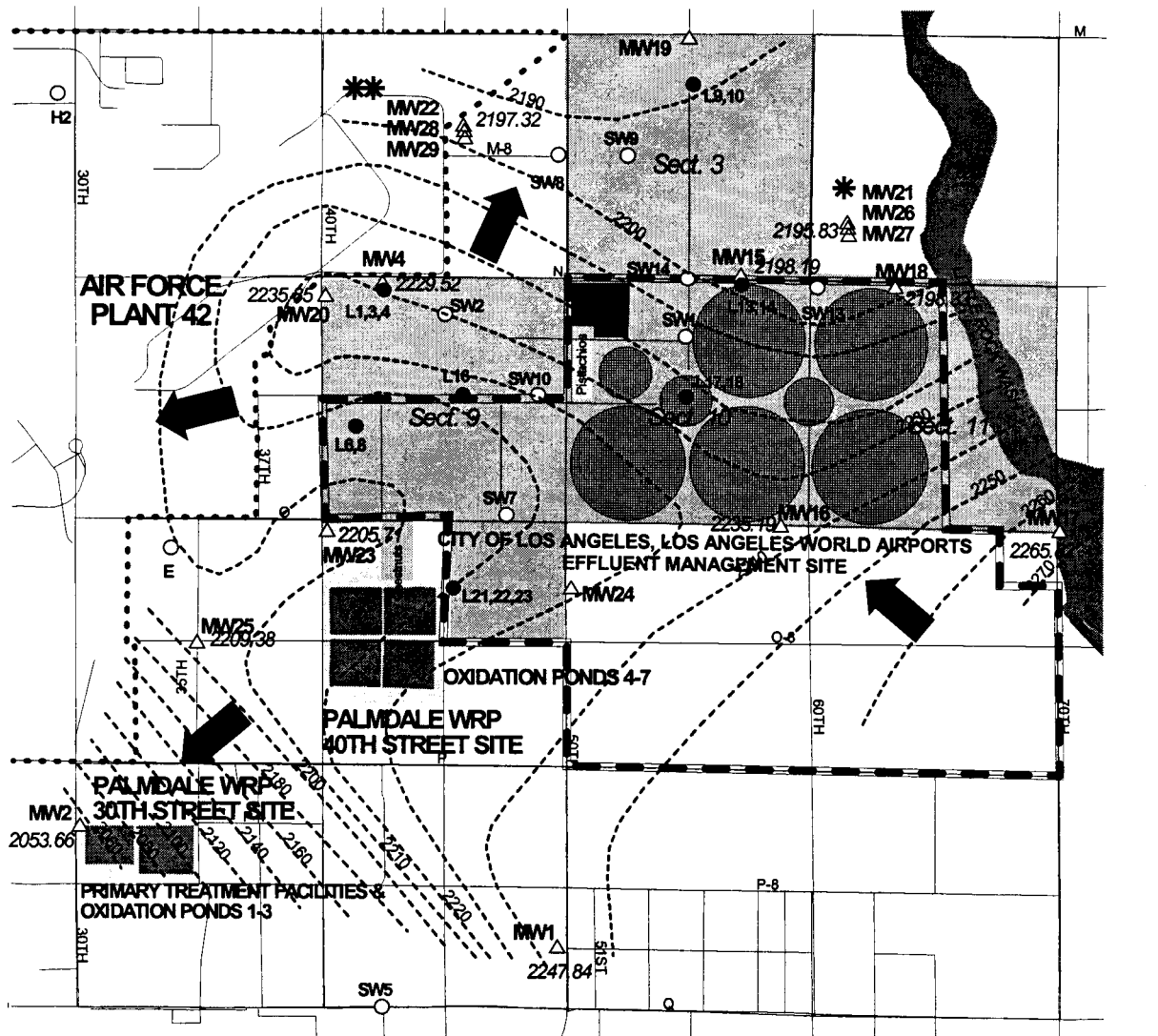


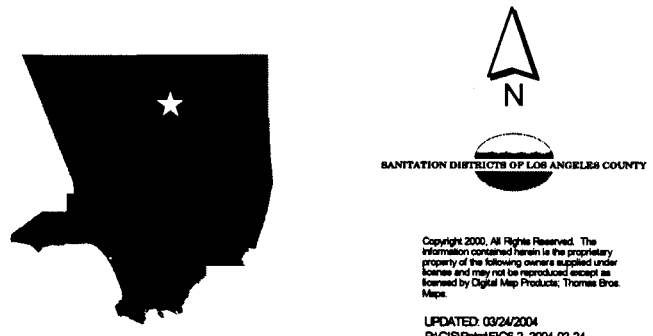
FIGURE 6-2 PALMDALE WATER RECLAMATION PLANT GROUNDWATER ELEVATION CONTOURS (2003 ANNUAL REPORT)



* MW21 - Shallow MW26 - Medium MW27 - Deep	** MW22 - Shallow MW28 - Medium MW29 - Deep
--	---

0.6 0 0.6 1.2 Miles

- ← DIRECTION OF GROUNDWATER FLOW
- SUPPLY WELL
- △ MONITORING WELL
- LYSIMETER
- PREVIOUS EFFLUENT SPREADING/REUSE AREA
- CENTER PIVOTS - FODDER CROPS
- ▨ NEW LEASED AREA
- ⬢ AIR FORCE PLANT 42
- ⋯ GROUNDWATER ELEVATION CONTOURS FOR SUMMER 2003 (FEET ABOVE SEA LEVEL)



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UPDATED: 03/24/2004
P:\GIS\Palmdale\FIG6-2_2004-03-24

FIGURE 6.3
Palmdale Water Reclamation Plant SW1
Chloride and TDS

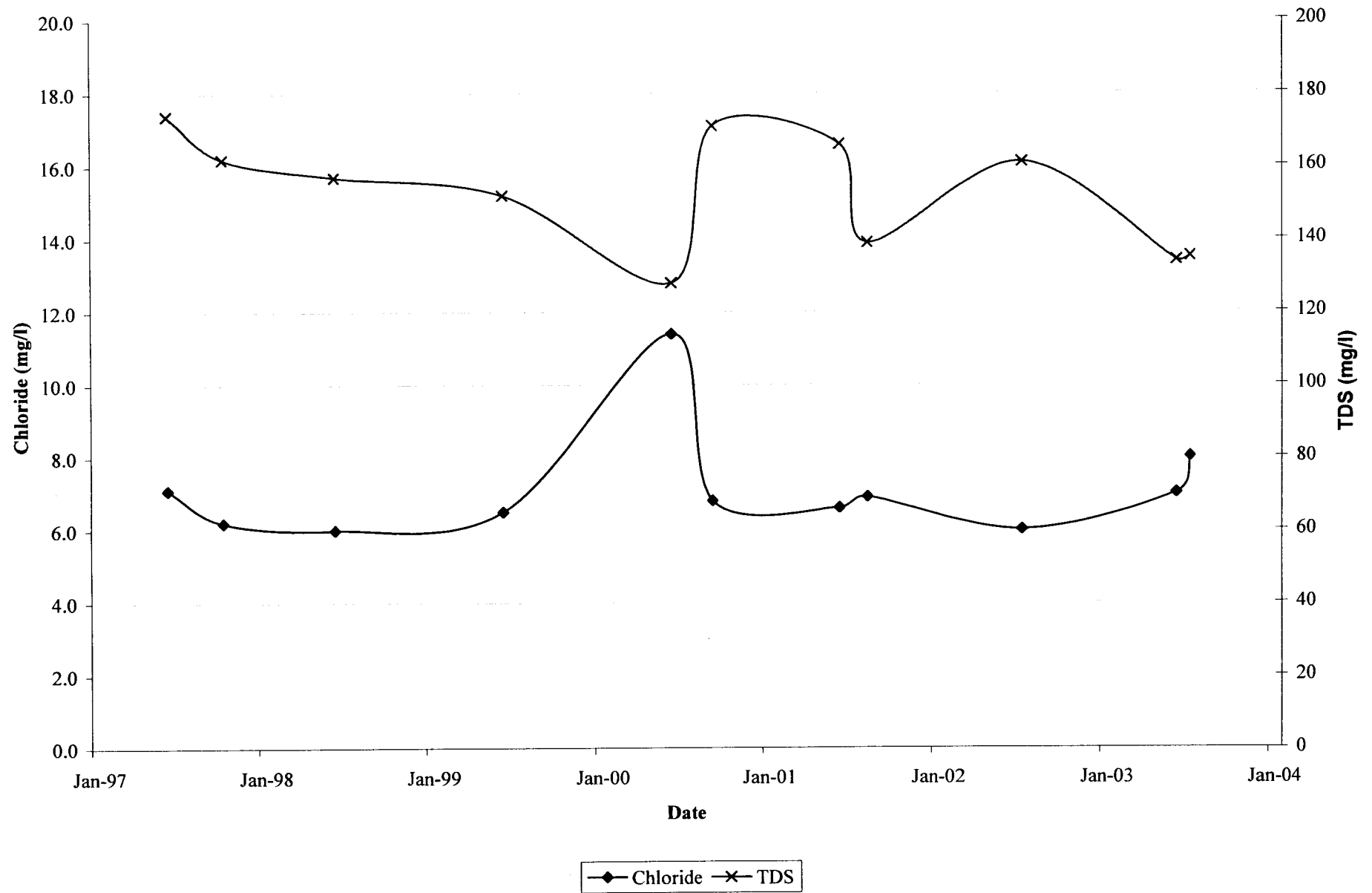


FIGURE 6.4
Palmdale Water Reclamation Plant SW1
MBAS NH_3 , TKN NO_3^-

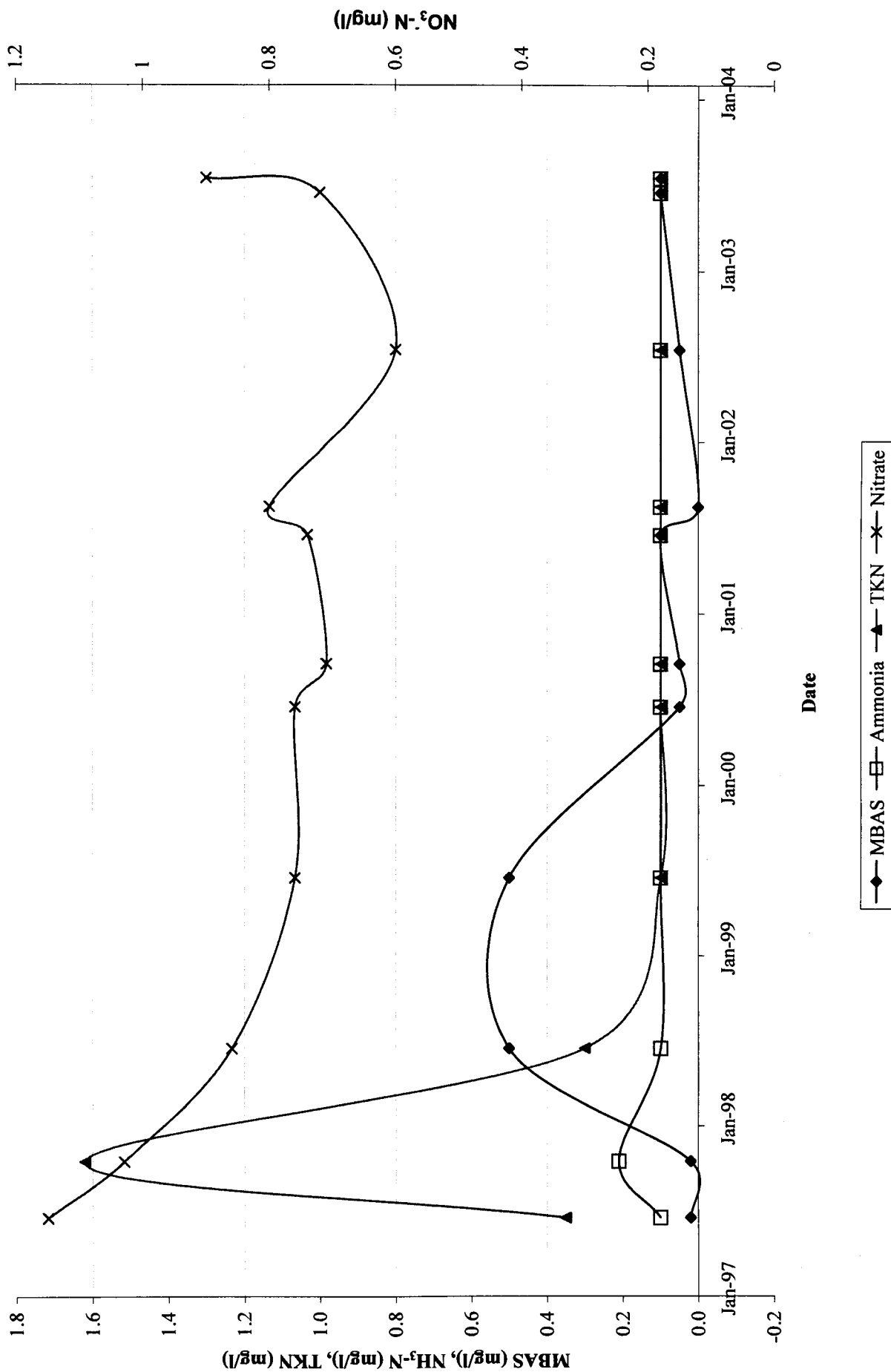


FIGURE 6.5
Palmdale Water Reclamation Plant SW2
Chloride and TDS

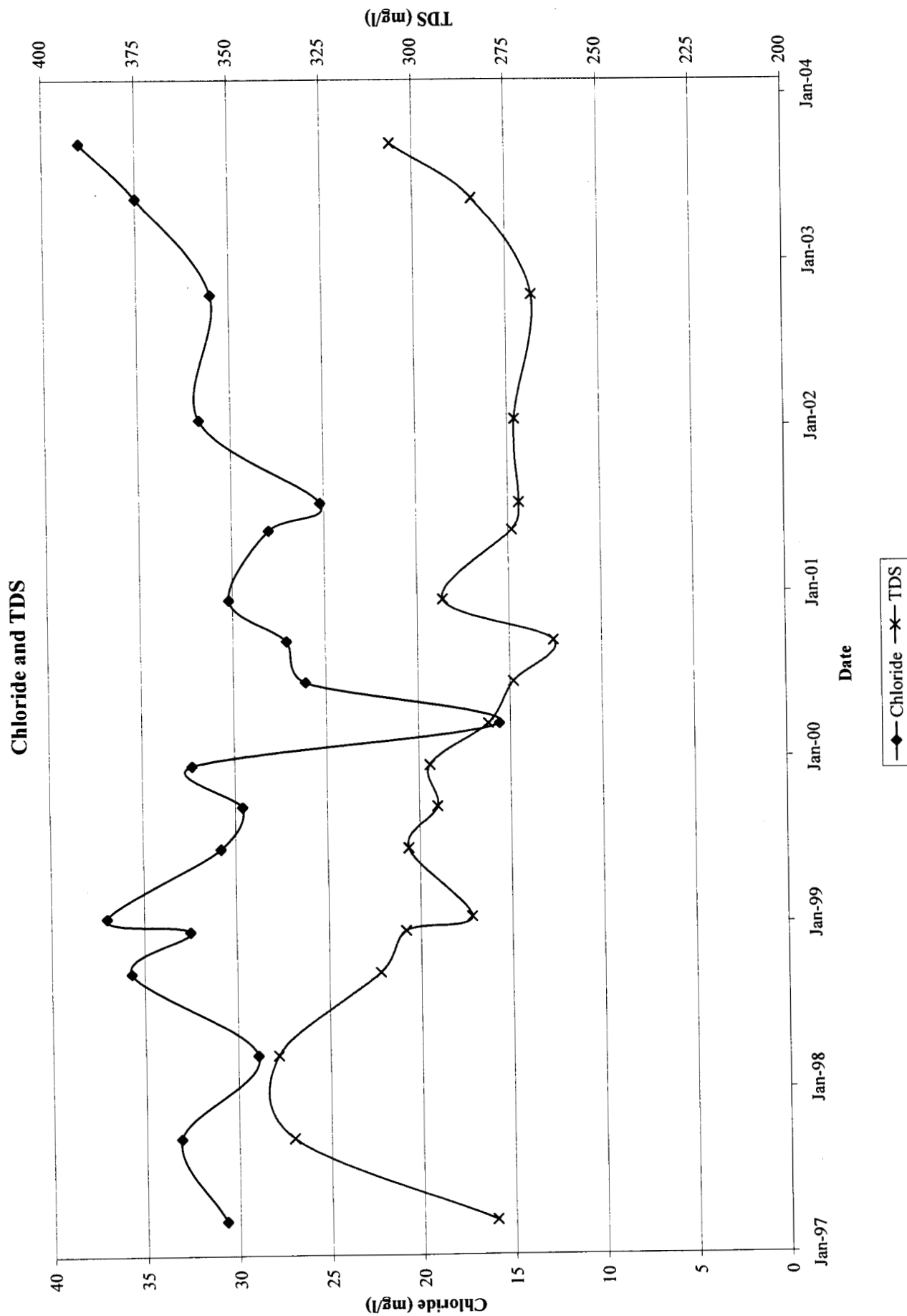


FIGURE 6.6

Palmdale Water Reclamation Plant SW2

MBAS, NH₃, TKN, NO₃⁻

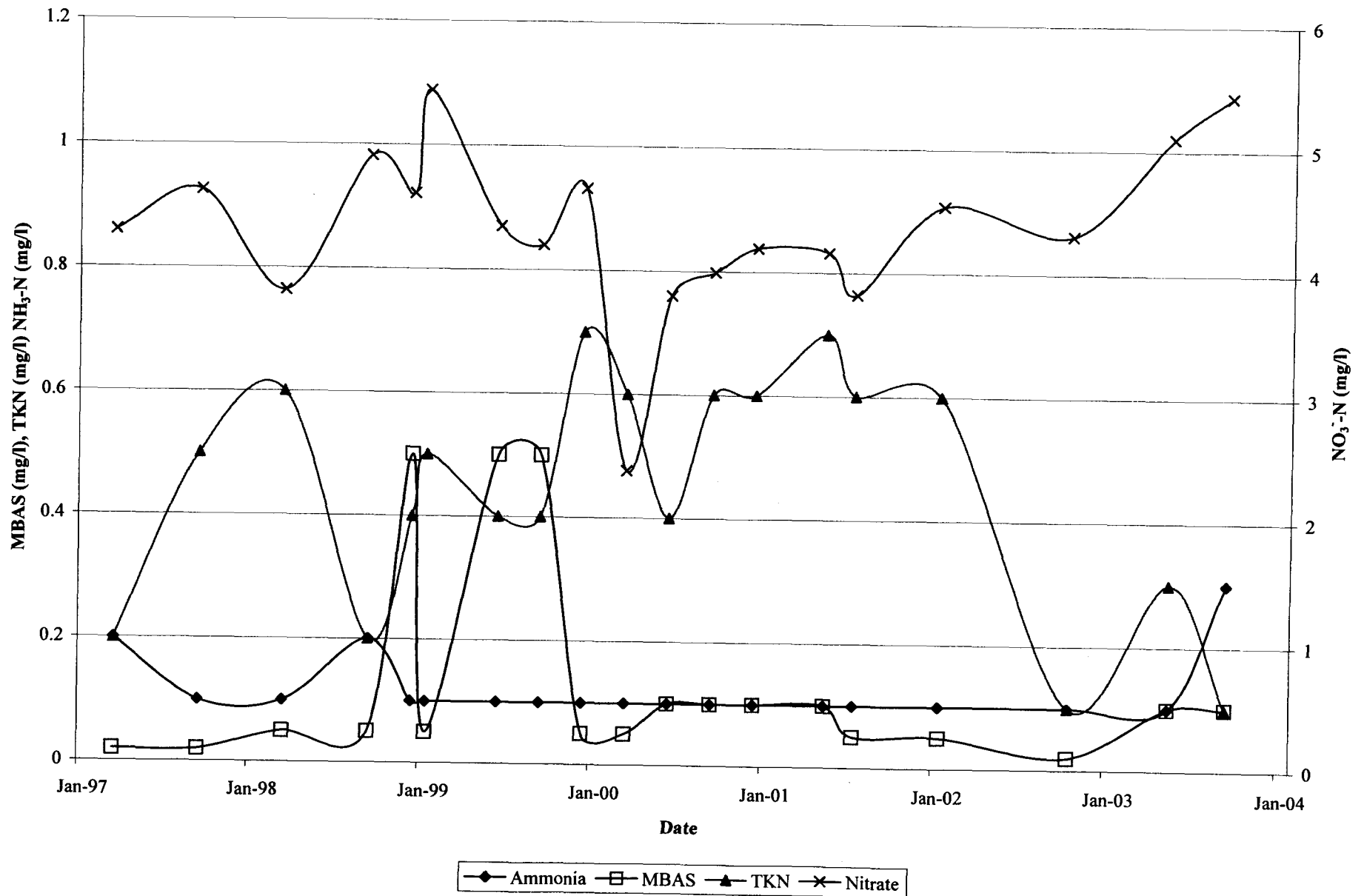


FIGURE 6.7
Palmdale Water Reclamation Plant, SW 5
Chloride and TDS

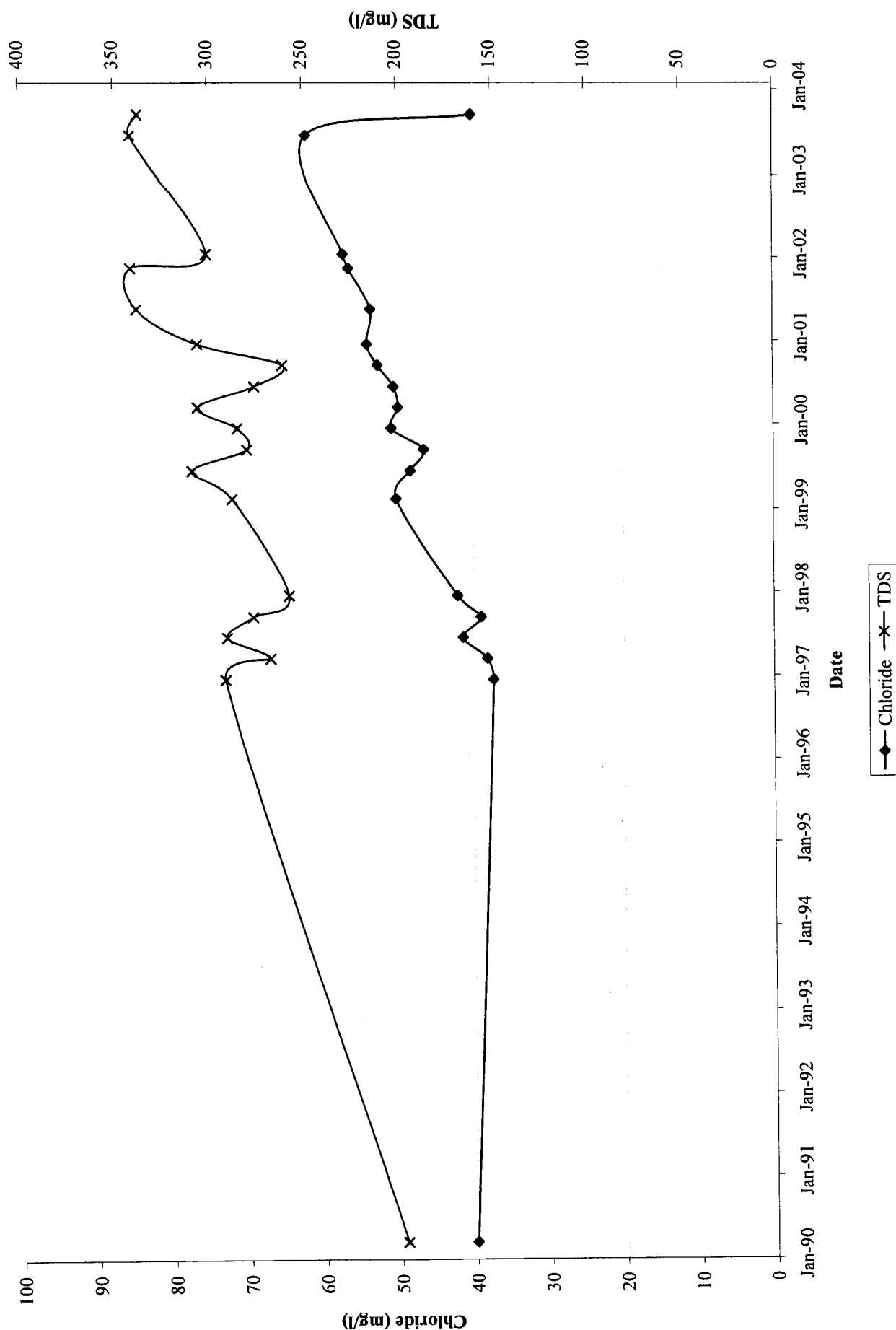


FIGURE 6.8
Palmdale Water Reclamation Plant, SW 5
MBAS, NH_3 , TKN, NO_3^-

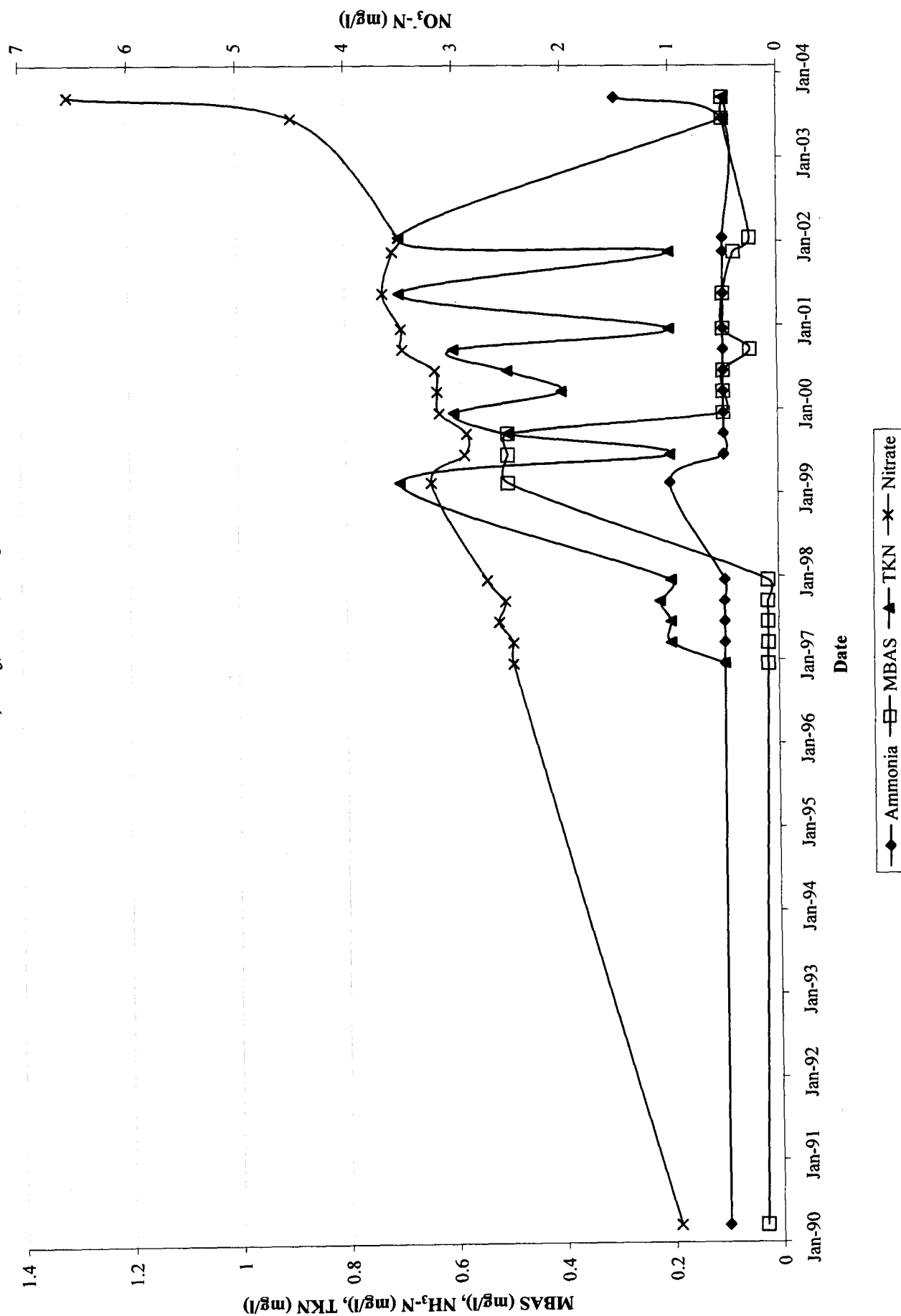


FIGURE 6.9
Palmdale Water Reclamation Plant, SW 7
Chloride and TDS

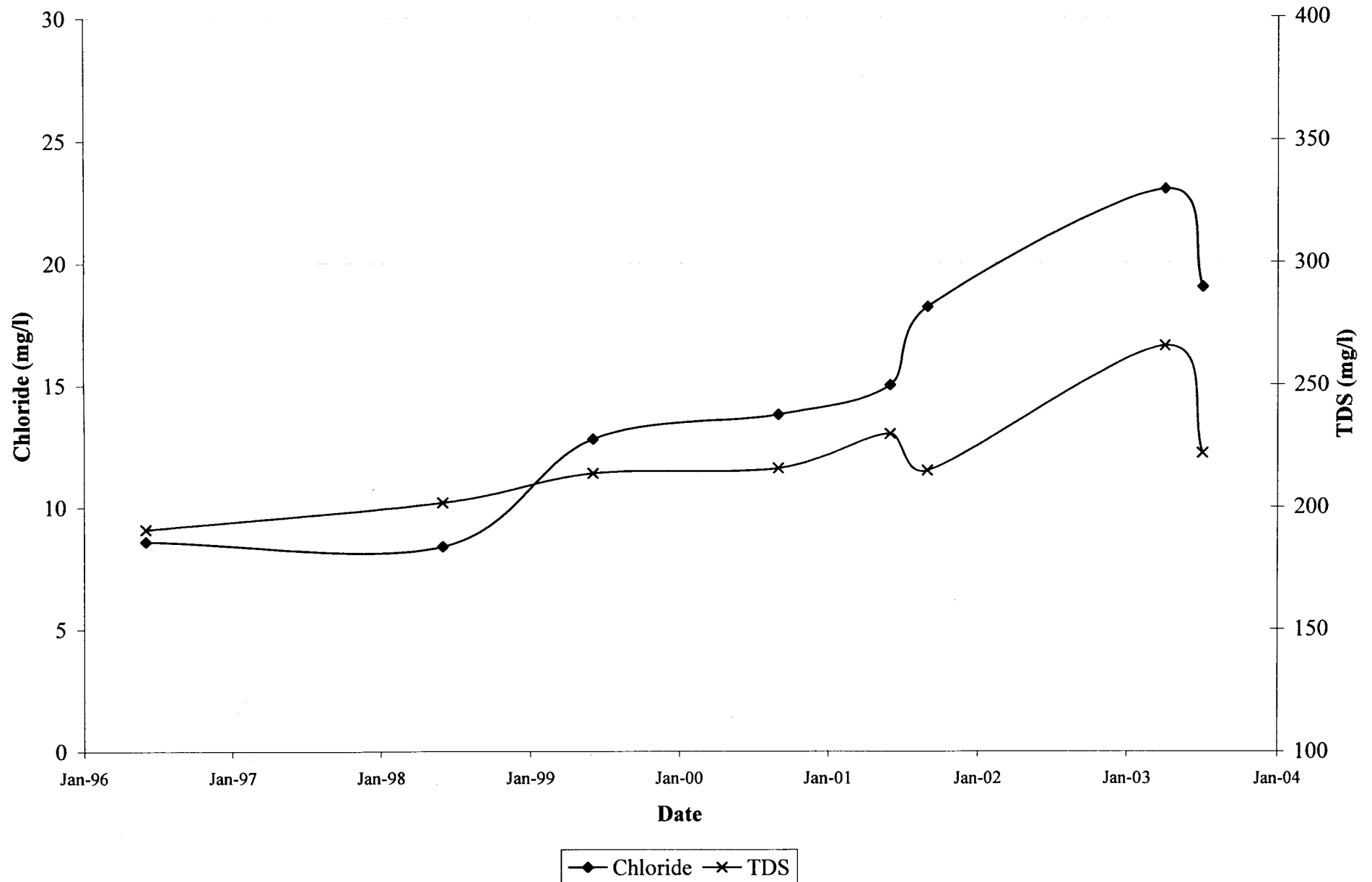


FIGURE 6.10
Palmdale Water Reclamation Plant, SW 7
MBAS, NH₃, TKN, NO₃⁻

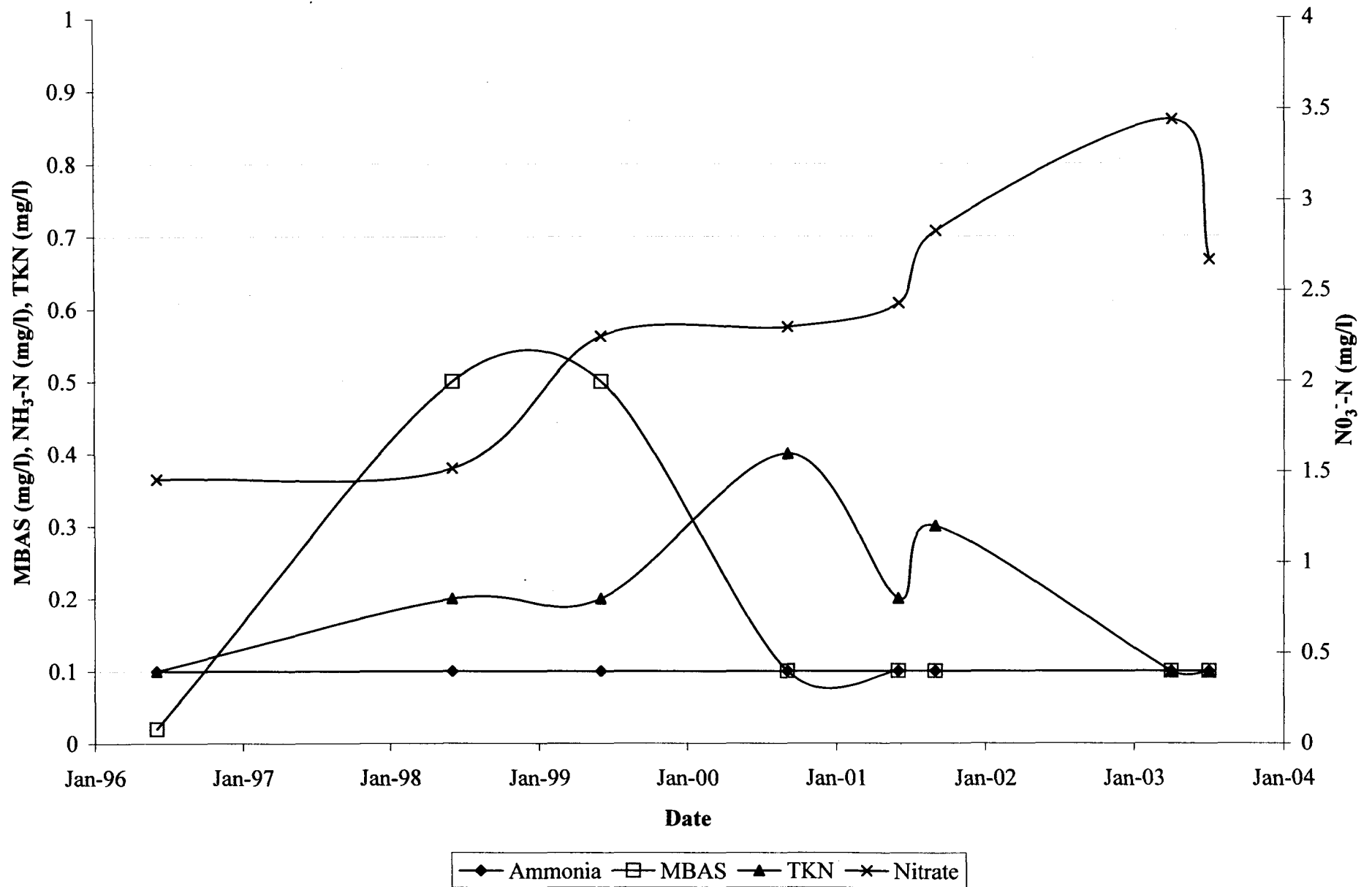


FIGURE 6.11
Palmdale Water Reclamation Plant, SW8
Chloride and TDS

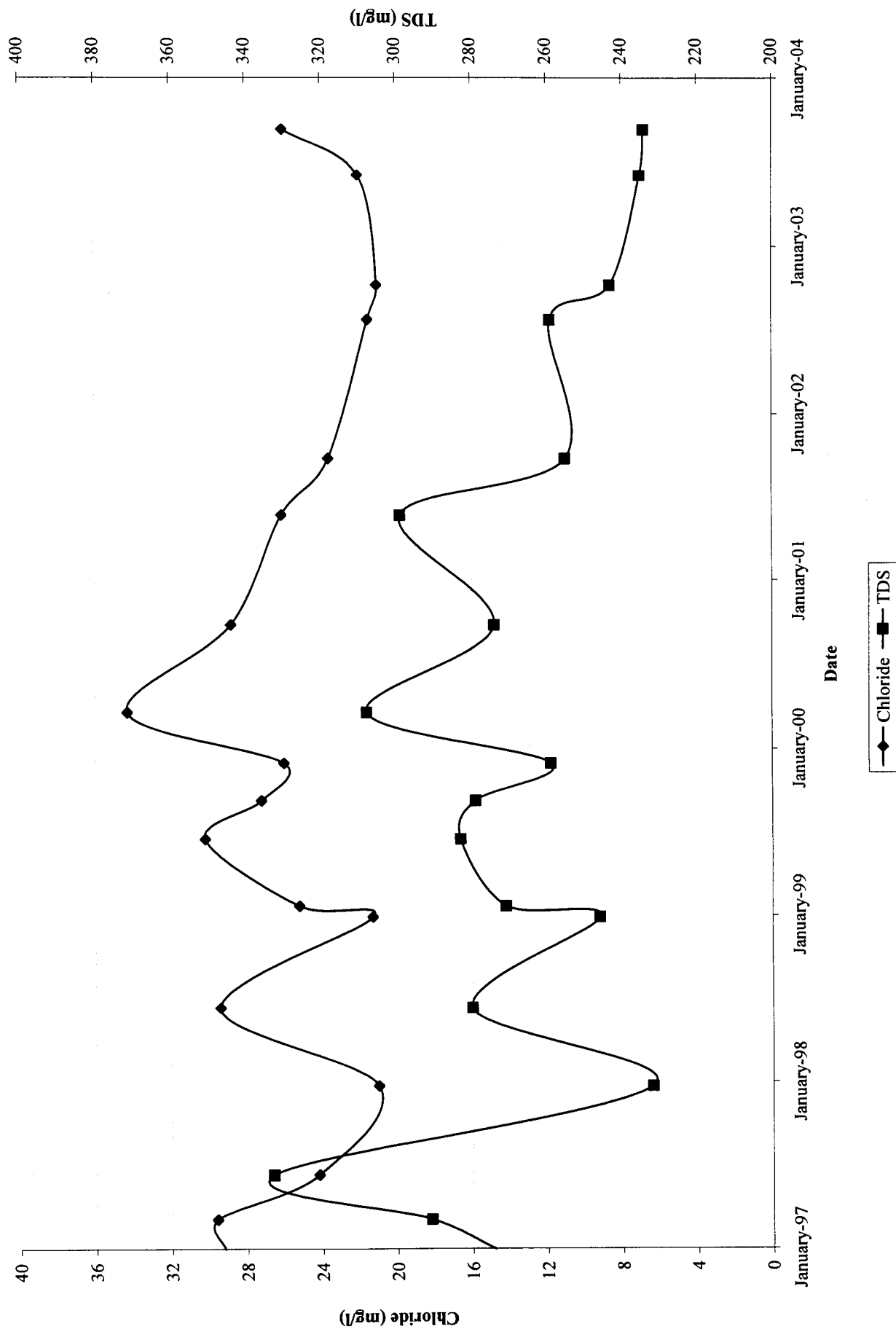


FIGURE 6.12
Palmdale Water Reclamation Plant, SW8
MBAS, TKN, NH₃, NO₃⁻

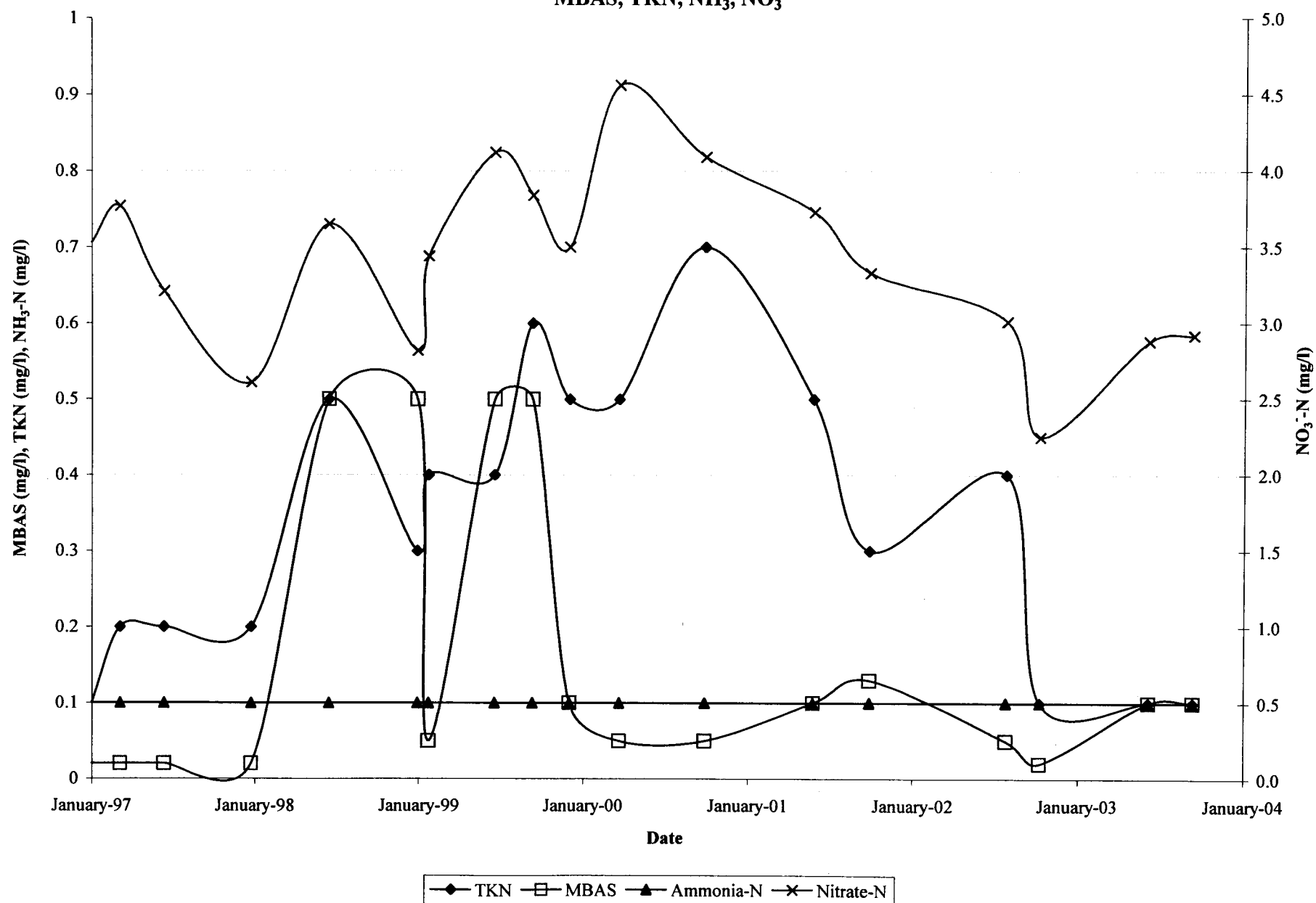


FIGURE 6.13
Palmdale Water Reclamation Plant, SW9
Chloride and TDS

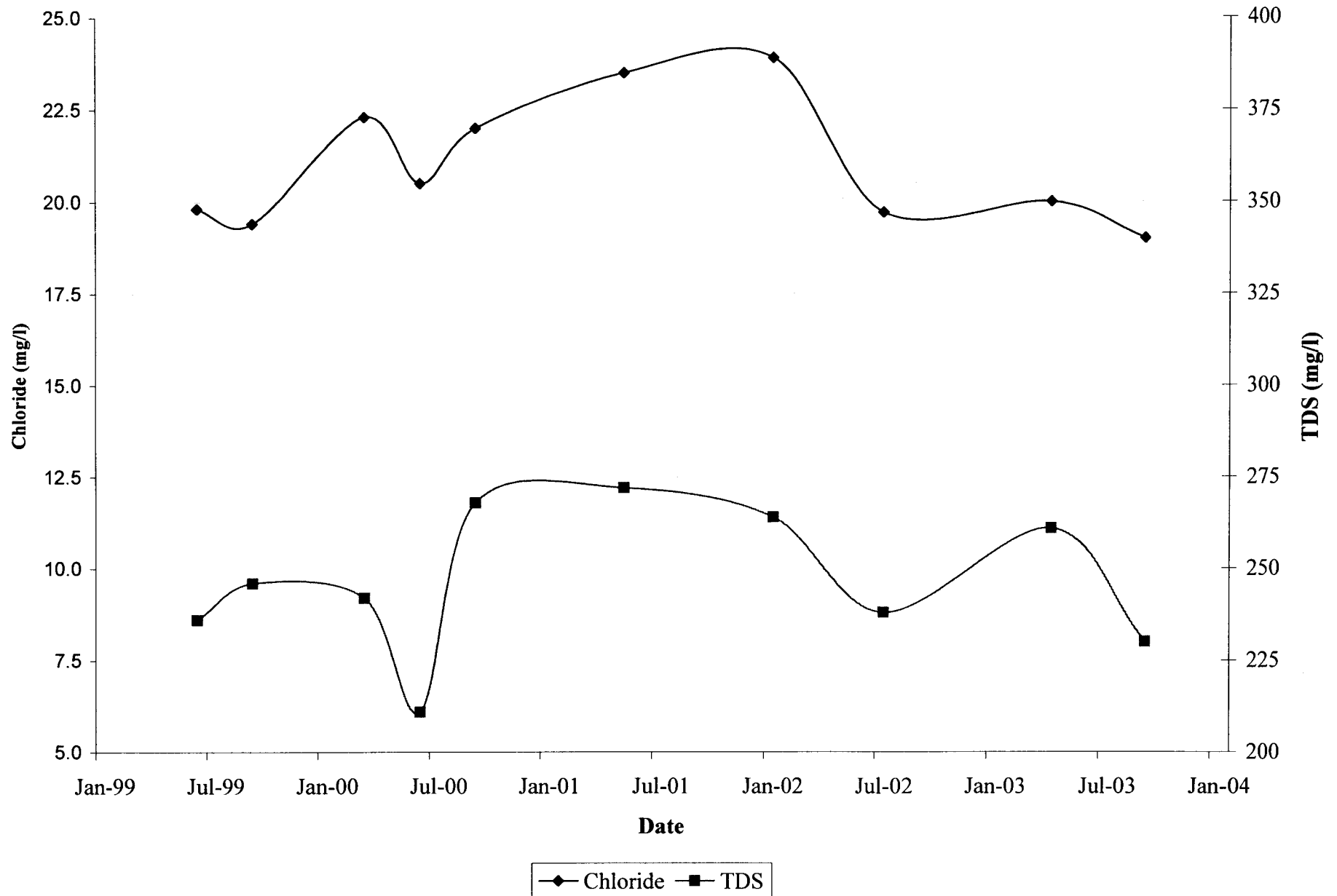


FIGURE 6.14
Palmdale Water Reclamation Plant, SW9
MBAS Nitrate TKN Ammonia

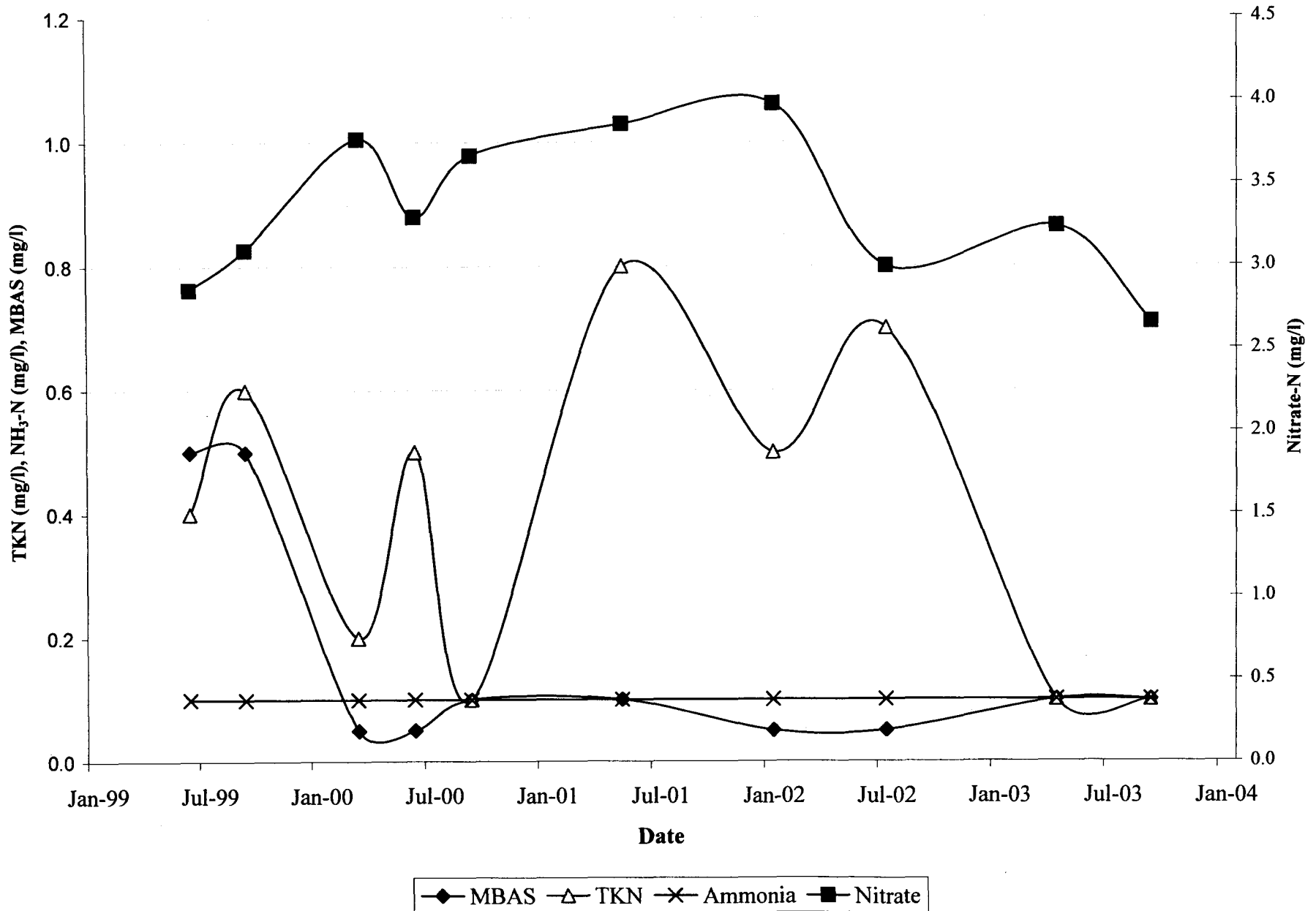


FIGURE 6.15
Palmdale Water Reclamation Plant SW 10
Chloride and TDS

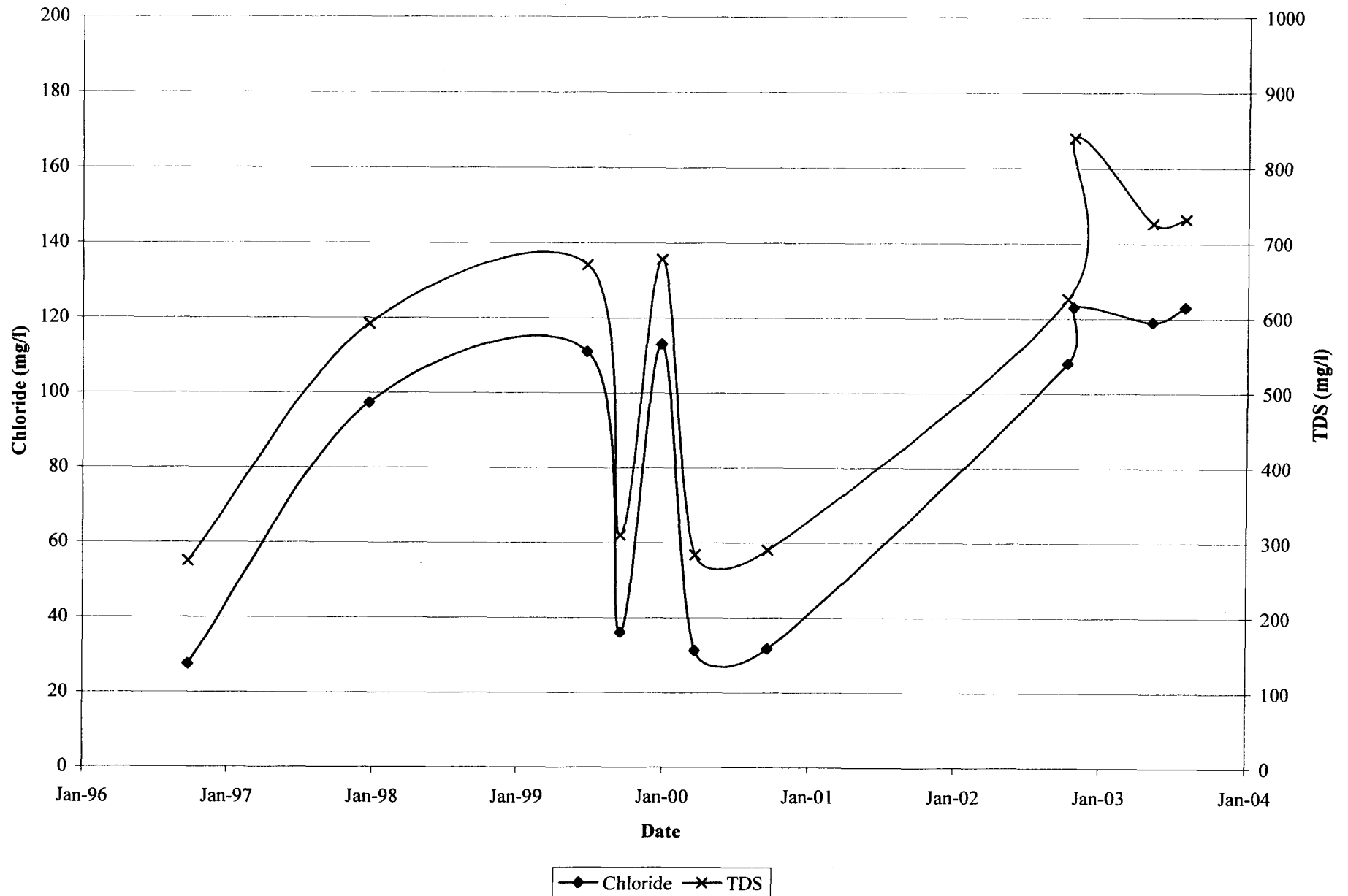


FIGURE 6.16
Palmdale Water Reclamation Plant SW 10
MBAS, NH₃, TKN, NO₃⁻

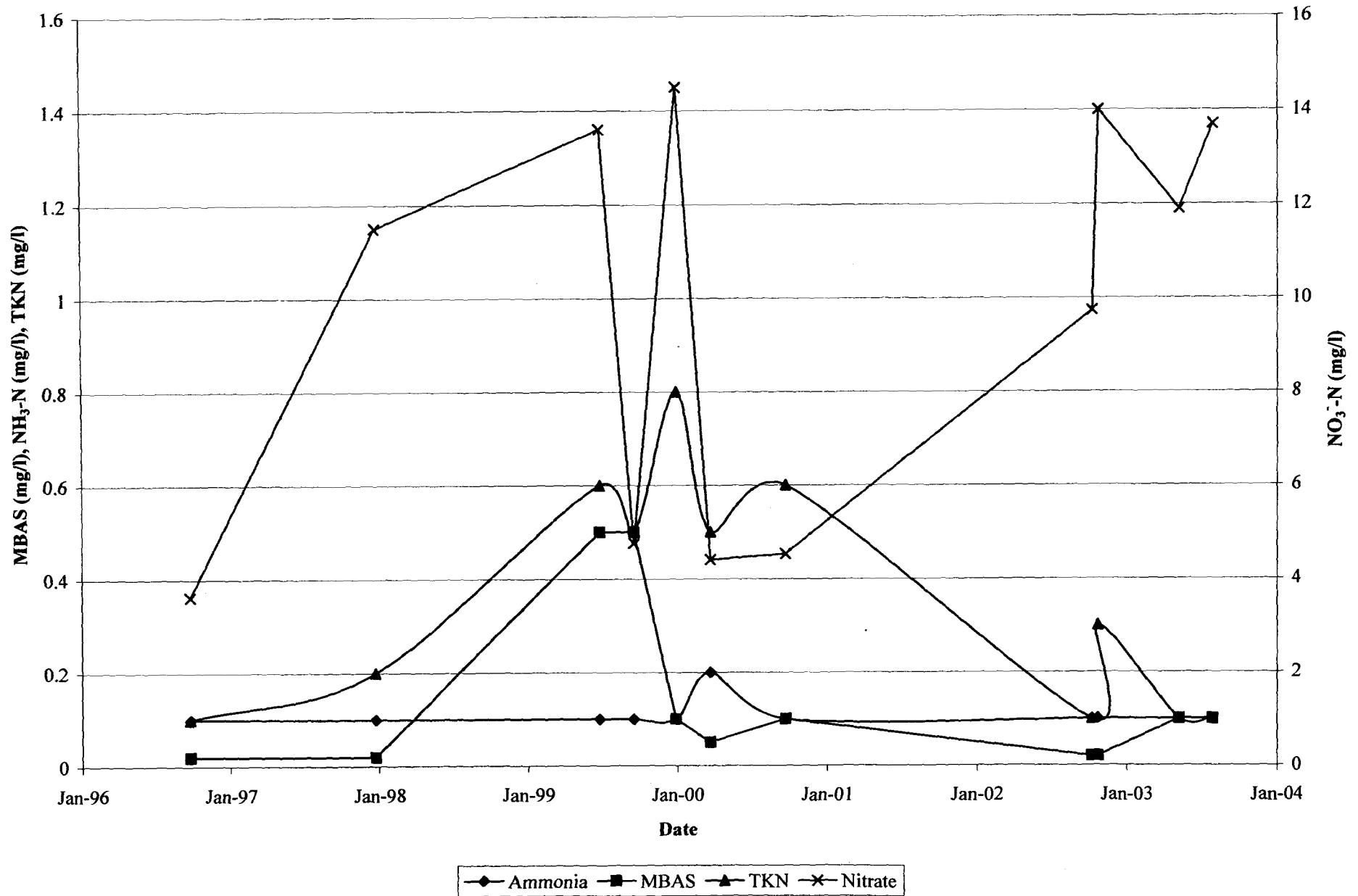


FIGURE 6.17
Palmdale Water Reclamation Plant SW13
Chloride and TDS

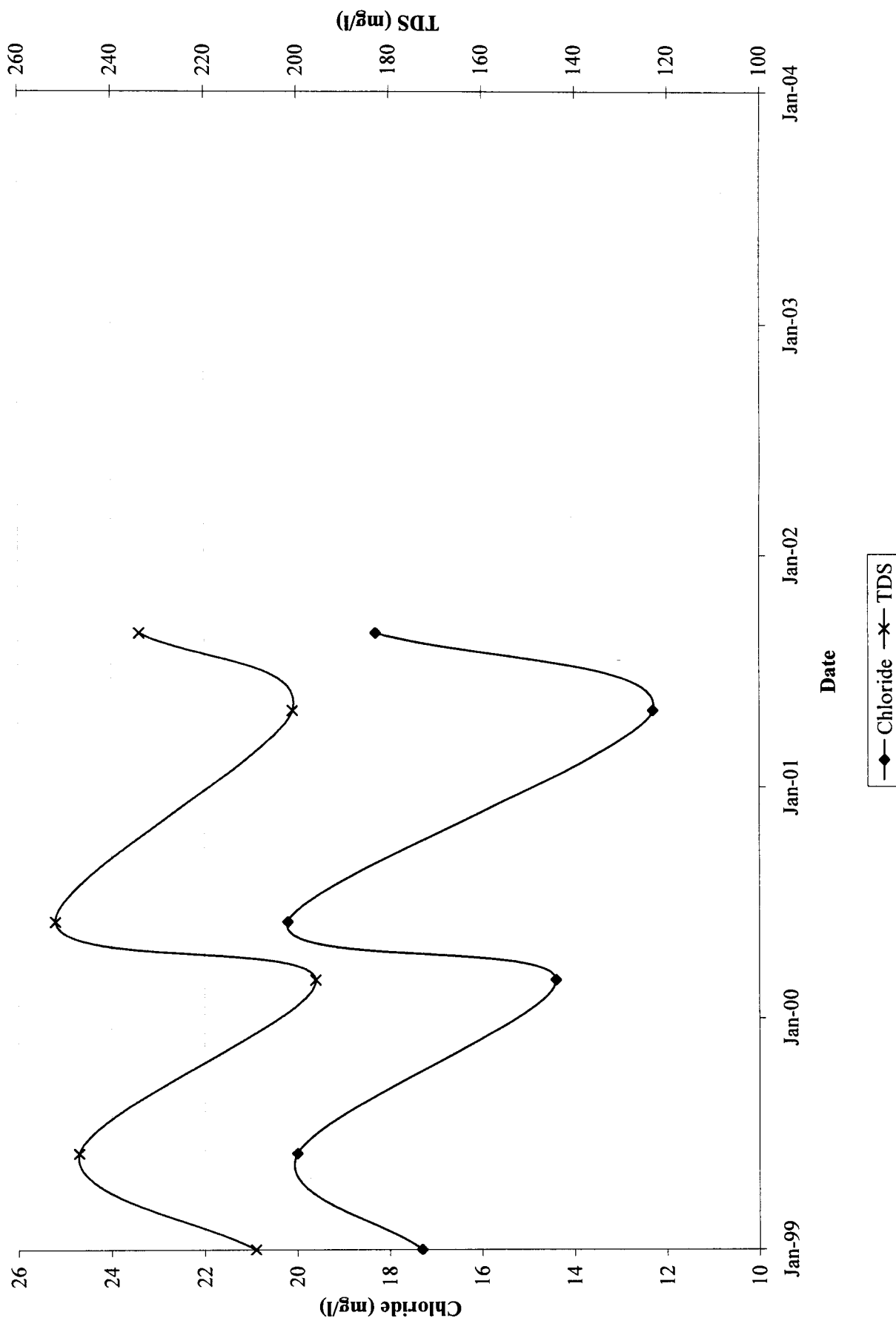


FIGURE 6.18
Palmdale Water Reclamation Plant SW13
MBAS, NH₃, TKN, NO₃⁻

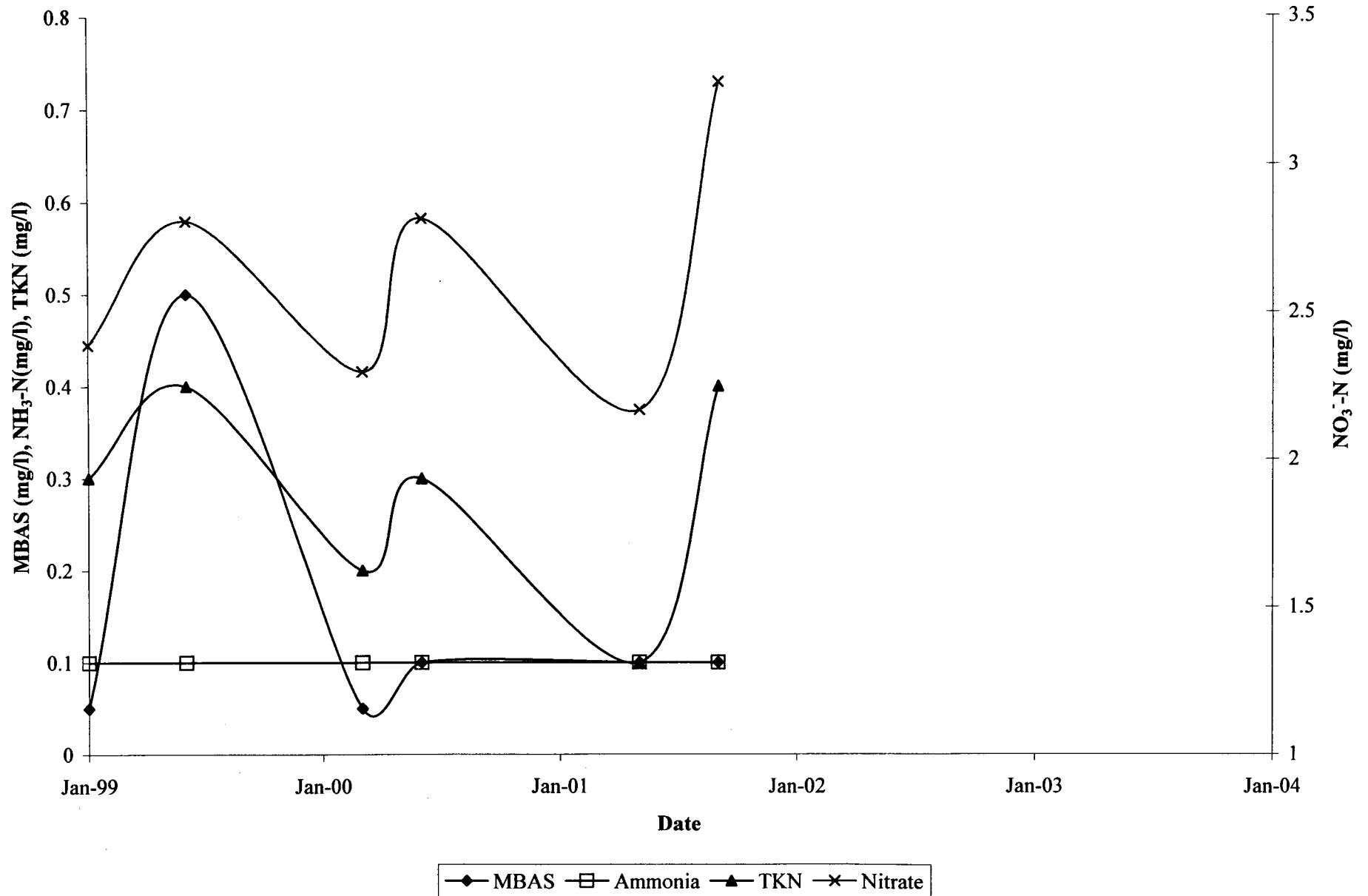


FIGURE 6.19
Palmdale Water Reclamation Plant SW 14
Chloride and TDS

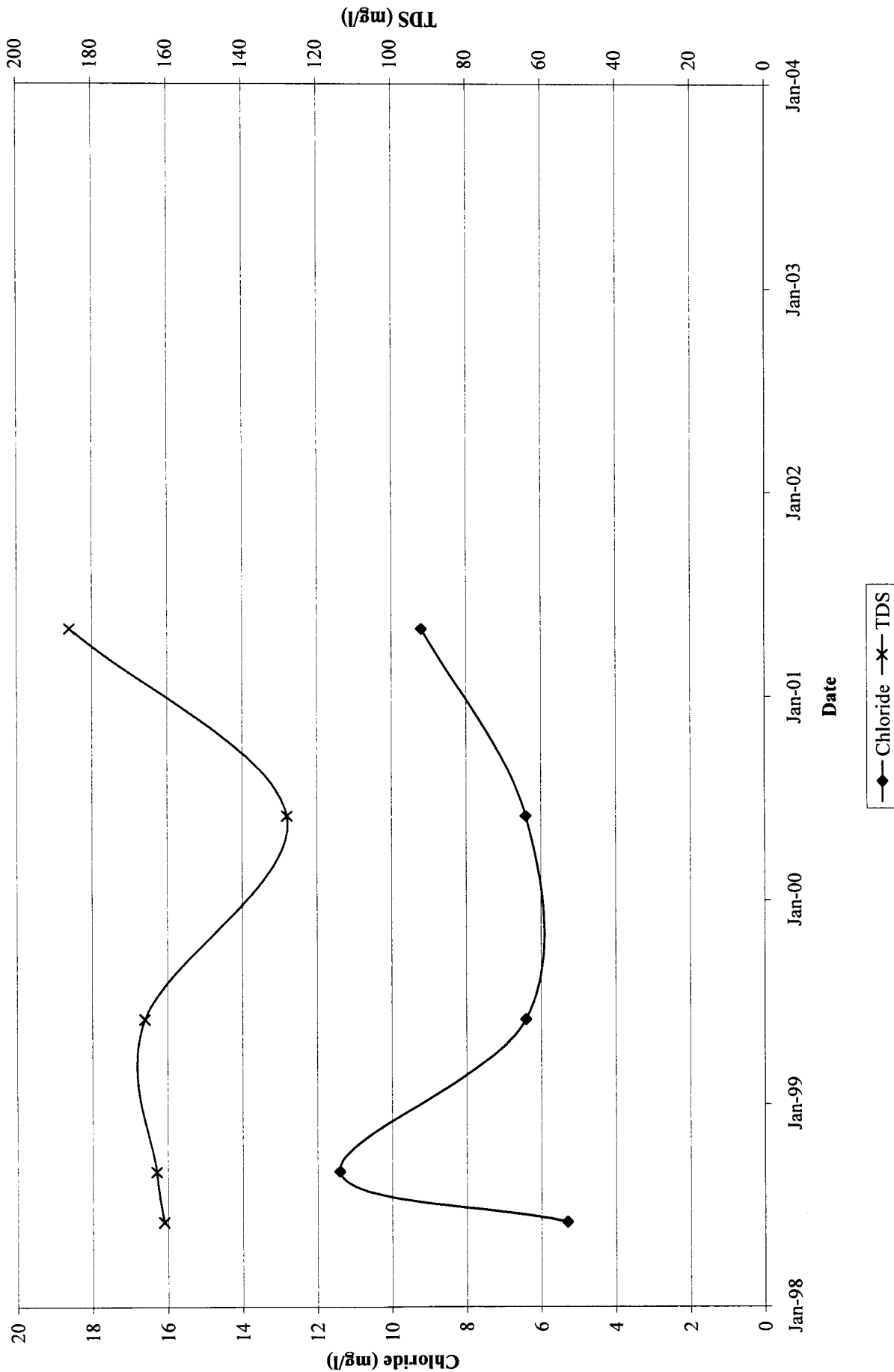


FIGURE 6.20
Palmdale Water Reclamation Plant SW 14
MBAS, NH₃, TKN, NO₃⁻

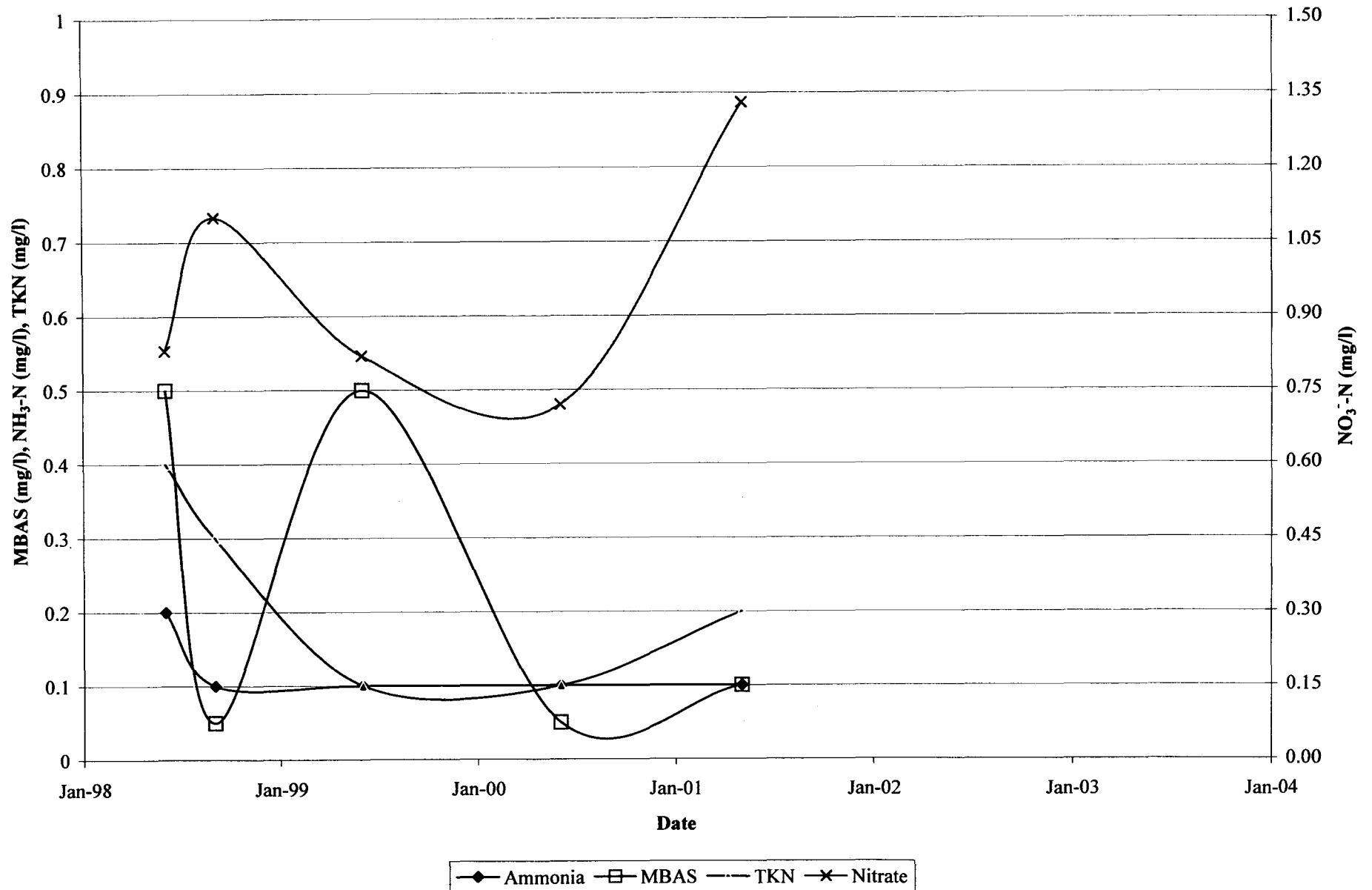


FIGURE 6.21
Palmdale Water Reclamation Plant SWE
Chloride and TDS

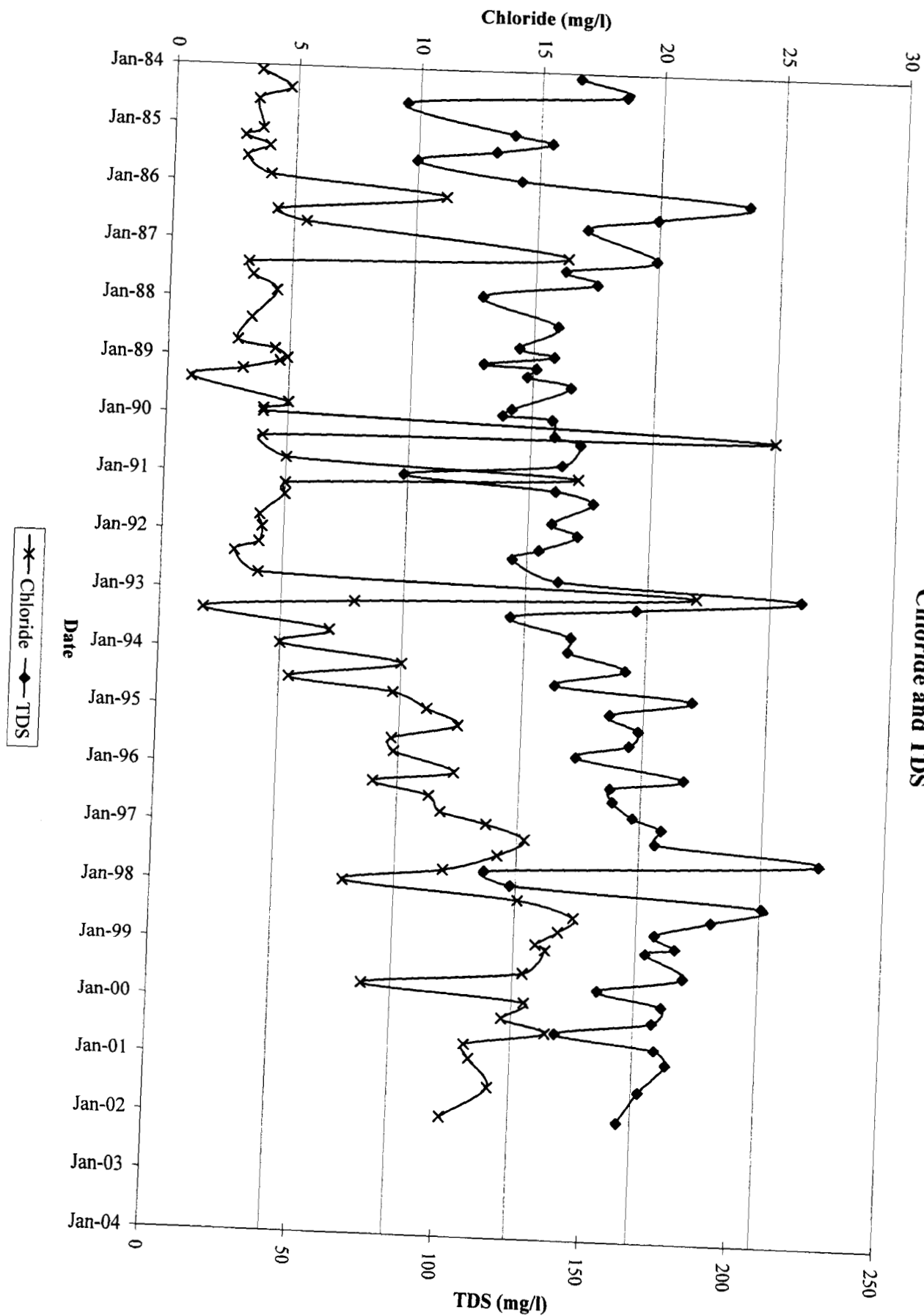


FIGURE 6.22
Palmdale Water Reclamation Plant SWE
MBAS, NH_3 , TKN, NO_3^-

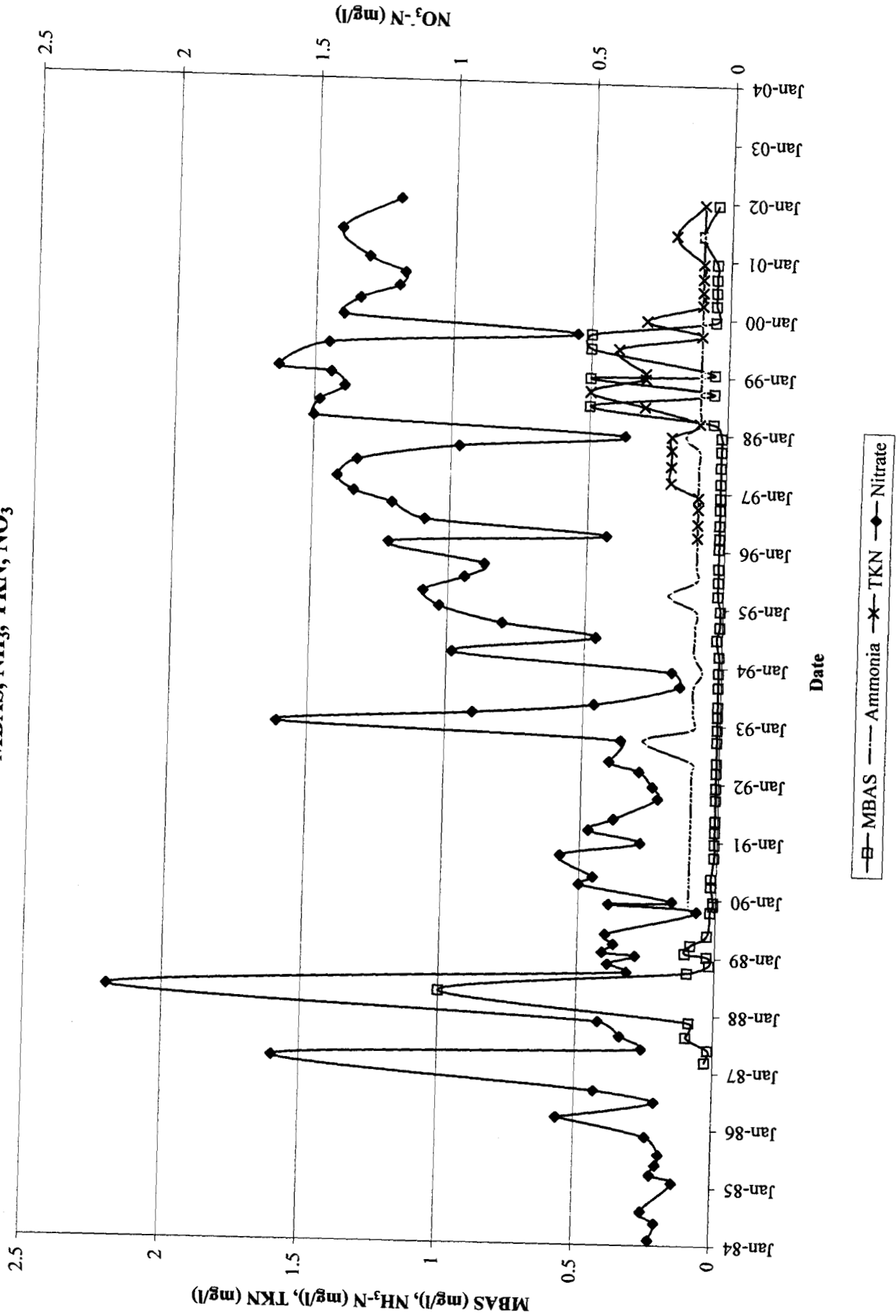


FIGURE 6.23
Palmdale Water Reclamation Plant SW H2
Chloride and TDS

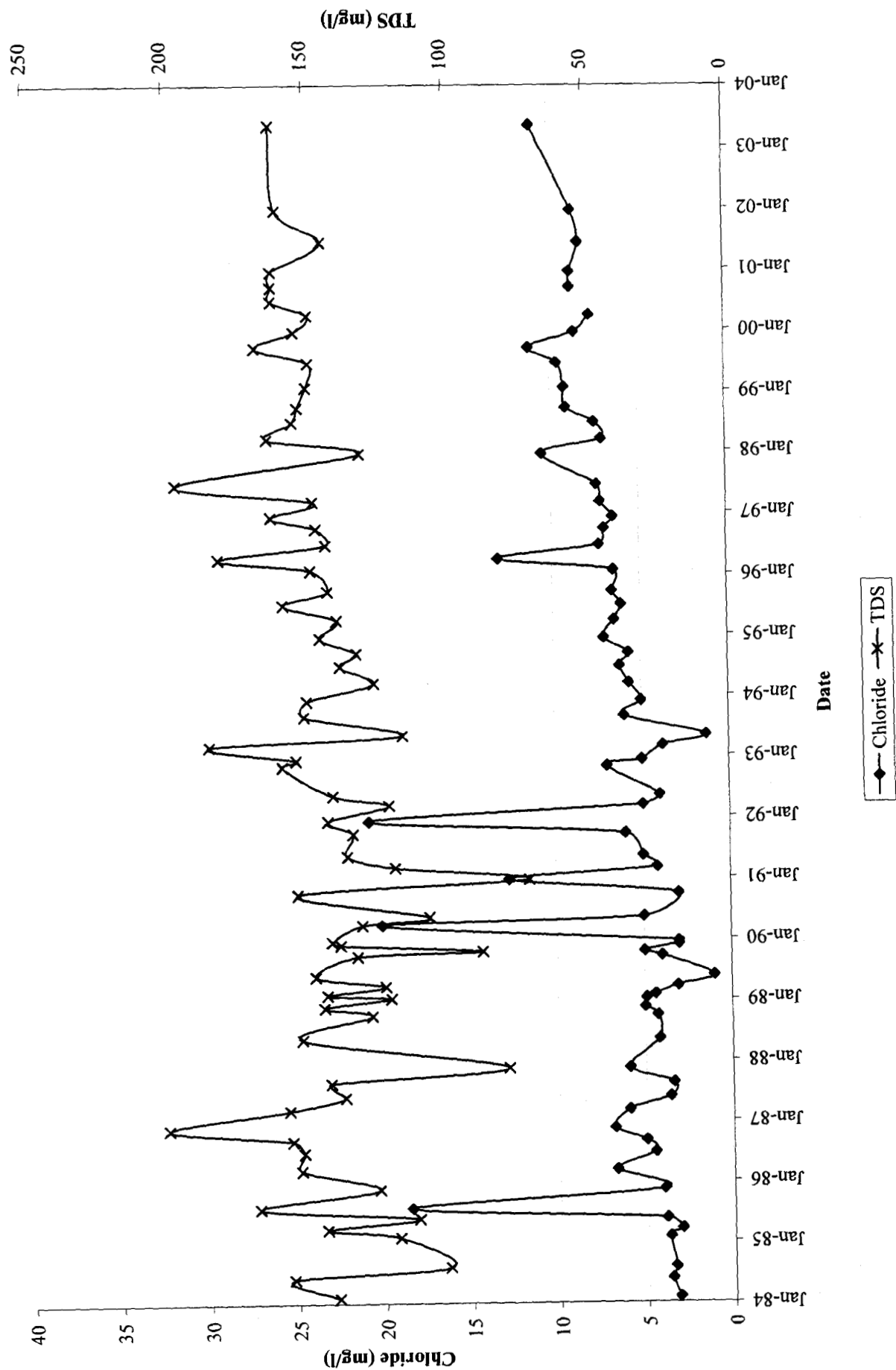


FIGURE 6.24
Palmdale Water Reclamation Plant SW H2
MBAS, NH₃, TKN, NO₃⁻

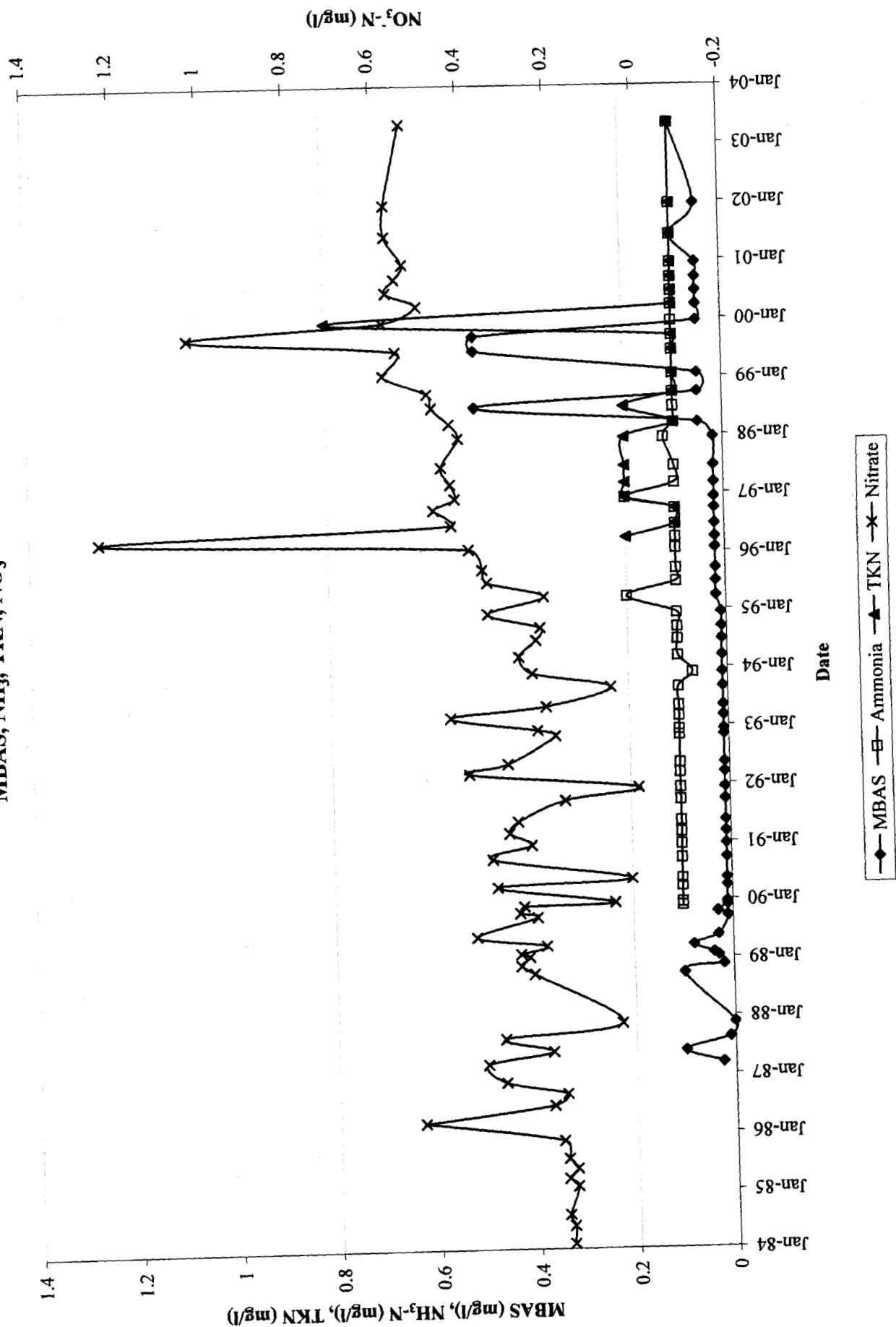


FIGURE 6.25
Palmdale Water Reclamation Plant MW 1
Chloride and TDS

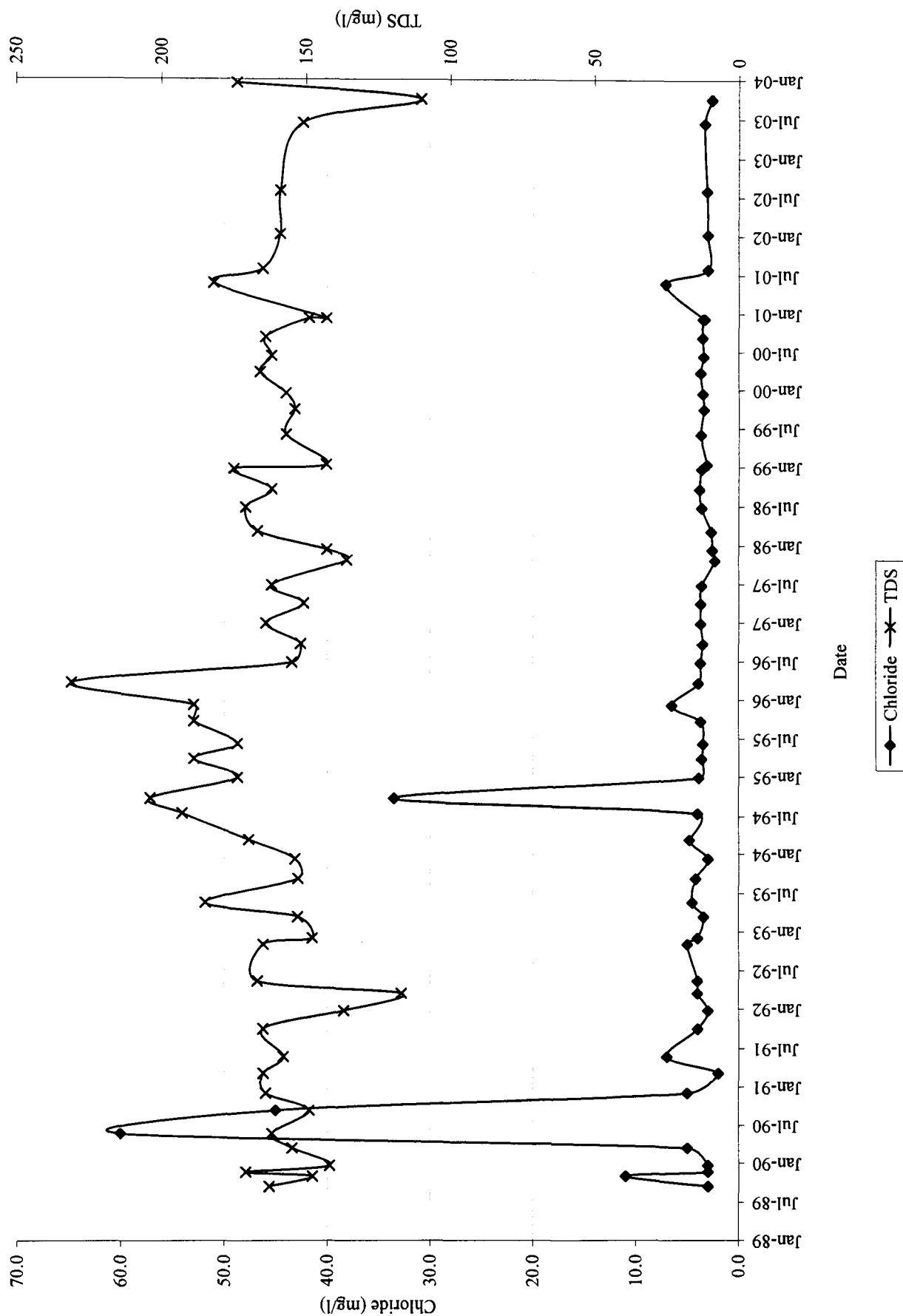


FIGURE 6.26
Palmdale Water Reclamation Plant MW 1
MBAS, NH₃, TKN, NO₃⁻

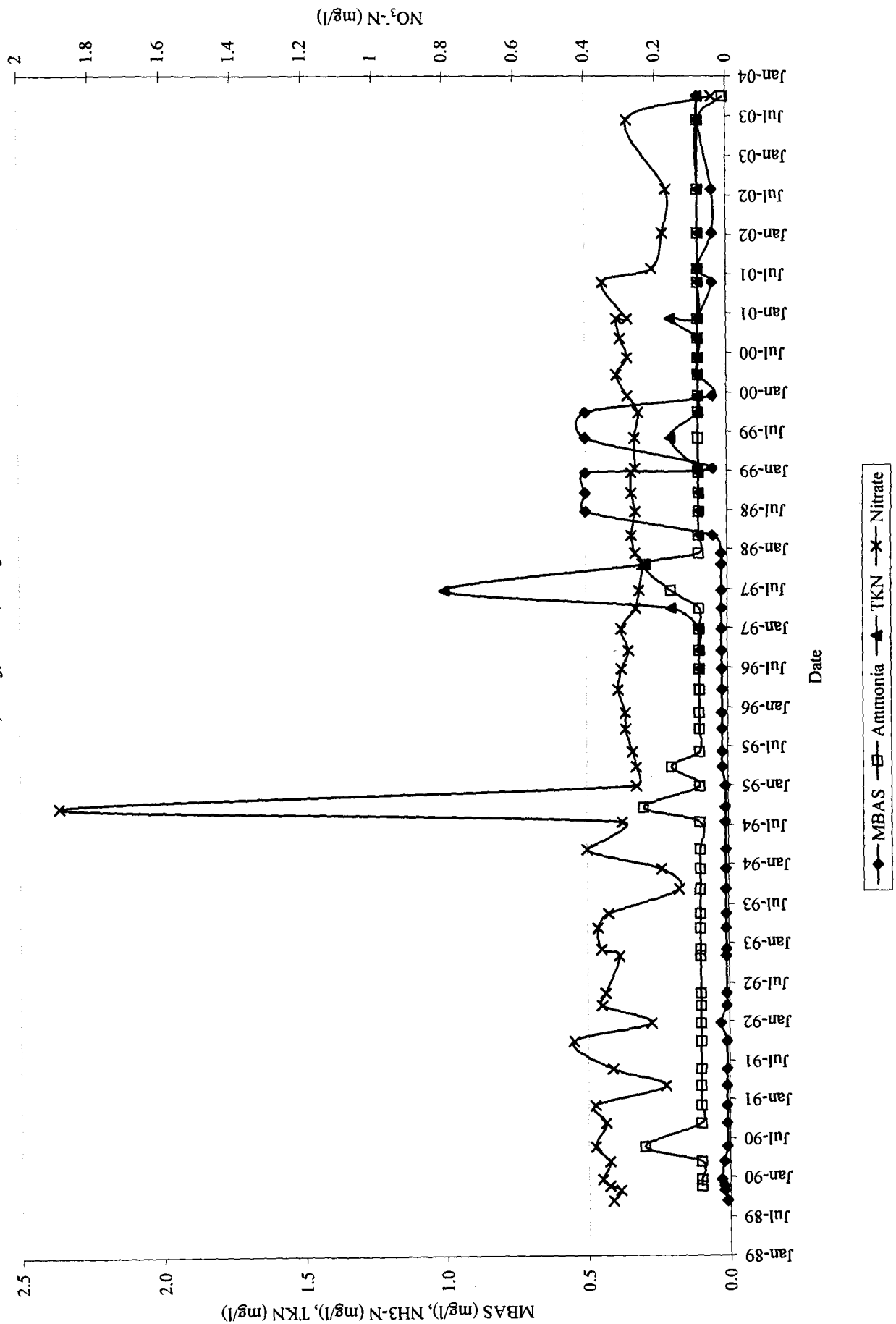


FIGURE 6.27
Palmdale Water Reclamation Plant MW 1
Groundwater Elevation and Depth to Groundwater

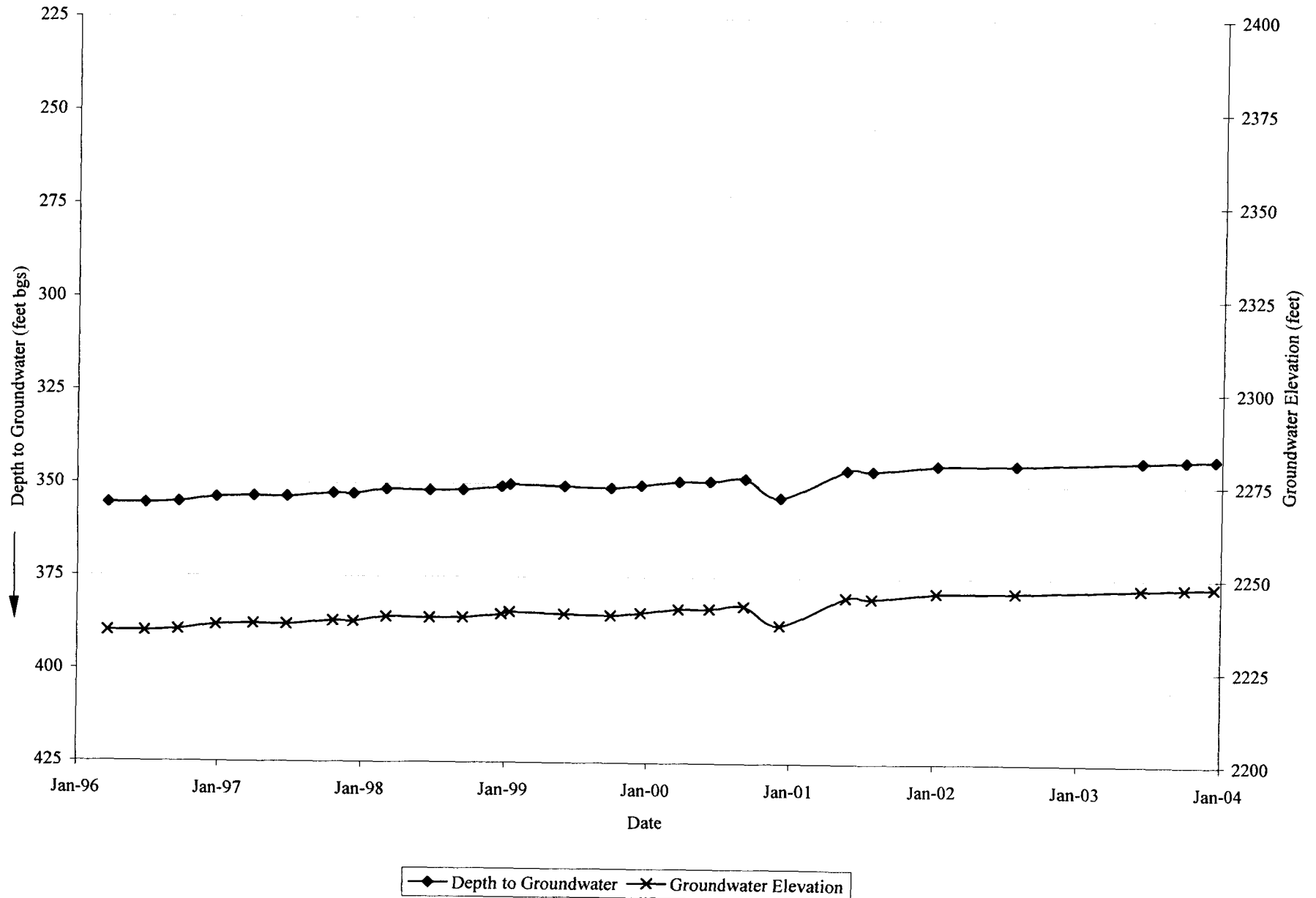


FIGURE 6.28
Palmdale Water Reclamation Plant MW 2
 Chloride and TDS

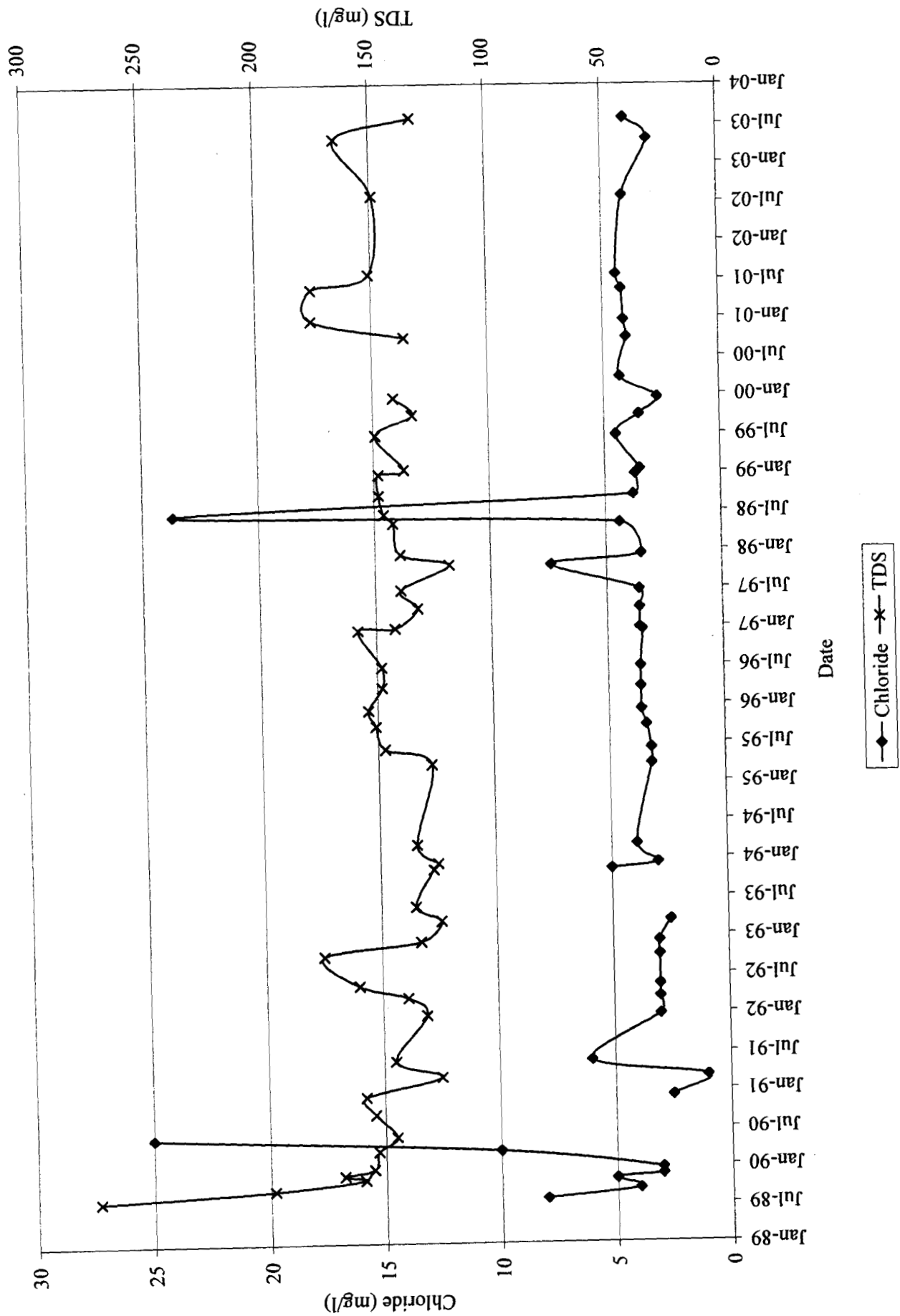


FIGURE 6.29
Palmdale Water Reclamation Plant MW 2
MBAS, NH₃, TKN, NO₃⁻

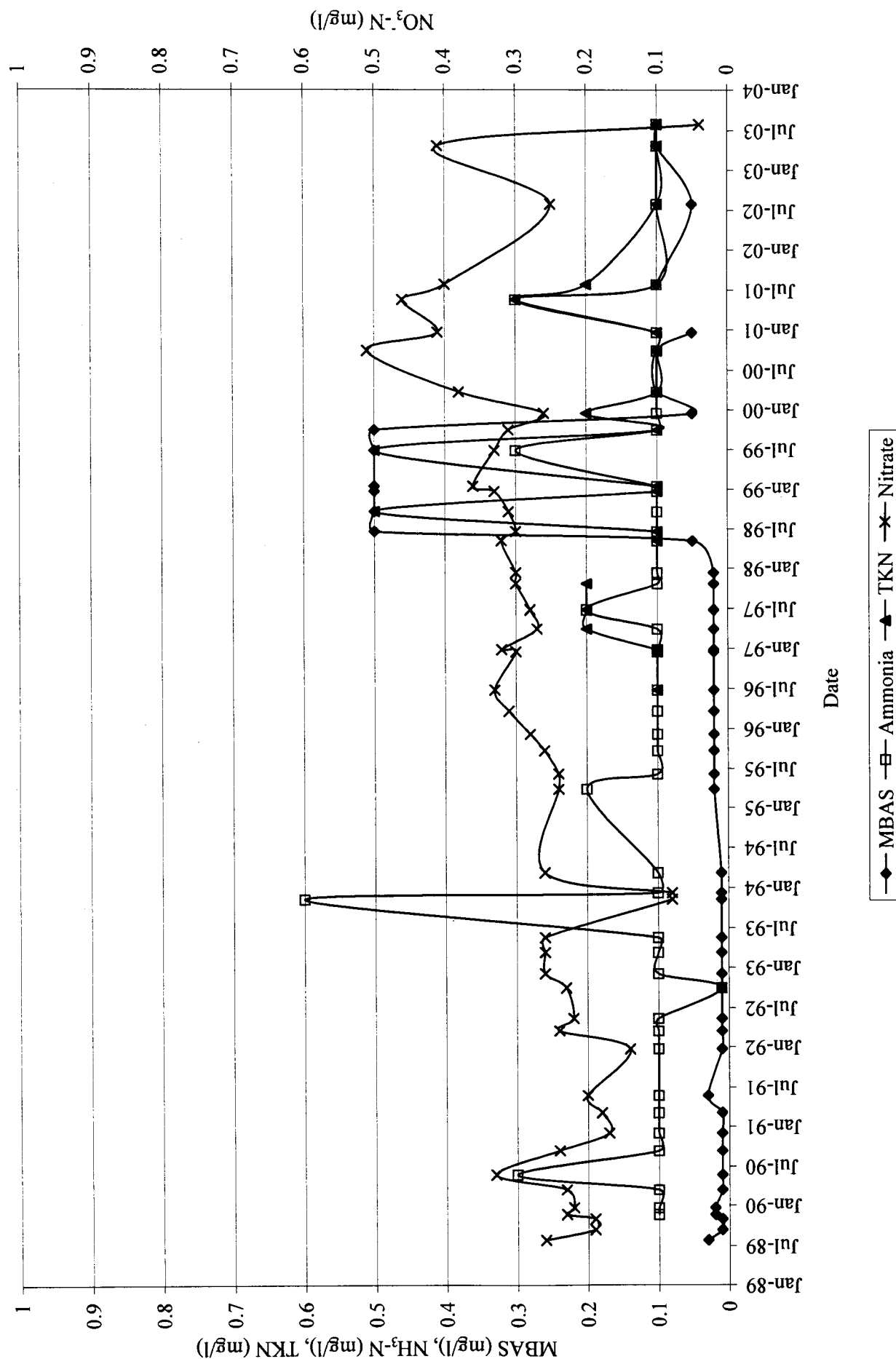


FIGURE 6.30
Palmdale Water Reclamation Plant MW 2
 Groundwater Elevation and Depth to Groundwater

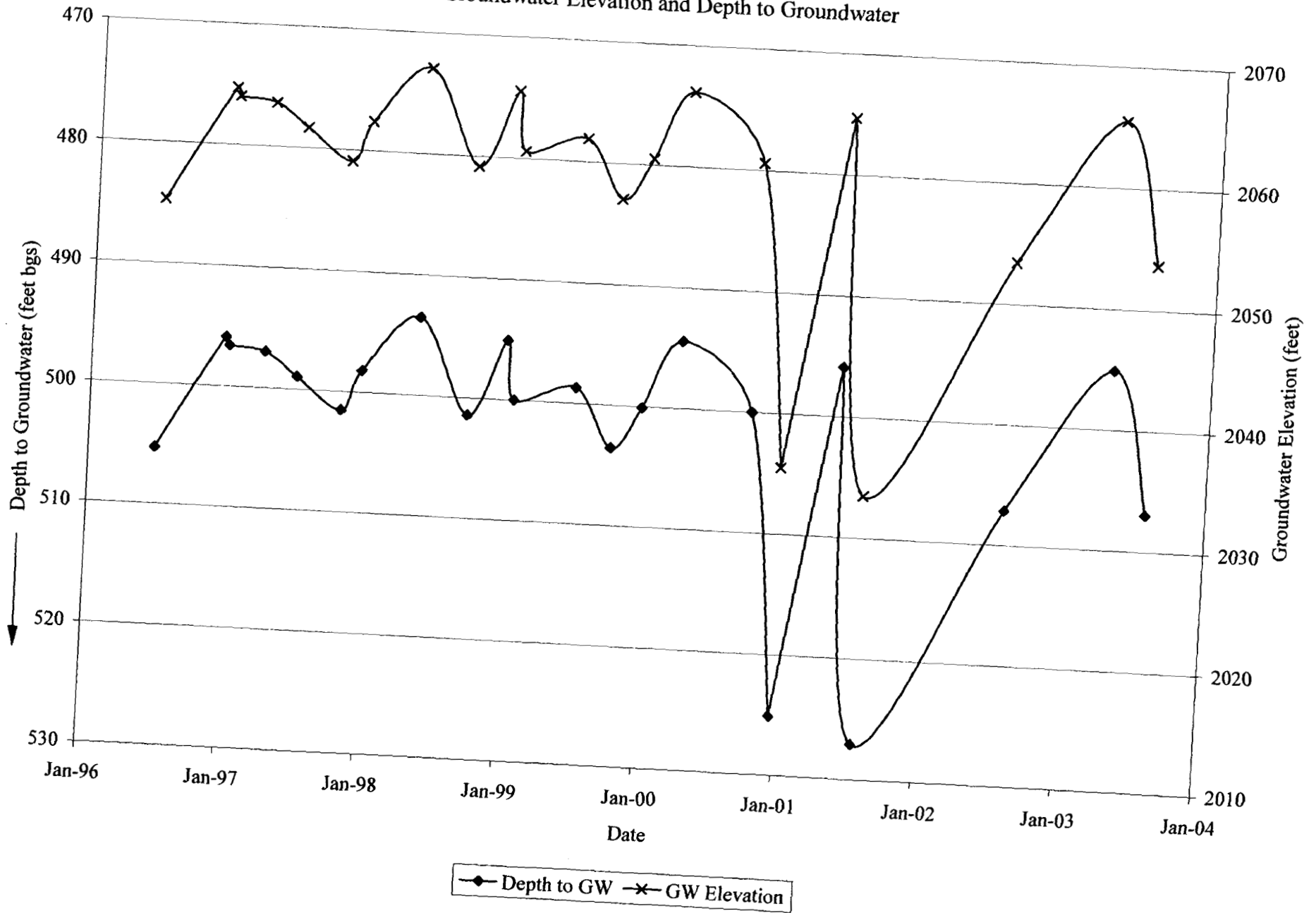


FIGURE 6.31
Palmdale Water Reclamation Plant MW 4
Chloride and TDS

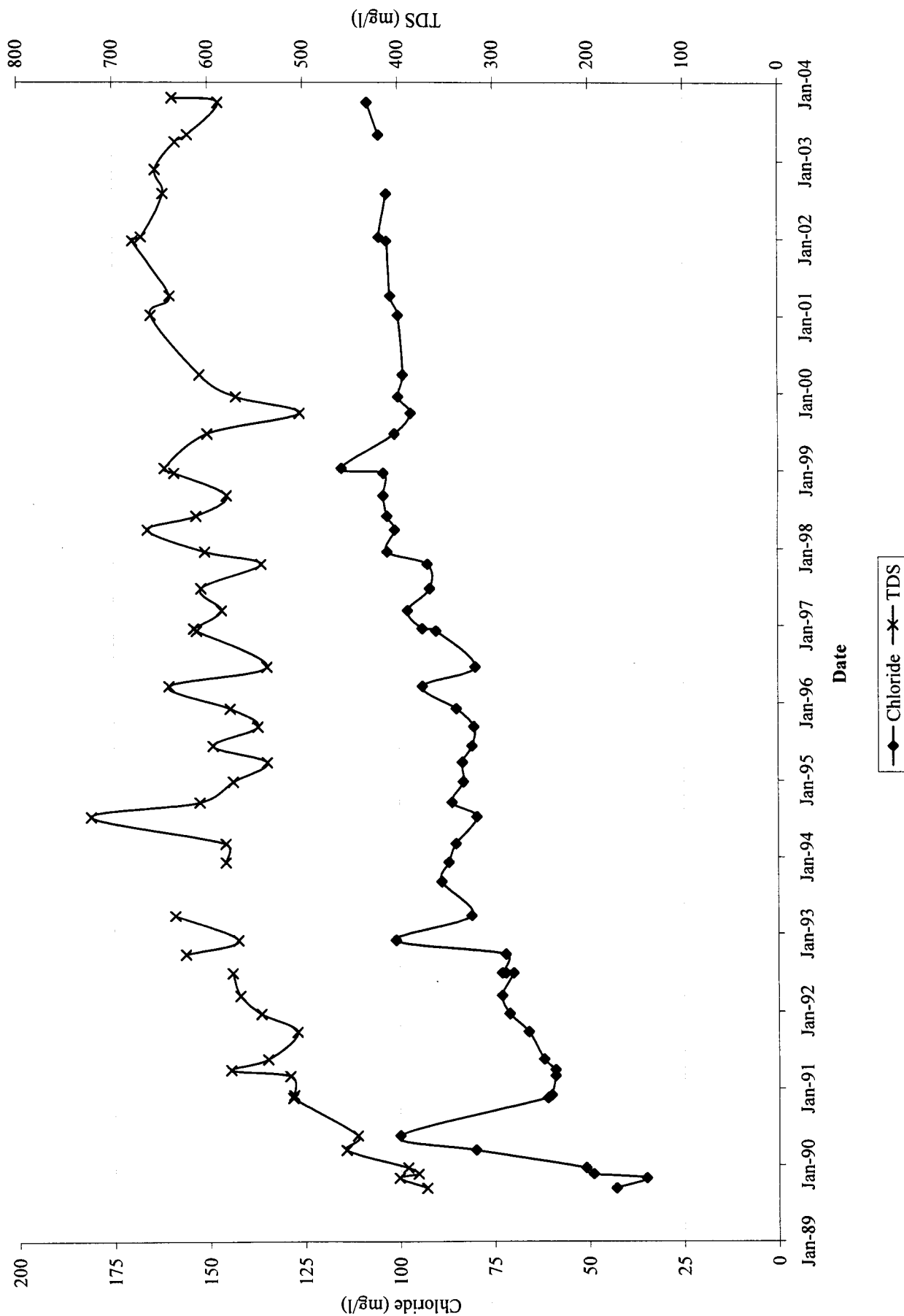


FIGURE 6.32
Palmdale Water Reclamation Plant MW 4
MBAS, NH₃, TKN, NO₃⁻

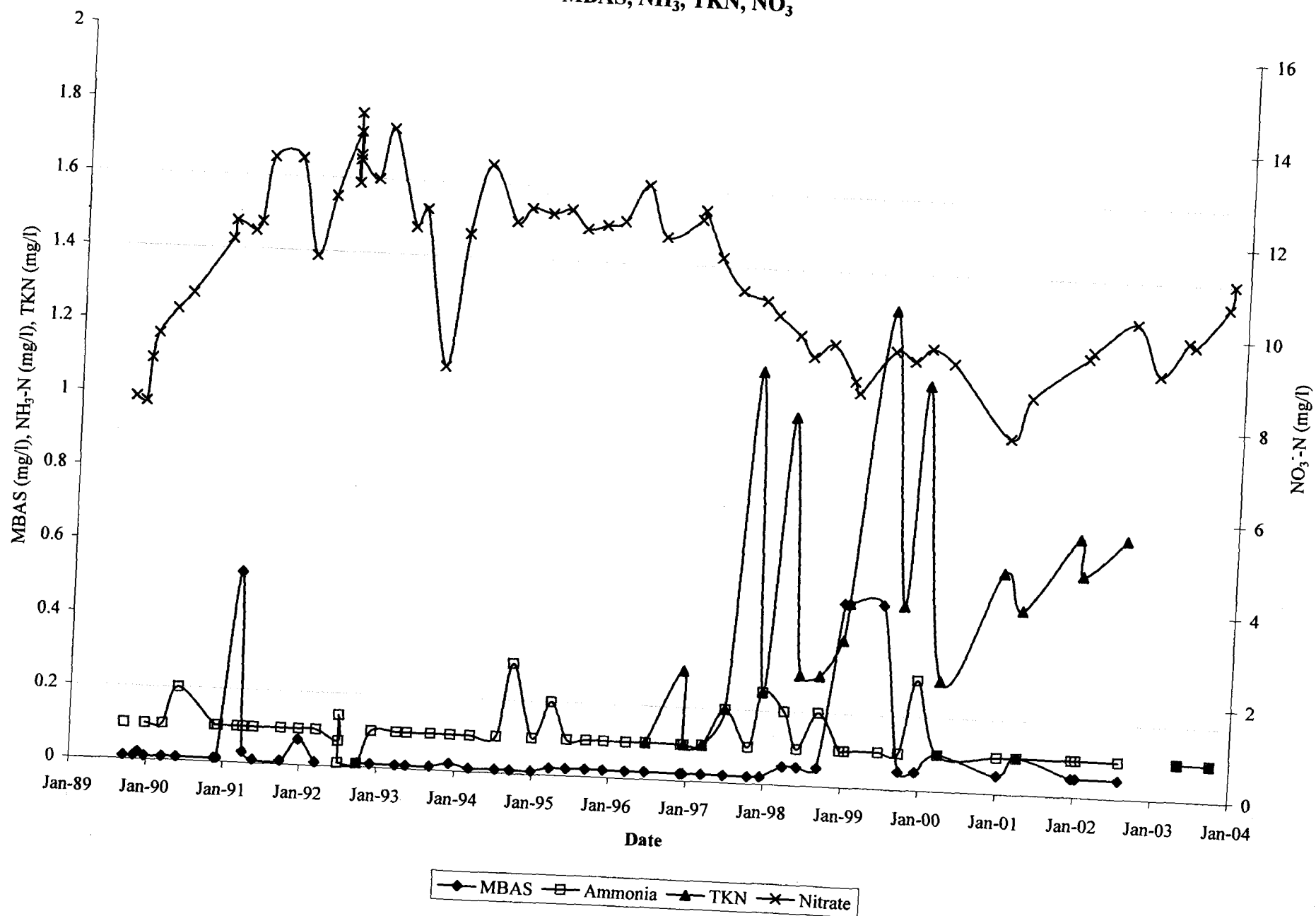


FIGURE 6.33
Palmdale Water Reclamation Plant MW 4
Groundwater Elevation and Depth to Groundwater

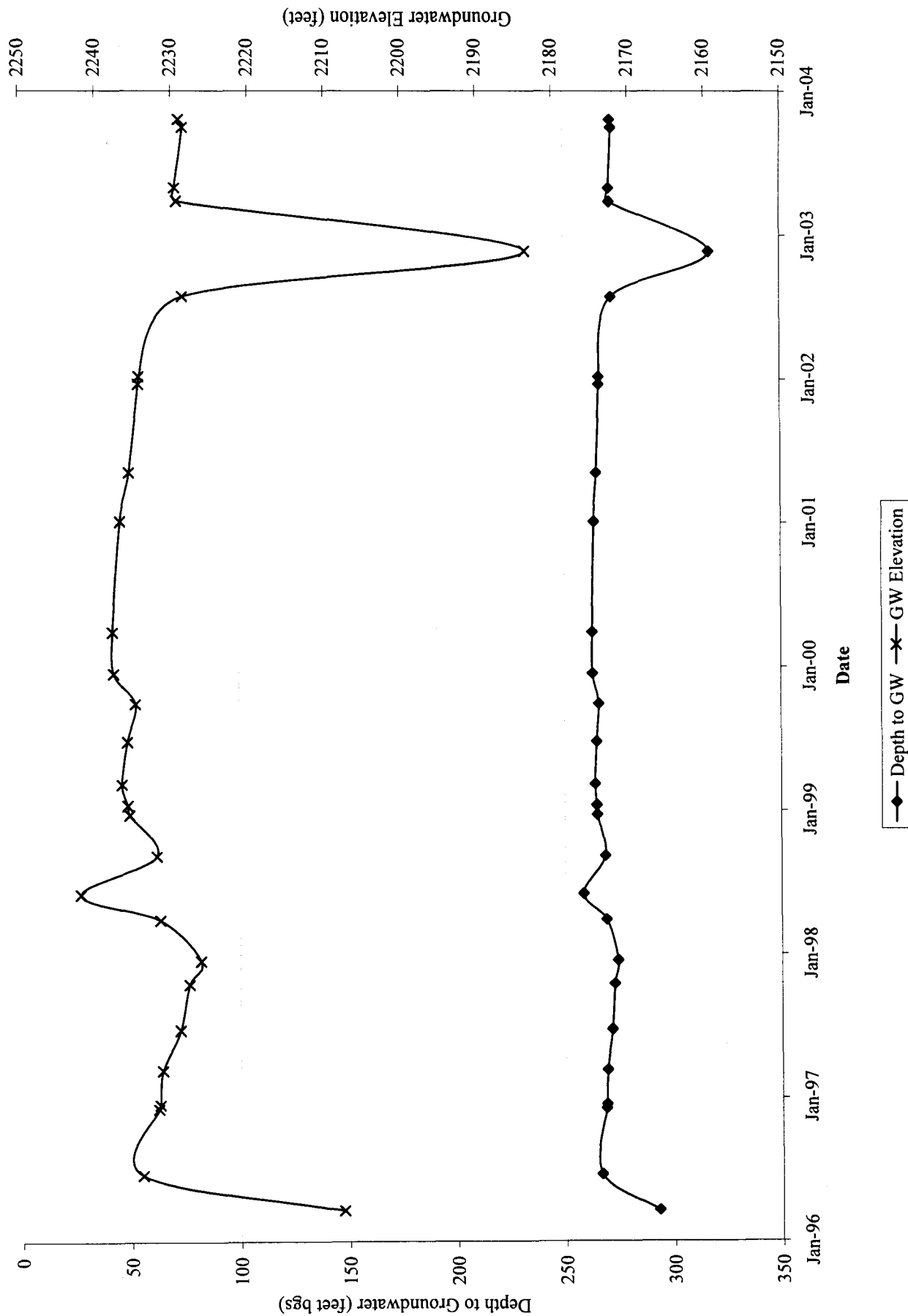


FIGURE 6.34
Palmdale Water Reclamation Plant MW 15
Chloride and TDS

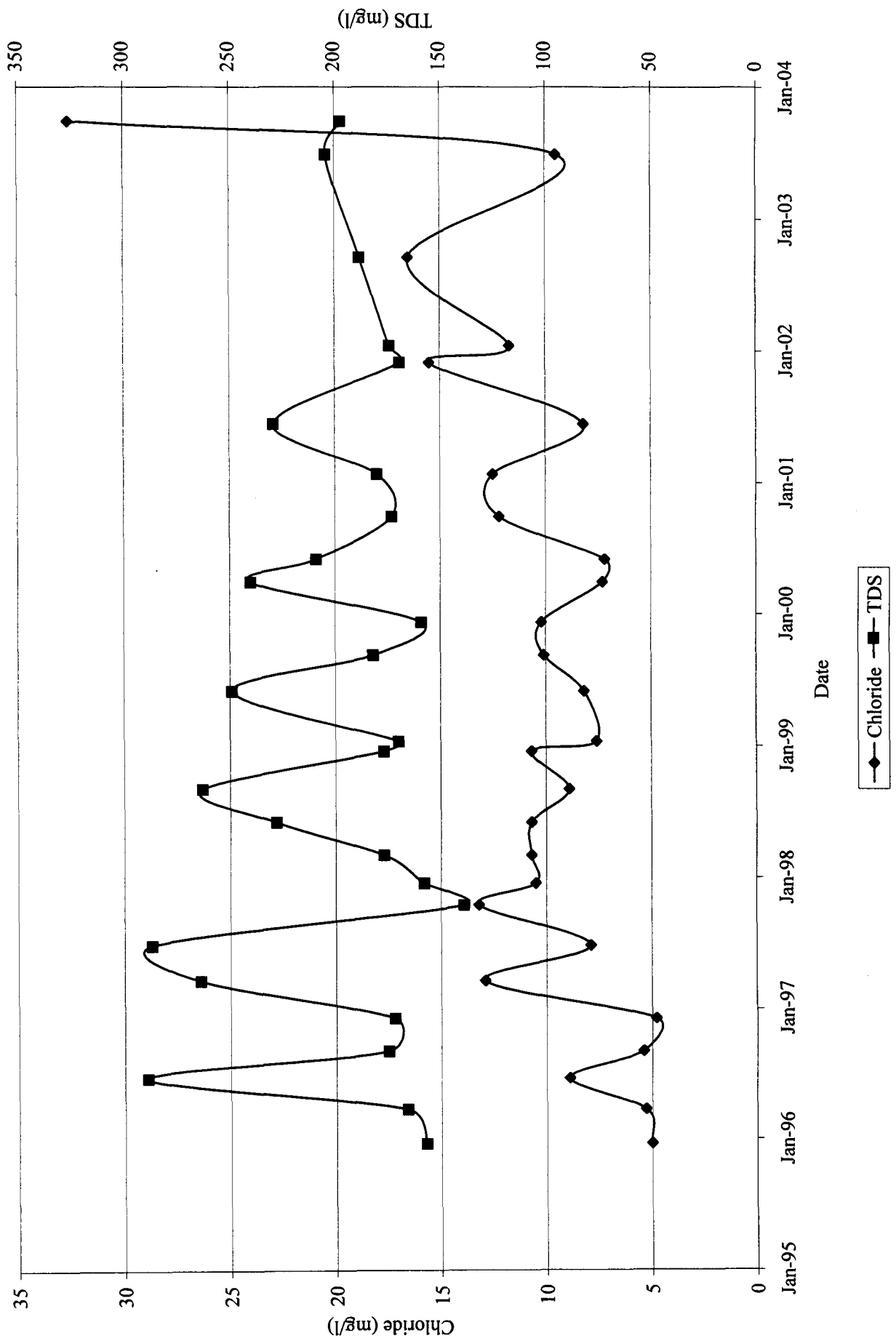


FIGURE 6.35
Palmdale Water Reclamation Plant MW 15
MBAS, NH₃, TKN, NO₃⁻

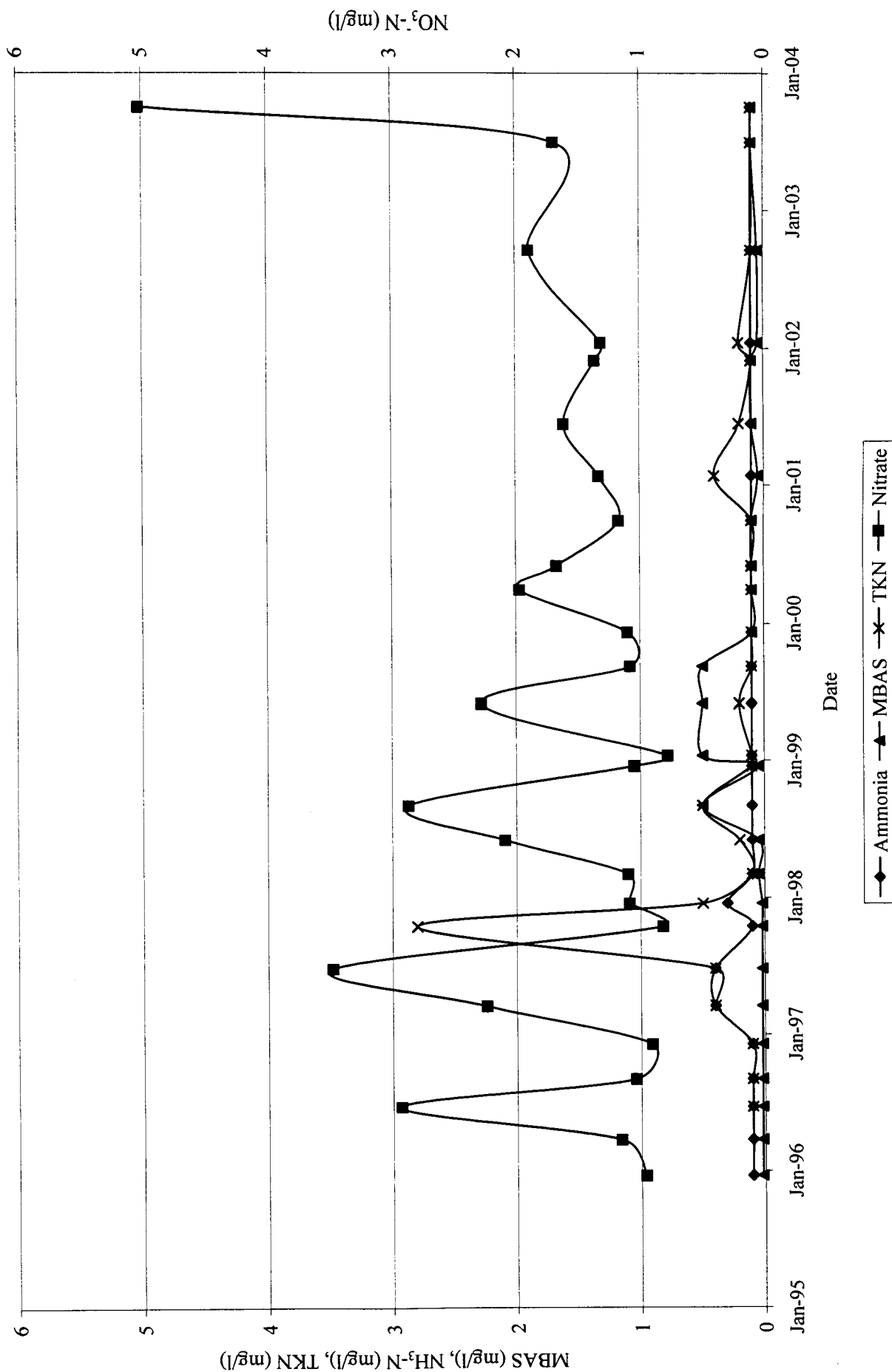


FIGURE 6.36
Palmdale Water Reclamation Plant MW 15
 Groundwater Elevation and Depth to Groundwater

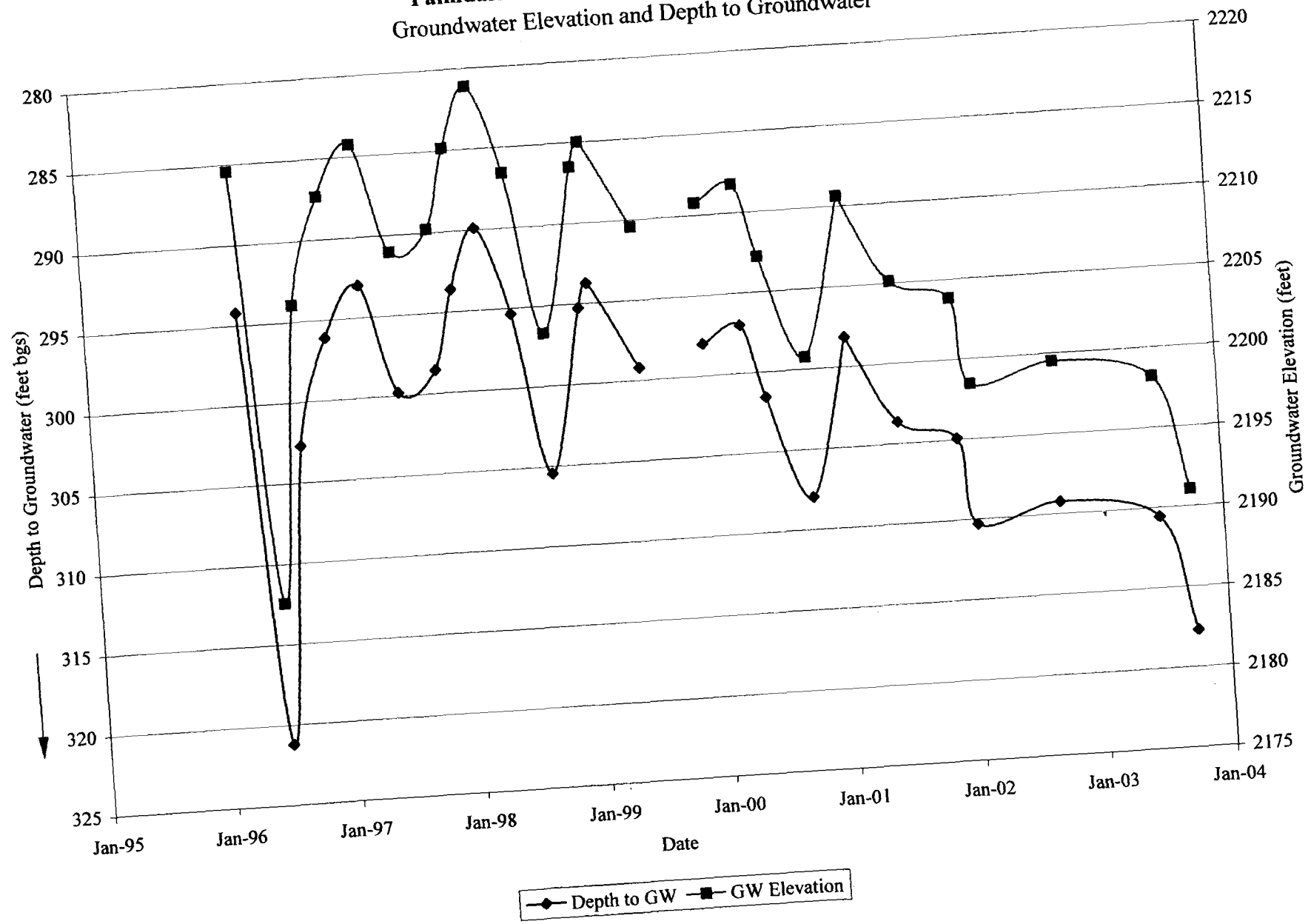


FIGURE 6.37
Palmdale Water Reclamation Plant MW 16
Chloride and TDS

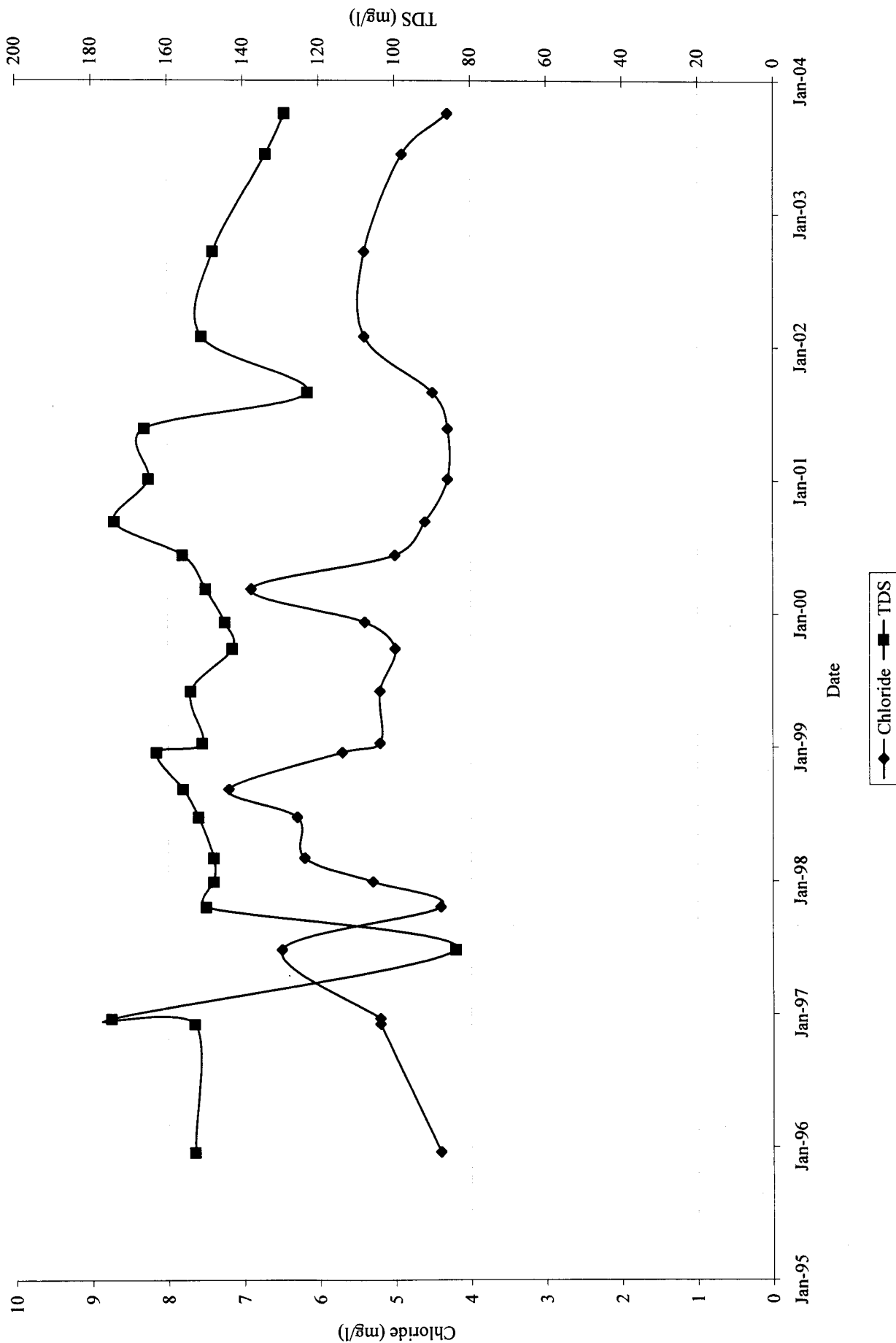


FIGURE 6.38
Palmdale Water Reclamation Plant MW 16
MBAS, NH₃, TKN, NO₃⁻

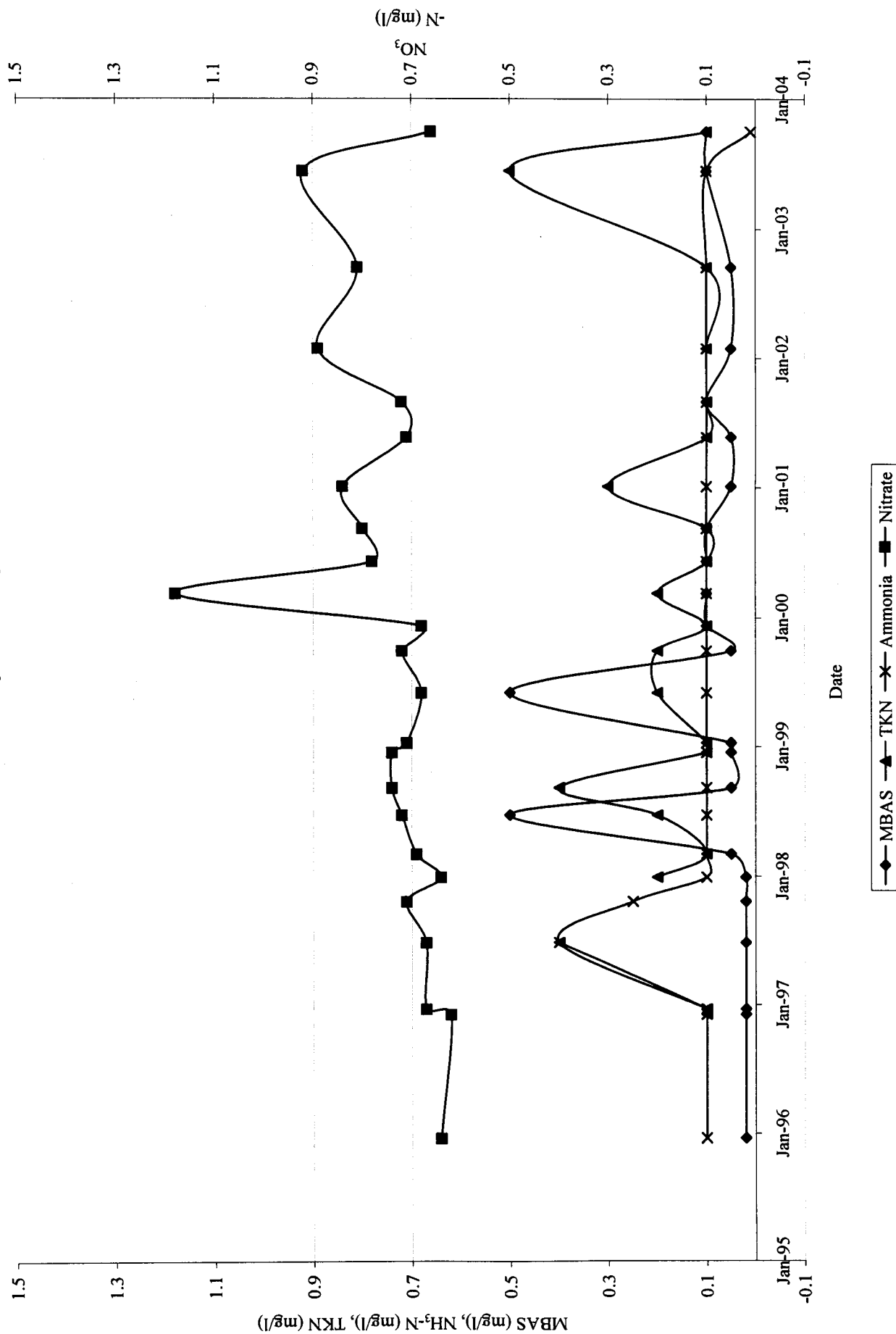


FIGURE 6.39
Palmdale Water Reclamation Plant MW 16
Groundwater Elevation and Depth to Groundwater

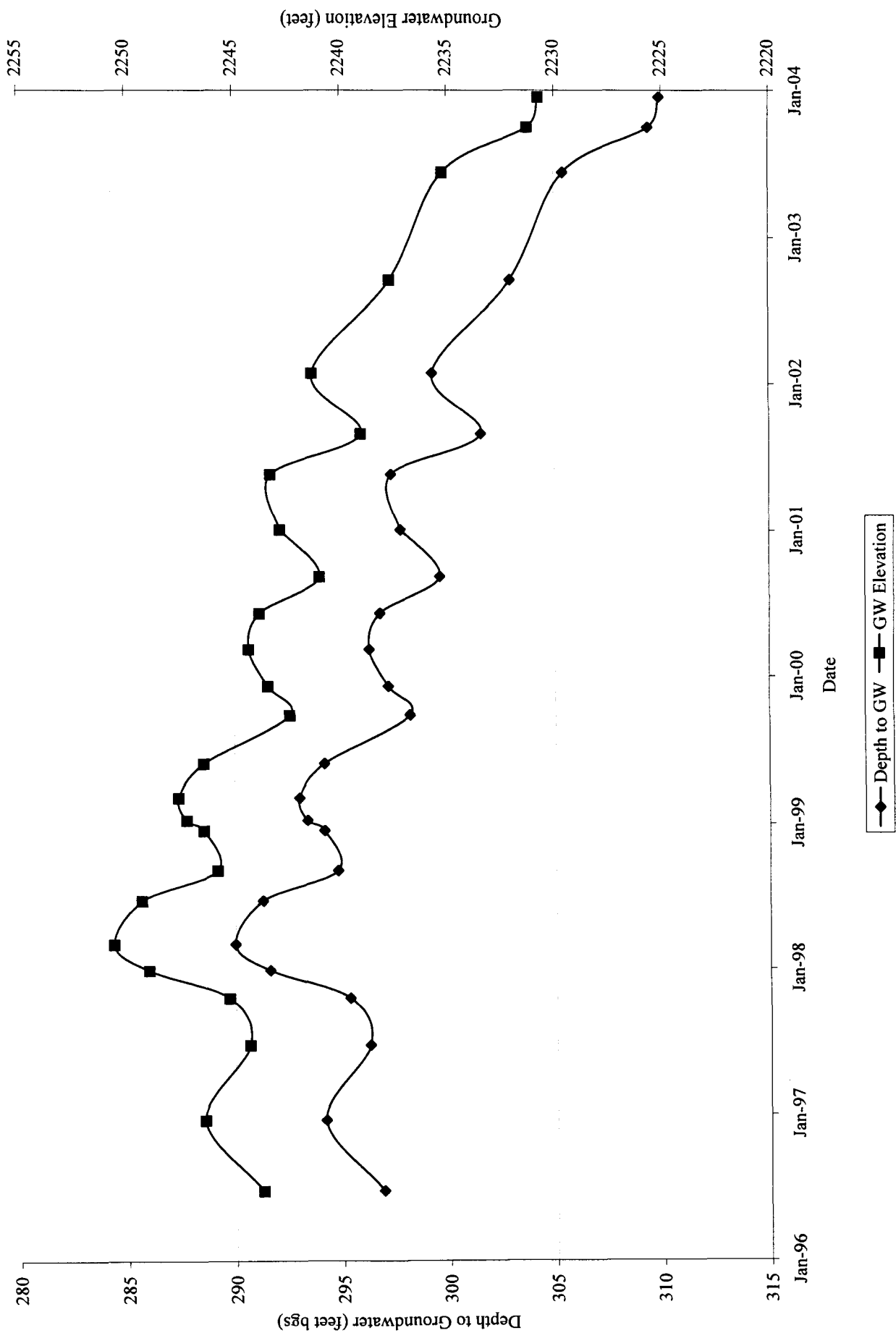


FIGURE 6.40
Palmdale Water Reclamation Plant MW 17
 Chloride and TDS

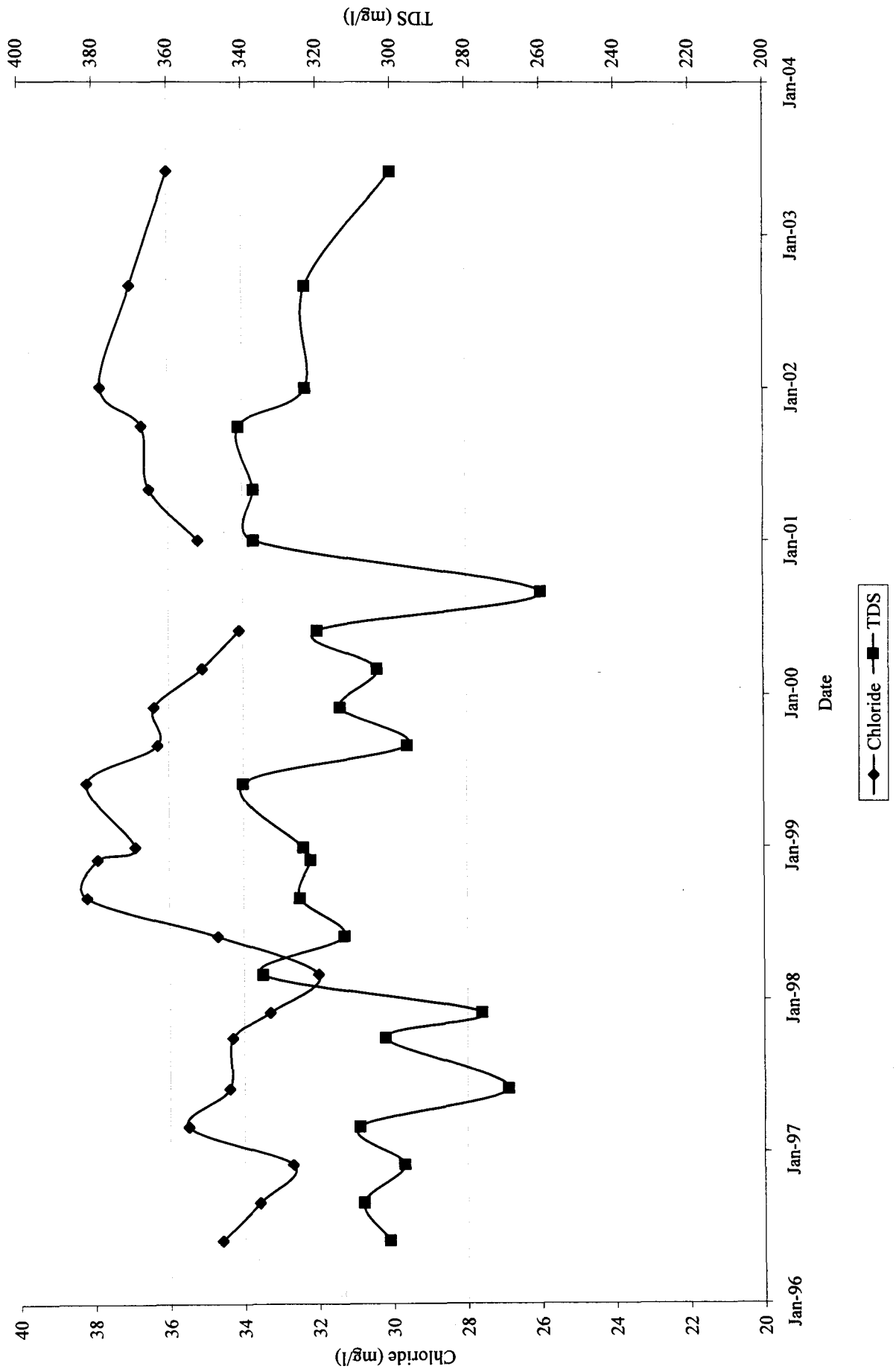


FIGURE 6.41
Palmdale Water Reclamation Plant MW 17
 MBAS, NH_3 , TKN, NO_3^-

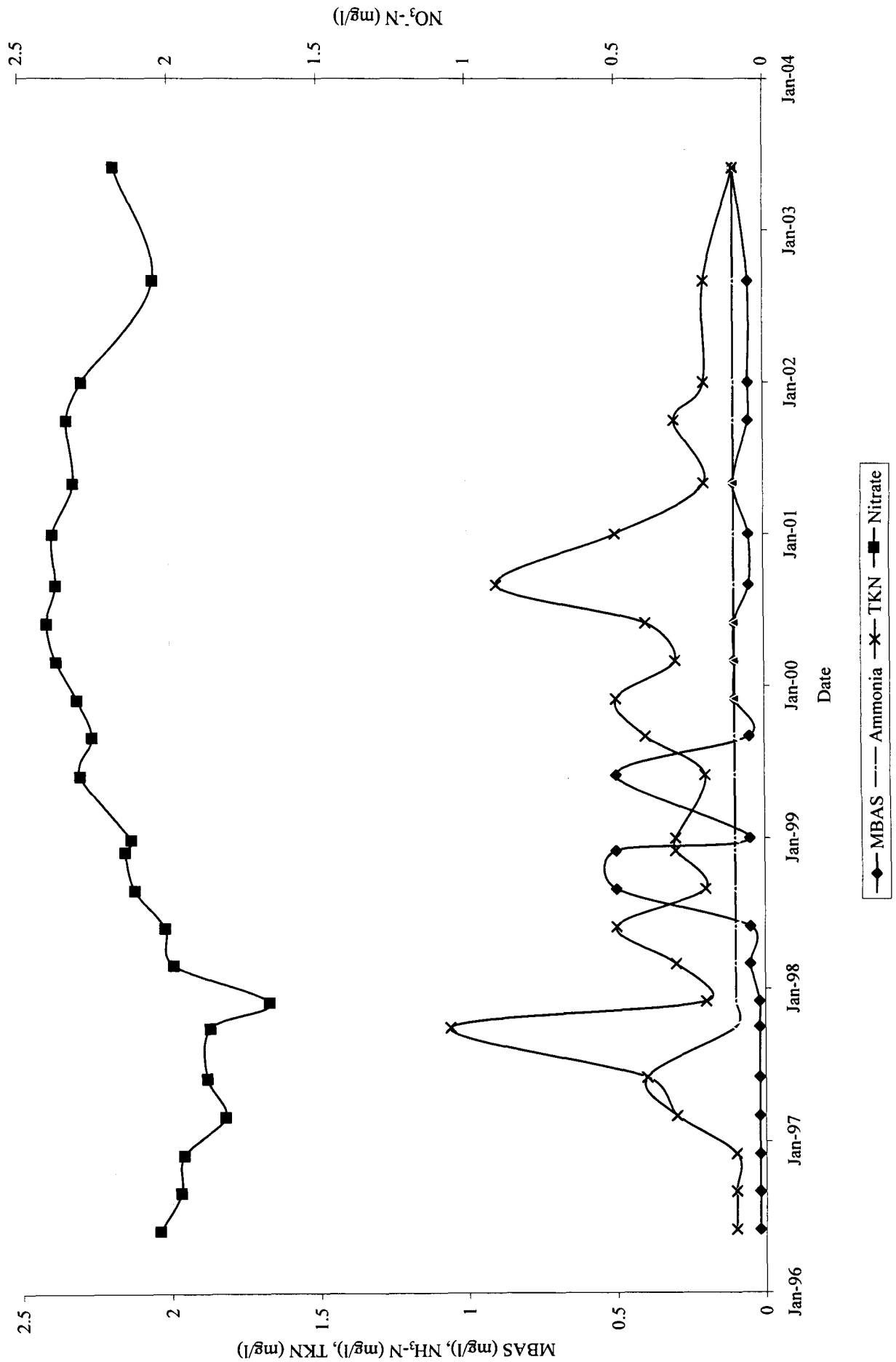


FIGURE 6.42
Palmdale Water Reclamation Plant MW 17
 Groundwater Elevation and Depth to Groundwater

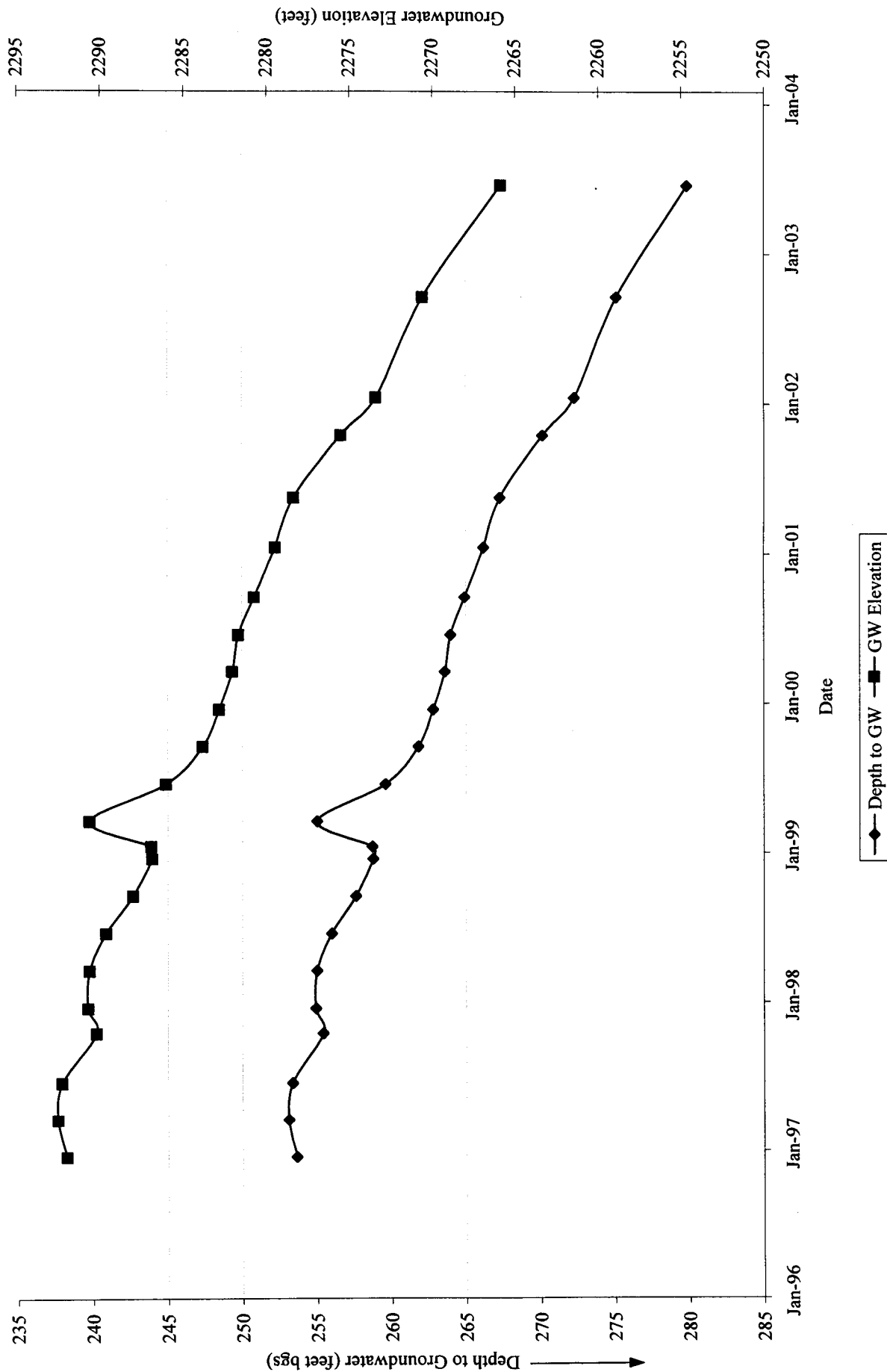


FIGURE 6.43
Palmdale Water Reclamation Plant MW 18
Chloride and TDS

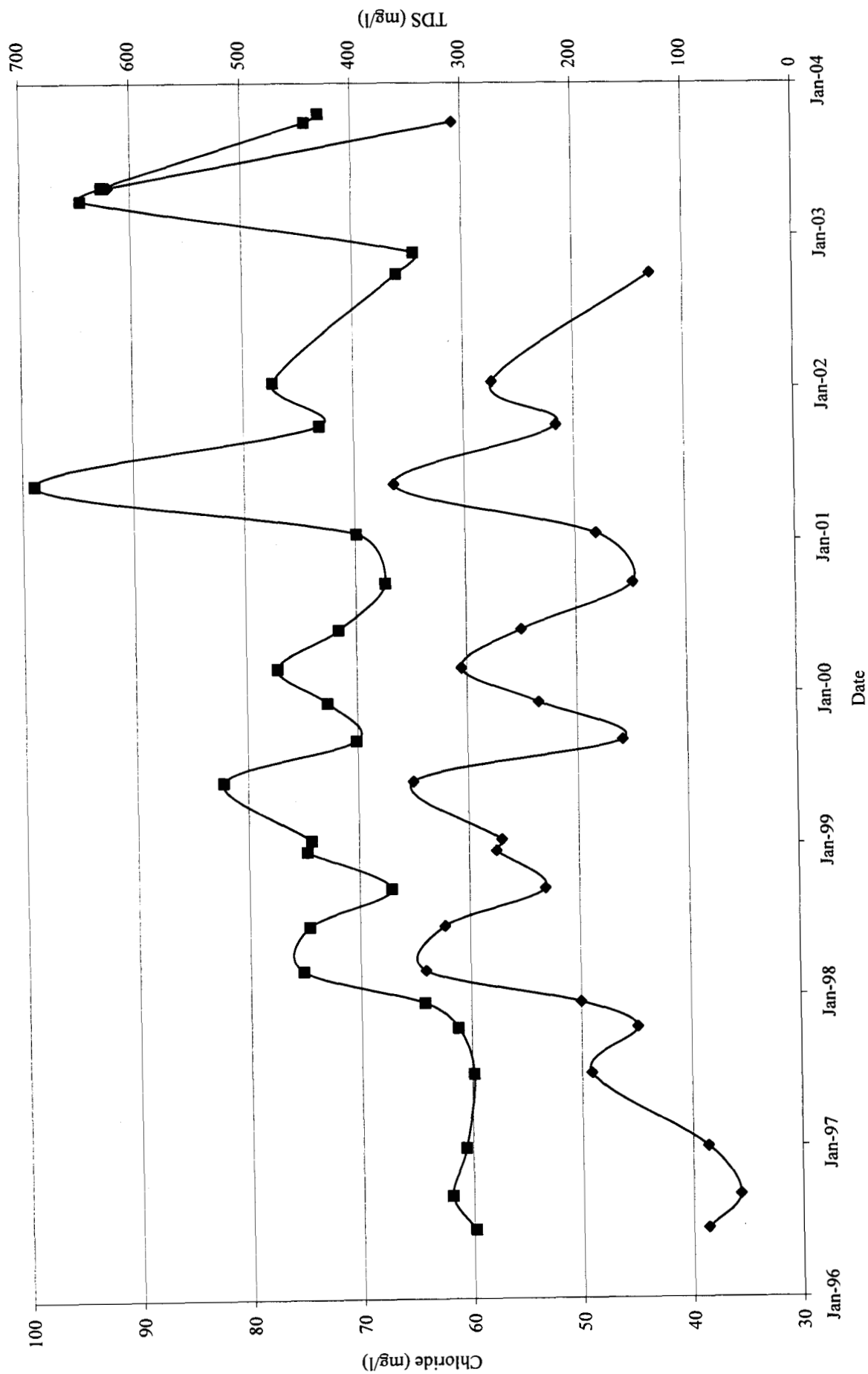


FIGURE 6.44
Palmdale Water Reclamation Plant MW 18
MBAS, NH₃, TKN, NO₃⁻

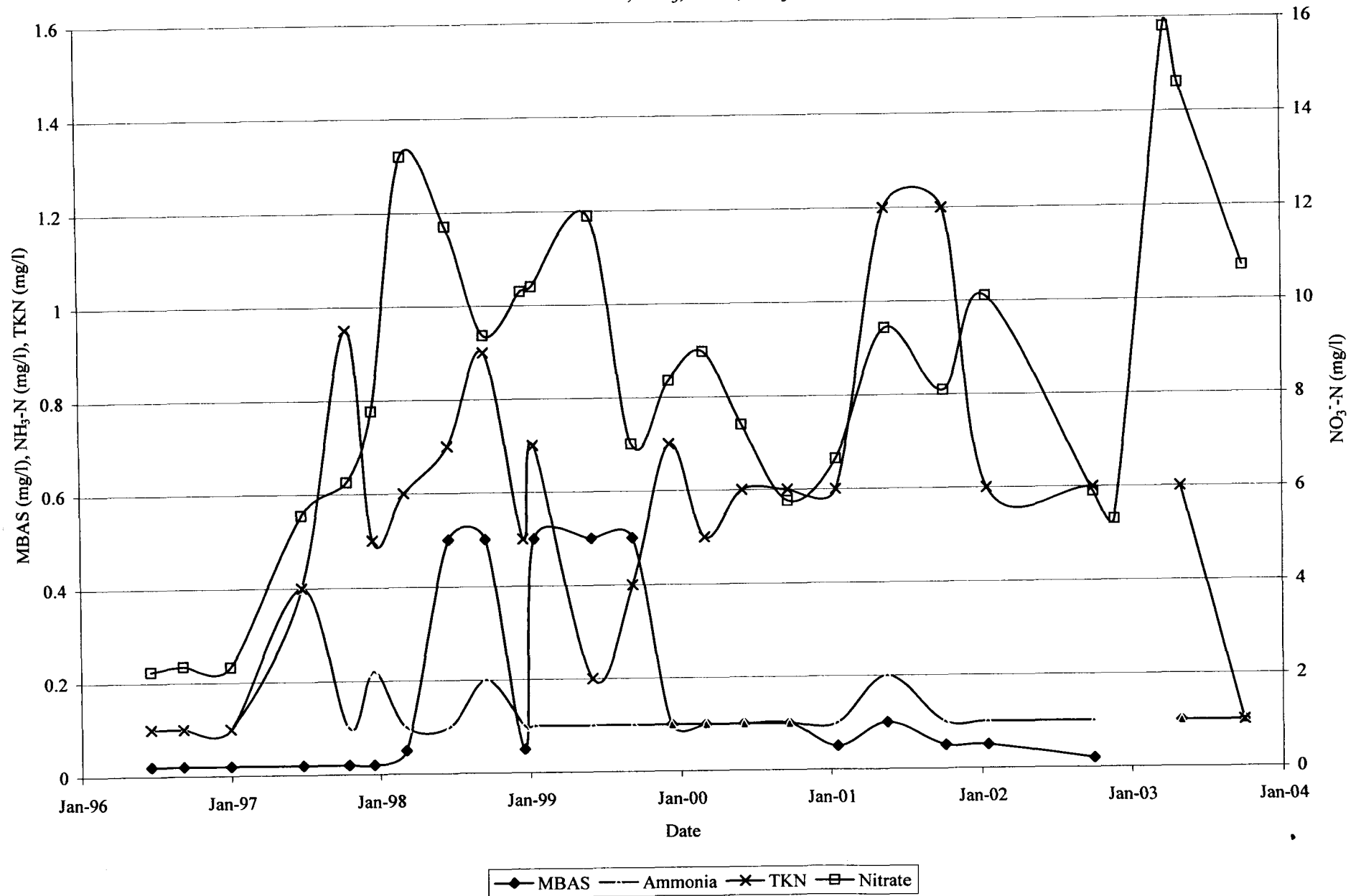


FIGURE 6.45
Palmdale Water Reclamation Plant MW 18
 Groundwater Elevation and Depth to Groundwater

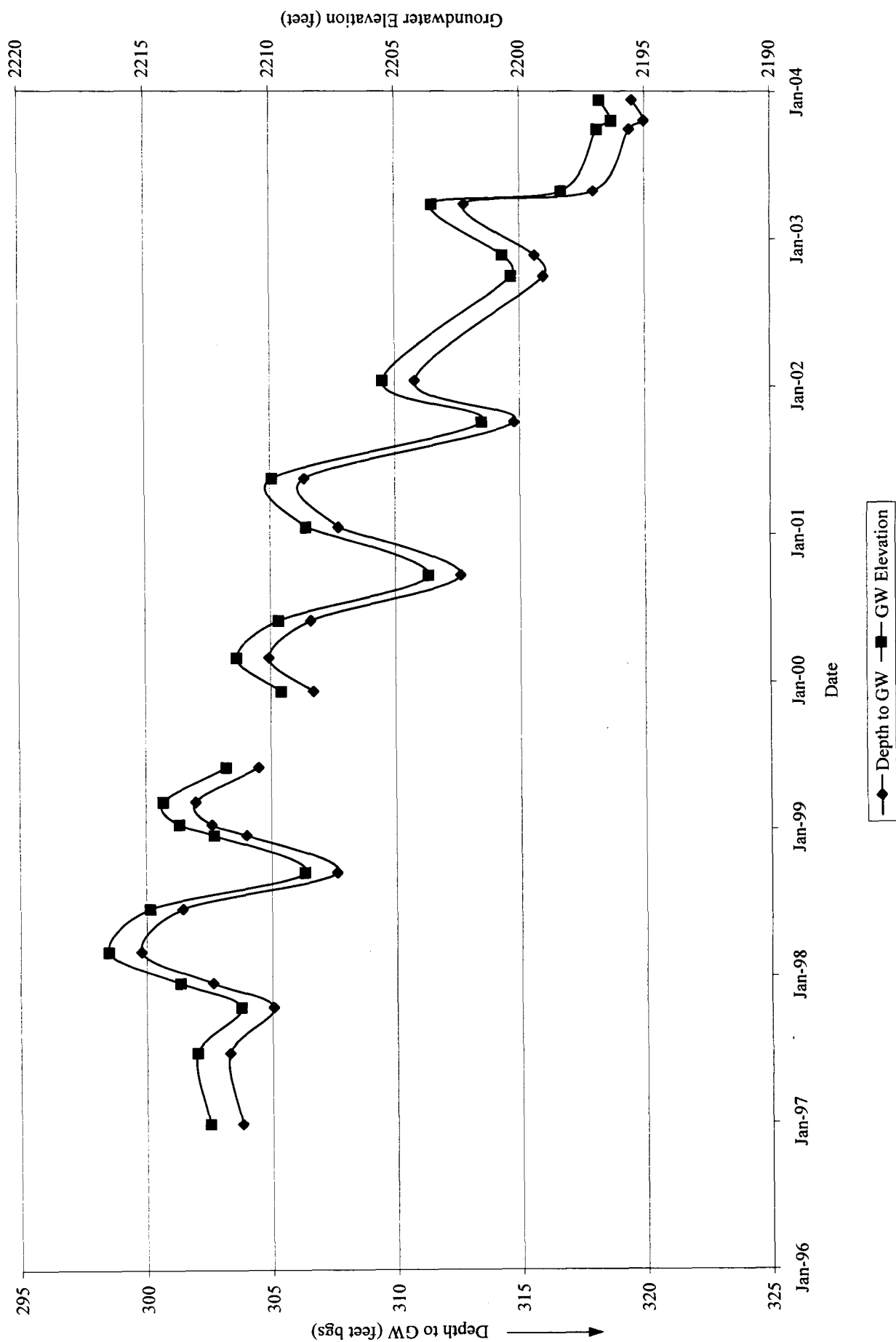


FIGURE 6.46
Palmdale Water Reclamation Plant MW19
Chloride and TDS

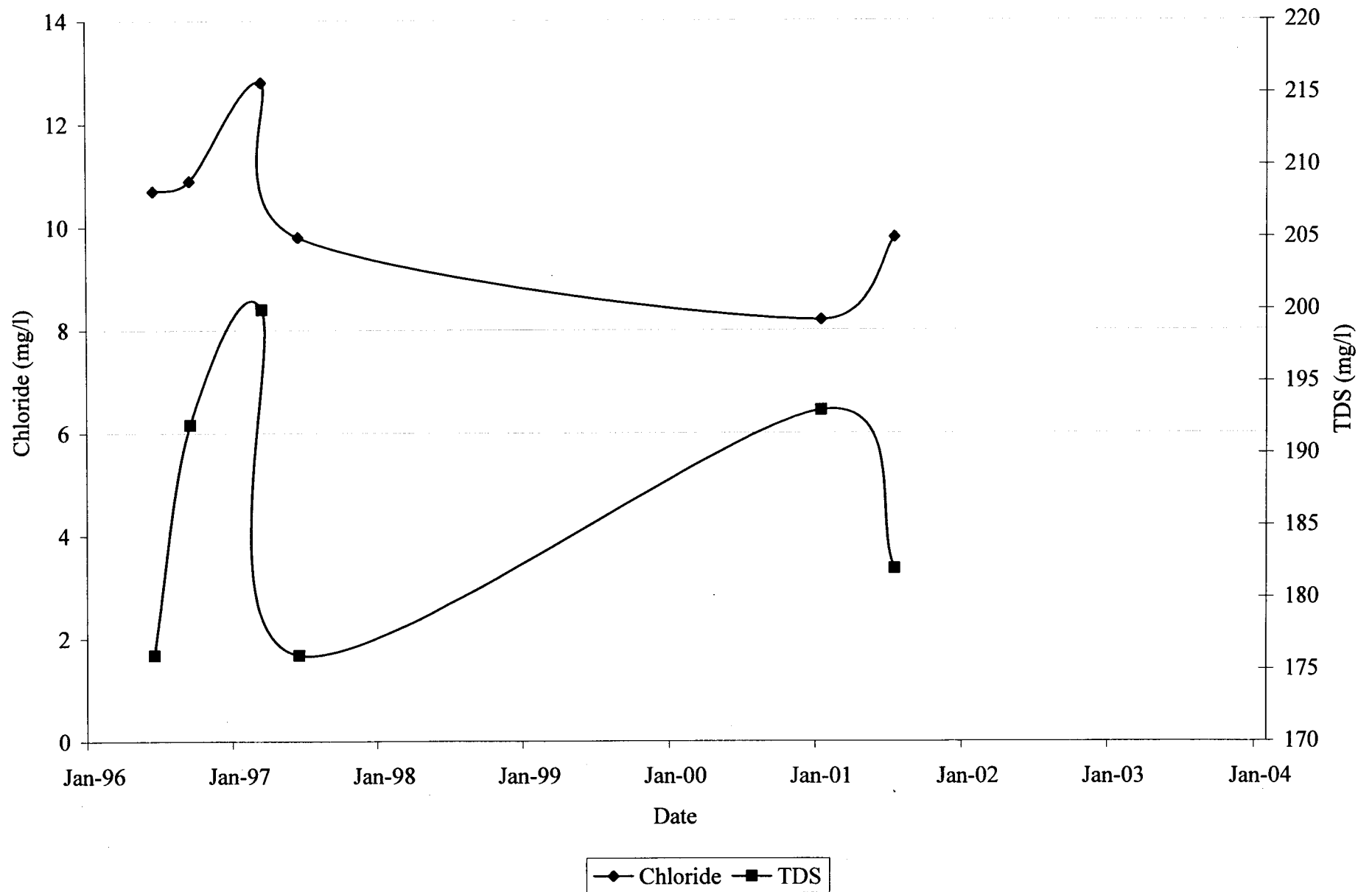


FIGURE 6.47
Palmdale Water Reclamation Plant MW19
MBAS, NH₃, TKN, NO₃⁻

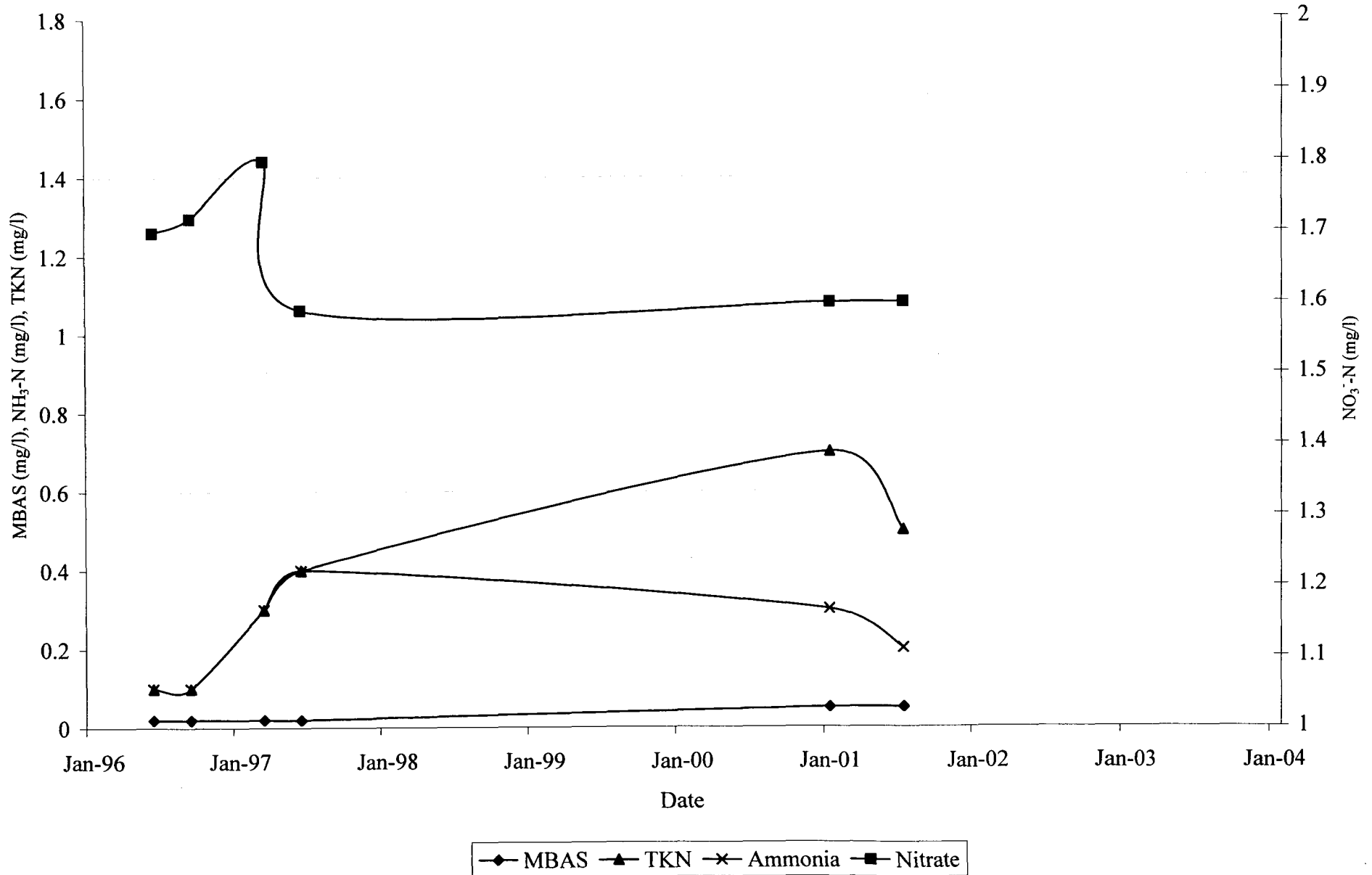


FIGURE 6.48
Palmdale Water Reclamation Plant MW19
Groundwater Elevation and Depth to Groundwater

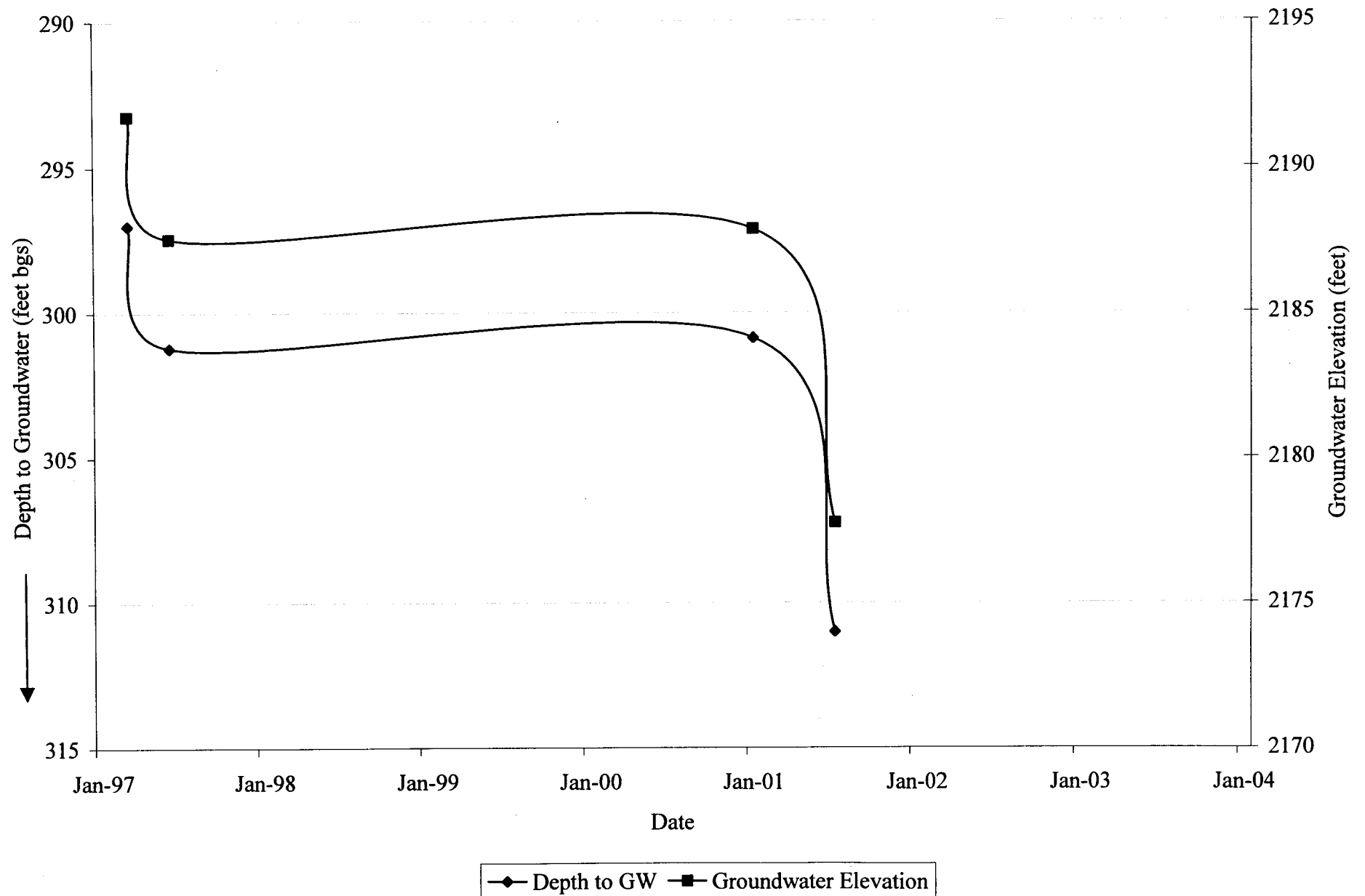


FIGURE 6.49
Palmdale Water Reclamation Plant MW 20
 Chloride and TDS

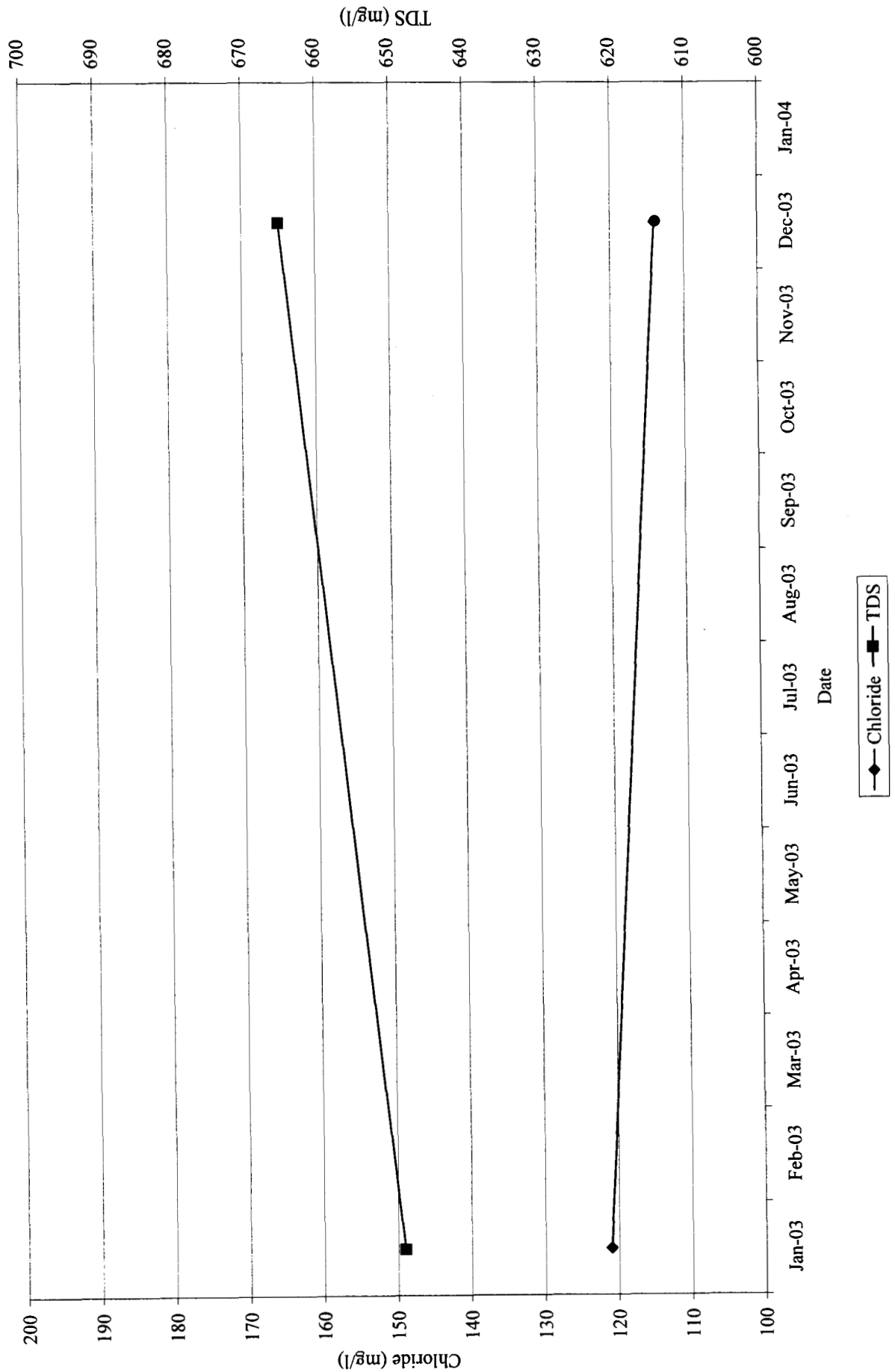


FIGURE 6.50
Palmdale Water Reclamation Plant MW 20
MBAS, NH₃, TKN, NO₃⁻

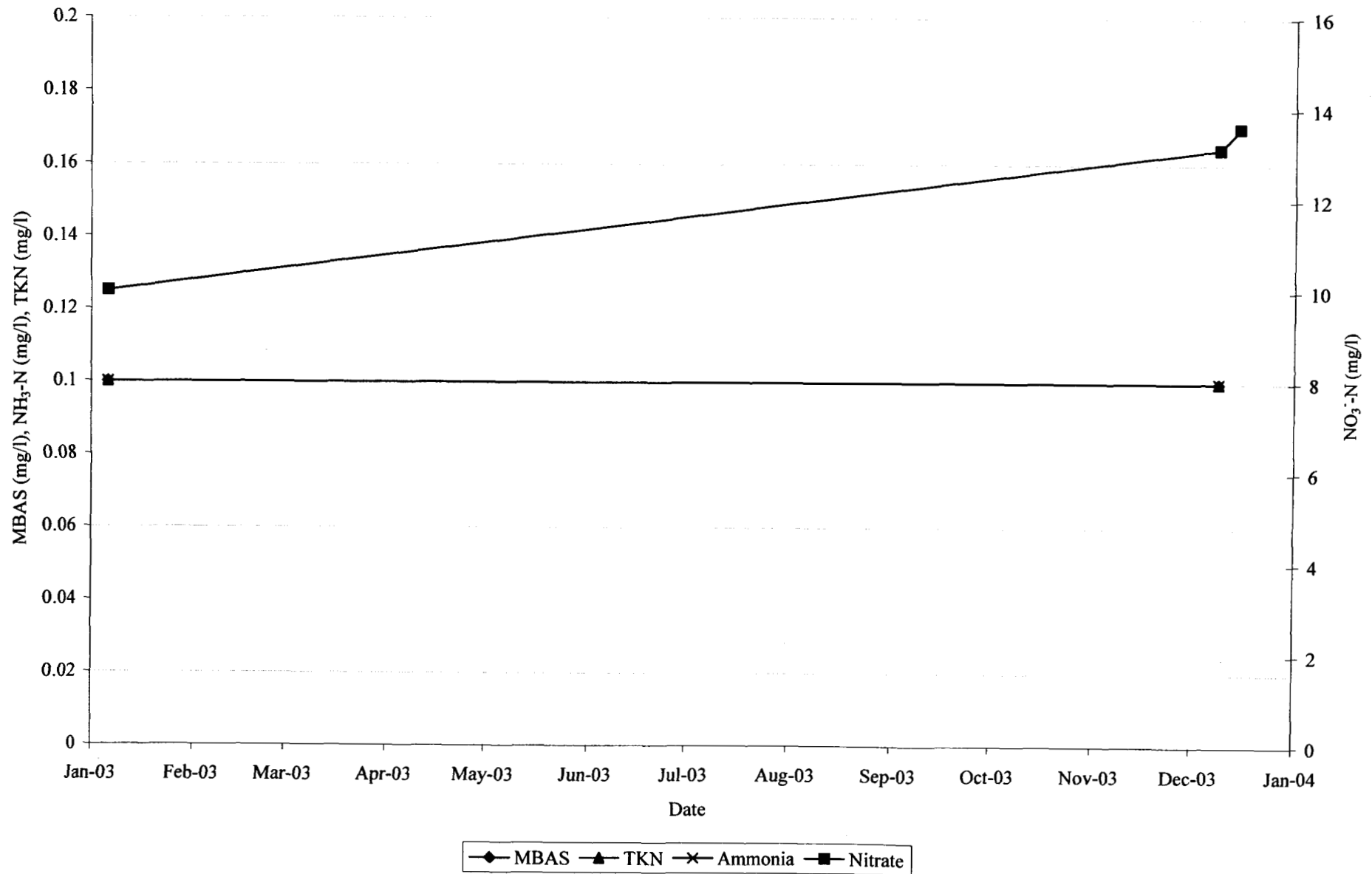


FIGURE 6.51
Palmdale Water Reclamation Plant MW 20
Groundwater Elevation and Depth to Groundwater

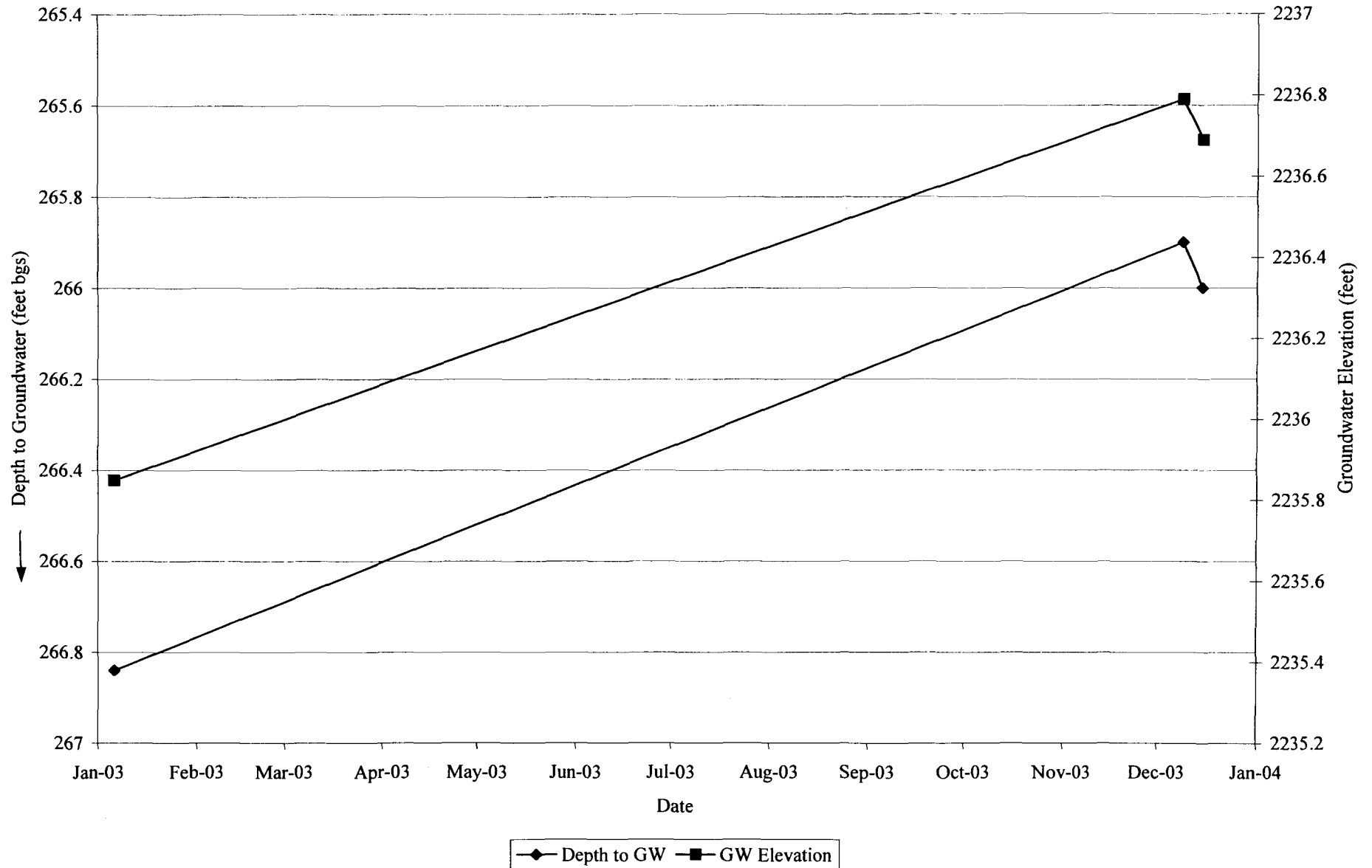


FIGURE 6.52
Palmdale Water Reclamation Plant MW 22
Chloride and TDS

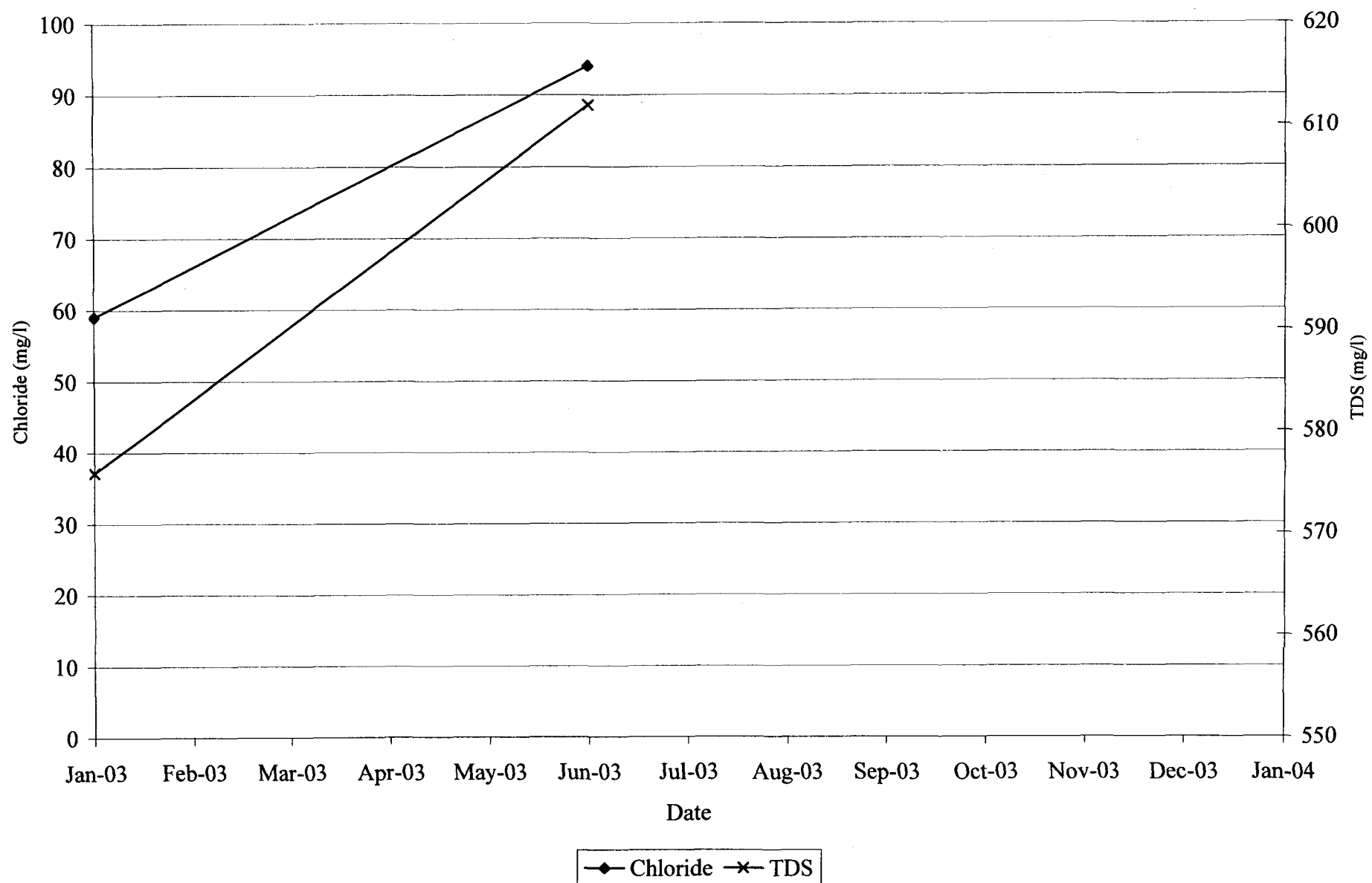


FIGURE 6.53
Palmdale Water Reclamation Plant MW 22
MBAS, NH₃, TKN, NO₃⁻

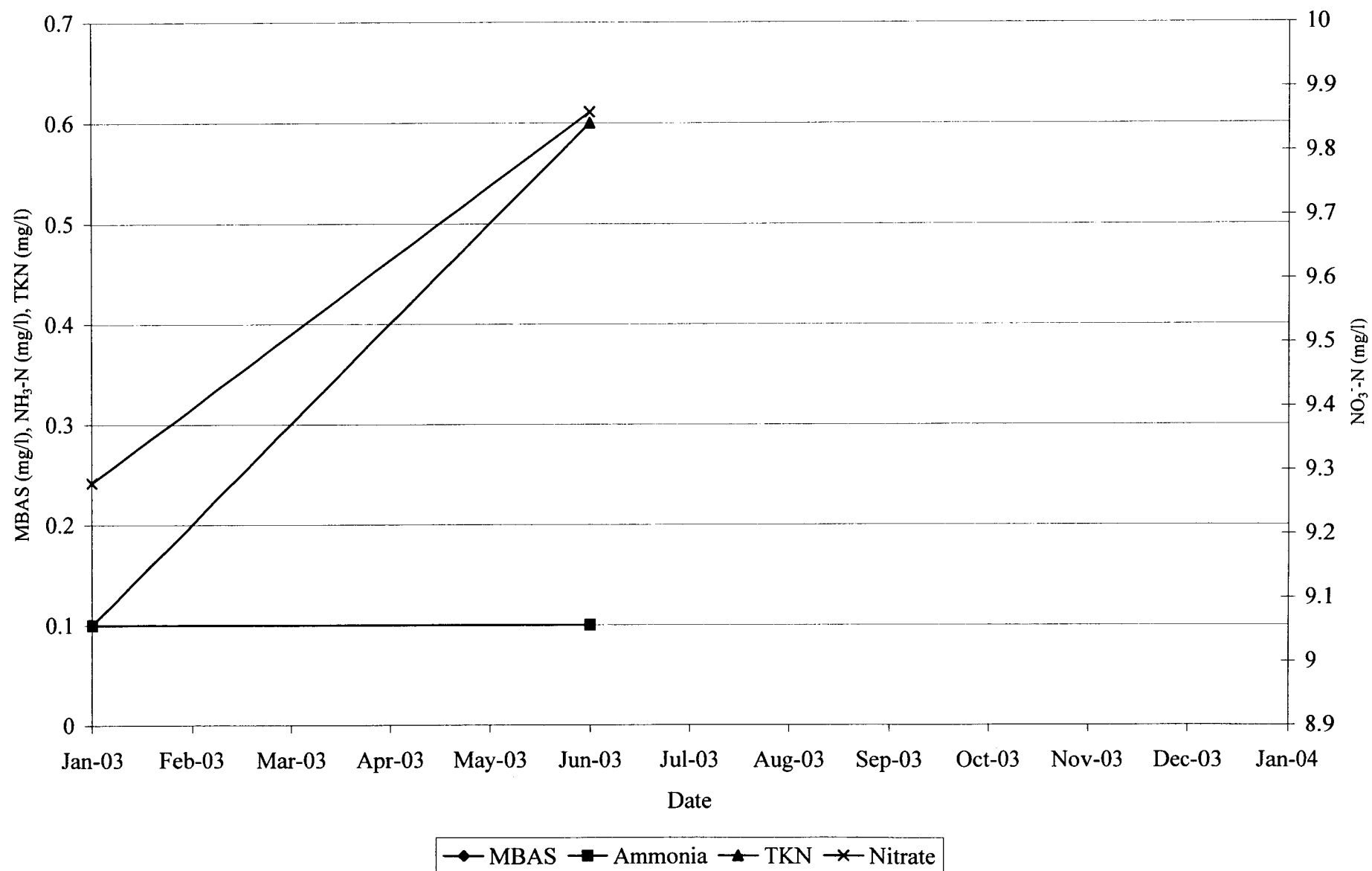


FIGURE 6.54
Palmdale Water Reclamation Plant MW22
Groundwater Elevation and Depth to Groundwater

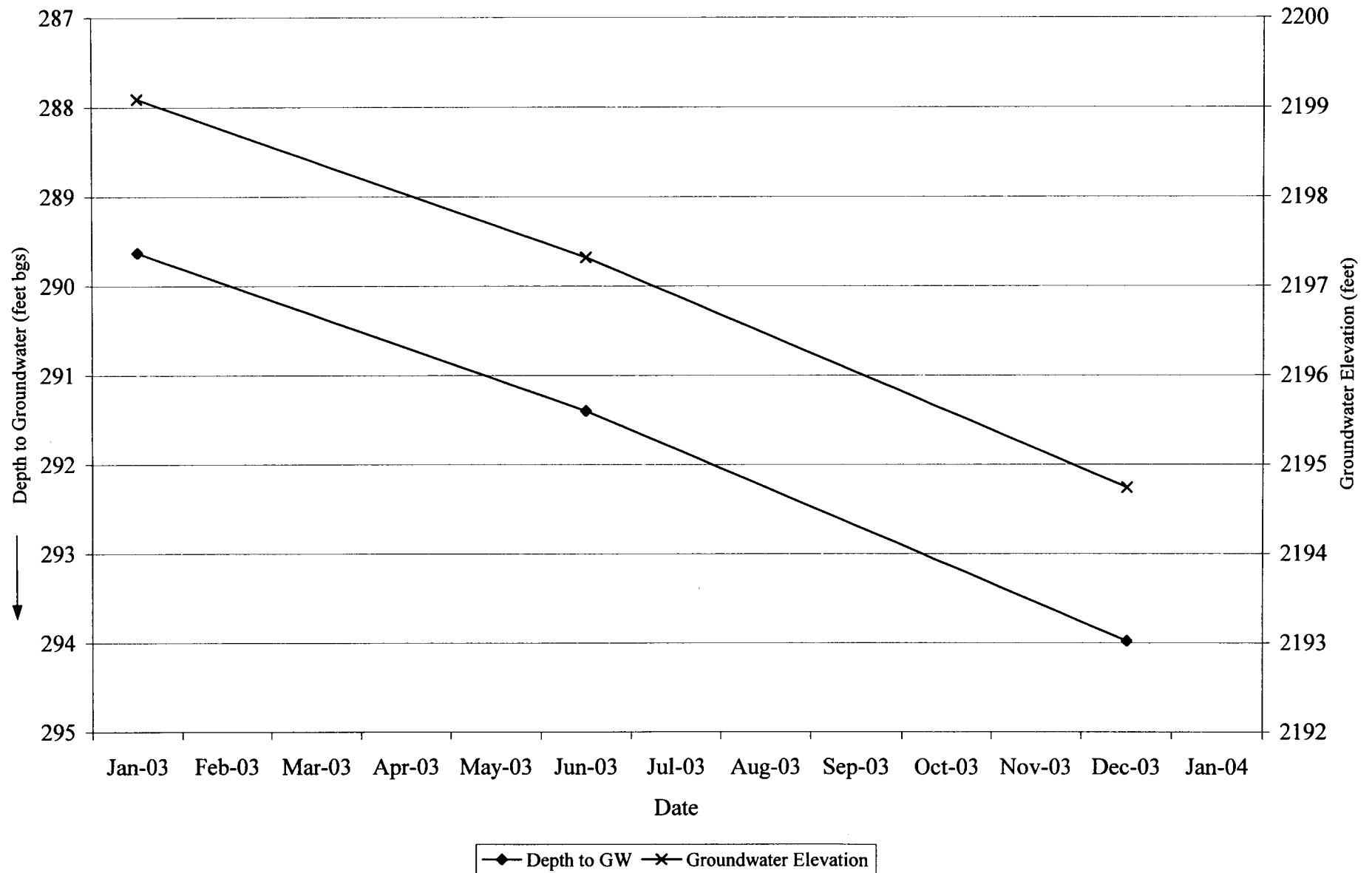


FIGURE 6.55
Palmdale Water Reclamation Plant MW 23
 Chloride and TDS

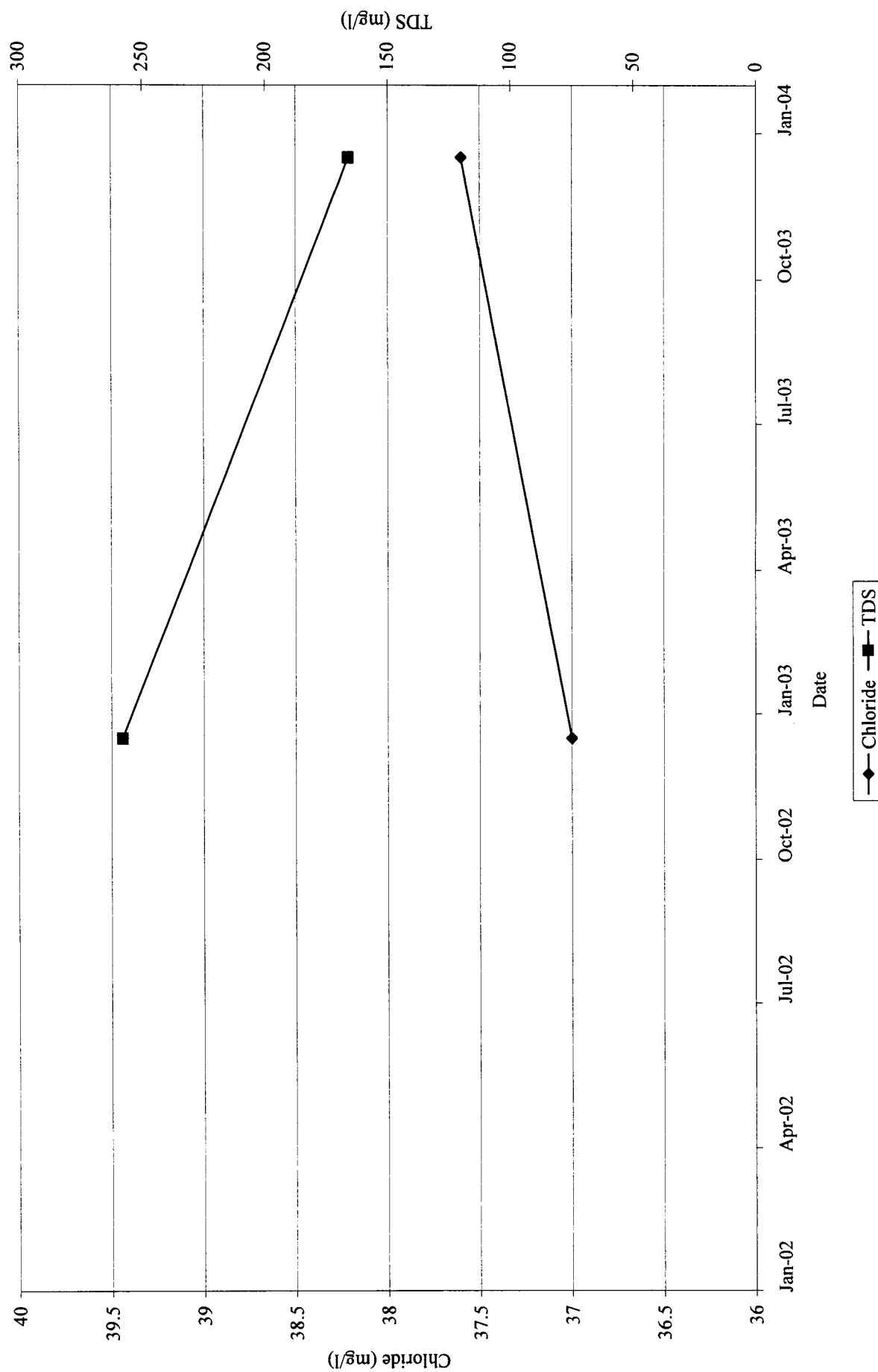


FIGURE 6.56
Palmdale Water Reclamation Plant MW 23
MBAS, NH₃, TKN, NO₃⁻

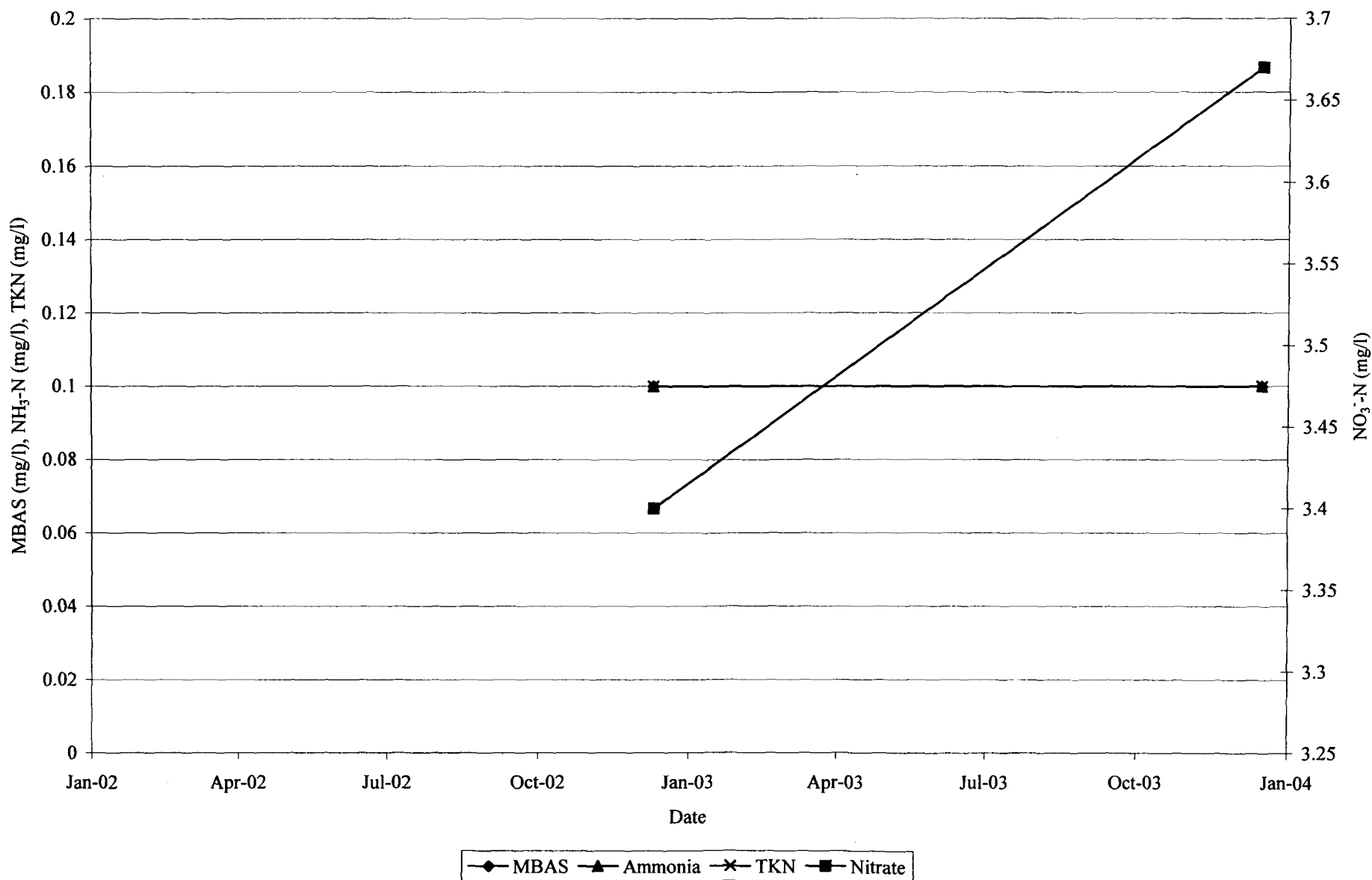


FIGURE 6.57
Palmdale Water Reclamation Plant MW 23
 Groundwater Elevation and Depth to Groundwater

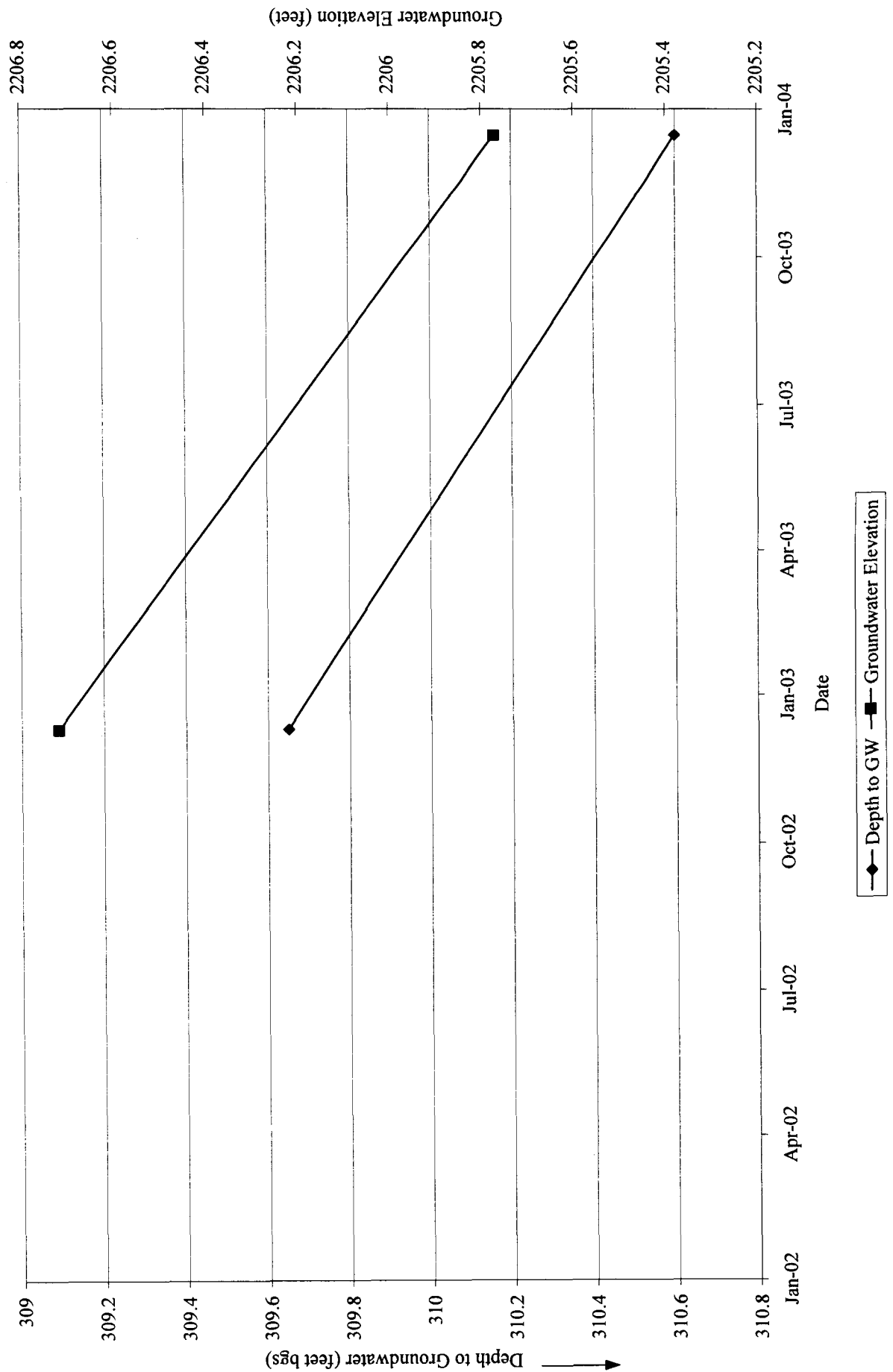


FIGURE 6.58
Palmdale Water Reclamation Plant MW 25
Chloride and TDS

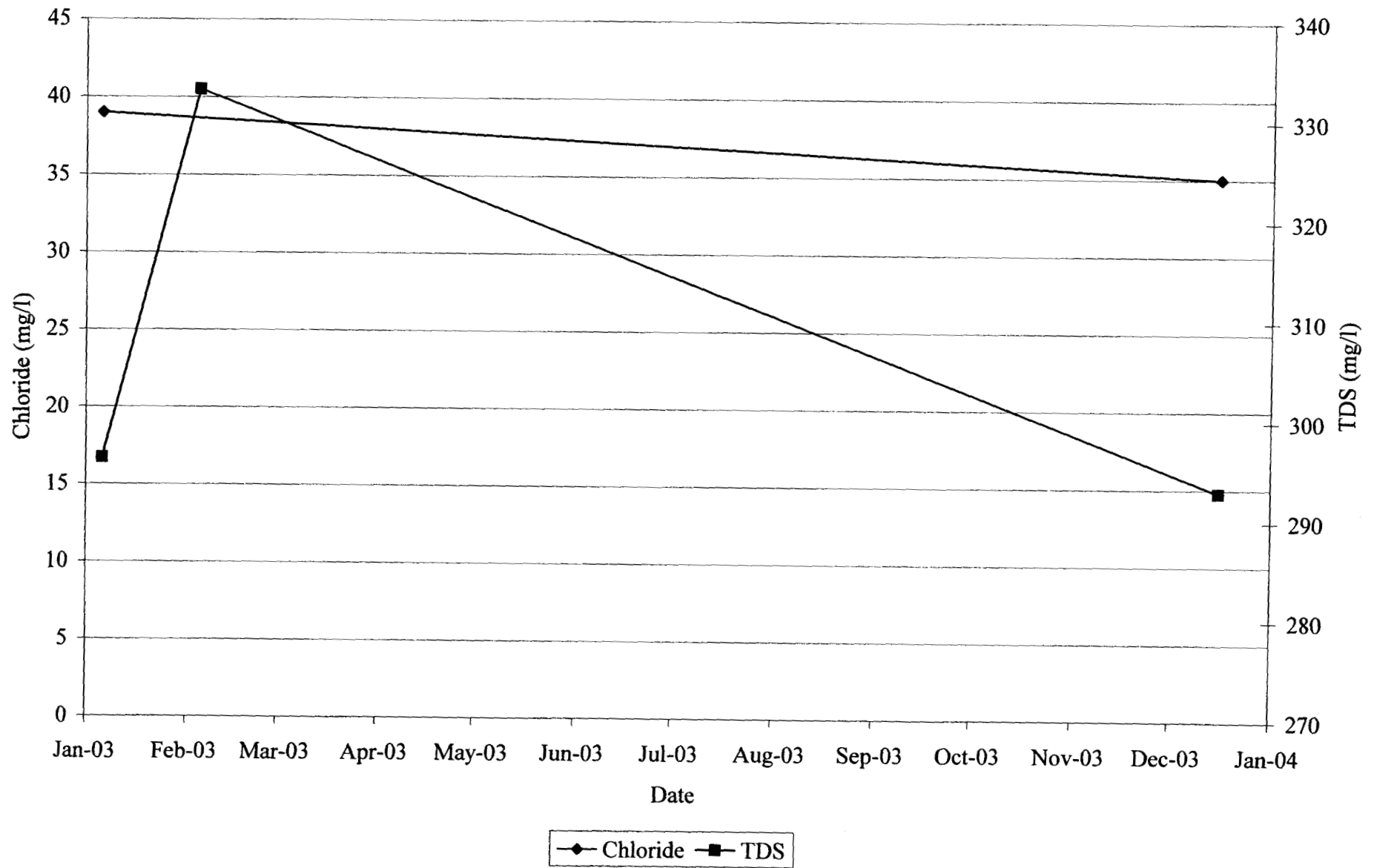


FIGURE 6.59
Palmdale Water Reclamation Plant MW 25
 MBAS, NH₃, TKN, NO₃⁻

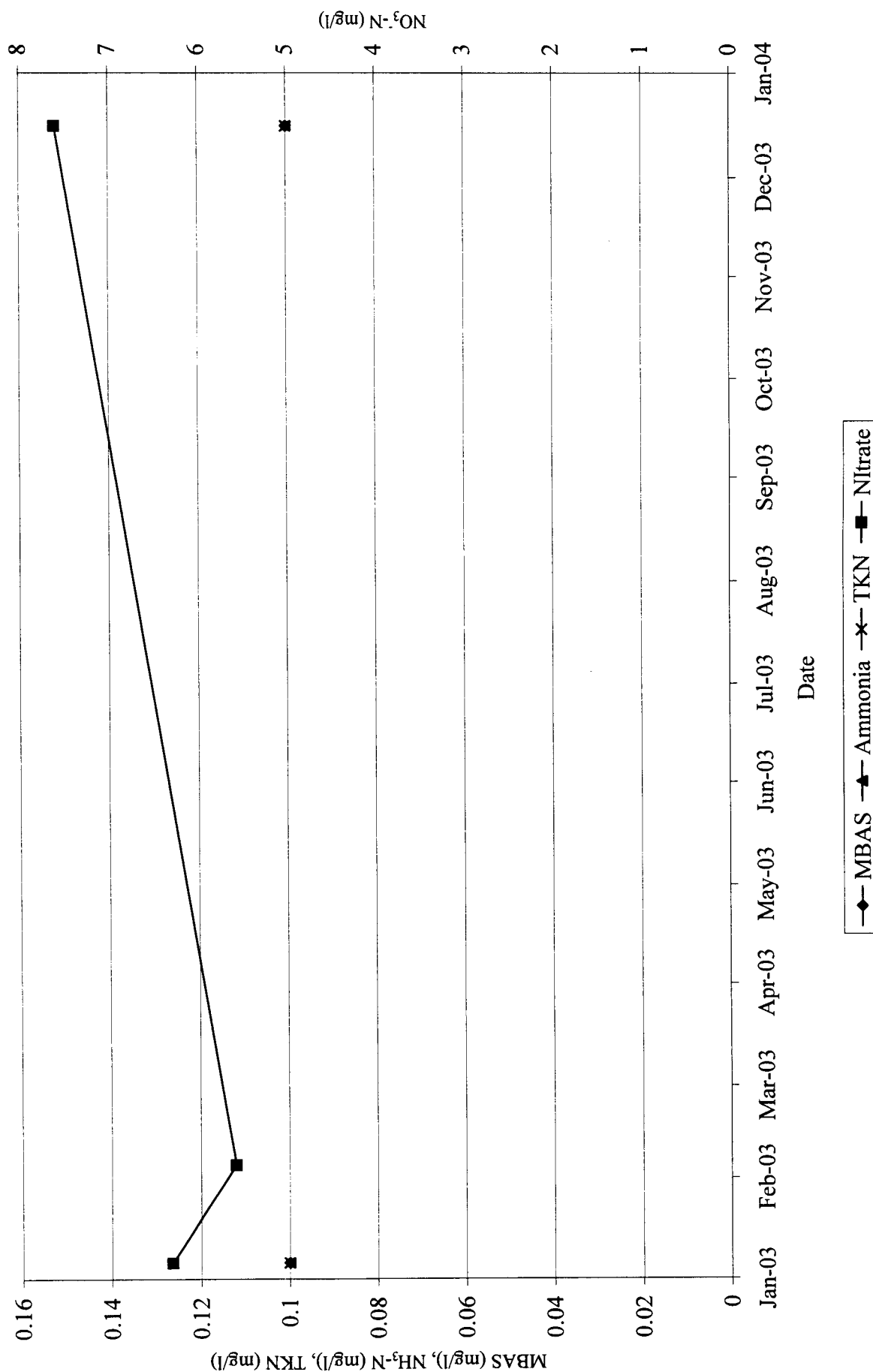


FIGURE 6.60
Palmdale Water Reclamation Plant MW 25
 Groundwater Elevation and Depth to Groundwater

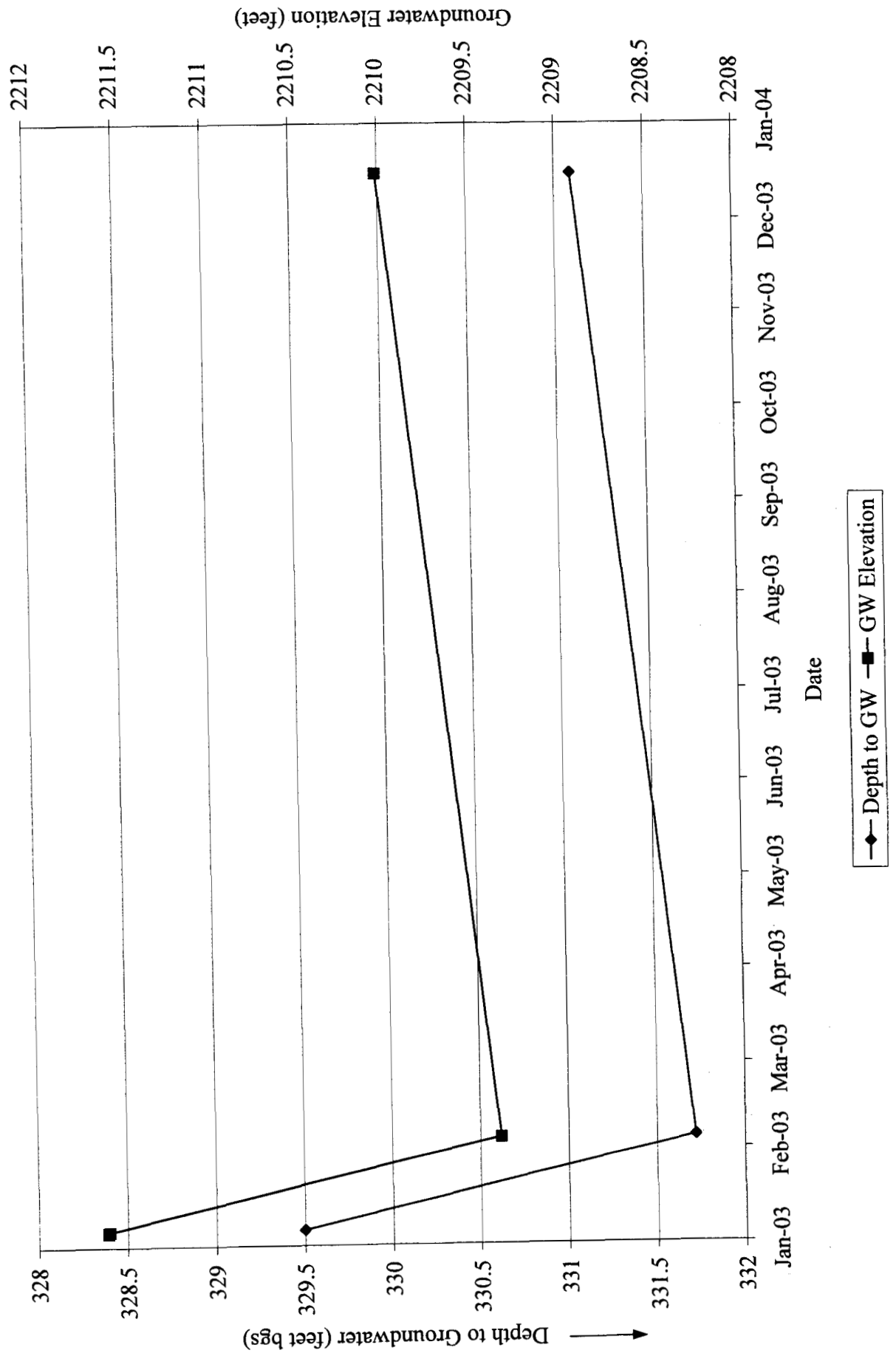


FIGURE 6.61
Palmdale Water Reclamation Plant MW 26
Chloride and TDS

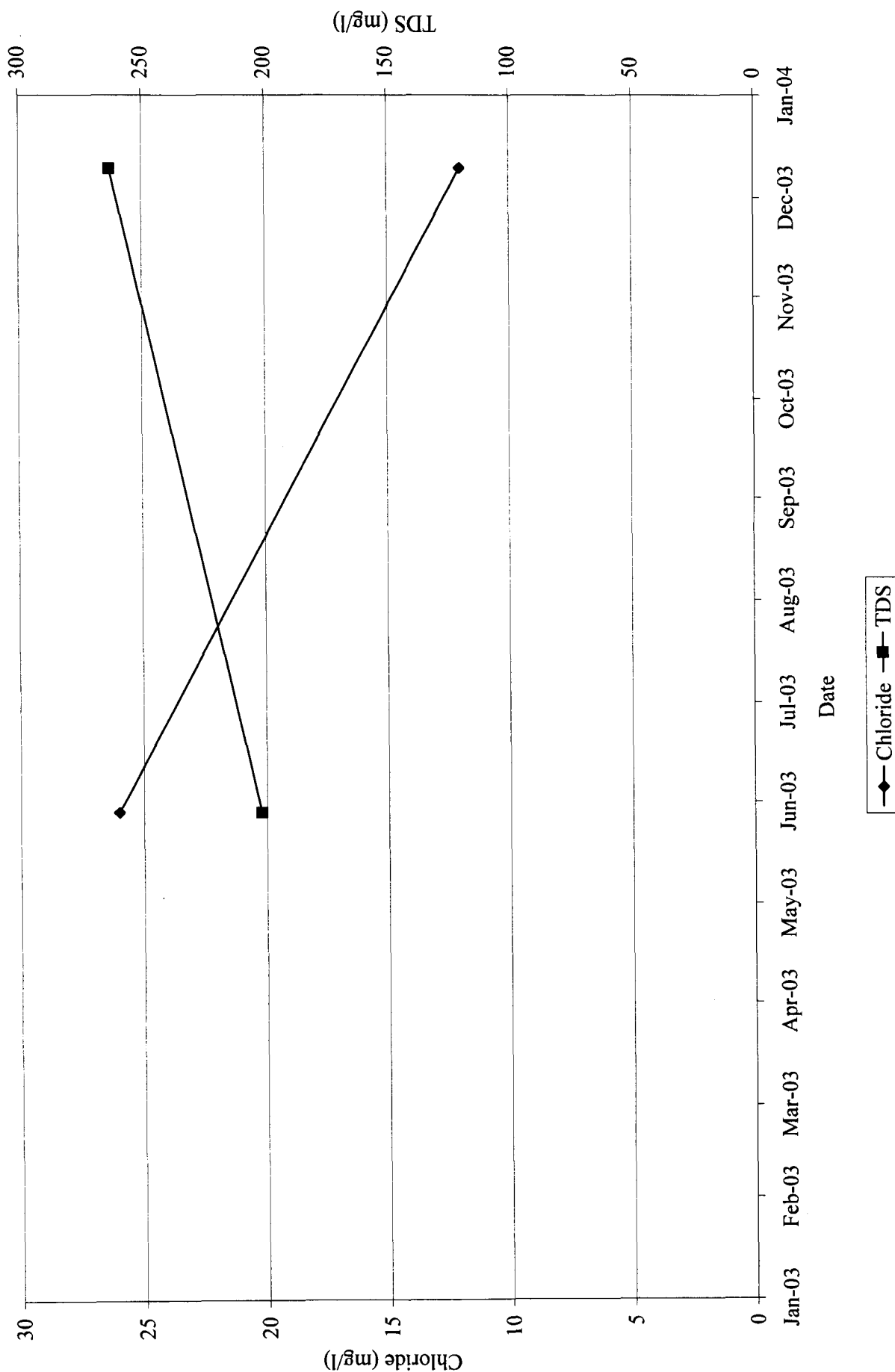


FIGURE 6.62
Palmdale Water Reclamation Plant MW 26
MBAS, NH₃, TKN, NO₃⁻

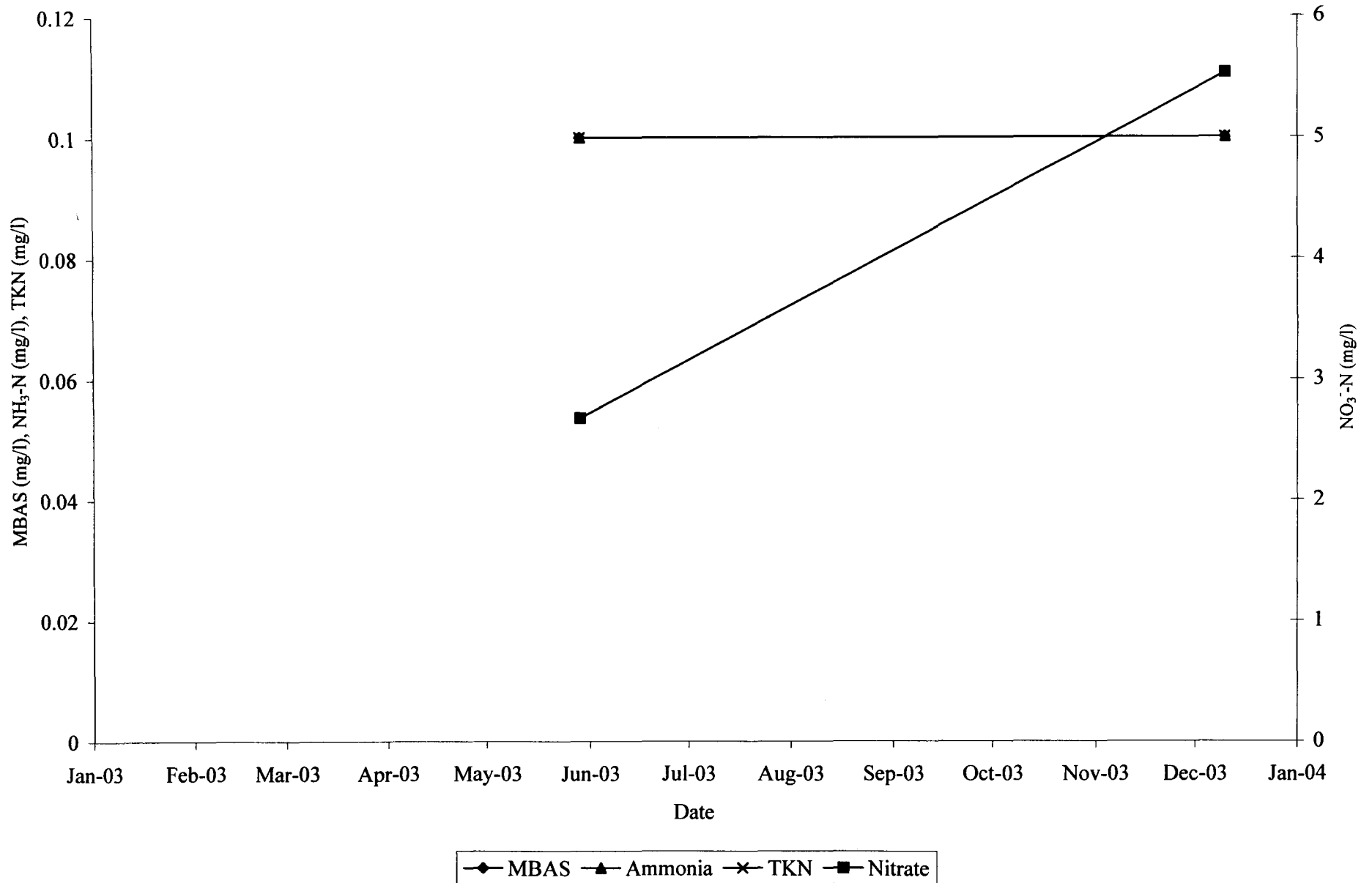


FIGURE 6.63
Palmdale Water Reclamation Plant MW 26
Groundwater Elevation and Depth to Groundwater

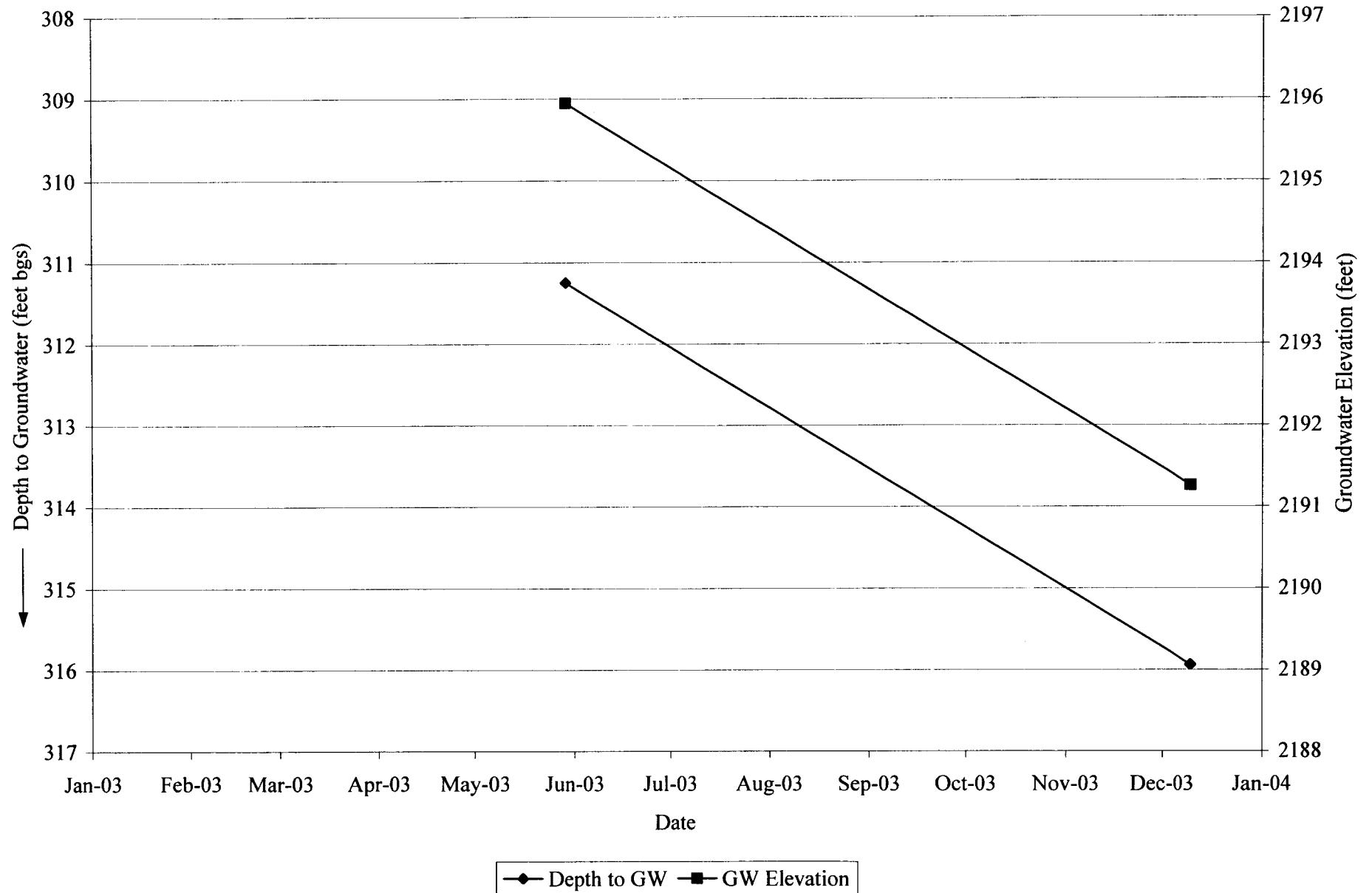


FIGURE 6.64
Palmdale Water Reclamation Plant MW 27
Chloride and TDS

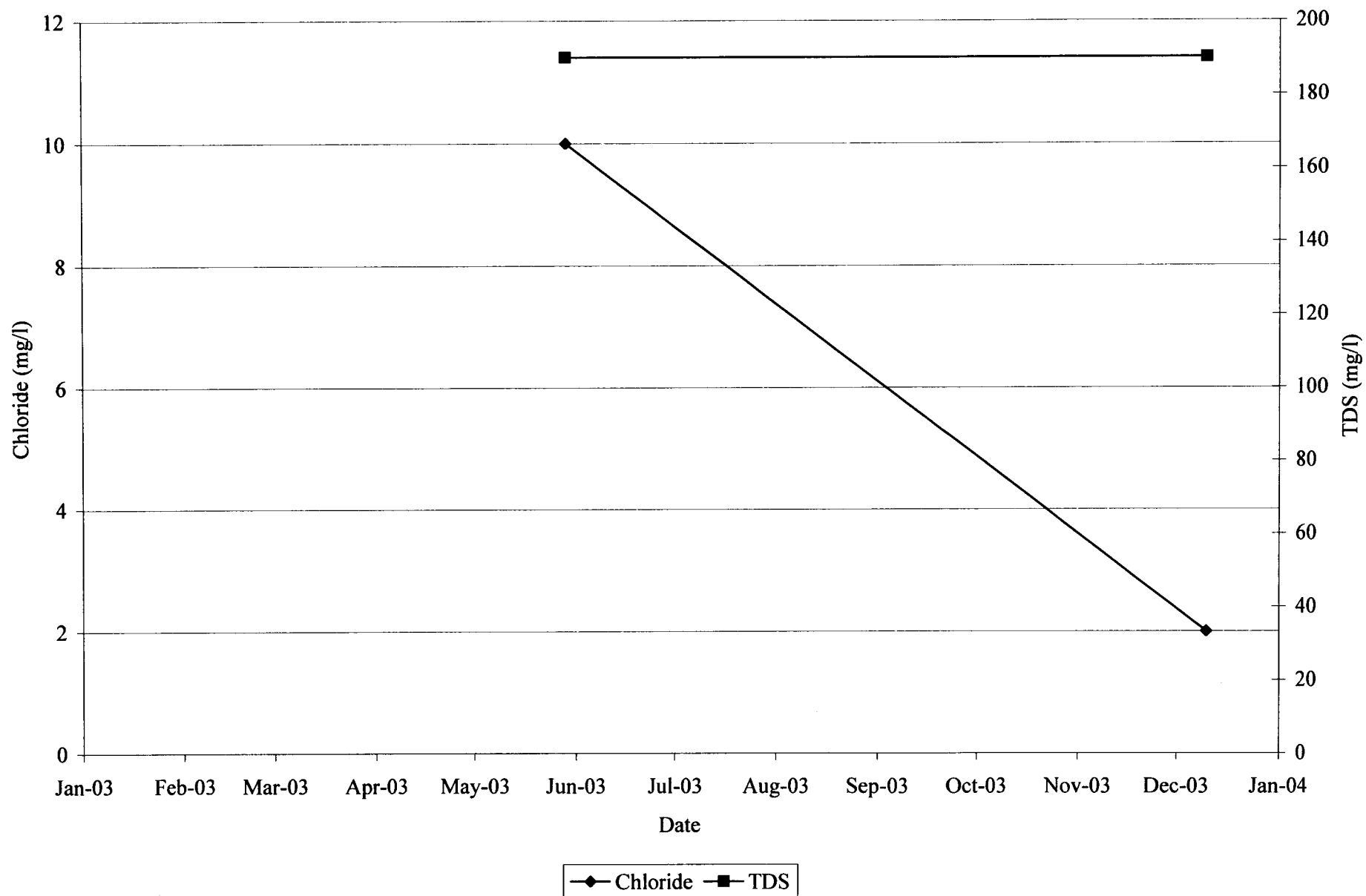


FIGURE 6.65
Palmdale Water Reclamation Plant MW 27
MBAS, NH₃, TKN, NO₃⁻

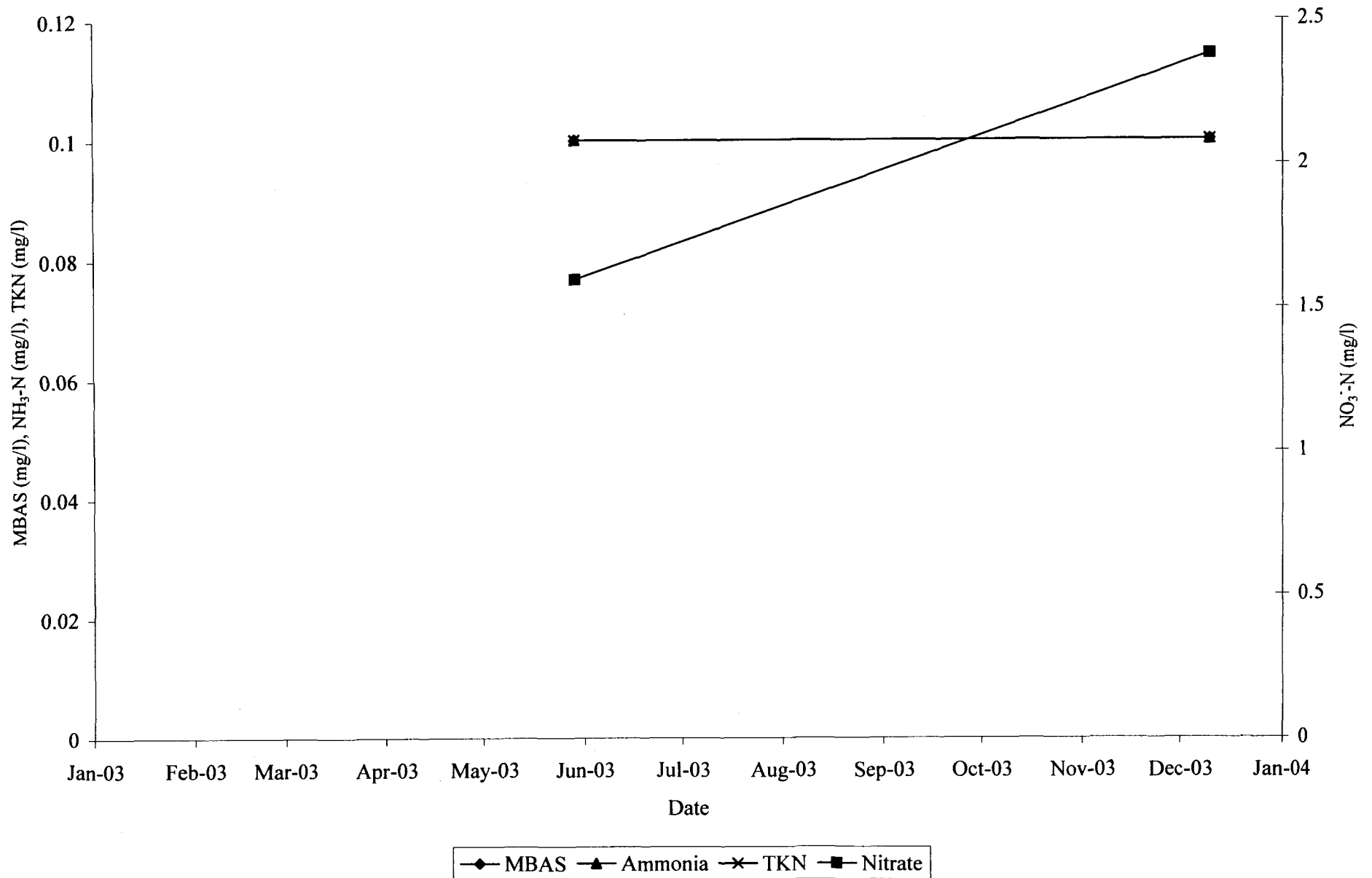


FIGURE 6.66
Palmdale Water Reclamation Plant MW 27
Groundwater Elevation and Depth to Groundwater

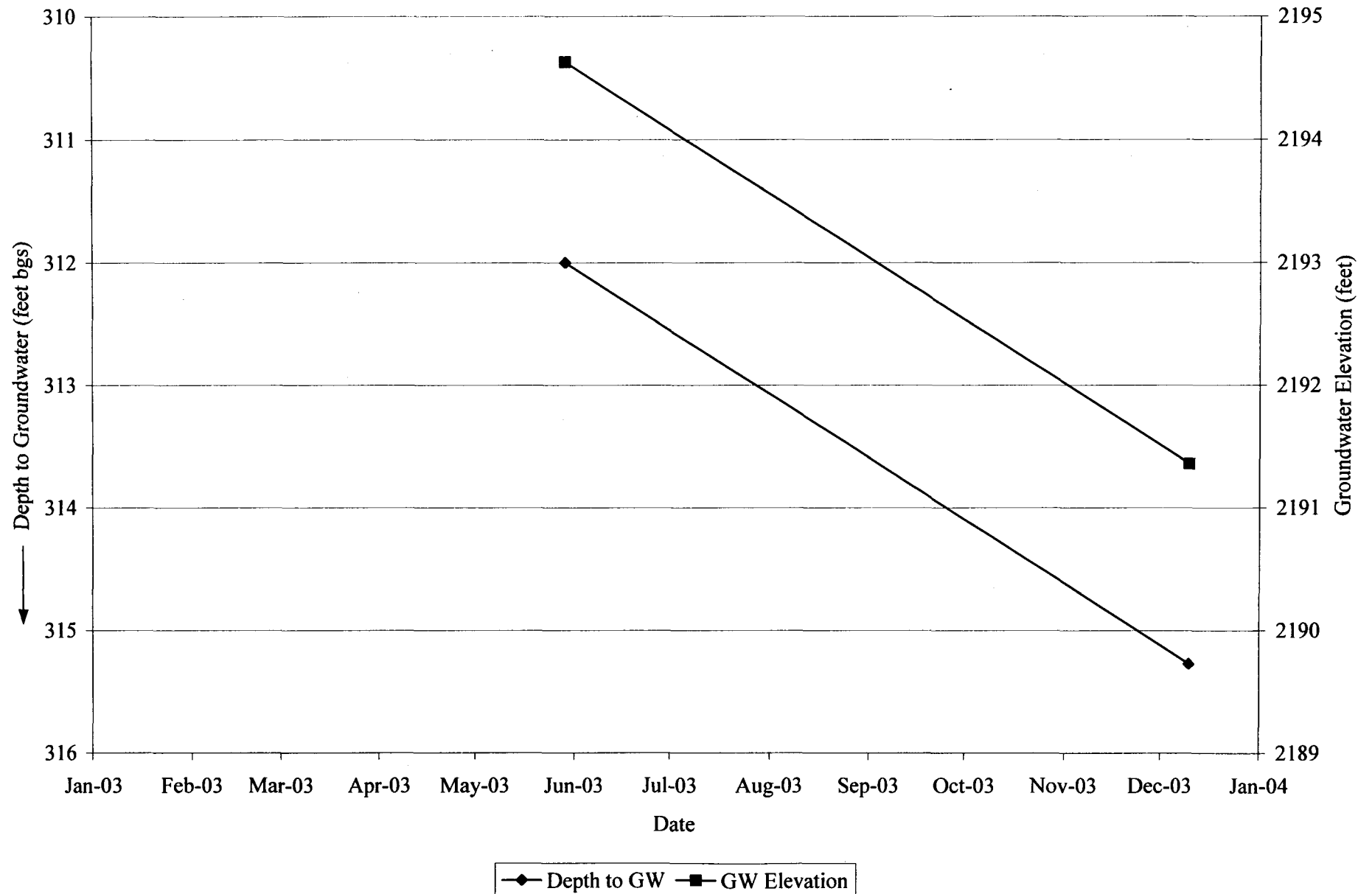


FIGURE 6.67
Palmdale Water Reclamation Plant MW 28
Groundwater Elevation and Depth to Groundwater

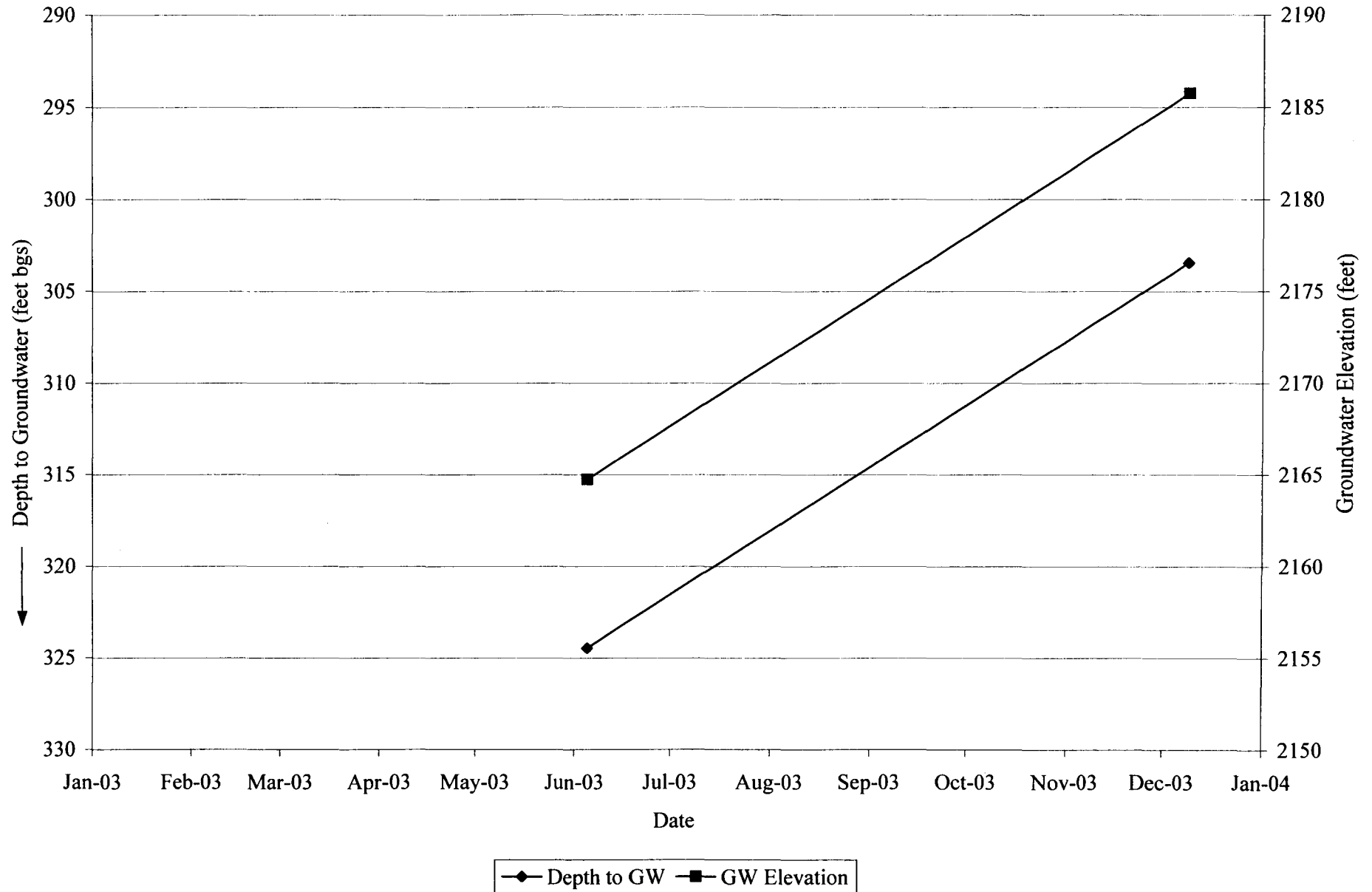


FIGURE 6.68
Palmdale Water Reclamation Plant MW 29
Chloride and TDS

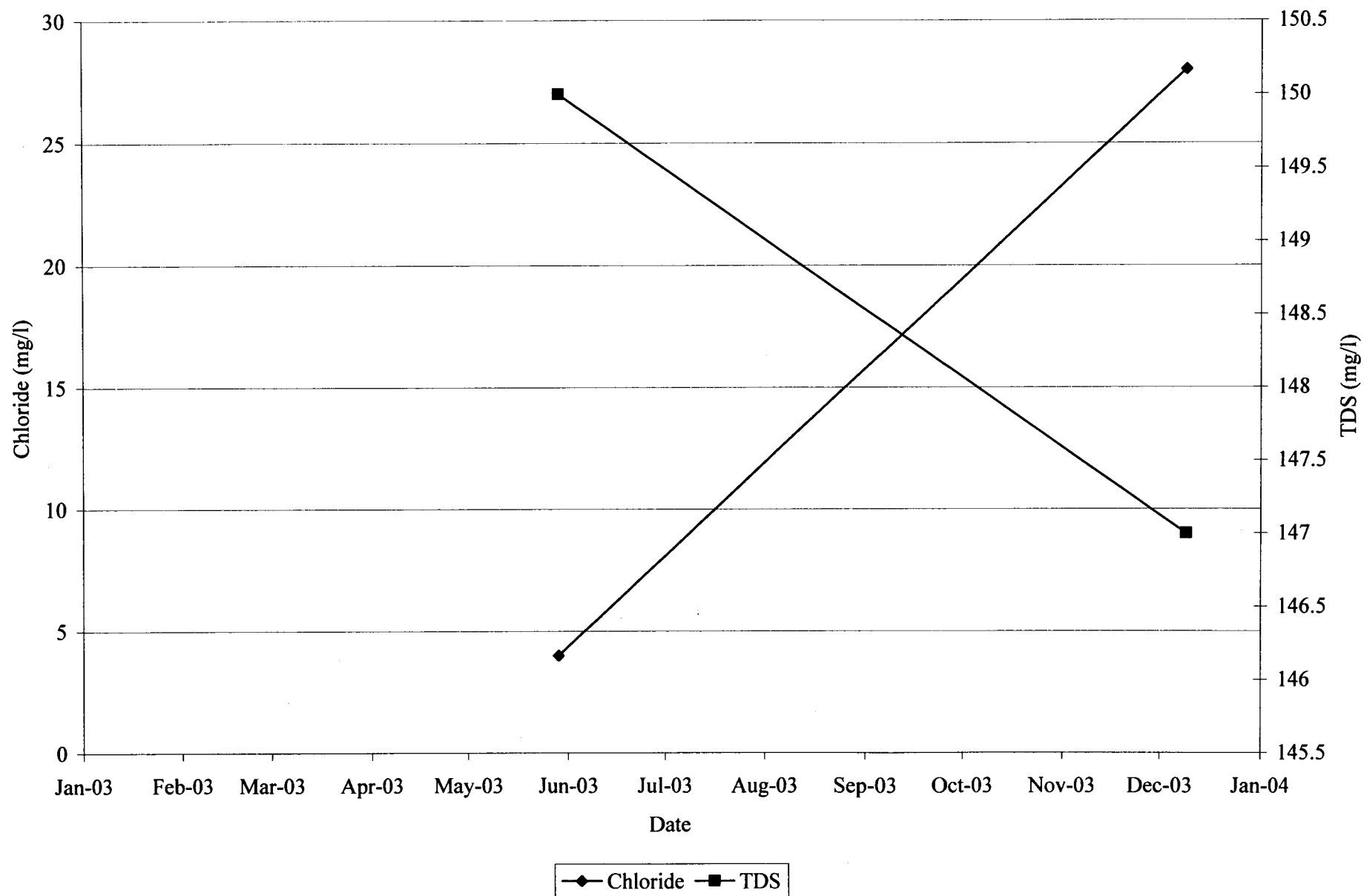


FIGURE 6.69
Palmdale Water Reclamation Plant MW 29
 MBAS, NH₃, TKN, NO₃⁻

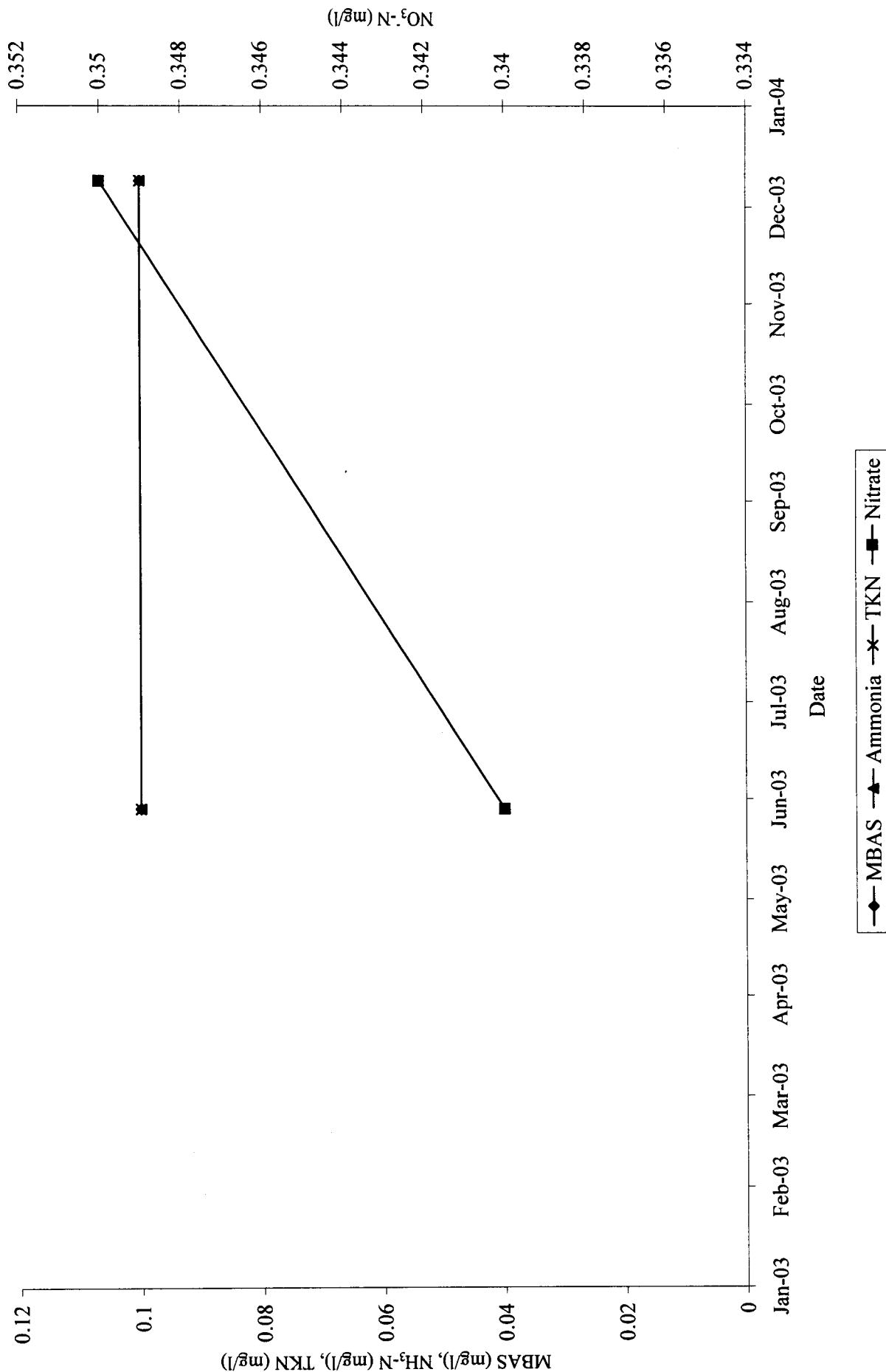
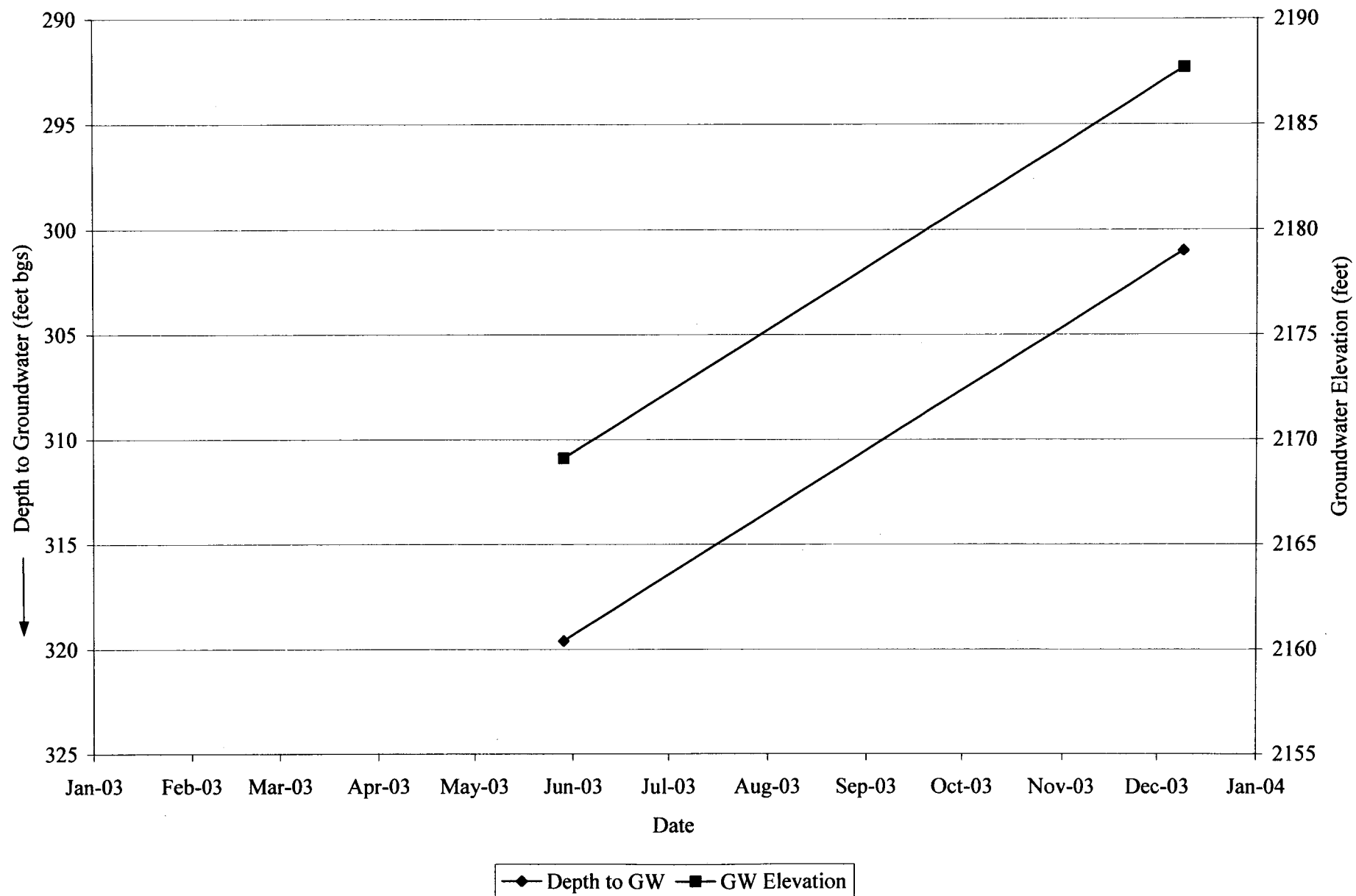


FIGURE 6.70
Palmdale Water Reclamation Plant MW 29
Groundwater Elevation and Depth to Groundwater



APPENDIX A

Laboratory Analytical Methods and Detection Limits

TABLE A.1
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR INFLUENT AND EFFLUENT

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
101	PH	SM 4500-HB	*	*	*	pH unit
102	Conductivity	SM 2510B	*	*	*	us/cm
103	Turbidity	SM 2130B	*	0.1	0.1	NTU
111	Temperature	SM 2550B	*	*	*	
115	Dissolved Oxygen	SM 4500-OG	*	*	1	mg/L
122	Tritium	EPA 906/900.0	*	*	300	pCi/L
124	Strontium-90	EPA 905/900.0	*	*	2	pCi/L
125	Uranium	EPA 908.1	*	*	0.064	pCi/L
126	Radium 226+228	EPA 903.1/904.0	*	*	0.48 / 1.0	pCi/L
151	Suspended Solids	SM 2540D	*	0.4	1	mg/L
155	Total Dissolved Solids	SM 2540C	*	7	7	mg/L
156	Settleable Solids	SM 2540F	*	*	0.1	mL/L
201	Ammonia Nitrogen	SM 4500-NH3E	*	0.1	0.1	mg/L
202	Organic Nitrogen	SM 4500-NORGB	*	0.2	0.2	mg/L
203	Total kjeldahl nitrogen (TKN)	SM 4500-NORGB	*	0.2	0.2	mg/L
204	Nitrate Nitrogen	SM 4500-NO3-E	*	0.01	0.04	mg/L
205	Nitrite Nitrogen	SM 4500-NO2B	*	0.001	0.02	mg/L
206	Cyanide(CN)	SM 4500CDE	5	3	5	ug/L
208	Total Nitrogen	By Calculation	*	0.2	0.2	mg/L
257	Sulfate	EPA 375.4	*	1.1	5	mg/L
301	Chloride	SM 4500-CLB	*	0.2	0.2	mg/L
302	Chlorine Residual	SM 4500-CLC	*	0.05	0.05	mg/L
309	Total Hardness	SM 2340C	*	0.66	5	mg/L
310	Total phosphate	SM 4500-PBE	*	0.038	0.5	mg/L
311	Orthophosphate-P	SM 4500-PE	*	0.028	0.5	mg/L
312	Phenols	EPA 420.1	*	0.0007	0.01	mg/L
313	Fluoride	SM 4500-FC	*	0.01	0.1	mg/L
314	Boron	SM 4500-BB	*	0.02	0.2	mg/L
315	Surfactants (MBAS)	SM 5540C	*	0.05	0.1	mg/L
316	Surfactants (CTAS)	SM 5540D	*	0.05	0.1	mg/L
349	Total Coliform	SM 9222B	*	*	1	CFU/100mL
356	Fecal Coliform	SM 9222D	*	*	1	CFU/100mL
364	Chlorophyll A	EPA 445.0	*	0.01	0.022 - 0.22	ug/L
370	Gross Alpha Radioactivity	EPA 900.0	*	3.8	3.8	pCi/L
371	Gross Beta Radioactivity	EPA 900.0	*	2.8	2.8	pCi/L
401	Total BOD	SM 5210B	*	3	3	mg/L
402	Soluble BOD	SM5210B	*	3	3	mg/L
403	Total COD	SM 5220B	*	2.4	10	mg/L
404	Soluble COD	SM5220B	*			
405	Total Organic Carbon	SM5310D	**	0.07	0.5	mg/L
408	Oil and Grease	EPA 1664	*	1.05	4	mg/L
412	Total Carbonaceous BOD	SM 5210B	*	3	3	mg/L
462	Soluble Carbonaceous BOD	SM5210B	*	3	3	mg/L
501	2,4'-DDE	608	0.005	0.002	0.01	ug/L
502	4,4'-DDE	EPA 608	0.005	0.0003	0.01	ug/L
503	2,4'-DDD	608	0.005	0.0009	0.01	ug/L
504	4,4'-DDD	EPA 608	0.005	0.0009	0.01	ug/L
505	2,4'-DDT	608	0.005	0.002	0.01	ug/L
506	4,4'-DDT	EPA 608	0.005	0.003	0.01	ug/L
508	Alpha-BHC	EPA 608	0.005	0.002	0.01	ug/L
509	gamma-BHC	EPA 608	0.005	0.001	0.01	ug/L
510	Heptachlor	EPA 608	0.005	0.002	0.01	ug/L
511	Heptachlor Epoxide	EPA 608	0.005	0.001	0.01	ug/L
512	Aldrin	EPA 608	0.005	0.003	0.01	ug/L
513	Dieldrin	EPA 608	0.005	0.002	0.01	ug/L
514	Endrin	EPA 608	0.005	0.002	0.01	ug/L

TABLE A.1 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR INFLUENT AND EFFLUENT

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
515	Toxaphene	EPA 608	0.2	0.05	0.5	ug/L
516	Methoxychlor	EPA 608	0.005	0.001	0.01	ug/L
517	2,4-D	EPA 8151A	2	0.84	2	ug/L
518	2,4,5 -TP (Silvex)	EPA 8151A	0.5	0.34	0.5	ug/L
519	PCB 1242	EPA 608	0.08	0.02	0.1	ug/L
520	PCB 1254	EPA 608	0.05	0.009	0.05	ug/L
523	beta-BHC	EPA 608	0.005	0.0008	0.01	ug/L
524	delta-BHC	EPA 608	0.005	0.002	0.01	ug/L
531	Alpha-Endosulfan	EPA 608	0.005	0.003	0.01	ug/L
532	Beta-Endosulfan	EPA 608	0.005	0.002	0.01	ug/L
533	Endosulfan Sulfate	EPA 608	0.005	0.01	0.1	ug/L
534	Endrin Aldehyde	EPA 608	0.005	0.0009	0.04	ug/L
535	PCB 1016	EPA 608	0.1	0.02	0.1	ug/L
536	PCB 1221	EPA 608	0.1	0.1	0.1	ug/L
537	PCB 1232	EPA 608	0.1	0.06	0.1	ug/L
538	PCB 1248	EPA 608	0.1	0.04	0.1	ug/L
539	PCB 1260	EPA 608	0.1	0.02	0.1	ug/L
540	Chlordane	EPA 608	0.04	0.007	0.05	ug/L
601	Methylene Chloride	EPA 8260B	0.5	0.05	0.5	ug/L
602	Chloroform	EPA 8260B	0.5	0.05	0.5	ug/L
603	1,1,1 Trichloroethane	EPA 8260B	0.5	0.1	0.5	ug/L
604	Carbon Tetrachloride	EPA 8260B	0.5	0.13	0.5	ug/L
605	1,1 Dichloroethylene	EPA 8260B	0.5	0.07	0.5	ug/L
606	Trichloroethylene	EPA 8260B	0.5	0.1	0.5	ug/L
607	Tetrachloroethylene	EPA 8260B	0.5	0.15	0.5	ug/L
608	Dichlorobromomethane	EPA 8260B	0.5	0.06	0.5	ug/L
609	Chlorodibromomethane	EPA 8260B	0.5	0.09	0.5	ug/L
610	Bromoform	EPA 8260B	0.5	0.24	0.5	ug/L
611	Chlorobenzene	EPA 8260B	0.5	0.09	0.5	ug/L
612	Vinyl Chloride	EPA 8260B	0.5	0.05	0.5	ug/L
613	1,2 Dichlorobenzene	EPA 8260B	0.5	0.12	0.5	ug/L
614	1,3 Dichlorobenzene	EPA 8260B	0.5	0.19	0.5	ug/L
615	1,4 Dichlorobenzene	EPA 8260B	0.5	0.26	0.5	ug/L
616	1,1 Dichloroethane	EPA 8260B	0.5	0.07	0.5	ug/L
618	1,1,2 Trichloroethane	EPA 8260B	0.5	0.08	0.5	ug/L
619	1,2 Dichloroethane	EPA 8260B	0.5	0.08	0.5	ug/L
620	Benzene	EPA 8260B	0.5	0.06	0.5	ug/L
621	Toluene	EPA 8260B	0.5	0.06	0.5	ug/L
624	Ethylbenzene	EPA 8260B	0.5	0.06	0.5	ug/L
645	Trans 1,2-Dichloroethylene	EPA 8260B	0.5	0.07	0.5	ug/L
646	Methyl Bromide	EPA 8260B	0.5	0.07	0.5	ug/L
647	Chloroethane	EPA 8260B	0.5	0.13	0.5	ug/L
648	2-Chloroethyl vinyl ether	EPA 8260B	0.5	0.17	0.5	ug/L
649	Chloromethane	EPA 8260B	0.5	0.07	0.5	ug/L
650	1,2 Dichloropropane	EPA 8260B	0.5	0.08	0.5	ug/L
651	Cis-1,3 Dichloropropylene	EPA 8260B	0.5	0.06	0.5	ug/L
652	Trans-1,3-Dichloropropene	EPA 8260B	0.5	0.09	0.5	ug/L
653	1,1,2,2 Tetrachloroethane	EPA 8260B	0.5	0.14	0.5	ug/L
654	Acrolein	EPA 8260B	2	0.52	2	ug/L
655	Acrylonitrile	EPA 8260B	2	0.57	2	ug/L
662	Methyl-t-butyl ether	EPA 8260B	0.5	0.06	0.5	ug/L
705	Total Arsenic	SM 3114B4d	1	0.2	1	ug/L
706	Barium	EPA 200.7	*	1	5	ug/L
708	Cadmium (Cd)	EPA 213.2	0.4	0.06	0.4	ug/L
709	Total Chromium	EPA 200.7	*	6	10	ug/L

TABLE A.1 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR INFLUENT AND EFFLUENT

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
710	Chromium VI (Cr-VI)	SM 3500 CrD	10	1.25	10	ug/L
710	Chromium VI (Cr-VI)	EPA 218.6	0.1	0.047	0.1	ug/L
712	Copper (Cu)	EPA 200.7	*	3	8	ug/L
713	Iron (Fe)	EPA 200.7	*	7	50	ug/L
714	Lead	EPA 239.2	2	0.35	2	ug/L
717	Mercury	EPA 245.1	0.025	0.03	0.04	ug/L
718	Nickel(Ni)	EPA 200.7	*	8	20	ug/L
720	Selenium(Se)	SM 3114B	1	0.3	1	ug/L
722	Silver(Ag)	EPA 200.8	*	0.059	0.20	ug/L
723	Sodium	200.7		0.27	0.8	mg/L
723	Sodium	EPA 200.7	*	0.27	0.8	mg/L
724	Zinc(Zn)	EPA 200.7	*	2	10	ug/L
725	Antimony (Sb)	EPA 7062	0.5	0.4	0.5	ug/L
726	Beryllium (Be)	EPA 210.2	0.5	0.1	0.5	ug/L
734	Thallium(Tl)	EPA 279.2	2	0.6	1	ug/L
800	Acenaphthene	EPA 625	1	0.562508605	1	ug/L
801	Acenaphthylene	EPA 625	10	0.742318737	10	ug/L
802	Anthracene	EPA 625	10	0.465617003	10	ug/L
803	Benzidine	EPA 625	5	4.063745674	5	ug/L
804	Benzo (a) Anthracene	EPA 625	5	0.552985199	5	ug/L
805	Benzo (a) Pyrene	EPA 610	0.02	0.00	0.02	ug/L
806	Benzo (b) Fluoranthene	EPA 610	0.02	0.0022	0.02	ug/L
807	Benzo (g,h,i) Perylene	EPA 625	5	0.670316095	5	ug/L
808	Benzo (k) Fluoranthene	EPA 610	0.02	0.0011	0.02	ug/L
809	Bis (2-Chloroethoxyl) methane	EPA 625	5	0.802308266	5	ug/L
810	Bis(2-Chloroethyl) ether	EPA 625	1	0.743635685	1	ug/L
811	Bis(2-Chloroisopropyl) ether	EPA 625	2	0.536954464	2	ug/L
812	Bis(2-Ethylhexyl) phthalate	EPA 625	2	0.720706776	2	ug/L
813	4-Bromophenyl phenyl ether	EPA 625	5	0.513943684	5	ug/L
814	Butyl benzyl phthalate	EPA 625	10	0.653046395	10	ug/L
815	2-Chloronaphthalene	EPA 625	10	0.534475698	10	ug/L
816	4-Chlorophenyl phenyl ether	EPA 625	5	0.521369375	5	ug/L
817	Chrysene	EPA 610	0.02	0.0019	0.02	ug/L
818	Dibenzo(a,h)-anthracene	EPA 610	0.02	0.003	0.02	ug/L
819	1,2 Dichlorobenzene	EPA 625	2	0.710996016	2	ug/L
820	1,3 Dichlorobenzene	EPA 625	1	0.527234632	1	ug/L
821	1,4 Dichlorobenzene	EPA 625	1	0.62952391	1	ug/L
822	3,3' Dichlorobenzidine	EPA 625	5	1.071954747	5	ug/L
823	Diethyl phthalate	EPA 625	2	0.492698417	2	ug/L
824	Dimethyl phthalate	EPA 625	2	0.50	2	ug/L
825	di-n-Butyl phthalate	EPA 625	10	0.507443147	10	ug/L
826	2,4 Dinitrotoluene	EPA 625	5	0.369200564	5	ug/L
827	2,6 Dinitrotoluene	EPA 625	5	0.46	5	ug/L
828	di-n-Octyl phthalate	EPA 625	10	0.502390852	10	ug/L
829	1,2 Diphenylhydrazine	EPA 625	1	0.360473103	1	ug/L
830	Fluoranthene	EPA 625	1	0.531459618	1	ug/L
831	Fluorene	EPA 625	10	0.496138136	10	ug/L
832	Hexachlorobenzene	EPA 625	1	0.476741768	1	ug/L
833	Hexachlorobutadiene	EPA 625	1	0.536542132	1	ug/L
834	Hexachloro-cyclopentadiene	EPA 625	5	1.482588274	5	ug/L
835	Hexachloroethane	EPA 625	1	0.544494211	1	ug/L
836	Indeno(1,2,3,cd)-pyrene	EPA 610	0.02	0.00	0.02	ug/L
837	Isophorone	EPA 625	1	0.667337943	1	ug/L
838	Naphthalene	EPA 625	1	0.545456046	1	ug/L
839	Nitrobenzene	EPA 625	1	0.644807261	1	ug/L

TABLE A.1 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR INFLUENT AND EFFLUENT

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
840	N-Nitrosodimethyl amine	EPA 625	5	0.704395736	5	ug/L
841	N-Nitroso-di-n-propyl amine	EPA 625	5	0.67	5	ug/L
842	Phenanthrene	EPA 625	5	0.486536619	5	ug/L
843	Pyrene	EPA 625	10	0.625346778	10	ug/L
845	2 Chlorophenol	EPA 625	5	0.55024	5	ug/L
846	1,2,4 Trichlorobenzene	EPA 625	5	0.499320941	5	ug/L
847	2,4 Dichlorophenol	EPA 625	5	0.57425164	5	ug/L
848	2,4 Dimethylphenol	EPA 625	2	1.311228652	2	ug/L
849	2,4 Dinitrophenol	EPA 625	5	3.214197971	5	ug/L
850	2-Methyl-4,6-Dinitrophenol	EPA 625	5	2.736040192	5	ug/L
851	2-Nitrophenol	EPA 625	10	0.496138136	10	ug/L
852	4-Nitrophenol	EPA 625	10	0.556114952	10	ug/L
853	3-Methyl-4-Chlorophenol	EPA 625	1	0.527477602	1	ug/L
854	Pentachlorophenol	EPA 625	5	0.450977037	5	ug/L
854	Pentachlorophenol	EPA 8270- SIM	1	0.17	1	ug/L
855	Phenol	EPA 625	1	0.582108807	1	ug/L
856	2,4,6 Trichlorophenol	EPA 625	10	0.54237217	10	ug/L
857	N-Nitrosodiphenyl amine	EPA 625	1	0.44554067	1	ug/L
951	Nitrite-N + Nitrate-N	By Calculation	*	0.01	0.04	mg/L
C15	Hydrocarbons Modified 8015	418.1		0.3	1	mg/L
C15	Hydrocarbons	EPA 418.1	*	0.3	1	mg/L

TABLE A.2
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR WELLS AND RECEIVING WATERS

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
101	PH	SM 4500-HB	*	0.02	1	pH unit
102	Conductivity	SM 2510B	*	0.08	1	us/cm
103	Turbidity	SM 2130B	*	0.1	0.1	NTU
111	Temperature	SM 2550B	*	*	*	
115	Dissolved Oxygen	SM 4500-OG	*	*	1	mg/L
122	Tritium	EPA 906/900.0	*	*	300	pCi/L
124	Strontium-90	EPA 905/900.0	*	*	2	pCi/L
125	Uranium	EPA 908.1	*	*	0.064	pCi/L
126	Radium 226+228	EPA 903.1/904.0	*	*	0.48 / 1.0	pCi/L
151	Suspended Solids	SM 2540D	*	0.52	1	mg/L
155	Total Dissolved Solids	SM 2540C	*	2.69	10	mg/L
156	Settleable Solids	SM 2540F	*	*	0.1	mL/L
201	Ammonia Nitrogen	SM 4500-NH3BE	*	0.04	0.1	mg/L
202	Organic Nitrogen	SM 4500-NORGB	*	0.08	0.1	mg/L
203	Total kjeldahl nitrogen (TKN)	SM 4500-NORGB	*	0.1	0.1	mg/L
204	Nitrate Nitrogen	EPA 300.0	*	0.027	0.05	mg/L
205	Nitrite Nitrogen	SM 4500-NO2B	*	0.001	0.02	mg/L
206	Cyanide(CN)	SM 4500CDE	5	3	5	ug/L
208	Total Nitrogen	By Calculation	*	0.1	0.1	mg/L
257	Sulfate	EPA 300.0	*	0.051	0.5	mg/L
301	Chloride	EPA 300.0	*	0.026	0.2	mg/L
302	Chlorine Residual	SM 4500-CLC	*	0.05	0.05	mg/L
309	Total Hardness	SM 2340C	*	0.66	5	mg/L
310	Total phosphate	SM 4500-PBE	*	0.038	0.5	mg/L
311	Orthophosphate-P	SM 4500-PE	*	0.028	0.5	mg/L
312	Phenols	EPA 420.1	*	0.0007	0.01	mg/L
313	Fluoride	SM 4500-FC	*	0.01	0.1	mg/L
314	Boron	SM 4500-BB	*	0.02	0.2	mg/L
315	Surfactants (MBAS)	SM 5540C	*	0.01	0.1	mg/L
315	Surfactants (MBAS)	SM 5540C	*	0.014	0.1	mg/L
316	Surfactants (CTAS)	SM 5540D	*	0.05	0.1	mg/L
350	Total Coliform	SM 9221B	*	*	2	MPN/100mL
351	Fecal Coliform	SM 9221E	*	*	2	MPN/100mL
364	Chlorophyll A	EPA 445.0	*	0.01	0.022 - 0.22	ug/L
370	Gross Alpha Radioactivity	EPA 900.0	*	1.4 - 3.8	1.4 - 3.8	pCi/L
371	Gross Beta Radioactivity	EPA 900.0	*	2.8	2.8	pCi/L
401	Total Bod	SM 5210B	*	0.61	2	mg/L
403	Total Cod	SM 5220B	*	1.87	10	mg/L
405	Total Organic Carbon	SM5310D	**	0.07	0.5	mg/L
408	Oil and Grease	EPA 1664	*	1.05	4	mg/L
412	Total Carboneous BOD	SM 5210B		0.61	2	mg/L
501	2,4'-DDE	608	0.005	0.002	0.01	ug/L
502	4,4'-DDE	EPA 608	0.005	0.0003	0.01	ug/L
503	2,4'-DDD	608	0.005	0.0009	0.01	ug/L
504	4,4'-DDD	EPA 608	0.005	0.0009	0.01	ug/L
505	2,4'-DDT	608	0.005	0.002	0.01	ug/L
506	4,4'-DDT	EPA 608	0.005	0.003	0.01	ug/L
508	Alpha-BHC	EPA 608	0.005	0.002	0.01	ug/L
509	Lindane (Gamma-BHC)	EPA 608	0.005	0.001	0.01	ug/L
510	Heptachlor	EPA 608	0.005	0.002	0.01	ug/L
511	Heptachlor Epoxide	EPA 608	0.005	0.001	0.01	ug/L
512	Aldrin	EPA 608	0.005	0.003	0.01	ug/L

TABLE A.2 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR WELLS AND RECEIVING WATERS

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
513	Dieldrin	EPA 608	0.005	0.002	0.01	ug/L
514	Endrin	EPA 608	0.005	0.002	0.01	ug/L
515	Toxaphene	EPA 608	0.2	0.05	0.5	ug/L
516	Methoxychlor	EPA 608	0.005	0.001	0.01	ug/L
517	2,4-D	EPA 8151A	2	0.84	2	ug/L
518	2,4,5 -TP (Silvex)	EPA 8151A	0.5	0.34	0.5	ug/L
519	PCB 1242	EPA 608	0.08	0.02	0.1	ug/L
520	PCB 1254	EPA 608	0.05	0.009	0.05	ug/L
523	beta-BHC	EPA 608	0.005	0.0008	0.01	ug/L
524	delta-BHC	EPA 608	0.005	0.002	0.01	ug/L
531	Alpha-Endosulfan	EPA 608	0.005	0.003	0.01	ug/L
532	Beta-Endosulfan	EPA 608	0.005	0.002	0.01	ug/L
533	Endosulfan Sulfate	EPA 608	0.005	0.01	0.1	ug/L
534	Endrin Aldehyde	EPA 608	0.005	0.0009	0.01	ug/L
535	PCB 1016	EPA 608	0.1	0.02	0.1	ug/L
536	PCB 1221	EPA 608	0.1	0.1	0.1	ug/L
537	PCB 1232	EPA 608	0.1	0.06	0.1	ug/L
538	PCB 1248	EPA 608	0.1	0.04	0.1	ug/L
539	PCB 1260	EPA 608	0.1	0.02	0.1	ug/L
540	Chlordane	EPA 608	0.04	0.007	0.05	ug/L
601	Methylene Chloride	EPA 8260B	0.5	0.05	0.5	ug/L
602	Chloroform	EPA 8260B	0.5	0.05	0.5	ug/L
603	1,1,1 Trichloroethane	EPA 8260B	0.5	0.1	0.5	ug/L
604	Carbon Tetrachloride	EPA 8260B	0.5	0.13	0.5	ug/L
605	1,1 Dichloroethylene	EPA 8260B	0.5	0.07	0.5	ug/L
606	Trichloroethylene	EPA 8260B	0.5	0.1	0.5	ug/L
607	Tetrachloroethylene	EPA 8260B	0.5	0.15	0.5	ug/L
608	Dichlorobromomethane	EPA 8260B	0.5	0.06	0.5	ug/L
609	Chlorodibromomethane	EPA 8260B	0.5	0.09	0.5	ug/L
610	Bromoform	EPA 8260B	0.5	0.24	0.5	ug/L
611	Chlorobenzene	EPA 8260B	0.5	0.09	0.5	ug/L
612	Vinyl Chloride	EPA 8260B	0.5	0.05	0.5	ug/L
613	1,2 Dichlorobenzene	EPA 8260B	0.5	0.12	0.5	ug/L
614	1,3 Dichlorobenzene	EPA 8260B	0.5	0.19	0.5	ug/L
615	1,4 Dichlorobenzene	EPA 8260B	0.5	0.26	0.5	ug/L
616	1,1 Dichloroethane	EPA 8260B	0.5	0.07	0.5	ug/L
618	1,1,2 Trichloroethane	EPA 8260B	0.5	0.08	0.5	ug/L
619	1,2 Dichloroethane	EPA 8260B	0.5	0.08	0.5	ug/L
620	Benzene	EPA 8260B	0.5	0.06	0.5	ug/L
621	Toluene	EPA 8260B	0.5	0.06	0.5	ug/L
624	Ethylbenzene	EPA 8260B	0.5	0.06	0.5	ug/L
645	Trans 1,2- Dichloroethylene	EPA 8260B	0.5	0.07	0.5	ug/L
646	Methyl Bromide	EPA 8260B	0.5	0.07	0.5	ug/L
647	Chloroethane	EPA 8260B	0.5	0.13	0.5	ug/L
648	2-Chloroethyl vinyl ether	EPA 8260B	0.5	0.17	0.5	ug/L
649	Chloromethane	EPA 8260B	0.5	0.07	0.5	ug/L
650	1,2 Dichloropropane	EPA 8260B	0.5	0.08	0.5	ug/L
651	Cis-1,3 Dichloropropylene	EPA 8260B	0.5	0.06	0.5	ug/L
652	Trans-1,3-Dichloropropene	EPA 8260B	0.5	0.09	0.5	ug/L
653	1,1,2,2 Tetrachloroethane	EPA 8260B	0.5	0.14	0.5	ug/L
654	Acrolein	EPA 8260B	2	0.52	2	ug/L
655	Acrylonitrile	EPA 8260B	2	0.57	2	ug/L
662	Methyl-t-butyl ether (MTBE)	EPA 8260B	0.5	0.06	0.5	ug/L
705	Total Arsenic	SM 3114B4d	1	0.2	1	ug/L

TABLE A.2 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR WELLS AND RECEIVING WATERS

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
706	Barium	EPA 200.7	*	1	5	ug/L
708	Cadmium (Cd)	EPA 213.2	0.4	0.06	0.4	ug/L
709	Total Chromium	EPA 200.7	*	6	10	ug/L
710	Chromium VI (Cr-VI)	SM 3500 CrD	10	1.25	10	ug/L
710	Chromium VI (Cr-VI)	EPA 218.6	0.1	0.047	0.1	ug/L
712	Copper (Cu)	EPA 200.7	*	3.0	8	ug/L
713	Iron (Fe)	EPA 200.7	*	7.0	50	ug/L
714	Lead	EPA 239.2	2	0.35	2	ug/L
716	MANGANESE	EPA 200.7	**	0.0005	0.005	mg/L
717	Mercury	EPA 245.1	0.025	0.0	0.04	ug/L
718	Nickel(Ni)	EPA 200.7	*	8.0	20	ug/L
720	Selenium(Se)	SM 3114B	1	0.3	1	ug/L
722	Silver(Ag)	EPA 200.8	*	0.059	0.20	ug/L
723	Sodium	EPA 200.7	*	0.27	0.8	mg/L
724	Zinc(Zn)	EPA 200.7	*	2	10	ug/L
725	Antimony (Sb)	EPA 7062	0.5	0.40	0.5	ug/L
726	Beryllium (Be)	EPA 210.2	0.5	0.10	0.5	ug/L
734	Thallium(Tl)	EPA 279.2	2	0.60	1	ug/L
800	Acenaphthene	EPA 625	1	0.5625	1	ug/L
801	Acenaphthylene	EPA 625	10	0.7423	10	ug/L
802	Anthracene	EPA 625	10	0.47	10	ug/L
803	Benzidine	EPA 625	5	4.1	5	ug/L
804	Benzo (a) Anthracene	EPA 625	5	0.55	5	ug/L
805	Benzo (a) Pyrene	EPA 610	0.02	0.00	0.02	ug/L
806	Benzo (b) Fluoranthene	EPA 610	0.02	0.00	0.02	ug/L
807	Benzo (g,h,i) Perylene	EPA 625	5	0.67	5	ug/L
808	Benzo (k) Fluoranthene	EPA 610	0.02	0.0011	0.02	ug/L
809	Bis (2-Chloroethoxyl) methane	EPA 625	5	0.80	5	ug/L
810	Bis(2-Chloroethyl) ether	EPA 625	1	0.74	1	ug/L
811	Bis(2-Chloroisopropyl) ether	EPA 625	2	0.54	2	ug/L
812	Bis(2-Ethylhexyl) phthalate	EPA 625	2	0.7207	2	ug/L
813	4-Bromophenyl phenyl ether	EPA 625	5	0.5139	5	ug/L
814	Butyl benzyl phthalate	EPA 625	10	0.65	10	ug/L
815	2-Chloronaphthalene	EPA 625	10	0.53	10	ug/L
816	4-Chlorophenyl phenyl ether	EPA 625	5	0.52	5	ug/L
817	Chrysene	EPA 610	0.02	0.00	0.02	ug/L
818	Dibenzo(a,h)-anthracene	EPA 610	0.02	0.00	0.02	ug/L
819	1,2 Dichlorobenzene	EPA 625	2	0.71	2	ug/L
820	1,3 Dichlorobenzene	EPA 625	1	0.53	1	ug/L
821	1,4 Dichlorobenzene	EPA 625	1	0.63	1	ug/L
822	3,3' Dichlorobenzidine	EPA 625	5	1.07	5	ug/L
823	Diethyl phthalate	EPA 625	2	0.49	2	ug/L
824	Dimethyl phthalate	EPA 625	2	0.50	2	ug/L
825	di-n-Butyl phthalate	EPA 625	10	0.51	10	ug/L
826	2,4 Dinitrotoluene	EPA 625	5	0.37	5	ug/L
827	2,6 Dinitrotoluene	EPA 625	5	0.46	5	ug/L
828	di-n-Octyl phthalate	EPA 625	10	0.50	10	ug/L
829	1,2 Diphenylhydrazine	EPA 625	1	0.36	1	ug/L
830	Fluoranthene	EPA 625	1	0.53	1	ug/L
831	Fluorene	EPA 625	10	0.496	10	ug/L
832	Hexachlorobenzene	EPA 625	1	0.48	1	ug/L
833	Hexachlorobutadiene	EPA 625	1	0.54	1	ug/L
834	Hexachloro-cyclopentadiene	EPA 625	5	1.48	5	ug/L
835	Hexachloroethane	EPA 625	1	0.54	1	ug/L

TABLE A.2 (cont.)
ANALYTICAL METHODS, MINIMUM DETECTION LIMITS (MDL), MINIMUM LEVELS (ML), AND REPORTING
LEVELS (RL) FOR WELLS AND RECEIVING WATERS

Test Code	Name of Constituent	Method Used	ML	MDL	RL	Units
836	Indeno(1,2,3,cd)-pyrene	EPA 610	0.02	0.00	0.02	ug/L
837	Isophorone	EPA 625	1	0.67	1	ug/L
838	Naphthalene	EPA 625	1	0.55	1	ug/L
839	Nitrobenzene	EPA 625	1	0.64	1	ug/L
840	N-Nitrosodimethyl amine	EPA 625	5	0.70	5	ug/L
841	N-Nitroso-di-n-propyl amine	EPA 625	5	0.67	5	ug/L
842	Phenanthrene	EPA 625	5	0.49	5	ug/L
843	Pyrene	EPA 625	10	0.63	10	ug/L
845	2 Chlorophenol	EPA 625	5	0.55	5	ug/L
846	1,2,4 Trichlorobenzene	EPA 625	5	0.50	5	ug/L
847	2,4 Dichlorophenol	EPA 625	5	0.57425164	5	ug/L
848	2,4 Dimethylphenol	EPA 625	2	1.311228652	2	ug/L
849	2,4 Dinitrophenol	EPA 625	5	3.214197971	5	ug/L
850	2-Methyl-4,6-Dinitrophenol	EPA 625	5	2.736040192	5	ug/L
851	2-Nitrophenol	EPA 625	10	0.496138136	10	ug/L
852	4-Nitrophenol	EPA 625	10	0.556114952	10	ug/L
853	3-Methyl-4-Chlorophenol	EPA 625	1	0.527477602	1	ug/L
854	Pentachlorophenol	EPA 625	5	0.450977037	5	ug/L
855	Phenol	EPA 625	1	0.582108807	1	ug/L
856	2,4,6 Trichlorophenol	EPA 625	10	0.54237217	10	ug/L
857	N-Nitrosodiphenyl amine	EPA 625	1	0.44554067	1	ug/L
951	Nitrite-N + Nitrate-N	By Calculation	*	0.01	0.04	mg/L
5C1	2,4,5 -T	EPA 8151A	0.5	0.37	0.5	ug/L
C15	Hydrocarbons	EPA 418.1	*	0.3	1	mg/L