PETROTOMICS COMPANY
4711 East 15th St., Wyoming 82609 Telephone: (307) 234-9874
February 16, 2005

Mr. Melvyn Leach, Chief
Fuel Cycle Licensing Branch, FCSS
C/o Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Reference: License Condition 47A, Source Material License SUA-551

Dear Mr. Leach:

In accordance with License Condition 47A., we are submitting a report on the Compliance Monitoring Program (CMP). The program became effective on October 6, 1998 with the issuance of source Material License SUA-551, Amendment No. 63, Concurrence on Alternate Concentration Limits. The monitoring program was revised February 9, 2000 with the issuance of Source Material License SUA-551, Amendment No. 68. The ACL for Selenium was modified by Source Material License SUA-551, Amendment No. 75 on September 27, 2002.

Should you need any additional information, please contact me.

Sincerely,

Stephen J. Pfaff
Project Supervisor

Enclosures: Compliance Monitoring Report

PC: U.S. Nuclear Regulatory Commission
Mr. Rick Weller – ADDRESSEE ONLY
Fuel Cycle Licensing Branch
Mail Stop T-8A33
Washington, DC 20555

NMSS01

PETROTOMICS COMPANY

COMPLIANCE MONITORING REPORT

February 2005

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COMPLIANCE MONITORING PROGRAM REPORT
February 2005

Summary

In accordance with License Condition No. 47 A., we are submitting a report on the Compliance Monitoring Program (CMP). The program became effective on October 6, 1998 with the issuance of Source Material License SUA-551, Amendment No. 63, concurrence on Alternate Concentration Limits. The monitoring program was revised February 9, 2000 with the issuance of Source Material License SUA-551, Amendment No. 68 and the ACL for Selenium was modified by Source Material License SUA-551, Amendment No. 75 on September 27, 2002.

This report includes all of the data collected since the last report (February 2004). Sampling was conducted on the wells listed in License Condition No. 47 A. for the parameters listed. The wells were sampled during the second and fourth quarters of 2004. Wells 5-SC, 40-SC, 51-SC, 54-SC, 5-DC, 10-DC, 19-DC and the Mine Shop well are the wells being sampled in accordance with Amendment No. 68 to Source Materials License SUA-551 dated February 9, 2000. Wells 5-SC, 51-SC, 5-DC and 19-DC are Point of Compliance wells for the Alternate Concentration Limit. All other wells on the property have been abandoned in the course of site reclamation, in accordance with requirements of the Wyoming State Engineer.

Overall the groundwater quality in the Main and Upper sands is stable or improving at the site.

Groundwater Elevations

There has been a slight change in the Upper sand groundwater elevations with esentially no change in well 5-SC and well 51-SC; and well 54-SC increased 0.1 feet since the last report. This would indicate that the gradient has become stable. Well 40-SC is a shallow well influenced by seasonal variations and may fluctuate by as much as a few feet during the year. The groundwater elevation in well 40-SC increased 0.1 feet since the last report.

Groundwater elevations in the Main sand wells have increased since the last report. Water levels increased by 1.4 feet in well 5-DC, 1.1 feet in well 19-DC and 0.8 feet in well 10-DC. These increases are most likely due to regional reclamation in the neighboring area with termination of dewatering and mine pit reclamation.

We have included groundwater maps for the third/fourth quarter 1999 measurements (Figures labeled Data 2nd half 1999) for the Main and Upper sand with groundwater contours. With only 3 elevations in the Main sand, 4 elevations in the Upper sand and one elevation in the Lower sand, there are insufficient data points to plot meaningful

current groundwater contours. Maps for the sampling period of October 2004 have been provided to show well locations and water level. It is thought that the water level contours have changed little, since there has not been a major change in the water elevations from the fall of 1999 to the fourth quarter of 2004 for the Upper Sands and according to our predictive model, significant change in water elevations will not occur for between 20 – 50 years.

The Mine Shop well is completed in the Lower Wind River sand. Groundwater elevation in this well had risen 2.8 feet from October 1999 to May 2000 and then dropped 1.9 feet from May 2000 to Oct 2000. The water elevation had risen 0.7 feet from October 2001 to October 2002 and 1.4 feet from October 2003 to October 3 and 2.3 feet from 2003 to 2004. We believe these elevation increases are a direct result of our neighbor's (Pathfinder Mines) filling of their adjacent lake which will likely have a positive affect upon the area's water quality in the coming years.

Water level measurement data and trend graphs for each of the eight monitor wells are included.

Data Analysis

All POC well parameters are below the ACL limits established by the NRC. In discussions with Mr. Roger Garling of Energy Laboratories, it was determined that the sample matrix was causing interference with obtaining valid constituent concentrations of selenium in well 5-SC. Well 5-SC contains a substantial TDS value that is apparently causing a problem with the selenium analysis when done using the ICP method. It has been determined that the using the hydride method for analysis of Selenium in this well gives more consistent and repeatable results. The elevated selenium concentration seems to be unique to the 5-SC well as the other POC wells do not show any selenium in detectable levels. A review of the physical well data may help explain the elevated readings, as the bottom of this well casing is below the bottom of the upper sand. During the last three water sampling periods the water in the bottom of the well casing has been diminimus, perhaps adding to the concentration elevations.

A map showing the Point of Compliance (POC) wells along with the other monitor wells has been included. The POC wells are 5-SC, 51-SC, 5-DC and 19-DC, and a data summary sheet (Table 1) has been included for the ACL constituents.

Maps showing constituent concentrations and well locations for the required constituents; trend graphs for chloride, sulfate, nitrate and uranium; and laboratory results for the eight wells monitored are included in this report. See the Table of Contents for the page numbers of maps, data, tables and graphs.

The iso-concentration maps dated June 1998 are from the "Review of Corrective Action in the Upper and Main Wind River Sand at Petrotomics Tailings Area" June 1998. These maps are provided for reference. With only 3 locations in the Main sand, 4 locations in

the Upper sand and one location in the Lower sand, there are insufficient data points to plot meaningful current constituent iso-concentration maps.

Trend Analysis for Water Level, Chloride, Sulfate, Nitrate and Uranium

5-SC (Pages 25 to 32)

There has been a increase in the chloride and a decrease in sulfate levels, no change in the nitrate and a slight decrease in the uranium during this reporting period. The water level has not changed during the last part of 2004 and appears stable with slight seasonal variation.

40-SC (Pages 33 to 40)

Well 40-SC is a shallow well located near the outcrop area of the Upper sand. This well shows significant seasonal variation in water levels as shown by the water level graph. The seasonal variation also appears to affect the chloride and sulfate values. The nitrate and uranium concentrations are less affected by seasonal variations and tend to be low.

51-SC (Pages 41 to 47)

There has been little to no change in the nitrate values. Chloride and sulfate are slightly decreased and the uranium values have been variable but have been below 0.05 mg/l since August 1999. The water level is showing no change but the trend since 1998 is to be stable with variations of a couple tenths of a foot.

54-SC (Pages 48 to 54)

The overall trend in chlorides for well 54-SC shows a seasonal fluctuation since 1998 with a trend downward. The sulfate values have been trending downward over the last two years and appear to be stabilizing. The nitrates have been stable for over 2 years. The uranium values fluctuated but are still low and are showing a trend that they may be stabilizing. The water levels have increased 0.3 feet since the last report.

5-DC (Pages 55 to 61)

The chloride, sulfate, and nitrate trends are relatively stable for well 5-DC. The trend in the uranium levels between 2001 and 2003 has been downward. The latest value shows a slight upward trend. The trend of the water level has been upward beginning in 1997. It is believed that this is a result of recovery of the water levels in the Main sand due to regional reclamation in the area as stated. The water level has risen 1.4 feet since October 2003.

10-DC (Pages 62 to 68)

The trend for chloride has been fairly stable for the last four years. The trends for nitrate, sulfate and uranium levels have been stable except for a few spikes, which we believe to be problems with the laboratory analysis. Based on the historic data we believe that the two elevated nitrate, one elevated sulfate and one elevated uranium data points should be ignored. The water level in 10-DC declined steadily from 1992 to mid-1997. From mid-1997 to mid-2000 the water levels remained unchanged. It would appear that the water elevation is trending up with an increase of 0.8 feet since October 2003.

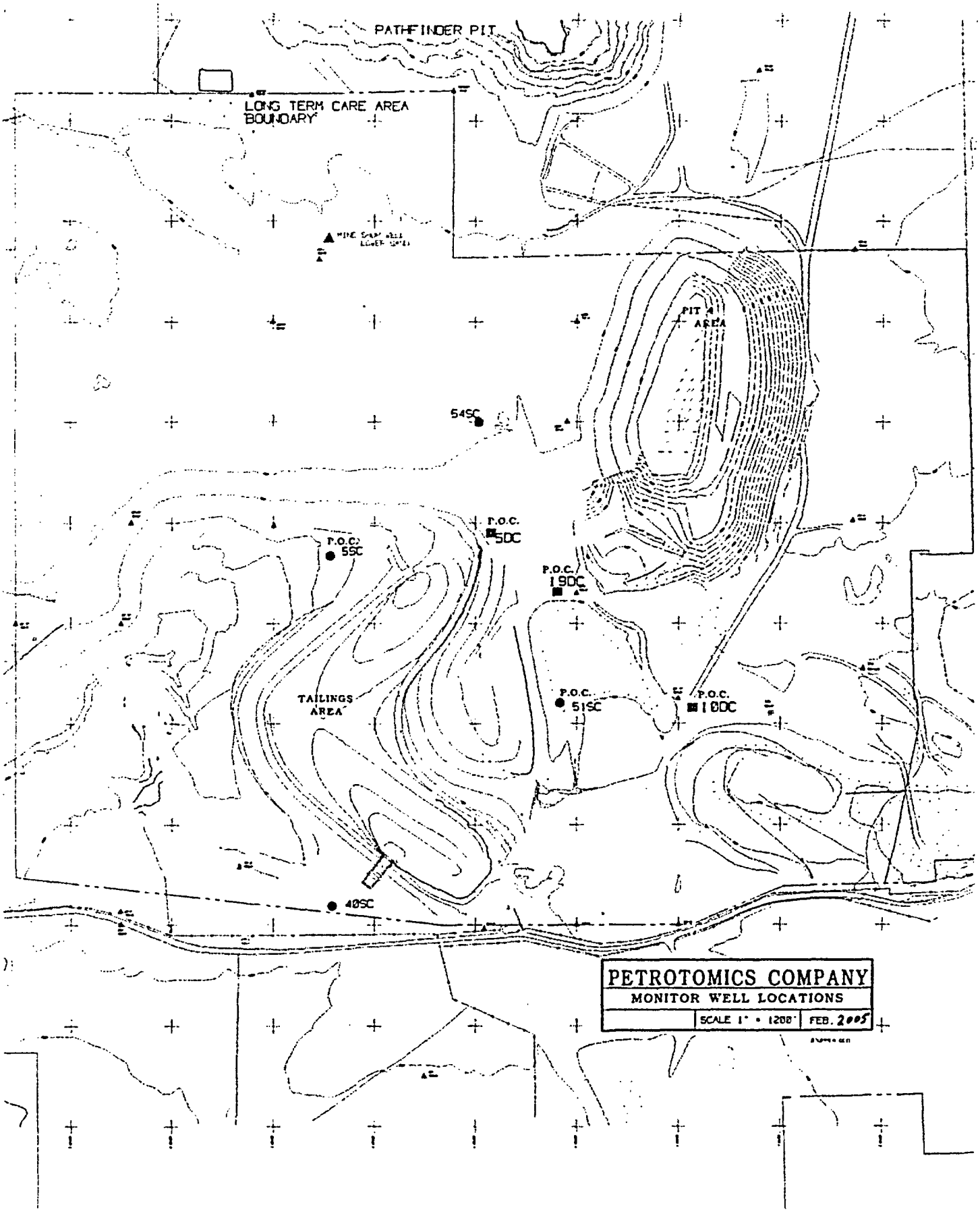
19-DC (Pages 69 to 75)

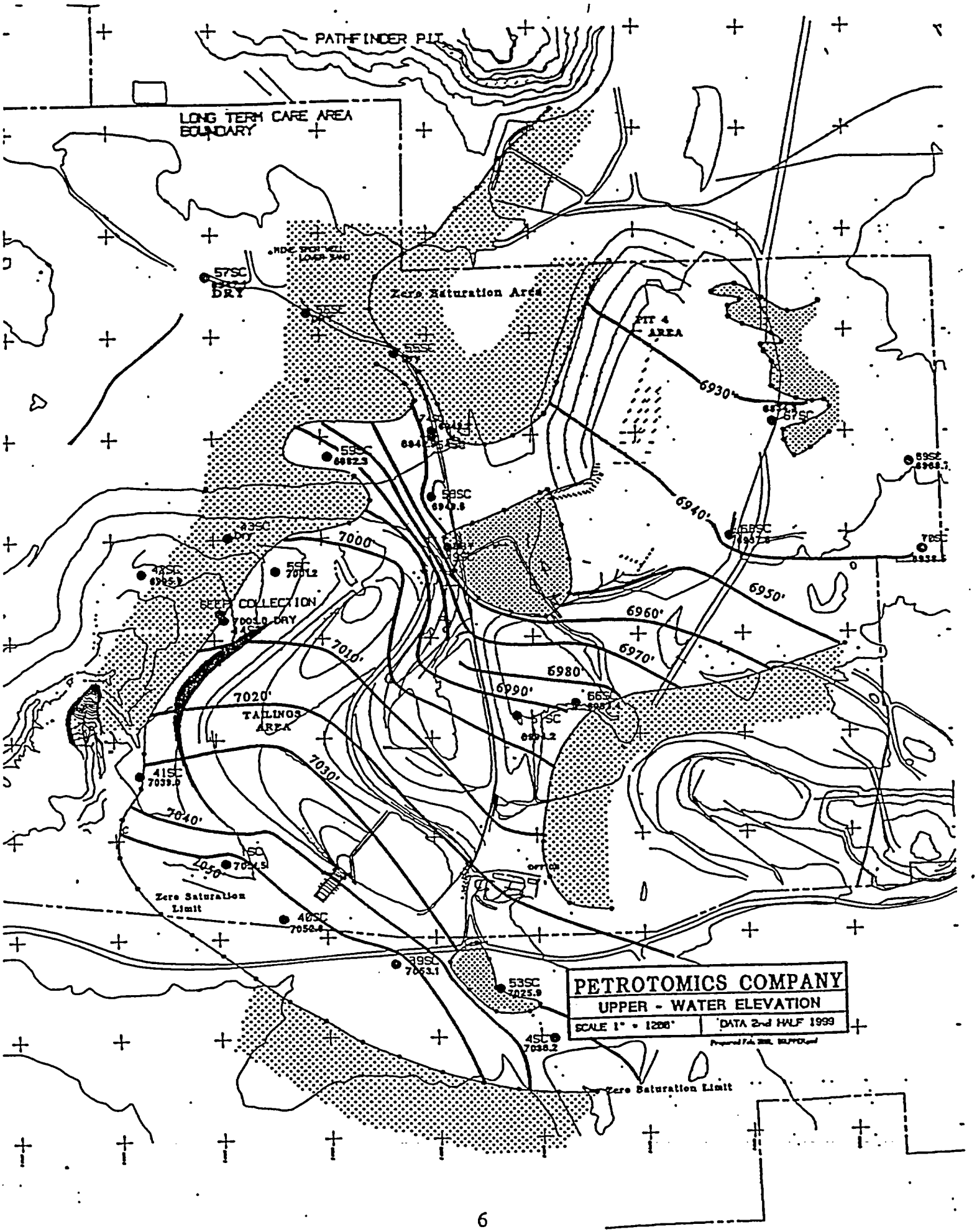
The trend for chloride has been fairly stable for the last five years with a slight trend downward. Sulfate has been trending downward with some variations which may be due to regional reclamation in the area as stated. The trend for nitrate has been stable except for one data point that again may be a laboratory problem. The uranium appears to be variable but at a scale similar to 5-SC would appear flat. All values are below 0.01 mg/l. The water levels have been trending up at a constant rate with an increase of 1.1 feet between October 2003 and October 2004. The dip shown on the graph is the result of pumping of the well and does not reflect a static water level at that time. Well 19-DC is between 5-DC and 10-DC and shows an increase in the water levels consistent with these other Main sand wells.

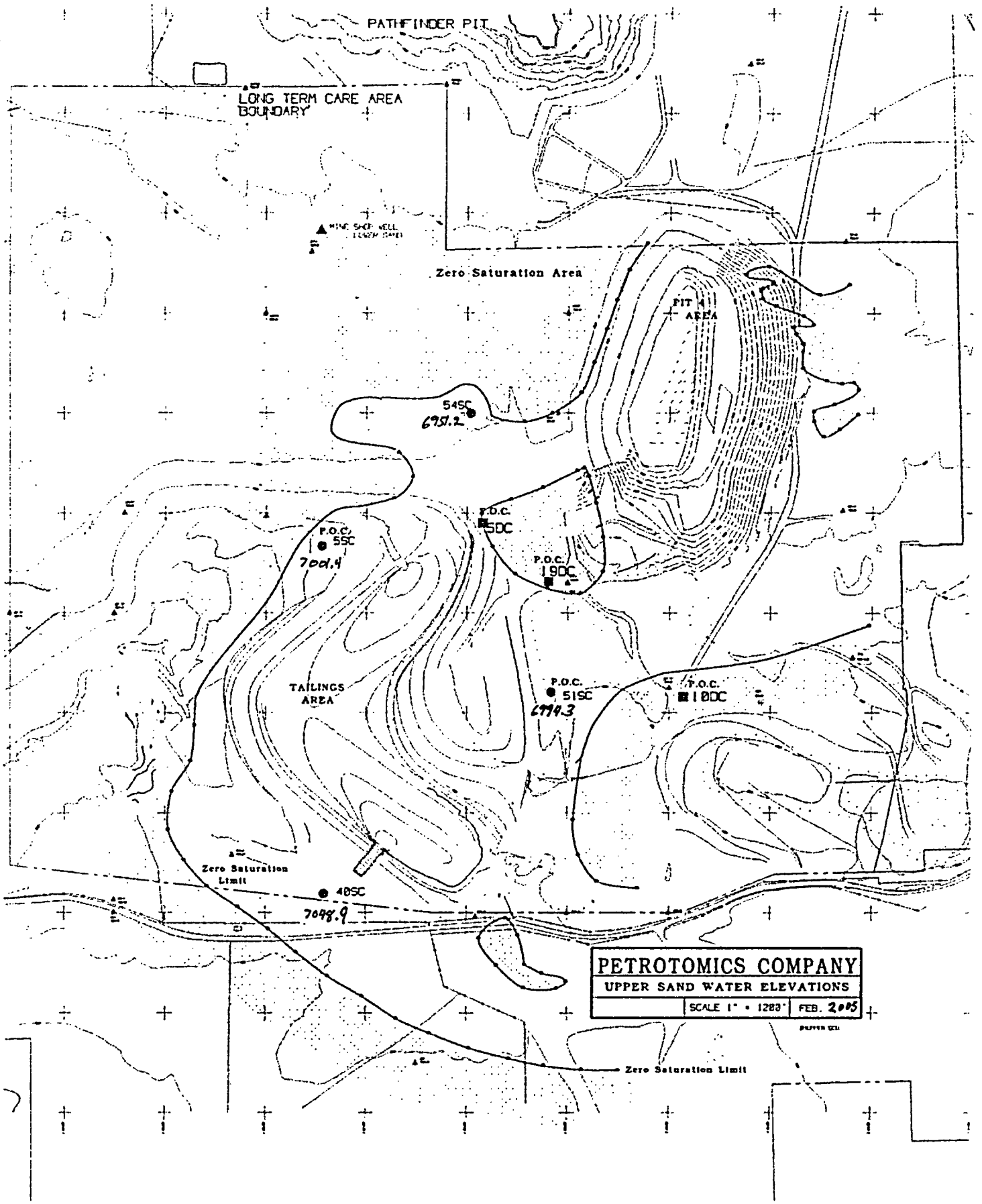
Overall the groundwater quality in the Main and Upper sands is stable or improving.

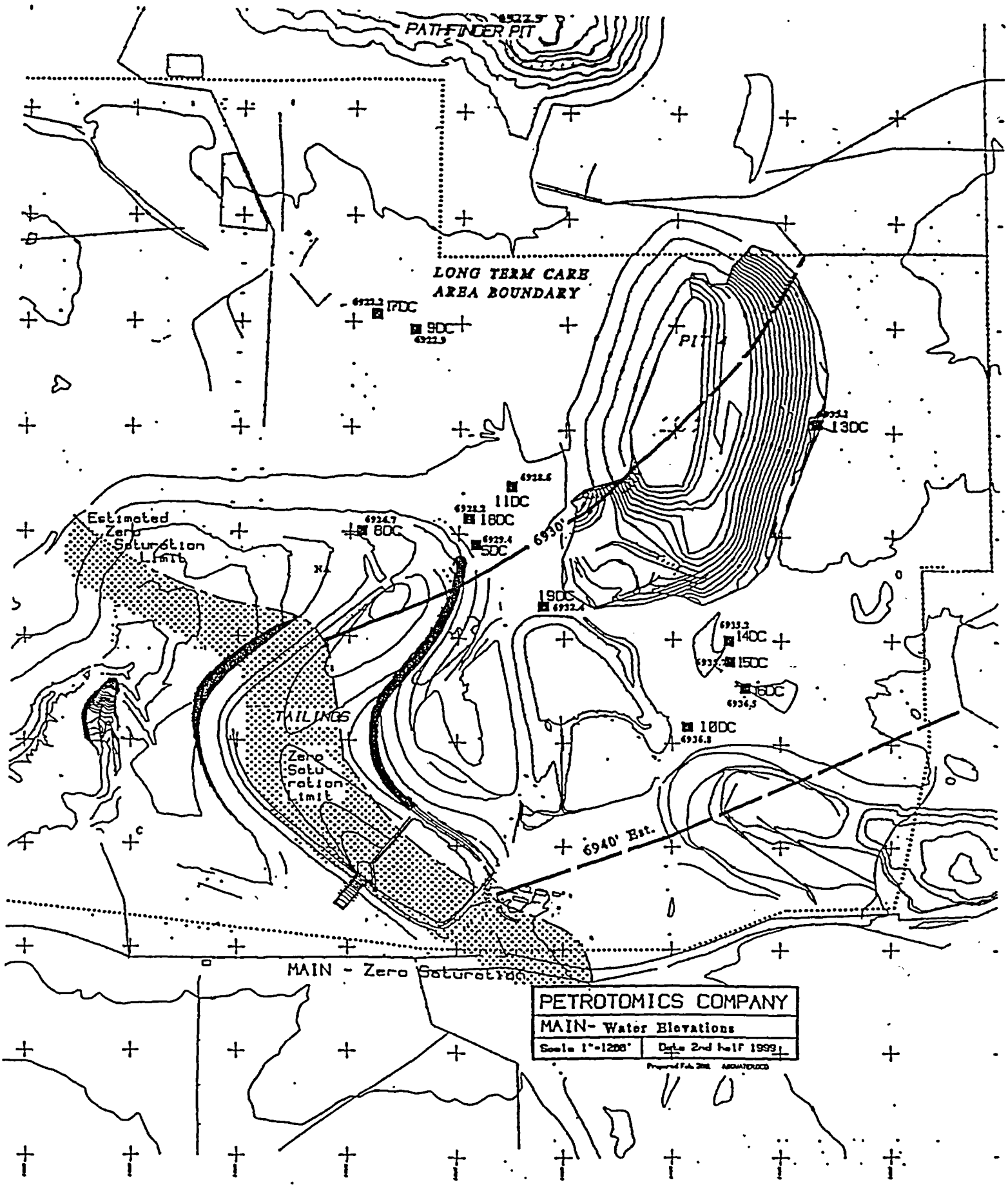
Mine Shop Well (Pages 76 to 83)

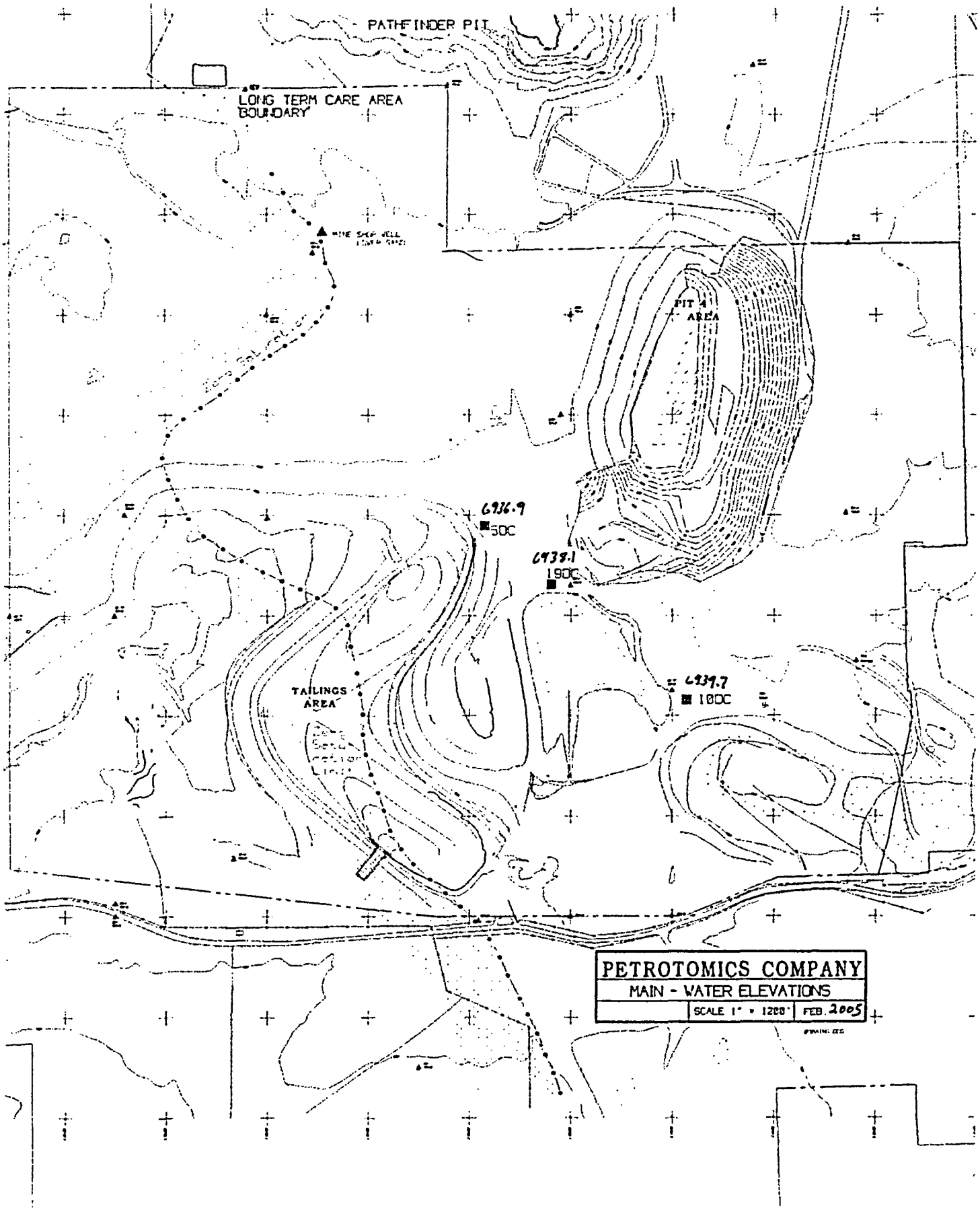
The chloride, sulfate, nitrate and uranium values for this Lower sand well have remained consistently low with a flat trend line. The water level in this well has increased approximately 2.3 feet in the last year.

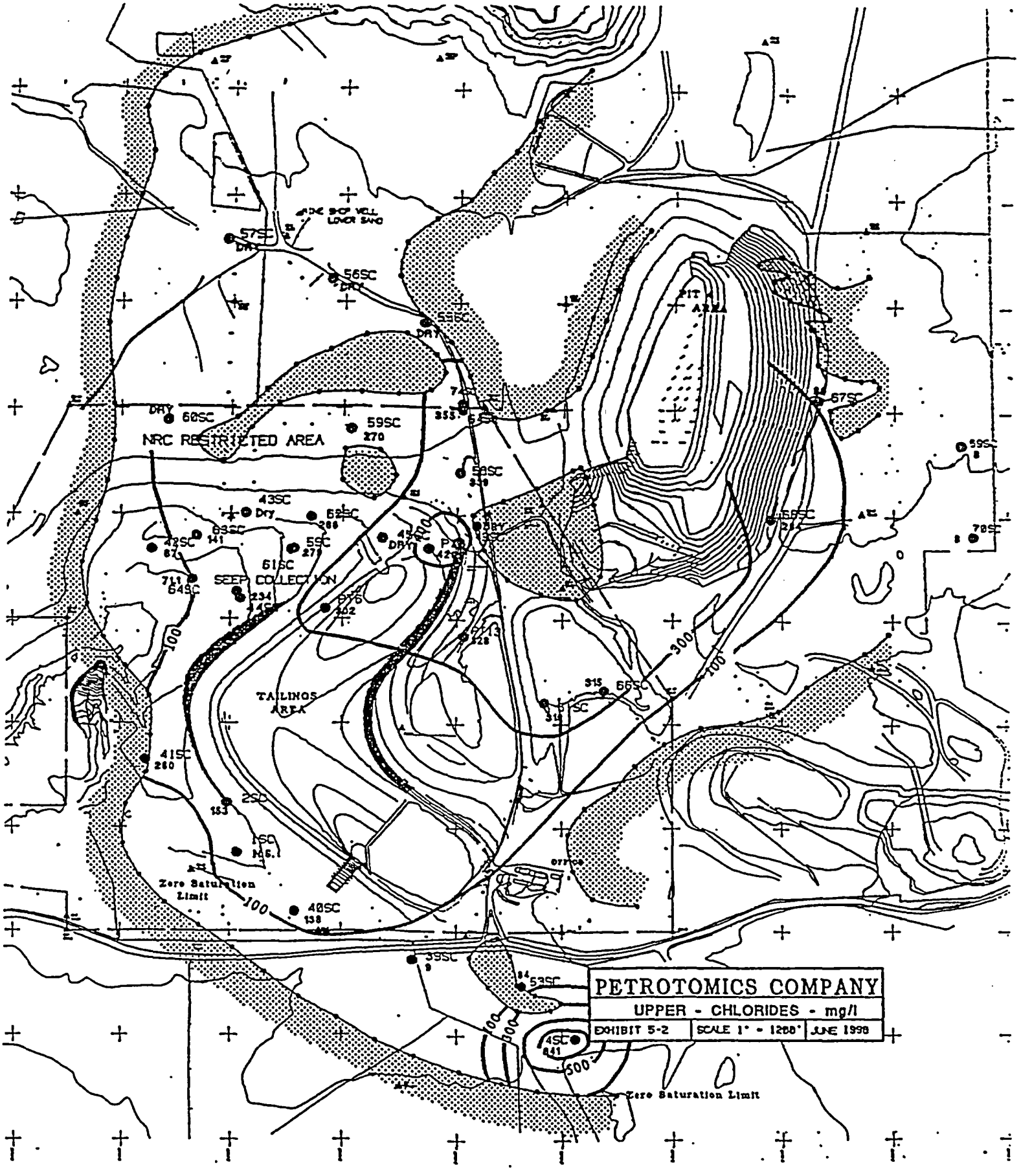

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT AREA
54SC
P.O.C. 5DC
P.O.C. 55C
P.O.C. 19DC
TAILINGS AREA
P.O.C. 51SC
P.O.C. 10DC
40SC
PETROTOMICS COMPANY
MONITOR WELL LOCATIONS
SCALE 1" = 1200'
FEB. 2005

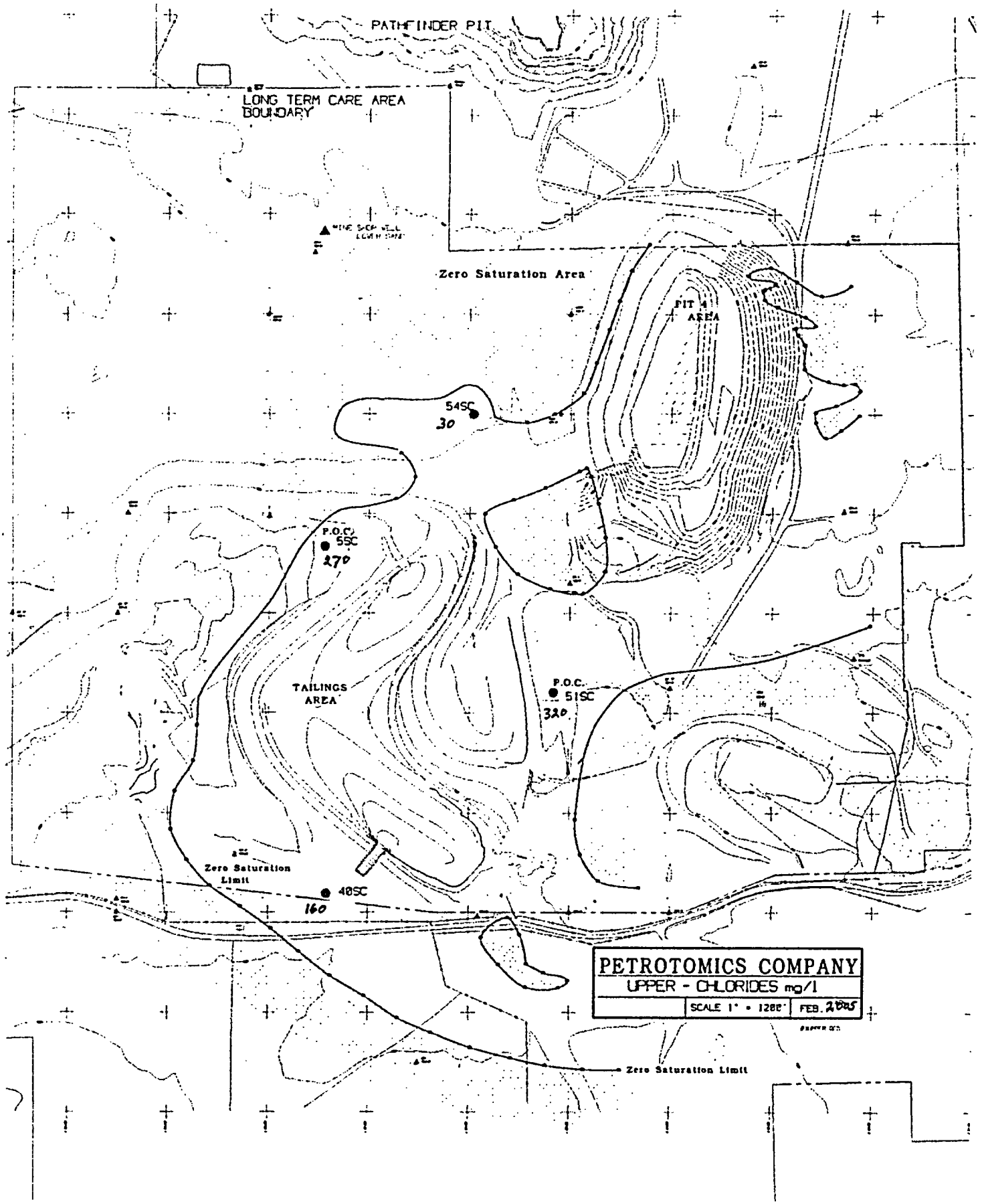

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT 4 AREA
6930'
6940'
6950'
6960'
6970'
6980'
6990'
7000'
7010'
7020'
7030'
7040'
7050'
BEEF COLLECTION
TAILINGS AREA
Zero Saturation Limit
Zero Saturation Limit
57SC
DRY
59SC
58SC
43SC
DRY
55SC
7001.2
41SC
7039.0
40SC
7058.4
39SC
7063.1
53SC
7025.9
45SC
7038.2
PETROTOMICS COMPANY
UPPER - WATER ELEVATION
SCALE 1" = 1200'
DATA 2nd HALF 1999

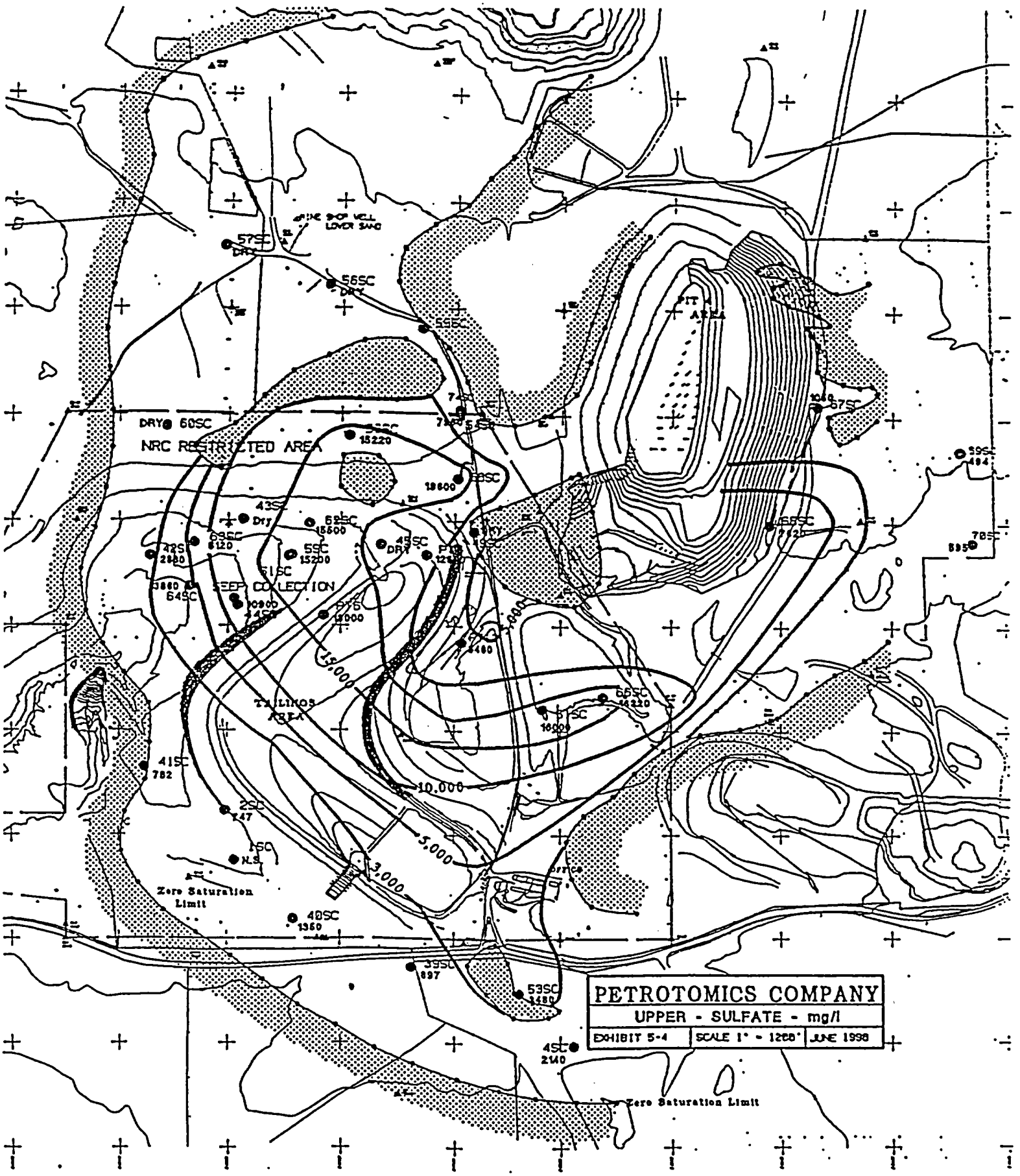

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT AREA
54SC
6951.2
P.O.C.
5DC
P.O.C.
5SC
7001.4
P.O.C.
19DC
TAILINGS AREA
P.O.C.
51SC
6999.3
P.O.C.
10DC
Zero Saturation Limit
40SC
7098.9
PETROTOMICS COMPANY
UPPER SAND WATER ELEVATIONS
SCALE 1" = 1200'
FEB. 2005
Zero Saturation Limit


PATHFINDER PIT
LONG TERM CARE
AREA BOUNDARY
17DC
9DC
PIT
13DC
11DC
18DC
8DC
5DC
6930'
Estimated
Zero
Saturation
Limit
19DC
14DC
15DC
16DC
10DC
TAILINGS
Zero
Satu
ration
Limit
6940' Est.
MAIN - Zero Saturation
PETROTOMICS COMPANY
MAIN- Water Elevations
Scale 1"=1200'
Date 2nd half 1999


PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT 4 AREA
6936.9
50C
6938.1
190C
6939.7
100C
TAILINGS AREA
PETROTOMICS COMPANY
MAIN - WATER ELEVATIONS
SCALE 1" = 1200'
FEB. 2005


PETROTOMICS COMPANY
UPPER - CHLORIDES - mg/l
EXHIBIT 5-2
SCALE 1" = 1200'
JUNE 1998
NRC RESTRICTED AREA
TAILINGS AREA
SEEP COLLECTION
Zero Saturation Limit
Zero Saturation Limit
57SC
56SC
55SC
60SC
59SC
58SC
43SC
62SC
63SC
42SC
59C
61SC
64SC
45SC
67SC
66SC
41SC
40SC
39SC
53SC
45C
100
300
500


PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT 4 AREA
54SC
30
P.O.C.
55SC
270
TAILINGS AREA
P.O.C.
51SC
320
Zero Saturation Limit
40SC
160
PETROTOMICS COMPANY
UPPER - CHLORIDES mg/l
SCALE 1" = 1280'
FEB. 2005
Zero Saturation Limit


PETROTOMICS COMPANY
UPPER - SULFATE - mg/l
EXHIBIT 5-4
SCALE 1" = 1200'
JUNE 1998
NRC RESTRICTED AREA
SEEP COLLECTION
TAILINGS AREA
PIT AREA
Zero Saturation Limit
Zero Saturation Limit
15,000
10,000
5,000
3,000
DRY 60SC
57SC
56SC
55SC
43SC
62SC
63SC
42SC
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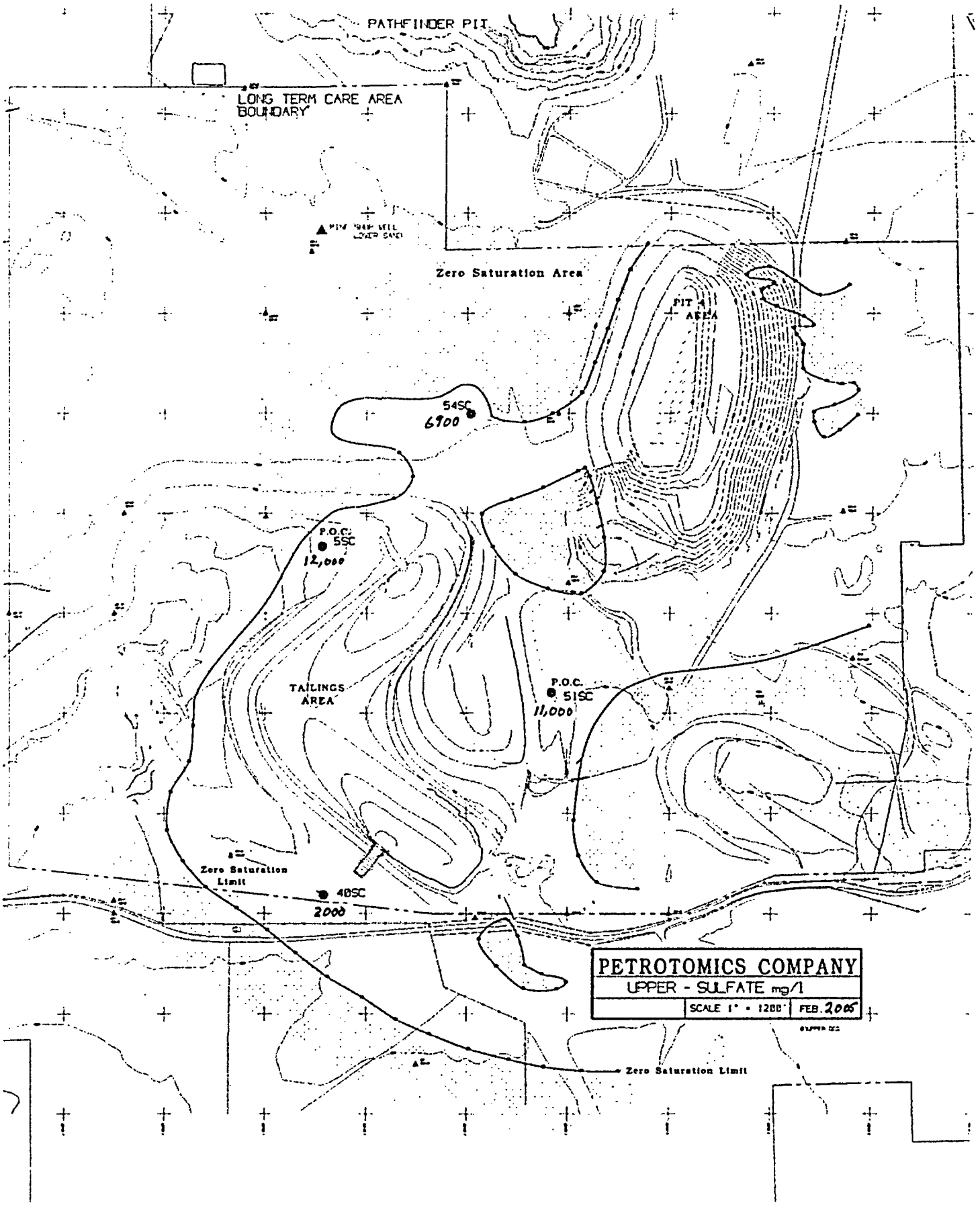
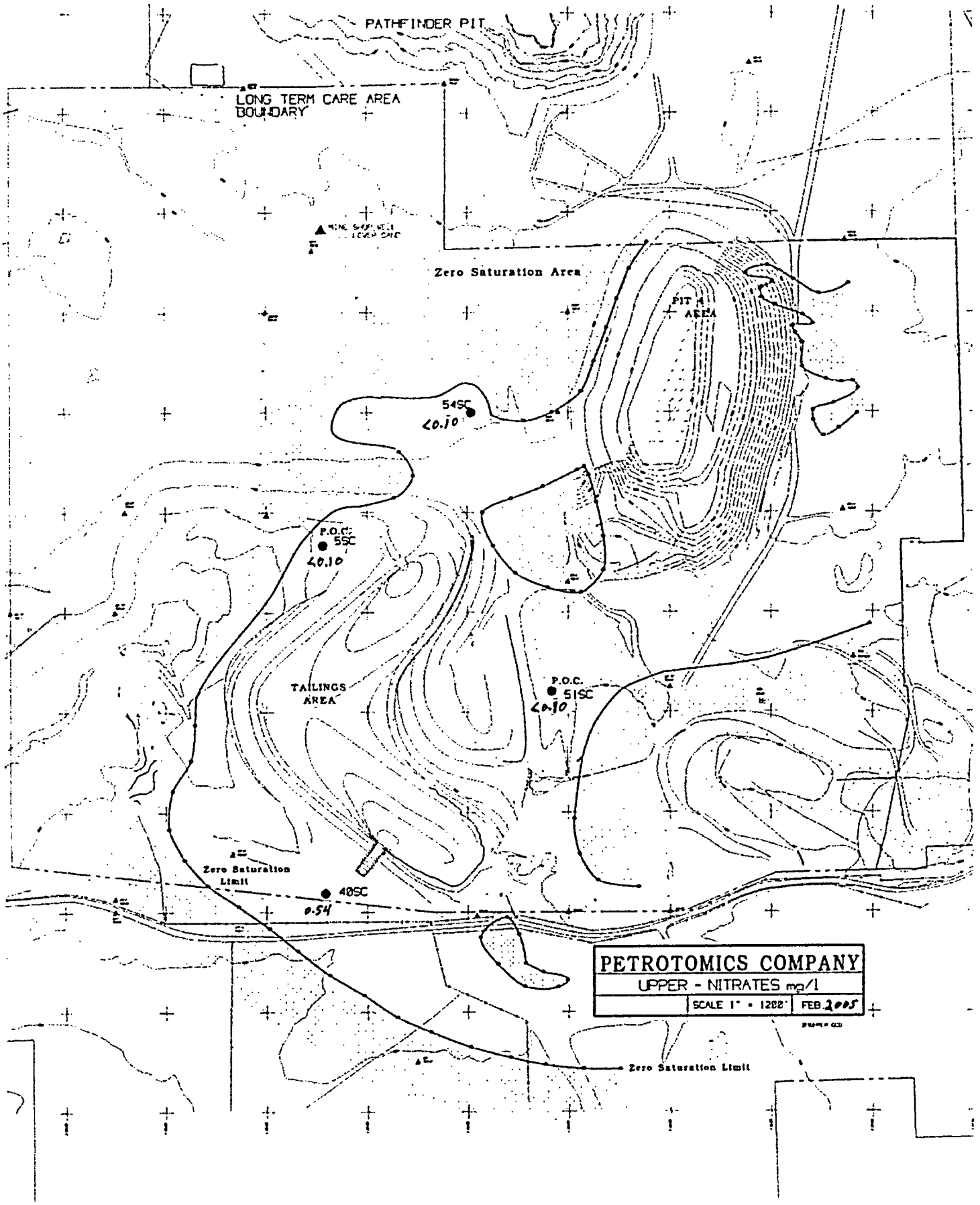
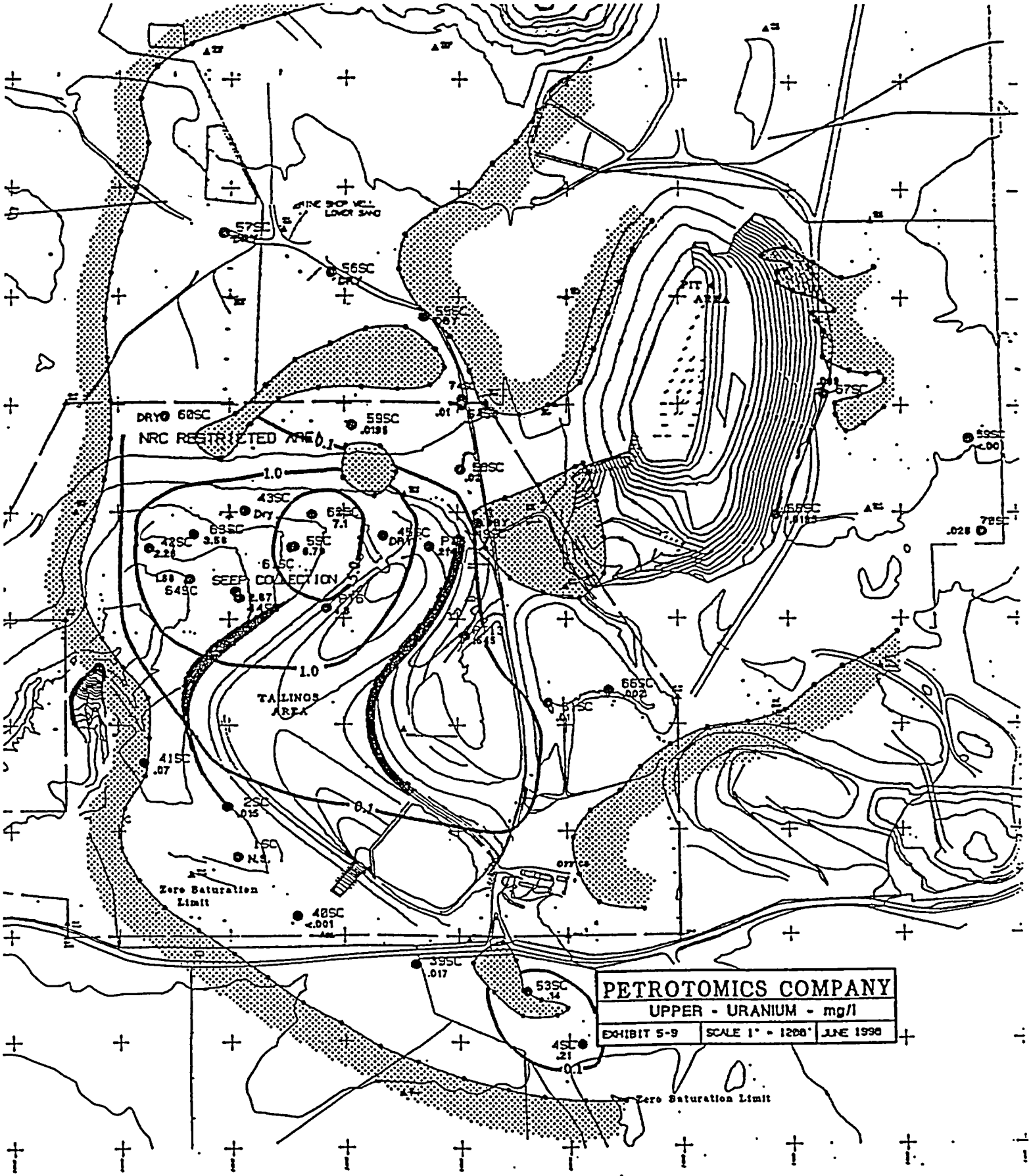
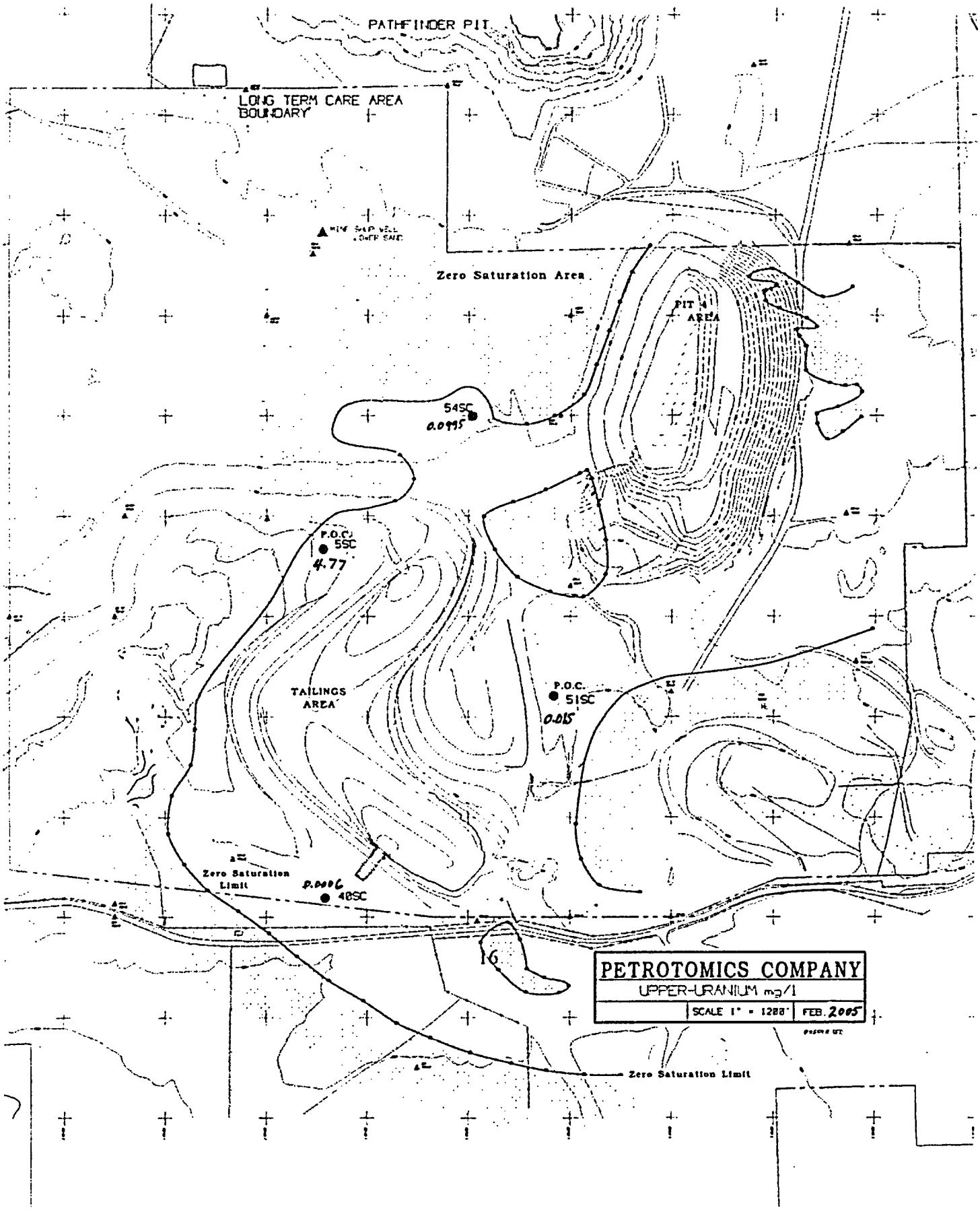
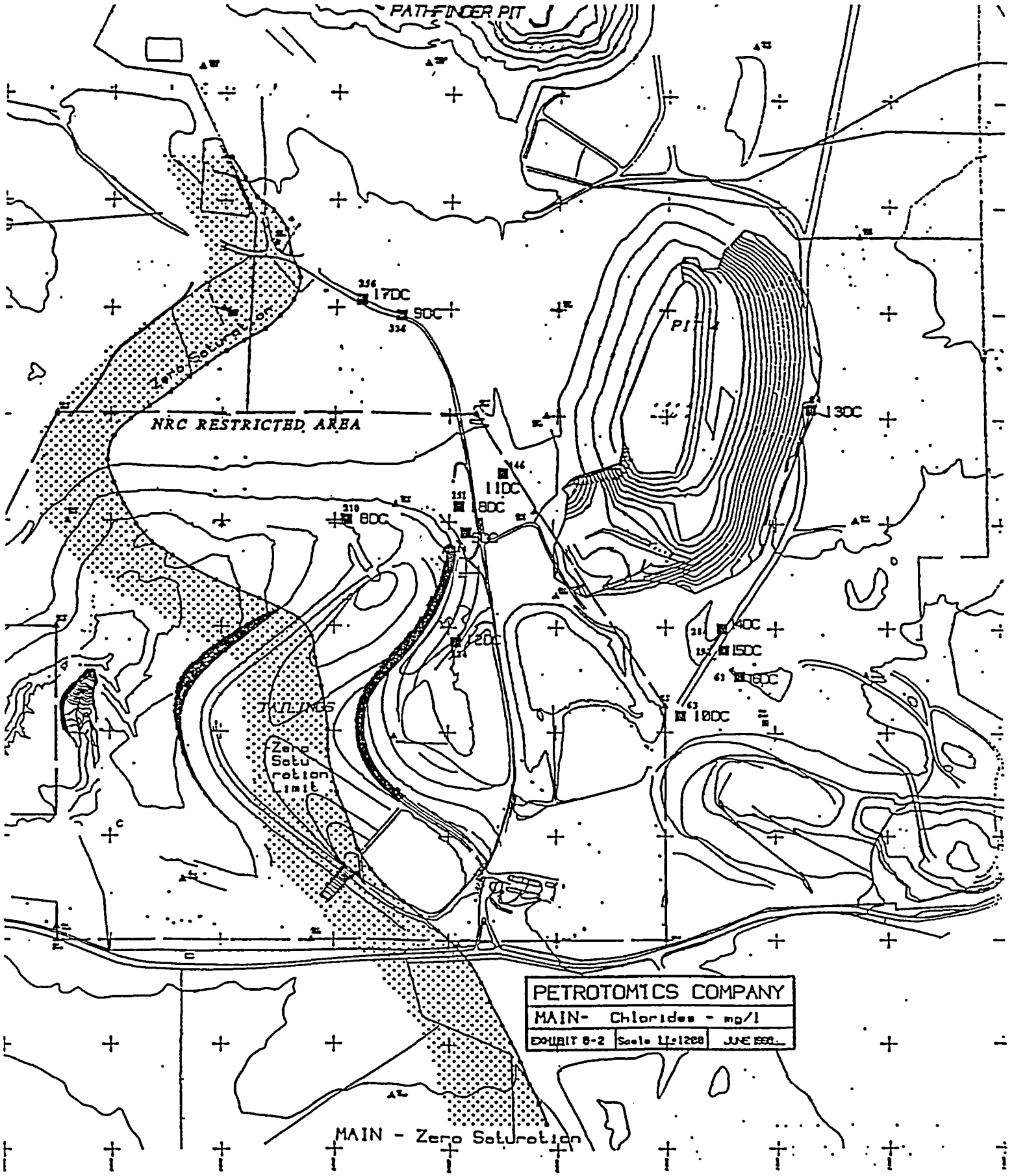
67SC
59SC
70SC

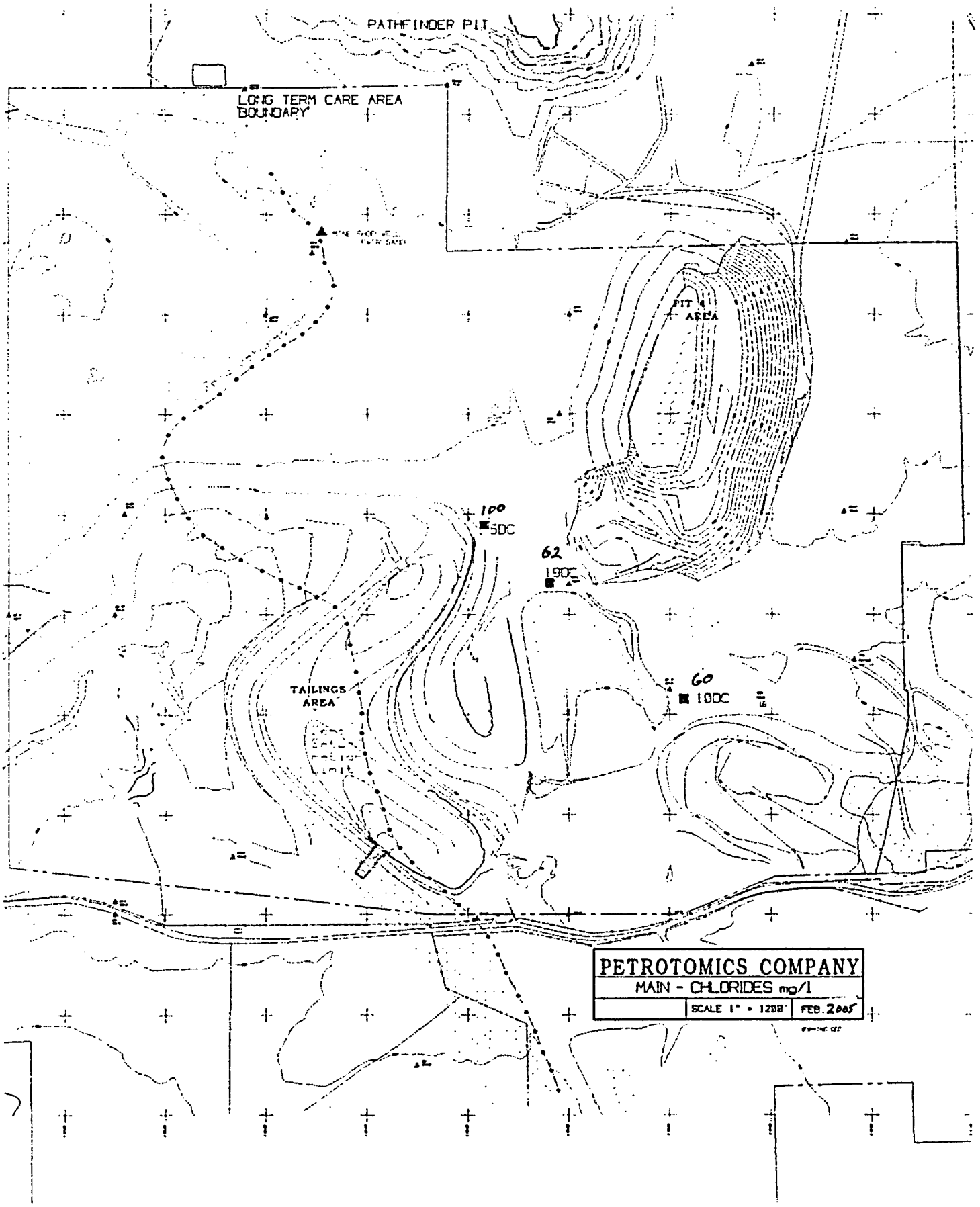

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT AREA
54SC
6900
P.O.C.
55C
12,000
TAILINGS AREA
P.O.C.
51SC
11,000
Zero Saturation Limit
40SC
2000
PETROTOMICS COMPANY
UPPER - SULFATE mg/l
SCALE 1" = 1200'
FEB. 2005
Zero Saturation Limit

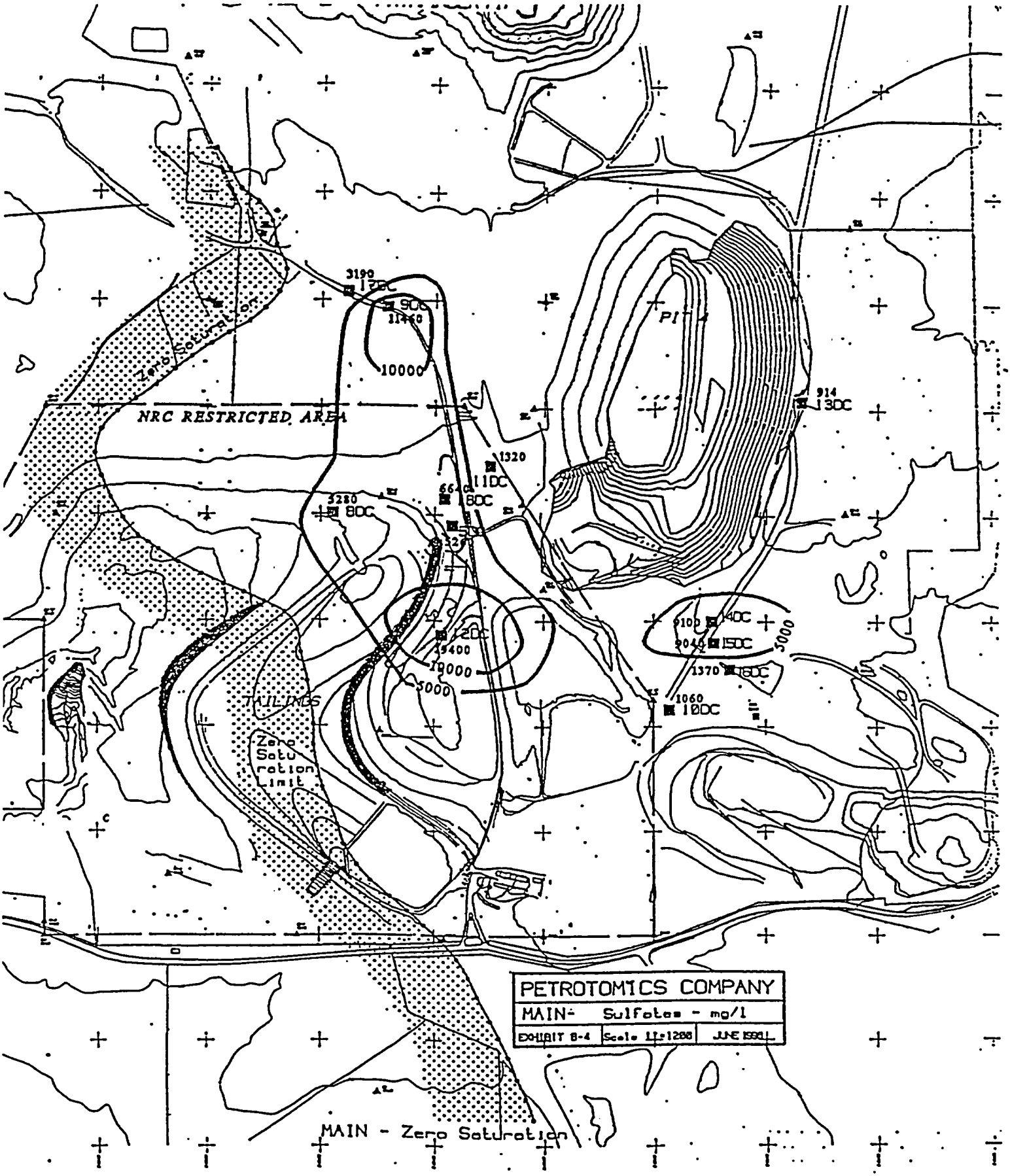

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT AREA
54SC
<0.10
P.O.C.
55C
<0.10
TAILINGS AREA
P.O.C.
51SC
<0.10
Zero Saturation Limit
40SC
0.54
PETROTOMICS COMPANY
UPPER - NITRATES mg/l
SCALE 1" = 1200'
FEB. 2005
Zero Saturation Limit

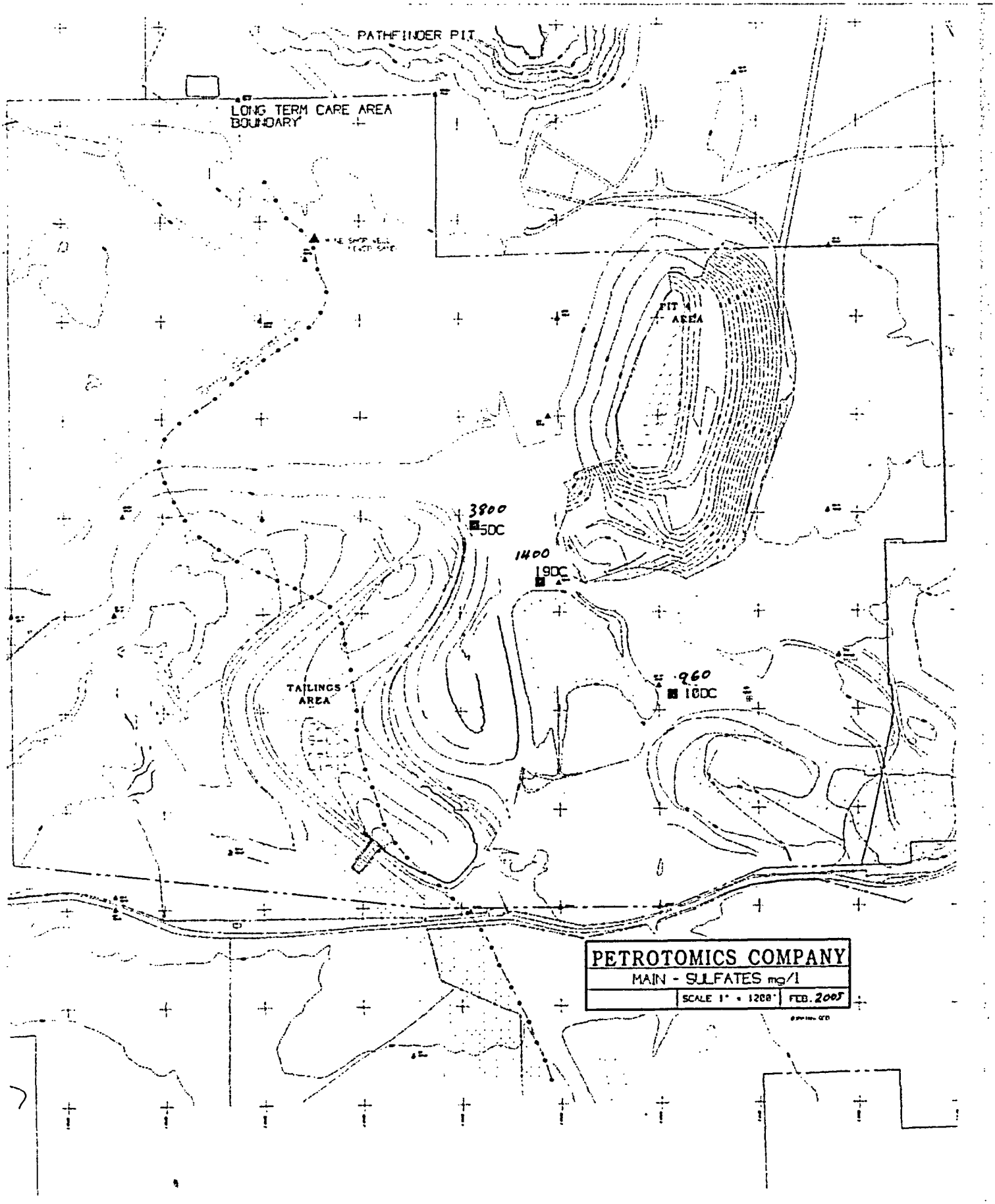

PETROTOMICS COMPANY
UPPER - URANIUM - mg/l
EXHIBIT 5-9
SCALE 1" = 1200'
JUNE 1998
NRC RESTRICTED AREA
SEEP COLLECTION
TAILINGS AREA
PIT AREA
Zero Saturation Limit
Zero Saturation Limit
1.0
1.0
0.1
0.1
0.1
DRY 60SC
59SC
.0198
58SC
.02
43SC
Dry
62SC
7.1
63SC
3.56
42SC
2.26
55SC
6.7
45SC
DRY
64SC
2.67
66SC
.002
41SC
.07
25C
.015
40SC
<.001
39SC
.017
53SC
.14
45C
.21
57SC
56SC
DRY
55SC
DRY
68SC
.0185
78SC
.028
59SC
.00
office

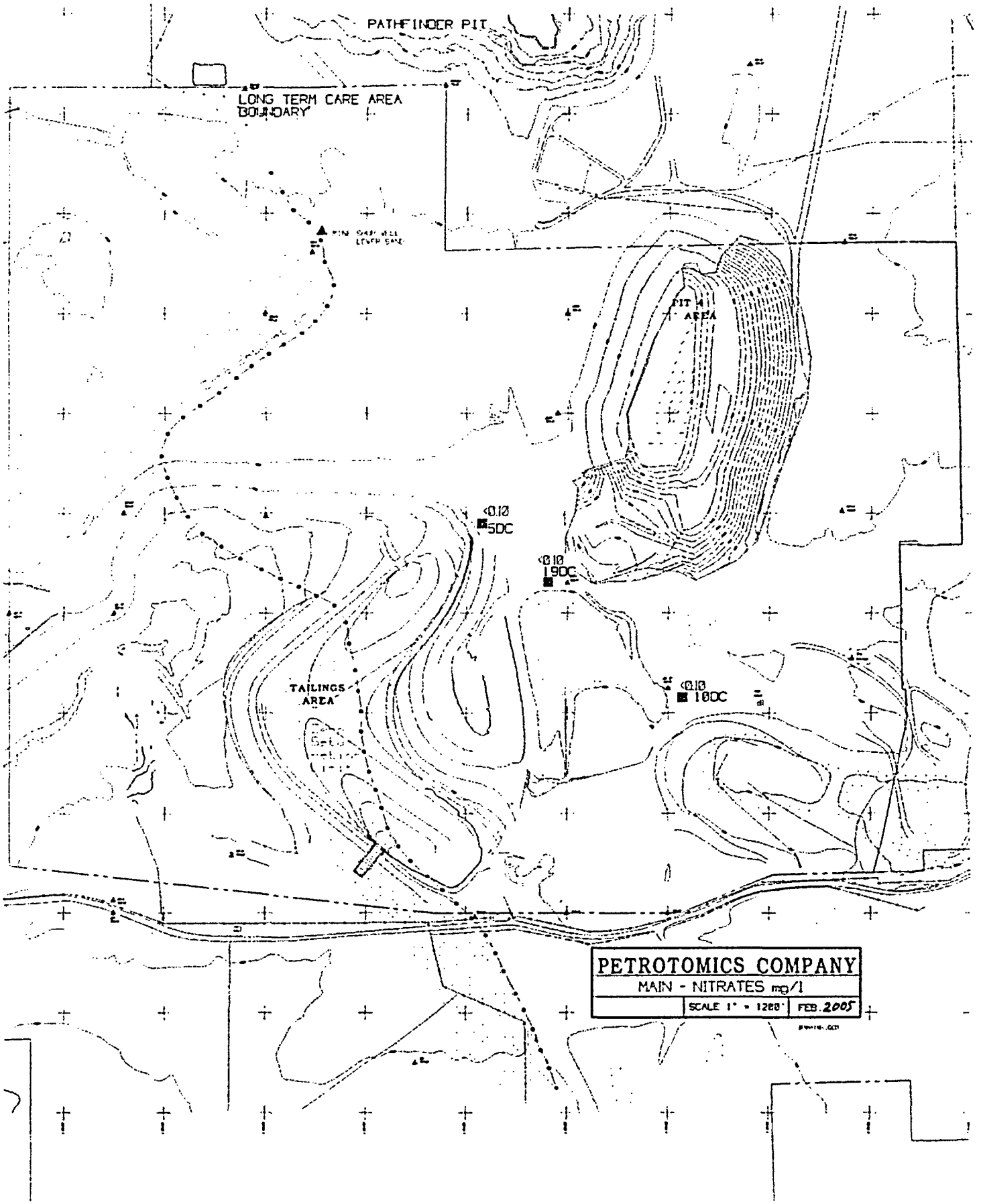

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
Zero Saturation Area
PIT AREA
54SC
0.0995
P.O.C.
55C
4.77
TAILINGS AREA
P.O.C.
51SC
0.015
Zero Saturation Limit
0.0006
40SC
16
PETROTOMICS COMPANY
UPPER-URANIUM mg/l
SCALE 1" = 1200'
FEB. 2005
Zero Saturation Limit

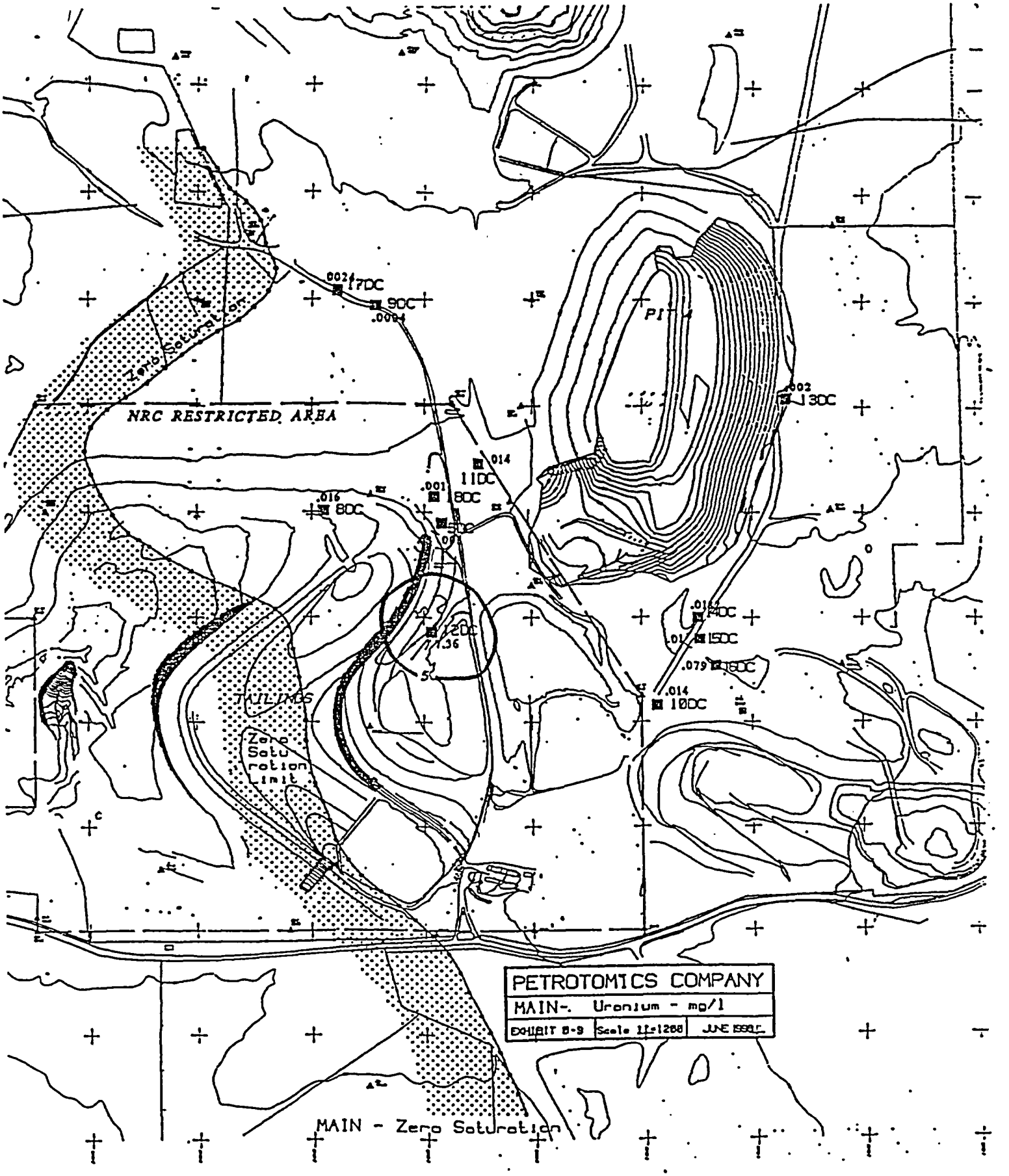

PATHFINDER PIT
Zero Saturation
NRC RESTRICTED AREA
170C
90C
PI
130C
110C
80C
80C
120C
140C
150C
160C
100C
TAILINGS
Zero Saturation Limit
PETROTOMICS COMPANY
MAIN- Chlorides - mg/l
EXHIBIT 8-2
Scale 1:1200
JUNE 1996
MAIN - Zero Saturation


PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT AREA
100
5DC
62
19DC
60
10DC
TAILINGS AREA
PETROTOMICS COMPANY
MAIN - CHLORIDES mg/l
SCALE 1" = 1200'
FEB. 2005


NRC RESTRICTED AREA
Zero Saturation
TAILINGS
Zero Saturation Limit
PI
3190
12DC
9DC
11460
10000
1320
11DC
6640
8DC
3280
8DC
12DC
19400
10000
5000
9100
14DC
9040
15DC
5000
1370
16DC
1060
10DC
914
13DC
PETROTOMICS COMPANY
MAIN- Sulfates - mg/l
EXHIBIT B-4
Scale 1:=1200
JUNE 1996
MAIN - Zero Saturation


PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT 4 AREA
3800
50C
1400
19DC
960
16DC
TAILINGS AREA
PETROTOMICS COMPANY
MAIN - SULFATES mg/l
SCALE 1" = 1200'
FEB. 2005


PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT AREA
<0.10
5DC
<0.10
19DC
TAILINGS AREA
<0.10
10DC
PETROTOMICS COMPANY
MAIN - NITRATES mg/l
SCALE 1" = 1200'
FEB. 2005


PETROTOMICS COMPANY
MAIN-. Uranium - mg/l
EXHIBIT B-9
Scale 1:1200
JUNE 1990
NRC RESTRICTED AREA
TAILINGS
Zero Saturation Limit
Zero Saturation
PIT 4
MAIN - Zero Saturation

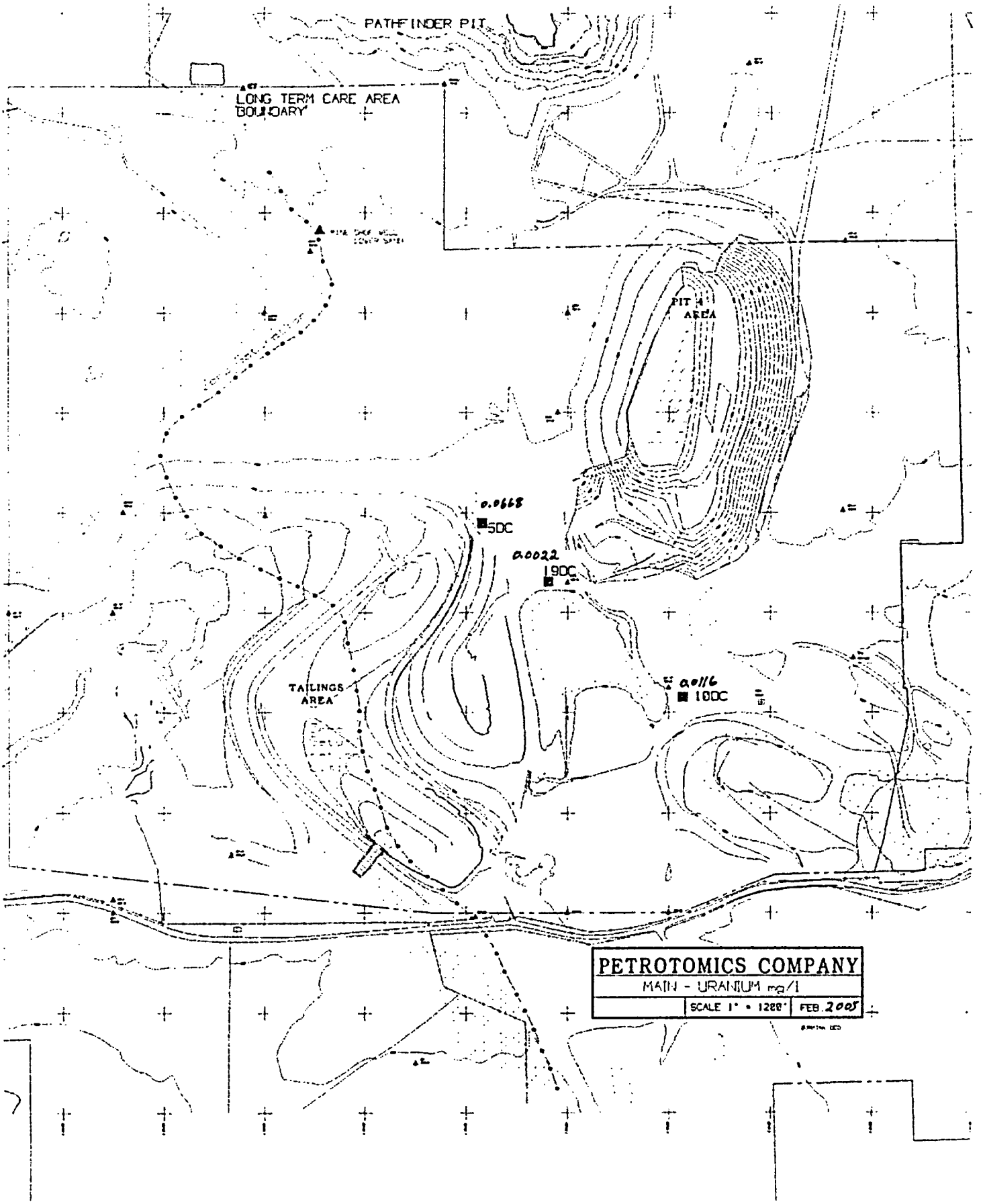
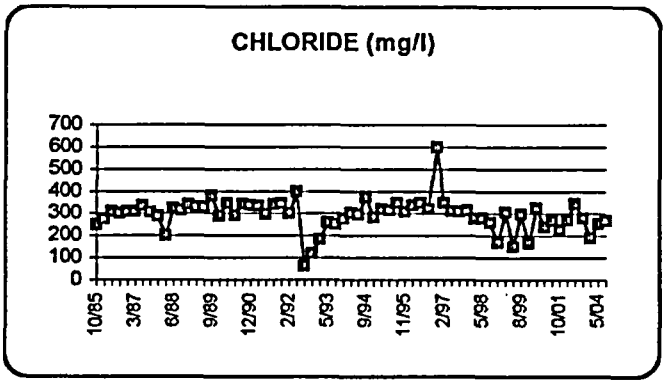

PATHFINDER PIT
LONG TERM CARE AREA BOUNDARY
PIT AREA
0.0668
5DC
0.0022
19DC
TAILINGS AREA
0.0116
10DC
PETROTOMICS COMPANY
MAIN - URANIUM mg/l
SCALE 1" = 1200'
FEB. 2005

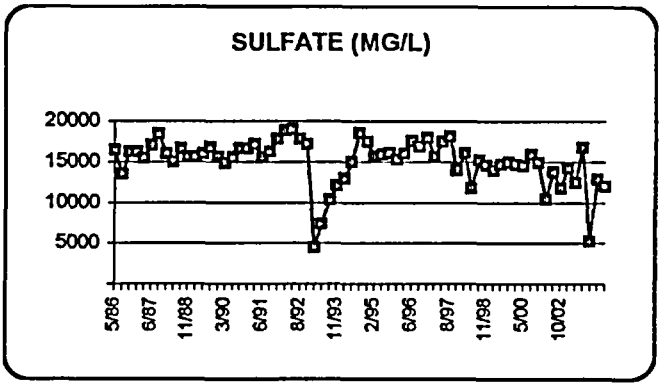
Table 1
POC WELL DATA

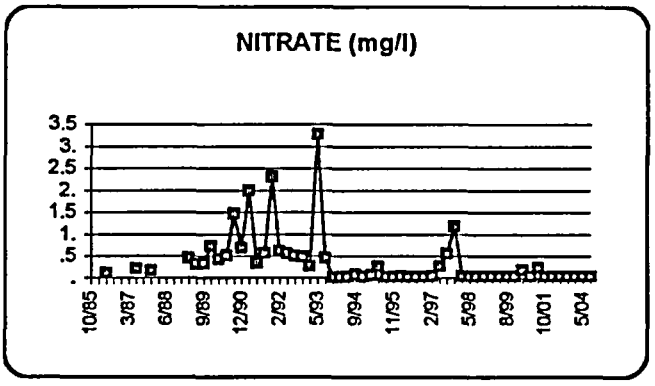
	Cadmium	Chromium	Lead	Nickel	Selenium	Uranium	Radium 226	Radium 228	Thorium 230	pH	TDS	Chloride	Sulfate
ACL Standard	0.079	1.83	0.05	6.15	0.120*	9.200	91.3	25.7	2409	None	None	None	None
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pCi/l	pCi/l	pCi/l	Standard Units	mg/l	mg/l	mg/l
5-SC													
Sampling Date													
Nov-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.04	22700	168	14700
Feb-99	0.05	0.81	0.013	3.84	0.051	7.750	13.4	<1.0	530.0	3.21	22500	307	15000
May-99	0.05	NS	NS	NS	0.052	NS	NS	NS	NS	3.13	22300	151	14700
Aug-99	0.05	0.52	<0.005	2.61	0.021	6.130	40.2	<1.0	245.0	4.83	22500	298	14500
Oct-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.18	22600	166	15900
May-00	0.060	0.68	<0.005	3.62	0.014	7.980	2.2	<1.0	301.0	3.02	22300	328	14900
Nov-00	0.058	0.58	<0.005	3.56	0.027	6.490	43.3	<1.0	500.0	3.18	20400	240	10400
May-01	0.050	0.57	<0.005	3.44	0.028	6.030	38.1	<1.0	311.0	3.20	21900	271	13800
Oct-01	0.078	0.49	<0.005	3.20	0.028	5.860	25.0	<1.0	310.0	3.40	21000	229	11800
May-02	0.037	0.192	0.004	0.380	0.028	5.530	126.0	<1.0	250.0	3.48	20100	272	14300
Oct-02	0.055	0.431	0.001	2.910	0.024	5.320	54.4	<1.0	299.0	3.45	17100	346	12500
May-03	0.057	0.434	0.002	2.900	0.041	5.220	29.0	<1.0	154.0	3.36	21200	282	16600
Oct-03	0.047	0.457	>0.001	2.520	0.036	5.760	9.8	2.1	1010.0	3.37	19100	191	5240
May-04	0.045	0.422	>0.001	2.970	0.055	5.190	9.2	<1.0	603.0	3.28	19400	254	12900
Oct-04	0.060	0.400	>0.001	3.060	0.070	4.770	3.3	<1.0	129.0	3.20	19500	270	12000
51-SC													
Sampling Date													
Nov-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.47	22500	188	14200
Feb-99	<0.01	<0.01	<0.005	3.90	<0.001	0.056	7.0	5.3	2.6	3.61	22200	337	15000
May-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.34	21500	190	15700
Aug-99	<0.005	0.92	<0.005	3.51	<0.001	0.021	6.0	1.0	3.1	3.46	20900	325	13600
Oct-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.55	21100	180	14700
May-00	0.006	0.99	0.008	3.71	<0.001	0.046	10.4	4.8	5.9	3.83	20400	320	13500
Nov-00	<0.010	0.73	<0.005	3.61	<0.001	0.016	7.4	<1.0	2.9	3.36	19600	270	9490
May-01	<0.010	0.72	<0.005	2.93	<0.001	0.014	6.7	<1.0	2.0	6.02	19900	322	12400
Oct-01	<0.010	0.59	<0.005	3.00	<0.001	0.022	6.3	2.0	5.2	3.40	19200	330	10800
May-02	<0.001	0.55	0.002	2.87	<0.001	0.024	5.7	<1.0	6.6	3.39	18900	327	13200
Oct-02	0.007	0.43	<0.001	2.46	<0.001	0.013	9.1	<1.0	1.7	3.44	14400	335	11100
May-03	<0.001	0.47	<0.001	2.51	0.020	0.016	4.7	<1.0	2.1	3.42	20300	332	6280
Oct-03	0.001	0.52	<0.001	2.08	0.018	0.016	1.8	<1.0	3.2	3.60	18500	243	12500
May-04	0.002	0.42	<0.001	2.73	0.048	0.015	2.0	<1.0	2.6	3.30	17600	304	11500
Oct-04	0.030	0.42	<0.001	2.42	0.040	0.015	1.3	<1.0	<0.2	3.10	17700	320	11000
5-DC													
Sampling Date													
Nov-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.50	7170	91	4750
Feb-99	<0.01	<0.01	<0.005	0.77	<0.001	0.076	8.3	15.5	<0.2	4.65	7240	119	4850
May-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.60	7250	91	4400
Aug-99	0.006	<0.01	<0.005	0.80	0.002	0.001	11.6	25.3	<0.2	4.47	7170	124	4650
Oct-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.54	7200	92	4450
May-00	<0.005	0.03	<0.005	0.89	<0.001	0.006	22.3	21.1	0.8	4.71	7250	104	4720
Nov-00	<0.01	0.05	0.027	1.07	0.011	0.022	10.3	6.9	2.6	4.00	7230	96	4490
May-01	<0.01	0.15	0.023	1.40	<0.001	0.062	10.4	12.8	12.5	3.07	7580	94	4810
Oct-01	0.019	0.15	0.037	1.23	<0.001	0.064	22.0	11.0	17.0	3.50	7180	99	3900
May-02	0.004	0.135	0.033	0.40	<0.001	0.060	21.6	9.8	11.5	3.50	7560	89	5060
Oct-02	0.007	0.116	0.020	1.18	<0.001	0.064	16.5	3.4	7.3	3.59	6180	93	4500
May-03	0.013	0.119	0.009	1.42	0.001	0.045	12.4	6.7	2.0	3.52	1810	83	5090
Oct-03	0.018	0.080	0.006	1.26	<0.001	0.033	7.4	8.1	4.3	3.73	7350	79	5170
May-04	0.017	0.038	0.003	1.02	<0.001	0.041	6.7	8.2	0.7	3.80	6910	94	4630
Oct-04	<0.01	<0.01	<0.05	0.71	0.008	0.067	6.1	14.2	0.5	4.04	6620	100	3800
19-DC													
Sampling Date													
Oct-98	<0.01	<0.01	<0.005	0.22	0.004	0.003	9.0	6.4	<0.2	6.88	2880	80	1780
Feb-99	<0.01	<0.01	<0.005	0.17	<0.001	0.008	8.9	6.6	<0.2	6.90	2810	74.1	1650
May-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.39	2880	70.4	1730
Aug-99	<0.005	<0.01	<0.005	0.21	0.003	0.002	9.4	7.2	<0.2	4.54	2710	81.8	1700
Oct-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.55	2650	68.6	1640
May-00	0.011	<0.01	0.006	0.21	<0.001	0.0042	11.2	5.7	<0.2	6.87	2660	72.2	1660
Nov-00	<0.010	<0.01	<0.005	0.19	<0.001	0.0031	9.2	6.1	<0.2	6.34	2580	58.2	1190
May-01	<0.01	<0.01	<0.005	0.15	<0.001	0.0014	6.5	5.3	<0.2	6.02	2500	66.0	1440
Oct-01	<0.01	<0.01	<0.005	0.16	<0.001	0.0025	10.0	5.5	0.3	6.50	2580	61.4	1400
May-02	<0.001	<0.001	<0.001	0.15	<0.001	0.0016	11.0	6.0	<0.20	6.40	2620	67.4	1640
Oct-02	<0.001	<0.001	<0.001	0.14	<0.001	0.0020	10.5	<1.0	<0.20	6.43	2210	64.2	1410
May-03	<0.001	0.001	<0.001	0.15	<0.001	0.0020	8.5	2.5	0.4	6.24	2570	59.2	1650
Oct-03	<0.001	0.003	<0.001	0.19	<0.001	0.0030	10.1	4.5	0.2	6.50	2490	59.1	1530
May-04	<0.001	<0.001	<0.001	0.12	<0.001	0.0020	7.4	4.8	0.9	6.36	2610	58.4	1590
Oct-04	<0.01	<0.05	<0.05	0.13	0.002	0.0022	7.9	4.9	<0.20	6.24	2500	62.0	1400
	Compliance Monitoring Program (CMP) began October 6, 1998 with the approval of the ACL's, Amendment 63, License Condition 47 B.												
NS	Not Sampled - Sampling done in accordance with License Condition 47 A.												
*	Selenium standard modified by License Amendment No. 75 dateded September 27, 2002.												

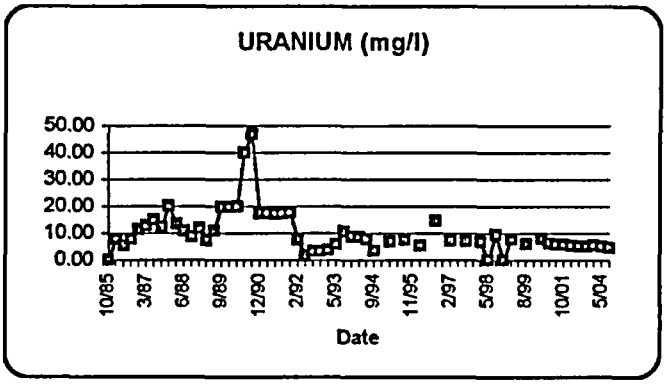
WELL 5SC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Oct-85	250	16450		0.08
01-Mar-86	275	13480		7.90
01-May-86	310	16200	.11	5.50
01-Sep-86	300	16250		7.77
01-Nov-86	309	15420		11.40
01-Mar-87	311	17000		12.80
01-May-87	336	18400	.21	15.00
01-Jun-87	307	16000		12.40
01-Sep-87	291	15000	.17	20.20
01-Jan-88	201	16600		13.50
01-Jun-88	324	15600		11.00
01-Sep-88	316	15600		8.70
01-Nov-88	340	16000		11.80
01-Mar-89	331	16800	.47	7.30
01-May-89	330	15600	.32	11.00
01-Sep-89	381	14800	.33	19.70
01-Nov-89	290	15500	.74	19.70
01-Mar-90	348	16600	.43	20.10
01-Jun-90	293	16600	.52	39.90
01-Aug-90	344	17200	1.47	47.00
01-Dec-90	339	15500	.69	17.30
01-Feb-91	337	16200	2.	17.30
01-Jun-91	299	17800	.35	17.20
01-Sep-91	341	18800	.58	17.30
01-Dec-91	348	19000	2.31	17.80
01-Feb-92	300	17800	.62	7.52
01-Jul-92	399	17200	.56	1.59
01-Aug-92	64	4480	.51	3.22
01-Dec-92	121	7400	.49	3.31
01-Mar-93	184	10320	.27	3.73
01-May-93	261	12080	3.29	5.87
01-Aug-93	252	12960	.47	10.70
01-Nov-93	278	15000	.02	8.82
01-Mar-94	303	18600	.025	8.85
06-Jun-94	295	17500	.025	7.96
16-Sep-94	375	15700	.09	3.61
09-Dec-94	285	15900	.025	
28-Feb-95	320	16100	.07	7.00
17-May-95	315.	15300	.28	
29-Aug-95	350.	16000	.025	7.56
29-Nov-95	310.	17600	.025	
28-Feb-96	338.	16900	.05	5.55
05-Jun-96	350	18000	.025	
06-Aug-96	320	15600	.025	14.70
25-Nov-96	600	17500	.025	
19-Feb-97	350	18100	.05	7.35
22-May-97	313	14000	.28	
20-Aug-97	310	16100	.57	7.13
11-Nov-97	315	11800	1.18	
04-Feb-98	279	15200	0.050	6.79
20-May-98	280	14600	0.050	
26-Aug-98	262	14000	0.050	9.42
11-Nov-98	168	14700	0.050	
16-Feb-99	307	15000	0.050	7.75
19-May-99	151	14700	0.050	
24-Aug-99	298	14500	0.050	6.13
27-Oct-99	166	15900	0.050	
16-May-00	328	14900	0.190	7.98
21-Oct-00	240	10400	0.050	6.49
22-May-01	271	13800	0.240	6.03
01-Oct-01	229	11800	0.050	5.86
15-May-02	272	14300	0.050	5.53
16-Oct-02	346	12500	0.050	5.32
28-May-03	282	16800	0.050	5.22
08-Oct-03	191	5240	0.050	5.76
06-May-04	254	12900	0.05	5.19
15-Oct-04	270	12000	0.05	4.77

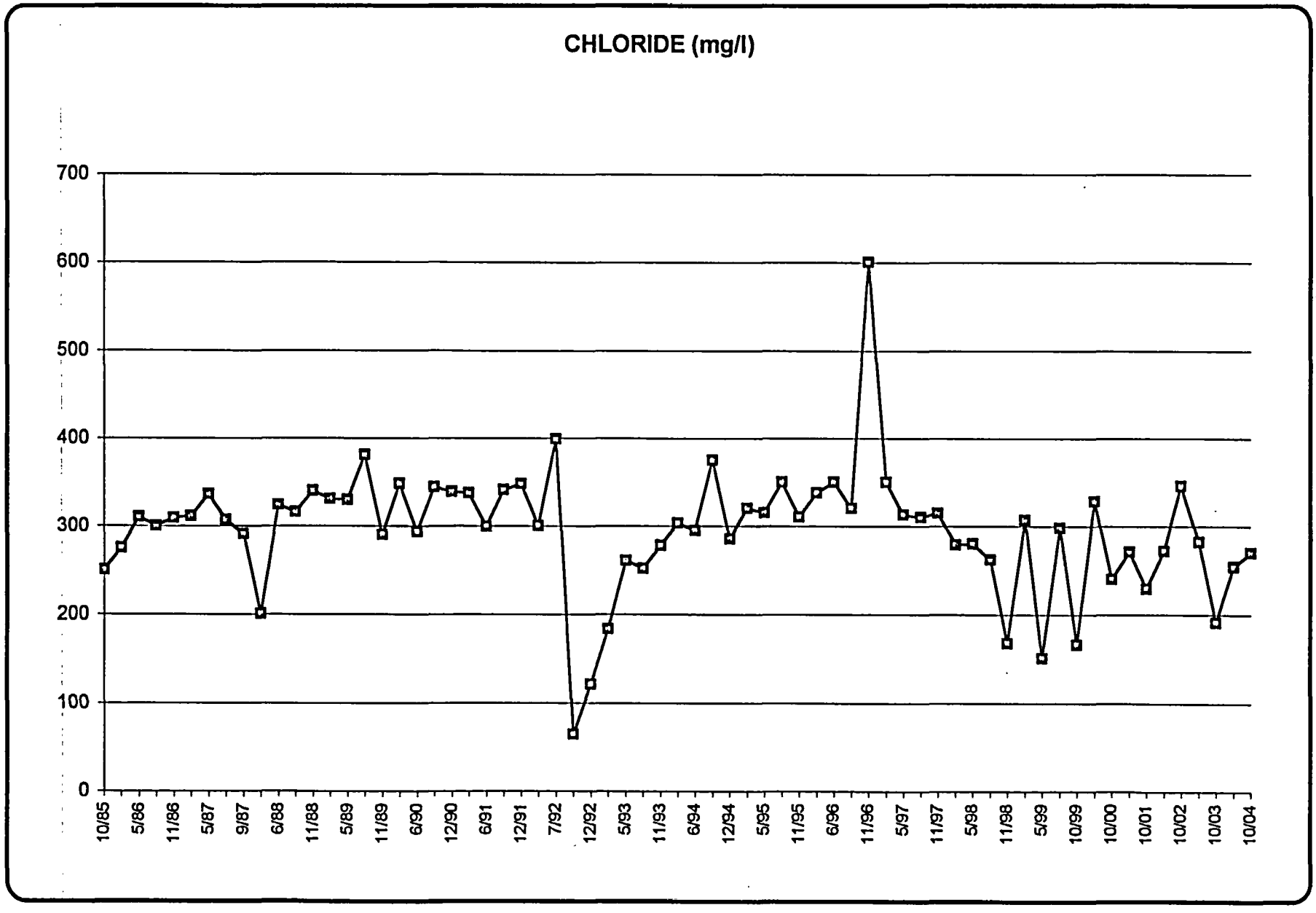








5-SC


CHLORIDE (mg/l)
700
600
500
400
300
200
100
0
10/85
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
12/92
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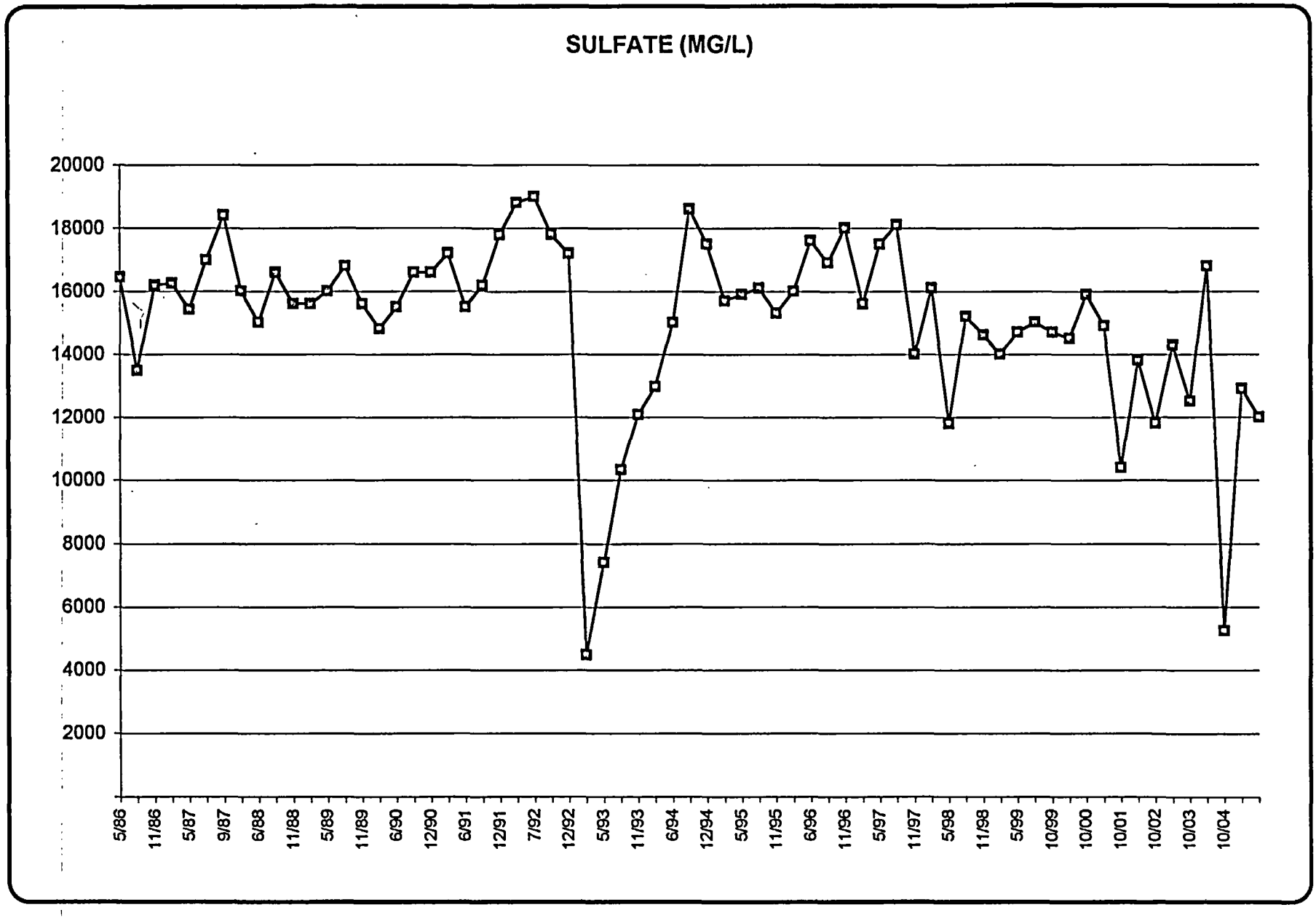
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04

5-SC


SULFATE (MG/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
12/92
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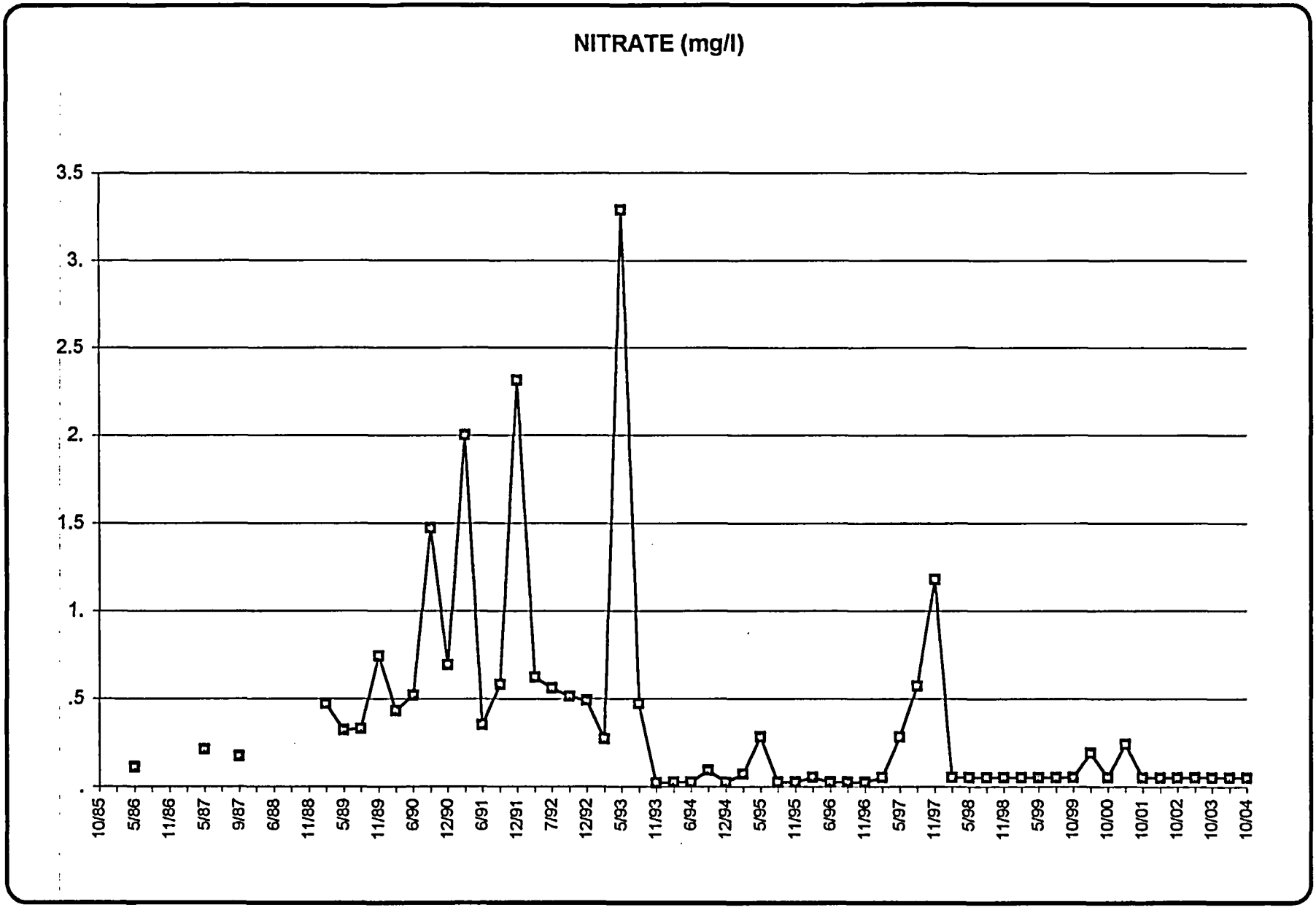
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04

5-SC


NITRATE (mg/l)
3.5
3.
2.5
2.
1.5
1.
.5
.
10/85
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
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6/96
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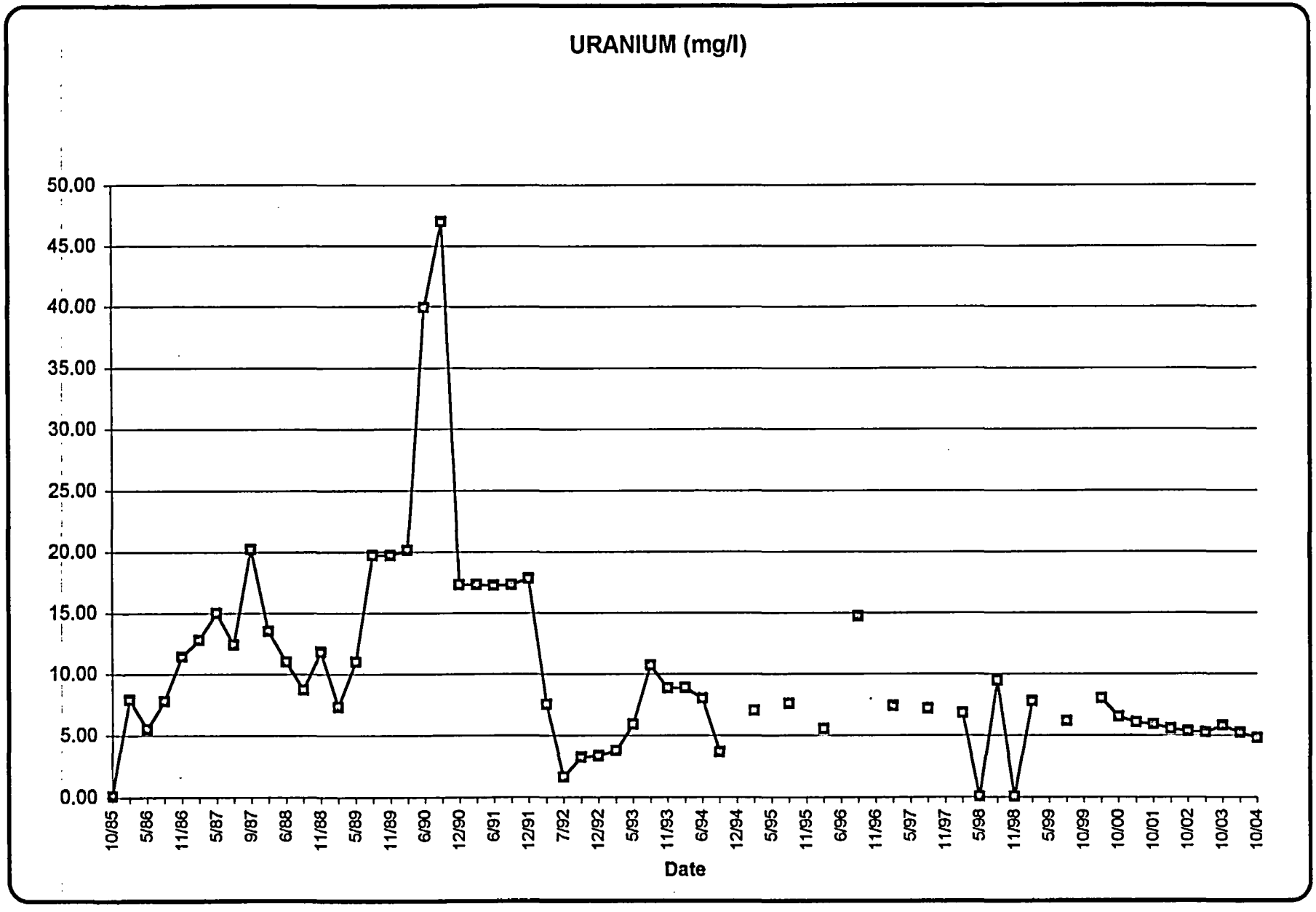
10/00
10/01
10/02
10/03
10/04

5-SC


URANIUM (mg/l)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/85
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
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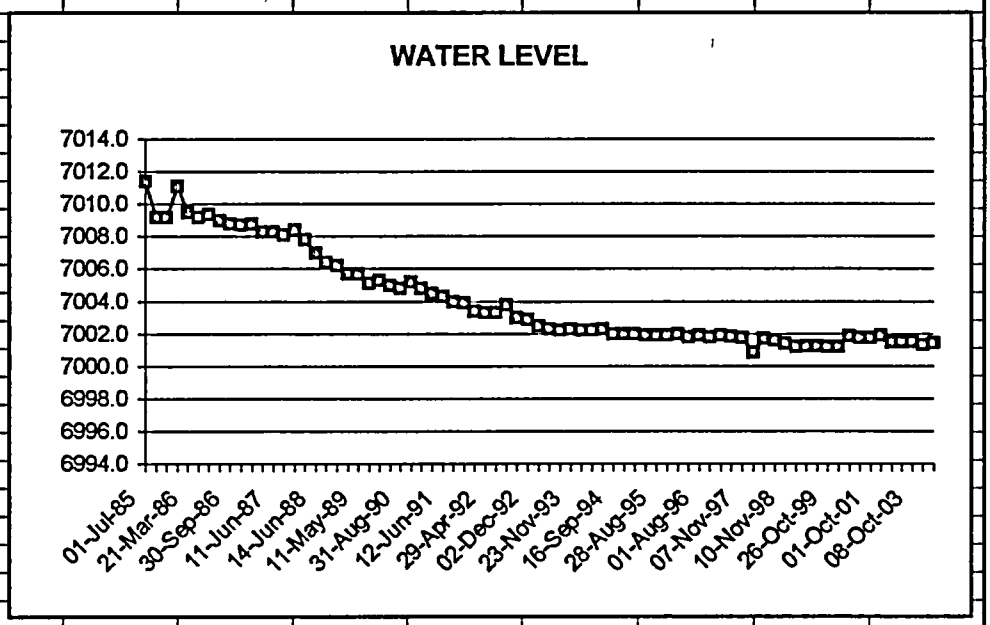
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04
Date

WATER LEVEL ELEVATIONS WELL 5SC

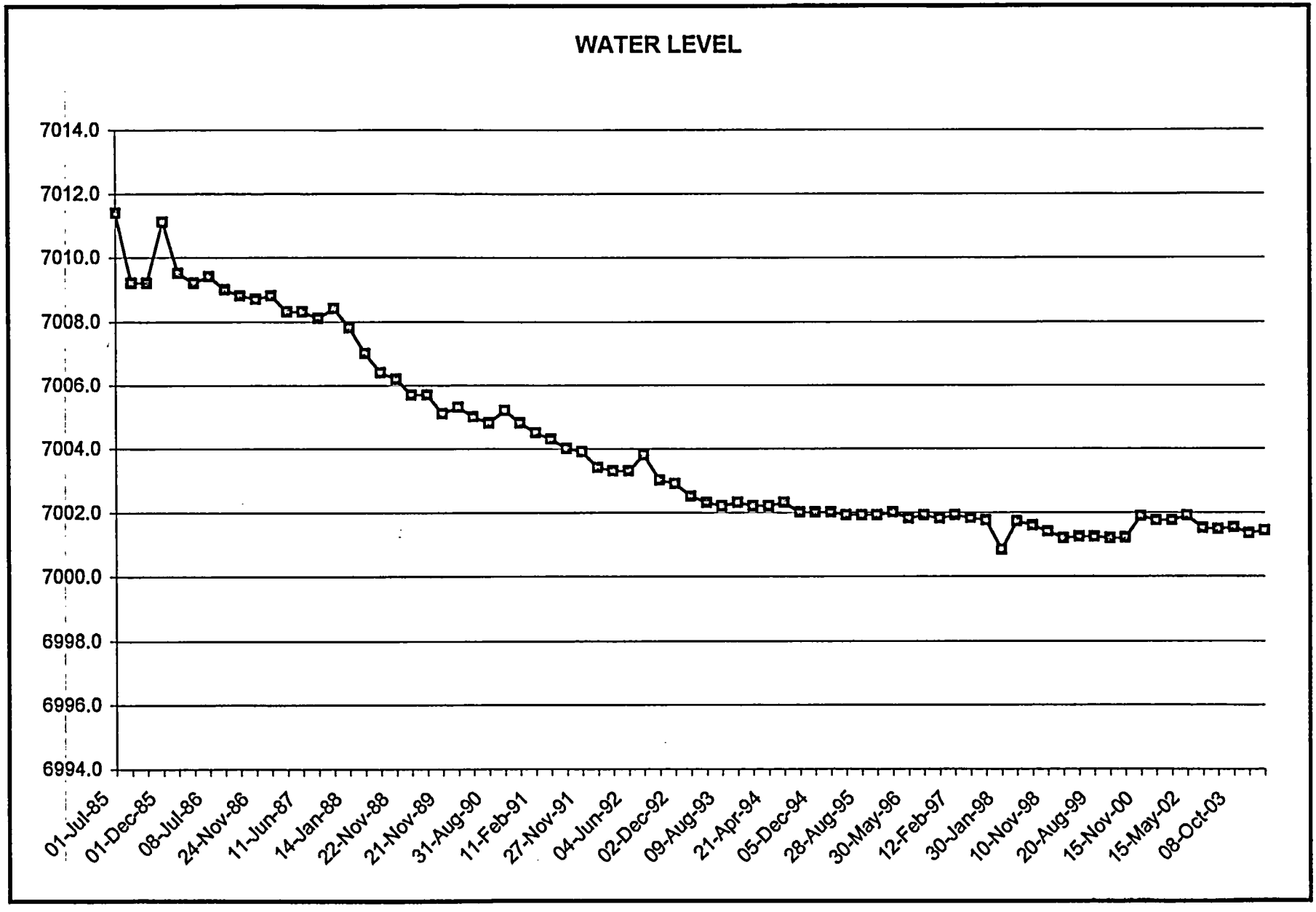
WELL 5SC		
DATE	W.L. ELEV	
01-Jul-85	7011.4	MP=7051.1
09-Sep-85	7009.2	
01-Oct-85	7009.2	
01-Dec-85	7011.1	
21-Mar-86	7009.5	
22-May-86	7009.2	
08-Jul-86	7009.4	
06-Aug-86	7009.0	
30-Sep-86	7008.8	
24-Nov-86	7008.7	
03-Mar-87	7008.8	
06-May-87	7008.3	
11-Jun-87	7008.3	
10-Sep-87	7008.1	
07-Oct-87	7008.4	
14-Jan-88	7007.8	
14-Jun-88	7007.0	
27-Sep-88	7006.4	
22-Nov-88	7006.2	
08-Mar-89	7005.7	
11-May-89	7005.7	
21-Nov-89	7005.1	
23-Feb-90	7005.3	
12-Jun-90	7005.0	
31-Aug-90	7004.8	
31-Oct-90	7005.2	
11-Dec-90	7004.8	
11-Feb-91	7004.5	
12-Jun-91	7004.3	
23-Sep-91	7004.0	
27-Nov-91	7003.9	
20-Feb-92	7003.4	
29-Apr-92	7003.3	
04-Jun-92	7003.3	
08-Jul-92	7003.8	
26-Aug-92	7003.0	
02-Dec-92	7002.9	
01-Mar-93	7002.5	
18-May-93	7002.3	
09-Aug-93	7002.2	
23-Nov-93	7002.3	
03-Mar-94	7002.2	
21-Apr-94	7002.2	
06-Jun-94	7002.3	
16-Sep-94	7002.0	
05-Dec-94	7002.0	
13-Feb-95	7002.0	
17-May-95	7001.9	
28-Aug-95	7001.9	
27-Nov-95	7001.9	
19-Feb-96	7002.0	
30-May-96	7001.8	
01-Aug-96	7001.9	
25-Nov-96	7001.8	
12-Feb-97	7001.9	
19-May-97	7001.8	
07-Nov-97	7001.8	
30-Jan-98	7000.8	



WATER LEVEL ELEVATIONS WELL 5SC

13-May-98	7001.7									
14-Aug-98	7001.6									
10-Nov-98	7001.4									
12-Feb-99	7001.2									
18-May-99	7001.2									
20-Aug-99	7001.2									
26-Oct-99	7001.2									
16-May-00	7001.2									
15-Nov-00	7001.9	MP=7057.3								
22-May-01	7001.7									
01-Oct-01	7001.8									
15-May-02	7001.9									
16-Oct-02	7001.5									
28-May-03	7001.5									
08-Oct-03	7001.5									
05-May-04	7001.3									
14-Oct-04	7001.4									

5-SC


WATER LEVEL
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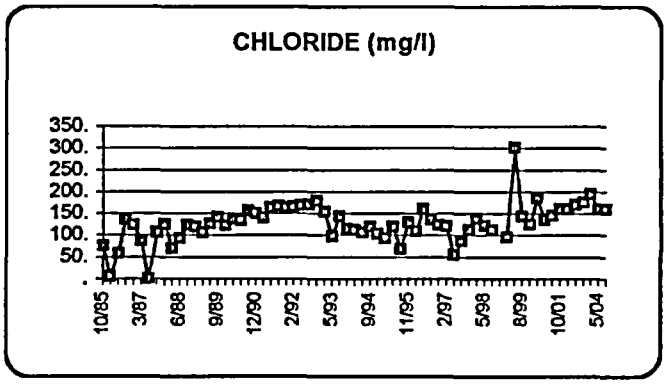
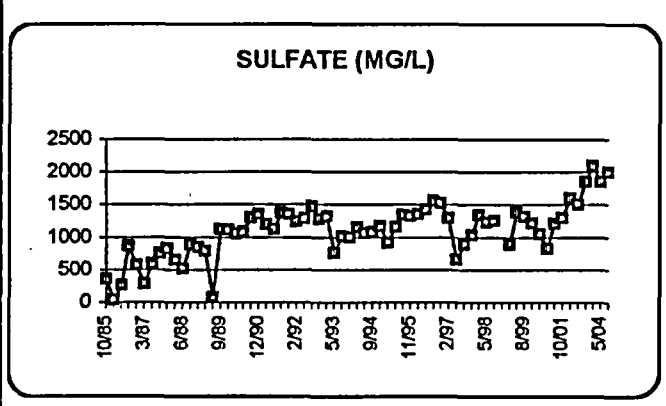
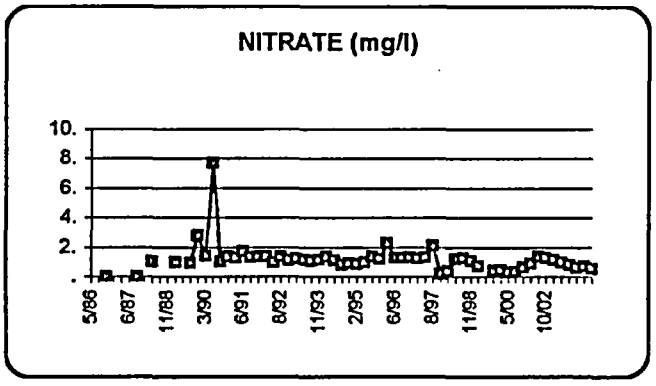
7012.0
7010.0
7008.0
7006.0
7004.0
7002.0
7000.0
6998.0
6996.0
6994.0
01-Jul-85
01-Dec-85
08-Jul-86
24-Nov-86
11-Jun-87
14-Jan-88
22-Nov-88
21-Nov-89
31-Aug-90
11-Feb-91
27-Nov-91
04-Jun-92
02-Dec-92
09-Aug-93
21-Apr-94
05-Dec-94
28-Aug-95
30-May-96
12-Feb-97
30-Jan-98
10-Nov-98
20-Aug-99
15-Nov-00
15-May-02
08-Oct-03

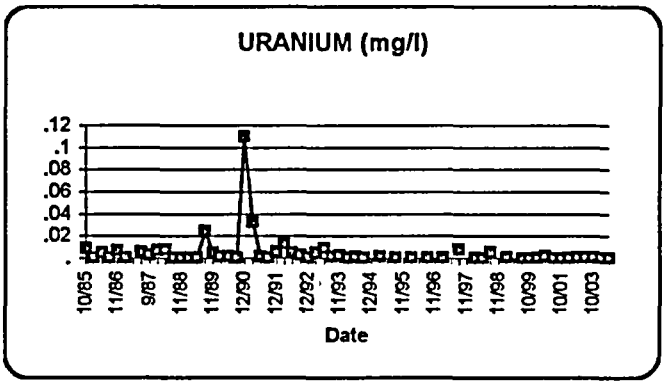
WELL 40SC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Oct-85	76.	361		.009
01-Mar-86	6.	39		.0005
01-May-86	58.	266	.02	.005
01-Sep-86	137.	867		.0005
01-Nov-86	124.	573		.007
01-Mar-87	88.	284		.0005
01-May-87		600		
01-Jun-87	106.	750		.006
01-Sep-87	126.	833	1.02	0.003
01-Jan-88	69.7	650		0.007
01-Jun-88	93.	520		.008
01-Sep-88	124.	893	1.	.0005
01-Nov-88	119.	853		.0005
01-Mar-89	107.	787	.96	.0005
01-May-89	127.	75	2.8	.0005
01-Sep-89	142.	1120	1.43	.025
01-Nov-89	123.	1110	7.7	.005
01-Mar-90	137.	1050	1.02	.002
01-Jun-90	134.	1080	1.4	.002
01-Aug-90	156.	1300	1.3	.0005
01-Dec-90	150.	1360	1.74	.11
01-Feb-91	140.	1200	1.34	.033
01-Jun-91	164.	1120	1.4	.002
01-Sep-91	168.	1380	1.36	.0005
01-Dec-91	164.	1360	1.	.006
01-Feb-92	166.	1240	1.36	.013
01-Jul-92	169.	1290	1.13	.005
01-Aug-92	171.	1470	1.24	.003
01-Dec-92	179.	1280	1.17	.0005
01-Mar-93	155.	1330	1.07	.005
01-May-93	98.3	760	1.17	.009
01-Aug-93	144.	1020	1.4	.002
01-Nov-93	115.	1000	1.1	.003
01-Mar-94	113.	1150	.8	.0005
06-Jun-94	107.	1060	.96	.002
16-Sep-94	120.	1080	.88	.0005
09-Dec-94	104.	1170	1.	
28-Feb-95	93.	920	1.37	.002
17-May-95	119.	1160	1.19	
29-Aug-95	68.	1350	2.29	.0005
29-Nov-95	130.	1330	1.28	
28-Feb-96	109.	1360	1.29	.0005
05-Jun-96	160.	1430	1.32	
06-Aug-96	135.	1560	1.25	.0005
25-Nov-96	124.	1520	1.34	
19-Feb-97	121.	1300	2.1	.0005
22-May-97	55.2	650	.17	
20-Aug-97	88.	893	.37	.008
11-Nov-97	113.	1040	1.22	
04-Feb-98	138	1350	1.280	0.0007
20-May-98	122	1230	1.090	
26-Aug-98	113	1260	0.740	0.0060
11-Nov-98				
16-Feb-99	95.9	890	0.420	0.0013
19-May-99	302	1390	0.480	
24-Aug-99	145	1320	0.300	0.0002
27-Oct-99	125	1220	0.360	0.0000
16-May-00	187	1050	0.640	0.0005
21-Oct-00	136	833	0.920	0.0022
23-May-01	146	1210	1.380	0.0002
01-Oct-01	160	1300	1.300	0.0002
15-May-02	161	1600	1.150	0.0004
16-Oct-02	171	1500	1.000	0.0010
28-May-03	176	1860	0.800	0.0010
08-Oct-03	195	2100	0.600	0.0010
05-May-04	160	1860	0.73	0.0005
14-Oct-04	160	2000	0.54	0.0006

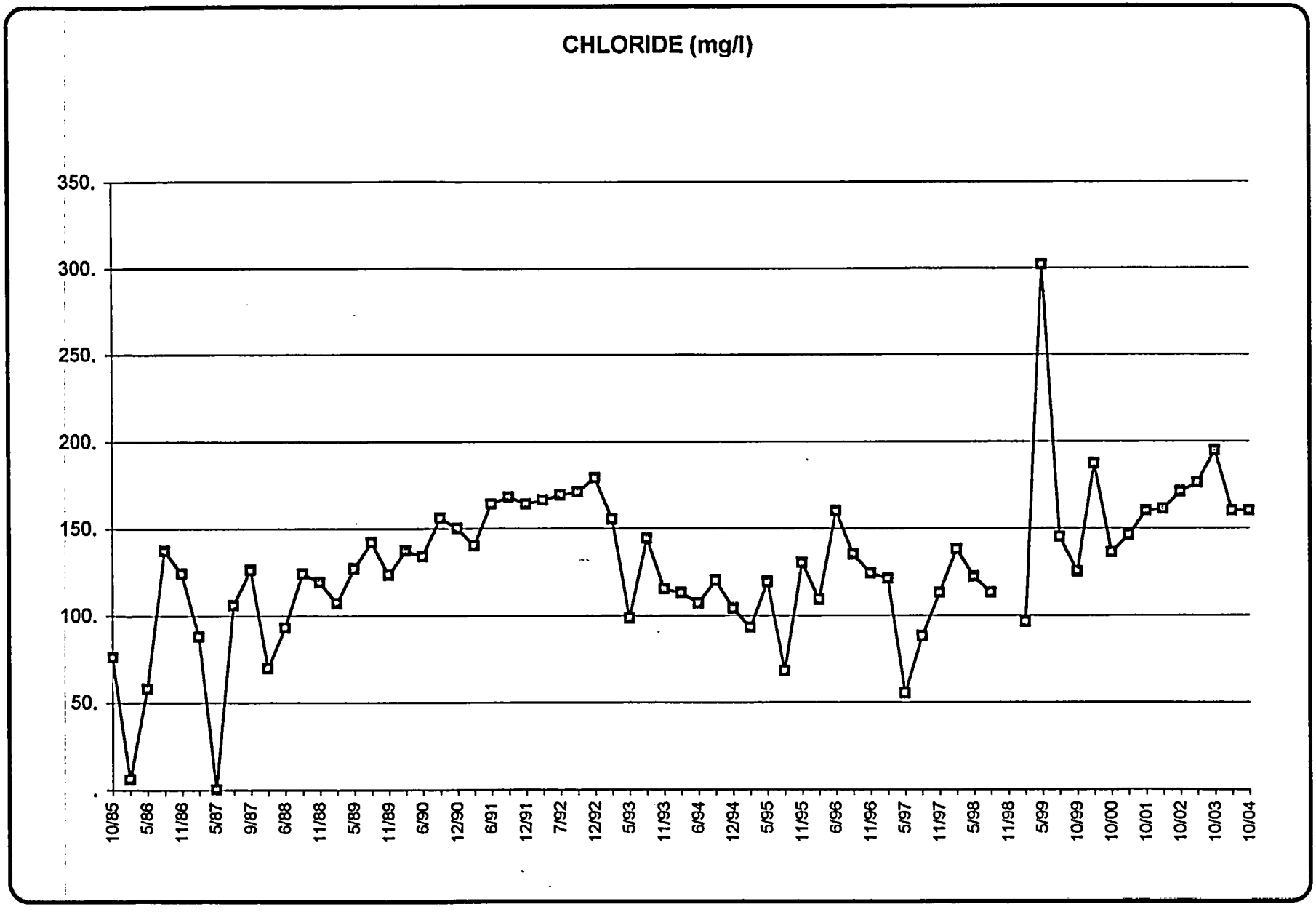




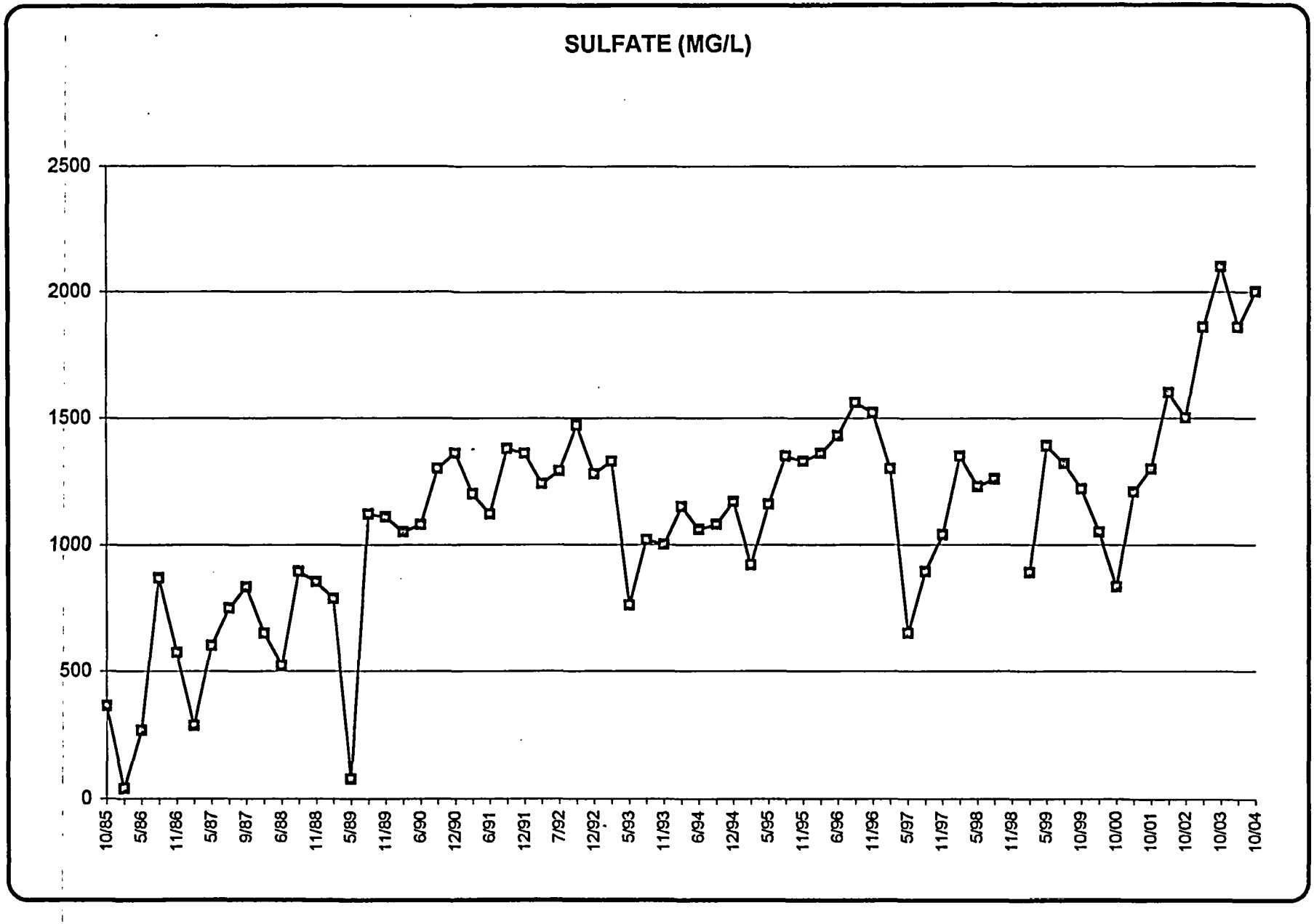




40-SC


CHLORIDE (mg/l)
350.
300.
250.
200.
150.
100.
50.
.
10/85
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
12/92
5/93
11/93
6/94
12/94
5/95
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04

40-SC


SULFATE (MG/L)
2500
2000
1500
1000
500
0
10/85
5/86
11/86
5/87
9/87
6/88
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5/89
11/89
6/90
12/90
6/91
12/91
7/92
12/92
5/93
11/93
6/94
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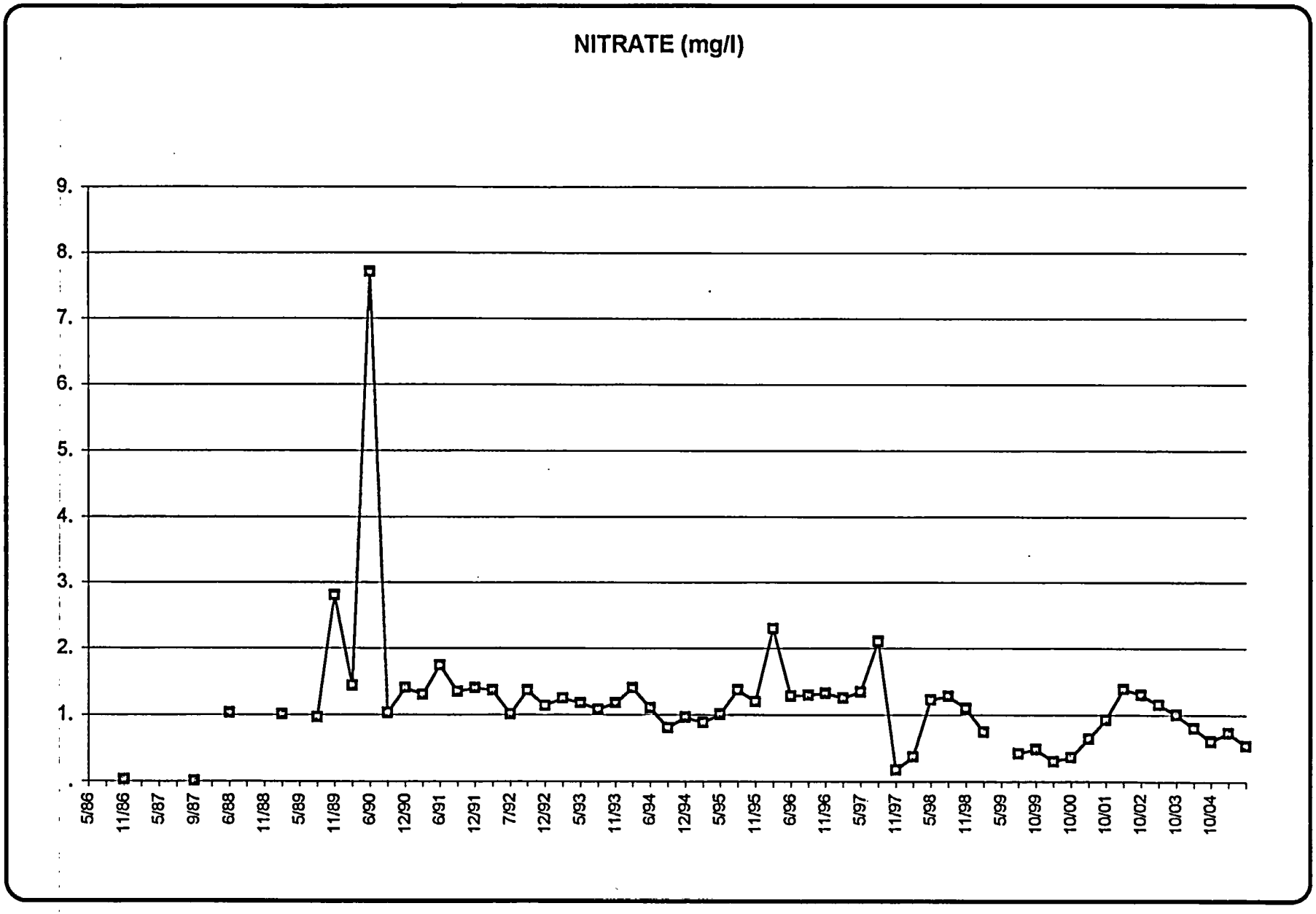
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04

40-SC


NITRATE (mg/l)
9.
8.
7.
6.
5.
4.
3.
2.
1.
.
5/86
11/86
5/87
9/87
6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
12/92
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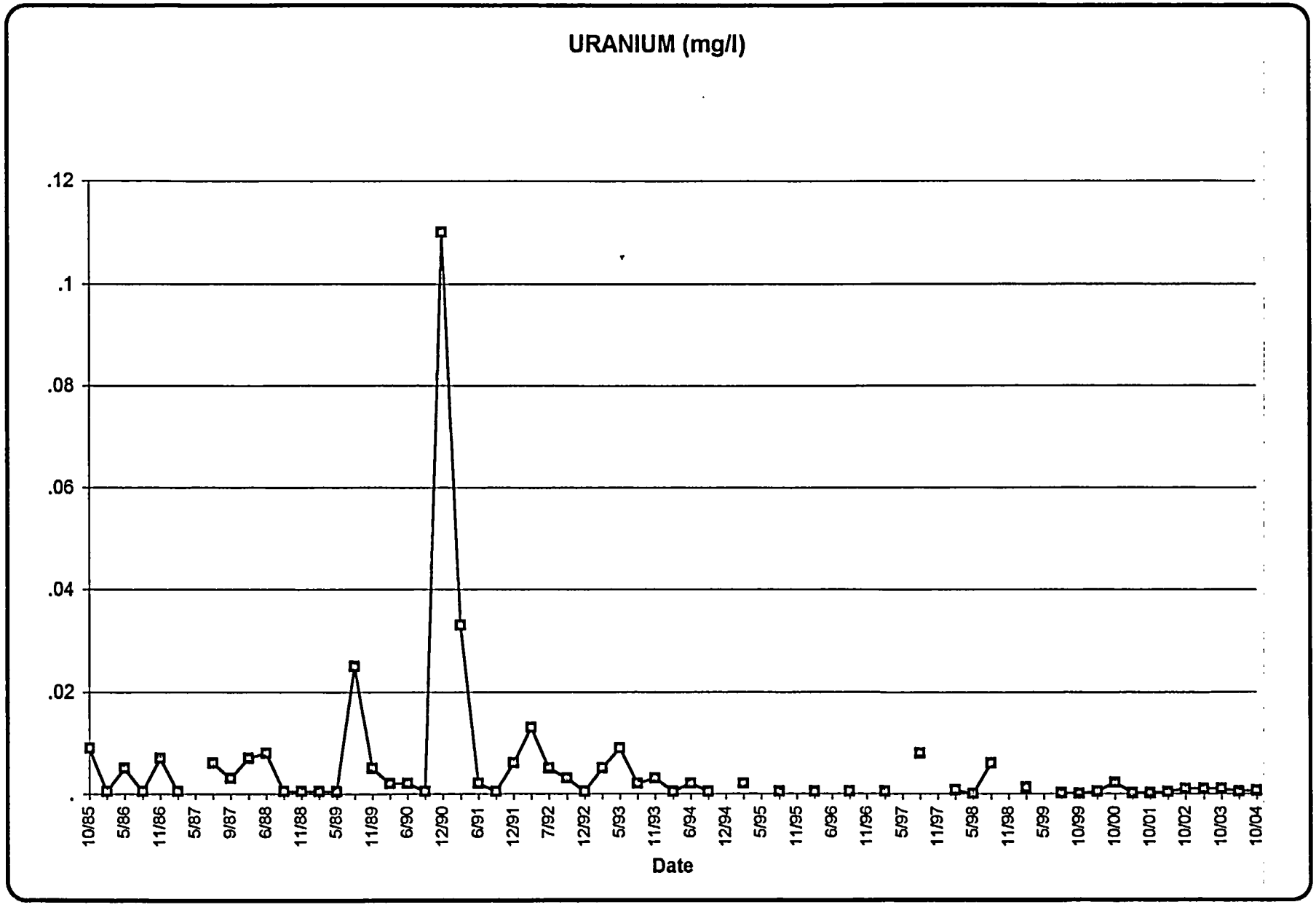
5/95
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04

40-SC


URANIUM (mg/l)
.12
.1
.08
.06
.04
.02
.
10/85
5/86
11/86
5/87
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6/88
11/88
5/89
11/89
6/90
12/90
6/91
12/91
7/92
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5/93
11/93
6/94
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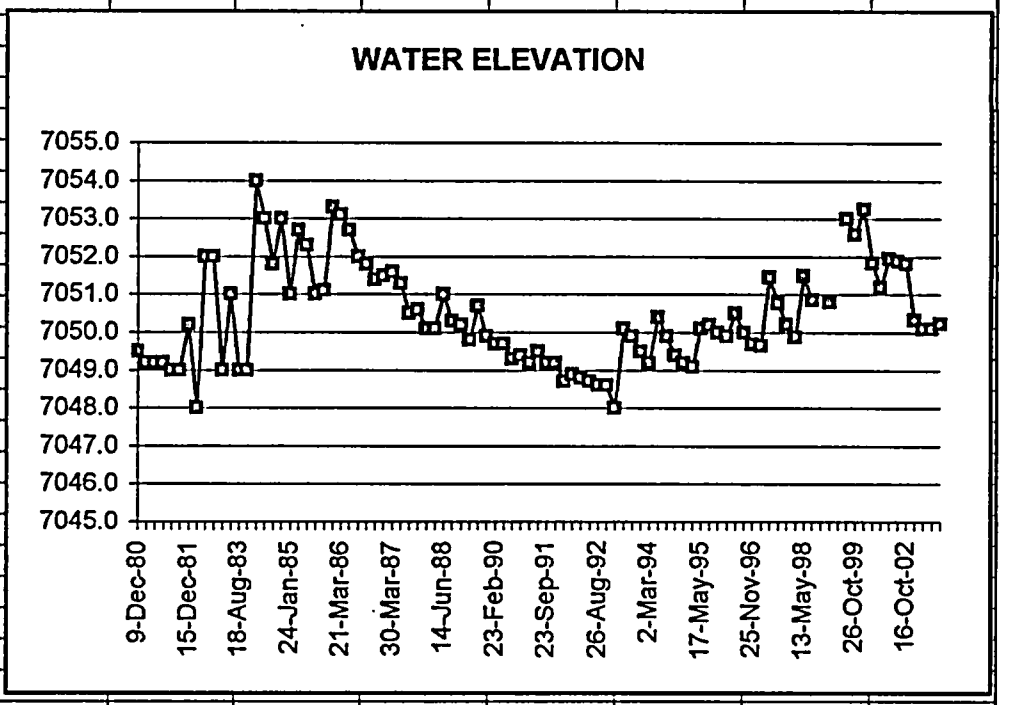
5/95
11/95
6/96
11/96
5/97
11/97
5/98
11/98
5/99
10/99
10/00
10/01
10/02
10/03
10/04
Date

WATER LEVEL ELEVATIONS WELL 40SC

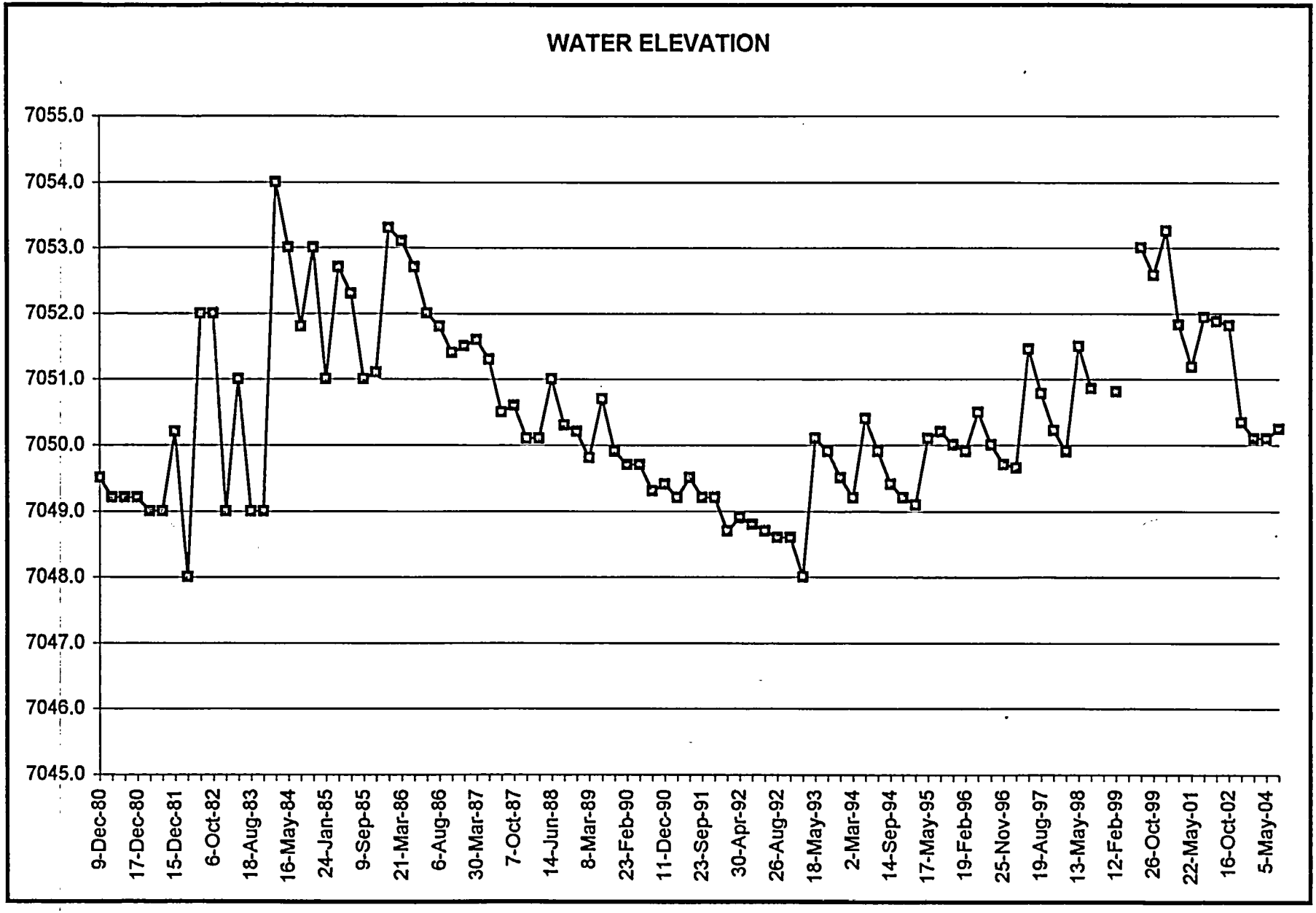
WELL 40SC		
DATE	W.L. ELEV	
9-Dec-80	7049.5	MP=7057.0
15-Dec-80	7049.2	
16-Dec-80	7049.2	
17-Dec-80	7049.2	
3-Feb-81	7049.0	
25-Mar-81	7049.0	
15-Dec-81	7050.2	
3-Jun-82	7048.0	
10-Aug-82	7052.0	
6-Oct-82	7052.0	
23-Feb-83	7049.0	
10-May-83	7051.0	
18-Aug-83	7049.0	
20-Oct-83	7049.0	
9-May-84	7054.0	
16-May-84	7053.0	
14-Aug-84	7051.8	
17-Oct-84	7053.0	
24-Jan-85	7051.0	
15-Apr-85	7052.7	
1-Jul-85	7052.3	
9-Sep-85	7051.0	
1-Oct-85	7051.1	
1-Dec-85	7053.3	
21-Mar-86	7053.1	
22-May-86	7052.7	
8-Jul-86	7052.0	
6-Aug-86	7051.8	
30-Sep-86	7051.4	
24-Nov-86	7051.5	
30-Mar-87	7051.6	
11-Jun-87	7051.3	
10-Sep-87	7050.5	
7-Oct-87	7050.6	
12-Jan-88	7050.1	
13-Jan-88	7050.1	
14-Jun-88	7051.0	
27-Sep-88	7050.3	
22-Nov-88	7050.2	
8-Mar-89	7049.8	
11-May-89	7050.7	
21-Nov-89	7049.9	
23-Feb-90	7049.7	
13-Jun-90	7049.7	
10-Sep-90	7049.3	
11-Dec-90	7049.4	
11-Feb-91	7049.2	
12-Jun-91	7049.5	
23-Sep-91	7049.2	
27-Nov-91	7049.2	
20-Feb-92	7048.7	MP=7056.8
30-Apr-92	7048.9	



WATER LEVEL ELEVATIONS WELL 40SC

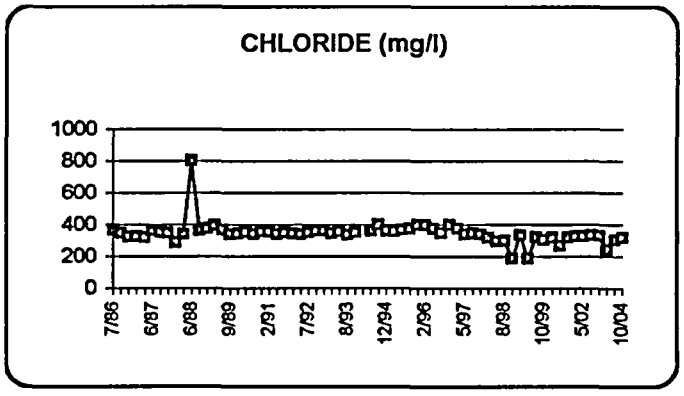
4-Jun-92	7048.8								
9-Jul-92	7048.7								
26-Aug-92	7048.6								
2-Dec-92	7048.6								
1-Mar-93	7048.0								
18-May-93	7050.1								
9-Aug-93	7049.9								
22-Nov-93	7049.5								
2-Mar-94	7049.2								
21-Apr-94	7050.4								
6-Jun-94	7049.9								
14-Sep-94	7049.4								
5-Dec-94	7049.2								
13-Feb-95	7049.1								
17-May-95	7050.1								
28-Aug-95	7050.2								
27-Nov-95	7050.0								
19-Feb-96	7049.9								
30-May-96	7050.5								
1-Aug-96	7050.0								
25-Nov-96	7049.7								
12-Feb-97	7049.7								
19-May-97	7051.5								
19-Aug-97	7050.8								
7-Nov-97	7050.2								
30-Jan-98	7049.9								
13-May-98	7051.5								
14-Aug-98	7050.9								
10-Nov-98									
12-Feb-99	7050.8								
18-May-99									
20-Aug-99	7053.0								
26-Oct-99	7052.6								
16-May-00	7053.3								
15-Nov-00	7051.8	MP=7058.9							
22-May-01	7051.2								
1-Oct-01	7051.9								
15-May-02	7051.9								
16-Oct-02	7051.8								
28-May-03	7050.3								
8-Oct-03	7050.1								
5-May-04	7050.1								
14-Oct-04	7050.2								

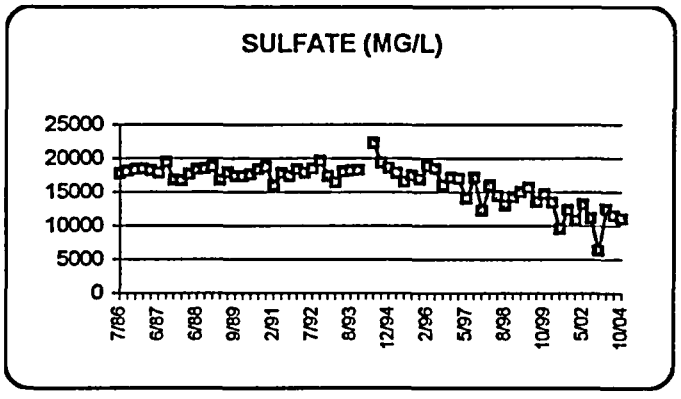
40-SC

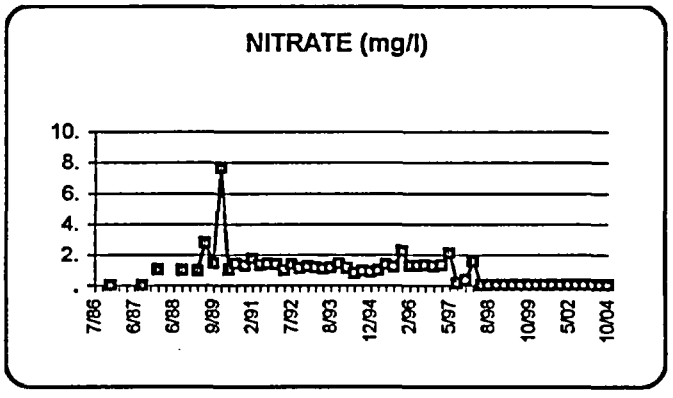

WATER ELEVATION
7055.0
7054.0
7053.0
7052.0
7051.0
7050.0
7049.0
7048.0
7047.0
7046.0
7045.0
9-Dec-80
17-Dec-80
15-Dec-81
6-Oct-82
18-Aug-83
16-May-84
24-Jan-85
9-Sep-85
21-Mar-86
6-Aug-86
30-Mar-87
7-Oct-87
14-Jun-88
8-Mar-89
23-Feb-90
11-Dec-90
23-Sep-91
30-Apr-92
26-Aug-92
18-May-93
2-Mar-94
14-Sep-94
17-May-95
19-Feb-96
25-Nov-96
19-Aug-97
13-May-98
12-Feb-99
26-Oct-99
22-May-01
16-Oct-02
5-May-04

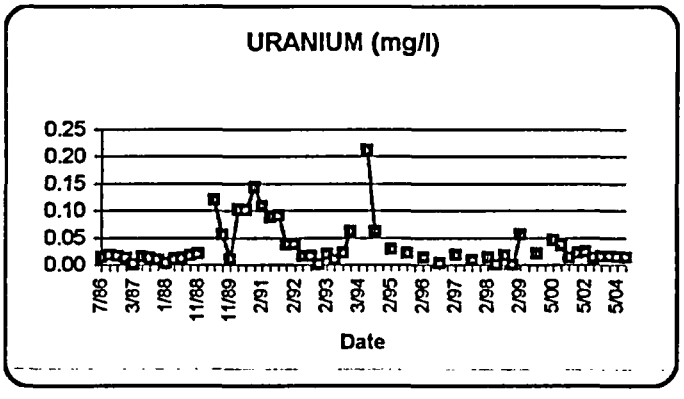
WELL 51SC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Jul-86	368	17700		0.01
01-Aug-86	348	18100		0.02
01-Oct-86	324	18430	.02	0.02
01-Dec-86	330	18529		0.01
01-Mar-87	320	18200		0.00
01-Jun-87	363	17800		0.02
01-Aug-87	353	19400		0.01
01-Oct-87	349	16800		0.01
01-Jan-88	289	16660	1.02	0.00
01-May-88	339	17600		0.01
01-Jun-88	806	18400		0.01
01-Sep-88	363	18500	1.	0.02
01-Nov-88	375	18800		0.02
01-Mar-89	396	16800	.96	
01-May-89	368	17900	2.8	0.12
01-Sep-89	339	17400	1.43	0.06
01-Nov-89	343	17400	7.7	0.01
01-Mar-90	358	17600	1.02	0.10
01-Jun-90	339	18400	1.4	0.10
01-Aug-90	359	18800	1.3	0.14
01-Feb-91	355	16000	1.74	0.11
01-Jun-91	342	17800	1.34	0.09
01-Sep-91	354	17400	1.4	0.09
01-Dec-91	345	18400	1.36	0.04
01-Feb-92	342	17800	1.	0.04
01-Jul-92	354	18500	1.36	0.02
01-Aug-92	364	19600	1.13	0.02
01-Dec-92	363	17400	1.24	0.00
01-Feb-93	345	16400	1.17	0.02
01-May-93	359	18000	1.07	0.01
01-Aug-93	338	18200	1.17	0.02
01-Nov-93	352	18300	1.4	0.06
01-Mar-94			1.1	
07-Jun-94	360	22300	.8	0.21
15-Sep-94	400	19300	.96	0.06
06-Dec-94	360	18600	.88	
14-Feb-95	355	17800	1.	0.03
18-May-95	370.	16500	1.37	
28-Aug-95	375.	17500	1.19	.022
28-Nov-95	400.	16900	2.29	
28-Feb-96	400.	18900	1.28	.014
05-Jun-96	375	18500	1.29	
06-Aug-96	350	16000	1.32	0.004
26-Nov-96	400	17200	1.25	
18-Feb-97	375	17000	1.34	0.019
22-May-97	341	14100	2.1	
21-Aug-97	347	17200	.17	0.01
12-Nov-97	342	12300	.37	
05-Feb-98	319	16000	1.580	0.0137
20-May-98	297	14400	0.050	
20-Aug-98	299	13000	0.050	0.0180
11-Nov-98	188	14200	0.050	
17-Feb-99	337	15000	0.050	0.0564
20-May-99	190	15700	0.050	
25-Aug-99	325	13600	0.050	0.0207
28-Oct-99	306	14700	0.050	
16-May-00	320	13500	0.050	0.0458
21-Oct-00	270	9490	0.050	0.0370
22-May-01	322	12400	0.050	0.0140
01-Oct-01	330	10800	0.050	0.0219
15-May-02	327	13200	0.050	0.0242
16-Oct-02	335	11100	0.050	0.0130
28-May-03	332	6280	0.050	0.0160
08-Oct-03	243	12500	0.050	0.0160
05-May-04	304	11500	0.05	0.015
12-Oct-04	320	11000	0.05	0.0145

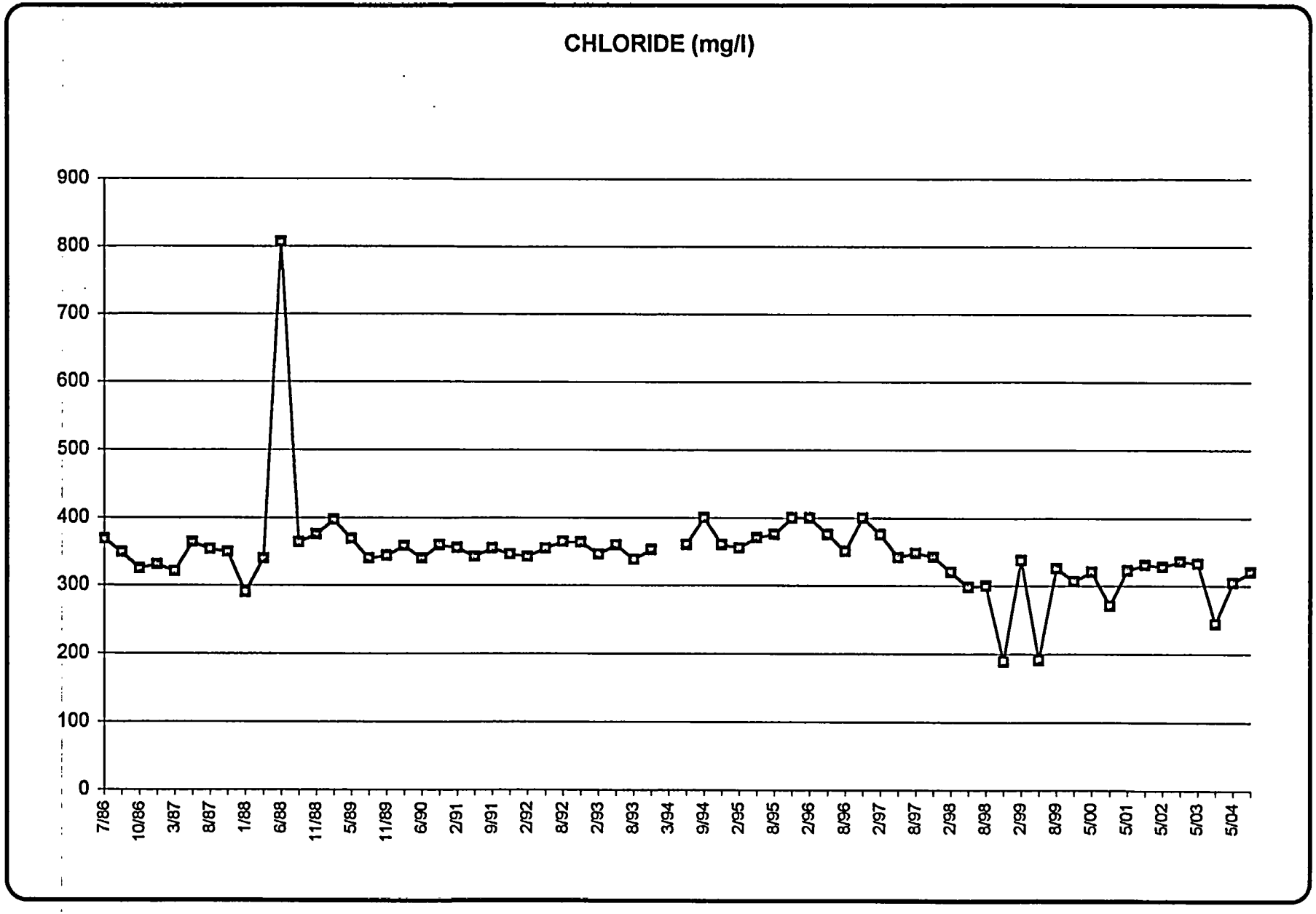








51-SC


CHLORIDE (mg/l)
900
800
700
600
500
400
300
200
100
0
7/86
10/86
3/87
8/87
1/88
6/88
11/88
5/89
11/89
6/90
2/91
9/91
2/92
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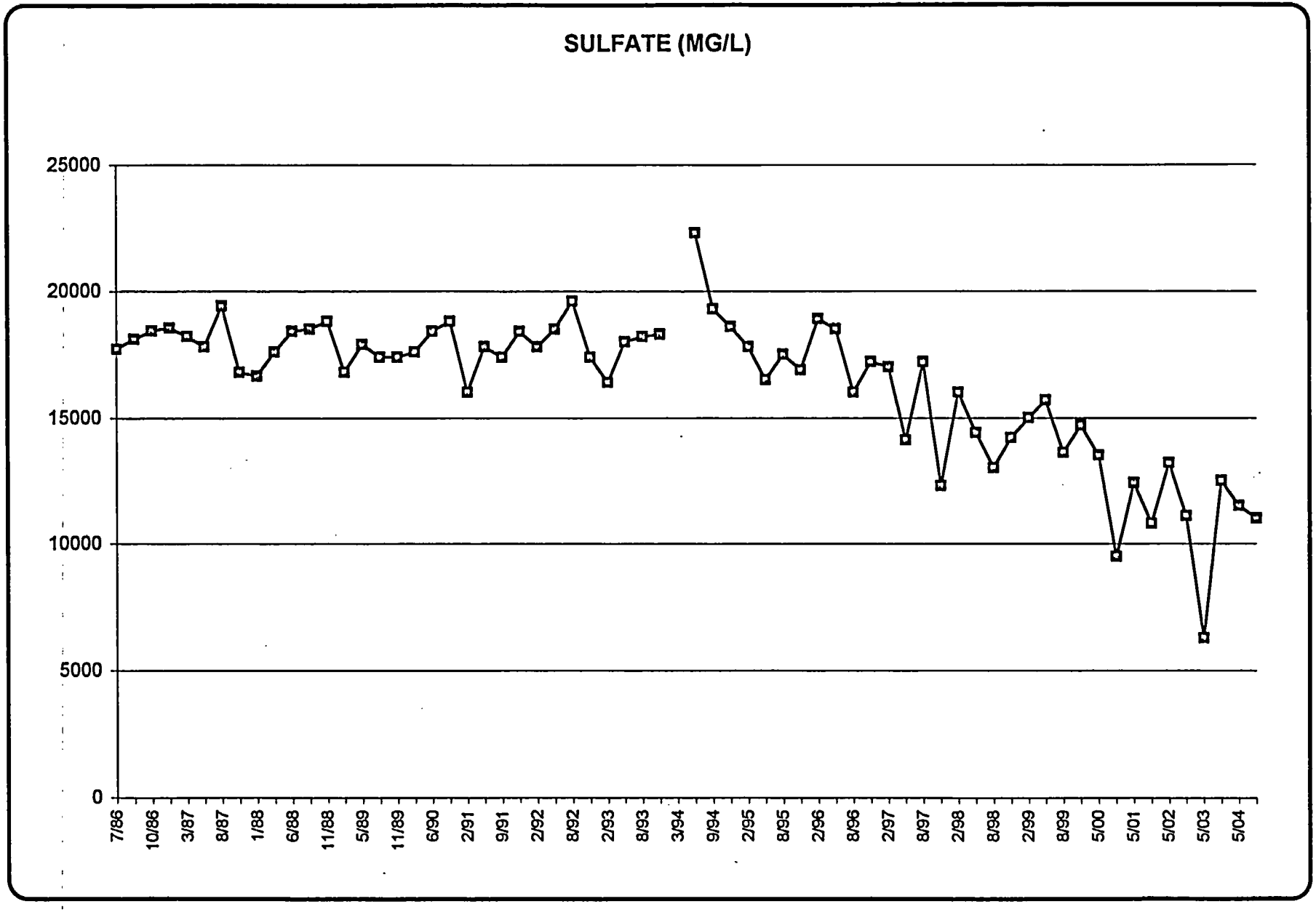
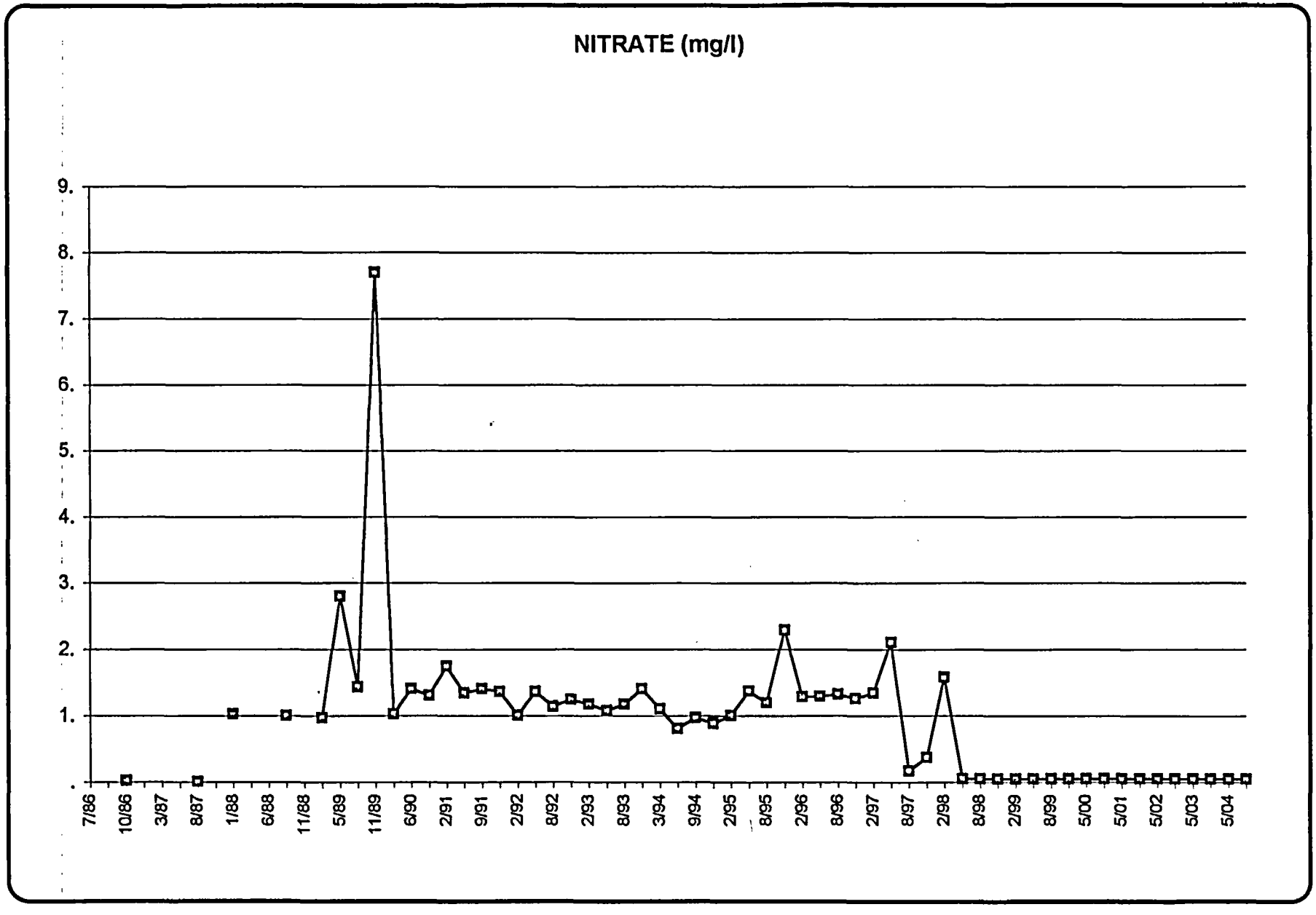
8/99
5/00
5/01
5/02
5/03
5/04

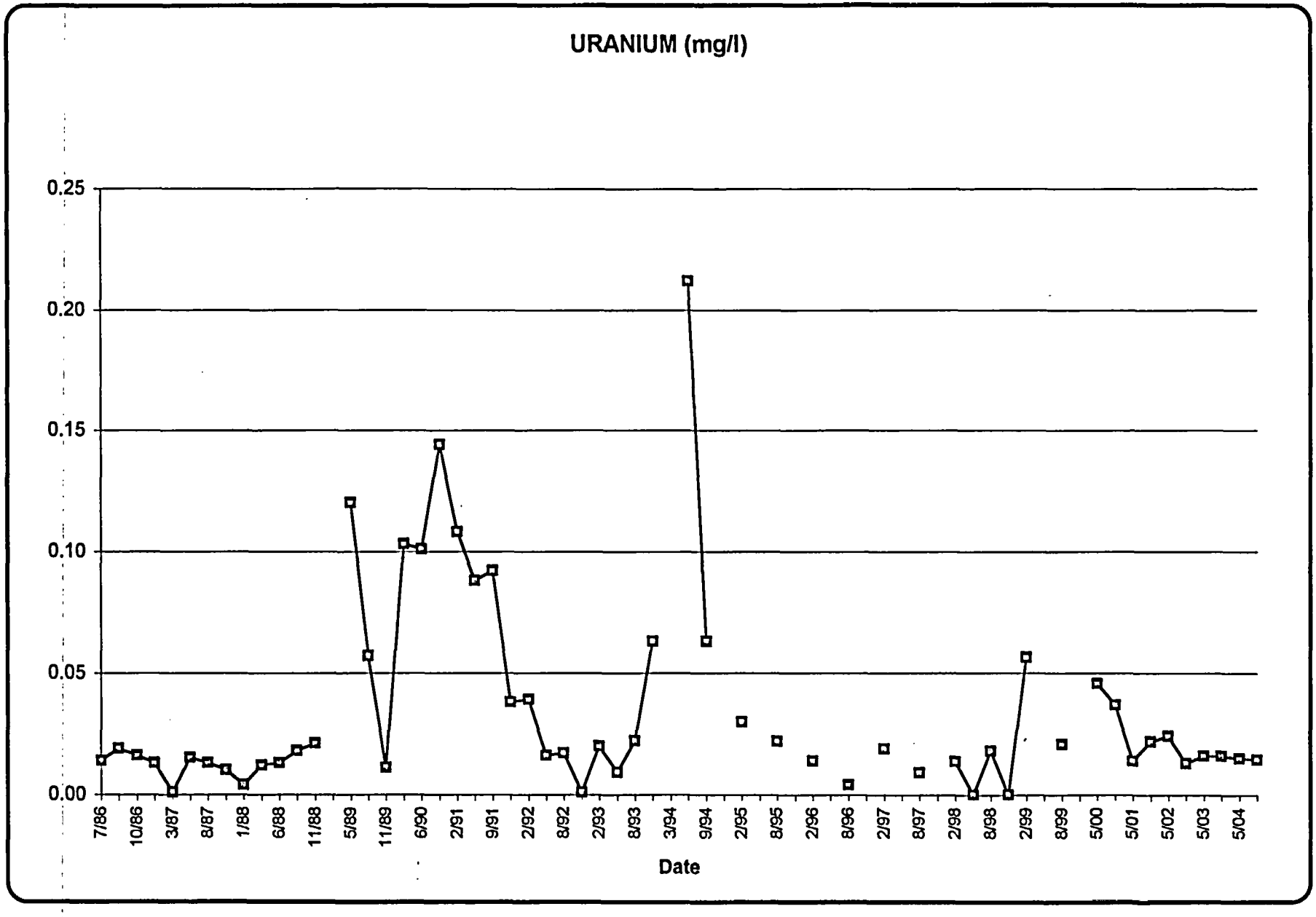
51-SC


SULFATE (MG/L)
25000
20000
15000
10000
5000
0
7/86
10/86
3/87
8/87
1/88
6/88
11/88
5/89
11/89
6/90
2/91
9/91
2/92
8/92
2/93
8/93
3/94
9/94
2/95
8/95
2/96
8/96
2/97
8/97
2/98
8/98
2/99
8/99
5/00
5/01
5/02
5/03
5/04

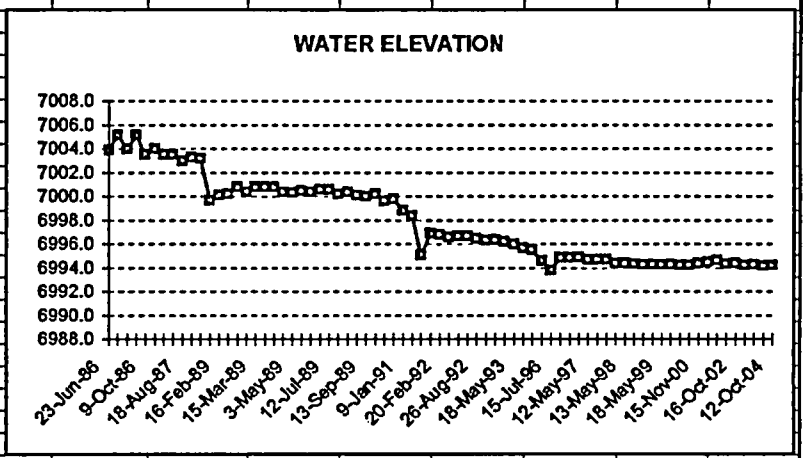
51-SC


NITRATE (mg/l)
9.
8.
7.
6.
5.
4.
3.
2.
1.
.
7/86
10/86
3/87
8/87
1/88
6/88
11/88
5/89
11/89
6/90
2/91
9/91
2/92
8/92
2/93
8/93
3/94
9/94
2/95
8/95
2/96
8/96
2/97
8/97
2/98
8/98
2/99
8/99
5/00
5/01
5/02
5/03
5/04

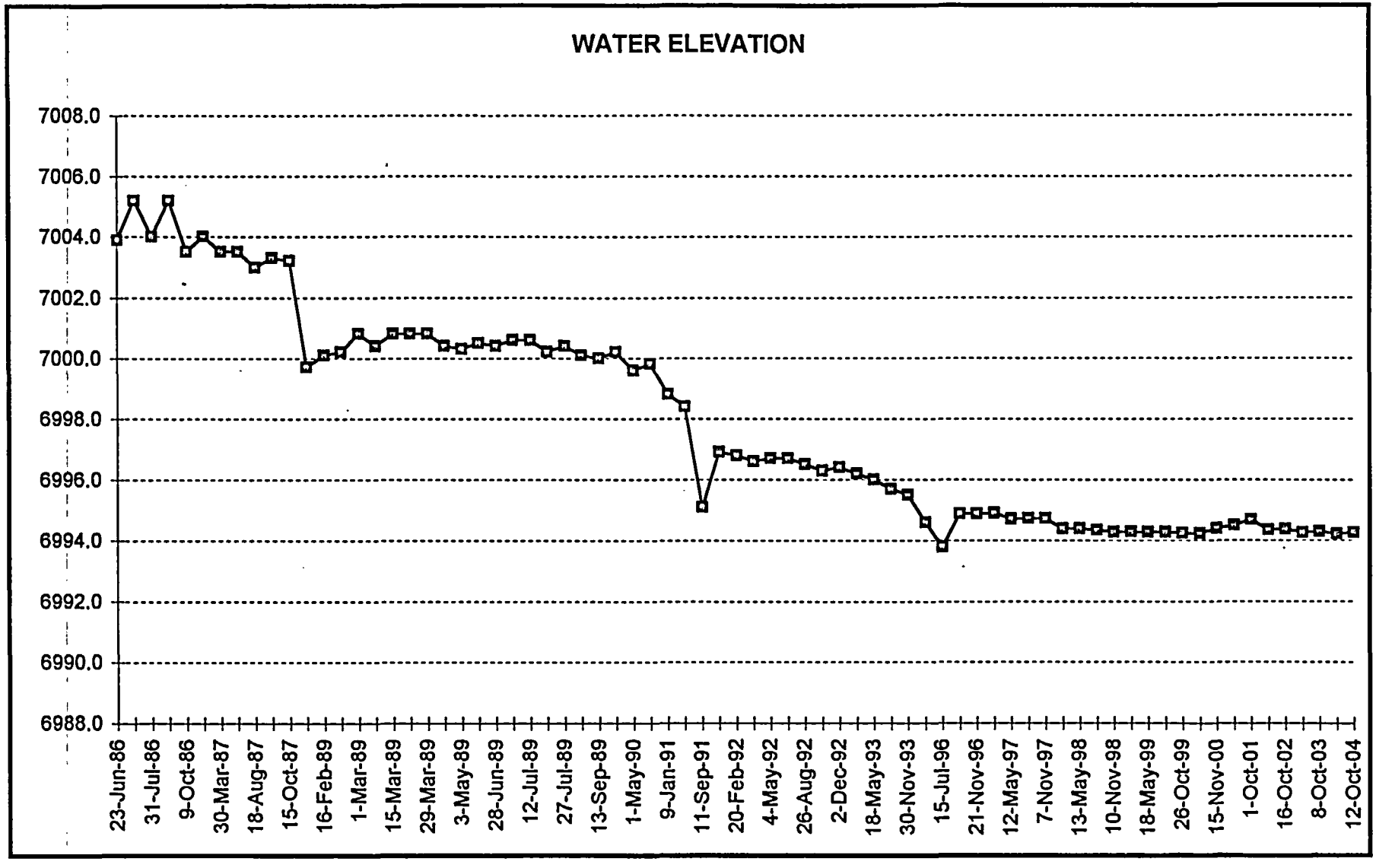
51-SC


URANIUM (mg/l)
0.25
0.20
0.15
0.10
0.05
0.00
7/86
10/86
3/87
8/87
1/88
6/88
11/88
5/89
11/89
6/90
2/91
9/91
2/92
8/92
2/93
8/93
3/94
9/94
2/95
8/95
2/96
8/96
2/97
8/97
2/98
8/98
2/99
8/99
5/00
5/01
5/02
5/03
5/04
Date

WELL 51SC		
DATE	W.L. ELEV	
23-Jun-86	7003.9	MP=7100.8
7-Jul-86	7005.2	
31-Jul-86	7004.0	
30-Sep-86	7005.2	
9-Oct-86	7003.5	
8-Dec-86	7004.0	
30-Mar-87	7003.5	
29-Apr-87	7003.5	
18-Aug-87	7003.0	
7-Oct-87	7003.3	
15-Oct-87	7003.2	
8-Feb-89	6999.7	
16-Feb-89	7000.1	
22-Feb-89	7000.2	
1-Mar-89	7000.8	
8-Mar-89	7000.4	
15-Mar-89	7000.8	
22-Mar-89	7000.8	
29-Mar-89	7000.8	
26-Apr-89	7000.4	
3-May-89	7000.3	
10-May-89	7000.5	
28-Jun-89	7000.4	
5-Jul-89	7000.6	
12-Jul-89	7000.6	
19-Jul-89	7000.2	
27-Jul-89	7000.4	
6-Sep-89	7000.1	
13-Sep-89	7000.0	
1-Nov-89	7000.2	
1-May-90	6999.6	
14-May-90	6999.8	MP=7100.3
9-Jan-91	6998.8	
18-Apr-91	6998.4	
11-Sep-91	6995.1	
9-Dec-91	6996.9	
20-Feb-92	6996.8	
31-Mar-92	6996.6	
4-May-92	6996.7	MP=7100.6
8-Jul-92	6996.7	
26-Aug-92	6996.5	
1-Dec-92	6996.3	
2-Dec-92	6996.4	
2-Mar-93	6996.2	
18-May-93	6996.0	
9-Aug-93	6995.7	
30-Nov-93	6995.5	
7-Jun-94	6994.6	
15-Jul-96	6993.8	
1-Aug-96	6994.9	
21-Nov-96	6994.9	
12-Feb-97	6994.9	
12-May-97	6994.7	
19-Aug-97	6994.7	
7-Nov-97	6994.7	
30-Jan-98	6994.4	
13-May-98	6994.4	
14-Aug-98	6994.4	
10-Nov-98	6994.3	
12-Feb-99	6994.3	
18-May-99	6994.3	
20-Aug-99	6994.3	
26-Oct-99	6994.3	
16-May-00	6994.2	
15-Nov-00	6994.4	MP=7092.1
22-May-01	6994.5	
1-Oct-01	6994.7	
15-May-02	6994.3	
16-Oct-02	6994.4	
28-May-03	6994.3	
8-Oct-03	6994.3	
5-May-04	6994.2	
12-Oct-04	6994.3	

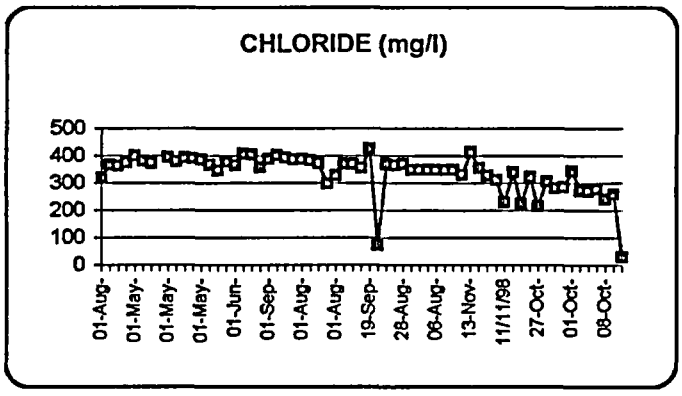


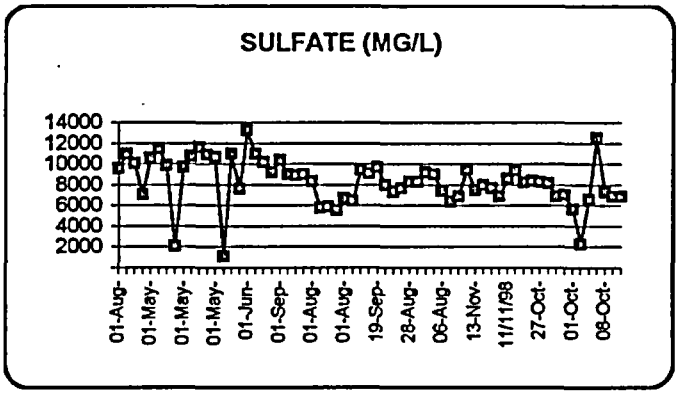
51-SC

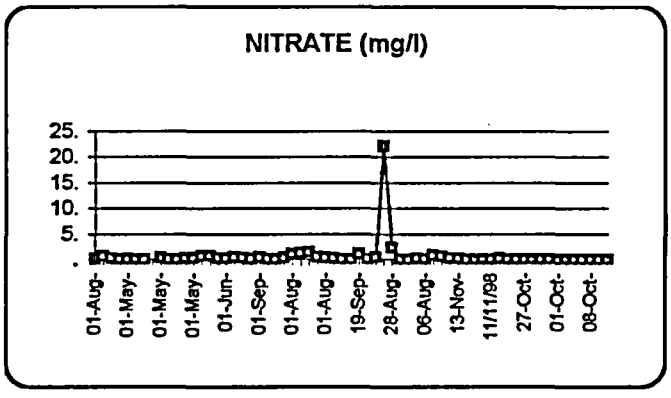

WATER ELEVATION
7008.0
7006.0
7004.0
7002.0
7000.0
6998.0
6996.0
6994.0
6992.0
6990.0
6988.0
23-Jun-86
31-Jul-86
9-Oct-86
30-Mar-87
18-Aug-87
15-Oct-87
16-Feb-89
1-Mar-89
15-Mar-89
29-Mar-89
3-May-89
28-Jun-89
12-Jul-89
27-Jul-89
13-Sep-89
1-May-90
9-Jan-91
11-Sep-91
20-Feb-92
4-May-92
26-Aug-92
2-Dec-92
18-May-93
30-Nov-93
15-Jul-96
21-Nov-96
12-May-97
7-Nov-97
13-May-98
10-Nov-98
18-May-99
26-Oct-99
15-Nov-00
1-Oct-01
16-Oct-02
8-Oct-03
12-Oct-04

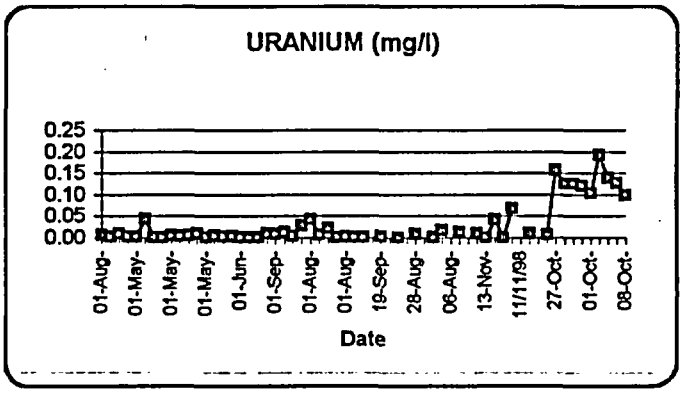
WELL 54SC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Aug-86	319	9550	.13	0.03
01-Oct-86	367	10980	.7	0.02
01-Dec-86	363	10068	.25	0.01
01-Mar-87	375	7040		0.00
01-May-87	400	10560	.18	0.01
01-Aug-87	382	11480	.05	0.00
01-Oct-87	371	9900		0.00
01-Jan-88		2080		0.05
01-May-88	396	9700	.42	0.00
01-Sep-88	379	10722		0.00
01-Nov-88	392	11600		0.01
01-Mar-89	391	10933	.28	0.01
01-May-89	386	10700	.41	0.01
01-Sep-89	368	1110	.74	0.01
01-Nov-89	347	11000	.77	0.00
01-Mar-90	378	7600	.29	0.01
01-Jun-90	365	13280	.22	0.00
01-Aug-90	407	11000	.54	0.01
01-Feb-91	404	10200	.31	0.00
01-Jun-91	358	9200	.17	0.00
01-Sep-91	389	10400	.46	0.00
01-Dec-91	402	9000	.14	0.01
01-Feb-92	392	8900	.005	0.01
01-Jul-92	387	9000	.36	0.01
01-Aug-92	388	8330	1.08	0.00
01-Dec-92	384	5760	1.37	0.03
01-Feb-93	373	5920	1.51	0.04
01-May-93	298	5520	.55	0.01
01-Aug-93	329	6720	.36	0.02
01-Nov-93	369	6440	.3	0.00
01-Mar-94	370	9440	0.025	0.00
06-Jun-94	356	9100	0.025	0.00
19-Sep-94	425	9680	1.090	0.00
06-Dec-94	72	7960	0.060	
23-Feb-95	370	7300	0.470	0.00
18-May-95	365.	7680	22.160	
28-Aug-95	370.	8280	2.400	0.00
27-Nov-95	350.	8320	0.025	
22-Feb-96	350.	9200	0.005	0.01
03-Jun-96	350	9000	0.250	
06-Aug-96	350	7450	0.025	0.00
17-Feb-97	350	6360	0.900	0.02
20-May-97	350	6880	0.670	
20-Aug-97	330	9500	0.200	0.01
13-Nov-97	414	7500	0.210	
03-Feb-98	355	7980	0.050	0.01
19-May-98	328	7660	0.050	
08/18/98	312	6900	0.050	0.0427
11/11/98	231	8610	0.050	
02/16/99	339	9400	0.290	0.0680
18-May-99	225	8250	0.050	
24-Aug-99	323	8400	0.050	0.0101
27-Oct-99	216	8300	0.050	
16-May-00	308	8160	0.050	0.0074
25-Oct-00	281	6870	0.050	0.1570
23-May-01	285	7050	0.050	0.1270
01-Oct-01	345	5640	0.050	0.1260
15-May-02	273	2290	0.050	0.1200
16-Oct-02	270	6590	0.050	0.1040
28-May-03	279	12500	0.050	0.1930
08-Oct-03	243	7330	0.050	0.1400
06-May-04	261	6880	0.05	0.1280
12-Oct-04	30	6900	0.05	0.0995

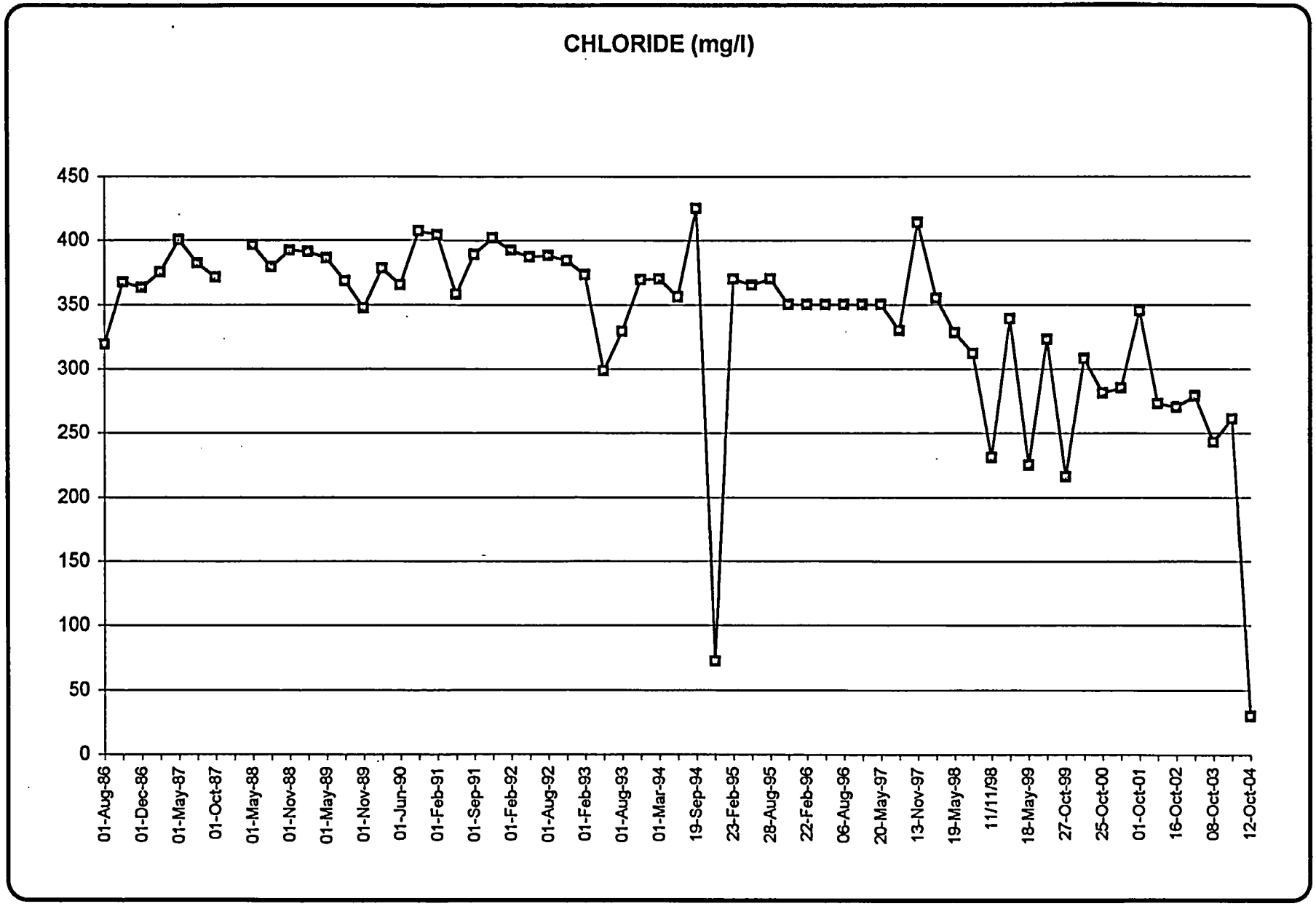




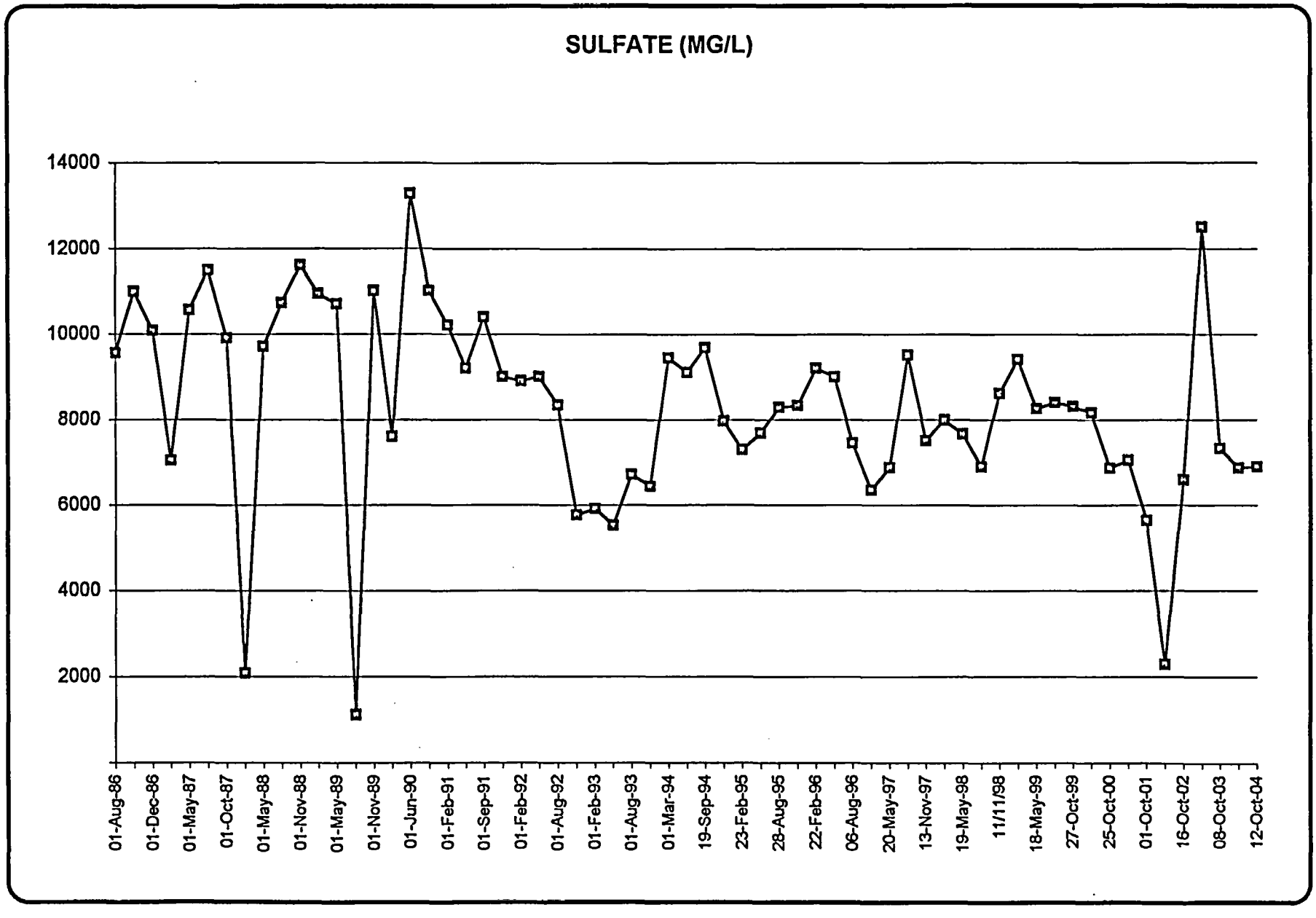




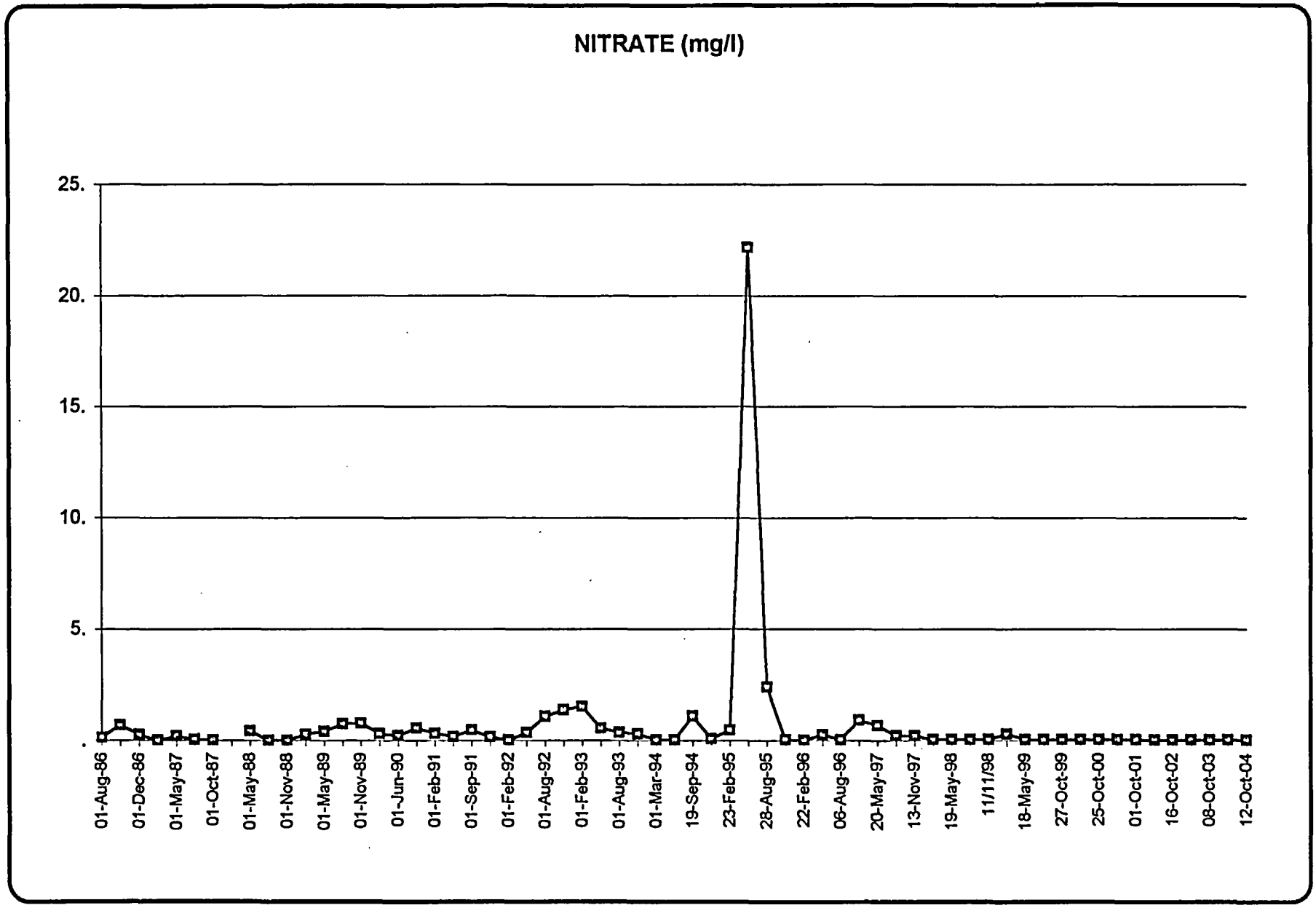
54-SC


CHLORIDE (mg/l)
450
400
350
300
250
200
150
100
50
0
01-Aug-86
01-Dec-86
01-May-87
01-Oct-87
01-May-88
01-Nov-88
01-May-89
01-Nov-89
01-Jun-90
01-Feb-91
01-Sep-91
01-Feb-92
01-Aug-92
01-Feb-93
01-Aug-93
01-Mar-94
19-Sep-94
23-Feb-95
28-Aug-95
22-Feb-96
06-Aug-96
20-May-97
13-Nov-97
19-May-98
11/11/98
18-May-99
27-Oct-99
25-Oct-00
01-Oct-01
16-Oct-02
08-Oct-03
12-Oct-04

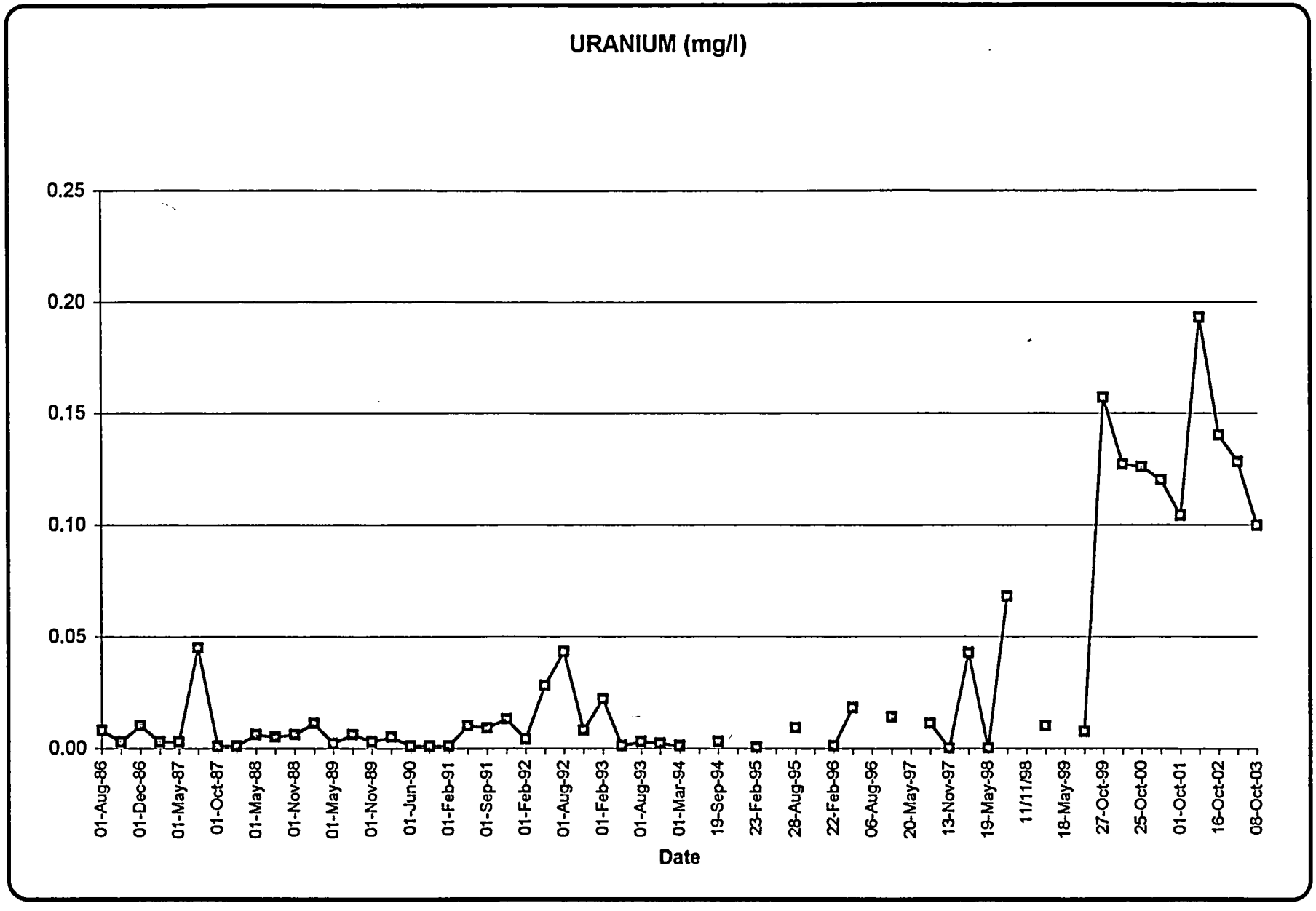
54-SC


SULFATE (MG/L)
14000
12000
10000
8000
6000
4000
2000
01-Aug-86
01-Dec-86
01-May-87
01-Oct-87
01-May-88
01-Nov-88
01-May-89
01-Nov-89
01-Jun-90
01-Feb-91
01-Sep-91
01-Feb-92
01-Aug-92
01-Feb-93
01-Aug-93
01-Mar-94
19-Sep-94
23-Feb-95
28-Aug-95
22-Feb-96
06-Aug-96
20-May-97
13-Nov-97
19-May-98
11/11/98
18-May-99
27-Oct-99
25-Oct-00
01-Oct-01
16-Oct-02
08-Oct-03
12-Oct-04

54-SC

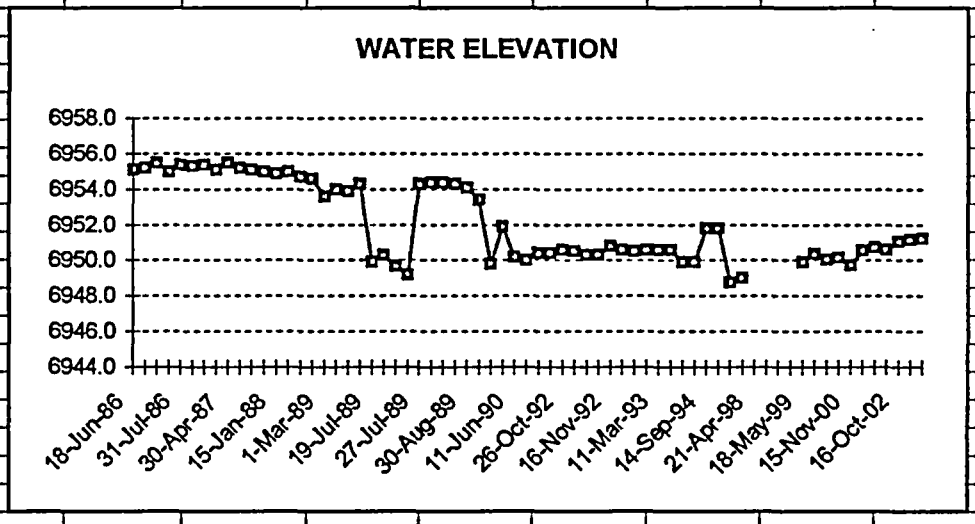

NITRATE (mg/l)
25.
20.
15.
10.
5.
.
01-Aug-86
01-Dec-86
01-May-87
01-Oct-87
01-May-88
01-Nov-88
01-May-89
01-Nov-89
01-Jun-90
01-Feb-91
01-Sep-91
01-Feb-92
01-Aug-92
01-Feb-93
01-Aug-93
01-Mar-94
19-Sep-94
23-Feb-95
28-Aug-95
22-Feb-96
06-Aug-96
20-May-97
13-Nov-97
19-May-98
11/11/98
18-May-99
27-Oct-99
25-Oct-00
01-Oct-01
16-Oct-02
08-Oct-03
12-Oct-04

54-SC


URANIUM (mg/l)
0.25
0.20
0.15
0.10
0.05
0.00
01-Aug-86
01-Dec-86
01-May-87
01-Oct-87
01-May-88
01-Nov-88
01-May-89
01-Nov-89
01-Jun-90
01-Feb-91
01-Sep-91
01-Feb-92
01-Aug-92
01-Feb-93
01-Aug-93
01-Mar-94
19-Sep-94
23-Feb-95
28-Aug-95
22-Feb-96
06-Aug-96
20-May-97
13-Nov-97
19-May-98
11/11/98
18-May-99
27-Oct-99
25-Oct-00
01-Oct-01
16-Oct-02
08-Oct-03
Date

WATER LEVEL ELEVATIONS WELL 54SC

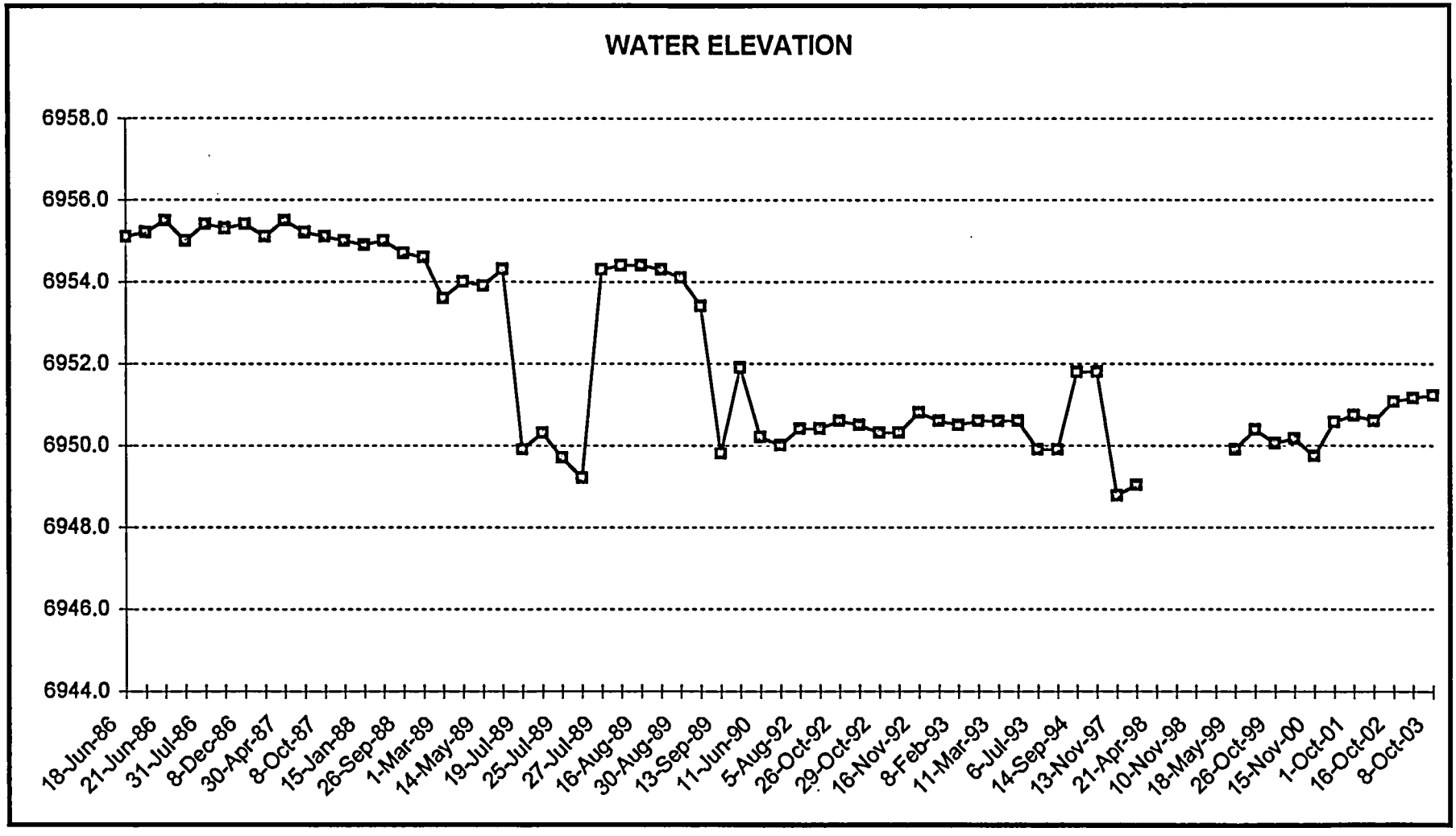
WELL 54SC		
DATE	W.L. ELEV	
18-Jun-86	6956.4	MP=7158.8
19-Jun-86	6955.6	
21-Jun-86	6955.1	
17-Jul-86	6955.2	
31-Jul-86	6955.5	
7-Oct-86	6955.0	
8-Dec-86	6955.4	
30-Mar-87	6955.3	
30-Apr-87	6955.4	
18-Aug-87	6955.1	
8-Oct-87	6955.5	
15-Oct-87	6955.2	
15-Jan-88	6955.1	
4-May-88	6955.0	
26-Sep-88	6954.9	
21-Nov-88	6955.0	
1-Mar-89	6954.7	
10-May-89	6954.6	
14-May-89	6953.6	
17-Jul-89	6954.0	
19-Jul-89	6953.9	
20-Jul-89	6954.3	
25-Jul-89	6949.9	
26-Jul-89	6950.3	
27-Jul-89	6949.7	
10-Aug-89	6949.2	
16-Aug-89	6954.3	
24-Aug-89	6954.4	
30-Aug-89	6954.4	
6-Sep-89	6954.3	
13-Sep-89	6954.1	
14-May-90	6953.4	MP=7158.6
11-Jun-90	6949.8	
9-Jan-91	6951.9	
5-Aug-92	6950.2	
22-Oct-92	6950.0	
26-Oct-92	6950.4	
27-Oct-92	6950.4	
29-Oct-92	6950.6	
2-Nov-92	6950.5	
16-Nov-92	6950.3	
1-Dec-92	6950.3	
8-Feb-93	6950.8	
16-Feb-93	6950.6	
11-Mar-93	6950.5	
19-May-93	6950.6	
6-Jul-93	6950.6	
10-Aug-93	6950.6	
14-Sep-94	6949.9	
3-Dec-96	6949.9	
13-Nov-97	6951.8	
30-Jan-98	6951.8	
21-Apr-98	6948.8	
10-Jun-98	6949.0	
10-Nov-98		
12-Feb-99		
18-May-99		
20-Aug-99		



WATER LEVEL ELEVATIONS WELL 54SC

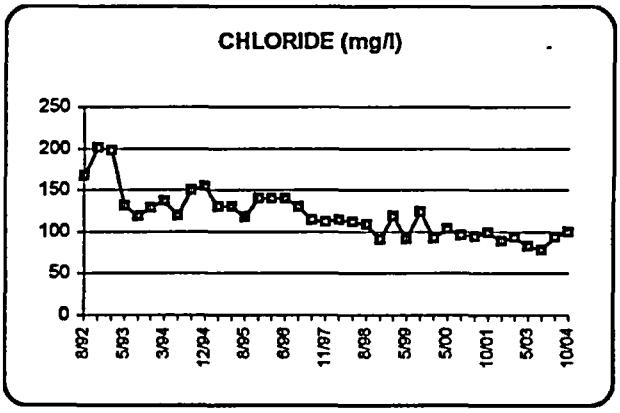
26-Oct-99	6949.9									
16-May-00	6950.4									
15-Nov-00	6950.1									
22-May-01	6950.2	MP=7159.5								
1-Oct-01	6949.7									
15-May-02	6950.6									
16-Oct-02	6950.7									
28-May-03	6950.6									
8-Oct-03	6951.1									
5-May-04	6951.2									
12-Oct-04	6951.2									

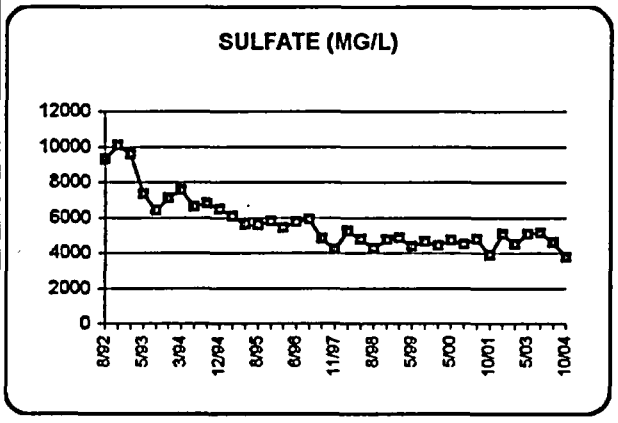
54-SC

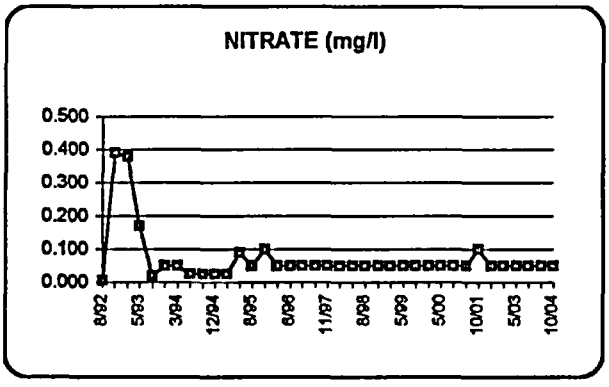

WATER ELEVATION
6958.0
6956.0
6954.0
6952.0
6950.0
6948.0
6946.0
6944.0
18-Jun-86
21-Jun-86
31-Jul-86
8-Dec-86
30-Apr-87
8-Oct-87
15-Jan-88
26-Sep-88
1-Mar-89
14-May-89
19-Jul-89
25-Jul-89
27-Jul-89
16-Aug-89
30-Aug-89
13-Sep-89
11-Jun-90
5-Aug-92
26-Oct-92
29-Oct-92
16-Nov-92
8-Feb-93
11-Mar-93
6-Jul-93
14-Sep-94
13-Nov-97
21-Apr-98
10-Nov-98
18-May-99
26-Oct-99
15-Nov-00
1-Oct-01
16-Oct-02
8-Oct-03

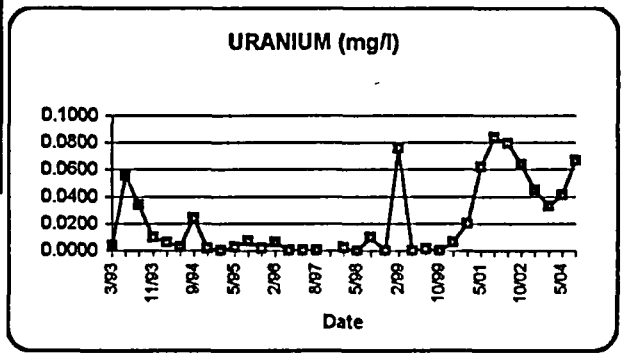
WELL 5DC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Aug-92	168	9300	0.005	0.0510
01-Dec-92	201	10100	0.390	0.0010
01-Mar-93	198	9600	0.380	0.0040
01-May-93	132	7360	0.170	0.0560
01-Aug-93	119	6400	0.020	0.0340
01-Nov-93	129	7100	0.050	0.0100
01-Mar-94	137	7560	0.050	0.0060
01-Jun-94	120	6640	0.025	0.0030
16-Sep-94	150	6800	0.025	0.0240
08-Dec-94	155	6480	0.025	0.0020
16-Feb-95	130	6080	0.025	0.0005
19-May-95	130	5620	0.090	0.0030
30-Aug-95	118	5580	0.050	0.0070
28-Nov-95	140	5790	0.100	0.0020
29-Feb-96	140	5440	0.050	0.0060
05-Jun-96	140	5760	0.050	**0.0005**
19-Feb-97	130	5900	0.050	**0.0005**
20-Aug-97	114	4840	0.050	**0.0005**
11-Nov-97	112	4200	0.050	
04-Feb-98	114	5260	0.050	0.0026
19-May-98	112	4810	0.050	
18-Aug-98	109	4300	0.050	0.0101
12-Nov-98	90.5	4750	0.050	
17-Feb-99	119	4850	0.050	0.0758
18-May-99	91.3	4400	0.050	
24-Aug-99	124	4650	0.050	0.0014
27-Oct-99	92.0	4450	0.050	0.0000
16-May-00	104	4720	0.050	0.0063
25-Oct-00	96.4	4490	0.050	0.0199
22-May-01	94.4	4810	**0.050**	0.0620
01-Oct-01	99.	3900	0.100	0.0840
15-May-02	88.9	5080	**0.050**	0.0796
16-Oct-02	93.4	4500	**0.050**	0.0640
28-May-03	83.2	5090	**0.050**	0.0450
08-Oct-03	78.5	5170	**0.050**	0.0330
05-May-04	93.8	4630	**0.050**	0.0410
14-Oct-04	100.	3800	**0.050**	0.0668

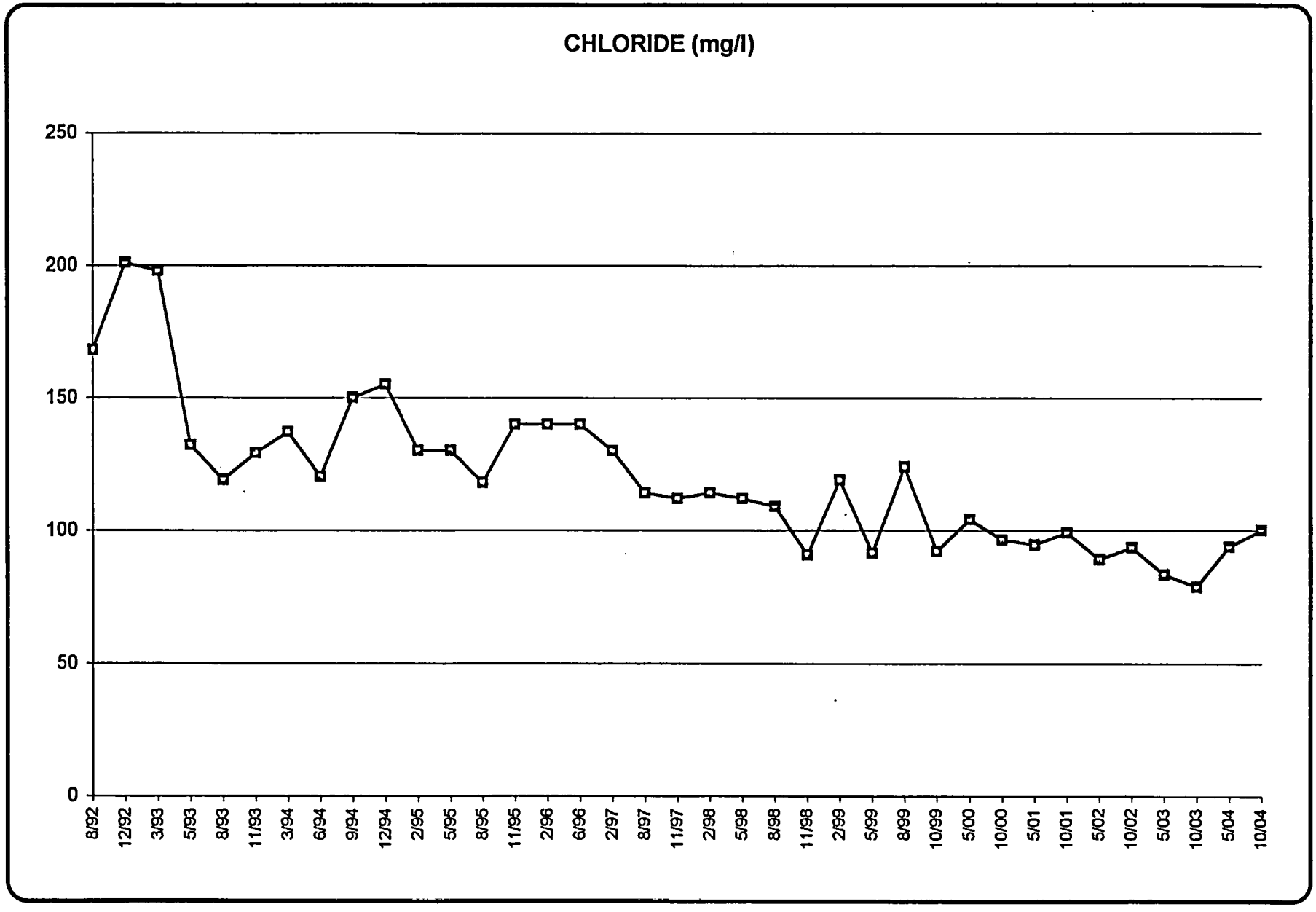




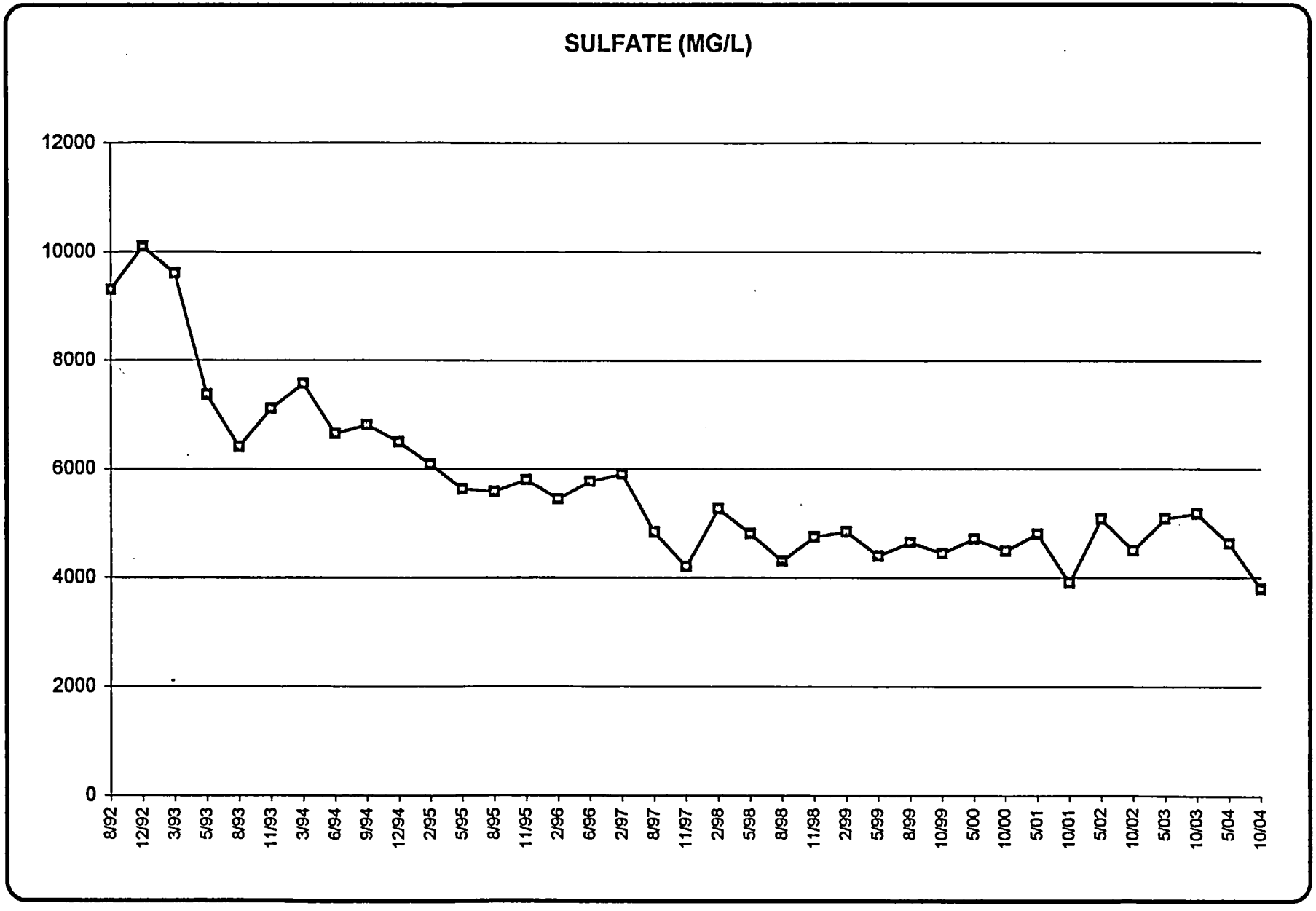




5-DC


CHLORIDE (mg/l)
250
200
150
100
50
0
8/92
12/92
3/93
5/93
8/93
11/93
3/94
6/94
9/94
12/94
2/95
5/95
8/95
11/95
2/96
6/96
2/97
8/97
11/97
2/98
5/98
8/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

5-DC


SULFATE (MG/L)
12000
10000
8000
6000
4000
2000
0
8/92
12/92
3/93
5/93
8/93
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3/94
6/94
9/94
12/94
2/95
5/95
8/95
11/95
2/96
6/96
2/97
8/97
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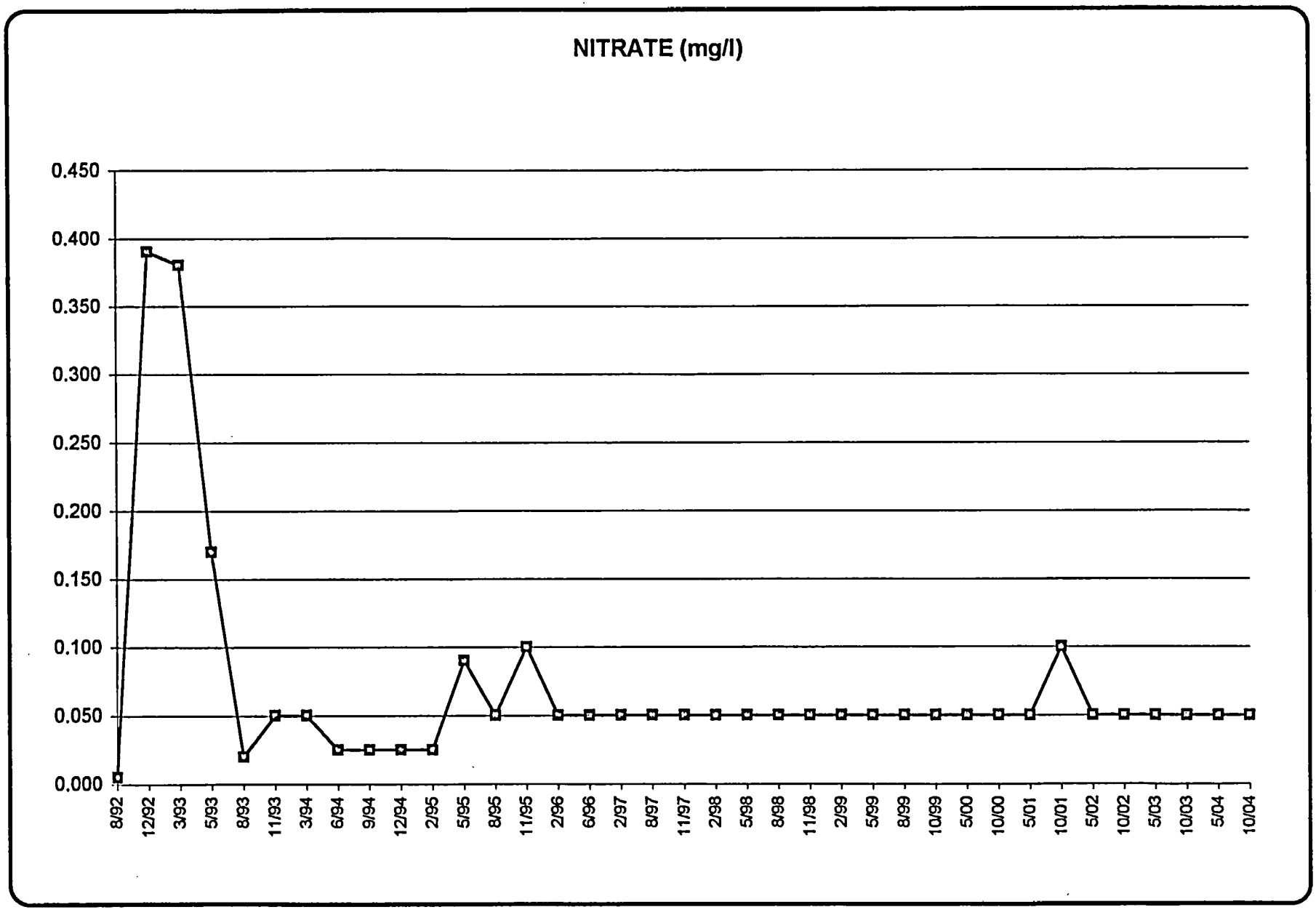
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

5-DC


NITRATE (mg/l)
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
8/92
12/92
3/93
5/93
8/93
11/93
3/94
6/94
9/94
12/94
2/95
5/95
8/95
11/95
2/96
6/96
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11/97
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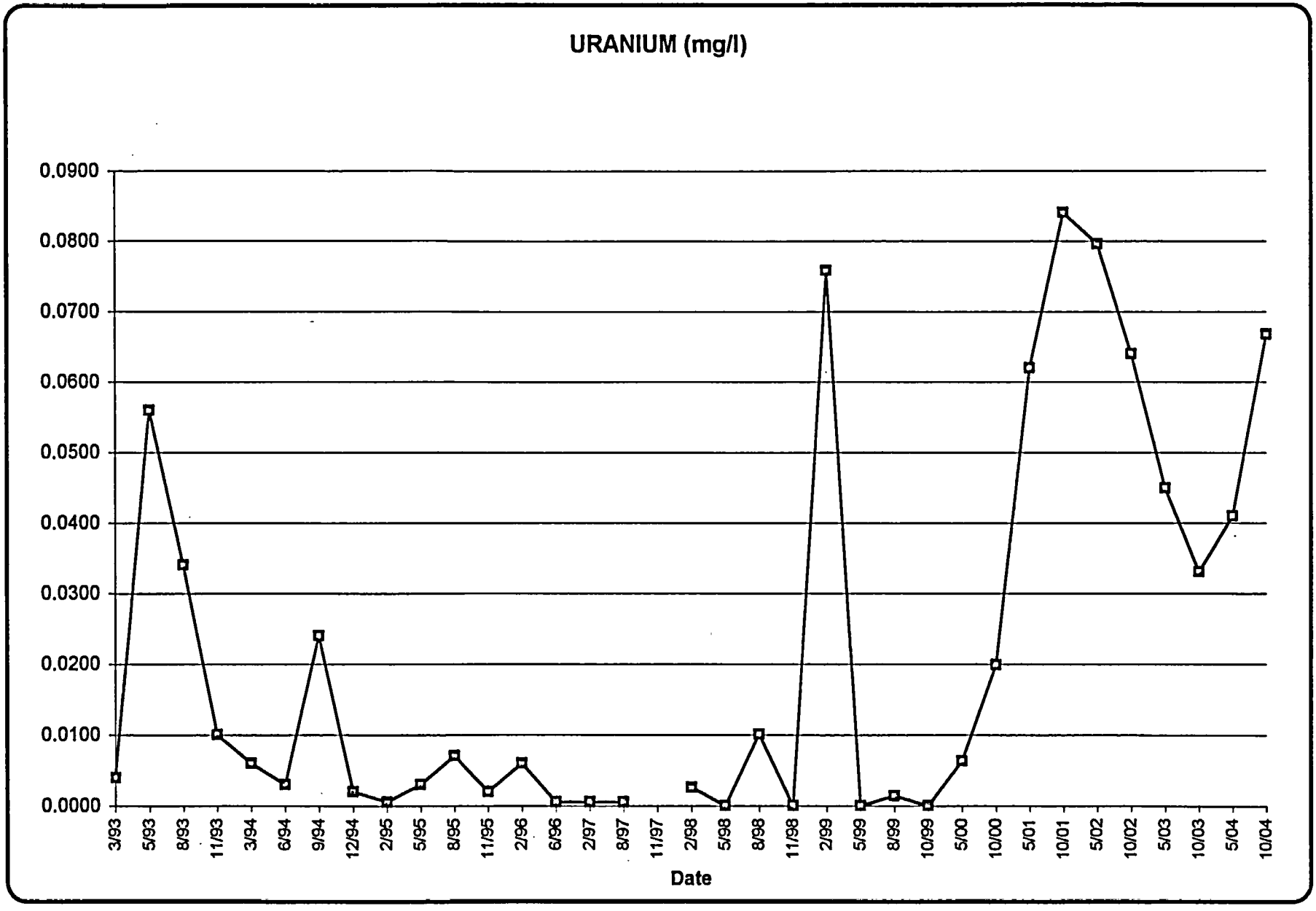
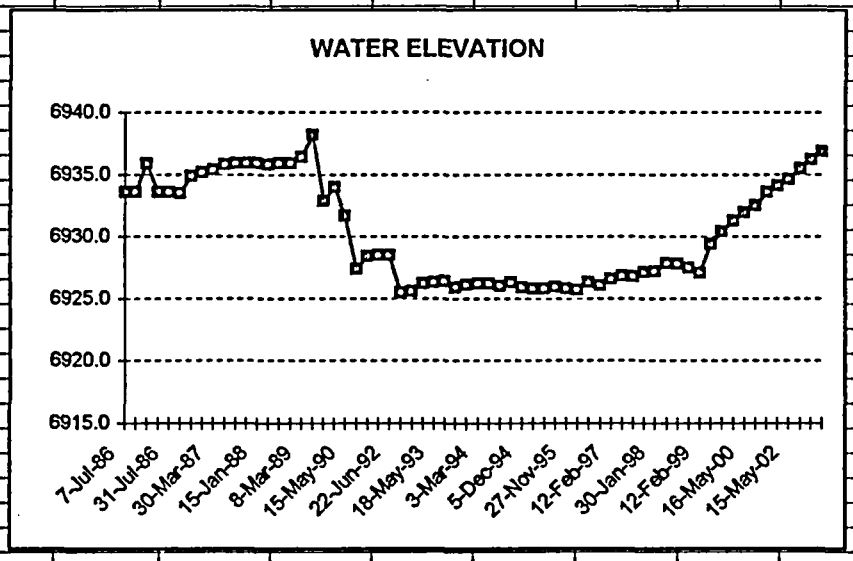
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

5-DC

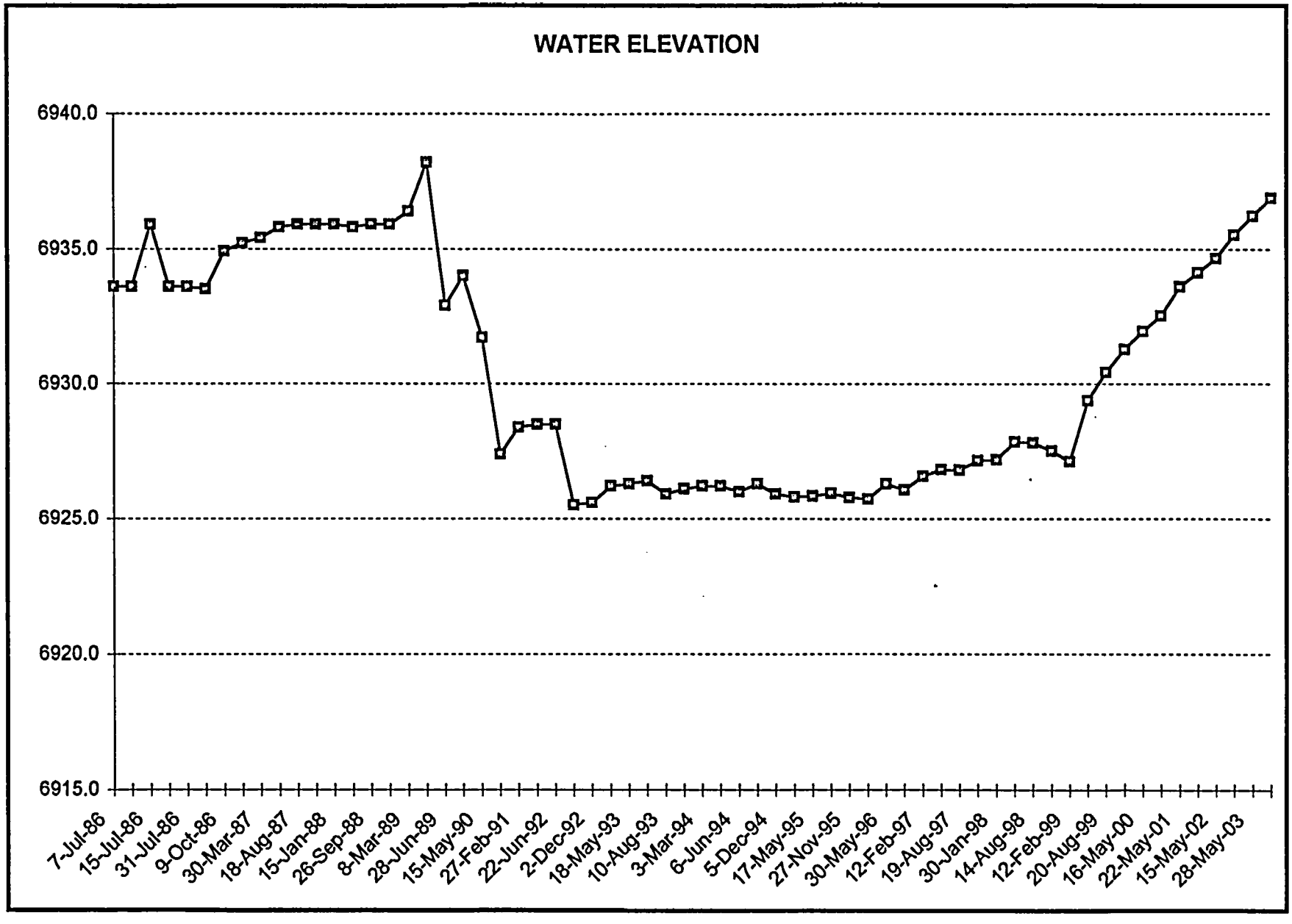

URANIUM (mg/l)
0.0900
0.0800
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
3/93
5/93
8/93
11/93
3/94
6/94
9/94
12/94
2/95
5/95
8/95
11/95
2/96
6/96
2/97
8/97
11/97
2/98
5/98
8/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04
Date

WATER LEVEL ELEVATIONS WELL 5DC

WELL 5DC		
DATE	W.L. ELEV	
7-Jul-86	6933.0	MP=7119.3
8-Jul-86	6933.0	
15-Jul-86	6933.6	
16-Jul-86	6933.6	
31-Jul-86	6935.9	
30-Sep-86	6933.6	
9-Oct-86	6933.6	
8-Dec-86	6933.5	
30-Mar-87	6934.9	
30-Apr-87	6935.2	
18-Aug-87	6935.4	
19-Oct-87	6935.8	
15-Jan-88	6935.9	
4-May-88	6935.9	
26-Sep-88	6935.9	
22-Nov-88	6935.8	
8-Mar-89	6935.9	
10-May-89	6935.9	
28-Jun-89	6936.4	
5-Mar-90	6938.2	
15-May-90	6932.9	MP=7117.2
12-Jun-90	6934.0	
27-Feb-91	6931.7	
23-Apr-92	6927.4	MP=7117.4
22-Jun-92	6928.4	
8-Jul-92	6928.5	
2-Dec-92	6928.5	
13-May-93	6925.5	
18-May-93	6925.6	
6-Jul-93	6926.2	
10-Aug-93	6926.3	
1-Dec-93	6926.4	
3-Mar-94	6925.9	
21-Apr-94	6926.1	
6-Jun-94	6926.2	
14-Sep-94	6926.2	
5-Dec-94	6926.0	
13-Feb-95	6926.3	
17-May-95	6925.9	
28-Aug-95	6925.8	
27-Nov-95	6925.8	
19-Feb-96	6926.0	
30-May-96	6925.8	
1-Aug-96	6925.7	
12-Feb-97	6926.3	
12-May-97	6926.1	
19-Aug-97	6926.6	
7-Nov-97	6926.8	
30-Jan-98	6926.8	
13-May-98	6927.2	
14-Aug-98	6927.2	
10-Nov-98	6927.9	
12-Feb-99	6927.8	
18-May-99	6927.5	
20-Aug-99	6927.1	
26-Oct-99	6929.4	
16-May-00	6930.4	
15-Nov-00	6931.3	
22-May-01	6932.0	MP=7120.3
1-Oct-01	6932.5	
15-May-02	6933.6	
16-Oct-02	6934.1	
28-May-03	6934.6	
8-Oct-03	6935.5	
5-May-04	6936.2	
14-Oct-04	6936.9	

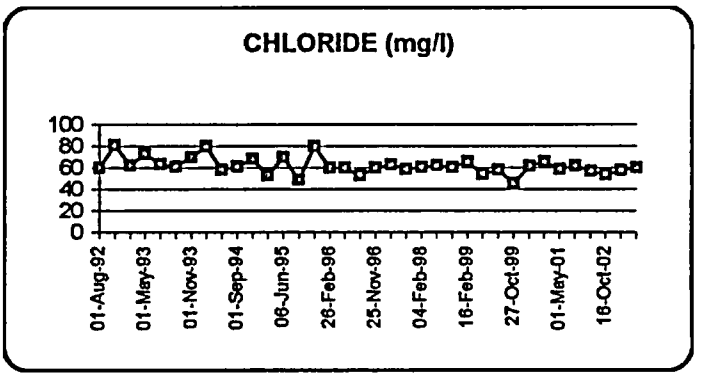


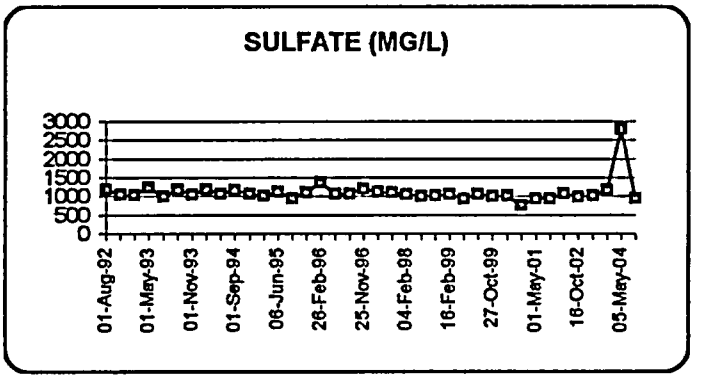
5-DC

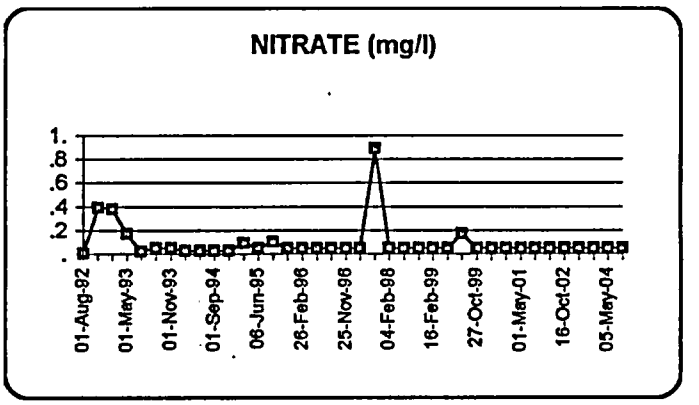

WATER ELEVATION
6940.0
6935.0
6930.0
6925.0
6920.0
6915.0
7-Jul-86
15-Jul-86
31-Jul-86
9-Oct-86
30-Mar-87
18-Aug-87
15-Jan-88
26-Sep-88
8-Mar-89
28-Jun-89
15-May-90
27-Feb-91
22-Jun-92
2-Dec-92
18-May-93
10-Aug-93
3-Mar-94
6-Jun-94
5-Dec-94
17-May-95
27-Nov-95
30-May-96
12-Feb-97
19-Aug-97
30-Jan-98
14-Aug-98
12-Feb-99
20-Aug-99
16-May-00
22-May-01
15-May-02
28-May-03

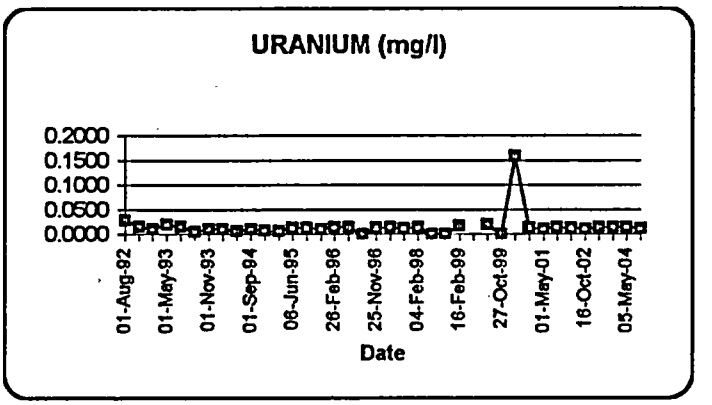
WELL 10DC

DATE	CHLORIDE	SO4	NO3	URANIUM
01-Aug-92	70	1200	.005	0.0290
01-Dec-92	74	1060	.39	0.0150
01-Mar-93	60	1040	.38	0.0100
01-May-93	81	1250	.17	0.0200
01-Jun-93	62	1000	.02	0.0150
01-Aug-93	73	1200	.05	0.0050
01-Nov-93	63	1050	.05	0.0110
01-Mar-94	61	1200	.025	0.0100
01-Jun-94	70	1070	.025	0.0070
01-Sep-94	80	1170	.025	0.0110
01-Dec-94	58	1080	.025	0.0080
14-Feb-95	61.	1020	.09	0.0060
06-Jun-95	68.	1125	.05	0.0130
28-Aug-95	53.	960	.1	0.0130
27-Nov-95	70.	1100	.05	0.0110
26-Feb-96	49.	1380	.05	0.0140
03-Jun-96	80	1075	.05	0.0140
05-Aug-96	60	1070	.05	0.0001
25-Nov-96	60	1210	.05	0.0130
17-Feb-97	53	1120	.05	0.0140
20-May-97	60	1100	.89	0.0120
04-Feb-98	62.8	1060	.05	0.0140
20-May-98	59.0	1000	.05	
11-Nov-98	60.7	1020	.05	
16-Feb-99	62.3	1060	.05	0.0166
18-May-99	60.8	944	.05	
24-Aug-99	65.8	1050	.17	0.0190
27-Oct-99	53.9	1010	.05	0.0000
16-May-00	58.3	1020	.05	0.1590
21-Oct-00	45.7	759	.05	0.0130
01-May-01	61.5	946	.05	0.0110
Oct-01	66.	930	.05	0.0140
15-May-02	59.1	1070	.05	0.0131
16-Oct-02	61.6	983	.05	0.0110
28-May-03	56.9	1030	.05	0.0140
08-Oct-03	53.5	1180	.05	0.0140
05-May-04	57.5	2790	.05	0.0140
14-Oct-04	60.	960	.05	0.0116

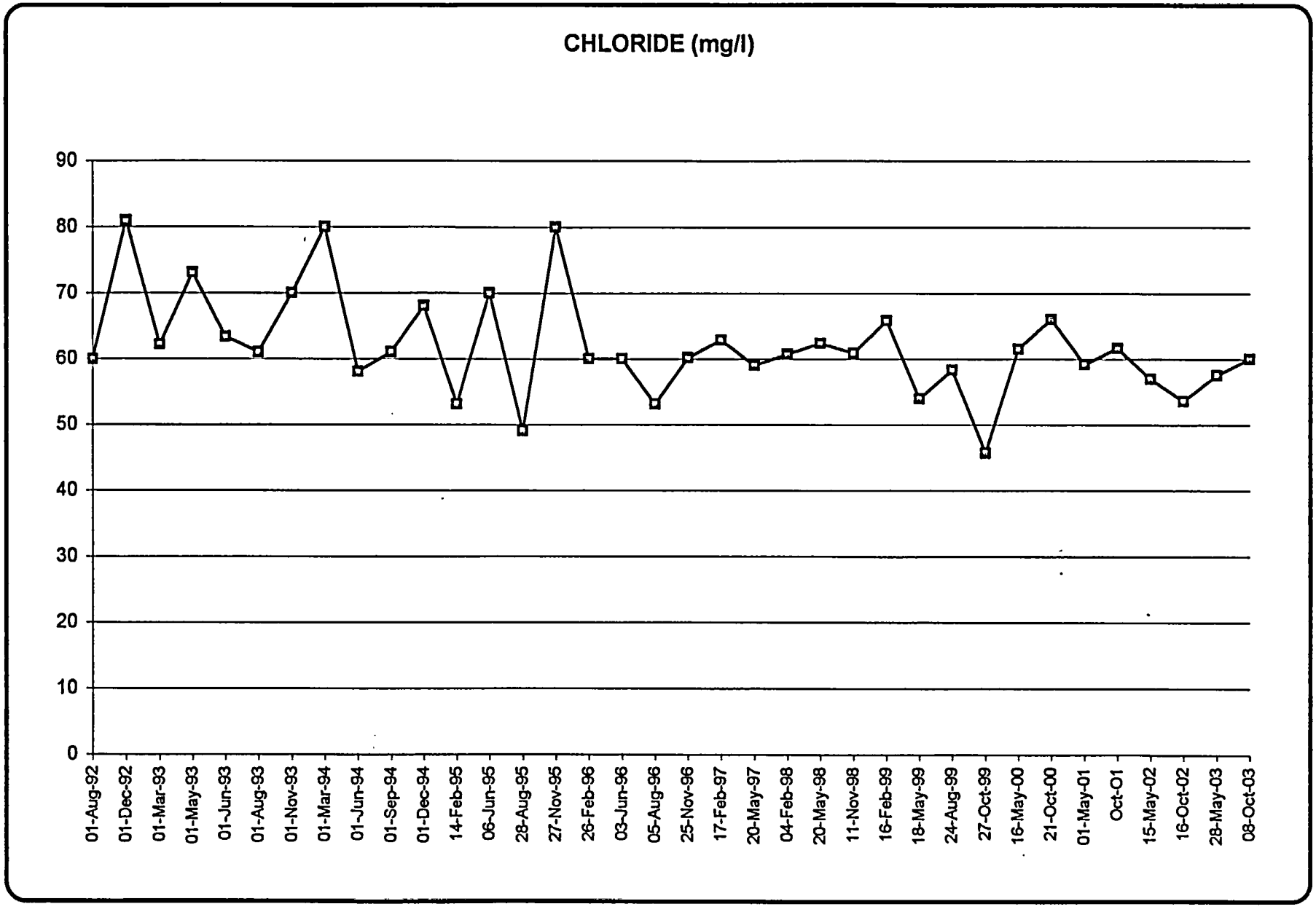




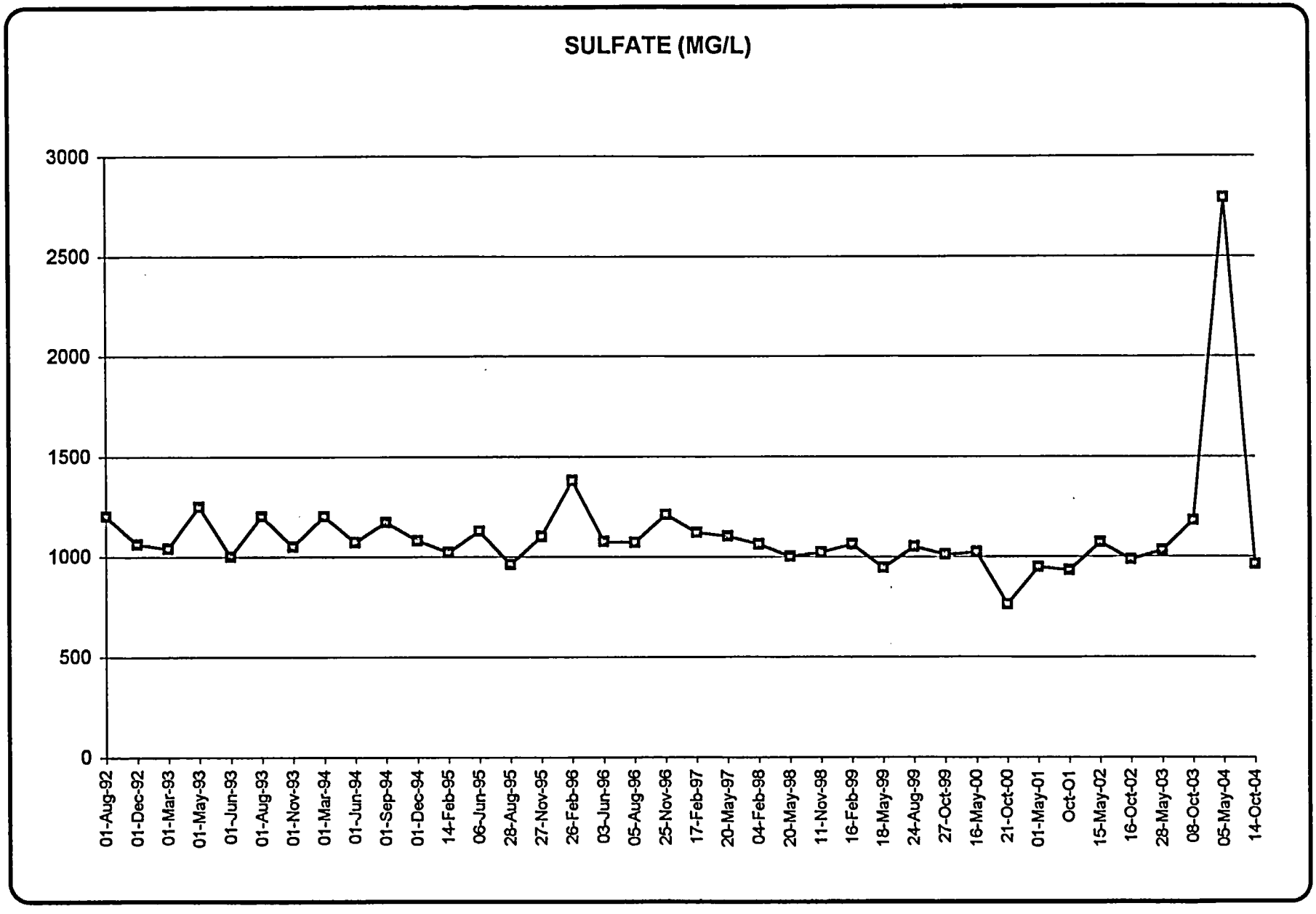




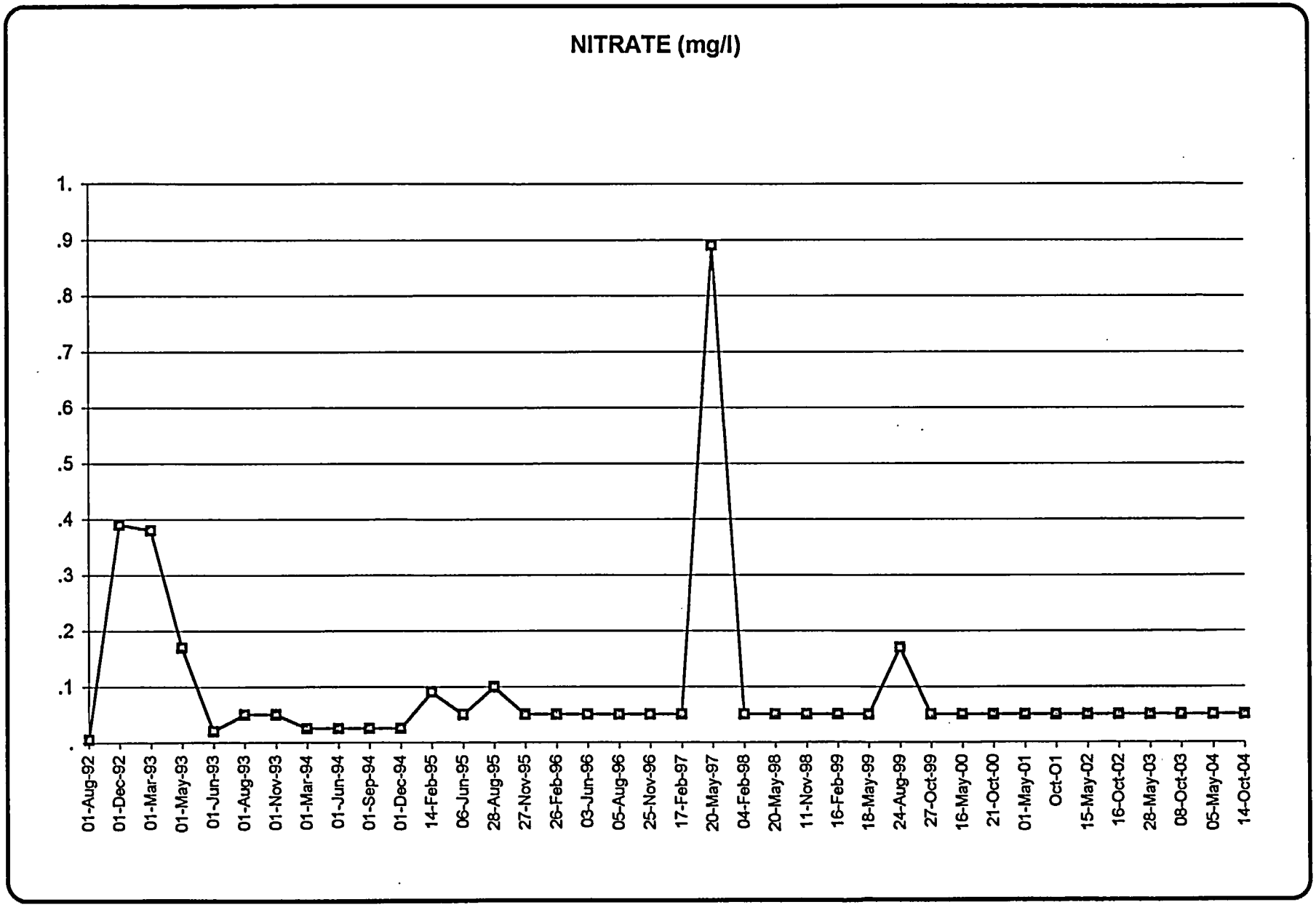
10-DC


CHLORIDE (mg/l)
90
80
70
60
50
40
30
20
10
0
01-Aug-92
01-Dec-92
01-Mar-93
01-May-93
01-Jun-93
01-Aug-93
01-Nov-93
01-Mar-94
01-Jun-94
01-Sep-94
01-Dec-94
14-Feb-95
06-Jun-95
28-Aug-95
27-Nov-95
26-Feb-96
03-Jun-96
05-Aug-96
25-Nov-96
17-Feb-97
20-May-97
04-Feb-98
20-May-98
11-Nov-98
16-Feb-99
18-May-99
24-Aug-99
27-Oct-99
16-May-00
21-Oct-00
01-May-01
Oct-01
15-May-02
16-Oct-02
28-May-03
08-Oct-03

10-DC


SULFATE (MG/L)
3000
2500
2000
1500
1000
500
0
01-Aug-92
01-Dec-92
01-Mar-93
01-May-93
01-Jun-93
01-Aug-93
01-Nov-93
01-Mar-94
01-Jun-94
01-Sep-94
01-Dec-94
14-Feb-95
06-Jun-95
28-Aug-95
27-Nov-95
26-Feb-96
03-Jun-96
05-Aug-96
25-Nov-96
17-Feb-97
20-May-97
04-Feb-98
20-May-98
11-Nov-98
16-Feb-99
18-May-99
24-Aug-99
27-Oct-99
16-May-00
21-Oct-00
01-May-01
Oct-01
15-May-02
16-Oct-02
28-May-03
08-Oct-03
05-May-04
14-Oct-04

10-DC


NITRATE (mg/l)
1.
.9
.8
.7
.6
.5
.4
.3
.2
.1
.
01-Aug-92
01-Dec-92
01-Mar-93
01-May-93
01-Jun-93
01-Aug-93
01-Nov-93
01-Mar-94
01-Jun-94
01-Sep-94
01-Dec-94
14-Feb-95
06-Jun-95
28-Aug-95
27-Nov-95
26-Feb-96
03-Jun-96
05-Aug-96
25-Nov-96
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20-May-97
04-Feb-98
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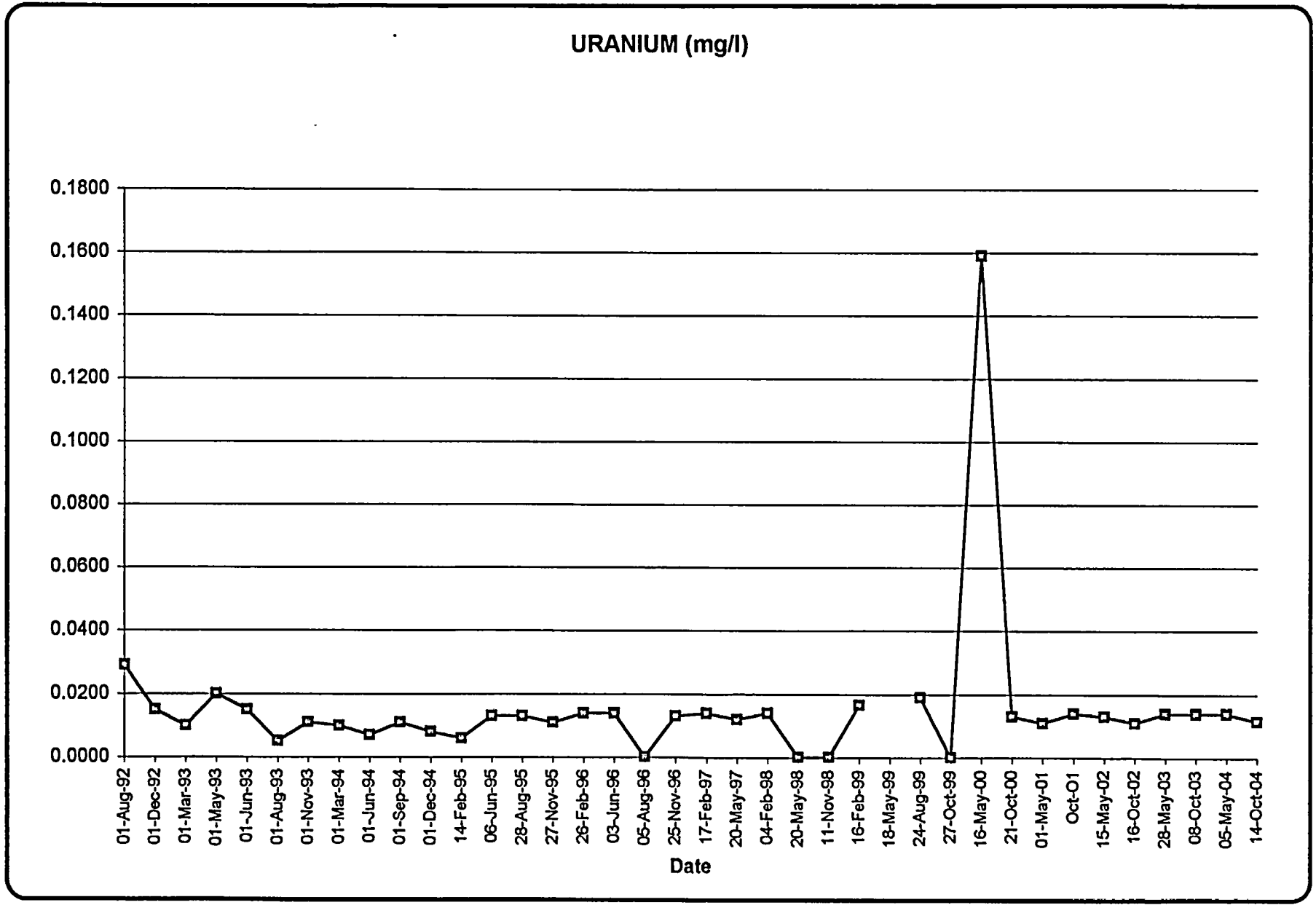
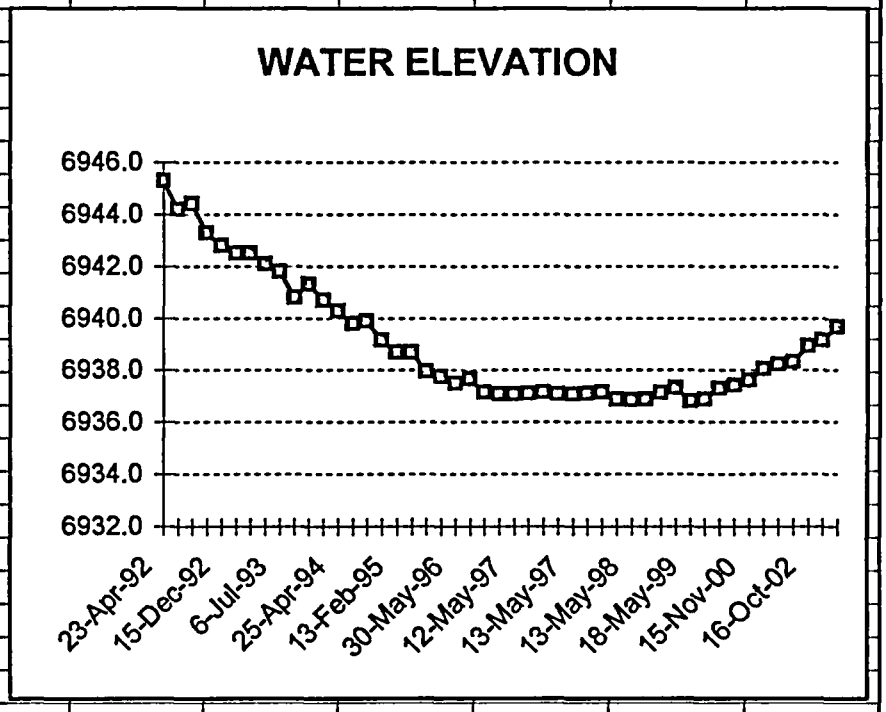
27-Oct-99
16-May-00
21-Oct-00
01-May-01
Oct-01
15-May-02
16-Oct-02
28-May-03
08-Oct-03
05-May-04
14-Oct-04

10-DC

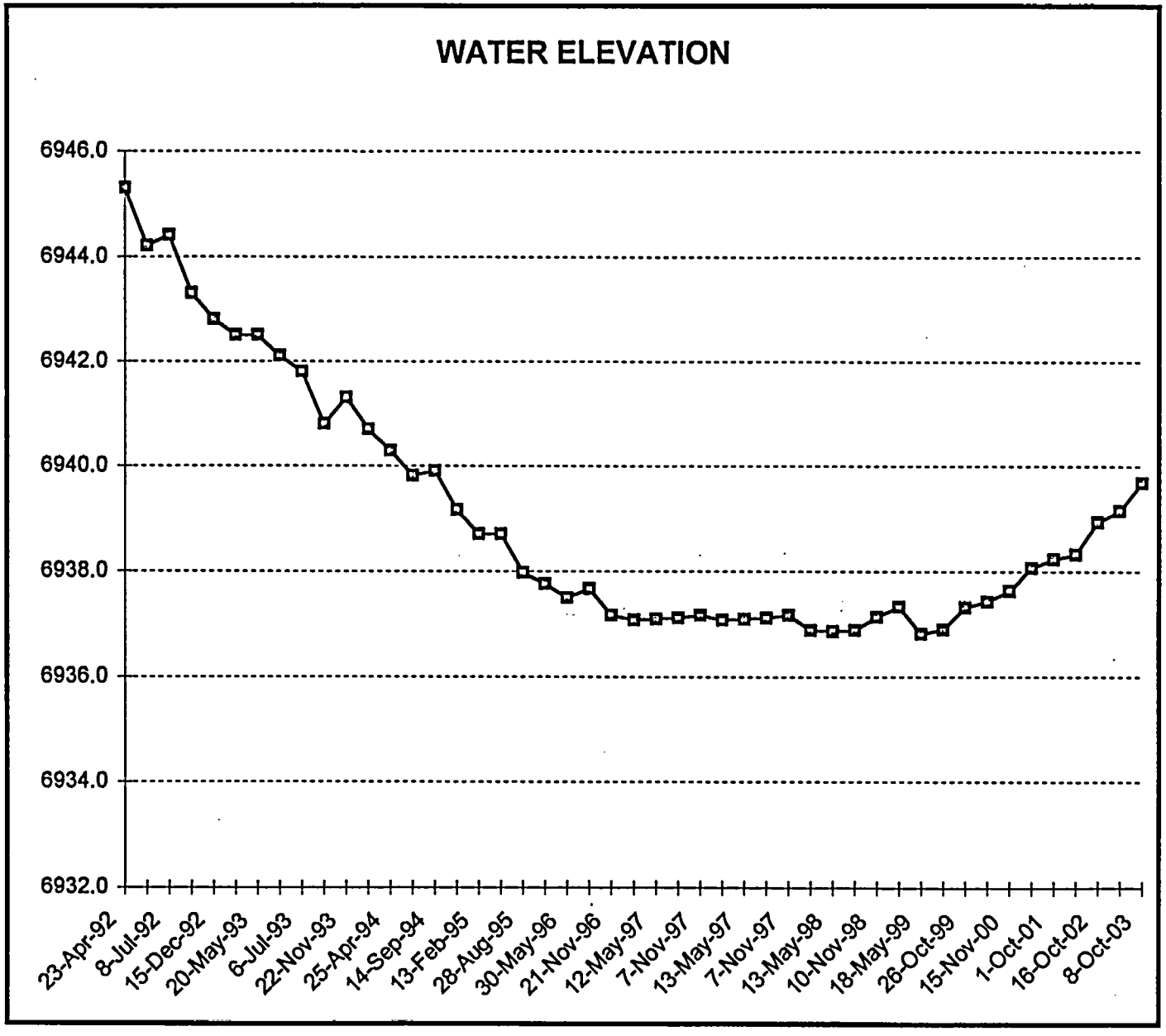

URANIUM (mg/l)
0.1800
0.1600
0.1400
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
01-Aug-92
01-Dec-92
01-Mar-93
01-May-93
01-Jun-93
01-Aug-93
01-Nov-93
01-Mar-94
01-Jun-94
01-Sep-94
01-Dec-94
14-Feb-95
06-Jun-95
28-Aug-95
27-Nov-95
26-Feb-96
03-Jun-96
05-Aug-96
25-Nov-96
17-Feb-97
20-May-97
04-Feb-98
20-May-98
11-Nov-98
16-Feb-99
18-May-99
24-Aug-99
27-Oct-99
16-May-00
21-Oct-00
01-May-01
Oct-01
15-May-02
16-Oct-02
28-May-03
08-Oct-03
05-May-04
14-Oct-04
Date

WATER LEVEL ELEVATIONS WELL 10DC

WELL 10DC		
DATE	ELEV.	
23-Apr-92	6946.2	MP=7111.9
7-May-92	6946.2	MP=7112.7
8-Jul-92	6945.3	
1-Dec-92	6944.2	
15-Dec-92	6944.4	
8-Mar-93	6943.3	
20-May-93	6942.8	
21-Jun-93	6942.5	
6-Jul-93	6942.5	
10-Aug-93	6942.1	
22-Nov-93	6941.8	
3-Mar-94	6940.8	
25-Apr-94	6941.3	
6-Jun-94	6940.7	
14-Sep-94	6940.3	
5-Dec-94	6939.8	
13-Feb-95	6939.9	
17-May-95	6939.2	
28-Aug-95	6938.7	
19-Feb-96	6938.7	
30-May-96	6938.0	
1-Aug-96	6937.8	
21-Nov-96	6937.5	
12-Feb-97	6937.7	
12-May-97	6937.2	
19-Aug-97	6937.1	
7-Nov-97	6937.1	
30-Jan-97	6937.1	
13-May-97	6937.2	
19-Aug-97	6937.1	
7-Nov-97	6937.1	
30-Jan-98	6937.1	
13-May-98	6937.2	
14-Aug-98	6936.9	
10-Nov-98	6936.9	
12-Feb-99	6936.9	
18-May-99	6937.1	
20-Aug-99	6937.3	
26-Oct-99	6936.8	
16-May-00	6936.9	
15-Nov-00	6937.3	
23-May-01	6937.4	MP=7113.6
1-Oct-01	6937.6	
15-May-02	6938.1	
16-Oct-02	6938.2	
28-May-03	6938.3	
8-Oct-03	6938.9	
5-May-04	6939.2	
14-Oct-04	6939.7	

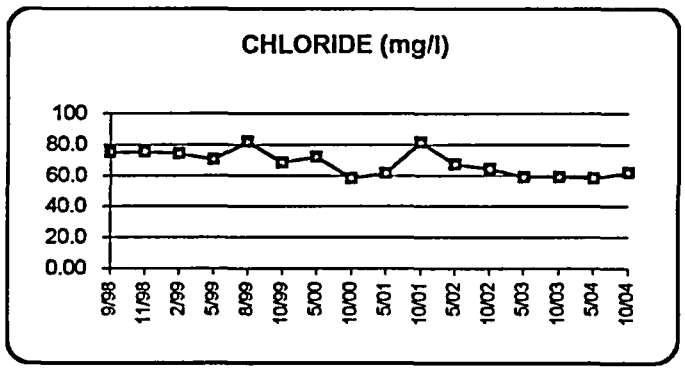


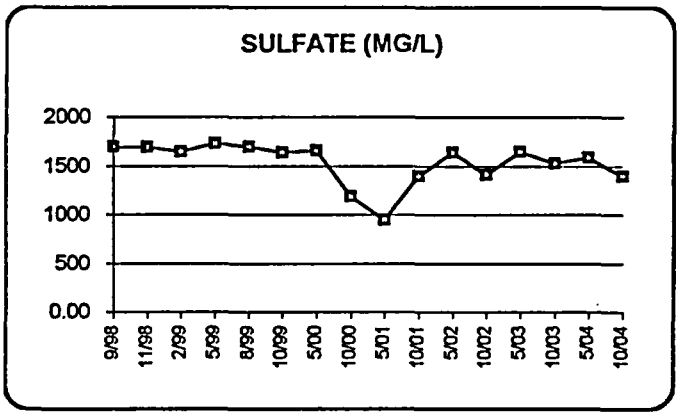
10-DC

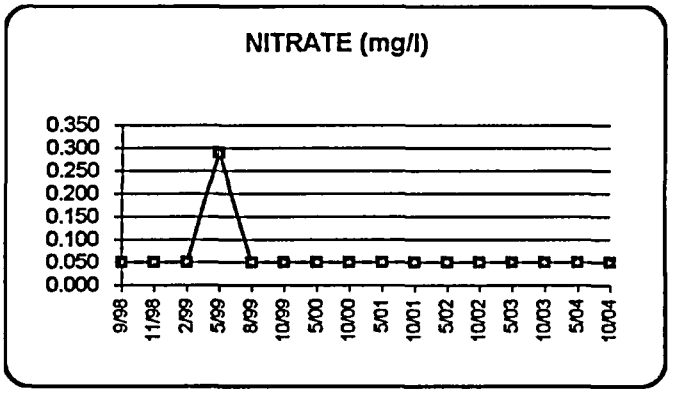

WATER ELEVATION
6946.0
6944.0
6942.0
6940.0
6938.0
6936.0
6934.0
6932.0
23-Apr-92
8-Jul-92
15-Dec-92
20-May-93
6-Jul-93
22-Nov-93
25-Apr-94
14-Sep-94
13-Feb-95
28-Aug-95
30-May-96
21-Nov-96
12-May-97
7-Nov-97
13-May-97
7-Nov-97
13-May-98
10-Nov-98
18-May-99
26-Oct-99
15-Nov-00
1-Oct-01
16-Oct-02
8-Oct-03

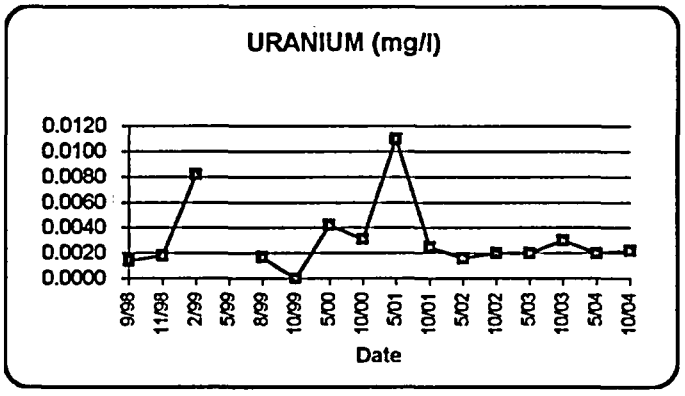
WELL 19DC

DATE	CHLORIDE	SO4	NO3	URANIUM
02-Sep-98	74.8	1700	0.050	0.0014
11-Nov-98	75.3	1690	0.050	0.0018
17-Feb-99	74.1	1650	0.050	0.0082
18-May-99	70.4	1730	0.290	
24-Aug-99	81.8	1700	0.050	0.0017
27-Oct-99	68.6	1640	0.050	0.0000
16-May-00	72.2	1660	0.050	0.0042
21-Oct-00	58.2	1190	0.050	0.0031
22-May-01	61.5	946	0.050	0.0110
01-Oct-01	81.4	1400	0.050	0.0025
15-May-02	67	1640	0.050	0.0016
16-Oct-02	64	1410	0.050	0.0020
28-May-03	59	1650	0.050	0.0020
08-Oct-03	59	1530	0.050	0.0030
05-May-04	58.40	1590	0.05	0.002
14-Oct-04	62.00	1400	0.05	0.0022

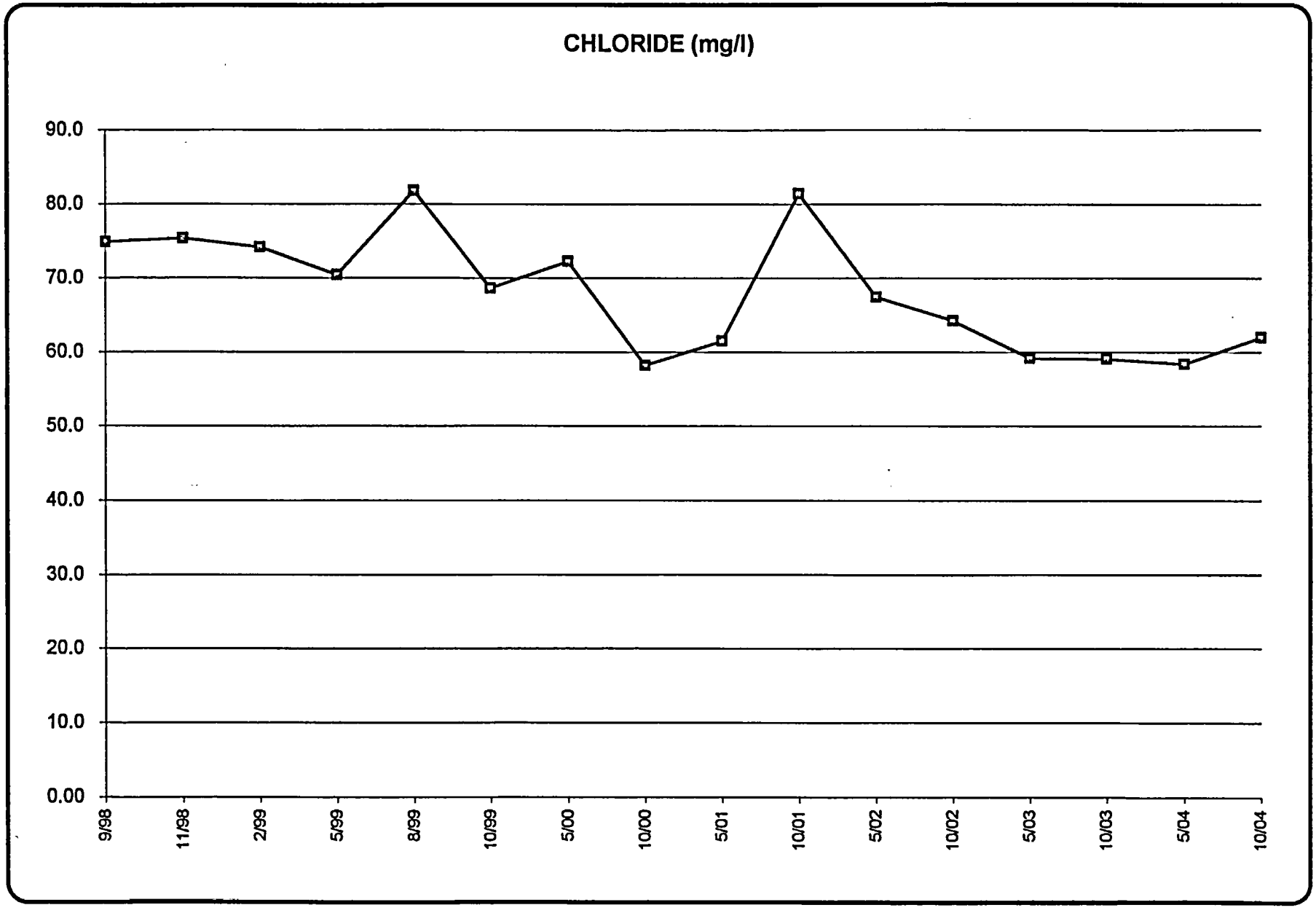




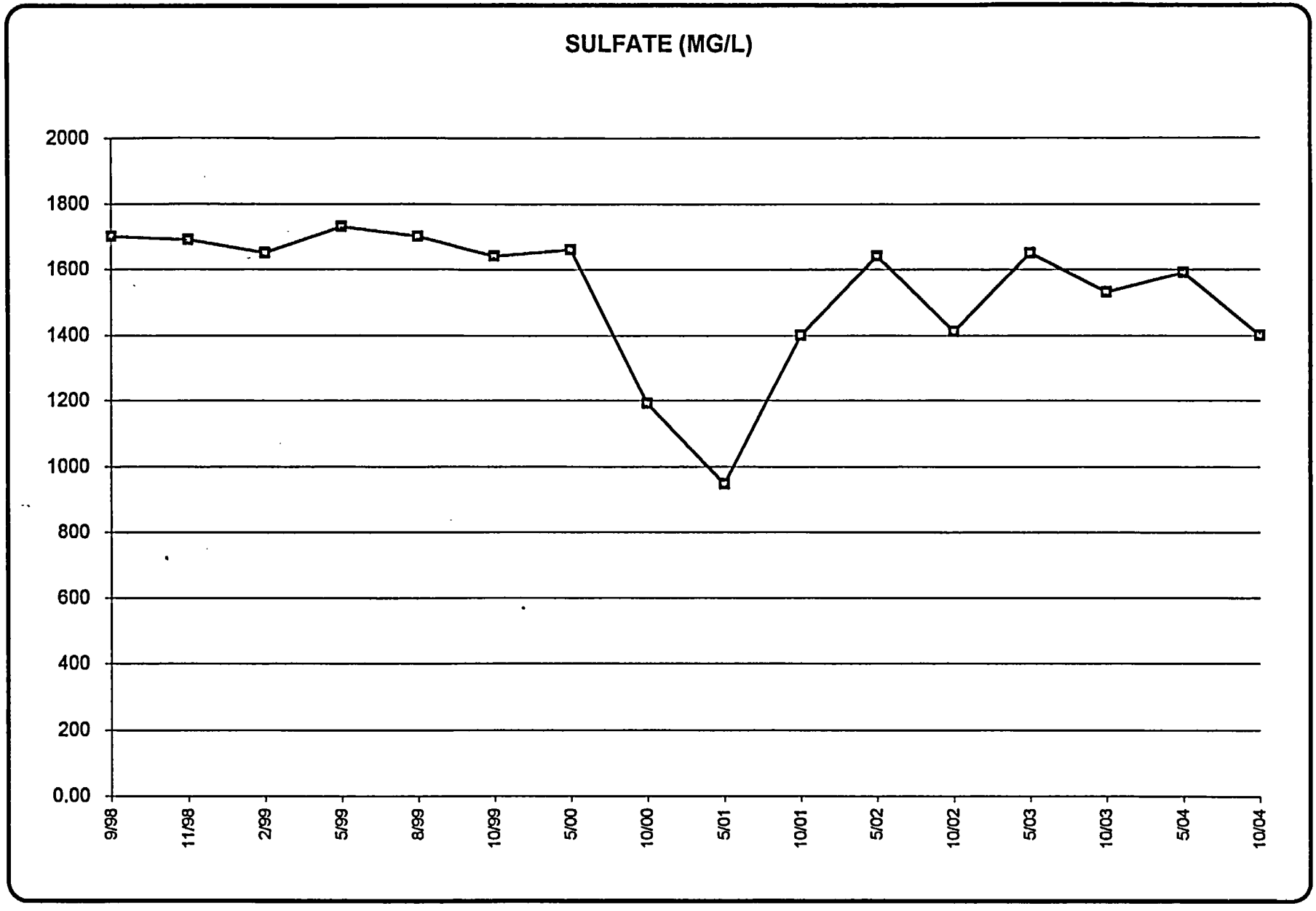




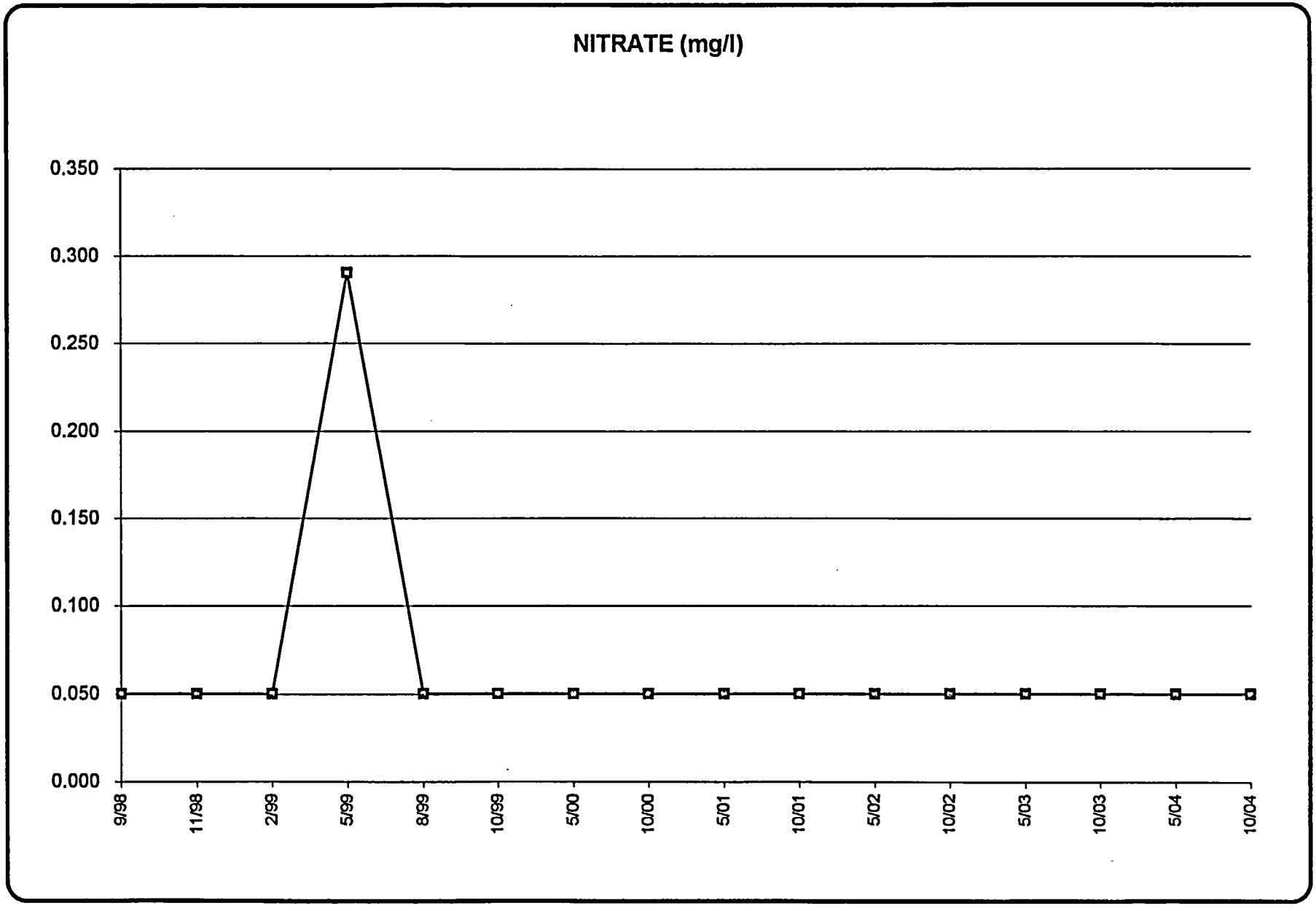
19-DC


CHLORIDE (mg/l)
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.00
9/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

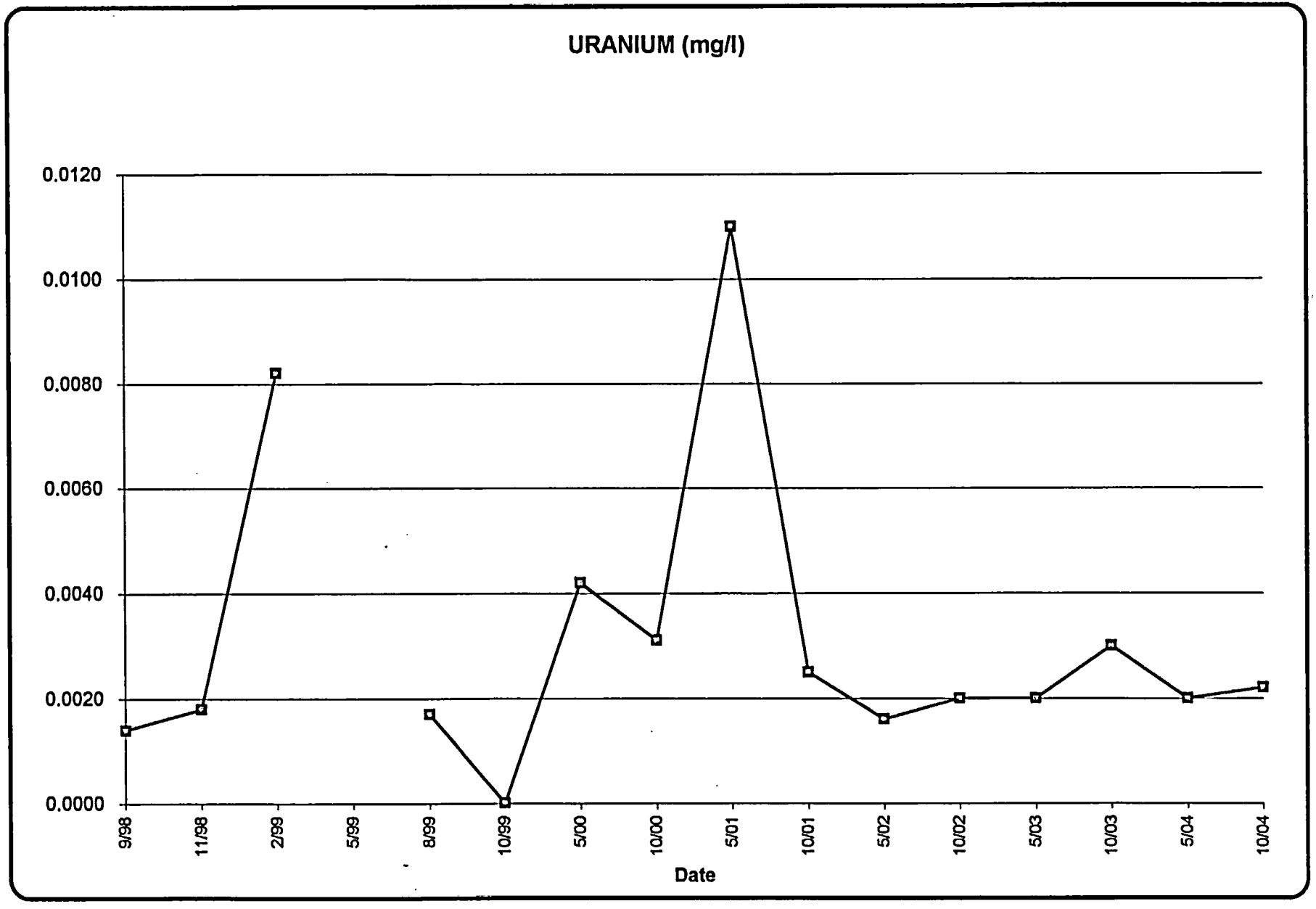
19-DC


SULFATE (MG/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0.00
9/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

19-DC

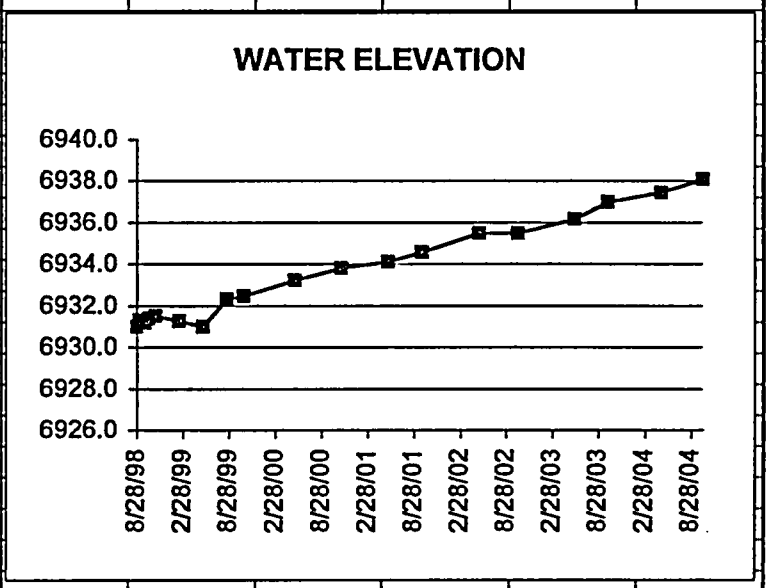

NITRATE (mg/l)
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
9/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04

19-DC

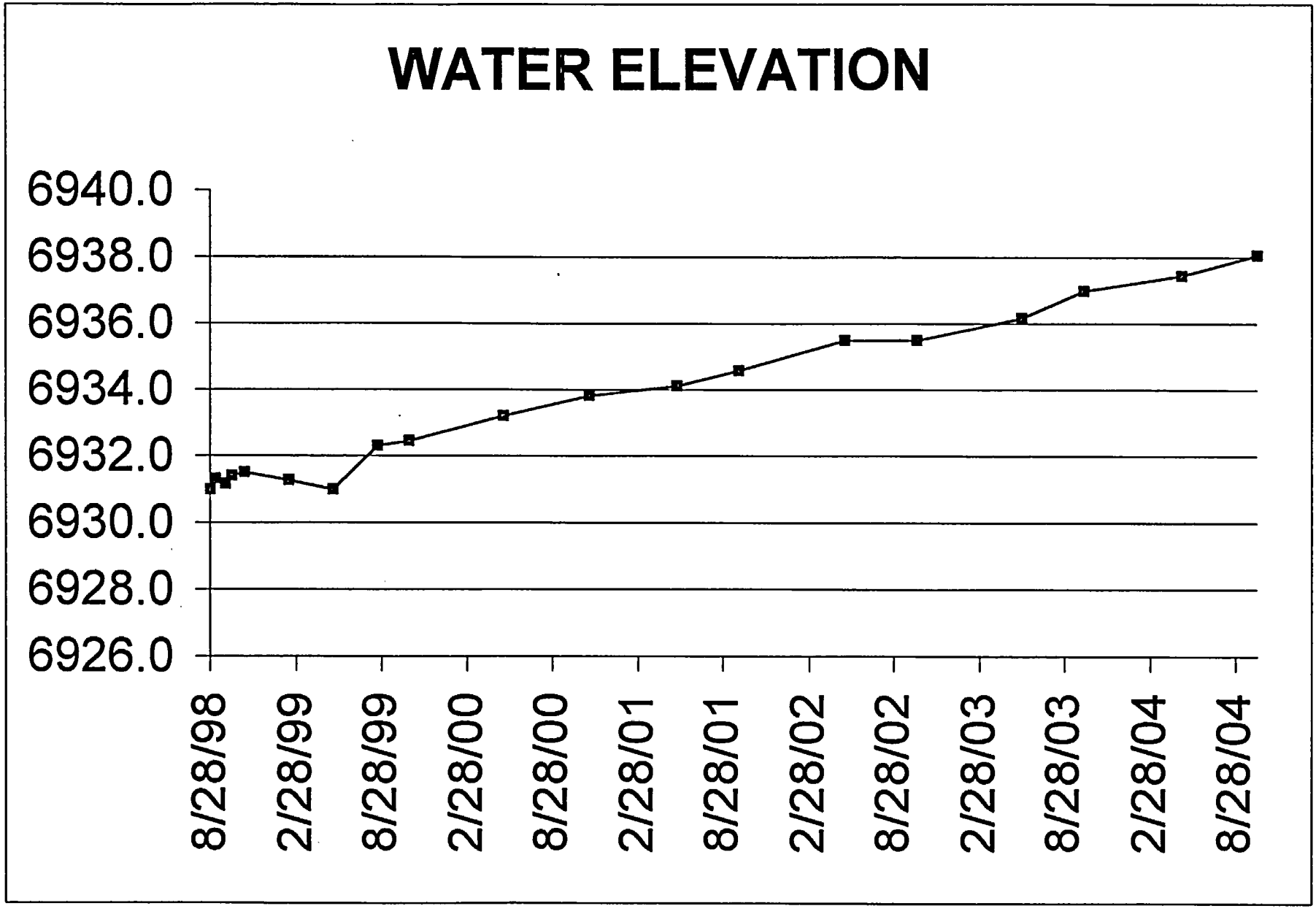

URANIUM (mg/l)
0.0120
0.0100
0.0080
0.0060
0.0040
0.0020
0.0000
9/98
11/98
2/99
5/99
8/99
10/99
5/00
10/00
5/01
10/01
5/02
10/02
5/03
10/03
5/04
10/04
Date

WATER LEVEL ELEVATIONS WELL 19DC

WELL 19DC		
DATE	ELEV.	
28-Aug-98	6931.0	MP=7111.8
8-Sep-98	6931.3	
30-Sep-98	6931.2	
14-Oct-98	6931.4	
10-Nov-98	6931.5	
12-Feb-99	6931.3	
18-May-99	6931.0	
20-Aug-99	6932.3	
26-Oct-99	6932.4	
16-May-00	6933.2	
15-Nov-00	6933.8	MP=7112.4
22-May-01	6934.1	
1-Oct-01	6934.6	
15-May-02	6935.5	
16-Oct-02	6935.5	
28-May-03	6936.2	
8-Oct-03	6937.0	
5-May-04	6937.4	
14-Oct-04	6938.1	

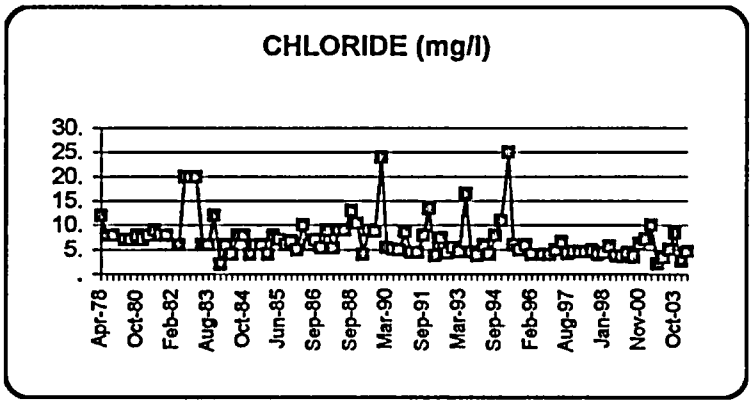


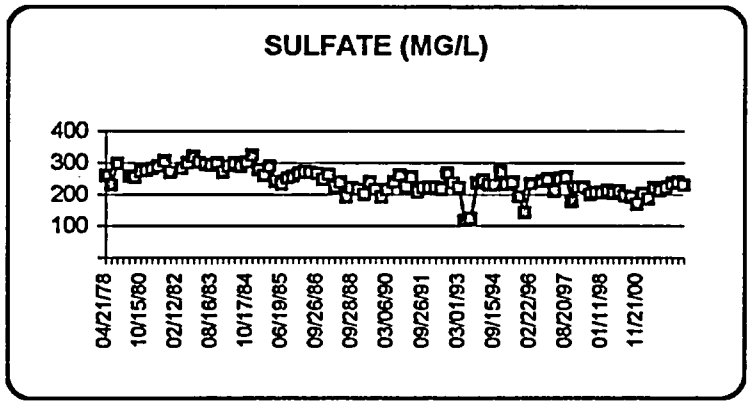
19-DC

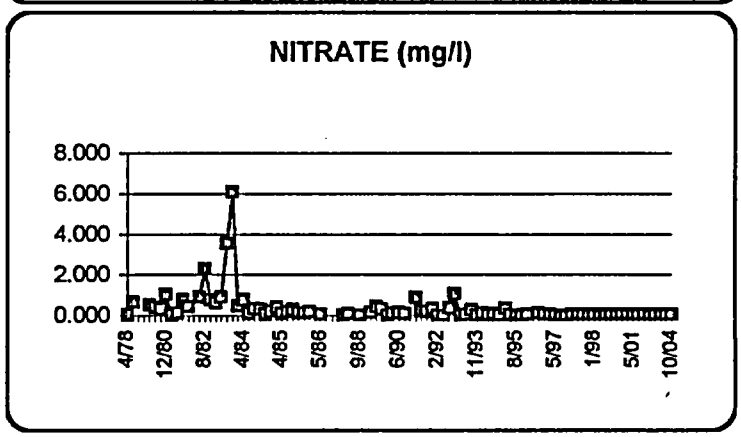

WATER ELEVATION
6940.0
6938.0
6936.0
6934.0
6932.0
6930.0
6928.0
6926.0
8/28/98
2/28/99
8/28/99
2/28/00
8/28/00
2/28/01
8/28/01
2/28/02
8/28/02
2/28/03
8/28/03
2/28/04
8/28/04

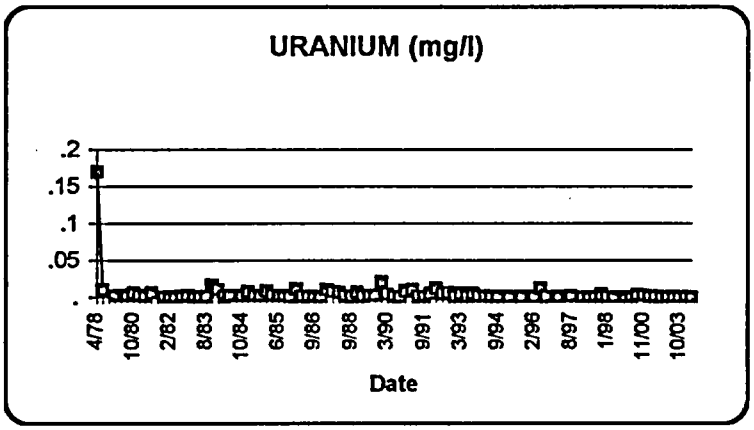
MINE SHOP WELL

DATE	CHLORIDE	SO4	NO3	URANIUM
21-Apr-78	12.	260	0.030	.17
14-Jun-79	8.	230	0.650	.01
14-Sep-79	8.	298		
08-Oct-79				.0025
31-Mar-80	7.	257	0.530	
02-Jul-80	7.	254	0.400	.0025
15-Oct-80	8.	274	0.320	.006
18-Dec-80	7.	276	1.020	.0025
27-Mar-81	8.	282	0.025	.002
17-Jun-81	9.	290	0.120	.006
29-Sep-81	8.	306	0.790	
10-Nov-81	8.	270	0.440	.0004
12-Feb-82				.0005
04-Jun-82	6.	282	0.900	.0005
10-Aug-82	20.	300	2.300	.002
05-Oct-82	20.	320	0.780	.003
23-Feb-83	20.	302	0.620	.001
10-May-83	6.	294	0.900	.001
16-Aug-83	6.	292	3.550	.001
06-Oct-83	12.	300	6.100	.016
05-Jan-84	2.	270	0.460	.01
04-Apr-84	6.	290	0.770	.001
09-Aug-84	4.	300	0.090	.003
25-Sep-84	8.	287	0.340	
17-Oct-84	8.	302	0.320	.0025
21-Jan-85	4.	324	0.060	.008
14-Feb-85	6.	277	0.210	.0025
14-Mar-85	6.	260	0.400	.0025
16-Apr-85	4.	290	0.080	.009
20-May-85	8.	241	0.200	.0025
19-Jun-85	7.	231	0.300	.0025
16-Jul-85	6.	252	0.110	.0025
14-Aug-85	6.8	258	0.130	.001
15-Oct-85	5.	268	0.200	.011
31-Mar-86	10.	272		.0005
22-May-86	6.	270	0.070	.002
26-Sep-86	7.	266		.0005
31-Mar-87	5.3	248		.0005
11-Jun-87	9.	264		.01
15-Sep-87	5.4	224	0.005	.008
04-Dec-87	9.	240	0.080	.007
29-Mar-88	9.	190		.002
28-Sep-88	13.	222	0.010	.0005
22-Nov-89	10.5	216		.007
30-Mar-89	4.	200	0.150	.001
11-May-89	9.	240	0.450	.003
26-Sep-89	8.7	216	0.320	.003
21-Nov-89	24.	190	0.005	.021
06-Mar-90	5.5	216	0.140	.004
11-Jun-90	5.1	240	0.150	.0005
10-Sep-90	4.9	262	0.100	.0005
12-Dec-90	8.7	224		.009
11-Feb-91	4.5	256	0.880	.01
12-Jun-91	4.5	208	0.210	.0005
26-Sep-91	7.9	221	0.180	.0005
03-Dec-91	13.4	224	0.330	.005
20-Feb-92	3.8	224	.005	.012
04-Jun-92	7.4	216	.005	.004
26-Aug-92	4.3	268	0.370	.006





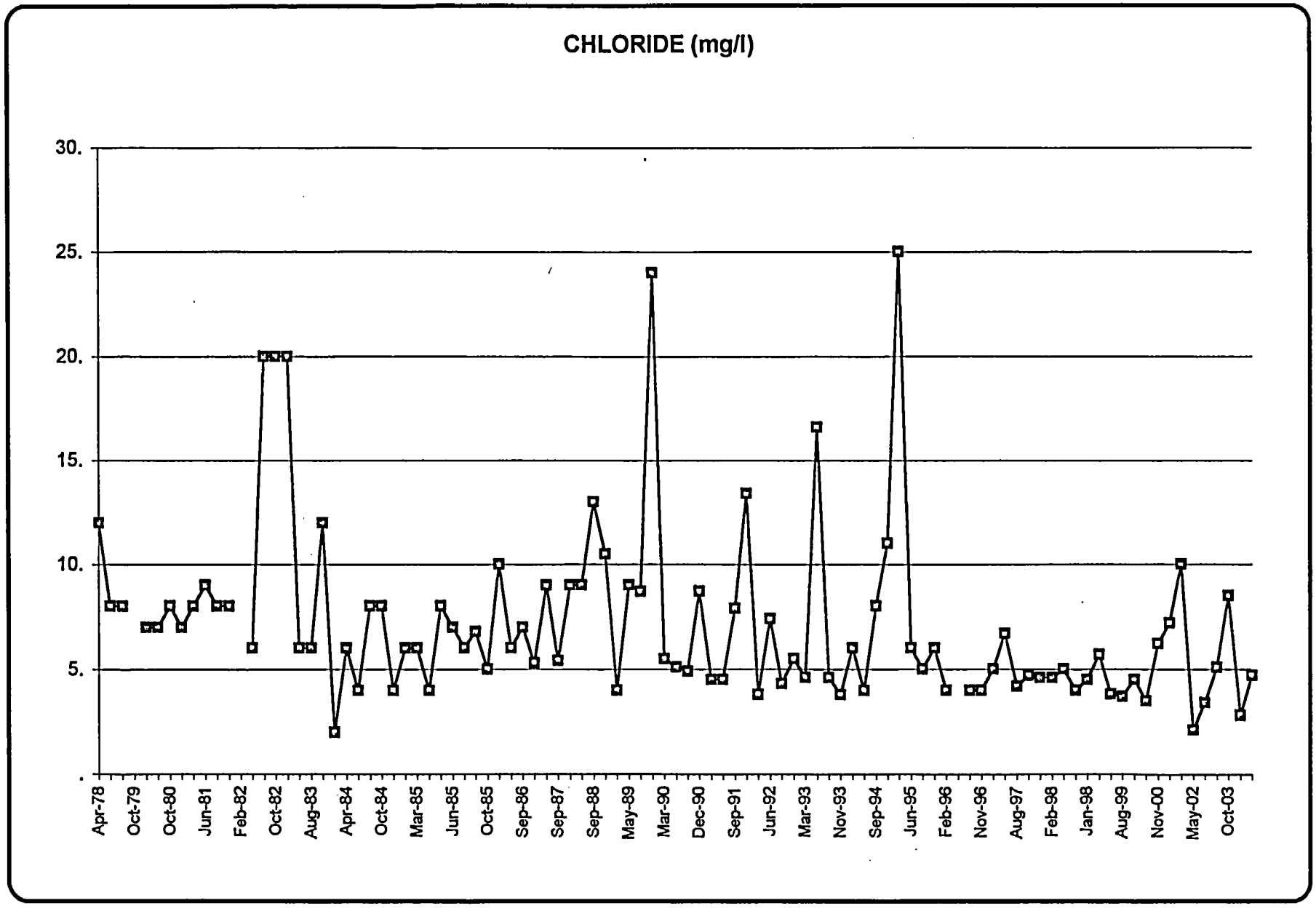




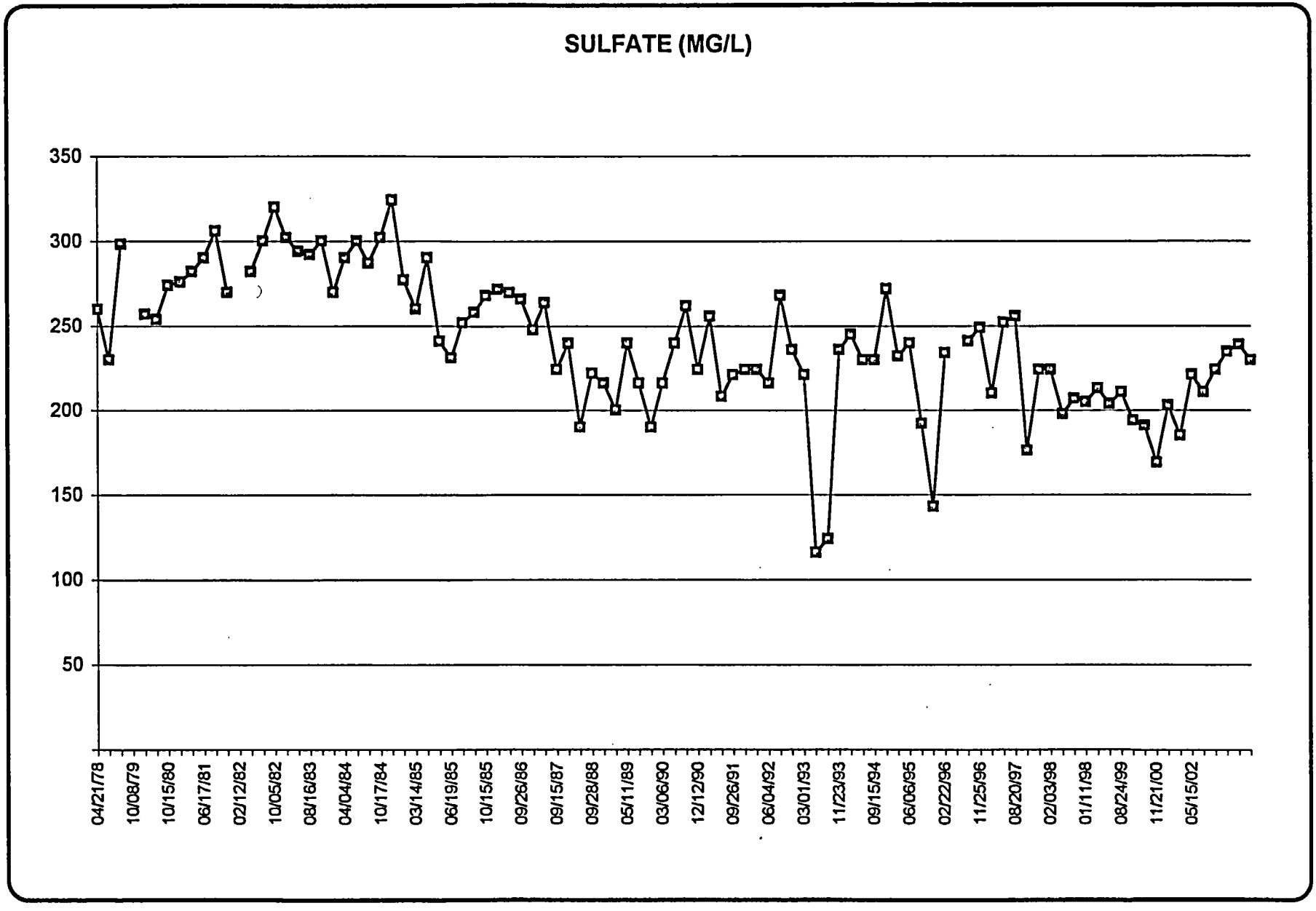
MINE SHOP WELL

02-Dec-92	5.5	236	1.080	.0005
01-Mar-93	4.6	221	0.005	.005
20-May-93	16.6	116	0.060	.001
10-Aug-93	4.6	124	0.290	.005
23-Nov-93	3.8	236	0.005	.002
08-Mar-94	6.	245	0.110	.002
08-Jun-94	4.	230	0.025	.001
15-Sep-94	8.	230	0.080	.0005
06-Dec-94	11.	272	0.025	
16-Feb-95	25.	232	0.340	.0005
06-Jun-95	6.	240	0.025	
28-Aug-95	5.	192	0.025	.0005
27-Nov-95	6.	143	0.025	
22-Feb-96	4.	234	0.050	.0005
22-Feb-96				.012
06-Aug-96	4.	241	0.120	.0005
25-Nov-96	4.	249	0.050	
20-Feb-97	5.	210	0.050	.0005
20-May-97	6.7	252	0.005	
20-Aug-97	4.2	256	0.005	.002
11-Nov-97	4.7	176	0.005	
03-Feb-98	4.6	224	0.050	0.0004
03-Feb-98	4.6	224	0.050	0.0004
20-May-98	5.0	198	0.050	
20-Aug-98	4.0	207	0.050	0.0046
11-Jan-98	4.5	205	0.050	
16-Feb-99	5.7	213	0.050	0.0004
18-May-99	3.8	204	0.050	
24-Aug-99	3.7	211	0.050	0.0002
27-Oct-99	4.5	194	0.050	0.0000
16-May-00	3.5	191	0.050	0.0033
21-Nov-00	6.2	169	0.050	0.0027
22-May-01	7.2	203	0.050	0.0002
01-Oct-01	10	185	0.050	0.0016
15-May-02	2.1	221	0.050	0.0003
16-Oct-02	3.4	211	0.050	0.0005
28-May-03	5.1	224	0.050	0.0005
08-Oct-03	8.5	235	0.050	0.0005
05-May-04	2.8	239	0.050	0.0005
12-Oct-04	4.7	230	0.050	0.00015

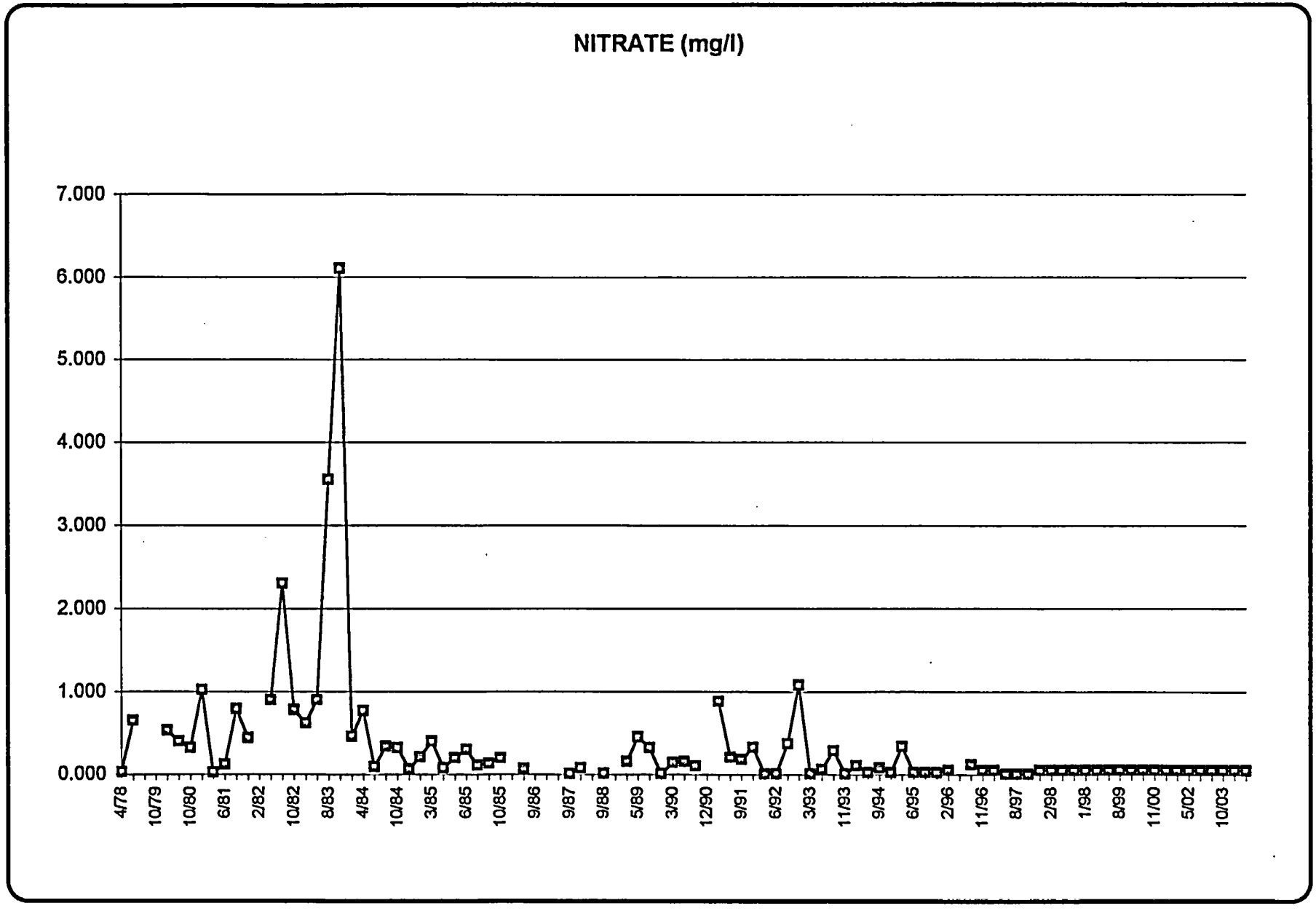
Mine Shop Well



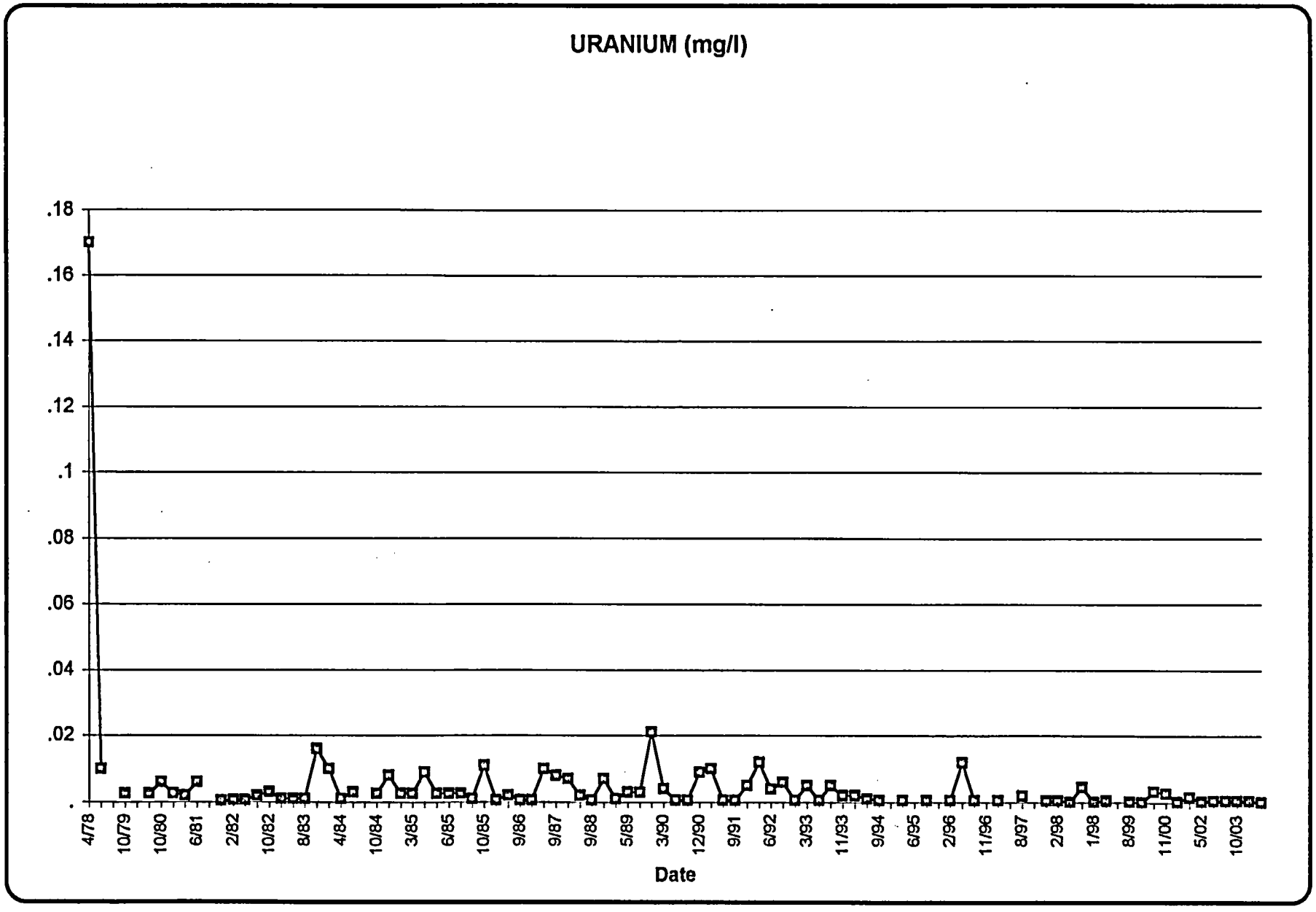
Mine Shop Well



Mine Shop Well



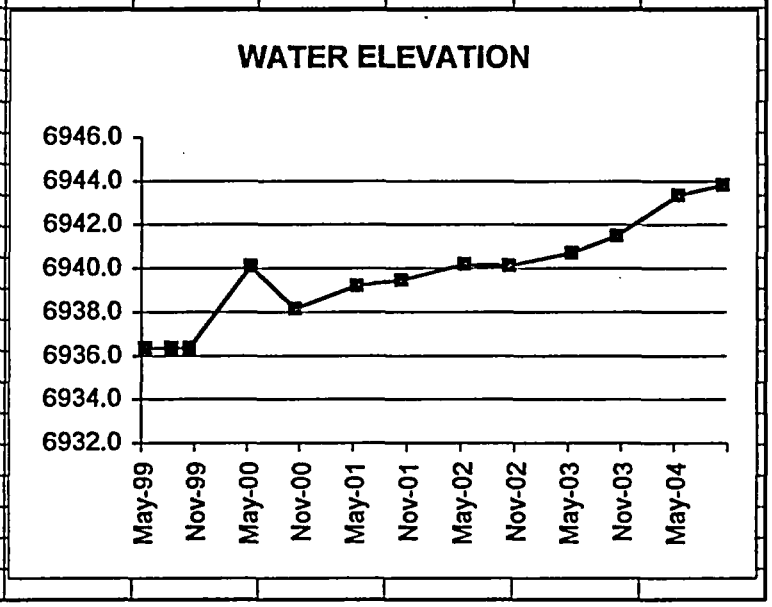
Mine Shop Well



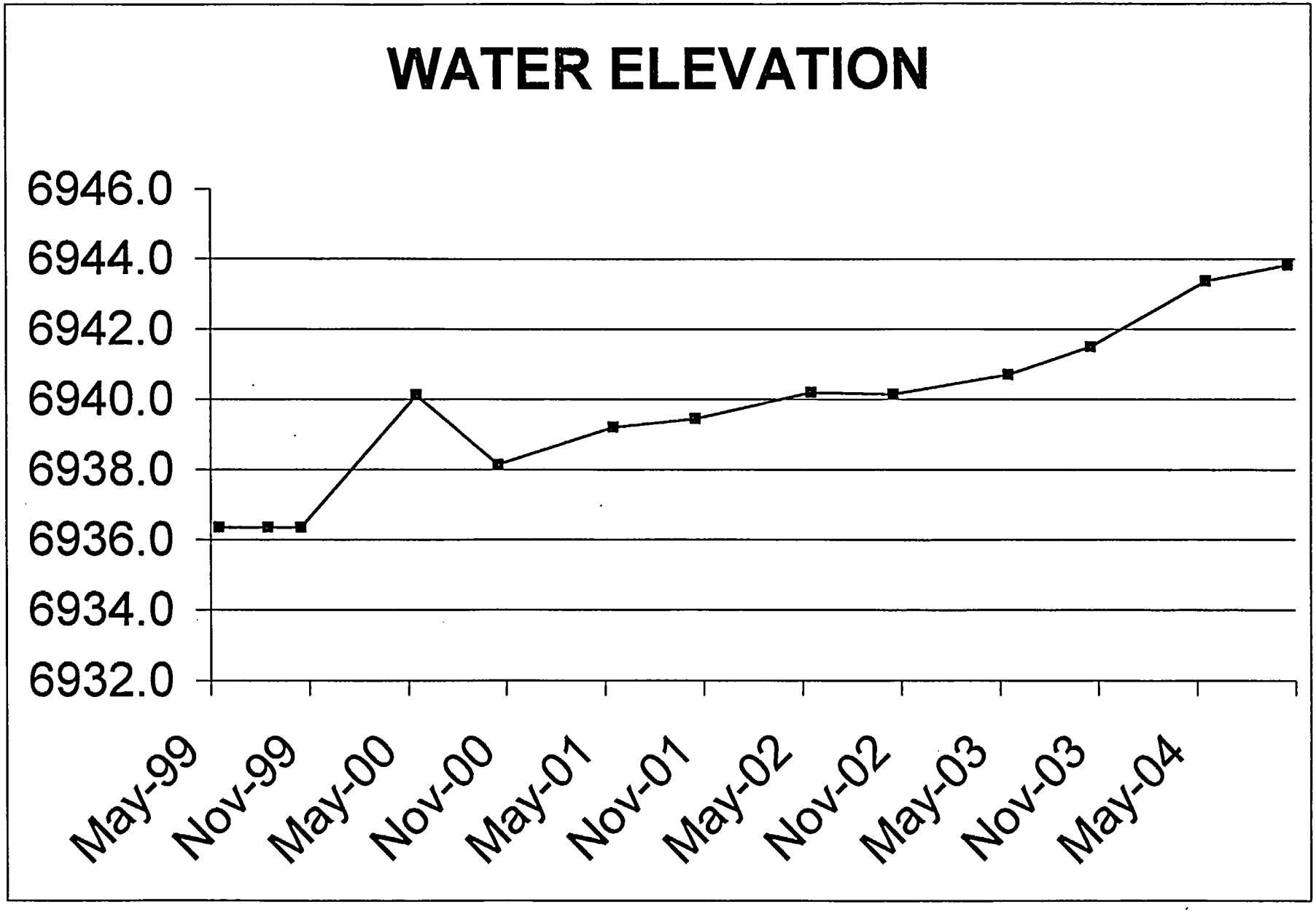
Mine Shop Well

Mine Shop Well		
DATE	ELEV.	
18-May-99	6936.4	MP=7161.4
24-Aug-99	6936.4	
27-Oct-99	6936.4	
16-May-00	6940.1	
19-Oct-00	6938.2	MP=7171.1
22-May-01	6939.2	
1-Oct-01	6939.4	
15-May-02	6940.2	
16-Oct-02	6940.1	
28-May-03	6940.7	
8-Oct-03	6941.5	
5-May-04	6943.4	
12-Oct-04	6943.8	

This well had a pump installed in it and the water level could not be determined until May 1999.



Mine Shop Well



2nd QUARTER 2004

Laboratory Reports

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-001
Client Sample ID: Well 54 SC

Report Date: 06/09/04
Collection Date: 05/05/04 09:31
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	261	mg/L		1.0		A4500-Cl B	05/07/04 15:34 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:33 / jal
Sulfate	6880	mg/L	D	150		A4500-SO4 E	05/14/04 15:10 / dd
PHYSICAL PROPERTIES							
pH	3.37	s.u.		0.01		A4500-H B	05/07/04 13:43 / dd
Solids, Total Dissolved TDS @ 180 C	11500	mg/L		10		A2540 C	05/07/04 16:07 / js
METALS - DISSOLVED							
Cadmium	0.004	mg/L	D	0.002		E200.8	06/05/04 02:33 / bws
Chromium	0.358	mg/L	D	0.005		E200.8	06/05/04 02:33 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 02:33 / bws
Nickel	2.85	mg/L	D	0.005		E200.8	06/05/04 02:33 / bws
Selenium	ND	mg/L	D	0.01		E200.8	06/05/04 02:33 / bws
Uranium	0.128	mg/L	D	0.002		E200.8	06/05/04 02:33 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	9.1	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	1.0	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	41.5	pCi/L		1.0		E904.0	05/18/04 12:12 / pj
Radium 228 precision (±)	2.1	pCi/L				E904.0	05/18/04 12:12 / pj
Thorium 230	30.9	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	3.7	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-002
Client Sample ID: Well 51 SC

Report Date: 06/09/04
Collection Date: 05/05/04 10:32
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	304	mg/L		1.0		A4500-Cl B	05/07/04 15:35 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:35 / jal
Sulfate	11500	mg/L	D	150		A4500-SO4 E	05/14/04 15:11 / dd
PHYSICAL PROPERTIES							
pH	3.30	s.u.		0.01		A4500-H B	05/07/04 13:45 / dd
Solids, Total Dissolved TDS @ 180 C	17600	mg/L		10		A2540 C	05/07/04 16:07 / js
METALS - DISSOLVED							
Cadmium	0.002	mg/L		0.001		E200.8	06/05/04 03:29 / bws
Chromium	0.418	mg/L		0.001		E200.8	06/05/04 03:29 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 03:29 / bws
Nickel	2.73	mg/L	D	0.002		E200.8	06/05/04 03:29 / bws
Selenium	0.048	mg/L	D	0.006		E200.8	06/05/04 03:29 / bws
Uranium	0.015	mg/L		0.001		E200.8	06/05/04 03:29 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	2.0	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	0.5	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 12:12 / pj
Thorium 230	2.6	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	1.4	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-003
Client Sample ID: Mine Shop Well

Report Date: 06/09/04
Collection Date: 05/05/04 11:46
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	2.8	mg/L		1.0		A4500-Cl B	05/07/04 15:36 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:38 / jal
Sulfate	239	mg/L	D	5.9		A4500-SO4 E	05/14/04 15:13 / dd
PHYSICAL PROPERTIES							
pH	8.34	s.u.		0.01		A4500-H B	05/07/04 13:47 / dd
Solids, Total Dissolved TDS @ 180 C	517	mg/L		10		A2540 C	05/07/04 16:07 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 03:36 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 03:36 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 03:36 / bws
Nickel	0.012	mg/L		0.001		E200.8	06/05/04 03:36 / bws
Selenium	ND	mg/L		0.001		E200.8	06/05/04 03:36 / bws
Uranium	ND	mg/L		0.001		E200.8	06/05/04 03:36 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 12:12 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-004
Client Sample ID: Well 40 SC

Report Date: 06/09/04
Collection Date: 05/05/04 13:20
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	160	mg/L		1.0		A4500-Cl B	05/07/04 15:38 / jl
Nitrogen, Nitrate+Nitrite as N	0.73	mg/L		0.10		E353.2	05/10/04 11:40 / jal
Sulfate	1860	mg/L	D	30		A4500-SO4 E	05/14/04 15:14 / dd
PHYSICAL PROPERTIES							
pH	6.61	s.u.		0.01		A4500-H B	05/07/04 13:50 / dd
Solids, Total Dissolved TDS @ 180 C	3120	mg/L		10		A2540 C	05/07/04 16:08 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 03:43 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 03:43 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 03:43 / bws
Nickel	0.026	mg/L		0.001		E200.8	06/05/04 03:43 / bws
Selenium	0.009	mg/L	D	0.003		E200.8	06/05/04 03:43 / bws
Uranium	ND	mg/L		0.001		E200.8	06/05/04 03:43 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	0.4	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 12:12 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-005
Client Sample ID: Well 5 SC

Report Date: 06/09/04
Collection Date: 05/05/04 14:54
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	254	mg/L		1.0		A4500-Cl B	05/07/04 15:39 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:43 / jal
Sulfate	12900	mg/L	D	150		A4500-SO4 E	05/14/04 15:16 / dd
PHYSICAL PROPERTIES							
pH	3.28	s.u.		0.01		A4500-H B	05/07/04 13:51 / dd
Solids, Total Dissolved TDS @ 180 C	19400	mg/L		10		A2540 C	05/07/04 16:08 / js
METALS - DISSOLVED							
Cadmium	0.045	mg/L		0.001		E200.8	06/05/04 03:50 / bws
Chromium	0.422	mg/L		0.001		E200.8	06/05/04 03:50 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 03:50 / bws
Nickel	2.97	mg/L	D	0.002		E200.8	06/05/04 03:50 / bws
Selenium	0.055	mg/L	D	0.006		E200.8	06/05/04 03:50 / bws
Uranium	5.19	mg/L		0.001		E200.8	06/05/04 03:50 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	9.2	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	1.0	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 12:12 / pj
Thorium 230	603	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	15.4	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-006
Client Sample ID: Well 19 DC

Report Date: 06/09/04
Collection Date: 05/05/04 15:25
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	58.4	mg/L		1.0		A4500-Cl B	05/07/04 15:40 / jl
Nitrogen, Nitrate+Nitrite as N	0.66	mg/L		0.10		E353.2	05/10/04 11:48 / jal
Sulfate	1590	mg/L	D	30		A4500-SO4 E	05/14/04 15:17 / dd
PHYSICAL PROPERTIES							
pH	6.36	s.u.		0.01		A4500-H B	05/07/04 13:53 / dd
Solids, Total Dissolved TDS @ 180 C	2610	mg/L		10		A2540 C	05/07/04 16:08 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 03:57 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 03:57 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 03:57 / bws
Nickel	0.124	mg/L		0.001		E200.8	06/05/04 03:57 / bws
Selenium	ND	mg/L		0.001		E200.8	06/05/04 03:57 / bws
Uranium	0.002	mg/L		0.001		E200.8	06/05/04 03:57 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	7.4	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	0.9	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	4.8	pCi/L		1.0		E904.0	05/18/04 13:15 / pj
Radium 228 precision (±)	1.2	pCi/L				E904.0	05/18/04 13:15 / pj
Thorium 230	0.9	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	0.8	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-007
Client Sample ID: Well 5 DC

Report Date: 06/09/04
Collection Date: 05/05/04 15:00
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	93.8	mg/L		1.0		A4500-Cl B	05/07/04 15:42 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:50 / jal
Sulfate	4630	mg/L	D	59		A4500-SO4 E	05/14/04 15:19 / dd
PHYSICAL PROPERTIES							
pH	3.80	s.u.		0.01		A4500-H B	05/07/04 13:55 / dd
Solids, Total Dissolved TDS @ 180 C	6910	mg/L		10		A2540 C	05/07/04 16:09 / js
METALS - DISSOLVED							
Cadmium	0.017	mg/L		0.001		E200.8	06/05/04 04:04 / bws
Chromium	0.038	mg/L	D	0.002		E200.8	06/05/04 04:04 / bws
Lead	0.003	mg/L		0.001		E200.8	06/05/04 04:04 / bws
Nickel	1.02	mg/L	D	0.002		E200.8	06/05/04 04:04 / bws
Selenium	ND	mg/L	D	0.006		E200.8	06/05/04 04:04 / bws
Uranium	0.041	mg/L		0.001		E200.8	06/05/04 04:04 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	6.7	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	0.9	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	8.2	pCi/L		1.0		E904.0	05/18/04 13:15 / pj
Radium 228 precision (±)	1.3	pCi/L				E904.0	05/18/04 13:15 / pj
Thorium 230	0.7	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	0.7	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-008
Client Sample ID: Well 10 DC

Report Date: 06/09/04
Collection Date: 05/05/04 18:11
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	57.5	mg/L		1.0		A4500-Cl B	05/07/04 15:45 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:53 / jal
Sulfate	2790	mg/L	D	30		A4500-SO4 E	05/14/04 15:20 / dd
PHYSICAL PROPERTIES							
pH	6.74	s.u.		0.01		A4500-H B	05/07/04 13:57 / dd
Solids, Total Dissolved TDS @ 180 C	1760	mg/L		10		A2540 C	05/07/04 16:11 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 04:46 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 04:46 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 04:46 / bws
Nickel	0.007	mg/L		0.001		E200.8	06/05/04 04:46 / bws
Selenium	ND	mg/L		0.001		E200.8	06/05/04 04:46 / bws
Uranium	0.014	mg/L		0.001		E200.8	06/05/04 04:46 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	17.6	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	1.4	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	4.8	pCi/L		1.0		E904.0	05/18/04 13:15 / pj
Radium 228 precision (±)	1.2	pCi/L				E904.0	05/18/04 13:15 / pj
Thorium 230	0.7	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	0.7	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-009
Client Sample ID: Well 40 SC Duplicate

Report Date: 06/09/04
Collection Date: 05/05/04 13:20
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	160	mg/L		1.0		A4500-Cl B	05/07/04 15:51 / jl
Nitrogen, Nitrate+Nitrite as N	0.75	mg/L		0.10		E353.2	05/10/04 11:55 / jal
Sulfate	1890	mg/L	D	30		A4500-SO4 E	05/14/04 15:21 / dd
PHYSICAL PROPERTIES							
pH	6.64	s.u.		0.01		A4500-H B	05/07/04 13:59 / dd
Solids, Total Dissolved TDS @ 180 C	3100	mg/L		10		A2540 C	05/07/04 16:12 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 04:53 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 04:53 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 04:53 / bws
Nickel	0.025	mg/L		0.001		E200.8	06/05/04 04:53 / bws
Selenium	0.010	mg/L	D	0.003		E200.8	06/05/04 04:53 / bws
Uranium	ND	mg/L		0.001		E200.8	06/05/04 04:53 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	0.4	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 13:15 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics Company
Project: Mill/Tailings Reclamation
Lab ID: C04050227-010
Client Sample ID: ER-1

Report Date: 06/09/04
Collection Date: 05/05/04
Date Received: 05/06/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1.0		A4500-Cl B	05/07/04 15:52 / jl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	05/10/04 11:58 / jal
Sulfate	5.2	mg/L		1.0		A4500-SO4 E	05/14/04 15:22 / dd
PHYSICAL PROPERTIES							
pH	9.78	s.u.		0.01		A4500-H B	05/07/04 14:00 / dd
Solids, Total Dissolved TDS @ 180 C	114	mg/L		10		A2540 C	05/07/04 16:12 / js
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
Chromium	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
Lead	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
Nickel	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
Selenium	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
Uranium	ND	mg/L		0.001		E200.8	06/05/04 05:00 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		0.2		E903.0	05/11/04 15:00 / df
Radium 228	ND	pCi/L		1.0		E904.0	05/18/04 13:15 / pj
Thorium 230	0.8	pCi/L		0.2		E907.0	05/14/04 10:30 / ph
Thorium 230 precision (±)	0.8	pCi/L				E907.0	05/14/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: Petrotomics

Project Name, PWS #, Permit #, Etc.: Mill/Tailings Reclamation

Report Mail Address: 5020 E 16th St, Casper WY 82609

Contact Name, Phone, Fax, E-mail: Steve Pfaff 307-234-9874

Sampler Name if other than Contact: Tom Michel Hydro-Engineering

Invoice Address: Same

Invoice Contact & Phone #: Same

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

Special Report Formats - ELI must be notified prior to sample submittal for the following:

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

ANALYSIS REQUESTED

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 13 °C

Cooler ID(s) 174 547

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	Cl, NO3, SO4, TDS	pH, Cd, Cr, Pb, Ni	Se, U, Ra226, Ra228, Th230	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	Well 54SC	5/5/04	9:31	W-5	↓	↓	↓					
2	Well 51SC	5/5/04	10:32	W-5								
3	Mine Shop Well	5/5/04	11:46	W-5								
4	Well 40SC	5/5/04	13:20	W-5								
5	Well 5SC	5/5/04	14:54	W-5								
6	Well 19DC	5/5/04	15:25	W-5								
7	Well 5DC	5/5/04	15:00	W-5								
8	Well 10DC	5/5/04	18:11	W-5								
9	Well 40SC Duplicate	5/5/04	13:20	W-5								
10	ER-1	5/5/04		W-4	↓	↓	↓					

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by:	Date/Time:	Shipped by:	Received by:	Date/Time:
Tom Michel	5/6/04 11:30	Road	Shaun Fenn	5/6/04 11:30

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

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Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: Petrotomics Company

Date and Time Received: 5/6/2004 11:30:00

Work Order Number C04050227

Received by: sp

Checklist completed by: _____ Signature | Date

Reviewed by _____ Initials | Date

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	13 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

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ANALYTICAL SUMMARY REPORT

June 09, 2004

Steve Pfaff
Petrotomics Company
5020 E 16th St
Casper, WY 82609

Workorder No.: C04050227

Project Name: Mill/Tailings Reclamation

Energy Laboratories Inc. received the following 10 samples from Petrotomics Company on 5/6/2004 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C04050227-001	Well 54 SC	05/05/04 9:31	05/06/04	Aqueous	Chloride Metals by ICP-MS, Dissolved Nitrogen, Nitrate + Nitrite pH Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved Sulfate
C04050227-002	Well 51 SC	05/05/04 10:32	05/06/04	Aqueous	Same As Above
C04050227-003	Mine Shop Well	05/05/04 11:46	05/06/04	Aqueous	Same As Above
C04050227-004	Well 40 SC	05/05/04 13:20	05/06/04	Aqueous	Same As Above
C04050227-005	Well 5 SC	05/05/04 14:54	05/06/04	Aqueous	Same As Above
C04050227-006	Well 19 DC	05/05/04 15:25	05/06/04	Aqueous	Same As Above
C04050227-007	Well 5 DC	05/05/04 15:00	05/06/04	Aqueous	Same As Above
C04050227-008	Well 10 DC	05/05/04 18:11	05/06/04	Aqueous	Same As Above
C04050227-009	Well 40 SC Duplicate	05/05/04 13:20	05/06/04	Aqueous	Same As Above
C04050227-010	ER-1	05/05/04 0:00	05/06/04	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

If you have any questions regarding these tests results, please call.

Report Approved By:

ROGER GARLING
LABORATORY SUPERVISOR

Date: *09-Jun-04*

CLIENT: Petrotomics Company
Project: Mill/Tailings Reclamation
Sample Delivery Group: C04050227

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-cs - Energy Laboratories, Inc. - College Station, TX
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package. A copy of the submittal(s) has been included and tracked in the data package.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol. NELAC Certification Number E87641.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the page number located in the lower right corner.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: Petrotomics	Project Name, PWS #, Permit #, Etc.: Mill/Tailings Reclamation
Report Mail Address: 5020 E 16th St. Casper WY 82609	Contact Name, Phone, Fax, E-mail: Steve Pfaff 307-234-9874
	Sampler Name if other than Contact: Tom Michel Hydro-Engineering
Invoice Address: Same	Invoice Contact & Phone #: Same
	Purchase Order #:
	ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

Special Report Formats - ELI must be notified prior to sample submittal for the following:

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Comments:

Receipt Temp 13 °C

Cooler ID(s) 176, 587

Custody Seal Y (N)

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	Cl, NO3, SO4, TDS	pH, Cd, Cr, Pb, Ni	Se, U, Ra226, Ra228, Th230	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Lab ID (LABORATORY USE ONLY)
1	Well 54SC	5/5/04	9:31	W-5	↓	↓	↓	↓			0405020
2	Well 51SC	5/5/04	10:32	W-5	↓	↓	↓	↓			
3	Mine Shop Well	5/5/04	11:46	W-5	↓	↓	↓	↓			
4	Well 40SC	5/5/04	13:20	W-5	↓	↓	↓	↓			
5	Well 5SC	5/5/04	14:54	W-5	↓	↓	↓	↓			
6	Well 19DC	5/5/04	15:25	W-5	↓	↓	↓	↓			
7	Well 5DC	5/5/04	15:00	W-5	↓	↓	↓	↓			
8	Well 10DC	5/5/04	18:11	W-5	↓	↓	↓	↓			
9	Well 40SC Duplicate	5/5/04	13:20	W-5	↓	↓	↓	↓			
10	ER-1	5/5/04		W-4	↓	↓	↓	↓			

LABORATORY USE ONLY

Custody Record MUST be Signed				
Relinquished by: Tom Michel	Date/Time: 5/6/04 11:30	Shipped by: Road	Received by: Susan Ferrell	Date/Time: 5/6/04 11:30
Relinquished by:	Date/Time:	Shipped by:	Received by:	Date/Time:

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at *www.energylab.com* for additional information, downloadable fee schedule, forms, & links.

4th QUARTER 2004

Laboratory Reports

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ANALYTICAL SUMMARY REPORT

November 22, 2004

Steve Pfaff
Petrotomics
PO Box 8509
Shirley Basin, WY 82615

Workorder No.: C04100728

Project Name: Mill/Tailings Reclamation

Energy Laboratories Inc. received the following 10 samples from Petrotomics on 10/15/2004 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C04100728-001	Well 54SC	10/12/04 09:36	10/15/04	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Nitrogen, Nitrate + Nitrite pH Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved
C04100728-002	Mine Shop Well	10/12/04 11:18	10/15/04	Aqueous	Same As Above
C04100728-003	Well 51SC	10/12/04 13:05	10/15/04	Aqueous	Same As Above
C04100728-004	Well 5DC	10/14/04 09:02	10/15/04	Aqueous	Same As Above
C04100728-005	Well 5DC Duplicate	10/14/04 11:12	10/15/04	Aqueous	Same As Above
C04100728-006	Well 5SC	10/14/04 10:15	10/15/04	Aqueous	Same As Above
C04100728-007	Well 40SC	10/14/04 11:15	10/15/04	Aqueous	Same As Above
C04100728-008	Well 19DC	10/14/04 13:00	10/15/04	Aqueous	Same As Above
C04100728-009	Well 10DC	10/14/04 14:52	10/15/04	Aqueous	Same As Above
C04100728-010	ER-1	10/14/04 19:20	10/15/04	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

If you have any questions regarding these tests results, please call.

Report Approved By:

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-001
Client Sample ID: Well 54SC

Report Date: 11/22/04
Collection Date: 10/12/04 09:36
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	30	mg/L		1.0		E200.7	11/02/04 14:35 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:45 / jal
Sulfate	6900	mg/L	D	8.0		E200.7	11/02/04 14:38 / ts
PHYSICAL PROPERTIES							
Conductivity	9410	umhos/cm		1.0		A2510 B	10/18/04 15:22 / dd
pH	3.01	s.u.		0.01		A4500-H B	10/18/04 17:49 / dd
Solids, Total Dissolved TDS @ 180 C	11800	mg/L		10		A2540 C	10/18/04 13:53 / dd
METALS - DISSOLVED							
Cadmium	0.02	mg/L		0.01		E200.8	11/11/04 19:39 / bws
Chromium	0.51	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Nickel	2.88	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Selenium	0.021	mg/L	D	0.004		E200.8	11/11/04 19:39 / bws
Uranium	0.0995	mg/L	D	0.0004		E200.8	11/11/04 19:39 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	11.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	1.3	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	38.5	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	2.7	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	10.5	pCi/L		0.2		E907.0	10/28/04 10:30 / ph
Thorium 230 precision (±)	3.4	pCi/L				E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-002
Client Sample ID: Mine Shop Well

Report Date: 11/22/04
Collection Date: 10/12/04 11:18
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	4.7	mg/L		1.0		E200.7	11/02/04 14:41 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:47 / jal
Sulfate	230	mg/L		1.0		E200.7	11/02/04 14:41 / ts
PHYSICAL PROPERTIES							
Conductivity	897	umhos/cm		1.0		A2510 B	10/18/04 15:25 / dd
pH	8.38	s.u.		0.01		A4500-H B	10/18/04 17:50 / dd
Solids, Total Dissolved TDS @ 180 C	492	mg/L		10		A2540 C	10/18/04 13:53 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 20:22 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 20:22 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 20:22 / bws
Nickel	ND	mg/L		0.05		E200.8	11/17/04 16:19 / bws
Selenium	ND	mg/L	D	0.004		E200.8	11/11/04 20:22 / bws
Uranium	ND	mg/L		0.0003		E200.8	11/17/04 16:19 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	0.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.2	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	ND	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-003
Client Sample ID: Well 51SC

Report Date: 11/22/04
Collection Date: 10/12/04 13:05
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	320	mg/L		1.0		E200.7	11/02/04 14:44 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:50 / jal
Sulfate	11000	mg/L	D	8.0		E200.7	11/02/04 14:47 / ts
PHYSICAL PROPERTIES							
Conductivity	12400	umhos/cm		1.0		A2510 B	10/18/04 15:26 / dd
pH	3.10	s.u.		0.01		A4500-H B	10/18/04 17:51 / dd
Solids, Total Dissolved TDS @ 180 C	17700	mg/L		10		A2540 C	10/18/04 13:54 / dd
METALS - DISSOLVED							
Cadmium	0.03	mg/L		0.01		E200.8	11/11/04 20:29 / bws
Chromium	0.42	mg/L		0.05		E200.8	11/11/04 20:29 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 20:29 / bws
Nickel	2.42	mg/L		0.05		E200.8	11/17/04 17:16 / bws
Selenium	0.04	mg/L	D	0.01		E200.8	11/11/04 20:29 / bws
Uranium	0.0145	mg/L	D	0.0004		E200.8	11/17/04 17:16 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	1.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.4	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	ND	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
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D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-004
Client Sample ID: Well 5DC

Report Date: 11/22/04
Collection Date: 10/14/04 09:02
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	100	mg/L		1.0		E200.7	11/02/04 14:50 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:52 / jal
Sulfate	3800	mg/L	D	8.0		E200.7	11/02/04 14:53 / ts
PHYSICAL PROPERTIES							
Conductivity	6110	umhos/cm		1.0		A2510 B	10/18/04 15:27 / dd
pH	4.04	s.u.		0.01		A4500-H B	10/18/04 17:52 / dd
Solids, Total Dissolved TDS @ 180 C	6620	mg/L		10		A2540 C	10/18/04 13:55 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 20:37 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 20:37 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 20:37 / bws
Nickel	0.71	mg/L		0.05		E200.8	11/17/04 17:23 / bws
Selenium	0.008	mg/L	D	0.002		E200.8	11/11/04 20:37 / bws
Uranium	0.0668	mg/L		0.0003		E200.8	11/17/04 17:23 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	6.1	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.7	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	14.2	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	1.4	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	0.5	pCi/L		0.2		E907.0	10/28/04 10:30 / ph
Thorium 230 precision (±)	0.5	pCi/L				E907.0	10/28/04 10:30 / ph

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-005
Client Sample ID: Well 5DC Duplicate

Report Date: 11/22/04
Collection Date: 10/14/04 11:12
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	100	mg/L		1.0		E200.7	11/02/04 14:57 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:55 / jal
Sulfate	4000	mg/L	D	8.0		E200.7	11/02/04 15:08 / ts
PHYSICAL PROPERTIES							
Conductivity	6120	umhos/cm		1.0		A2510 B	10/18/04 15:28 / dd
pH	4.07	s.u.		0.01		A4500-H B	10/18/04 17:52 / dd
Solids, Total Dissolved TDS @ 180 C	6720	mg/L		10		A2540 C	10/18/04 13:56 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 20:44 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 20:44 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 20:44 / bws
Nickel	0.70	mg/L		0.05		E200.8	11/17/04 17:30 / bws
Selenium	0.007	mg/L	D	0.002		E200.8	11/11/04 20:44 / bws
Uranium	0.0650	mg/L		0.0003		E200.8	11/17/04 17:30 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	7.4	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	1.0	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	14.9	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	2.1	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-006
Client Sample ID: Well 5SC

Report Date: 11/22/04
Collection Date: 10/14/04 10:15
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	270	mg/L		1.0		E200.7	11/02/04 15:12 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 13:05 / jal
Sulfate	12000	mg/L	D	8.0		E200.7	11/02/04 15:15 / ts
PHYSICAL PROPERTIES							
Conductivity	13300	umhos/cm		1.0		A2510 B	10/18/04 15:29 / dd
pH	3.20	s.u.		0.01		A4500-H B	10/18/04 17:54 / dd
Solids, Total Dissolved TDS @ 180 C	19500	mg/L		10		A2540 C	10/18/04 13:56 / dd
METALS - DISSOLVED							
Cadmium	0.06	mg/L		0.01		E200.8	11/11/04 20:58 / bws
Chromium	0.40	mg/L		0.05		E200.8	11/11/04 20:58 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 20:58 / bws
Nickel	3.06	mg/L		0.05		E200.8	11/17/04 17:38 / bws
Selenium	0.07	mg/L	D	0.01		E200.8	11/11/04 20:58 / bws
Uranium	4.77	mg/L	D	0.0004		E200.8	11/17/04 17:38 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	3.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.5	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	ND	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Thorium 230	129	pCi/L		0.2		E907.0	10/28/04 10:30 / ph
Thorium 230 precision (±)	7.3	pCi/L				E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-007
Client Sample ID: Well 40SC

Report Date: 11/22/04
Collection Date: 10/14/04 11:15
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	160	mg/L		1.0		E200.7	11/02/04 15:18 / ts
Nitrogen, Nitrate+Nitrite as N	0.54	mg/L		0.10		E353.2	10/18/04 13:07 / jal
Sulfate	2000	mg/L	D	8.0		E200.7	11/02/04 15:21 / ts
PHYSICAL PROPERTIES							
Conductivity	3960	umhos/cm		1.0		A2510 B	10/18/04 15:31 / dd
pH	6.64	s.u.		0.01		A4500-H B	10/18/04 17:55 / dd
Solids, Total Dissolved TDS @ 180 C	3430	mg/L		10		A2540 C	10/18/04 13:56 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 21:06 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 21:06 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 21:06 / bws
Nickel	ND	mg/L		0.05		E200.8	11/17/04 17:45 / bws
Selenium	0.010	mg/L		0.001		E200.8	11/11/04 21:06 / bws
Uranium	0.0006	mg/L		0.0003		E200.8	11/17/04 17:45 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	0.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.2	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	2.5	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	1.0	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-008
Client Sample ID: Well 19DC

Report Date: 11/22/04
Collection Date: 10/14/04 13:00
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	62	mg/L		1.0		E200.7	11/02/04 15:24 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 13:10 / jal
Sulfate	1400	mg/L		1.0		E200.7	11/02/04 15:24 / ts
PHYSICAL PROPERTIES							
Conductivity	2870	umhos/cm		1.0		A2510 B	10/18/04 15:32 / dd
pH	6.24	s.u.		0.01		A4500-H B	10/18/04 17:56 / dd
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		10		A2540 C	10/18/04 13:57 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 21:13 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 21:13 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 21:13 / bws
Nickel	0.13	mg/L		0.05		E200.8	11/18/04 18:48 / bws
Selenium	0.002	mg/L		0.001		E200.8	11/11/04 21:13 / bws
Uranium	0.0022	mg/L		0.0003		E200.8	11/18/04 18:48 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	7.9	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.8	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	4.9	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	1.1	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-009
Client Sample ID: Well 10DC

Report Date: 11/22/04
Collection Date: 10/14/04 14:52
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	60	mg/L		1.0		E200.7	11/02/04 15:30 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 13:12 / jal
Sulfate	960	mg/L		1.0		E200.7	11/02/04 15:30 / ts
PHYSICAL PROPERTIES							
Conductivity	2250	umhos/cm		1.0		A2510 B	10/18/04 15:33 / dd
pH	6.88	s.u.		0.01		A4500-H B	10/18/04 17:57 / dd
Solids, Total Dissolved TDS @ 180 C	1730	mg/L		10		A2540 C	10/18/04 13:57 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 21:56 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 21:56 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 21:56 / bws
Nickel	ND	mg/L		0.05		E200.8	11/18/04 18:56 / bws
Selenium	0.001	mg/L		0.001		E200.8	11/11/04 21:56 / bws
Uranium	0.0116	mg/L		0.0003		E200.8	11/18/04 18:56 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	16.1	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	1.2	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	ND	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-010
Client Sample ID: ER-1

Report Date: 11/22/04
Collection Date: 10/14/04 19:20
Date Received: 10/15/04
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	1.9	mg/L		1.0		E200.7	11/02/04 15:36 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 13:25 / jal
Sulfate	3.1	mg/L		1.0		E200.7	11/02/04 15:36 / ts
PHYSICAL PROPERTIES							
Conductivity	174	umhos/cm		1.0		A2510 B	10/18/04 15:40 / dd
pH	9.68	s.u.		0.01		A4500-H B	10/18/04 18:00 / dd
Solids, Total Dissolved TDS @ 180 C	77	mg/L		10		A2540 C	10/18/04 13:57 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	11/11/04 22:03 / bws
Chromium	ND	mg/L		0.05		E200.8	11/11/04 22:03 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 22:03 / bws
Nickel	ND	mg/L		0.05		E200.8	11/18/04 19:03 / bws
Selenium	ND	mg/L		0.001		E200.8	11/11/04 22:03 / bws
Uranium	ND	mg/L		0.0003		E200.8	11/18/04 19:03 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	0.5	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	0.3	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	ND	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: Petrotomics

Project Name, PWS #, Permit #, Etc.: Mill/Tailings Reclamation

Report Mail Address: Steve Pfaff, 4711 E 15th St., Casper WY 82609

Contact Name, Phone, Fax, E-mail: Steve Pfaff, 307-234-9874

Sampler Name if other than Contact: Tom Michel, Hydro-Engineering

Invoice Address: Same

Invoice Contact & Phone #: Same

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other ____

Special Report Formats - ELI must be notified prior to sample submittal for the following:

NELAC ☐ A2LA ☐ Level IV ☐

Other ____

EDD/EDT ☐ Format ____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Shipped by: Hand

Cooler ID(s)

Receipt Temp 7.1°C

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

Comments:

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	Cl, NO3, SO4, TDS	pH, Cd, Cu, Pb, Ni	Se, U, Ra226	Ra228, Th230							SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments	LABORATORY USE ONLY
1	Well 54SC	10/12/04	9:36	W-4	✓	✓	✓	✓											
2	Mine Shop Well	10/12/04	11:18	W-4															
3	Well 51SC	10/12/04	13:05	W-4															
4	Well 50C	10/14/04	9:02	W-4															
5	Well 50C Duplicate	10/14/04	9:02	W-4															
6	Well 55C	10/14/04	10:15	W-4															
7	Well 40SC	10/14/04	11:15	W-4															
8	Well 19DC	10/14/04	13:00	W-4															
9	Well 10DC	10/14/04	14:52	W-4															
10	ER-1	10/14/04	19:20	W-4															

Custody Record MUST be Signed

Relinquished by (print): Tom Michel Date/Time: 10/15/04 15:05 Signature: Tom Michel

Received by (print): Connie Wagner Date/Time: 10/15/04 15:05 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Sample Disposal: Return to client: ____ Lab Disposal: ____

LABORATORY USE ONLY

Sample Type: ____ # of fractions ____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

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Energy Laboratories Inc.

Sample Receipt Checklist

Client Name Petrotomics

Date and Time Received: 10/15/2004 15:05:00

Work Order Number C04100728

Received by ckw

Checklist completed by: Signature Date 10-15-04

Reviewed by Initials Date

Carrier name Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	7 °C On Ice
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

Date: *22-Nov-04*

CLIENT: Petrotomics
Project: Mill/Tailings Reclamation
Sample Delivery Group: C04100728

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-cs - Energy Laboratories, Inc. - College Station, TX
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package. A copy of the submittal(s) has been included and tracked in the data package.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol. NELAC Certification Number E87641.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the page number located in the lower right corner.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: Petrotomics

Project Name, PWS #, Permit #, Etc.: Mill/Tailings Reclamation

Report Mail Address: Steve Pfaff, 4711 E 15th St., Casper WY 82609

Contact Name, Phone, Fax, E-mail: Steve Pfaff, 307-234-9874

Sampler Name if other than Contact: Tom Michel, Hydro-Engineering

Invoice Address: Same

Invoice Contact & Phone #: Same

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other ____

Special Report Formats - ELI must be notified prior to sample submittal for the following:

NELAC ☐ A2LA ☐ Level IV ☐

Other ____

EDD/EDT ☐ Format ____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Shipped by: Hand

Cooler ID(s)

Receipt Temp 7.1°C

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

Comments:

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	Cl, NO3, SO4, TDS	pH, Cd, Cr, Pb, Ni	Se, U, Ra226	Ra228, Th230	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Lab ID
1	Well 54SC	10/12/04	9:36	W-4	✓	✓	✓	✓				
2	Mine Shop Well	10/12/04	11:18	W-4	✓	✓	✓	✓				
3	Well 51SC	10/12/04	13:05	W-4	✓	✓	✓	✓				
4	Well 50C	10/14/04	9:02	W-4	✓	✓	✓	✓				
5	Well 50C Duplicate	10/14/04	10:02	W-4	✓	✓	✓	✓				
6	Well 55C	10/14/04	10:15	W-4	✓	✓	✓	✓				
7	Well 40SC	10/14/04	11:15	W-4	✓	✓	✓	✓				
8	Well 19DC	10/14/04	13:00	W-4	✓	✓	✓	✓				
9	Well 10DC	10/14/04	14:52	W-4	✓	✓	✓	✓				
10	ER-1	10/14/04	19:20	W-4	✓	✓	✓	✓				

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tom Michel	10/15/04 15:05	Tom Michel	Connie Wagner	10/15/04 15:05	

Sample Disposal: Return to client: ____ Lab Disposal: ____

LABORATORY USE ONLY

Sample Type: ____ # of fractions ____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

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LABORATORY ANALYTICAL REPORT

Revised Date: 01/18/05
Report Date: 11/22/04
Collection Date: 10/12/04 09:36
Date Received: 10/15/04
Matrix: Aqueous

Client: Petrotomics
Project: Mill/Tailings Reclamation
Lab ID: C04100728-001
Client Sample ID: Well 54SC

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	30	mg/L		1.0		E200.7	11/02/04 14:35 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	10/18/04 12:45 / jal
Sulfate	6900	mg/L	D	8.0		E200.7	11/02/04 14:38 / ts
PHYSICAL PROPERTIES							
Conductivity	9410	umhos/cm		1.0		A2510 B	10/18/04 15:22 / dd
pH	3.01	s.u.		0.01		A4500-H B	10/18/04 17:49 / dd
Solids, Total Dissolved TDS @ 180 C	11800	mg/L		10		A2540 C	10/18/04 13:53 / dd
METALS - DISSOLVED							
Cadmium	ND	mg/L		0.01		E200.8	01/14/05 19:46 / bws
Chromium	0.51	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Lead	ND	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Nickel	2.88	mg/L		0.05		E200.8	11/11/04 19:39 / bws
Selenium	0.021	mg/L	D	0.004		E200.8	11/11/04 19:39 / bws
Uranium	0.0995	mg/L	D	0.0004		E200.8	11/11/04 19:39 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	11.3	pCi/L		0.2		E903.0	10/21/04 14:40 / df
Radium 226 precision (±)	1.3	pCi/L				E903.0	10/21/04 14:40 / df
Radium 228	38.5	pCi/L		1.0		E904.0	10/22/04 13:00 / pj
Radium 228 precision (±)	2.7	pCi/L				E904.0	10/22/04 13:00 / pj
Thorium 230	10.5	pCi/L		0.2		E907.0	10/28/04 10:30 / ph
Thorium 230 precision (±)	3.4	pCi/L				E907.0	10/28/04 10:30 / ph

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Date: *18-Jan-05*

CLIENT: Petrotomics
Project: Mill/Tailings Reclamation
Sample Delivery Group: C04100728

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

REVISED REPORT
The attached analytical report has been revised from a previously submitted report due to revised information. Recheck Cd on sample 001 per client request 1/11/05.

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eli-cs - Energy Laboratories, Inc. - College Station, TX
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package. A copy of the submittal(s) has been included and tracked in the data package.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol. NELAC Certification Number E87641.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the page number located in the lower right corner.