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Figure A-1
MW-103S; Total Volatile Organic Compounds and Xylene

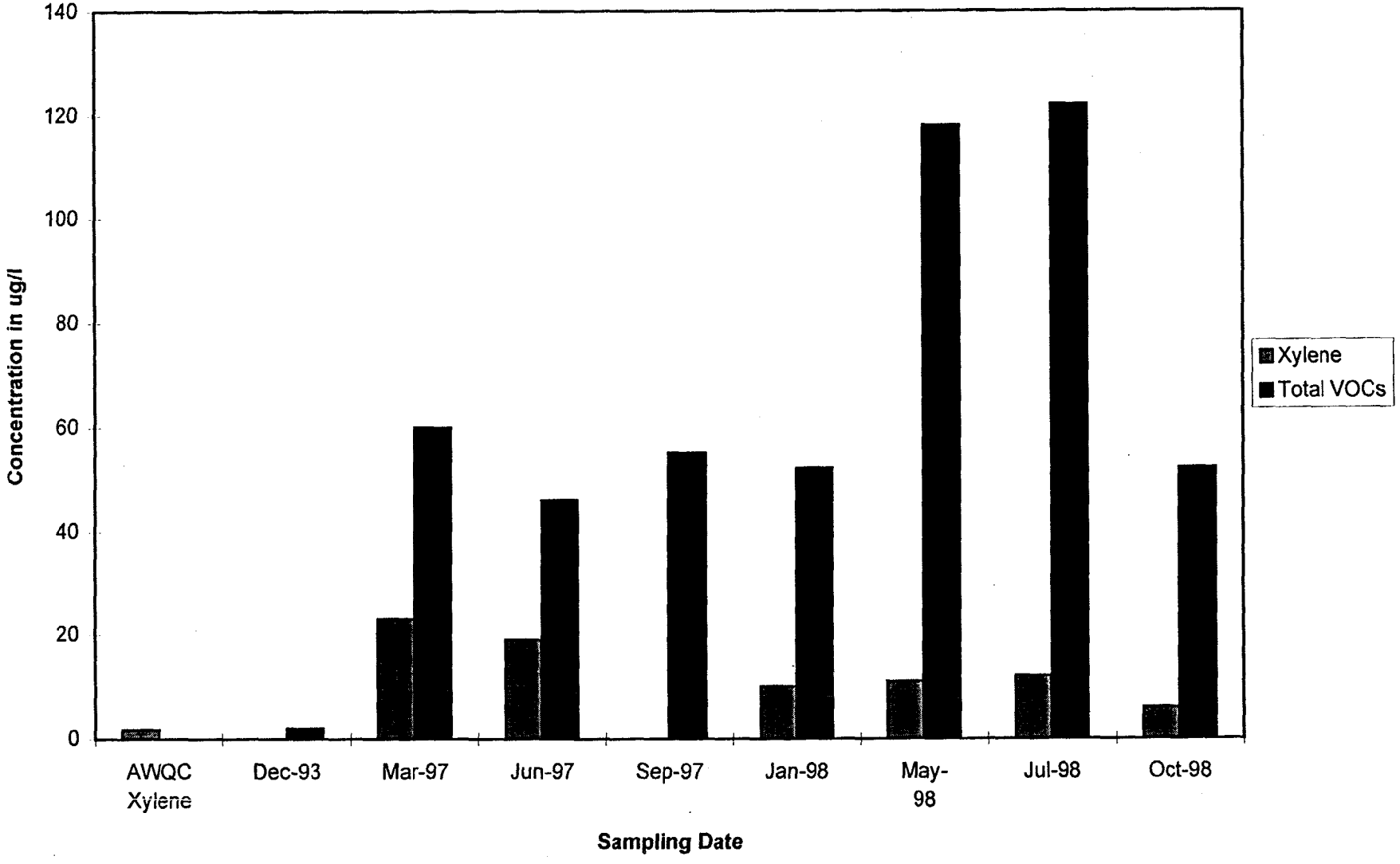


Figure A-2
MW-104S; Total Volatile Organic Compounds and Xylene

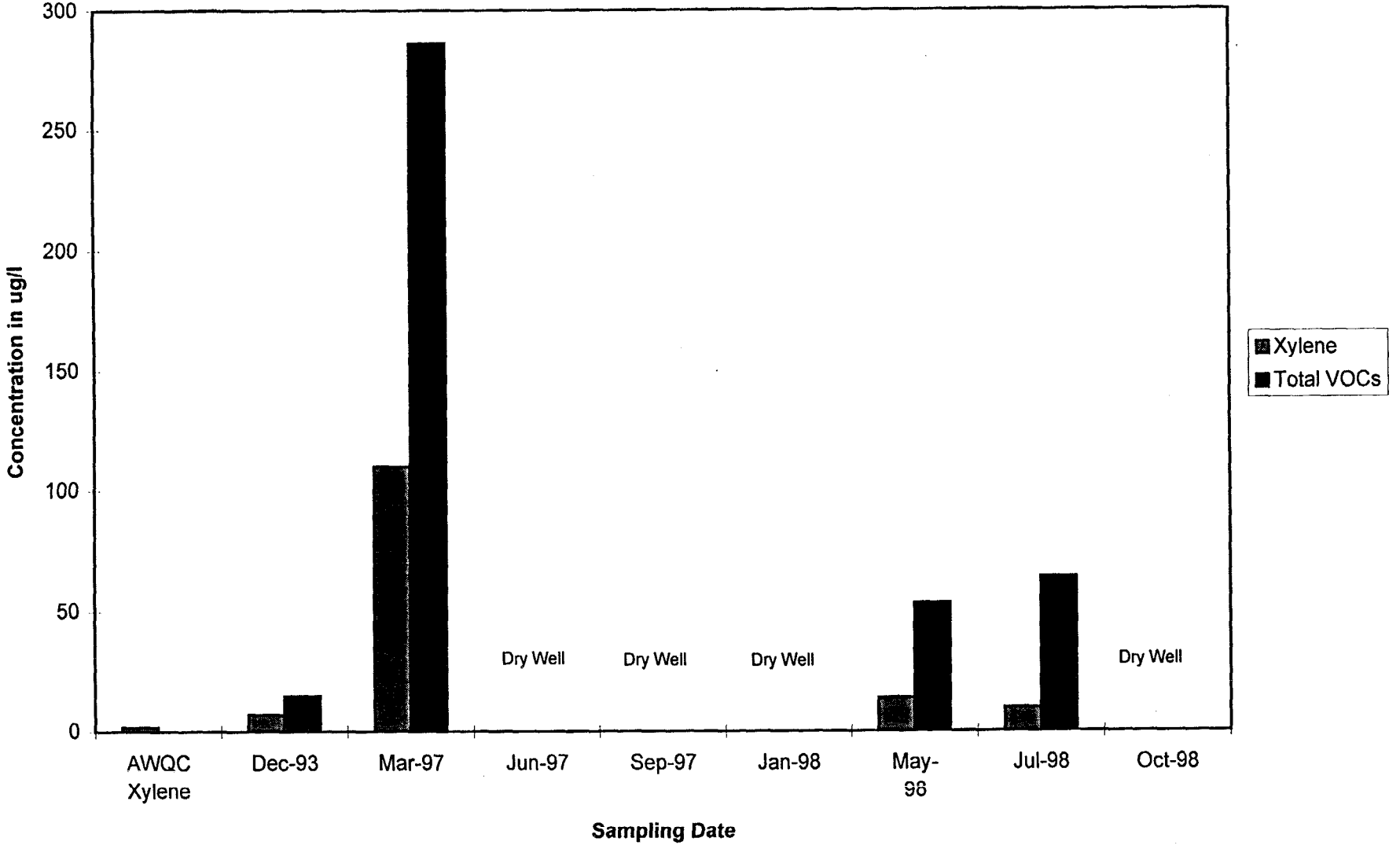


Figure A-3
MW-105S; Total Volatile Organic Compounds and Xylene

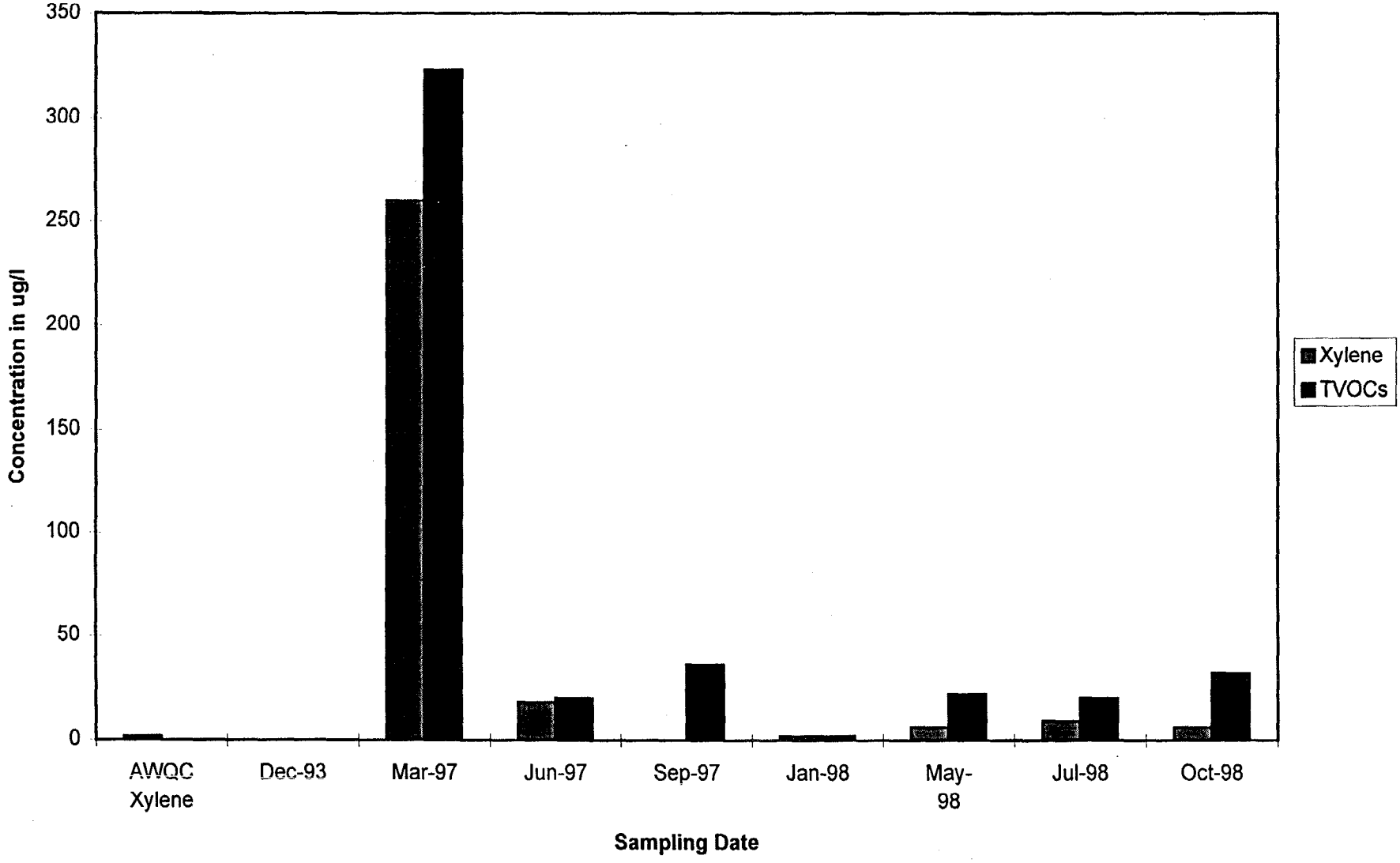


Figure A-4
MW-103S and MW-103R; Semivolatile Organic Compounds

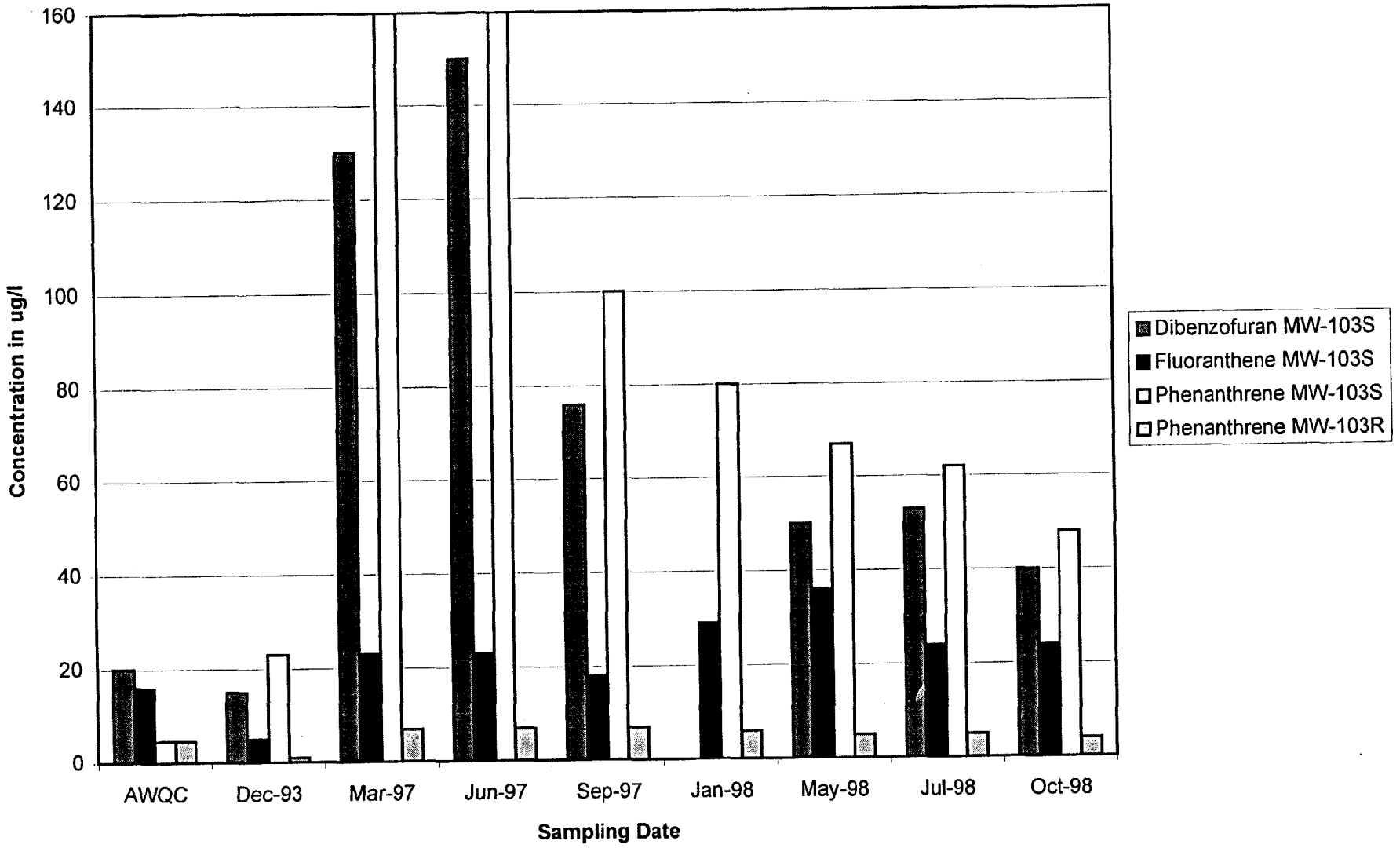


Figure A-5
MW-103S; Naphthalene

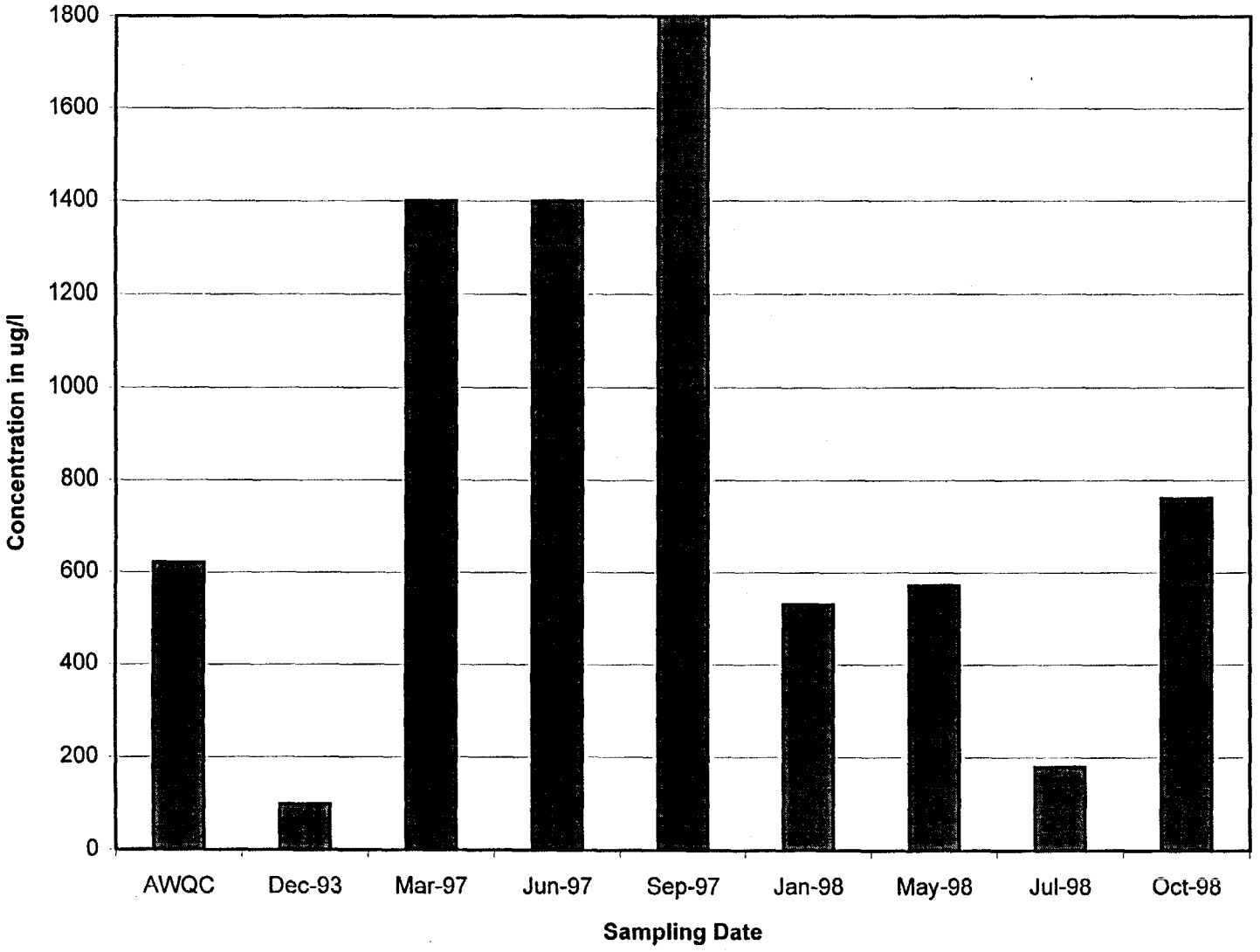


Figure A-6
Arsenic Concentrations

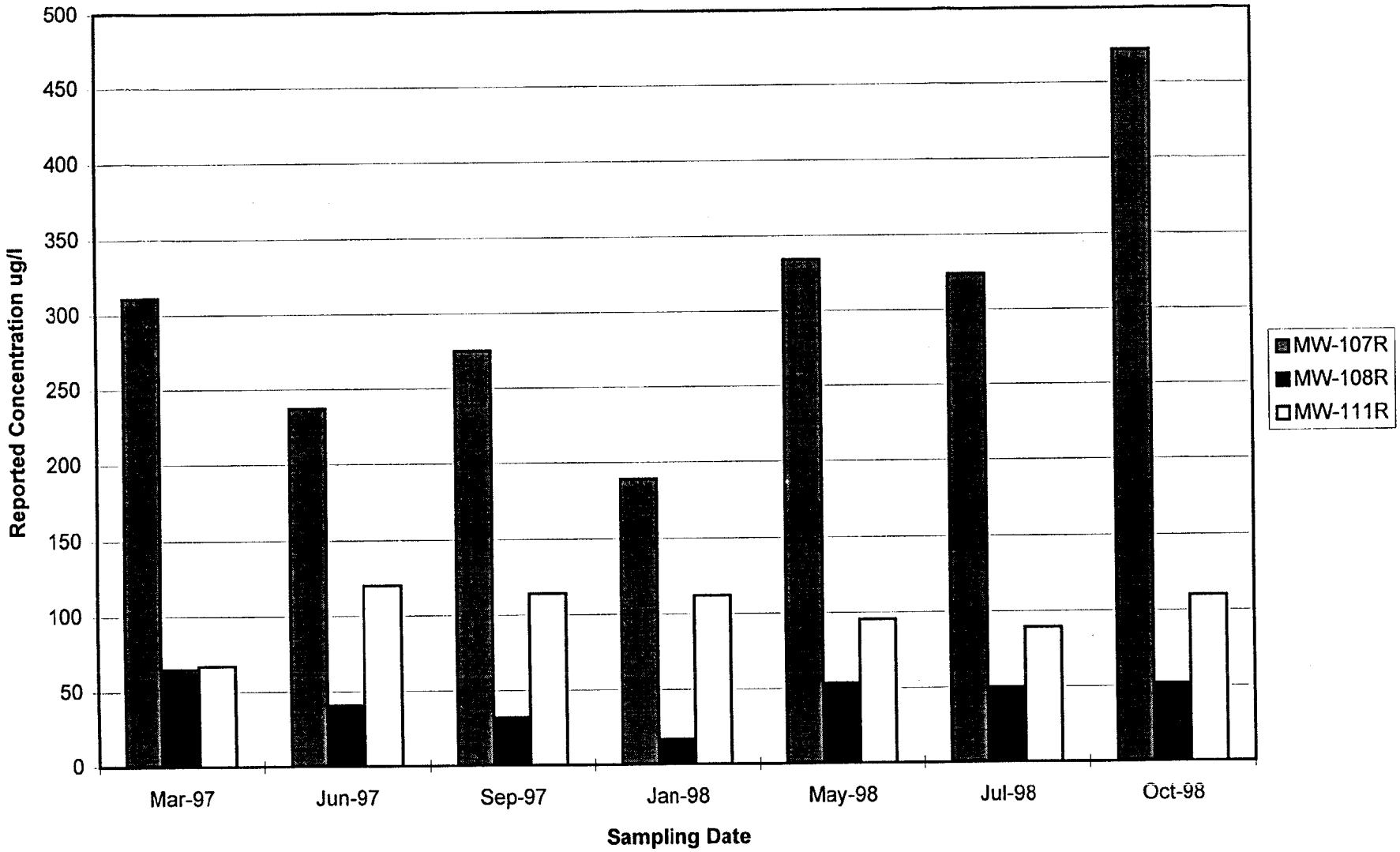


Figure A-7
Arsenic, Relative Concentrations

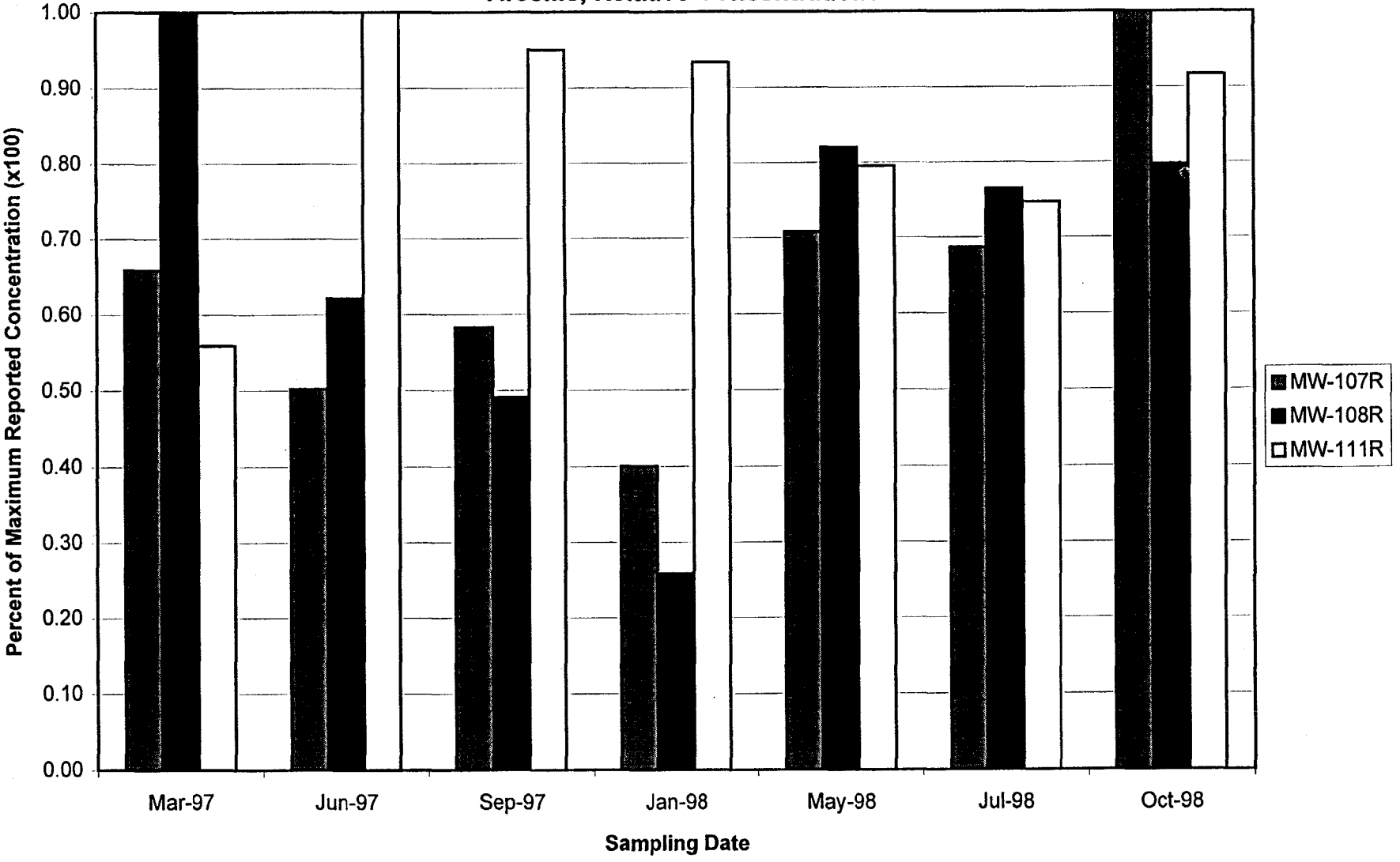


Figure A-8
Barium Concentrations

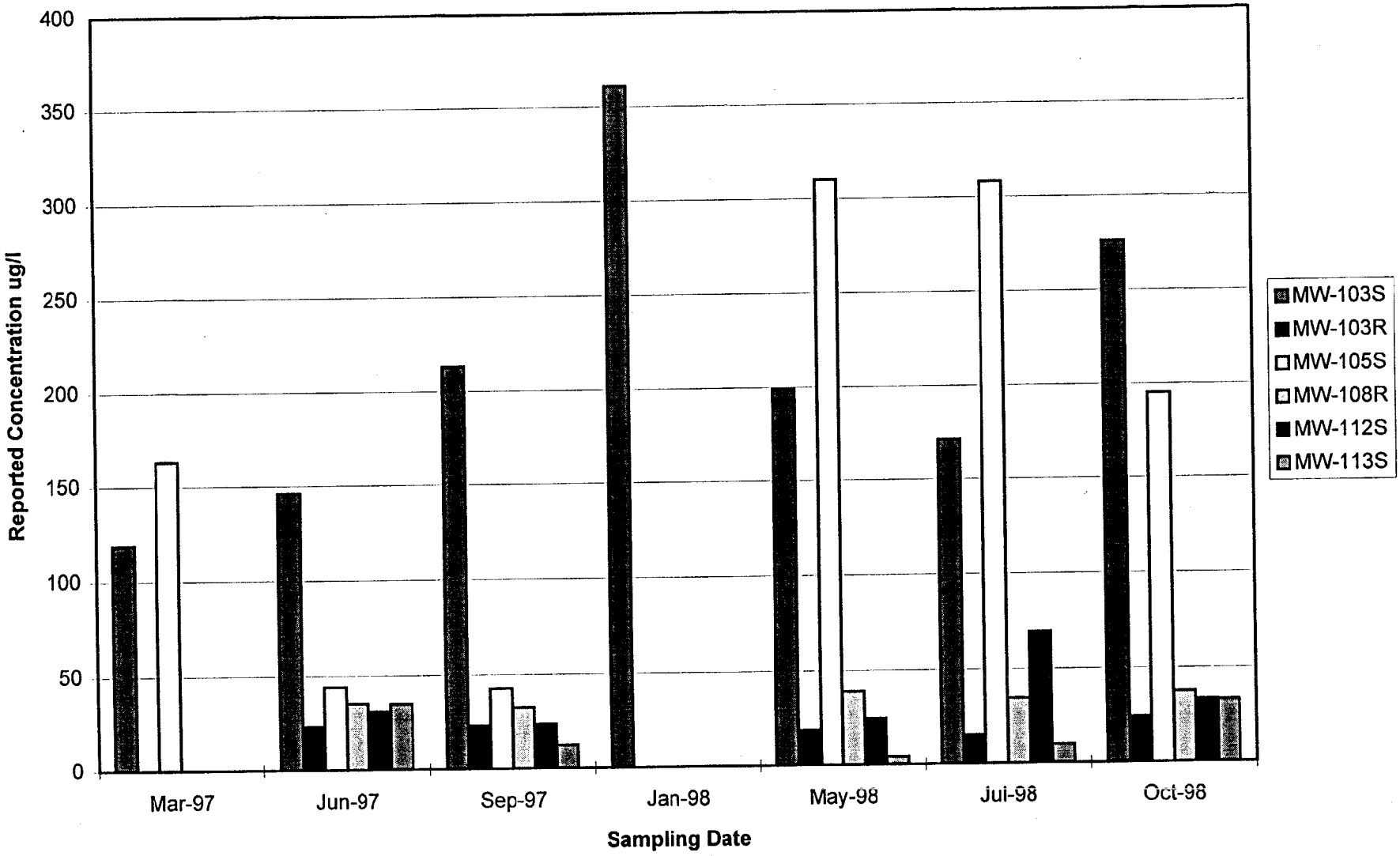


Figure A-9
Barium, Relative Concentrations

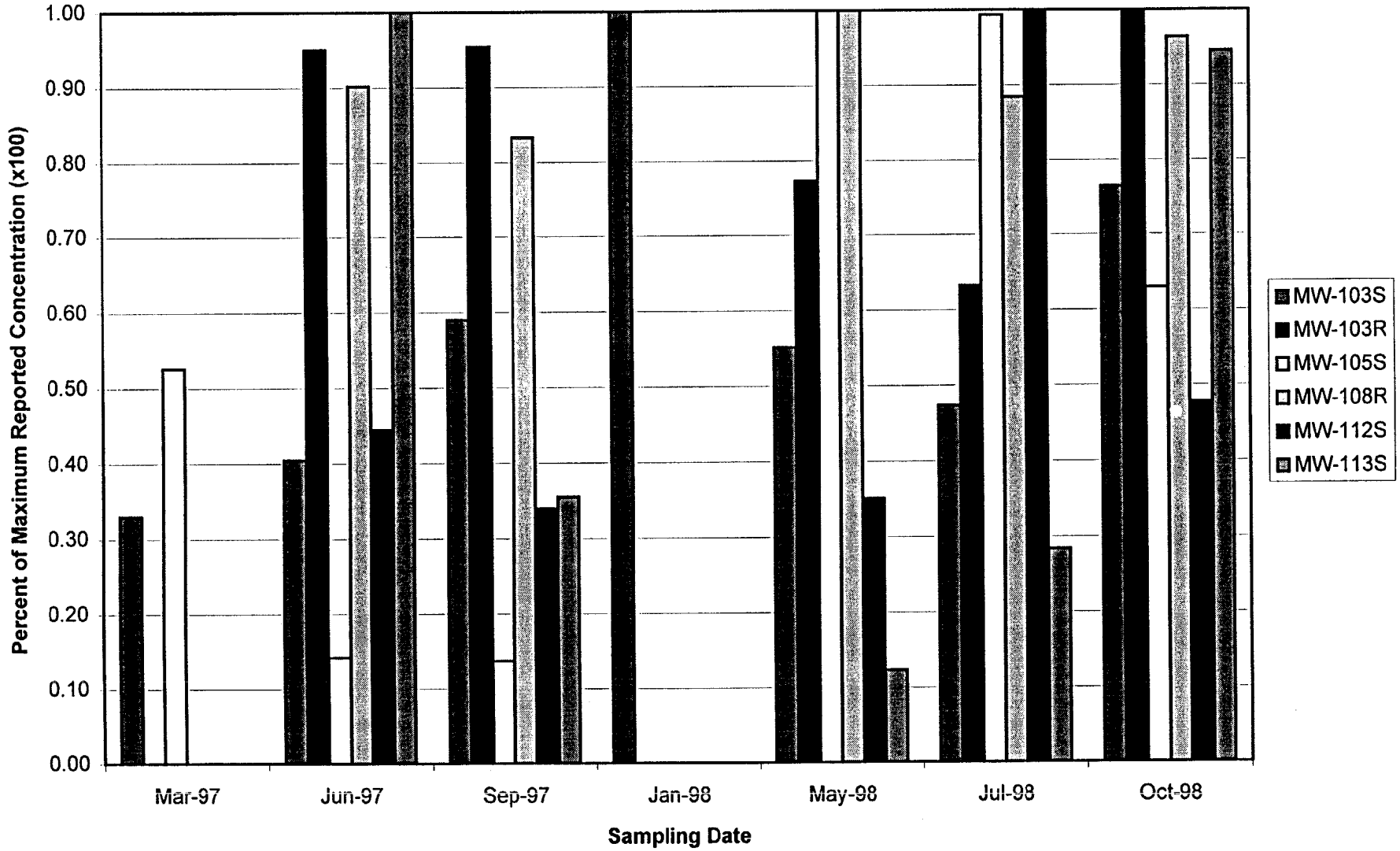


Figure A-10
Cobalt Concentrations

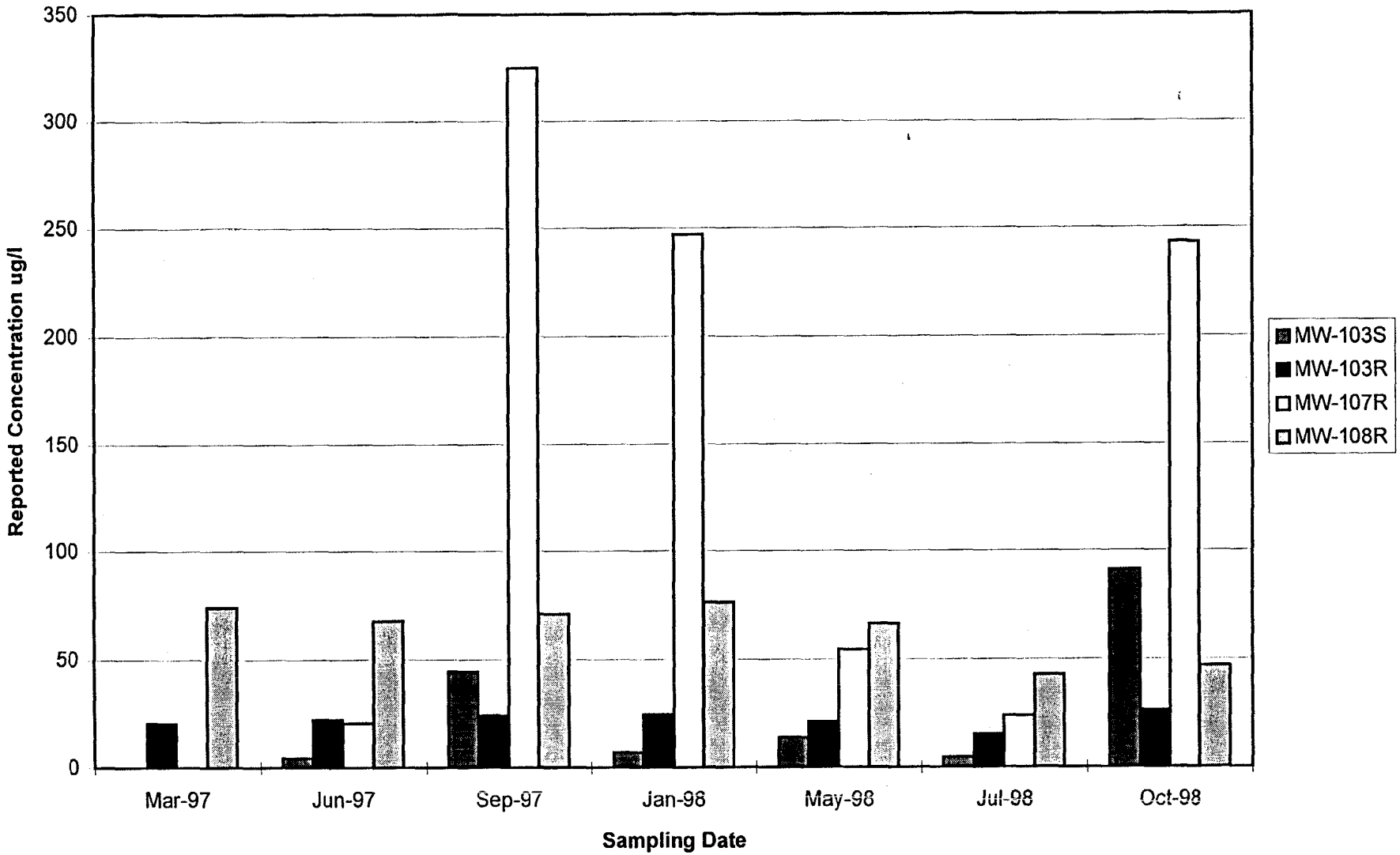


Figure A-11
Cobalt, Relative Concentrations

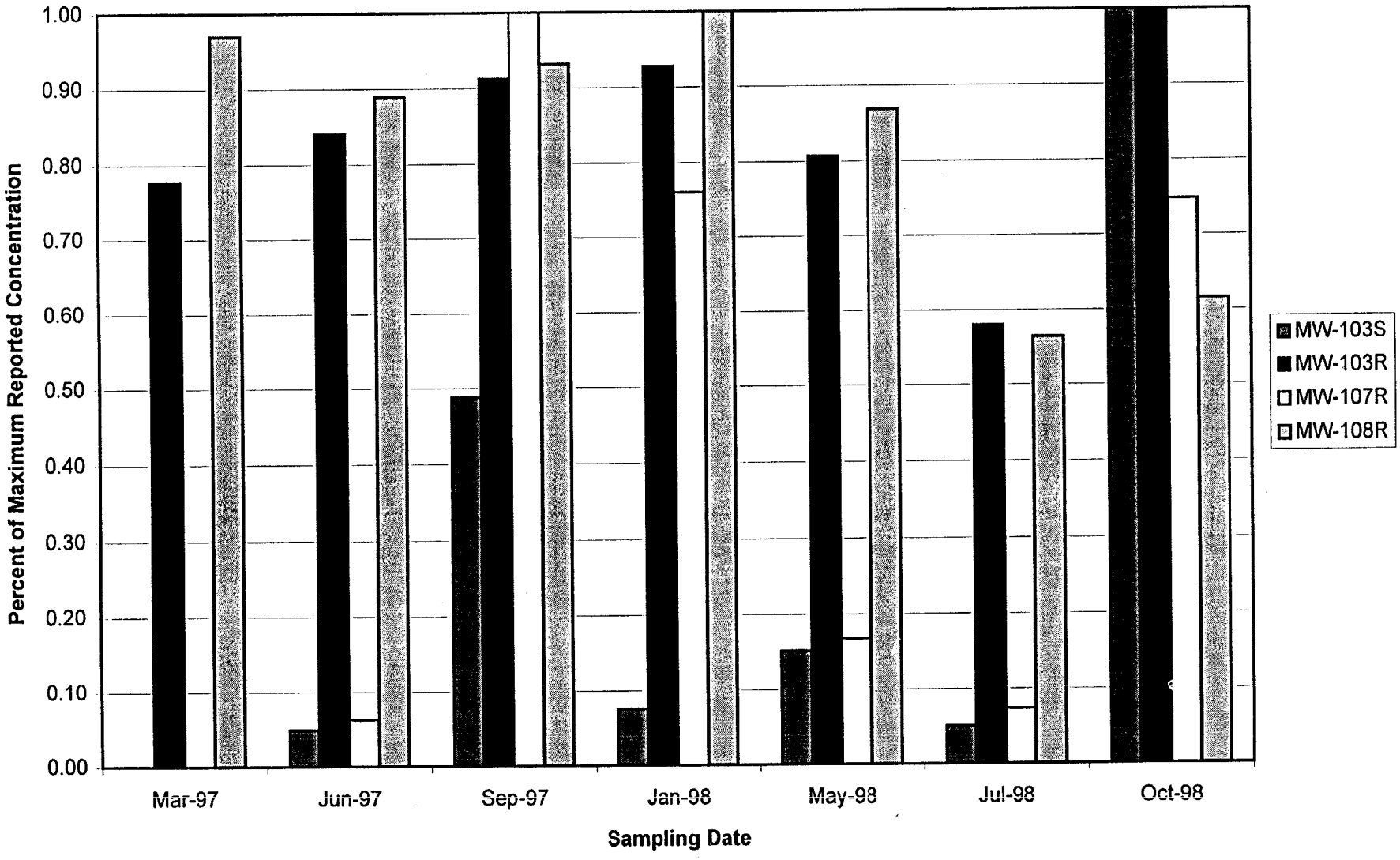


Figure A-12
Iron Concentrations

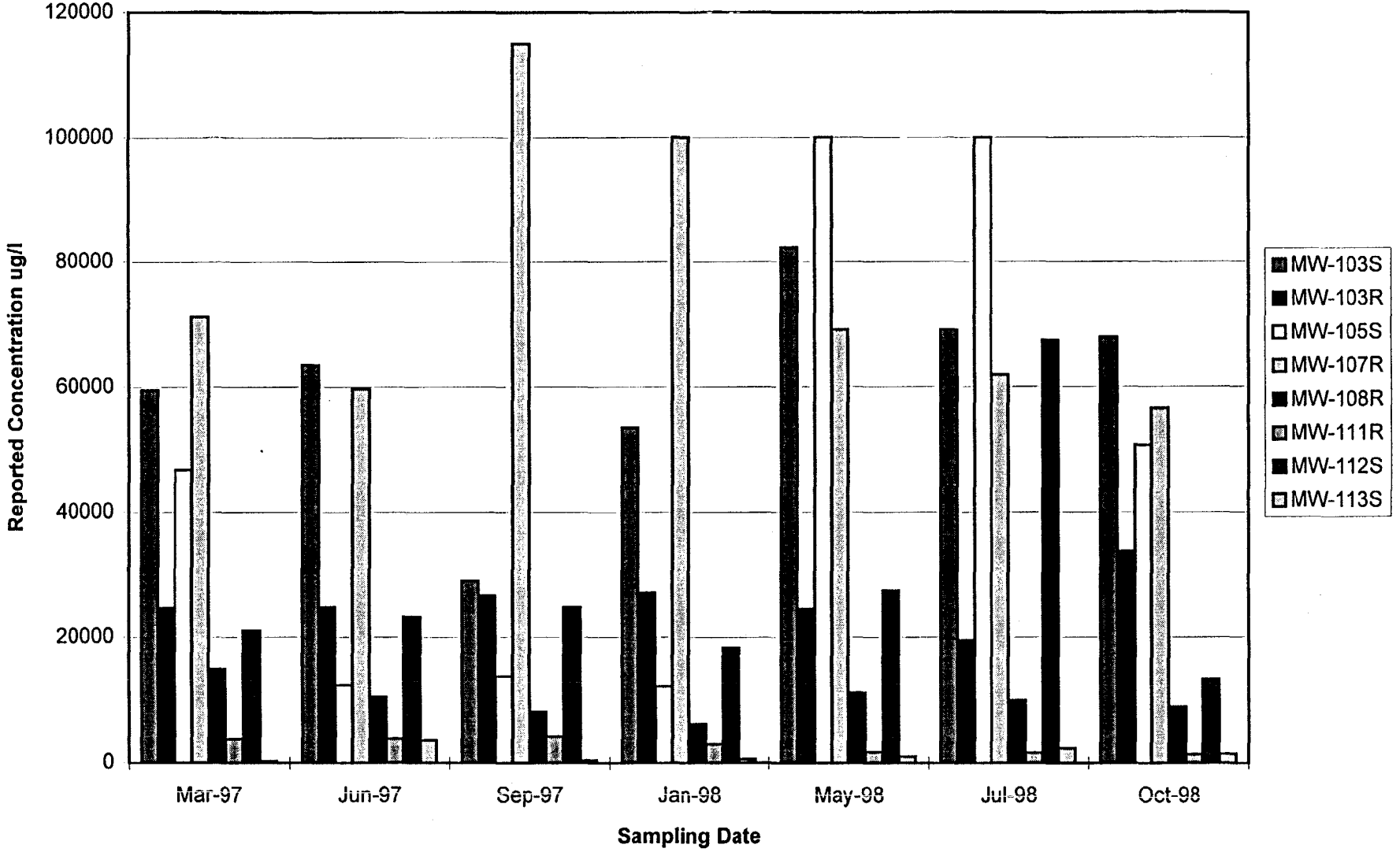


Figure A-13
Iron, Relative Concentrations

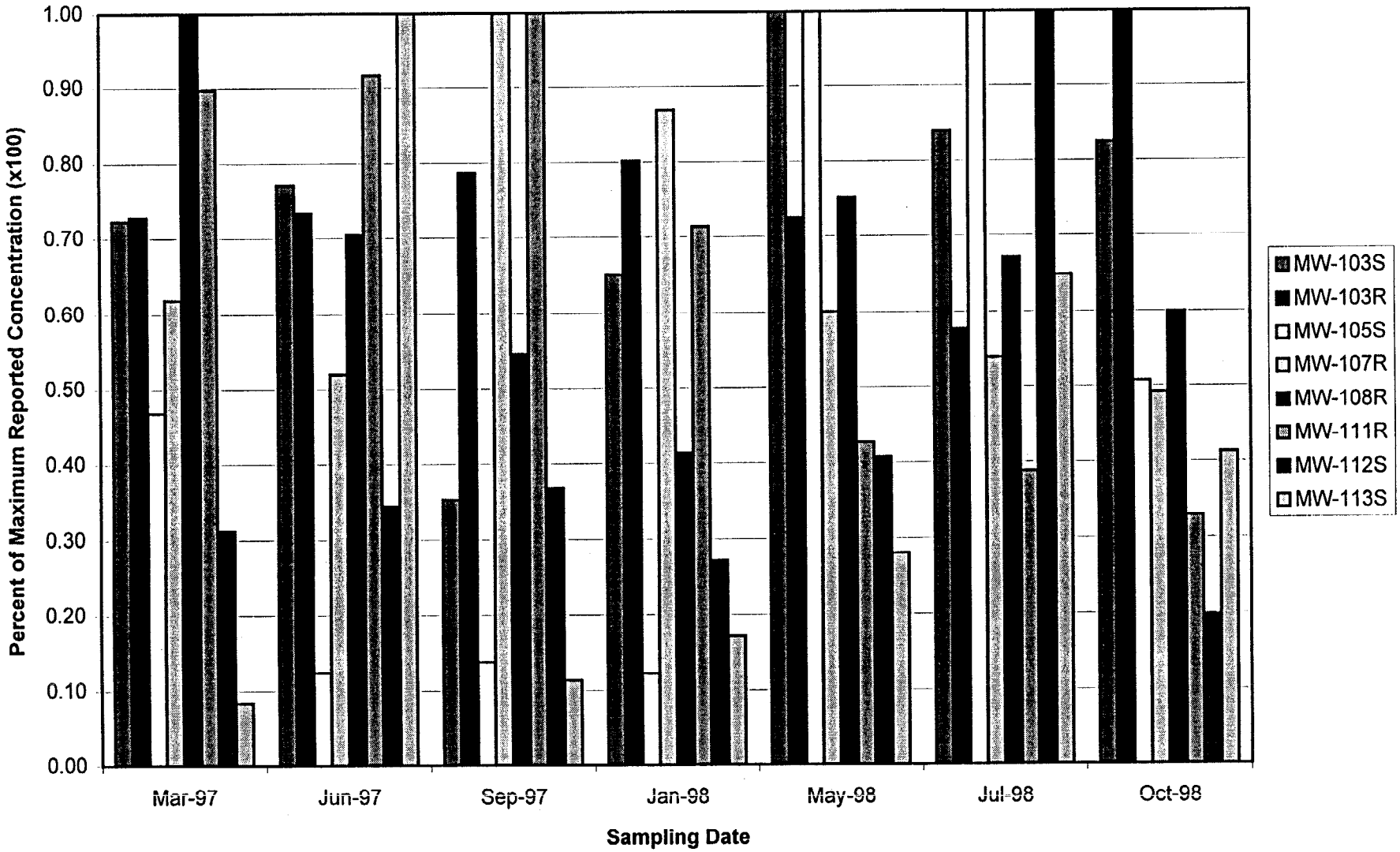


Figure A-14
Nickel Concentrations

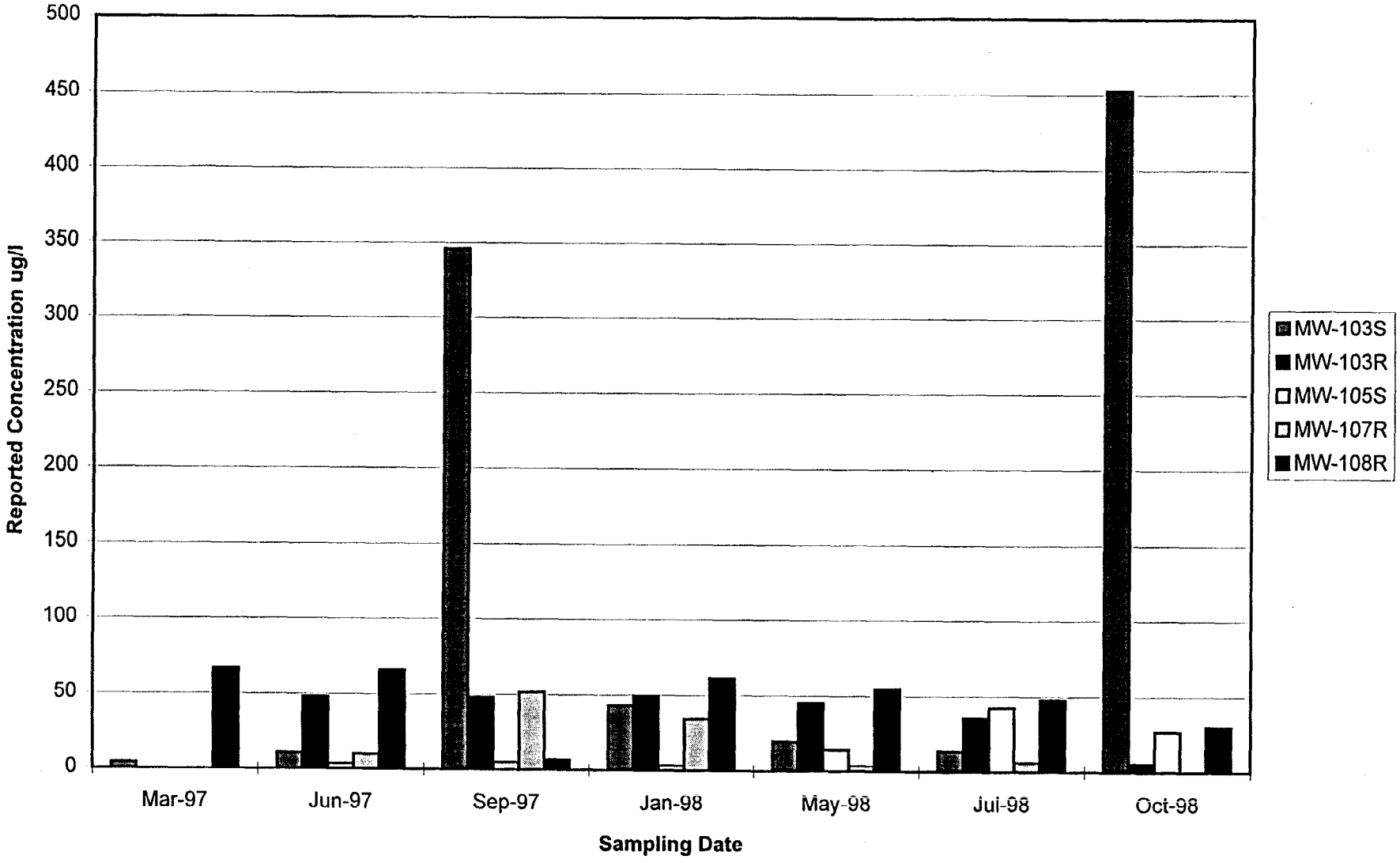


Figure A-15
Nickel, Relative Concentrations

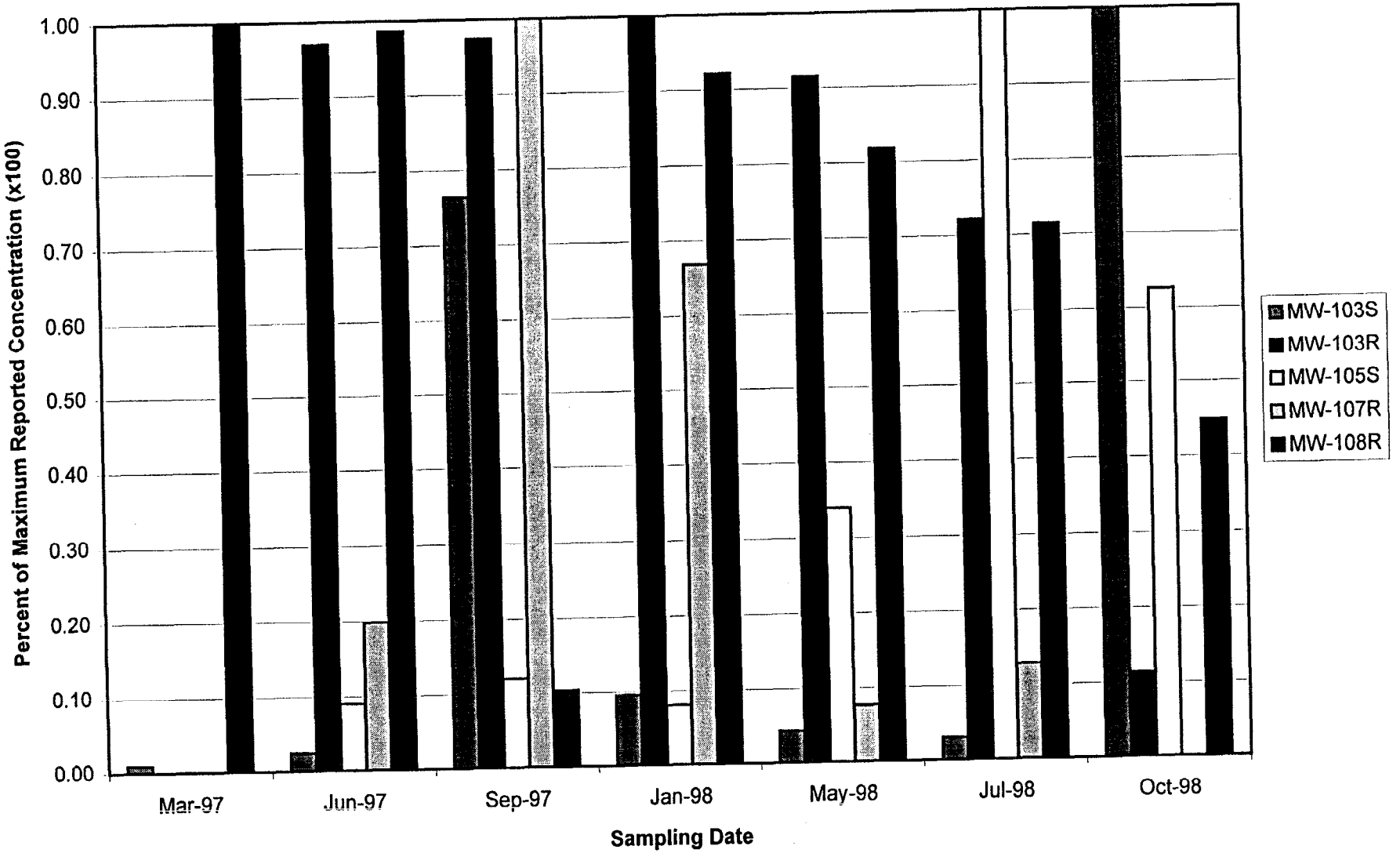
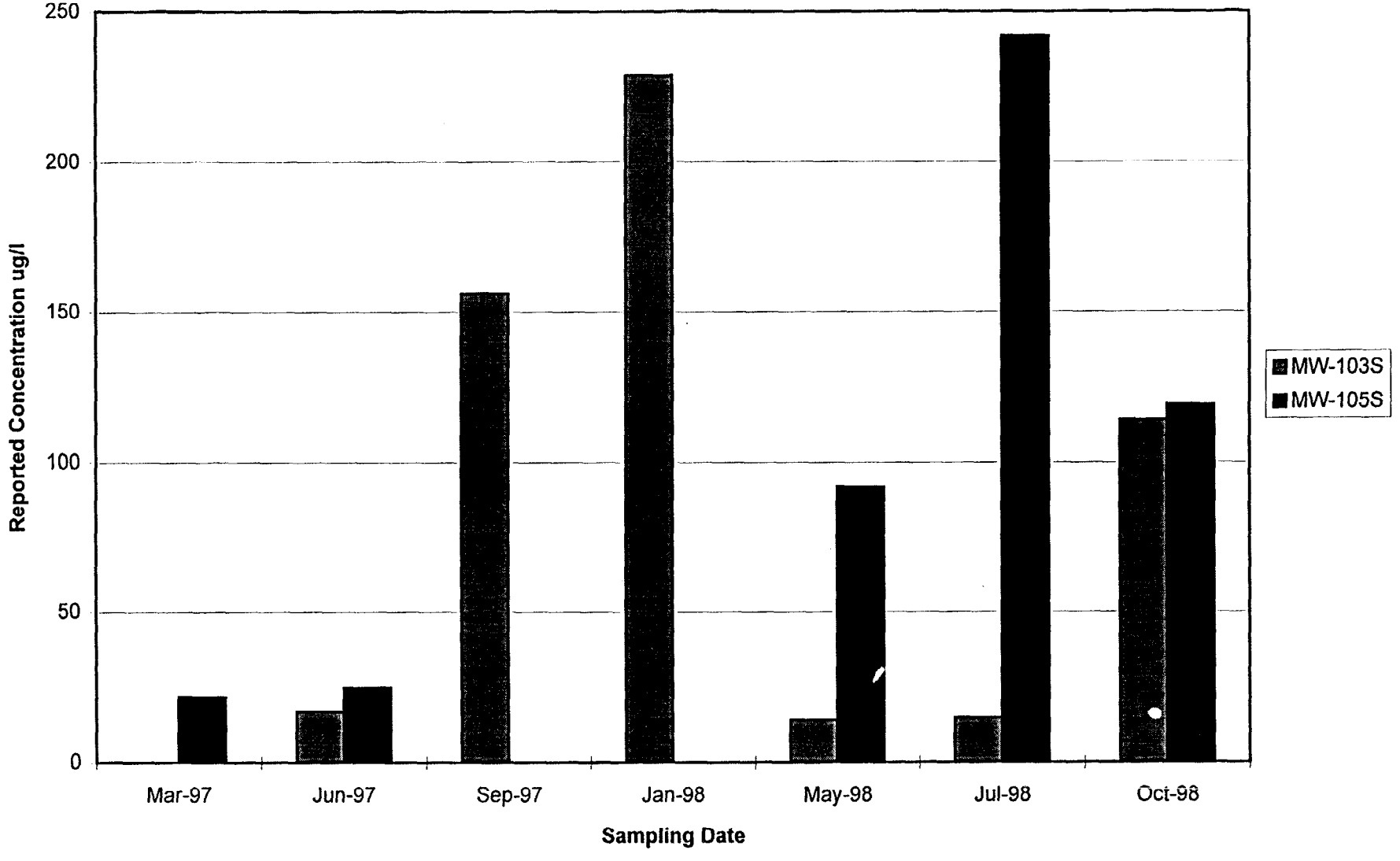


Figure A-16
Zinc Concentrations



APPENDIX B
GROUNDWATER ANALYTICAL RESULTS – SUMMARY TABLES FOR HISTORICAL RESULTS
TANK 53, TANK FARM 5, NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

(From "Technical Memorandum, Summary of Analytical Results – Sample Round 3" by Brown & Root Environmental Corporation, October 1997.)

APPENDIX B-1

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-2A

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
Acetone	-	-	10 U	10 U	26 U
Benzene	5	5	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	5 U	NA
Bromodichloromethane	100	-	5 U	5 U	5 U
Bromoform	100	-	5 U	5 U	5 UJ
Bromomethane	-	-	10 U	10 U	5 U
Butanone(2-)	-	-	10 U	10 U	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U
Chloroethane	-	-	10 U	10 U	5 U
Chloroform	100	-	5 U	5 U	5 U
Chloromethane	-	-	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	5 U	NA
Dibromochloromethane	-	-	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	5 U	5 U	1 J
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 U	10 UJ
Methylene Chloride	-	-	5 U	5 U	14 U
Styrene	100	100	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U
Trichloroethene	5	5	5 U	5 U	2 J
Vinyl Chloride	2	2	10 U	10 U	2 U
Vinylacetate	-	-	10 U	10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
1,2,4-Trichlorobenzene	70	70	10 U	10 U	5 U
1,2-Dichlorobenzene	600	600	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	50 U	50 U	10 UR
2,4-Dinitrotoluene	--	--	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	10 U	10 U	5 U
2-Chloronaphthalene	--	--	10 U	10 U	5 U
2-Chlorophenol	--	--	10 U	10 U	5 U
2-Methylnaphthalene	--	--	10 U	10 U	5 U
2-Methylphenol	--	--	10 U	10 U	5 U
2-Nitroaniline	--	--	50 U	50 U	10 U
2-Nitrophenol	--	--	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	20 U	5 U
3-Methylphenol	--	--	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	5 U
4-Chloroaniline	--	--	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	5 U
4-Methylphenol	--	--	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	50 U	50 U	10 U
4-Nitrophenol	--	--	50 U	50 U	10 U
Acenaphthene	--	--	10 U	10 U	5 U
Acenaphthylene	--	--	10 U	10 U	5 U
Anthracene	--	--	10 U	10 U	5 U
Benzo(a)anthracene	--	--	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	10 U	5
Butylbenzylphthalate	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
Carbazole	--	--	20R R	20 U	5 U
Chrysene	--	--	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	10 U	10 U	5 U
Di-n-octylphthalate	--	--	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	5 U
Dibenzofuran	--	--	10 U	10 U	5 U
Diethylphthalate	--	--	10 U	10 U	5 U
Dimethylphthalate	--	--	10 U	10 U	5 U
Fluoranthene	--	--	10 U	10 U	5 U
Fluorene	--	--	10 U	10 U	5 U
Hexachlorobenzene	1	1	10 U	10 U	5 U
Hexachlorobutadiene	--	--	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	5 U
Hexachloroethane	--	--	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	5 U
Isophorone	--	--	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	5 U
Naphthalene	--	20	10 U	10 U	5 U
Nitrobenzene	--	--	10 U	10 U	5 U
Pentachlorophenol	1	1	50 U	50 U	10 U
Phenanthrene	--	--	10 U	10 U	5 U
Phenol	--	--	10 U	10 U	5 U
Pyrene	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/96	8/12/97
4,4'-DDD	--	--	.1 U	0.1 U	0.05 U
4,4'-DDE	--	--	.1 U	0.1 U	0.05 U
4,4'-DDT	--	--	.1 U	0.1 U	0.05 U
Aldrin	--	--	0.05 U	0.05 U	0.025 U
alpha-BHC	--	--	0.05 U	0.05 U	0.025 U
alpha-Chlordane	2	2	0.05 U	0.05 U	0.025 U
beta-BHC	--	--	0.05 U	0.05 U	0.025 U
delta-BHC	--	--	0.05 U	0.05 U	0.025 U
Dieldrin	--	--	.1 U	0.1 U	0.05 U
Endosulfan I	--	--	0.05 UJ	0.05 U	0.025 U
Endosulfan II	--	--	.1 U	0.1 U	0.05 U
Endosulfan Sulfate	--	--	.1 U	0.1 U	0.05 U
Endrin	2	--	.1 U	0.1 U	0.05 U
Endrin Aldehyde	--	--	.01 U	0.01 U	0.05 U
Endrin Ketone	--	--	.1 U	0.1 U	0.05 U
gamma-BHC	--	--	.05 U	0.05 U	0.025 U
gamma-Chlordane	2	2	.05 U	0.05 U	0.025 U
Heptachlor	0.4	--	.05 U	0.05 U	0.025 U
Heptachlor Epoxide	0.2	--	.05 U	0.05 U	0.025 U
Methoxychlor	40	--	.5 U	0.5 U	0.25 U
Toxaphene	3	--	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	1 U	0.5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Click here to go to Appendix B2

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/19/96 Filt	12/19/96 Total	3/24/97 Filt	3/24/97 Total	8/14/97 Total	8/14/97 Filt
ALUMINUM	-	-	0.1 U	2.4	0.1 U	15 J	2.24	0.0452 U
ANTIMONY	0.006	0.006	0.02 U	0.02 U	0.02 U	0.02 U	0.002 U	0.002 U
ARSENIC	0.05	-	0.004 U	0.018	0.004 UJ	0.032 J	0.0054 J	0.0032 U
BARIUM	2	2	0.01 U	0.01	0.01 U	0.08 J	0.0177 U	0.0045 U
BERYLLIUM	0.004	0.004	0.01 U	0.01 U	0.01 U	0.01 U	0.0003 U	0.00078 U
CADMIUM	0.005	0.005	0.01 U	0.01 U	0.01 U	0.01 U	0.0005 U	0.0005 U
CALCIUM	-	-	9.9	11	11	14	11.4	11.6
CHROMIUM	0.1	0.1	0.02 U	0.02 U	0.02 U	0.05	0.0065 UJ	0.0065 UJ
COBALT	-	-	0.02 U	0.03	0.02 U	0.03	0.0133 U	0.007 U
COPPER	1.3	-	0.02 U	0.02 U	0.02 U	0.03	0.0038 UJ	0.0038 UJ
IRON	-	-	0.04 U	7.9	0.04 U	52 J	7.130 J	0.0071 UJ
LEAD	0.015	0.015	0.005 U	0.008	0.005 U	0.017	0.0033 U	0.0016 U
MAGNESIUM	-	-	13	12	13	16	14.9	15.2
MANGANESE	-	-	0.04	0.23	0.05 J	0.27	0.1	0.162
MERCURY	0.002	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00013 U	0.00013 U
NICKEL	0.14	0.1	0.04 U	0.04 U	0.04 U	0.07 J	0.0079 UJ	0.0079 UJ
POTASSIUM	-	-	1	1	1	4	1.5	1.32
SELENIUM	0.05	0.05	0.004 U	0.004 U	0.004 UJ	0.004 UJ	0.0034 U	0.0034 U
SILVER	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0016 U	0.0017 U
SODIUM	-	-	5.9	6	7.5	10	9.64	10.3
THALLIUM	0.002	0.002	0.005 U	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U
VANADIUM	-	-	0.01 U	0.01 U	0.01 U	0.03	0.006 J	0.0053 U
ZINC	-	-	0.03	0.07	0.02	0.16 J	0.0352 U	0.0112 U

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/14/97
TPH	-	-	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation