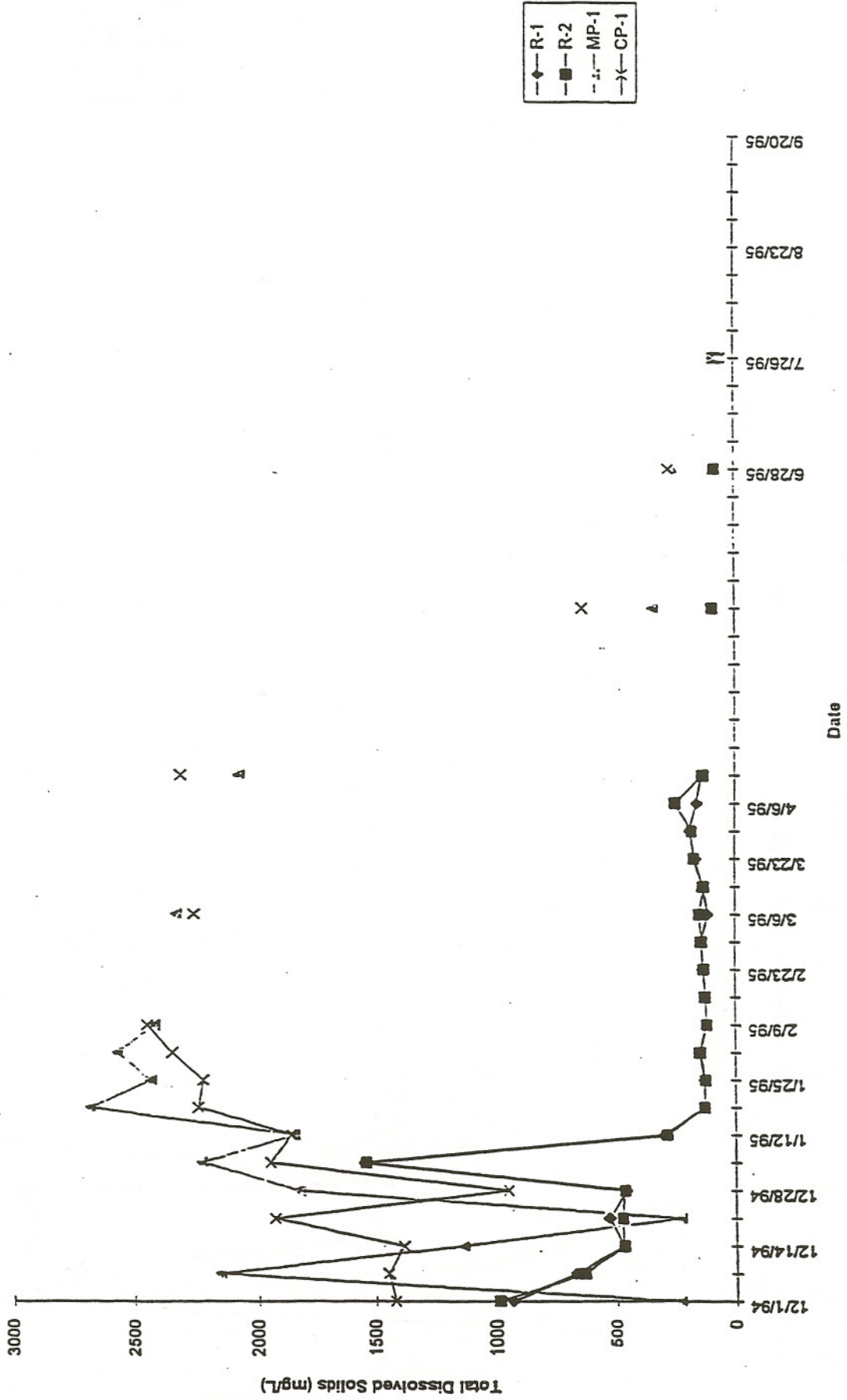


ECRW&AD Chart 1

Electrical Conductivity Measurements in Receiving Water and Agricultural Drains

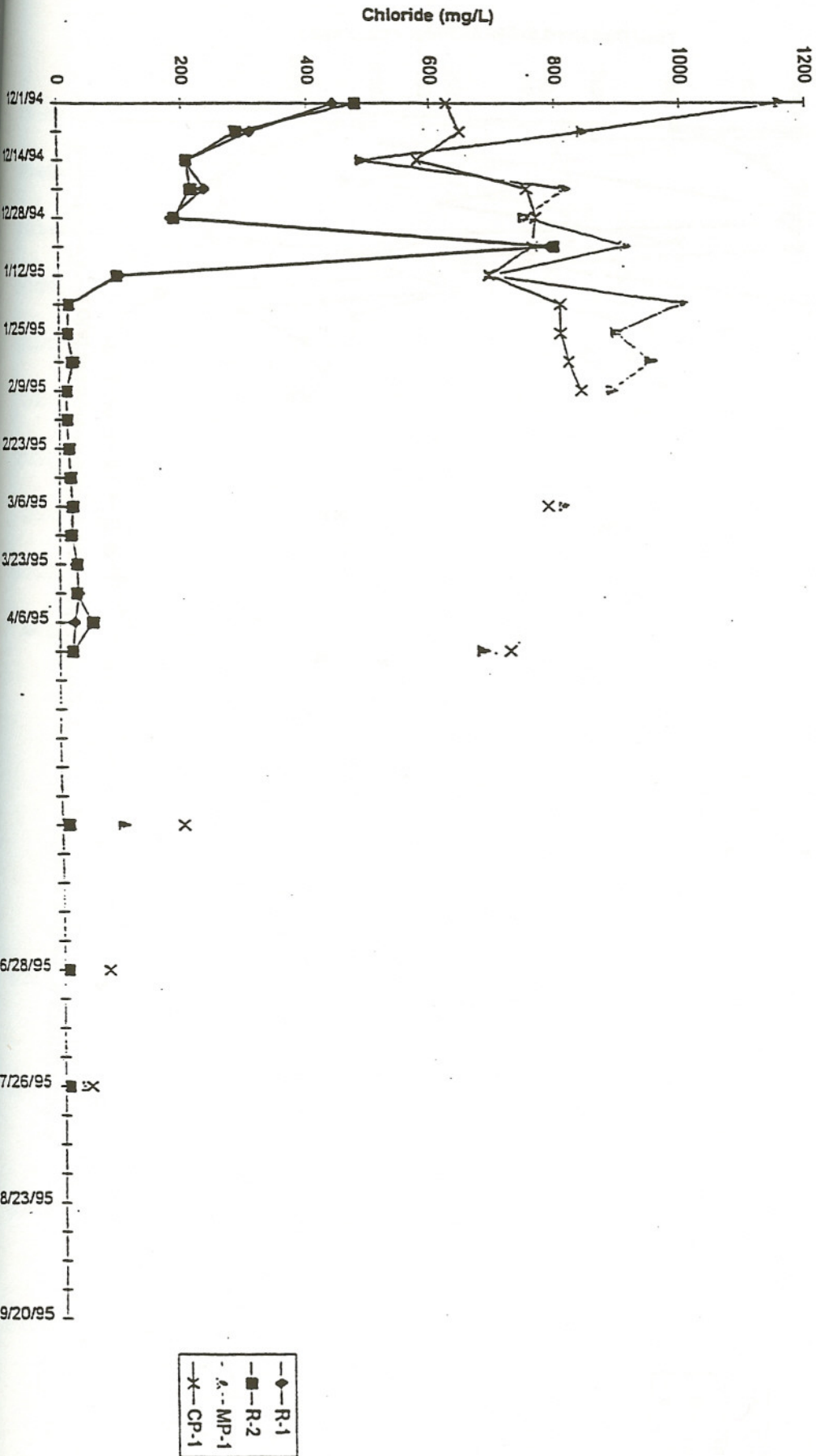


Total Dissolved Solids Concentrations in Recolving Water and Agricultural Drains

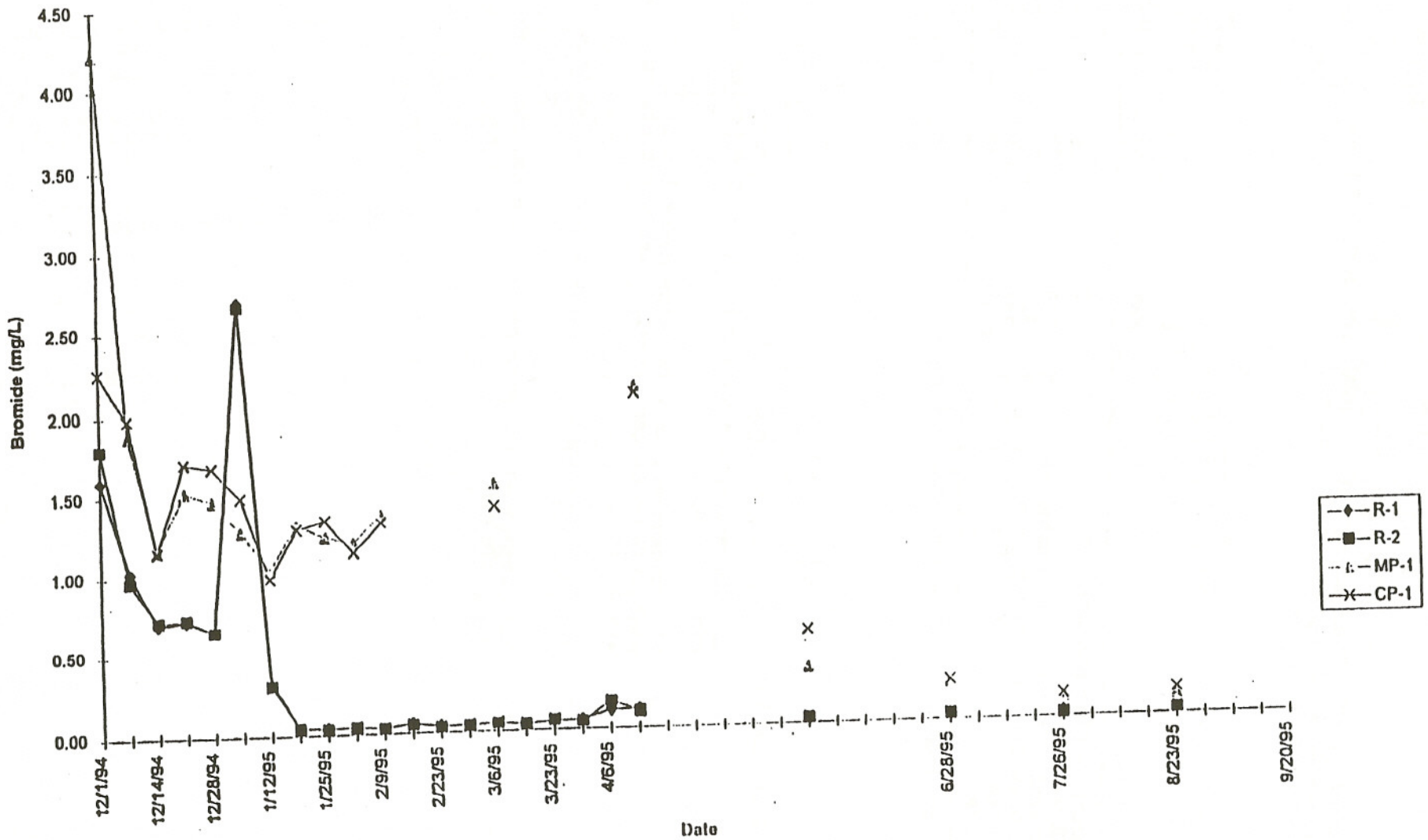


CLRWA&AD Chart 1

Chloride Concentrations in Receiving Water and Agricultural Drains



Bromide Concentrations in Receiving Water and Agricultural Drains



COMPLIANCE POINTS (Monitoring Wells: MWA, MWB, MWC, MWD)
 Background Data (in mg/L except as noted)
 Sampling Date: 12/20/94

Constituent	MWA	MWB	MWC*	MWD
Temperature (degrees Celcius)	16.1	16.6	16.1	15.4
pH (pH units)	6.7	6.5	5.9	6.5
Electrical Conductivity (umhos/cm)	1500	2590	1000	690
Total Dissolved Solids	829	1390	508	376
Chlorides	396	276	259	157
Bromides	1.30	2.28	1.00	0.51

* No dredged material was placed in Area C

Dissolved Metals:

- MWA: All concentrations were below detection limits except for arsenic, which was 0.002 mg/L.
- MWB: All concentrations were below detection limits except for arsenic, which was 0.010 mg/L; for nickel, which was 0.023 mg/L; and for zinc, which was 0.018 mg/L.
- MWC: All concentrations were below detection limits except for arsenic, which was 0.001 mg/L.
- MWD: All concentrations were below detection limits except for arsenic, which was 0.001 mg/L.

COMPLIANCE POINTS (Monitoring Wells: MWA, MWB, MWC, MWD)
 Monitoring (in mg/L except as noted)

Minerals and General Water Parameters	Monitoring Period	MWA	MWB	MWC*	MWD
Temperature (degrees Celcius)	12/29/94 - 9/21/95	15.8 - 18.1	14.2 - 21.2	15.5 - 17.5	15.5 - 17.2
pH (pH units)	12/29/94 - 9/21/95	6.2 - 6.7	5.8 - 7.1	5.8 - 6.6	6.0 - 6.8
Electrical Conductivity (umhos/cm)	12/29/94 - 9/21/95	1,280 - 1,470	1,156 - 2,530	720 - 900	628 - 934
Total Dissolved Solids	12/29/94 - 8/24/95	742 - 825	679 - 1,500	414 - 484	348 - 636
Chlorides	12/29/94 - 8/24/95	337 - 378	114 - 268	170 - 215	129 - 208
Sulfides	12/29/94 - 9/21/95	0.98 - 1.35	0.97 - 2.30	0.52 - 0.80	0.21 - 0.78

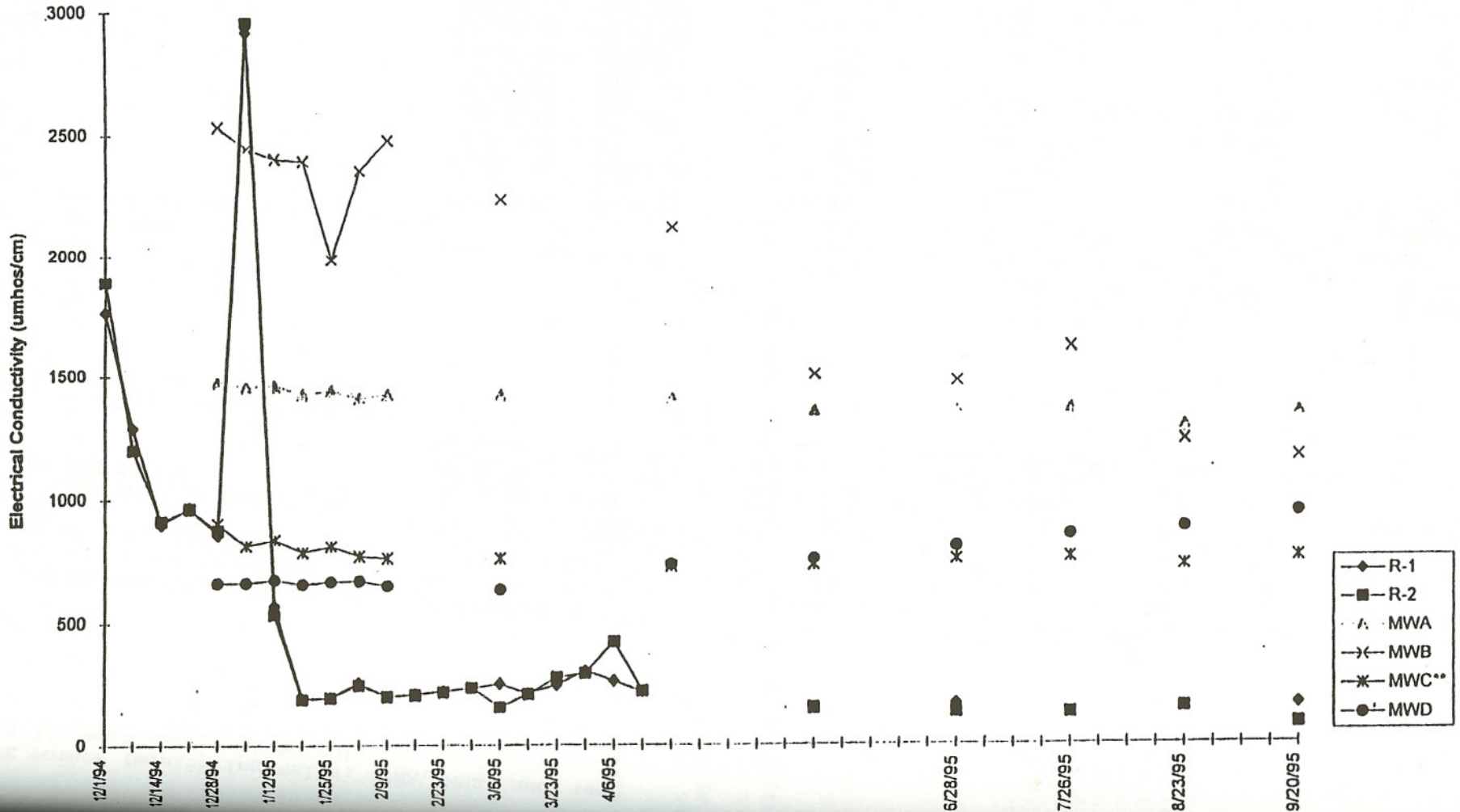
No dredged material was placed in Area C

Dissolved Trace Metals	Monitoring Period	MWA	MWB	MWC*	MWD
Arsenic	12/29/94 - 8/24/95	<0.001	0.014 - 0.076	0.002 - 0.004	0.002 - 0.003
Cadmium	12/29/94 - 8/24/95	<0.005	<0.005	<0.005	<0.005
Chromium	12/29/94 - 8/24/95	<0.005	<0.005	<0.005	<0.005
Copper	12/29/94 - 8/24/95	<0.005	<0.005	<0.005	<0.005
Lead	12/29/94 - 8/24/95	<0.002	<0.002	<0.002	<0.002
Mercury	12/29/94 - 8/24/95	<0.001	<0.001	<0.001	<0.001
Nickel	12/29/94 - 8/24/95	<0.005	<0.005 - 0.018	<0.005	<0.005
Selenium	12/29/94 - 8/24/95	<0.001	<0.001	<0.001	<0.001
Silver	12/29/94 - 8/24/95	<0.005	<0.005	<0.005	<0.005
Thallium	12/29/94 - 8/24/95	<0.002	<0.002	<0.002	<0.002
Zinc	12/29/94 - 8/24/95	<0.005 - 0.013	<0.005 - 0.014	<0.005	<0.005

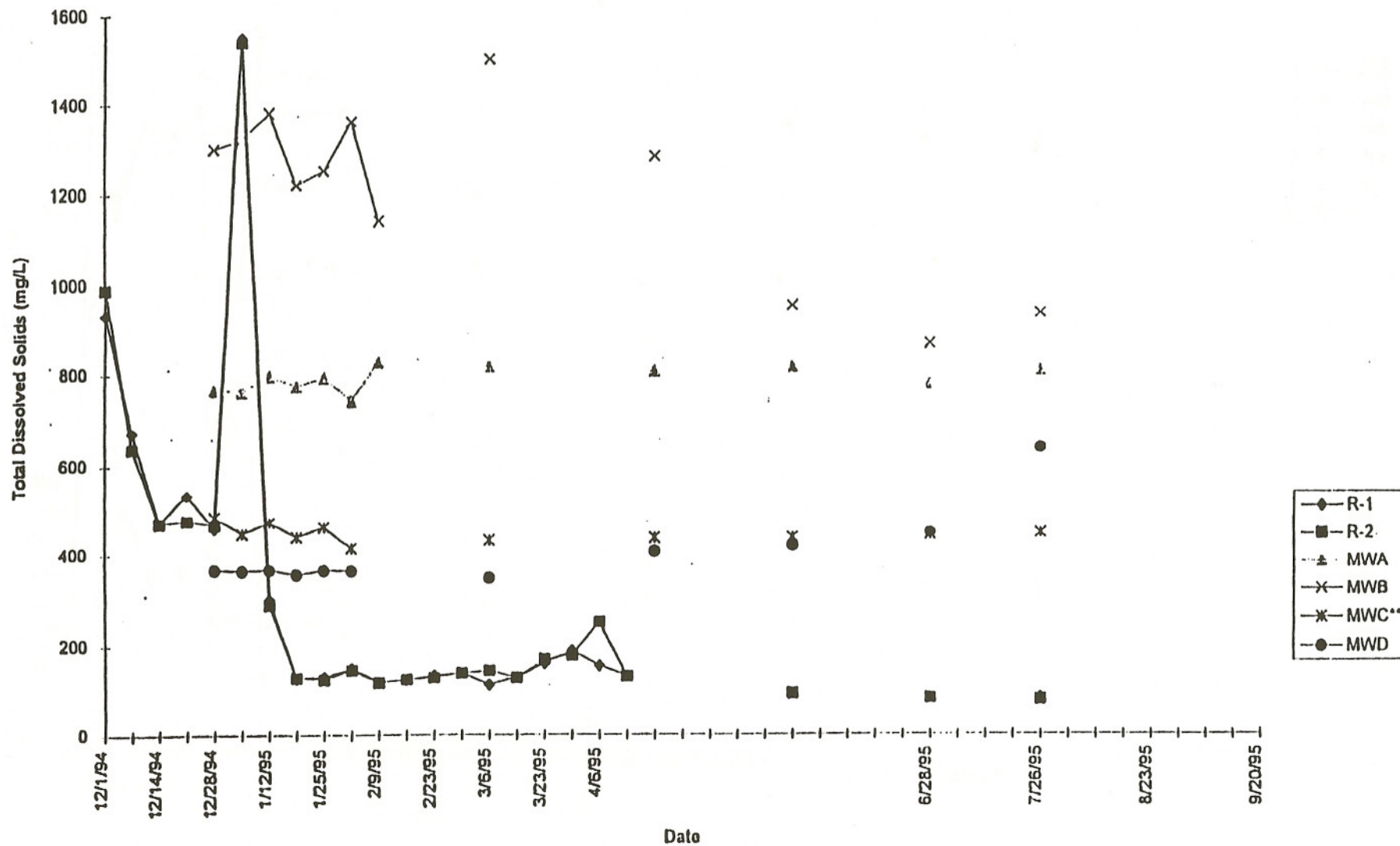
* No dredged material was placed in Area C

ECRW&MW Chart 1

Electrical Conductivity Measurements in Receiving Water and Monitoring Wells

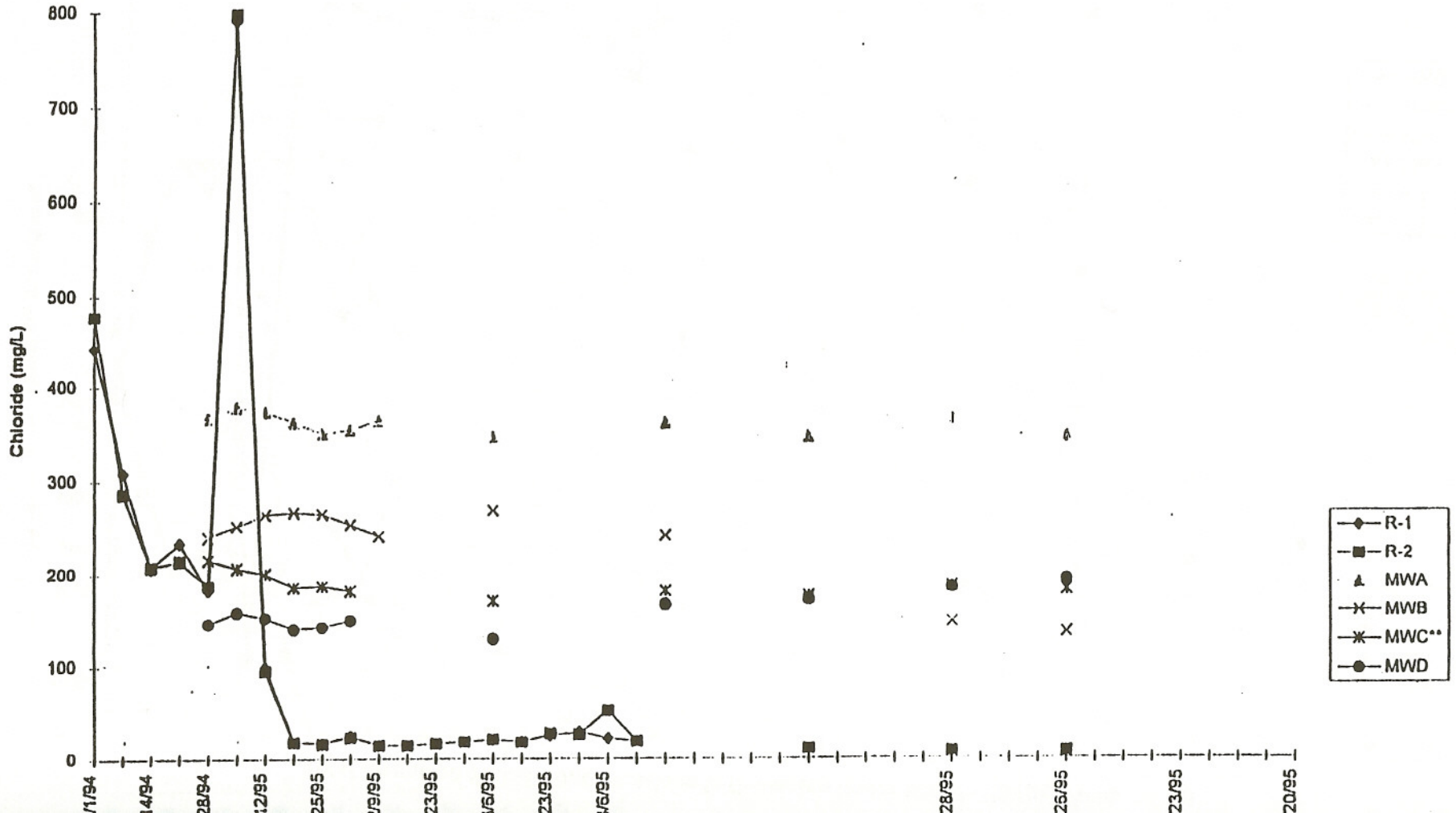


Total Dissolved Solids Concentrations in Receiving Water and Monitoring Wells

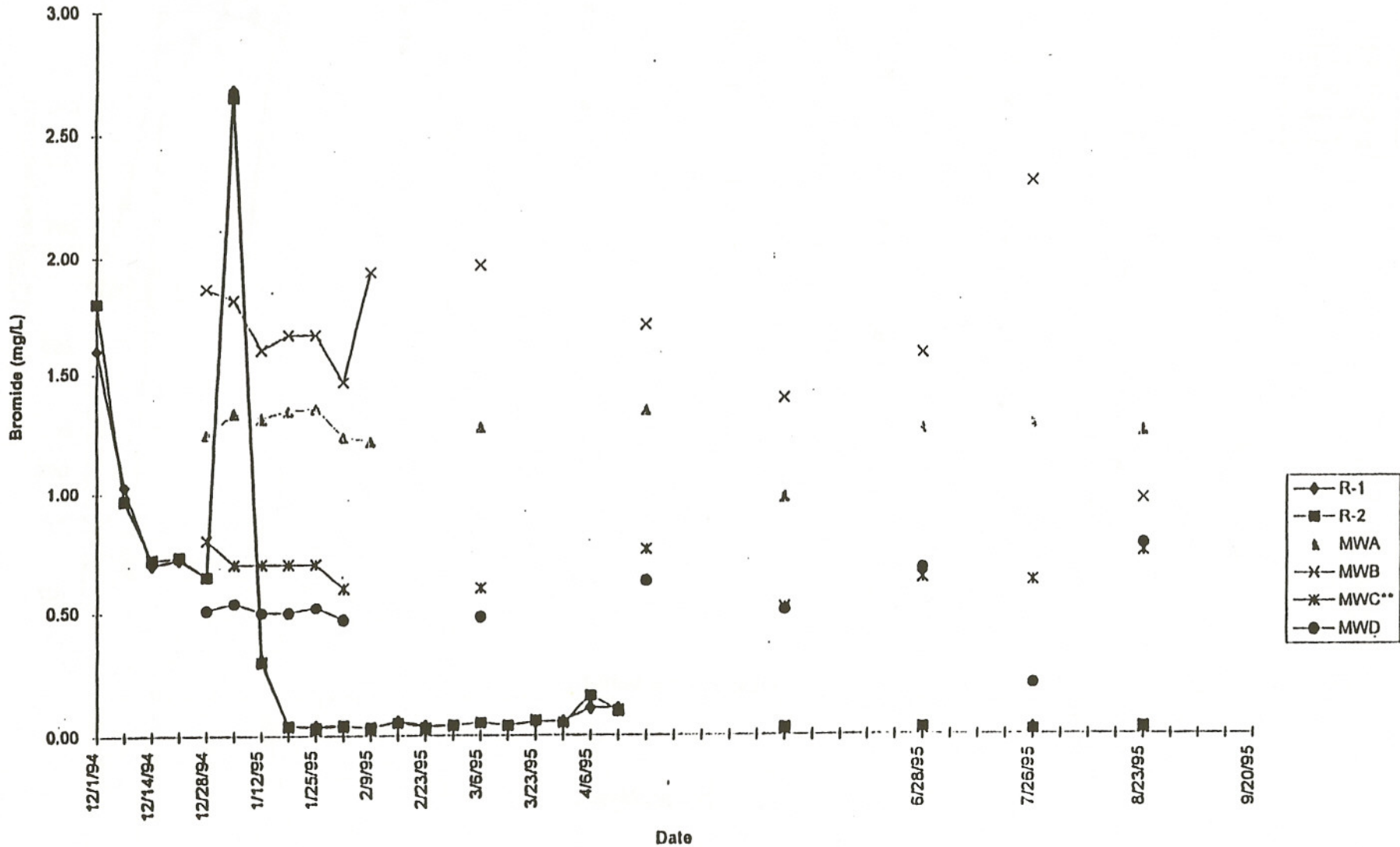


CLRW&MW Chart 1

Chloride Concentrations in Receiving Water and Monitoring Wells

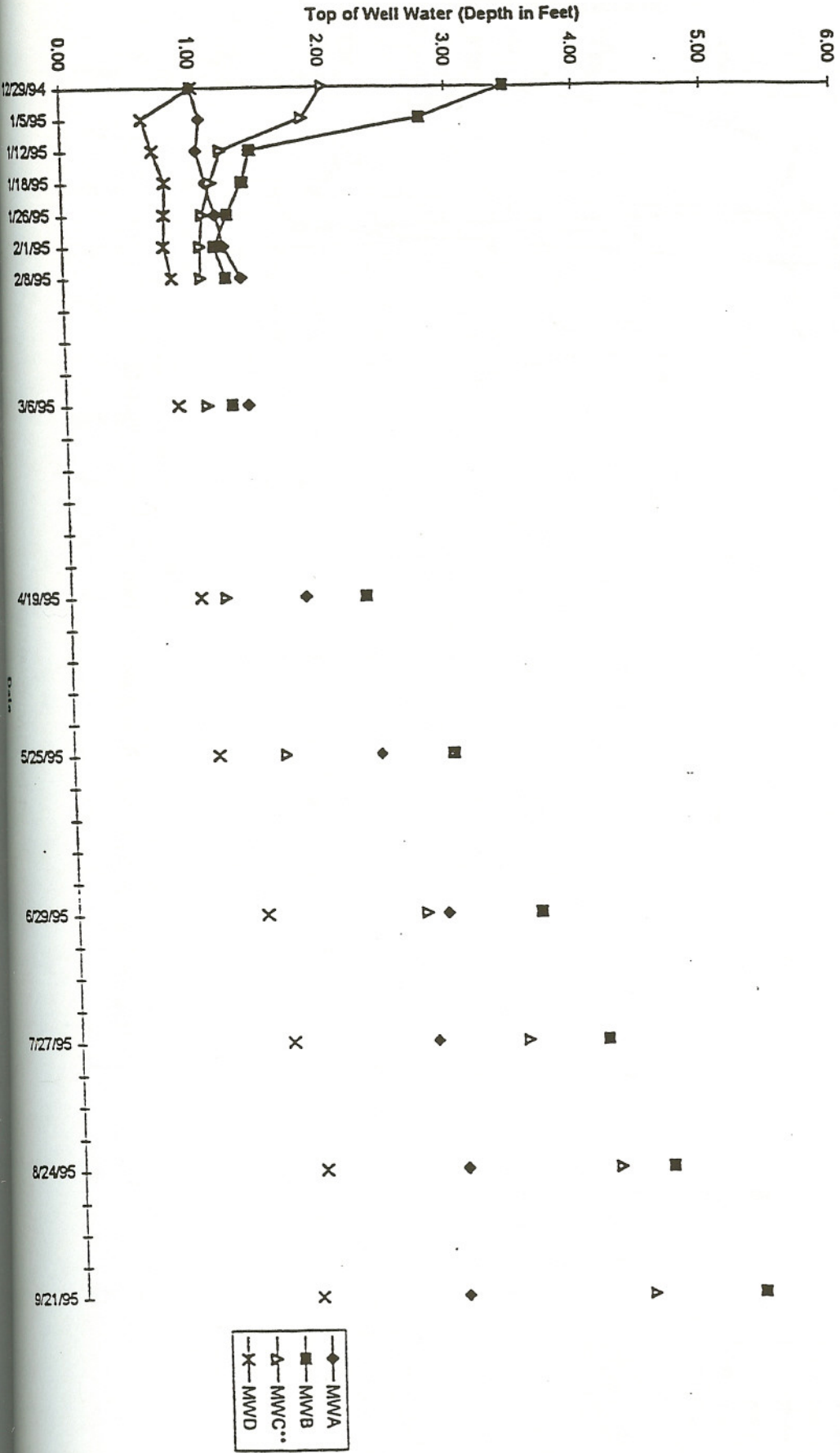


Bromide Concentrations in Receiving Water and Monitoring Wells

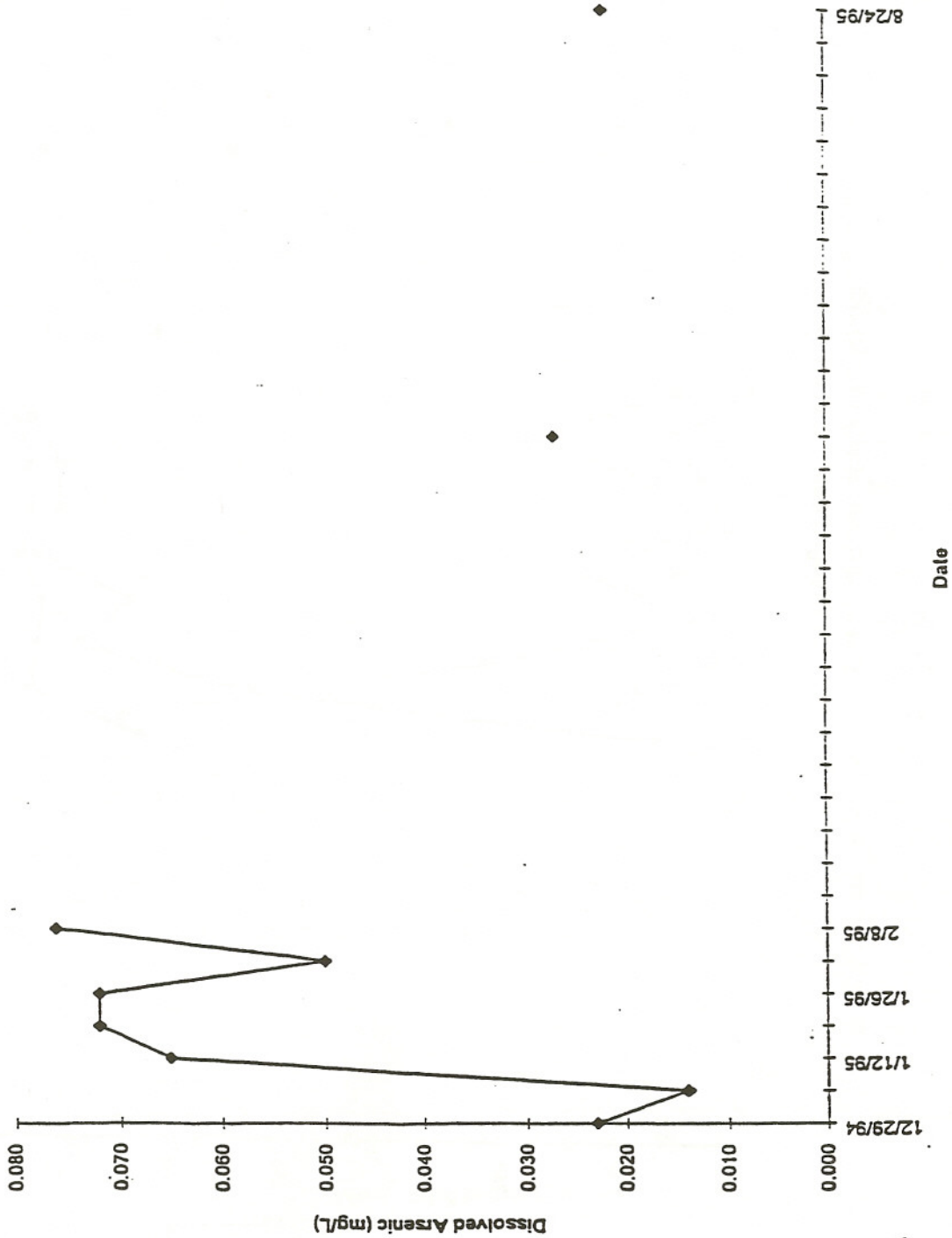


CPMWFEEET Chart 1

Ground Water Levels

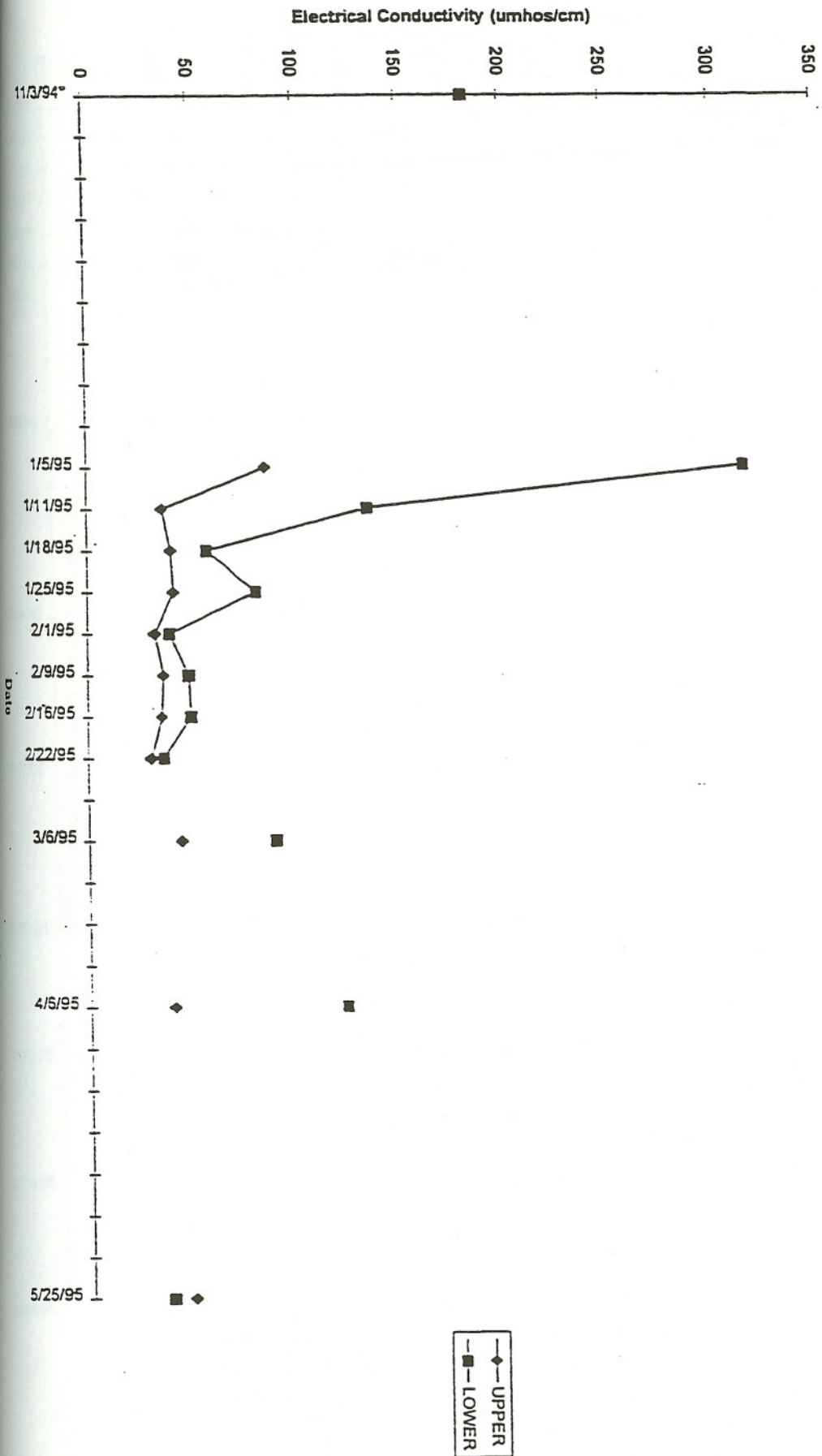


Dissolved Arsenic Concentrations at MWB

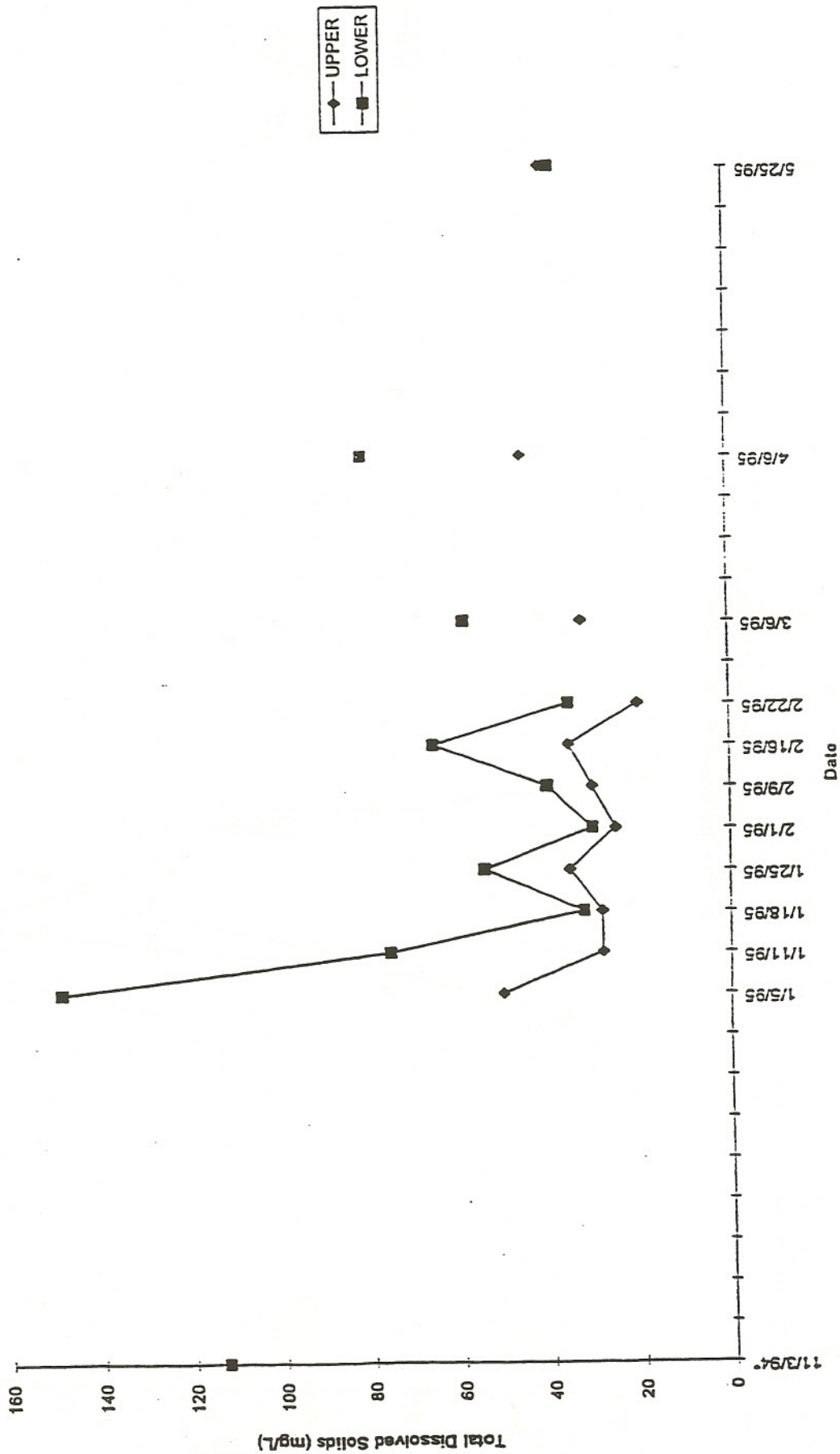


AREA-A Chart 1

Electrical Conductivity after DI WET
of Dredged Sediment in Area A

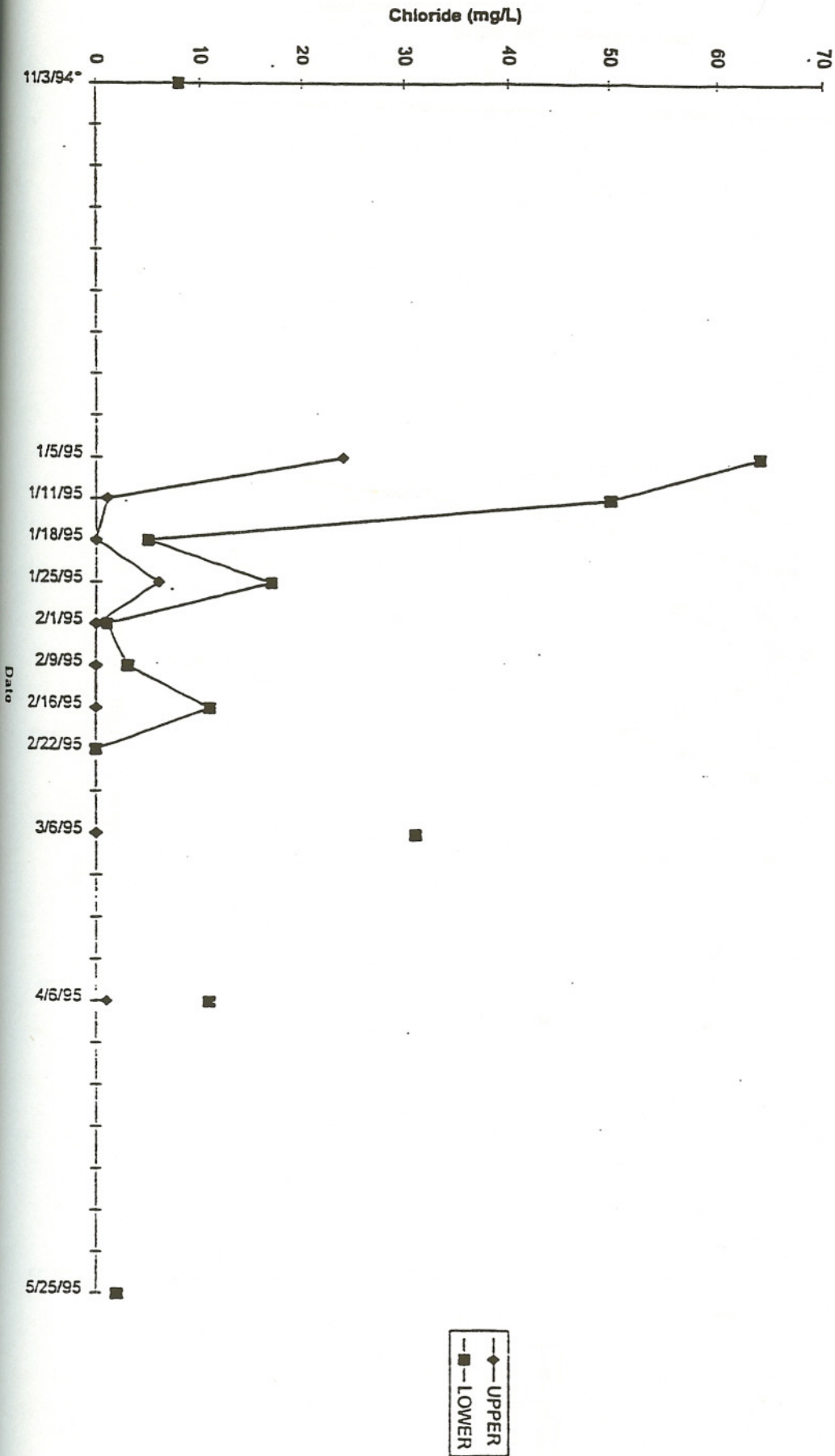


Total Dissolved Solids after DI WET of Dredged Sediment in Area A

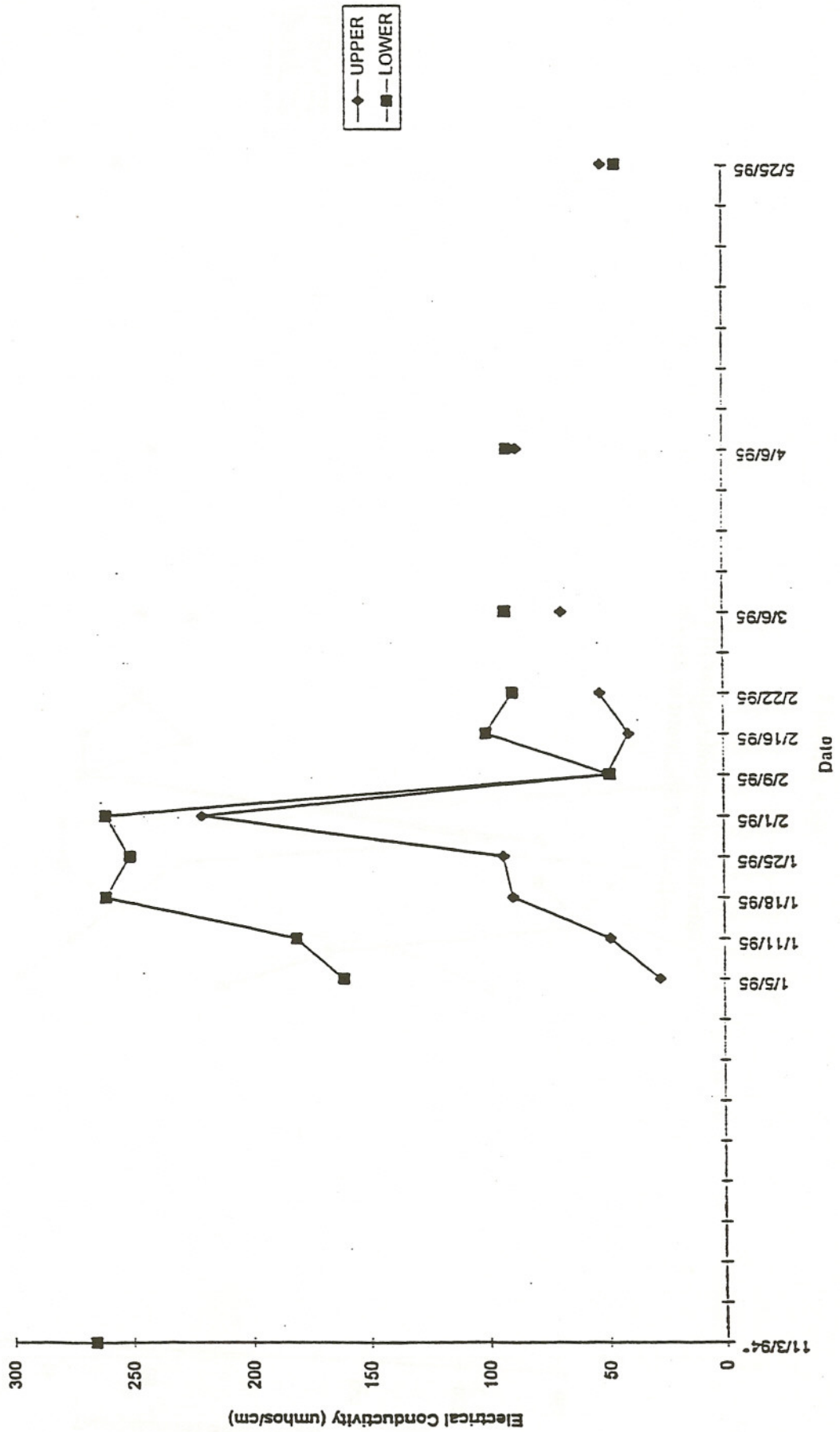


AREA-A Chart 1

Chloride Concentrations after DI WET
of Dredged Sediment in Area A

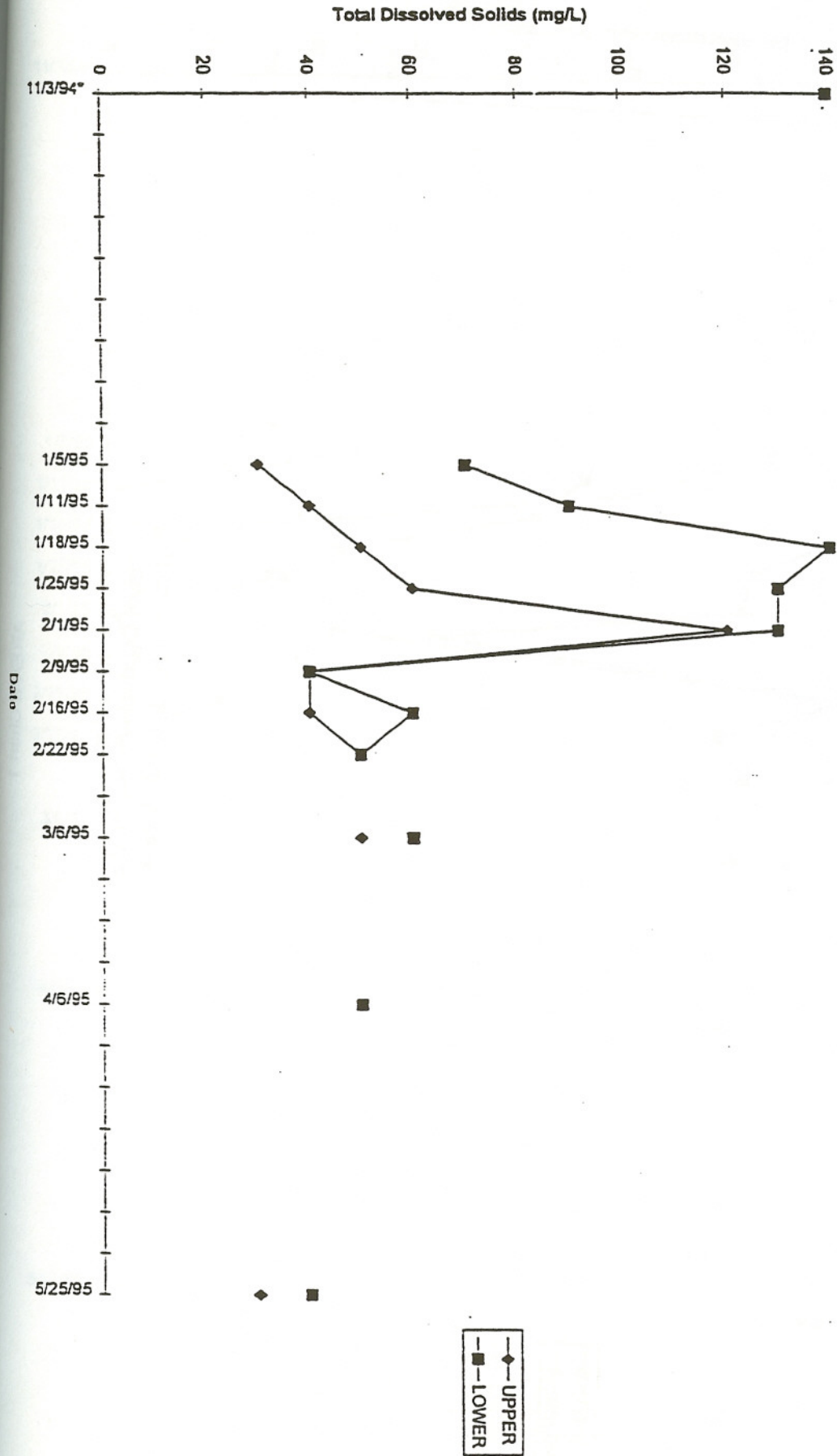


Electrical Conductivity after DI WET of Dredged Sediment in Area B



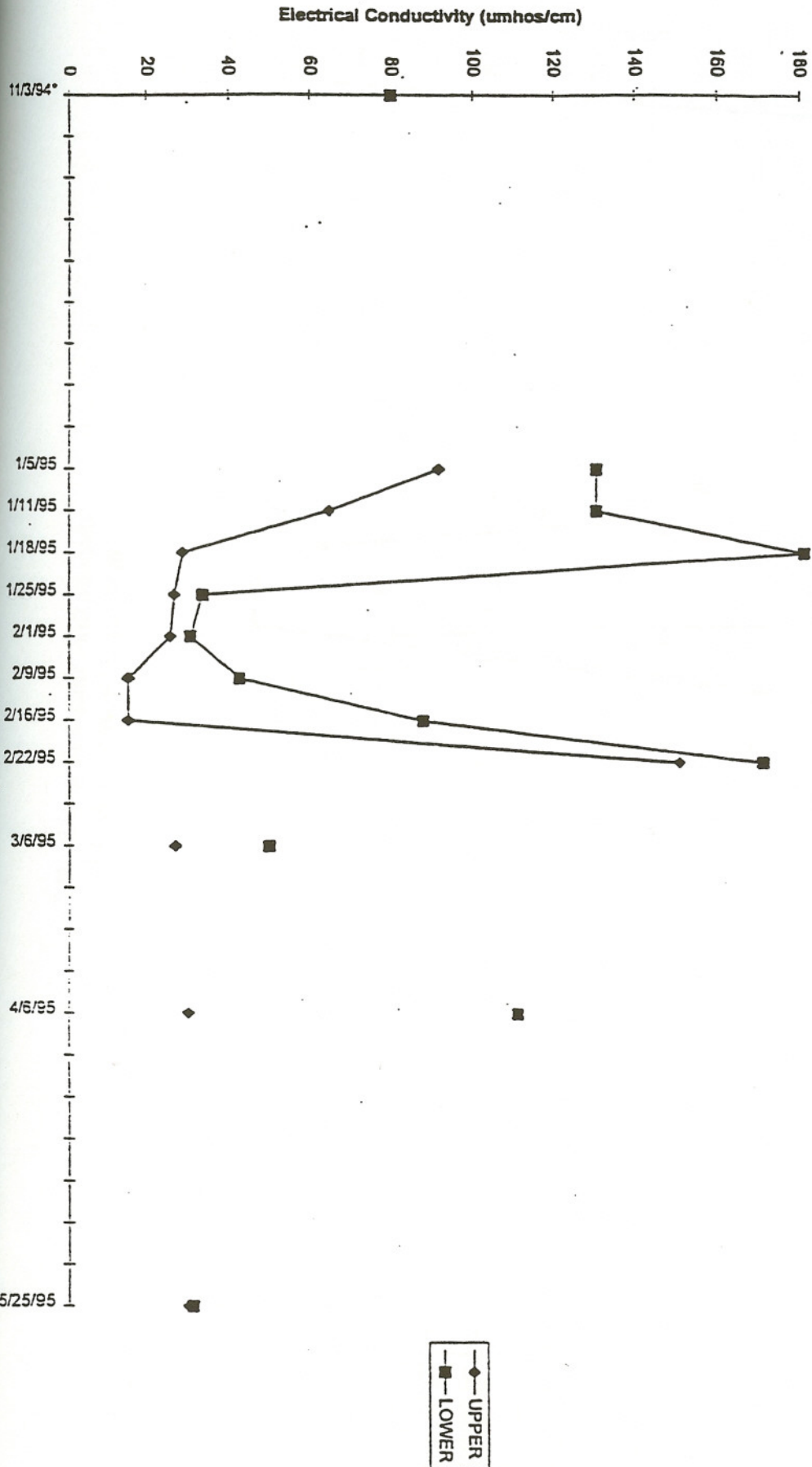
AREA-B Chart 1

Total Dissolved Solids after DI WET
of Dredged Sediment in Area B

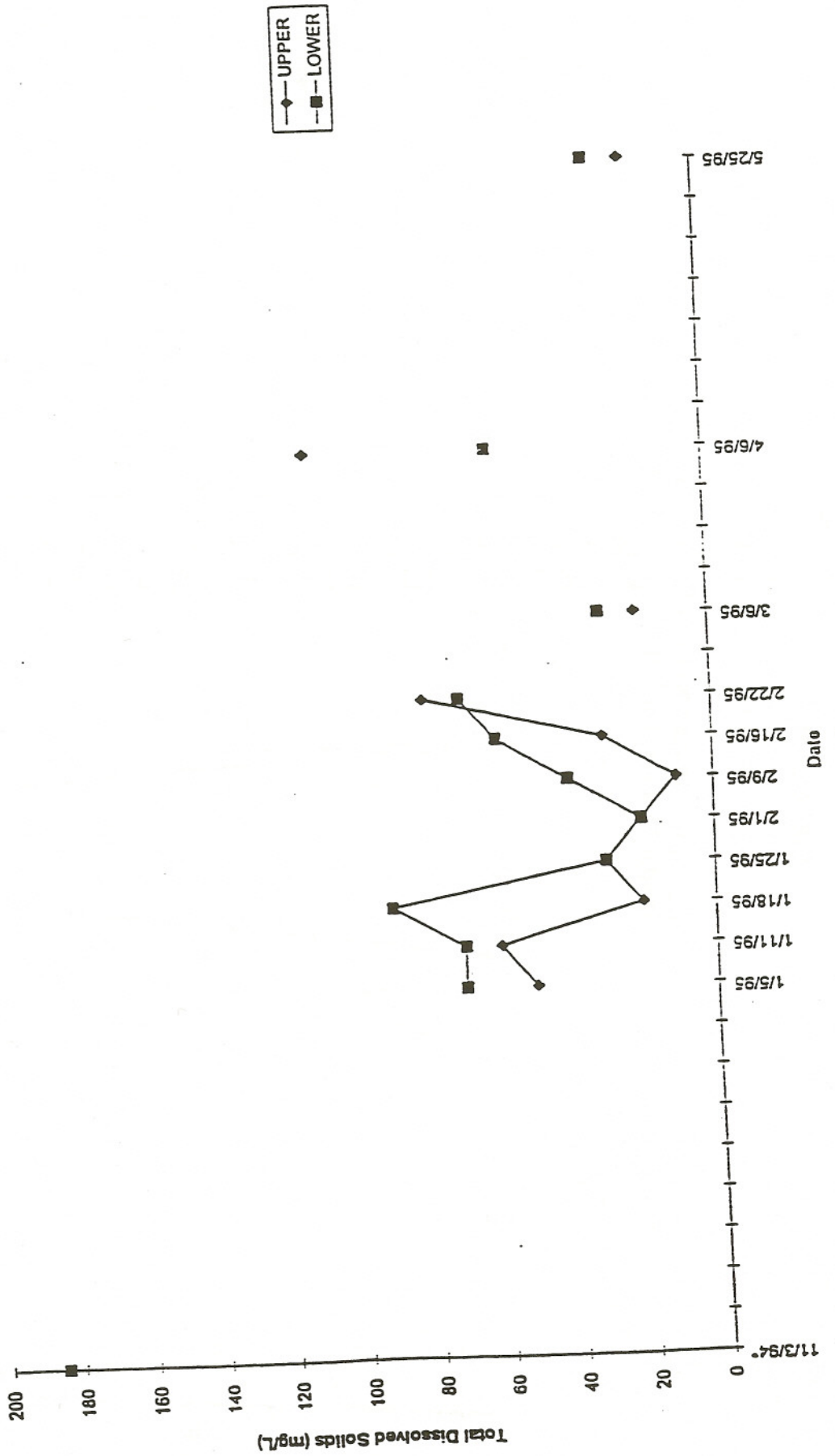


AREA-D Chart 1

Electrical Conductivity after DI WET
of Dredged Sediment in Area D

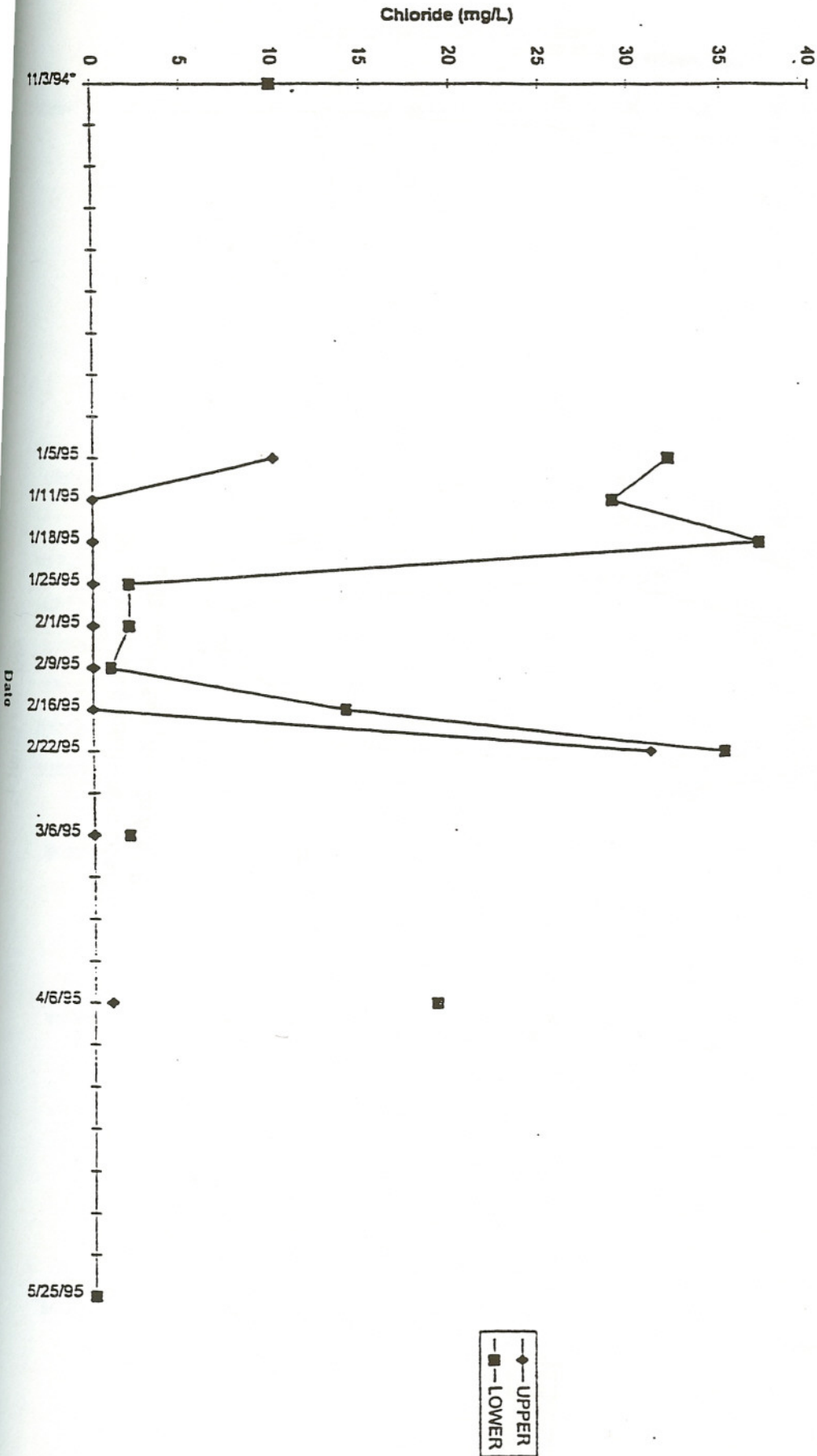


Total Dissolved Solids after DI WET of Dredged Sediment in Area D



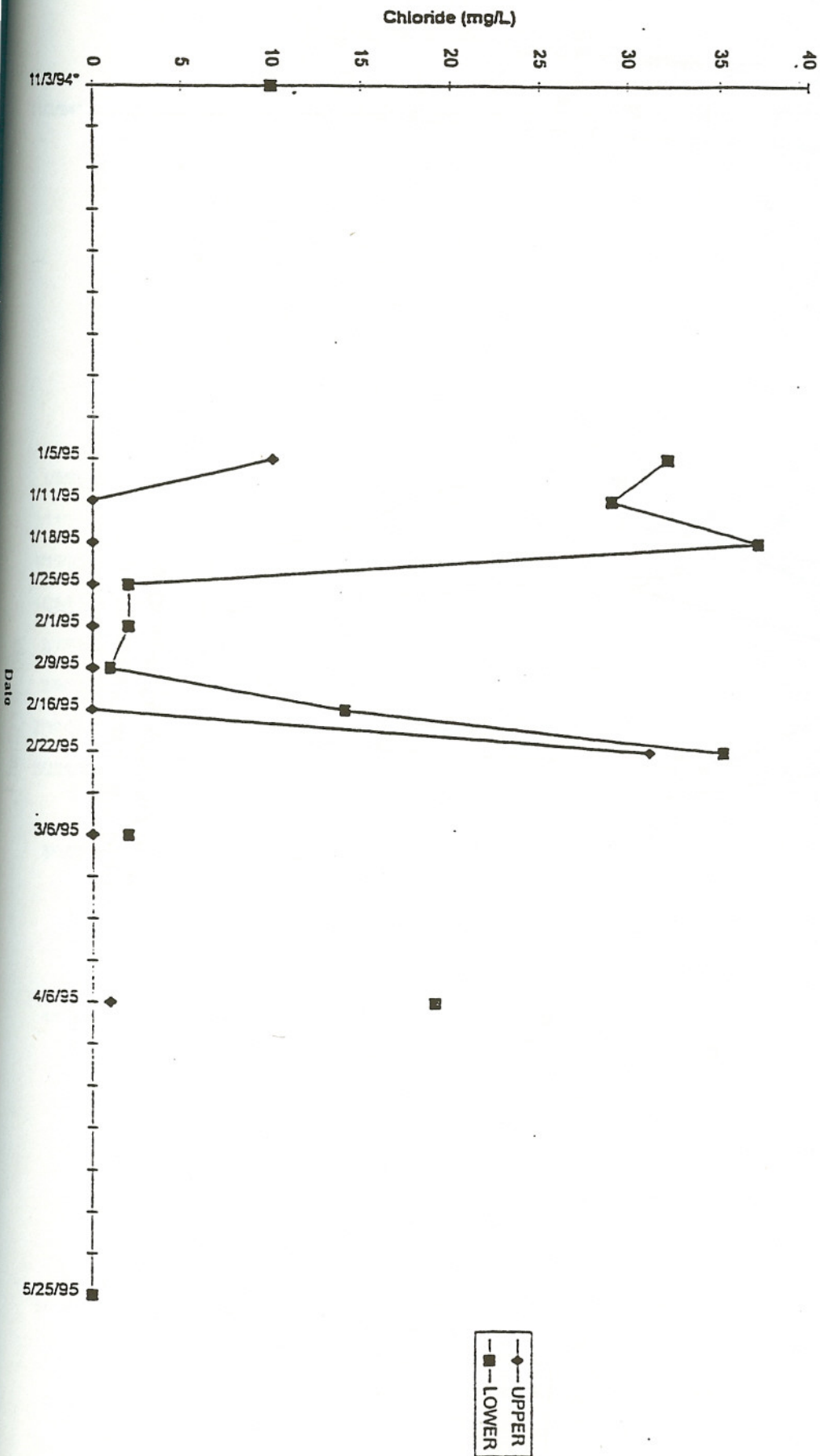
AREA-D Chart 1

Chloride Concentrations after DI WET
of Dredged Sediment in Area D



AREA-D Chart 1

Chloride Concentrations after DI WET
of Dredged Sediment in Area D



APPENDIX L

**Benefit Assessment of Alternative Long-Term Management Strategies
for the Disposal of Dredged Materials from San Francisco Bay**

Benefit Assessment of Alternative Long-Term Management Strategies for the Disposal of Dredged Materials from San Francisco Bay



Prepared for:
**U.S. Environmental Protection Agency
Region 9
San Francisco, California**

Prepared by:
**Jones & Stokes Associates, Inc.
Sacramento, California**

September 30, 1995

**Benefit Assessment of Alternative Long-Term
Management Strategies for the Disposal
of Dredged Materials from
San Francisco Bay**

Prepared for:

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September 30, 1995

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