

2007 ANNUAL REPORT

POST CLOSURE GROUNDWATER MONITORING
PROGRAM

SONIA ROAD LANDFILL
BRENTWOOD, NEW YORK

March 2008

Prepared for:

Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

H2M No. ISLP0701

H2MGROUP

HOLZMACHER, McLENDON & MURRELL, P.C.
175 Pinelawn Road, Suite 308
Melville, New York 11747-5076

Engineers | Architects | Scientists | Planners | Surveyors



March 31, 2008

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services, 12th Floor
625 Broadway
Albany, New York 12233-7013

Attn: Jeffrey E. Trad, P.E.
Environmental Engineer 2

Re: **Sonia Road Landfill**
NYSDEC Site Number 152013
Post Closure Groundwater Monitoring Program
2007 Annual Report

Dear Mr. Trad:

Transmitted herewith for your review and consideration is one copy of the following Post Closure Groundwater Monitoring Program Report for the Sonia Road Landfill:

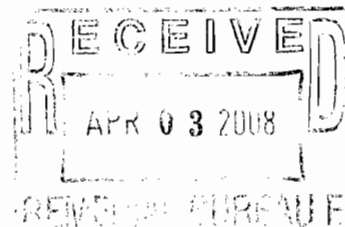
1. 2007 Annual Report

Sincerely,

Anthony J. Varrichio, P.E.
Chief Engineer

encl.

cc: C. Andrade, IRRA President
A. Sanchez, IRRA Vice President Operations w/encl.
K. Wenz, Jr., CPG
E. Lenio - NYSDEC - Stony Brook
File



2007 ANNUAL REPORT

**POST CLOSURE GROUNDWATER MONITORING
PROGRAM**

**SONIA ROAD LANDFILL
BRENTWOOD, NEW YORK**

February 2008

Prepared for:

Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

H2M No. ISLP0701



**2007 ANNUAL REPORT
Sonia Road Landfill
Brentwood, NY**

CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION.....	1
1.1 Purpose.....	1
1.2 Site Location and Description.....	1
2.0 MONITORING WELL NETWORK AND GROUNDWATER SAMPLE LOCATIONS.....	4
3.0 SAMPLING AND ANALYTICAL PROCEDURES.....	4
3.1 Groundwater Level Measurement.....	4
3.2 Groundwater Sampling.....	5
3.3 Organic Vapor and Combustible Gas Monitoring.....	6
3.4 Analytical Parameters.....	6
4.0 ANALYTICAL RESULTS.....	6
4.1 Field Parameters.....	6
4.2 Groundwater Samples.....	7
4.2.1 Leachate Indicators.....	7
4.2.2 Inorganic Parameters.....	10
4.2.3 Volatile Organic Compounds.....	16
4.3 Organic Vapor and Combustible Gas Monitoring.....	17
5.0 DATA VALIDATION.....	17
6.0 GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION.....	18
7.0 CONCLUSIONS AND RECOMMENDATIONS.....	18
7.1 Conclusions.....	18
7.2 Recommendations.....	19

**2007 ANNUAL REPORT
Sonia Road Landfill
Brentwood, NY**

TABLES

<u>No.</u>	<u>Description</u>
1	Summary of Monitoring Well Construction Details
2	Wells Sampled as Part of the Post Closure Groundwater Monitoring Program
3	Summary of Concentration Trends for Leachate Indicator Parameters
4	Summary of Concentration Trends for Inorganic Parameters

FIGURES

<u>No.</u>	<u>Description</u>
1	Site Location Map
2	Groundwater Monitoring Well Locations

APPENDICES

A	Organic Vapor, Combustible Gas and Field Parameter Results
B	Historic Data Tables B-1 Leachate Indicator Parameters B-2 Inorganic Parameters B-3 Volatile Organic Compounds
C	Water Quality Graphs C-1 Leachate Indicator Parameters C-2 Inorganic Parameters C-3 Volatile Organic Compounds
D	Data Validation Reports
E	Groundwater Elevation Contour Maps

1.0 INTRODUCTION

This report presents the results of four quarterly rounds of groundwater monitoring conducted as part of the Post Closure Groundwater Monitoring Program for the Sonia Road Landfill. The four quarterly rounds were conducted in February, May, August and November 2007. The sampling program was conducted for the Town of Islip and administered by the Islip Resource Recovery Agency (IRRA) in conformance with the December 2001 Sampling and Analysis Plan (SAP), which was prepared by others. The Sampling and Analysis Plan is a part of the Sonia Road Post Closure Monitoring and Maintenance Plan (Volume 3 of 4), which was approved the by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated January 18, 2006.

1.1 Purpose

The purpose of the Post Closure Groundwater Monitoring Program is to monitor groundwater quality and flow direction following capping and closure of the Sonia Road Landfill.

This Post Closure Groundwater Monitoring Program report includes discussions of the sample locations, sampling procedures, laboratory analyses, field and analytical results, data validation, groundwater level measurements and groundwater flow direction. In addition, this report includes a comparison of the analytical results to applicable New York State groundwater quality standards and guidance values for the monitoring conducted during calendar year 2007.

1.2 Site Location and Description

The Sonia Road Landfill is a capped and closed inactive municipal solid waste landfill owned by the Town of Islip. The landfill is located at 1355 Howells Road in the hamlet of Brentwood in the western portion of the Town and is in close proximity to the western town boundary with the Town of Babylon. The location of the Sonia Road Landfill is shown on Figure 1.

The landfill property is 42.2 acres in area and is approximately rectangular in shape. The landfill is bounded to the north by industrial properties, to the east by residential properties, to the south by Deer Park Street with residential properties beyond, and to the west by Howell's Road, Secatogue Road and Corbin Avenue with industrial properties beyond. In the southwest corner of the property is one residential parcel (Tax Map No. 221-2-1), which is not part of landfill property described above. At the northwest corner of the property is a 0.5-acre parcel owned by the Town of Islip (Tax Map No. 198-5-7.3), which is identified as a paper street. Given that the waste mass extends onto this parcel, it is considered as part of the landfill property, and as a result, the overall landfill property is considered to be 42.7 acres. At and abutting the northeast corner of the landfill property is the western extension of Sonia Road for which the facility is named.

The landfill property itself is zoned Industrial I and Industrial II with a small portion along the southeastern boundary zoned as residential.

To the southwest of the landfill property is the West Brentwood Middle School, which is located on the west side of Howell's Road. Beyond the school property to the south and west is the headwater of Sampawams Creek. Sampawams Creek is fed by groundwater discharge as well as storm water management systems for the surrounding areas. Sampawams Creek runs from north to south and empties into the Guggenheim Lakes, which are located north of the Southern State Parkway. Sampawams Creek generally describes the western boundary of the Town of Islip and the eastern boundary of the Town of Babylon.

The Sonia Road Landfill site has been owned by the Town of Islip since 1965. Prior to 1965, the site was privately owned and used as a source of mined sand and gravel. As a result of this mining operation, virtually the entire site was disturbed, including the removal of vegetation, topsoil and underlying minerals. The mining operation was extensive with the removal of minerals progressing to and below the water table. Removal of minerals below the water table was accomplished through the use of dredging equipment. This activity resulted in the formation of a groundwater lake over a significant portion of the site (40% to 50%). It is reported that this

dredging operation may have removed materials to a depth of 50 feet below the water table. Soil borings constructed as part of the remedial investigation at the landfill confirmed that waste lies at least 36 feet below the water table.

In 1965, the Town of Islip took title to the Sonia Road property and began a landfilling operation for the disposal of municipal solid waste. Landfilling at the site occurred between 1965 and 1977, with the most active period of landfilling occurring between 1965 and 1974. It has been estimated that between 1.5 and 2.0 million cubic yards of waste were disposed at the site. There are no weight records to substantiate this estimate.

The landfill reportedly accepted all municipal solid waste delivered to the site. This waste is reported to include wood, concrete, metal, plastic, glass, household waste in the form of refuse, rubbish, demolition materials and yard wastes (particularly leaves). It is also reported that junk automobiles were routinely disposed at the facility and that underground fires were common.

The Sonia Road Landfill was capped in the fall of 2000. The landfill capping system covers an area of approximately 40 acres. The capping system includes an active landfill gas management system, an on-site storm water management system and a perimeter road constructed around the entire site using recycled concrete aggregate. The storm water management system consists of a series of drainage swales, catch basins, buried storm water piping, dry wells and two recharge basins. Storm water from the northeastern corner of the property is discharged to a series of dry wells (leaching rings) in the area of Sonia Road. The remainder of the site storm water is directed to Recharge Basins 1 and 2 located on the west side of the property. Recharge Basin 1 is located adjacent to the main entrance gate located on Corbin Avenue, and Recharge Basin 2 is located in the southwest corner of the property. For the majority of the site, drainage swales are located on the in-board side of the perimeter road.

2.0 MONITORING WELL NETWORK AND GROUNDWATER SAMPLE LOCATIONS

The monitoring well network for the Sonia Road Landfill consists of 35 wells. Well locations are shown on Figure 2. The monitoring wells were constructed in 12 well clusters, with each cluster comprising a shallow (S) well, intermediate (I) well and deep (D) well, with the exception of the MW-02 cluster. Shallow well MW-02S was abandoned in August 2005 and was removed from the Post-closure Monitoring Program. All 35 wells were utilized for water level measurements. Well construction information for all wells is summarized in Table 1.

Twenty-two (22) wells are included as part of the Post Closure Monitoring Program. The sampled wells are listed in Table 2.

All twenty-two (22) monitoring wells were sampled during each of the four Post-closure Groundwater Sampling events discussed in this report.

3.0 SAMPLING AND ANALYTICAL PROCEDURES

Sampling procedures for the Sonia Road Landfill site are described in the SAP. Dedicated and disposable sampling equipment was used whenever possible in accordance with the SAP. All non-disposable equipment was decontaminated before first use on-site and between uses in accordance with the procedures described in the SAP. The following sections provide brief discussions of the procedures used during groundwater level measurement activities, organic vapor and combustible gas monitoring, groundwater sampling and sample analysis.

3.1 Groundwater Level Measurement

Prior to collecting the groundwater samples, synoptic water level measurements were obtained from all 35 monitoring wells for determination of groundwater elevations and groundwater flow direction. Groundwater level measurements were obtained from a surveyed measuring point on each well using an electronic water level indicator to an accuracy of

0.01 foot. A discussion of the groundwater level measurement results and groundwater flow direction is provided in Section 6.0.

3.2 Groundwater Sampling

Prior to collection of each groundwater sample, 3 to 5 well volumes were purged from the well. Well purging was accomplished by first measuring the static water level in the well and calculating the standing water volume. A decontaminated submersible pump was used to purge each well.

During the purging process, field parameters (Ph, specific conductance, temperature, oxidation-reduction potential (ORP), dissolved oxygen and turbidity) were monitored and recorded. When the values of the field parameters, except turbidity, equilibrated within 10% based on the last two readings, the turbidity of the groundwater was less than 50 Nephelometric Turbidity Units (NTUs) and at least three well volumes had been removed, well purging was considered complete.

Groundwater samples were collected using new, dedicated, disposable polyethylene bailers and polypropylene rope. Samples were collected immediately after purging. Filled sample bottles were stored in ice-filled coolers with the chain of custody forms and delivered on the day of collection to H2M Laboratories, Inc. for analysis. H2M Laboratories, Inc. is approved by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the analyses performed.

Appropriate quality assurance/quality control (QA/QC) samples, including field blanks, matrix spike and matrix spike duplicate (MS/MSD) sets and blind duplicates, were collected in accordance with the SAP. For the baseline sampling event, trip blanks accompanied all sample shipments.

In accordance with the SAP, purge water from all on-site wells and all wells immediately adjacent to the landfill property was disposed directly into the nearest landfill capping system

drainage swale. Purge water generated from off-site well clusters 11 and 12 was pumped into a tank truck, transported to the landfill and discharged into the landfill's on-site Recharge Basin 1 in accordance with the SAP.

3.3 Organic Vapor and Combustible Gas Monitoring

Total organic vapor and combustible gas measurements were collected in all 35 monitoring wells throughout the reporting period. Organic vapors were measured using a photoionization detector (PID). Combustible gas was measured using a portable multi-gas meter. Gas monitoring results represent headspace measurements collected during the synoptic groundwater level measurements. The organic vapor and combustible gas monitoring results for each of the quarterly monitoring periods are provided in Appendix A.

3.4 Analytical Parameters

Groundwater samples collected during the first quarter (February 2007) were analyzed for 6 NYCRR Part 360 Baseline Parameters. Groundwater samples collected during the second quarter (May 2007), third quarter (August 2007) and fourth quarter (November 2007) sampling events were analyzed for NYCRR Part 360 Routine Parameters. Samples for both routine and baseline parameters were analyzed in accordance with SW-846 methods as specified in the NYCRR Part 360 regulations. The analytical results are discussed in Section 4.2.

4.0 ANALYTICAL RESULTS

4.1 Field Parameters

A summary of the final field parameter values measured at the time of sample collection and additional field data collected during the four quarters discussed in this report is included in Appendix A. As described in Section 3.2, field parameters monitored during the purging of the monitoring wells included pH, specific conductance, temperature, ORP, dissolved oxygen and turbidity.

4.2 Groundwater Samples

The four quarters of analytical results for the groundwater samples, compared to NYSDEC Class GA groundwater standards and guidance values, are provided in Appendix B-1 (leachate indicator parameters), Appendix B-2 (inorganic parameters) and Appendix B-3 (volatile organic compounds).

4.2.1 Leachate Indicators

The following discussion presents the concentration trends of the leachate indicators in the 22 wells sampled during the four quarterly events in 2007. In addition, where applicable, the individual leachate indicators that were detected at concentrations exceeding NYSDEC groundwater standards and guidance values are discussed. A summary of concentration trends and exceedances of groundwater standards and guidance values for each sampled well is presented in Table 3. Tabulated analytical results for leachate indicator parameters are provided in Appendix B-1. Graphs illustrating concentration trends for each well are presented in Appendix C.

Alkalinity

Six (6) wells (MW-02I, MW-04S, MW-04I, MW-06I, MW-11S and MW-12D) showed an increasing trend in alkalinity concentrations. Eight (8) wells (MW-01S, MW-01I, MW-01D, MW-02D, MW-05S, MW-05I, MW-11I and MW-12I) showed a decreasing trend. The remaining 8 wells were consistent. The term “consistent” is defined as either a stable trend or no discernable trend.

Ammonia

Two (2) wells (MW-01D and MW-07I) showed an increasing trend in ammonia concentrations. One (1) well (MW-04S) showed a decreasing trend. The remaining 19 wells were consistent.

The groundwater standard for ammonia (2 milligrams per liter [mg/l]) was exceeded on one or more occasions in eight (8) wells (MW-03S, MW-04S, MW-04I, MW-05S, MW-06S, MW-06I, MW-11S and MW-12I).

Biochemical Oxygen Demand

Two (2) wells (MW-05S and MW-06S) showed an increasing trend in biochemical oxygen demand. Eight (8) wells (MW-01S, MW-01I, MW-04S, MW-07I, MW-11S, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 12 wells were consistent.

Bromide

All sampled wells were consistent.

Chemical Oxygen Demand

Four (4) wells (MW-01D, MW-02I, MW-05S and MW-06D) showed an increasing trend in chemical oxygen demand. Five (5) wells (MW-04I, MW-07I, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 9 wells were consistent.

Chloride

Five (5) wells (MW-04I, MW-05I, MW-MW-06I, MW-11S and MW-12D) showed an increasing trend in chloride concentrations. Six (6) wells (MW-01I, MW-03S, MW-05S, MW-05D, MW-06D and MW-07I) showed a decreasing trend. The remaining 11 wells were consistent.

The groundwater standard for chloride (250 mg/l) was exceeded on three occasions in well MW-01D.

Nitrate

Six (6) wells (MW-01I, MW-03S, MW-04I, MW-11D, MW-12I and MW-12D) showed an increasing trend in nitrate concentrations. Five (5) wells (MW-02I, MW-02D, MW-05S, MW-06D and MW-12S) showed a decreasing trend. The remaining 11 wells were consistent.

The groundwater standard for ammonia (10 mg/l) was exceeded during the fourth quarter sampling event in well MW-04I.

Total Phenols

All sampled wells were consistent.

Sulfate

Four (4) wells (MW-01I, MW-11I, MW-12S and MW-12D) showed an increasing trend in sulfate concentrations. Five (5) wells (MW-01S, MW-02D, MW-04D, MW-05I and MW-12I) showed a decreasing trend. The remaining 13 wells were consistent.

Total Organic Carbon

Two (2) wells (MW-02I and MW-12D) showed an increasing trend in total organic carbon concentrations. Three (3) wells (MW-01S, MW-06S and MW-12I) showed a decreasing trend. The remaining 17 wells were consistent.

Total Dissolved Solids

Seven (7) wells (MW-05I, MW-06I, MW-07I, MW-11S, MW-11I, MW-11D and MW-12D) showed an increasing trend in total dissolved solids. Three (3) wells (MW-01S, MW-02D and MW-12I) showed a decreasing trend. The remaining 12 wells were consistent.

Total Kjeldahl Nitrogen

Two (2) wells (MW-02I and MW-07I) showed an increasing trend in total Kjeldahl nitrogen concentrations. Nine (9) wells (MW-01S, MW-02D, MW-04D, MW-06D, MW-11I, MW-11D, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 11 wells were consistent.

4.2.2 Inorganic Parameters

The following discussion presents the concentration trends of the inorganic parameters in the 22 wells sampled during the four quarterly sampling events in 2007. In addition, where applicable, discussion of the individual inorganic parameters that were detected at concentrations exceeding NYSDEC Class GA groundwater standards and guidance values are discussed below. For those parameters which were not included in the Part 360 Routine sampling events but included in the Part 360 Baseline sampling event, the trend was developed by comparison of the first quarter 2007 sampling results to the previous Baseline sampling results. A summary of concentration trends and exceedances of groundwater standards and guidance values for each sampled well is presented in Table 4. Tabulated analytical results for inorganic parameters are provided in Appendix B-2. Graphs illustrating concentration trends for routine parameters for each well are presented in Appendix C.

Aluminum

Fourteen (14) wells (MW-01S, MW-01I, MW-02I, MW-02D, MW-04I, MW-04D, MW-05I, MW-05D, MW-06S, MW-06I, MW-06D, MW-07I, MW-11I and MW-11D) showed an increasing trend in aluminum concentrations. Seven (7) wells (MW-01D, MW-03S, MW-05S, MW-11S, MW-12S, MW-12I and MW-12I) showed a decreasing trend. The remaining well was consistent.

Antimony

All sampled wells were consistent.

Arsenic

Seven (7) wells (MW-01S, MW-03S, MW-05S, MW-05I, MW-11S, MW-11D and MW-12D) showed an increasing trend in arsenic concentrations. Five (5) wells (MW-04I, MW-04D, MW-06S, MW-11I and MW-12I) showed a decreasing trend. The remaining 10 wells were consistent.

Barium

Five (5) wells (MW-01D, MW-05I, MW-05D, MW-07I and MW-11D) showed an increasing trend in barium concentrations. Four (4) wells (MW-02I, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 13 wells were consistent.

Beryllium

Nineteen (19) wells (MW-01S, MW-01D, MW-2I, MW-02D, MW-3S, MW-04S, MW-04I, MW-05I, MW-05D, MW-06S, MW-06I, MW-06D, MW-07I, MW-11S, MW-11I, MW-11D, MW-12S, MW-12I and MW-12D) showed an increasing trend in beryllium concentrations. Well MW-05S showed a decreasing trend. The remaining two wells were consistent.

Boron

Three (3) wells (MW-01D, MW-02I and MW-11D) showed an increasing trend in boron concentrations. Five (5) wells (MW-01S, MW-01I, MW-06S, MW-12S and MW-12I) showed a decreasing trend. The remaining 14 wells were consistent.

Cadmium

Three (3) wells (MW-02D, MW-05D and MW-11S) showed an increasing trend in cadmium concentrations. Eight (8) wells (MW-01S, MW-03S, MW-04S, MW-04D, MW-05S, MW-06S, MW-12S and MW-12I) showed a decreasing trend. The remaining 11 wells were consistent.

Calcium

Four (4) wells (MW-02D, MW-04I, MW-07I and MW-11I) showed an increasing trend in calcium concentrations. Ten (10) wells (MW-01S, MW-01I, MW-03S, MW-04S, MW-05S, MW-05I, MW-05D, MW-06I, MW-12S and MW-12I) showed a decreasing trend. The remaining 8 wells were consistent.

Hexavalent Chromium

All sampled wells were consistent.

Total Chromium

Four (4) wells (MW-01S, MW-05I, MW-06S and MW-11D) showed an increasing trend in chromium concentrations. Fourteen (14) wells (MW-01D, MW-02I, MW-02D, MW-03S, MW-04I, MW-04D, MW-05S, MW-06D, MW-07I, MW-11S, MW-11I, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 4 wells were consistent.

The groundwater standard for chromium (50 ug/l) was exceeded during the first quarter sampling event in well MW-11S.

Cobalt

Three (3) wells (MW-01S, MW-01D and MW-05D) showed an increasing trend in cobalt concentrations. Four (4) wells (MW-01I, MW-05S, MW-11S and MW-12S) showed a decreasing trend. The remaining 15 wells were consistent.

Copper

Four (4) wells (MW-01I, MW-04I, MW-11D and MW-12D) showed an increasing trend in copper concentrations. Fourteen (14) wells (MW-01D, MW-02D, MW-03S, MW-04S, MW-04D, MW-05S, MW-05I, MW-05D, MW-06S, MW-06I, MW-06D, MW-07I, MW-11I and MW-12S) showed a decreasing trend. The remaining 4 wells were consistent.

Iron

Four (4) wells (MW-02D, MW-05S, MW-06D and MW-07I) showed an increasing trend in iron concentrations. Eight (8) wells (MW-01S, MW-03S, MW-05I, MW-11S, MW-11D, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 10 wells were consistent.

The groundwater standard for iron (300 ug/l) was exceeded on one or more occasions in all wells except MW-01I, MW-02I, MW-02D and MW-12I.

Lead

Two (2) wells (MW-02D and MW-06I) showed an increasing trend in lead concentrations. Five (5) wells (MW-05I, MW-11S, MW-12S, MW-12I and MW-12D) showed a decreasing trend in lead concentrations. The remaining 15 wells were consistent.

Magnesium

Three (3) wells (MW-07I, MW-11I and MW-12D) showed an increasing trend in magnesium concentrations. Nine (9) wells (MW-01S, MW-01D, MW-02I, MW-02D, MW-03S, MW-05S, MW-05D, MW-12S and MW-12I) showed a decreasing trend. The remaining 10 wells were consistent.

Manganese

Three (3) wells (MW-01I, MW-02D and MW-07I) showed an increasing trend in manganese concentrations. Eight (8) wells (MW-01S, MW-04S, MW-05S, MW-11S, MW-11D, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 11 wells were consistent.

The groundwater standard for manganese (300 ug/l) was exceeded on one or more occasions in all wells except MW-02D, MW-05D, MW-06I, MW-11I and MW-12D.

Mercury

All sampled wells were consistent.

Nickel

Six (6) wells (MW-01D, MW-03S, MW-04S, MW-05D, MW-06S and MW-11D) showed an increasing trend in nickel concentrations. Six (6) wells (MW-01I, MW-06D, MW-11S, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 10 wells were consistent.

Potassium

Three (3) wells (MW-02I, MW-07I and MW-11S) showed an increasing trend in potassium concentrations. Twelve (12) wells (MW-01I, MW-03S, MW-04S, MW-04D, MW-05S, MW-05I, MW-05D, MW-06S, MW-06I, MW-11I, MW-11D and MW-12I) showed a decreasing trend. The remaining 7 wells were consistent.

Selenium

Well MW-11S showed an increasing trend in selenium concentrations. The remaining 21 wells were consistent.

Silver

Eight (8) wells (MW-01S, MW-01I, MW-01D, MW-02D, MW-04D, MW-06S, MW-06D and MW-07I) showed an increasing trend in silver concentrations. The remaining 14 wells were consistent.

Sodium

Seven (7) wells (MW-02I, MW-04I, MW-05I, MW-06I, MW-11S, MW-11D and MW-12D) showed an increasing trend in sodium concentrations. Eleven (11) wells (MW-01S, MW-01I, MW-01D, MW-02D, MW-03S, MW-04D, MW-05S, MW-05D, MW-06D, MW-11I and MW-12I) showed a decreasing trend. The remaining 4 wells were consistent.

The groundwater standard for sodium (20,000 ug/l) was exceeded on one or more occasions in twelve wells (MW-01S, MW-01D, MW-02I, MW-03S, MW-04S, MW-05S, MW-05I, MW-05D, MW-06S, MW-07I, MW-11S and MW-12S).

Thallium

Three wells (MW-05S, MW-11S and MW-12D) showed an increasing trend in thallium concentrations. Eight (8) wells (MW-01D, MW-02I, MW-03S, MW-04S, MW-04D, MW-05I, MW-06S and MW-06I) showed a decreasing trend. The remaining 11 wells were consistent.

Vanadium

Three (3) wells (MW-04S, MW-06S and MW-11D) showed an increasing trend in vanadium concentrations. Three wells (MW-01D, MW-12S and MW-12D) showed a decreasing trend. The remaining 16 wells were consistent.

Zinc

Well MW-01D showed an increasing trend in zinc concentrations. Eleven (11) wells (MW-01S, MW-03S, MW-04D, MW-05S, MW-05I, MW-05D, MW-11I, MW-11D, MW-12S, MW-12I and MW-12D) showed a decreasing trend. The remaining 10 wells were consistent.

Cyanide

Well MW-01S showed an increasing trend in cyanide concentrations. Well MW-01D showed a decreasing trend in cyanide concentrations. The remaining 20 wells were consistent.

4.2.3 Volatile Organic Compounds

The first quarter 2007 analytical results showed that none of the 22 wells sampled contained any VOCs at concentrations exceeding Class GA groundwater standards or guidance values. Tabulated analytical results for VOCs are provided in Appendix B-3. Graphs illustrating total VOC trends for the monitoring wells are presented in Appendix C.

4.3 Organic Vapor and Combustible Gas Monitoring

The results of the organic vapor and combustible gas monitoring conducted during the 2007 sampling period are presented in Appendix A. For the four quarters of 2007, no organic vapors were detected in the headspace of any well. Combustible gas readings for all 35 wells were 0% of the lower explosive limit (LEL) during the four quarters of 2007.

5.0 DATA VALIDATION

Twenty-two (22) monitoring wells were sampled during the four quarters of 2007 (February, May, August and November) as part of the 2007 Sonia Road Landfill Post Closure Groundwater Monitoring Program. The sample analyses were performed by H2M Laboratories, Inc., a contractor to the IRRA, in accordance with SW-846 methods as specified in the 6 NYCRR Part 360 regulations. H2M Laboratories is approved under the New York State Department of Health Environmental Laboratory Approved Program (ELAP) for the analyses performed. The samples obtained during the first quarter (February) were analyzed for Part 360 Baseline Parameters. Samples obtained during the second (May), third (August) and fourth (November) quarters were analyzed for Part 360 Routine Parameters. For each quarter, the data packages submitted by H2M were validated in accordance with NYSDEC quality assurance (QA) requirements and the Sampling and Analysis Plan (SAP) for the site. In accordance with contract requirements, 20% of the environmental samples and all quality assurance/quality control (QA/QC) samples (calibrations, blanks, matrix spike/matrix spike duplicates [MS/MSDs] and matrix spike blanks [MSBs]) were reviewed yielding a “20% validation.”

The data validation reports for each quarter are included in Appendix D. Except for minor qualification of selected analytical results (which are incorporated into the data summary tables in Appendix B), the data for all four quarters were deemed valid and usable for environmental assessment purposes.

6.0 GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

Groundwater level measurements were obtained as part of each quarterly groundwater sampling event. Representative groundwater elevation contour maps from the fourth quarter of 2007 are presented in Appendix E.

The groundwater elevation contour maps for the shallow (water table), intermediate and deep zones for 2007 are consistent and show that the groundwater flow direction in each of these zones is toward the southeast. These maps are consistent with maps previously prepared for the site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

Groundwater Flow

Based on groundwater level measurements and the shallow (water table), intermediate and deep potentiometric surface elevation contour maps during the four quarters of the Post Closure Groundwater Monitoring Program in 2007, the groundwater flow at and in the vicinity of the Sonia Road Landfill is toward the southeast. This groundwater flow direction is consistent with previous maps prepared for the site.

Groundwater Quality

Based on the results of the groundwater samples collected during Post Closure Groundwater Monitoring Program in 2007 and review of the historical groundwater quality trend graphs, groundwater quality in the vicinity of the Sonia Road Landfill has not substantially changed.

Three leachate indicator parameters (ammonia, chloride and nitrate) and four inorganic parameters (chromium, iron, manganese and sodium) were detected at concentrations exceeding NYSDEC Class GA groundwater standards or guidance values in at least one monitoring well during 2007. Of these parameters, the detected ammonia, chloride, chromium, iron, manganese and sodium are likely not indicative of landfill-influenced groundwater, since concentrations of these parameters above groundwater standards were detected in only upgradient wells (chloride and chromium) or both upgradient and downgradient wells (ammonia, iron, manganese and sodium). An elevated nitrate concentration was detected in downgradient well MW-04I during the fourth quarter sampling event. Historically, nitrate concentrations in this well and the other wells in this cluster) have been well below the standard. The nitrate concentration in well MW-04I will be carefully tracked during 2008 to evaluate whether this detection was an anomaly or whether it represents the beginning of an increasing concentration trend.

7.2 Recommendations

Based on the sample results from 2007 and comparison to historical results, it is recommended to continue to sample the groundwater monitoring wells in accordance with the SAP.

TABLES

Table 1
SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

Well Designation	Date Completed	Well Diameter (inches)	Screen Type	Total Depth (feet below grade)	Screen Setting		Measuring Point Elevation (feet above mean sea level)	
					Depth (feet below measuring point)	Elevation (feet above mean sea level)		
MW-01D ⁽¹⁾	10/14/97	4	SS	106	96-106	(-32) - (-42)	64.53	
MW-01I ⁽¹⁾	10/6/97	4	SS	78	68 - 78	(-2) - (-12)	65.36	
MW-01S ⁽¹⁾	1/5/95	4	PVC	29	19 - 29	47 - 37	66.01	
MW-02D ⁽⁴⁾	10/13/97	4	SS	116	106 - 116	(-27) - (-37)	78.43	
MW-02I ⁽⁴⁾	10/1/97	4	SS	72	62 - 72	16 - 7	78.24	
MW-02S	<i>Abandoned in August 2005</i>							
MW-03D ⁽¹⁾	9/30/97	4	SS	107	97 - 107	(-26) - (-36)	70.50	
MW-03I ⁽¹⁾	1/9/95	4	PVC	84	79 - 84	(-8) - (-13)	70.77	
MW-03S ⁽¹⁾	1/6/95	4	PVC	32	22 - 32	49 - 39	70.76	
MW-04D ⁽¹⁾	10/6/97	4	SS	114	104 - 114	(-35) - (-45)	69.03	
MW-04I ⁽¹⁾	9/29/97	4	SS	71	61 - 71	8 - (-2)	69.31	
MW-04S ⁽¹⁾	1/6/95	4	PVC	34	24 - 34	48 - 38	71.10	
MW-05D ⁽¹⁾	10/10/97	4	SS	116	106 - 116	(-35) - (-45)	70.96	
MW-05I ⁽¹⁾	10/2/97	4	SS	70	60 - 70	11 - 1	70.26	
MW-05S ⁽¹⁾	10/4/97	4	SS	34	19 - 34	52 - 37	70.28	
MW-06D ⁽⁵⁾	10/1/97	4	SS	117	107 - 117	(-32) - (-42)	75.02	
MW-06I ⁽⁴⁾	9/25/97	4	SS	76	66 - 76	9 - (-1)	74.52	
MW-06S ⁽⁵⁾	9/24/97	4	SS	37	22 - 37	53 - 38	74.45	
MW-07D ⁽¹⁾	10/8/97	4	SS	122	112 - 122	(-37) - (-47)	75.04	
MW-07I ⁽⁴⁾	9/26/97	4	SS	74	64 - 74	9 - (-1)	73.43	
MW-07S ⁽¹⁾	9/28/97	4	SS	34	19 - 34	54 - 39	72.83	
MW-10D ⁽²⁾	10/15/97	4	SS	96	86 - 96	(-29) - (-39)	56.34	
MW-10I ⁽²⁾	10/7/97	4	SS	69	59 - 69	(-3) - (-13)	56.16	
MW-10S ⁽²⁾	10/8/97	4	SS	19	4 - 19	53 - 38	56.65	

Table 1 (continued)
SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

Well Designation	Date Completed	Well Diameter (inches)	Screen Type	Total Depth (feet below grade)	Screen Setting			Measuring Point Elevation (feet above mean sea level)
					Depth (feet below measuring point)	Elevation (feet above mean sea level)		
MW-11D ⁽¹⁾	10/16/97	4	SS	94	84 - 94	(-24) - (-34)	60.19	
MW-11I ⁽¹⁾	10/11/97	4	SS	71	61 - 71	(-1) - (-11)	60.38	
MW-11S ⁽¹⁾	10/13/97	4	SS	19	4 - 19	56 - 41	59.87	
MW-12D ⁽¹⁾	10/15/97	4	SS	98	88 - 98	(-29) - (-39)	58.61	
MW-12I ⁽¹⁾	10/10/97	4	SS	70	60 - 70	(-1) - (-11)	58.92	
MW-12S ⁽¹⁾	10/13/97	4	SS	19	4 - 19	55 - 40	58.79	
MW-13D ⁽³⁾	10/16/97	4	SS	119	109 - 119	(-38) - (-48)	70.37	
MW-13I ⁽³⁾	10/7/97	4	SS	71	61 - 71	9 - (-1)	70.30	
MW-13S ⁽³⁾	10/8/97	4	SS	37	22 - 37	49 - 34	70.51	
MW-14D ⁽³⁾	10/17/97	4	SS	105	95 - 105	(-30) - (-40)	64.58	
MW-14I ⁽³⁾	10/9/97	4	SS	71	61 - 71	4 - (-6)	64.57	
MW-14S ⁽³⁾	10/14/97	4	SS	30	15 - 30	50 - 35	64.55	

Notes:

PVC Polyvinyl chloride.
SS Stainless steel.

⁽¹⁾Monitoring wells surveyed by Municipal Land Survey, P.C., August 2001.

⁽²⁾Monitoring wells surveyed by YEC, Inc., November 1997.

⁽³⁾Monitoring wells surveyed by YEC, Inc., September 2000.

⁽⁴⁾Monitoring wells surveyed by Municipal Land Survey, P.C., August 11, 2005.

⁽⁵⁾Monitoring wells surveyed by Municipal Land Survey, P.C., August 2006.

SOURCE: Remedial Investigation/Feasibility Study (RI/FS) dated April 1998 and surveys noted above.

Table 2
WELLS SAMPLED AS PART OF THE POST CLOSURE
GROUNDWATER MONITORING PROGRAM
Sonia Road Landfill Post Closure Groundwater Monitoring Program

MW-01D	MW-04D	MW-06D	MW-11S
MW-01I	MW-04I	MW-06I	MW-12D
MW-01S	MW-04S	MW-06S	MW-12I
MW-02D	MW-05D	MW-07I	MW-12S
MW-02I	MW-05I	MW-11D	
MW-03S	MW-05S	MW-11I	

Table 3
SUMMARY OF CONCENTRATION TRENDS FOR LEACHATE INDICATOR PARAMETERS
2007 SAMPLING EVENTS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

Well	Location	Alkalinity	Ammonia	Biochemical Oxygen Demand	Bromide	Chemical Oxygen Demand	Chloride	Nitrate	Total Phenols	Sulfate	Total Organic Carbon	Total Dissolved Solids	Total Kjeldahl Nitrogen
MW-01S	Upgradient	D	C	D	C	C	C	C	C	D	D	D	D
MW-01I	Upgradient	D	C	D	C	C	D	I	C	I	C	C	C
MW-01D	Upgradient	D	I	C	C	I	C ^[1,2,3]	C	C	C	C	C	C
MW-02I	Upgradient	I	C	C	C	I	C	D	C	C	I	C	I
MW-02D	Upgradient	D	C	C	C	C	C	D	C	D	C	D	D
MW-03S	Downgradient	C	C ^[1,2,3,4]	C	C	C	D	I	C	C	C	C	C
MW-04S	Downgradient	I	D ^[1,2,3,4]	D	C	C	C	C	C	C	C	C	C
MW-04I	Downgradient	I	C ^[3]	C	C	D	I	I ^[4]	C	C	C	C	C
MW-04D	Downgradient	C	C	C	C	C	C	C	C	D	C	C	D
MW-05S	Downgradient	D	C ^[1,2,3,4]	I	C	I	D	D	C	C	C	C	C
MW-05I	Downgradient	D	C	C	C	C	I	C	C	D	C	I	C
MW-05D	Downgradient	C	C	C	C	C	D	C	C	C	C	C	C
MW-06S	Sidegradient	C	C ^[1,2,3,4]	I	C	C	C	C	C	C	D	C	C
MW-06I	Sidegradient	I	C ^[2,4]	C	C	C	I	C	C	C	C	I	C
MW-06D	Sidegradient	C	C	C	C	I	D	D	C	C	C	C	D
MW-07I	Upgradient	I	I	D	C	D	D	C	C	C	C	I	I
MW-11S	Upgradient	I	C ^[3]	D	C	C	I	C	C	C	C	I	C
MW-11I	Upgradient	D	C	C	C	C	C	C	C	I	C	I	D
MW-11D	Upgradient	C	C	C	C	C	C	I	C	C	C	I	D
MW-12S	Upgradient	C	C	D	C	D	C	D	C	I	C	C	D
MW-12I	Upgradient	C	C ^[3]	D	C	D	C	I	C	D	D	D	D
MW-12D	Upgradient	D	C	D	C	D	I	I	C	I	I	I	D

Key: I = Increasing Trend
D = Decreasing Trend
C = Consistent Trend


 Parameter exceeds standard/guidance value for the sampling events indicated by the following notes:
^[1]First Quarter 2007 sampling event
^[2]Second Quarter 2007 sampling event
^[3]Third Quarter 2007 sampling event
^[4]Fourth Quarter 2007 sampling event

Table 4
SUMMARY OF CONCENTRATION TRENDS FOR INORGANIC PARAMETERS
2007 SAMPLING EVENTS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

Well	Location	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Hexavalent Chromium
MW-01S	Upgradient	I	C	I	C	I	D	D	D	C
MW-01I	Upgradient	I	C	C	C	C	D	C	D	C
MW-01D	Upgradient	D	C	C	I	I	I	C	C	C
MW-02I	Upgradient	I	C	C	D	I	I	C	C	C
MW-02D	Upgradient	I	C	C	C	I	C	I	I	C
MW-03S	Downgradient	D	C	I	C	I	C	D	D	C
MW-04S	Downgradient	C	C	C	C	I	C	D	D	C
MW-04I	Downgradient	I	C	D	C	I	C	C	I	C
MW-04D	Downgradient	I	C	D	C	C	C	D	C	C
MW-05S	Downgradient	D	C	I	C	D	C	D	D	C
MW-05I	Downgradient	I	C	I	I	I	C	C	D	C
MW-05D	Downgradient	I	C	C	I	I	C	I	D	C
MW-06S	Sidegradient	I	C	D	C	I	D	D	C	C
MW-06I	Sidegradient	I	C	C	C	I	C	C	D	C
MW-06D	Sidegradient	I	C	C	C	I	C	C	C	C
MW-07I	Upgradient	I	C	C	I	I	C	C	I	C
MW-11S	Upgradient	D	C	I	C	I	C	I	C	C
MW-11I	Upgradient	I	C	D	C	I	C	C	I	C
MW-11D	Upgradient	I	C	I	I	I	I	C	C	C
MW-12S	Upgradient	D	C	C	D	I	D	D	D	C
MW-12I	Upgradient	D	C	D	D	I	D	D	D	C
MW-12D	Upgradient	D	C	I	D	I	C	C	C	C

Key: I = Increasing trend
D = Decreasing trend
C = Consistent trend



Parameter exceeded standard/guidance value for the sampling events indicated by the following notes:

- ⁽¹⁾First Quarter 2006 sampling event
- ⁽²⁾Second Quarter 2006 sampling event
- ⁽³⁾Third Quarter 2006 sampling event
- ⁽⁴⁾Fourth Quarter 2006 sampling event

Table 4 (continued)
SUMMARY OF CONCENTRATION TRENDS FOR INORGANIC PARAMETERS
2007 SAMPLING EVENTS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

Well	Location	Total Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury
MW-01S	Upgradient	I	I	C	D ^(1,2,3,4)	C	D	D ^(1,2,3,4)	C
MW-01I	Upgradient	C	D	I	C	C	C	I ⁽³⁾	C
MW-01D	Upgradient	D	I	D	C ^(1,4)	C	D	C ^(2,3)	C
MW-02I	Upgradient	D	C	C	C	C	D	C ⁽¹⁾	C
MW-02D	Upgradient	D	C	D	I	I	D	I	C
MW-03S	Downgradient	D	C	D	D ^(1,2,3,4)	C	D	C ^(1,2,3,4)	C
MW-04S	Downgradient	C	C	D	C ^(1,2,3,4)	C	C	D ^(1,2,3,4)	C
MW-04I	Downgradient	D	C	I	C ^(1,2,3,4)	C	C	C ^(1,3)	C
MW-04D	Downgradient	D	C	D	C ^(1,2,3,4)	C	C	C ^(1,2,3)	C
MW-05S	Downgradient	D	D	D	I ^(2,3,4)	C	D	D ^(1,2,3,4)	C
MW-05I	Downgradient	I	C	D	D ^(1,2,3,4)	D	C	C ^(1,2,3,4)	C
MW-05D	Downgradient	C	I	D	C ^(1,2,3,4)	C	D	C	C
MW-06S	Sidegradient	I	C	D	C ^(1,2,3,4)	C	C	C ^(1,2,3,4)	C
MW-06I	Sidegradient	C	C	D	C ^(1,2,3,4)	I	C	C	C
MW-06D	Sidegradient	D	C	D	I ^(1,2,3,4)	C	C	C ^(1,2,3,4)	C
MW-07I	Upgradient	D	C	D	I ⁽⁴⁾	C	I	I ^(2,3,4)	C
MW-11S	Upgradient	D ⁽¹⁾	D	C	D ^(1,2)	D	C	D ^(1,2,3,4)	C
MW-11I	Upgradient	D	C	D	D ⁽²⁾	C	I	C	C
MW-11D	Upgradient	I	C	I	C ^(2,4)	C	C	D ^(1,2,3,4)	C
MW-12S	Upgradient	D	D	D	D ^(1,2)	D	D	D ⁽¹⁾	C
MW-12I	Upgradient	D	C	C	D	D	D	D ^(1,2,3,4)	C
MW-12D	Upgradient	D	C	I	D ⁽¹⁾	D	I	D	C

Key: I = Increasing trend
D = Decreasing trend
C = Consistent trend



 Parameter exceeded standard/guidance value for the sampling events indicated by the following notes:
⁽¹⁾First Quarter 2006 sampling event
⁽²⁾Second Quarter 2006 sampling event
⁽³⁾Third Quarter 2006 sampling event
⁽⁴⁾Fourth Quarter 2006 sampling event

Table 4 (continued)
SUMMARY OF CONCENTRATION TRENDS FOR INORGANIC PARAMETERS
2007 SAMPLING EVENTS
Sonia Road Landfill Post Closure Groundwater Monitoring Program

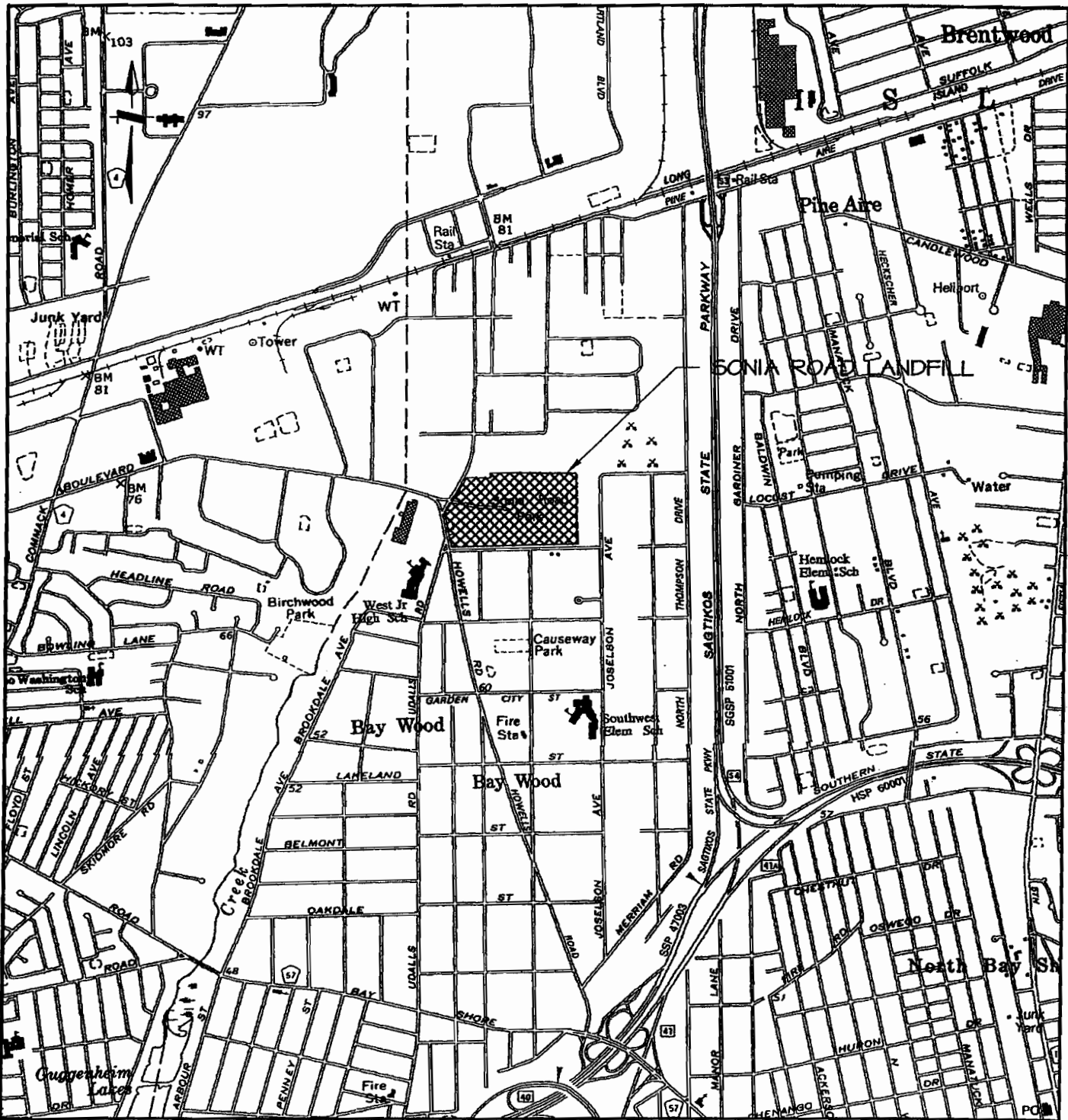
Well	Location	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide
MW-01S	Upgradient	C	C	C	I	D ^[1,2,4]	C	C	D	I
MW-01I	Upgradient	D	D	C	I	D	C	C	C	C
MW-01D	Upgradient	I	C	C	I	D ^[1,2,4]	D	D	I	D
MW-02I	Upgradient	C	I	C	C	I ^[4]	D	C	C	C
MW-02D	Upgradient	C	C	C	I	D	C	C	C	C
MW-03S	Downgradient	I	D	C	C	D ^[1,2,4]	D	C	D	C
MW-04S	Downgradient	I	D	C	C	C ^[1,2,4]	D	I	C	C
MW-04I	Downgradient	C	C	C	C	I	C	C	C	C
MW-04D	Downgradient	C	D	C	I	D	D	C	D	C
MW-05S	Downgradient	C	D	C	C	D ^[1,2,4]	I	C	D	C
MW-05I	Downgradient	C	D	C	C	I ^[1,2,4]	D	C	D	C
MW-05D	Downgradient	I	D	C	C	D ^[1,2,4]	C	C	D	C
MW-06S	Sidegradient	I	D	C	I	C ^[2]	D	I	C	C
MW-06I	Sidegradient	C	D	C	C	I	D	C	C	C
MW-06D	Sidegradient	D	C	C	I	D	C	C	C	C
MW-07I	Upgradient	C	I	C	I	C ^[1,2,4]	C	C	C	C
MW-11S	Upgradient	D	I	I	C	I ^[1,2,3,4]	I	C	C	C
MW-11I	Upgradient	C	D	C	C	D	C	C	D	C
MW-11D	Upgradient	I	D	C	C	I	C	I	D	C
MW-12S	Upgradient	D	C	C	C	C ^[1,4]	C	D	D	C
MW-12I	Upgradient	D	D	C	C	D	C	C	D	C
MW-12D	Upgradient	D	C	C	C	I	I	D	D	C

Key: I = Increasing trend
D = Decreasing trend
C = Consistent trend

 Parameter exceeded standard/guidance value for the sampling events indicated by the following notes:
^[1]First Quarter 2006 sampling event
^[2]Second Quarter 2006 sampling event
^[3]Third Quarter 2006 sampling event
^[4]Fourth Quarter 2006 sampling event

FIGURES

31351 Town of Esopus - DECONSITEP0701 (Sonia Rd Landfill)DRAFT REPORTS\Site Figures\Figure 1.dwg Last Modified Apr 18, 2007 - 1:17pm Plot



SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM

SITE LOCATION MAP

SCALE: 1" = 2000'

FIGURE 1

H2M GROUP

ENGINEERS · ARCHITECTS
MELVILLE, N.Y.

PLANNERS · SCIENTISTS · SURVEYORS
TOTOWA, N.J.

APPENDIX A

**ORGANIC VAPOR, COMBUSTIBLE GAS AND
FIELD PARAMETER RESULTS**

**TOTAL VOLATILE ORGANIC COMPOUNDS AND COMBUSTIBLE GAS READINGS
SONIA ROAD LANDFILL**

Well	First Quarter 2007		Second Quarter 2007		Third Quarter 2007		Fourth Quarter 2007	
	Total VOCs ¹	Combustible Gas ²	Total VOCs ¹	Combustible Gas ²	Total VOCs ¹	Combustible Gas ²	Total VOCs ¹	Combustible Gas ²
MW-01D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-01I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-02D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-02I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-04D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-04I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-05D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-05I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-05S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-06D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-06I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-07I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

¹ Total volatile organic compounds, in parts per million (calibration gas equivalents).

² Percent lower explosive limit for methane.

**FINAL FIELD PARAMETER READINGS
SONIA ROAD LANDFILL**

Well	First Quarter 2007					Second Quarter 2007						
	pH	Specific Conductance (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Temperature (°C)	ORP (mV)	pH	Specific Conductance (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Temperature (°C)	ORP (mV)
MW-01S	6.73	0.217	16.8	1.76	20.38	63	6.86	0.807	47.2	5.00	8.87	-78
MW-01I	7.14	0.198	10.6	1.46	21.84	12	7.00	0.151	15.0	1.91	11.59	-16
MW-01D	7.06	0.167	5.4	1.53	22.16	44	6.35	0.537	17.4	2.36	11.47	71
MW-02I	6.67	0.273	2.8	0.00	20.28	107	5.73	0.282	17.3	4.63	13.87	202
MW-02D	7.03	0.108	1135.0	2.12	22.16	110	5.88	0.077	15.0	9.98	13.96	186
MW-03S	7.69	0.825	2.3	0.00	22.40	-119	6.50	0.708	19.8	7.99	17.63	-107
MW-04S	6.72	0.086	0.0	1.39	19.43	116	6.58	0.837	44.4	12.31	13.54	-90
MW-04I	6.59	0.088	0.0	1.38	18.62	114	6.71	0.446	22.1	8.45	13.89	-98
MW-04D	6.36	0.130	0.0	1.24	18.90	44	7.04	0.216	16.2	0.00	12.99	-84
MW-05S	6.84	0.144	7.3	2.38	22.41	56	6.43	0.859	28.6	5.67	17.19	-95
MW-05I	7.01	0.365	26.3	0.10	23.03	117	6.79	0.525	19.1	1.53	14.57	-110
MW-05D	7.12	0.316	9.5	0.00	22.36	132	6.03	0.487	17.3	10.21	13.37	111
MW-06S	6.80	0.154	9.4	2.17	21.59	98	6.71	0.654	44.3	8.81	18.83	-102
MW-06I	6.43	0.142	0.0	2.41	20.71	151	6.78	0.333	16.2	0.00	14.79	25
MW-06D	6.90	0.960	0.0	0.09	20.04	42	6.02	0.331	12.5	1.46	14.71	33
MW-07I	6.35	0.252	0.0	0.00	18.72	141	5.84	0.298	37.5	1.02	12.30	151
MW-11S	6.04	0.155	16.5	1.81	20.17	73	6.25	0.545	49.0	5.80	11.77	113
MW-11I	7.26	0.254	0.0	1.79	21.39	73	6.35	0.075	14.6	17.68	12.11	129
MW-11D	7.14	0.332	2.1	2.78	21.64	89	5.87	0.178	32.2	18.50	12.35	145
MW-12S	6.71	0.174	0.0	2.39	19.43	139	6.50	0.238	49.0	9.86	13.65	161
MW-12I	6.37	0.142	23.7	1.71	18.96	161	6.06	0.136	16.5	4.00	13.12	172
MW-12D	6.94	0.162	0.0	3.20	19.60	115	5.90	0.099	17.3	11.97	12.93	180

mS/cm: Millisiemens per centimeter
NTUs: Nephelometric turbidity units.

mg/l: Milligrams per liter.
°C: Degrees Centigrade.

ORP: Oxidation-reduction potential.
mV: Millivolts.

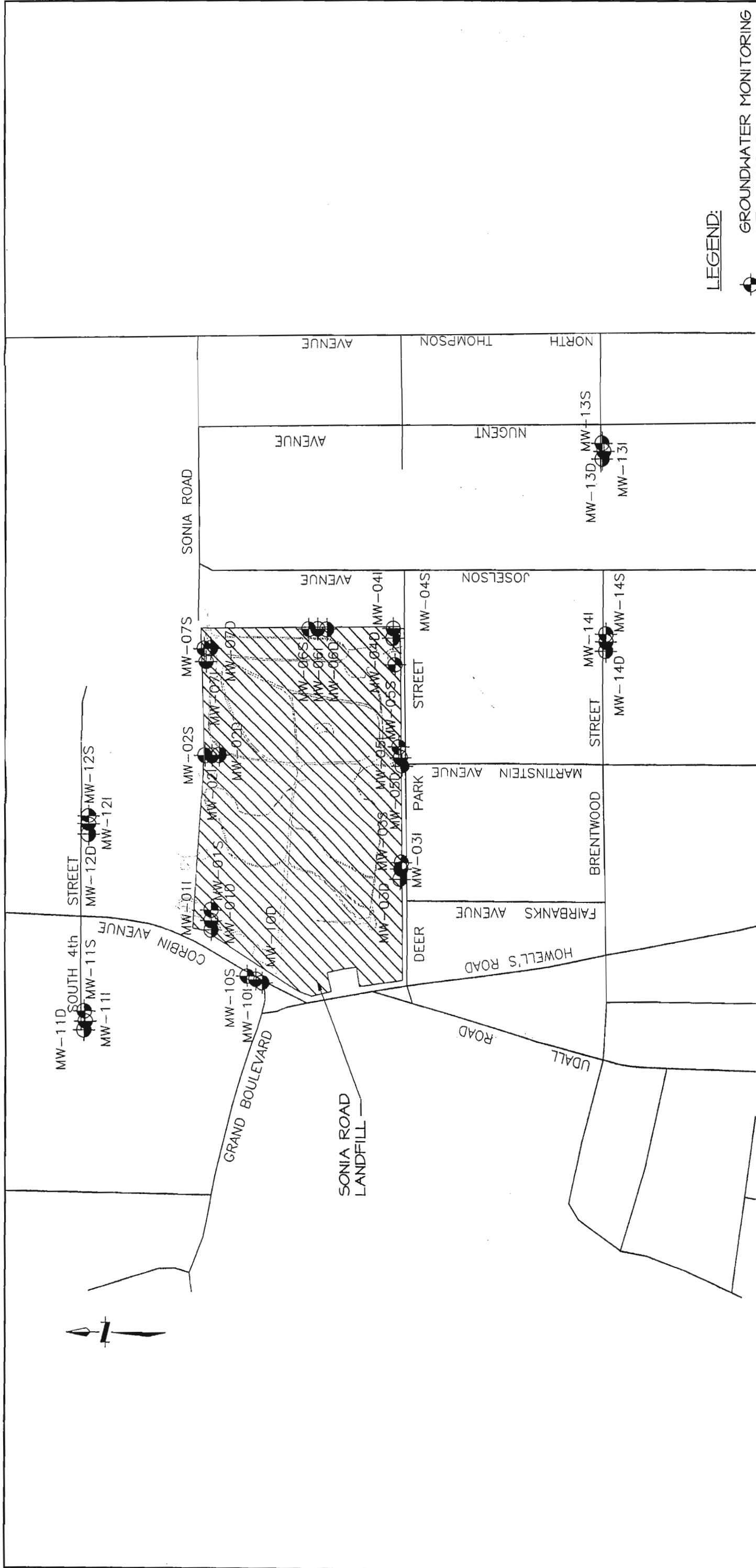
**FINAL FIELD PARAMETER READINGS
SONIA ROAD LANDFILL**

Well	Third Quarter 2007					Fourth Quarter 2007						
	pH	Specific Conductance (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Temperature (°C)	ORP (mV)	pH	Specific Conductance (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Temperature (°C)	ORP (mV)
MW-01S	6.51	0.674	22.3	0.00	13.16	-122	6.81	0.425	43.6	2.51	17.23	-116
MW-01I	5.54	0.138	19.0	0.00	13.98	153	6.19	0.123	2.8	2.66	13.92	125
MW-01D	5.82	0.416	42.3	0.00	13.81	121	6.13	0.363	3.6	3.12	13.63	127
MW-02I	5.68	0.265	33.7	4.79	15.72	142	5.68	0.265	33.7	4.79	15.72	142
MW-02D	5.51	0.077	16.5	10.33	14.98	162	5.51	0.077	16.5	10.33	14.98	162
MW-03S	6.18	0.575	41.5	2.05	19.82	-121	5.95	0.180	50.9	9.28	19.37	91
MW-04S	6.30	0.770	13.6	0.00	16.25	-129	6.70	0.999	37.6	7.43	23.97	-111
MW-04I	6.33	0.640	18.8	2.16	15.49	-146	6.33	0.640	18.8	2.16	15.49	-146
MW-04D	6.57	0.176	11.5	0.00	15.46	-206	6.57	0.176	11.5	0.00	15.46	-206
MW-05S	6.15	0.857	34.6	0.00	19.64	-132	6.15	0.857	34.6	0.00	19.64	-132
MW-05I	6.58	0.422	31.5	0.00	15.47	-167	6.58	0.422	31.5	0.00	15.47	-167
MW-05D	5.58	0.405	18.1	0.00	14.64	91	5.58	0.405	18.1	0.00	14.64	91
MW-06S	6.46	0.441	41.0	0.00	21.70	-160	6.46	0.441	41.0	0.00	21.70	-160
MW-06I	5.94	0.251	47.6	0.00	15.77	-8	6.23	0.230	14.8	2.62	16.95	44
MW-06D	5.79	0.108	15.0	0.00	15.77	59	6.17	0.129	35.3	2.94	18.13	113
MW-07I	6.21	0.260	30.2	0.51	14.22	35	6.94	0.189	63.7	10.37	15.97	99
MW-11S	6.61	0.568	64.1	0.00	19.14	16	6.96	0.599	0.0	3.27	17.67	13
MW-11I	4.71	0.070	42.7	7.68	14.97	233	5.23	0.086	0.0	10.48	14.16	161
MW-11D	4.85	0.184	53.6	5.48	14.22	221	5.07	0.162	38.1	9.18	13.69	117
MW-12S	6.03	0.246	29.2	0.00	19.14	16	6.44	0.251	0.0	3.82	18.01	30
MW-12I	5.43	0.115	43.1	0.00	14.83	117	5.84	0.124	0.0	3.15	13.98	38
MW-12D	5.17	0.117	23.1	0.15	14.70	209	5.58	0.111	0.0	3.85	14.71	66

mS/cm: Millisiemens per centimeter
NTUs: Nephelometric turbidity units.

mg/l: Milligrams per liter.
°C: Degrees Centigrade.

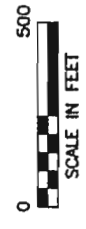
ORP: Oxidation-reduction potential.
mV: Millivolts.



SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM

LEGEND:

- GROUNDWATER MONITORING WELL AND DESIGNATION
- MW-14S

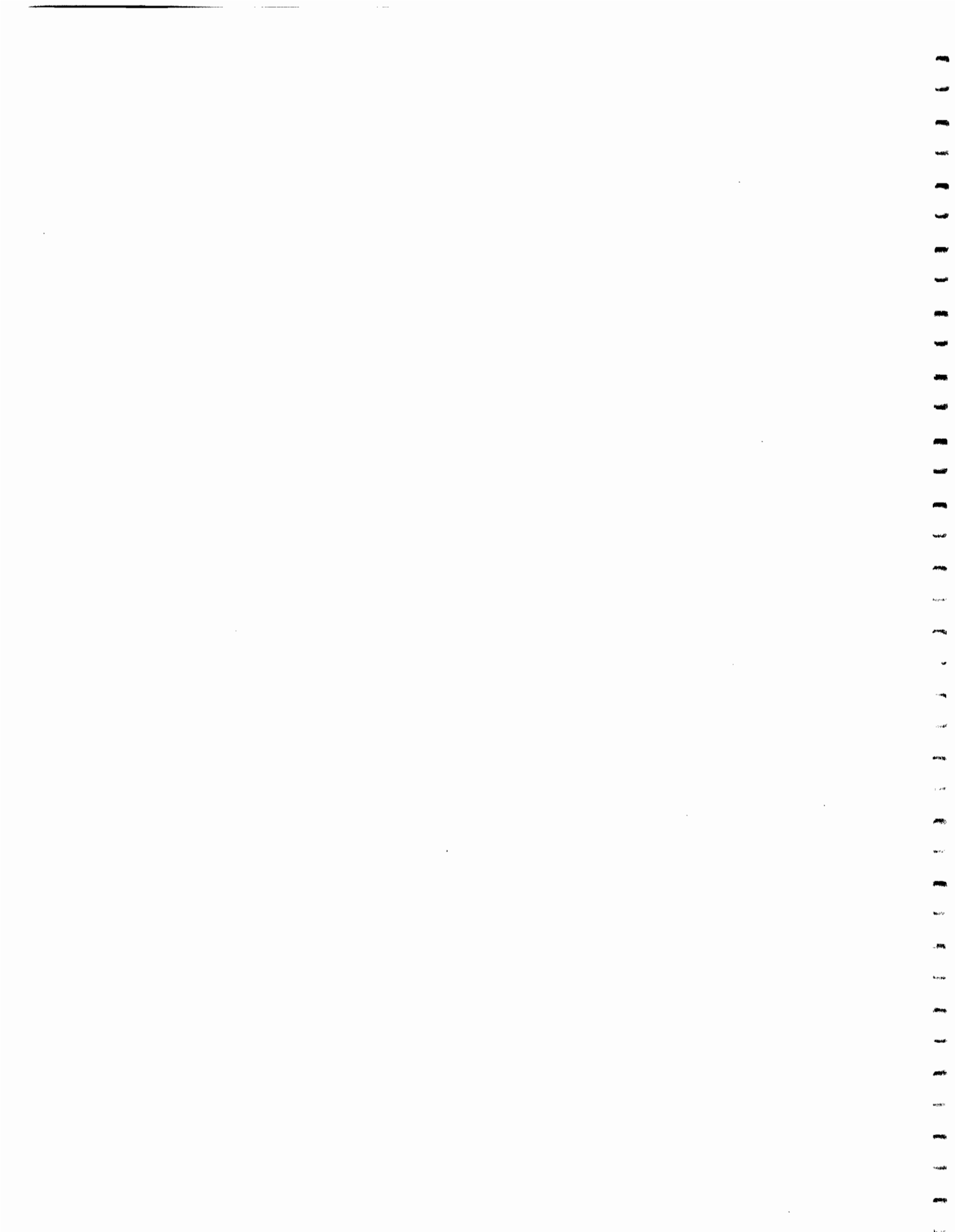


GROUNDWATER MONITORING WELL LOCATIONS
 SCALE: 1" = 2000'

FIGURE 2

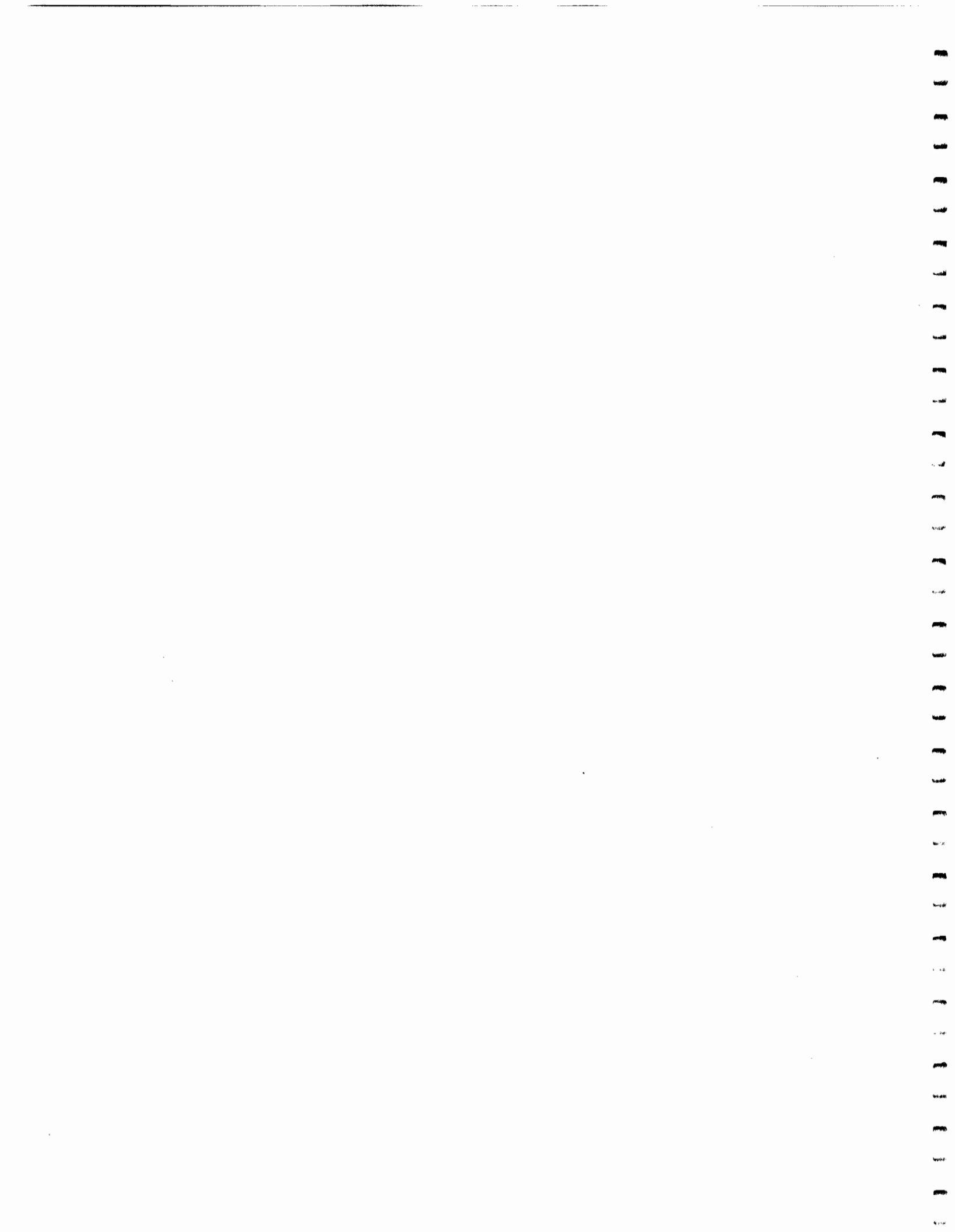
APPENDIX B

HISTORIC DATA TABLES



APPENDIX B-1

Leachate Indicator Parameters



Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	30	NS	NS	NS	20	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	11.4	37	41.6	51.3	44	66.2	66.1	63.4	60.5	60.5
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.36	0.46	0.21	0.33	2.31	0.49	0.10 U	0.10 U	0.60	0.60
Biochemical Oxygen Demand	-	-	(mg/l)	20	2 U	2 U	2 U	6	4	6	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	3.2	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	3 U	21.5	10.7	17.6	48.6	14.3	10 U	10 U	42.9	42.9
Chloride	250 ST	16887-00-6	(mg/l)	198	737	570	589	513	620	256	111	656	656
Hardness (as CaCO3)	-	-	(mg/l)	146	74	80	140	290	58	23	15	160	160
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.2	0.42	1	1.08	0.84	0.61	2.22	2.69	0.41	0.41
Phenols, total	0.001 ST	-	(mg/l)	0.001	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	19.8	19.8	33.2	60.2	26.7	46.8	33	27.5	17.8	17.8
Total Organic Carbon	-	-	(mg/l)	2.3	2.3	2.4	1.5	5.7	1.4	3.8	1.1	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	452	1060	1500	1340	1160	1100	548	290	1040	1040
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2 U	0.59	0.660	0.42	1.37	0.53	0.33	0.34	0.52	0.52

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	53.6	38	36.8	30.8	42.1	53.2	55	55.2	52	52
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.82	0.1 U	1.14	1.52	1.2	1.28	0.88	0.8	0.78	0.78
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.8	0.5 U	0.6	0.7	0.5	0.5 U	0.6	0.6
Chemical Oxygen Demand	-	-	(mg/l)	70.3	122	31.1	88.5	23.5	969	57.2	67.3	78.9	78.9
Chloride	250 ST	16887-00-6	(mg/l)	656	896	292	1,280	1,050	1,160	1,210	1,140	1,370	1,370
Hardness (as CaCO3)	-	-	(mg/l)	260	184	220	196	136	128	135	125	145	145
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.56	1.82	0.51	0.6	0.92	0.98	0.73	0.5	1.31	1.31
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	30.2	46.5	46.2	44.2	46.8	34.3	44.2	35.3	53.8	53.8
Total Organic Carbon	-	-	(mg/l)	1.6	1 U	1.4	1.8	2	2.4	2.4	1.9	2	2
Total Dissolved Solids	-	-	(mg/l)	1,020	1,770	2,060	2,050	1,780	1,720	2,060	2,200	2,320	2,320
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.61	1.76	1.35	1.80	1.67	2.4	1.37	1.1	1.01	1.01

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01D 11/28/06 (mg/l)	MW-01D 2/21/07 (mg/l)	MW-01D 5/25/07 (mg/l)	MW-01D 8/17/07 (mg/l)	MW-01D 11/9/07 (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)	MW-01D (mg/l)
Color (APHA Units)	-	-	(units)	5	20	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	77.0	55.2	48.2	34.9	33.4			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.68	0.10 U	0.37	0.98	0.57			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	10	2 U	2 U	6			
Bromide	2 GV	24959-67-9	(mg/l)	0.5	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	67.3	38.3	71.6	66.2	107			
Chloride	250 ST	16887-00-6	(mg/l)	1,510	689	1,730	1,430	49.5			
Hardness (as CaCO3)	-	-	(mg/l)	200	120	240	180	22.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.58	0.61	2.8	4.25	0.10 U			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	84	36.3	81.6	75.0	5.0 U			
Total Organic Carbon	-	-	(mg/l)	2.5	11.5	2.5	1.4	12.7			
Total Dissolved Solids	-	-	(mg/l)	2,840	1,240	2,730	2,350	212			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.49	3.65	1.66	1.01	3.65			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-I

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-011 10/24/97 (mg/l)	MW-011 11/30/2000 (mg/l)	MW-011 01/30/2001 (mg/l)	MW-011 8/21/02 (mg/l)	MW-011 11/20/02 (mg/l)	MW-011 3/5/03 (mg/l)	MW-011 6/3/03 (mg/l)	MW-011 8/21/03 (mg/l)	MW-011 11/10/03 (mg/l)	MW-011 2/26/04 (mg/l)
Color (APHA Units)	-	-	(units)	NS	5 U	5 U	NS	5	NS	NS	10	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	20.7	65.6	50	14.8	23.4	65.8	58.7	63.8	50	34.8
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.9	0.24	0.63	0.15	0.1 U	0.45	0.25	0.1 U	0.93	1.53
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2	2 U	2 U	2 U	2 U	8	7	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.5 U	1.3	1 U
Chemical Oxygen Demand	-	-	(mg/l)	3 U	10 U	10 U	12.7	10 U	30	10 U	16.8	11.9	13.1
Chloride	250 ST	16887-00-6	(mg/l)	195	34.6	72	16.4	68.7	59.5	13.1	122	96.7	98.8
Hardness (as CaCO3)	-	-	(mg/l)	42	5	30	40	32	80	14	48	106	140
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.72	0.53	1.3	2.74	0.6	0.1 U	0.1 U	0.91	0.79	0.26
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	35.2	10.2	5 U	5 U	12.1	23.4	9.2	5 U	9.6	7.7
Total Organic Carbon	-	-	(mg/l)	2.8	1.7	0.99 J	1.4	1 U	1.4	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	356	179	310	86	310	201	87	307	214	2910
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2 U	0.35	1.16	0.21	0.45	0.7	0.23	0.84	1.41	1.12

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-011 5/20/04 (mg/l)	MW-011 8/19/04 (mg/l)	MW-011 11/8/04 (mg/l)	MW-011 2/28/05 (mg/l)	MW-011 5/25/05 (mg/l)	MW-011 8/24/05 (mg/l)	MW-011 11/28/05 (mg/l)	MW-011 2/24/06 (mg/l)	MW-011 5/17/06 (mg/l)	MW-011 8/8/06 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	42.6	37.6	39.2	29.4	28.4	17.6	22.6	27.8	25.2	39.6
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.55	0.1 U	0.1 U	0.1 U	1.24	0.92	1.02	0.77	0.6	0.72
Biochemical Oxygen Demand	-	-	(mg/l)	2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2	2
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.9	1.1	1.4	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	16.8	14.3	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	21.9	31.2	26.9	29.6	20.3	15.5	16	17.2	15.3	19.2
Hardness (as CaCO3)	-	-	(mg/l)	22	15	26	92	40	31	32	25	26	50
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.55	1.63	1.88	1.41	0.1 U	0.74	0.5	0.12	0.62	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	9.8	5 U	5 U	6.2	8.9	11.2	14	11.3	6.5	6.5
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1 U	1 U	1 U	1.2	1.2	1.1	1	1 U
Total Dissolved Solids	-	-	(mg/l)	157	119	125	121	140	169	119	92	79	97
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.84	0.59	0.56	0.30	1.59	1.15	2.03	1.03	0.8	1.22

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 J: Estimated value
 : Concentration exceeds Standard/Guidance Value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE: DATE: UNITS:	MW-011 11/28/06 (mg/l)	MW-011 2/21/07 (mg/l)	MW-011 5/25/07 (mg/l)	MW-011 8/15/07 (mg/l)	MW-011 11/9/07 (mg/l)	MW-011 (mg/l)	MW-011 (mg/l)	MW-011 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	37.4	25.5	25.2	24.3	14.8			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.65	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2	3	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	13	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	16.7	20.7	19.7	14.6	12.1			
Hardness (as CaCO3)	-	-	(mg/l)	55.0	50.0	50.0	42.0	35			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.30	1.01	1.11	1.82	2.66			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	14.3	16.2	14.6	15.0	17.4			
Total Organic Carbon	-	-	(mg/l)	1 U	2.4	1.5	1 U	1.4			
Total Dissolved Solids	-	-	(mg/l)	100	90	95	94	96			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.10	0.97	0.94	1.53	0.58			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

 : Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S
				10/24/97 (mg/l)	11/30/2000 (mg/l)	01/29/2001 (mg/l)	8/21/02 (mg/l)	11/20/02 (mg/l)	3/5/03 (mg/l)	6/3/03 (mg/l)	8/21/03 (mg/l)	11/10/03 (mg/l)	2/26/04 (mg/l)		
Color (APHA Units)	-	-	(units)	80	50	50	NS	50	NS	NS	20	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	264	183	180	126	211	177	151	161	165	165	165	192
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1	2.1	2.2	1.46	2.03	1.04	0.93	0.1 U	1.57	1.57	0.44	0.44
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	6	2 U	2 U	2 U	4	8	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.7	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.1	5.1	1 U	1 U
Chemical Oxygen Demand	-	-	(mg/l)	46	29.6	10.7	22.5	29.8	83.2	10 U	21.6	38.6	38.6	33	33
Chloride	250 ST	16887-00-6	(mg/l)	69.7	28.4	42	36.6	40.9	60.7	131	65.8	158	158	56.6	56.6
Hardness (as CaCO3)	-	-	(mg/l)	310	140	200	240	520	200	270	320	460	460	54	54
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.080 J	0.1 U	0.1 U	0.1 U	0.12	0.35	0.1 U	0.1 U	0.26	0.26
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	36.3	50	42.5	78	89	117	108	188	282	282	140	140
Total Organic Carbon	-	-	(mg/l)	11.7	6	9.1	4.8	5.1	6.9	4.3	5.6	8.3	8.3	7.4	7.4
Total Dissolved Solids	-	-	(mg/l)	432	259	310	250	420	74	506	534	690	690	498	498
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	2.3	1.9	3.3	1.26	2.11	1.21	0.84	0.85	1.72	1.72	0.77	0.77

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S
				5/20/04 (mg/l)	8/19/04 (mg/l)	11/8/04 (mg/l)	2/28/05 (mg/l)	5/25/05 (mg/l)	8/24/05 (mg/l)	11/28/05 (mg/l)	2/24/06 (mg/l)	5/17/06 (mg/l)	8/8/06 (mg/l)		
Color (APHA Units)	-	-	(units)	20	NS	NS	20	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	184	127	150	171	174	160	121	257	204	204	190	190
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.15	0.1 U	0.24	0.27	0.37	0.22	0.16	0.18	0.29	0.29	0.27	0.27
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	10	2 U	2 U	2 U	4	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.8	1.8	1.4	1.2	0.5 U	0.5 U	0.7	0.5	0.5	0.7	0.7
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	15.6	36.8	26.8	24.3	10 U	41.2	38.7	38.7	16	16
Chloride	250 ST	16887-00-6	(mg/l)	72.1	73.2	83.9	82.9	118	69.2	48.4	85.3	103	103	78.2	78.2
Hardness (as CaCO3)	-	-	(mg/l)	750	190	248	300	290	250	196	330	280	280	260	260
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.61	0.11	0.1 U	0.1 U	0.12	0.74	0.19	0.1 U	0.1 U	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	130	104	140	98.5	87	88.5	86	76	108	108	98	98
Total Organic Carbon	-	-	(mg/l)	6.6	5.2	6.1	6.4	7.2	9.2	5.4	13.1	11.1	11.1	9.3	9.3
Total Dissolved Solids	-	-	(mg/l)	477	455	497	468	491	545	344	572	550	550	472	472
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.07	1.09	0.68	0.47	0.56	2.83	1.24	0.49	0.51	0.51	0.49	0.49

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-01S 11/28/06 (mg/l)	MW-01S 2/21/07 (mg/l)	MW-01S 5/25/07 (mg/l)	MW-01S 8/15/07 (mg/l)	MW-01S 11/9/07 (mg/l)	MW-01S (mg/l)	MW-01S (mg/l)	MW-01S (mg/l)	MW-01S (mg/l)
Color (APHA Units)	-	-	(units)	70	30	NA	NA	NA				
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	198	242	181	200	173				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.33	0.10 U	0.10 U	0.33	0.17				
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	5	2	2 U	2 U				
Bromide	2 GV	24959-67-9	(mg/l)	1.2	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	21.1	40.9	33.3	40.9	28.2				
Chloride	250 ST	16887-00-6	(mg/l)	78.1	69.3	125	90.8	86.0				
Hardness (as CaCO3)	-	-	(mg/l)	320	360	280	270	18.0				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.19	0.36	0.10 U	0.10 U	0.27				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	177	141	71.8	56	46.9				
Total Organic Carbon	-	-	(mg/l)	10.1	12.0	9.6	9.4	6.8				
Total Dissolved Solids	-	-	(mg/l)	604	562	498	459	395				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.84	1.38	1.35	1.26	0.75				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)
Color (APHA Units)	-	-	12/11/97 (mg/l)	5 U	5 U	NS	5	NS	5 U	NS	5 U	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	10.2	13.8	14	10.5	11.9	13.6	13.5	13.6	12.4
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.24	0.2	0.22	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	4	4	11	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	0.5
Chemical Oxygen Demand	-	-	(mg/l)	15 U	73	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	9.4	5.2	5.5	4.3	6.4	7.3	8.6	6.3	5.4
Hardness (as CaCO3)	-	-	(mg/l)	30	30	68	34	40	24	36	100	42
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.4	1.2	1	0.69	1.48	1.49	1.45	1.47	1.62
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	12.6	5 U	8.2	18.6	19.2	18.9	16.1	18.3	19.8
Total Organic Carbon	-	-	(mg/l)	0.7	1 U	0.88 J	1.2	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	76	96	80	60	110	80	73	91	69
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.23	0.19	0.340	0.1 U	0.1 U	0.18	0.1 U	0.1 U	0.1 U

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)
Color (APHA Units)	-	-	5/20/04 (mg/l)	5 U	NS	NS	5 U	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	13.9	14.2	14.2	11.6	11	11.1	11.5	24.7	12.6
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.36	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2.0 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.8	0.5	0.8	0.7	0.5	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	13.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	6.4	7.3	7	9.8	9.1	9.4	8.6	8.4	7.7
Hardness (as CaCO3)	-	-	(mg/l)	110	18	39	38	40	37	39	48	33
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.69	1.36	1.38	1.35	1.35	1.31	1.25	1.2	1.32
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	25.6	20.3	20.1	22.2	8.8	18.6	18.2	17.7	17.9
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	88	83	95	81	88	137	48	79	67
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.27	0.11	0.21	0.14	0.1 U	0.1 U	0.1	0.34	0.12

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02D 11/30/06 (mg/l)	MW-02D 2/22/07 (mg/l)	MW-02D 5/25/07 (mg/l)	MW-02D 8/14/07 (mg/l)	MW-02D 11/13/07 (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)	MW-02D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	9.3	8.2	7.8	8.4	7.2			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.8	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	6.3	6.7	5.8	5.6	6.2			
Hardness (as CaCO3)	-	-	(mg/l)	28	40.0	25	26	22			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.64	0.44	0.31	0.34	0.30			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	17.9	19.3	19.3	19.1	13.4			
Total Organic Carbon	-	-	(mg/l)	1 U	1.0 U	1.0 U	1.0 U	1.0 U			
Total Dissolved Solids	-	-	(mg/l)	61	67	59	62	51			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.18	0.55	0.50	0.50	0.16			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

[REDACTED] : Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-021 10/27/97 (mg/l)	MW-021 12/01/2000 (mg/l)	MW-021 01/30/2001 (mg/l)	MW-021 8/21/02 (mg/l)	MW-021 11/20/02 (mg/l)	MW-021 3/7/03 (mg/l)	MW-021 6/3/03 (mg/l)	MW-021 8/21/03 (mg/l)	MW-021 11/11/03 (mg/l)	MW-021 2/26/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5 U	NS	10	NS	NS	10	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	12.3	9	9.3	4.5	9.6	16.2	17.2	7.4	7.5	9.4
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.65	9.1	0.64	0.10 U	0.1 U	0.29	0.19	0.1 U	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	3	7	3	3
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Chemical Oxygen Demand	-	-	(mg/l)	15 U	56.7	10 U	12.7	10 U	14	10 U	10 U	10 U	28
Chloride	250 ST	16887-00-6	(mg/l)	10	12.8	15	10.8	3.8	14	6.2	8.2	11.1	14.7
Hardness (as CaCO3)	-	-	(mg/l)	26	34	80	32	90	44	46	42	40	44
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.9	2.2	2.4	2.39	2.56	1.68	1.92	2.72	2.82	2.28
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	32.9	5.4	7.80	10.3	13.8	25.1	27.7	16.6	13.9	15
Total Organic Carbon	-	-	(mg/l)	1.5	1.5	1.1	1.3	1.3	3.2	2.3	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	103	88	99	58	97	83	82	112	74	69
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.8	9	1.20	0.1 U	0.28	1.45	0.66	0.26	0.46	0.36

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-021 5/20/04 (mg/l)	MW-021 8/20/04 (mg/l)	MW-021 11/8/04 (mg/l)	MW-021 2/28/05 (mg/l)	MW-021 5/26/05 (mg/l)	MW-021 8/24/05 (mg/l)	MW-021 11/29/05 (mg/l)	MW-021 2/28/06 (mg/l)	MW-021 5/18/06 (mg/l)	MW-021 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	20	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	32.1	10.2	17.8	8.8	8.3	7.4	6.4	9.1	17	25.4
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.23	0.1 U	0.1 U	0.71	0.66	0.42	0.85	0.65	0.33	0.27
Biochemical Oxygen Demand	-	-	(mg/l)	2	2 U	8	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	1	0.8	0.5 U	0.9	0.9	1.1	0.5	0.5 U	0.5
Chemical Oxygen Demand	-	-	(mg/l)	23	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	8.3	11.4	11.3	11.4	12.4	15	26.4	31.4	38.2	24.3
Hardness (as CaCO3)	-	-	(mg/l)	110	25	39	34	36	37	42	39	53	64
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	2.19	3.04	3.03	2.28	2.19	1.96	1.9	2.05	1.4	1.76
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	27.2	19.4	16.5	16	15.3	17.1	8.5	7.8	27.2	33.5
Total Organic Carbon	-	-	(mg/l)	5.7	1 U	1.3	1 U	1 U	1.2	1 U	1.2	1 U	1.2
Total Dissolved Solids	-	-	(mg/l)	127	111	87	80	90	129	81	109	134	135
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.02	0.86	0.92	0.84	0.64	0.64	0.86	0.84	1.06	0.46

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-021 11/30/06 (mg/l)	MW-021 2/22/07 (mg/l)	MW-021 5/25/07 (mg/l)	MW-021 8/14/07 (mg/l)	MW-021 11/13/07 (mg/l)	MW-021 (mg/l)	MW-021 (mg/l)	MW-021 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	31.4	20.9	31.0	41.0	49.8			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.53	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.8	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	1035			
Chloride	250 ST	16887-00-6	(mg/l)	36.8	37.9	35.4	40.3	28.3			
Hardness (as CaCO3)	-	-	(mg/l)	76.0	64.0	68.0	68.0	54			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.62	1.74	0.84	1.2	0.93			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	18.4	23.6	46.6	32.1	24.4			
Total Organic Carbon	-	-	(mg/l)	1.2	1.3	1.8	1.4	2.3			
Total Dissolved Solids	-	-	(mg/l)	129	159	146	194	139			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.82	0.71	0.69	0.68	1.92			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02S 10/27/97 (mg/l)	MW-02S 11/30/2000 (mg/l)	MW-02S 01/31/2001 (mg/l)	MW-02S 8/21/02 (mg/l)	MW-02S 11/20/02 (mg/l)	MW-02S 3/5/03 (mg/l)	MW-02S 6/3/03 (mg/l)	MW-02S 8/21/03 (mg/l)	MW-02S 11/11/03 (mg/l)	MW-02S 2/26/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5 U	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	86.6	86.2	85	NS	NS	NS	NS	NS	NS	NS
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.08	1.5	1.1	NS	NS	NS	NS	NS	NS	NS
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2	NS	NS	NS	NS	NS	NS	NS
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	NS	NS	NS	NS	NS	NS	NS
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	NS	NS	NS	NS	NS	NS	NS
Chloride	250 ST	16887-00-6	(mg/l)	21.2	9.5	10	NS	NS	NS	NS	NS	NS	NS
Hardness (as CaCO3)	-	-	(mg/l)	92	88	120	NS	NS	NS	NS	NS	NS	NS
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.82	2.4	1.8	NS	NS	NS	NS	NS	NS	NS
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	NS	NS	NS	NS	NS	NS	NS
Sulfate	250 ST	14808-79-8	(mg/l)	20.9	26.6	19.2	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	-	-	(mg/l)	2.2	1.6	2.7	NS	NS	NS	NS	NS	NS	NS
Total Dissolved Solids	-	-	(mg/l)	171	138	170	NS	NS	NS	NS	NS	NS	NS
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2	1.4	1.1	NS	NS	NS	NS	NS	NS	NS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02S 5/20/04 (mg/l)	MW-02S 8/20/04 (mg/l)	MW-02S 11/8/04 (mg/l)	MW-02S 2/28/05 (mg/l)	MW-02S 5/26/05 (mg/l)	MW-02S 8/24/05 (mg/l)	MW-02S 11/29/05 (mg/l)	MW-02S 2/28/06 (mg/l)	MW-02S 5/18/06 (mg/l)	MW-02S 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	NS	NS	NS	NS	NS	A	A	A	A	A
Biochemical Oxygen Demand	-	-	(mg/l)	NS	NS	NS	NS	NS	B	B	B	B	B
Bromide	2 GV	24959-67-9	(mg/l)	NS	NS	NS	NS	NS	A	A	A	A	A
Chemical Oxygen Demand	-	-	(mg/l)	NS	NS	NS	NS	NS	N	N	N	N	N
Chloride	250 ST	16887-00-6	(mg/l)	NS	NS	NS	NS	NS	D	D	D	D	D
Hardness (as CaCO3)	-	-	(mg/l)	NS	NS	NS	NS	NS	O	O	O	O	O
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	NS	NS	NS	NS	NS	N	N	N	N	N
Phenols, total	0.001 ST	-	(mg/l)	NS	NS	NS	NS	NS	E	E	E	E	E
Sulfate	250 ST	14808-79-8	(mg/l)	NS	NS	NS	NS	NS	D	D	D	D	D
Total Organic Carbon	-	-	(mg/l)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Dissolved Solids	-	-	(mg/l)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-02S 11/30/06 (mg/l)	MW-02S 2/22/07 (mg/l)	MW-02S 5/25/07 (mg/l)	MW-02S 8/14/07 (mg/l)	MW-02S 11/13/07 (mg/l)	MW-02S (mg/l)	MW-02S (mg/l)	MW-02S (mg/l)	MW-02S (mg/l)
Color (APHA Units)	-	-	(units)									
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)									
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	A	A	A	A	A				
Biochemical Oxygen Demand	-	-	(mg/l)	B	B	B	B	B				
Bromide	2 GV	24959-67-9	(mg/l)	A	A	A	A	A				
Chemical Oxygen Demand	-	-	(mg/l)	N	N	N	N	N				
Chloride	250 ST	16887-00-6	(mg/l)	D	D	D	D	D				
Hardness (as CaCO3)	-	-	(mg/l)	O	O	O	O	O				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	N	N	N	N	N				
Phenols, total	0.001 ST	-	(mg/l)	E	E	E	E	E				
Sulfate	250 ST	14808-79-8	(mg/l)	D	D	D	D	D				
Total Organic Carbon	-	-	(mg/l)									
Total Dissolved Solids	-	-	(mg/l)									
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)									

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-03S 10/30/97 (mg/l)	MW-03S 12/06/2000 (mg/l)	MW-03S 02/02/2001 (mg/l)	MW-03S 8/22/02 (mg/l)	MW-03S 11/22/02 (mg/l)	MW-03S 3/7/03 (mg/l)	MW-03S 6/5/03 (mg/l)	MW-03S 8/25/03 (mg/l)	MW-03S 11/13/03 (mg/l)	MW-03S 3/2/04 (mg/l)
Color (APHA Units)	-	-	(units)	70	70	100	NS	50	NS	NS	60	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	187	183	160	169	146	5 U	175	297	263	213
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	2	2.3	1.66	2.07	2.7	5.78	1.66	2.08	2.88	0.5 U
Biochemical Oxygen Demand	-	-	(mg/l)	11	11	18	5	13	10	8	8	12	9
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.6	2.1	3.1
Chemical Oxygen Demand	-	-	(mg/l)	37	10 U	32.6	34.7	44.5	35.3	33.8	77.6	38.6	50.4
Chloride	250 ST	16887-00-6	(mg/l)	75.3	28.8	26.8	37.6	40.2	30.5	21.2	42.9	52.3	32.7
Hardness (as CaCO3)	-	-	(mg/l)	190	180	188	220	340	500	400	650	440	300
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.254	0.1 U	0.67	0.88	0.1 U	0.27	0.1 U	0.5 U
Phenols, total	0.001 ST	-	(mg/l)	0.0018	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5.1	19	96	545	860	96.5	30.4	5.7	11.2
Total Organic Carbon	-	-	(mg/l)	7.7	4.3	4.67	4.9	3.9	5.8	5.7	8.1	7	6
Total Dissolved Solids	-	-	(mg/l)	246	237	248	290	695	876	452	528	345	320
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	3.1	2	1.7	3	2.48	8.69	1.46	2.92	3.23	2.03

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-03S 5/24/04 (mg/l)	MW-03S 8/23/04 (mg/l)	MW-03S 11/10/04 (mg/l)	MW-03S 3/2/05 (mg/l)	MW-03S 5/31/05 (mg/l)	MW-03S 8/26/05 (mg/l)	MW-03S 11/30/05 (mg/l)	MW-03S 3/1/06 (mg/l)	MW-03S 5/18/06 (mg/l)	MW-03S 8/9/06 (mg/l)
Color (APHA Units)	-	-	(units)	120	NS	NS	200	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	209	225	225	228	278	258	326	368	312	327
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.57	2.28	1.42	1.73	2.19	2.54	2.47	2.59	1.35	3.08
Biochemical Oxygen Demand	-	-	(mg/l)	10	2 U	14	10	10	17	7	10	10	16
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	1.5	4.8	2.2	3.0	2.1	2.8	1.6	1.5	1.1
Chemical Oxygen Demand	-	-	(mg/l)	25.5	10 U	10 U	29.3	66.8	24.3	26.8	36.1	23.6	21.1
Chloride	250 ST	16887-00-6	(mg/l)	41.7	51.1	69.7	52.4	47.9	45.2	56	56.6	45.9	49.2
Hardness (as CaCO3)	-	-	(mg/l)	700	172	320	250	370	270	420	390	320	315
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.56	0.1 U	0.14	0.42	0.18	0.1 U	0.1 U	0.12	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	24.3	5 U	5 U	6	16.6	5 U	110	43.8	5 U	5 U
Total Organic Carbon	-	-	(mg/l)	6.8	6.1	6.2	7	9.5	8.4	10.4	12.8	8.1	9.4
Total Dissolved Solids	-	-	(mg/l)	320	513	334	335	393	486	564	554	424	602
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	2.27	2.61	2.08	2.06	2.89	2.99	3.89	3.32	3.77	4.32

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-03S 11/29/06 (mg/l)	MW-03S 2/22/07 (mg/l)	MW-03S 6/1/07 (mg/l)	MW-03S 8/14/07 (mg/l)	MW-03S 11/14/07 (mg/l)	MW-03S (mg/l)	MW-03S (mg/l)	MW-03S (mg/l)
Color (APHA Units)	-	-	(units)	70	100	NA	NA	NA			
Alkalinity (as CaCO ₃)	-	471-34-1	(mg/l)	274	288	326	288	259			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	2.60	7.88	2.96	2.96	2.22			
Biochemical Oxygen Demand	-	-	(mg/l)	9	21	12	12	19			
Bromide	2 GV	24959-67-9	(mg/l)	1.4	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	43.7	33.3	28.2	33.3	40.9			
Chloride	250 ST	16887-00-6	(mg/l)	47.7	45.8	43.5	37.5	38.2			
Hardness (as CaCO ₃)	-	-	(mg/l)	300	320	340	270	234			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.10 U	0.10 U	0.10 U	0.13			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	11.9	5.0 U	5.0 U	5.0 U	5.0 U			
Total Organic Carbon	-	-	(mg/l)	8.3	8.8	9.8	7.9	7.4			
Total Dissolved Solids	-	-	(mg/l)	404	364	410	360	347			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	3.60	4.52	4.09	4.57	3.67			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04D 10/28/97 (mg/l)	MW-04D 12/06/2000 (mg/l)	MW-04D 02/01/2001 (mg/l)	MW-04D 8/23/02 (mg/l)	MW-04D 11/21/02 (mg/l)	MW-04D 3/7/03 (mg/l)	MW-04D 6/3/03 (mg/l)	MW-04D 8/25/03 (mg/l)	MW-04D 11/11/03 (mg/l)	MW-04D 2/26/04 (mg/l)
Color (APHA Units)	-	-	(units)	150	150	50	NS	60	NS	NS	80	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	210	232	260	117	103	88.2	110	1430	148	163
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	2.8	5.3	5.4	3.91	2.65	3.68	4.33	4.31	4.83	1.19
Biochemical Oxygen Demand	-	-	(mg/l)	8	4	8	13	2 U	2	12	7	4	9
Bromide	2 GV	24959-67-9	(mg/l)	1.1	0.8	1.1	3.0	0.5 U	0.5 U	0.5 U	0.5	2	2.3
Chemical Oxygen Demand	-	-	(mg/l)	46	10 U	10.6	12.7	15.1	10 U	28.9	48.4	19.2	37.9
Chloride	250 ST	16887-00-6	(mg/l)	50.1	42.8	42	20	20.4	12.5	18.6	18.9	17.8	25.1
Hardness (as CaCO3)	-	-	(mg/l)	280	280	200	110	200	140	120	500	320	132
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.1 U	1.52	0.61	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.0049	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	18.3	9.1	6.10	10	42.6	17.9	22.1	21.5	14.8	8
Total Organic Carbon	-	-	(mg/l)	4.7	6.5	6.2	3	1.7	2.9	2	1.8	1.7	2.3
Total Dissolved Solids	-	-	(mg/l)	318	304	310	170	241	40	162	214	208	50
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	5.6	6.6	7	4.47	3.06	4.85	4.14	4.69	4.27	4.54

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04D 5/24/04 (mg/l)	MW-04D 8/23/04 (mg/l)	MW-04D 11/9/04 (mg/l)	MW-04D 3/1/05 (mg/l)	MW-04D 5/27/05 (mg/l)	MW-04D 8/26/05 (mg/l)	MW-04D 11/30/05 (mg/l)	MW-04D 3/1/06 (mg/l)	MW-04D 5/22/06 (mg/l)	MW-04D 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	200	NS	NS	250	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	174	267	295	178	184	198	157	109	66.2	53
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	4.21	5.28	3.08	3.89	3.72	2.87	2.55	1.74	0.48	1.06
Biochemical Oxygen Demand	-	-	(mg/l)	12	2 U	5	4	5	6	3	2	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5	0.5	2.1	0.6	0.5 U	0.8	0.7	0.6	0.9	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	13.1	10 U	30.5	16.8	34.3	14.3	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	27.6	34.8	41.7	34.7	37.5	37.3	38	31.2	26	16.7
Hardness (as CaCO3)	-	-	(mg/l)	800	172	220	260	270	230	168	135	95	80
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.19	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	13	5.1	5 U	13.8	17.7	14.2	23.5	31.2	29.2	23.3
Total Organic Carbon	-	-	(mg/l)	3	3.5	4.1	4.1	4.72	5.4	3.7	3.8	1.8	1.5
Total Dissolved Solids	-	-	(mg/l)	248	415	376	283	271	362	252	226	170	137
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	4.4	5.04	3.89	3.66	3.46	2.88	2.48	2.05	1.44	1.28

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04D 11/30/06 (mg/l)	MW-04D 2/23/07 (mg/l)	MW-04D 5/24/07 (mg/l)	MW-04D 8/10/07 (mg/l)	MW-04D 11/13/07 (mg/l)	MW-04D (mg/l)	MW-04D (mg/l)	MW-04D (mg/l)
Color (APHA Units)	-	-	(units)	70	30	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	49.8	40.0	35.6	U*	39.8			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.90	0.10 U	0.10 U	0.89	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	10.4	10.4	7.6	U*	9.9			
Hardness (as CaCO3)	-	-	(mg/l)	64	55.0	60	75	54.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.76	0.73	10 U	1.0			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	16.5	21.5	19.8	17.0	19			
Total Organic Carbon	-	-	(mg/l)	1.6	1.0 U	3.3	1.4	1.1			
Total Dissolved Solids	-	-	(mg/l)	106	106	95	U*	101			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.60	0.74	0.69	1.9	0.24			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-041 10/29/97 (mg/l)	MW-041 12/06/2000 (mg/l)	MW-041 02/01/2001 (mg/l)	MW-041 8/23/02 (mg/l)	MW-041 11/22/02 (mg/l)	MW-041 3/6/03 (mg/l)	MW-041 6/3/03 (mg/l)	MW-041 8/22/03 (mg/l)	MW-041 11/12/03 (mg/l)	MW-041 2/26/04 (mg/l)
Color (APHA Units)	-	-	(units)	30	200	60	NS	80	NS	NS	150	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	309	339	240	202	385	282	354	387	326	311
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.8	9.2	8.2	5.48	5.38	6.01	6.53	5.49	5.74	4.77
Biochemical Oxygen Demand	-	-	(mg/l)	6	24	20	8	18	39	50	15	62	28
Bromide	2 GV	24959-67-9	(mg/l)	0.8	0.9	0.70	3.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.4
Chemical Oxygen Demand	-	-	(mg/l)	37	10 U	10 U	20	46.9	51.3	31.4	21.6	48.4	30.5
Chloride	250 ST	16887-00-6	(mg/l)	28.7	50.9	48	22.1	49.5	44.4	49.8	47	46	40.2
Hardness (as CaCO3)	-	-	(mg/l)	210	480	200	80	460	290	440	320	390	270
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.12	0.1 U	0.1 U	0.59	0.15	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.0039	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	14.5	5 U	5 U	5 U	10.7	5.6	6.3	5 U	5 U	5 U
Total Organic Carbon	-	-	(mg/l)	5.2	7.5	7.5	5.5	6.4	6.4	7.2	7.4	6.5	6.6
Total Dissolved Solids	-	-	(mg/l)	424	410	310	195	402	400	422	504	368	420
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	4.3	11.4	10.1	6.38	7.29	7.93	6.21	6.88	5.09	4.45

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-041 5/24/04 (mg/l)	MW-041 8/23/04 (mg/l)	MW-041 11/8/04 (mg/l)	MW-041 3/1/05 (mg/l)	MW-041 5/27/05 (mg/l)	MW-041 8/26/05 (mg/l)	MW-041 11/30/05 (mg/l)	MW-041 3/1/06 (mg/l)	MW-041 5/22/06 (mg/l)	MW-041 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	120	NS	NS	140	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	278	279	373	308	300	266	229	164	114	162
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	4.06	4.20	3.50	9.22	8.5	6.32	5.46	3.35	1.56	2.38
Biochemical Oxygen Demand	-	-	(mg/l)	10	8	11	15	19	15	7	9	2 U	3
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.6	4.4	0.5 U	0.8	0.7	0.9	0.5 U	0.5 U	0.8
Chemical Oxygen Demand	-	-	(mg/l)	18.1	10 U	37.9	31.8	64.3	26.8	11.8	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	40.8	40.5	36.3	35	36.8	33.5	33.9	34.4	27.4	29.5
Hardness (as CaCO3)	-	-	(mg/l)	850	208	268	330	250	260	192	160	110	155
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.48	0.1 U	0.11	0.1 U	0.1 U	0.1 U	0.16	0.24	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5 U	13.5	5.3	5 U	5 U	5 U	5.7	17.3	11.5
Total Organic Carbon	-	-	(mg/l)	6.7	7	8.9	8.2	8.79	8	6	5.4	3.4	3.7
Total Dissolved Solids	-	-	(mg/l)	370	480	465	403	333	437	269	250	210	242
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	4.38	4.34	5.37	8.62	7.94	6.64	5.27	3.81	5.47	2.77

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-041 11/30/06 (mg/l)	MW-041 2/23/07 (mg/l)	MW-041 5/24/07 (mg/l)	MW-041 8/10/07 (mg/l)	MW-041 11/13/07 (mg/l)	MW-041 (mg/l)	MW-041 (mg/l)	MW-041 (mg/l)
Color (APHA Units)	-	-	(units)	70	20	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	104	68.8	76.4	245	102			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.33	0.10 U	0.10 U	2.83	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	3	2 U	2 U	18	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.5	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	13.0	10 U	U*	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	19.8	20.8	21.3	42.1	26.5			
Hardness (as CaCO3)	-	-	(mg/l)	100	85	85	230	112			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.98	0.99	10 U	294			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	7.8	12.3	12.4	5.0 U	10.5			
Total Organic Carbon	-	-	(mg/l)	2.4	1.4	2.5	6.6	2.2			
Total Dissolved Solids	-	-	(mg/l)	151	134	158	338	181			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.71	0.90	0.82	5.24	0.10 U			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04S 10/29/97 (mg/l)	MW-04S 12/06/2000 (mg/l)	MW-04S 02/01/2001 (mg/l)	MW-04S 8/23/02 (mg/l)	MW-04S 11/22/02 (mg/l)	MW-04S 3/6/03 (mg/l)	MW-04S 6/3/03 (mg/l)	MW-04S 8/25/03 (mg/l)	MW-04S 11/12/03 (mg/l)	MW-04S 3/2/04 (mg/l)
Color (APHA Units)	-	-	(units)	150	200	80	NS	70	NS	NS	60	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	618	364	400	405	543	489	452	374	402	343
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	9.3	7.8	7.2	7.63	7.18	9.21	9.6	8.64	8.03	1.16
Biochemical Oxygen Demand	-	-	(mg/l)	5	37	34	26	23	44	34	31	41	31
Bromide	2 GV	24959-67-9	(mg/l)	1	1.2	1	4	0.5 U	0.5 U	0.5 U	0.5 U	1.1	3.6
Chemical Oxygen Demand	-	-	(mg/l)	67	10 U	13.4	34.7	37.1	61.9	33.8	996	48.4	60.3
Chloride	250 ST	16887-00-6	(mg/l)	63.3	42.2	49	49.9	51.3	49.3	54.9	44.7	37.9	40.3
Hardness (as CaCO3)	-	-	(mg/l)	540	480	340	380	440	500	460	700	660	560
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.1 U	0.1 U	0.15	0.1 U	0.26	0.1 U	0.21	0.5
Phenols, total	0.001 ST	-	(mg/l)	0.0049	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	8.9	5.30	5 U	14	6.4	11.2	15.9	12.5	28.2
Total Organic Carbon	-	-	(mg/l)	17.3	8.1	11	9	8.8	9.6	8.4	8.9	9.5	8.4
Total Dissolved Solids	-	-	(mg/l)	624	426	460	430	465	595	547	546	610	471
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	23.3	8.9	10.7	7.24	8.65	12.6	10.4	9.9	7.64	5.24

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04S 5/24/04 (mg/l)	MW-04S 8/23/04 (mg/l)	MW-04S 11/9/04 (mg/l)	MW-04S 3/1/05 (mg/l)	MW-04S 5/27/05 (mg/l)	MW-04S 8/26/05 (mg/l)	MW-04S 11/29/05 (mg/l)	MW-04S 2/28/06 (mg/l)	MW-04S 5/22/06 (mg/l)	MW-04S 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	140	NS	NS	140	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	379	378	438	375	336	348	363	350	351	338
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	6.45	6.21	4.52	5.99	5.32	5.05	4.65	4.42	2.63	5.36
Biochemical Oxygen Demand	-	-	(mg/l)	67	22	12	17	21	33	18	22	18	16
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.6	4.6	1.7	1.4	1.2	8.7	3.4	2.4	1.4
Chemical Oxygen Demand	-	-	(mg/l)	35.5	10 U	37.9	24.3	46.8	31.8	24.3	51.2	26.1	26.1
Chloride	250 ST	16887-00-6	(mg/l)	49.3	52.5	51.1	50	59.2	58.3	55.1	59.6	62.6	70.1
Hardness (as CaCO3)	-	-	(mg/l)	900	296	410	440	300	380	360	330	365	305
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.48	0.1 U	0.5	0.24	0.1 U	0.15	0.75	0.2	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	49.4	16.5	30.9	12.4	5 U	11.6	5 U	17.2	17.6	5 U
Total Organic Carbon	-	-	(mg/l)	10.1	8.4	8.6	8.6	9.5	10.1	7.2	9	8.1	9
Total Dissolved Solids	-	-	(mg/l)	440	608	614	490	438	570	444	508	504	474
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	6.73	6.59	5.46	6.05	6.3	5.55	6.7	5.71	6.04	6.07

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-04S 11/30/06 (mg/l)	MW-04S 3/2/07 (mg/l)	MW-04S 5/24/07 (mg/l)	MW-04S 8/10/07 (mg/l)	MW-04S 11/13/07 (mg/l)	MW-04S (mg/l)	MW-04S (mg/l)	MW-04S (mg/l)	MW-04S (mg/l)
Color (APHA Units)	-	-	(units)	80	60	NA	NA	NA				
Alkalinity (as CaCO ₃)	-	471-34-1	(mg/l)	338	285	321	316	342				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	5.80	5.47	5.62	4.99	5.23				
Biochemical Oxygen Demand	-	-	(mg/l)	13	20	12	18	9				
Bromide	2 GV	24959-67-9	(mg/l)	1.0	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	13.5	58.6	25.7	U*	43.4				
Chloride	250 ST	16887-00-6	(mg/l)	72.9	70.7	71.7	61.2	68.1				
Hardness (as CaCO ₃)	-	-	(mg/l)	360	1,100	310	320	290				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5.0 U	5.0 U	5.0 U	5.0 U				
Total Organic Carbon	-	-	(mg/l)	8.0	8.2	8.9	8.5	7.9				
Total Dissolved Solids	-	-	(mg/l)	424	416	435	460	440				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	7.14	7.50	8.45	6.49	7.03				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	DATE :	SITE :	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D
			UNITS:	UNITS:	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Color (APHA Units)	-	-	(units)	(units)	5 U	10	NS	5	NS	NS	5 U	NS	5 U	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	(mg/l)	234	467	138	128	90	90	34.4	29.6	34.4	29.6	41.5	41.5
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	(mg/l)	4.3	14.9	4.41	0.1 U	2.96	2.96	0.1 U	0.1	0.1 U	0.1	1.44	1.44
Biochemical Oxygen Demand	-	-	(mg/l)	(mg/l)	2	5	8	10	2 U	2 U	6	2 U	6	2 U	2	2
Bromide	2 GV	24959-67-9	(mg/l)	(mg/l)	0.5 U	0.5 U	3.2	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.5 U	1.1	6.0	6.0
Chemical Oxygen Demand	-	-	(mg/l)	(mg/l)	43	40.5	17.6	22.5	10 U	10 U	36.2	21.6	36.2	21.6	15.6	15.6
Chloride	250 ST	16887-00-6	(mg/l)	(mg/l)	51.5	65.4	27.9	32.8	34	34	27.1	23.3	27.1	23.3	32.7	32.7
Hardness (as CaCO3)	-	-	(mg/l)	(mg/l)	260	410	148	130	136	136	110	300	110	300	190	190
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	(mg/l)	0.1 U	0.1 U	4.46	5.73	11.4	11.4	15.1	13.5	15.1	13.5	8.85	8.85
Phenols, total	0.001 ST	-	(mg/l)	(mg/l)	0.0015	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	(mg/l)	27.5	25.5	33.5	32.7	15	15	7.6	8.9	7.6	8.9	9	9
Total Organic Carbon	-	-	(mg/l)	(mg/l)	6	13.6	4.3	2.7	1.7	1.7	1 U	1.4	1 U	1.4	1.3	1.3
Total Dissolved Solids	-	-	(mg/l)	(mg/l)	337	549	266	297	242	242	344	190	344	190	284	284
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	(mg/l)	6	15.3	4.57	2.54	3.46	3.46	1.4	1.14	1.4	1.14	1.39	1.39

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	DATE :	SITE :	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D
			UNITS:	UNITS:	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Color (APHA Units)	-	-	(units)	(units)	5	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	(mg/l)	39.6	31.2	29.2	27.2	27.7	27.7	26.6	28.8	26.6	28.8	92	92
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	(mg/l)	1.4	0.1 U	0.93	0.88	0.69	0.69	0.74	0.1 U	0.74	0.1 U	0.92	0.92
Biochemical Oxygen Demand	-	-	(mg/l)	(mg/l)	2 U	2 U	2 U	4	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	(mg/l)	1	1.6	2.8	1.9	1.8	1.8	2.2	3.0	2.2	3.0	1.6	1.6
Chemical Oxygen Demand	-	-	(mg/l)	(mg/l)	10 U	10 U	10 U	24.3	10 U	10 U	10 U	10 U	10 U	10 U	16	16
Chloride	250 ST	16887-00-6	(mg/l)	(mg/l)	23.9	24.8	28.9	25.6	25.9	25.9	31	27.7	31	27.7	69	69
Hardness (as CaCO3)	-	-	(mg/l)	(mg/l)	160	40	84	84	80	80	128	100	128	100	215	215
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	(mg/l)	7.52	9.95	10.1	7.49	7.87	7.87	8.7	9.97	8.7	9.97	3.46	3.46
Phenols, total	0.001 ST	-	(mg/l)	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	(mg/l)	13.4	12.2	11.1	9.9	11.9	11.9	11.8	12.9	11.8	12.9	85.5	85.5
Total Organic Carbon	-	-	(mg/l)	(mg/l)	1 U	1 U	1 U	1 U	1.3	1.3	1.4	1	1.4	1	3.1	3.1
Total Dissolved Solids	-	-	(mg/l)	(mg/l)	189	300	154	168	285	285	178	178	285	178	388	388
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	(mg/l)	1.52	1.28	0.72	1.02	0.77	0.77	0.88	0.78	0.88	0.78	1.29	1.29

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-05D 11/30/06 (mg/l)	MW-05D 2/21/07 (mg/l)	MW-05D 5/25/07 (mg/l)	MW-05D 8/14/07 (mg/l)	MW-05D 11/13/07 (mg/l)	MW-05D (mg/l)	MW-05D (mg/l)	MW-05D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	77.0	42.3	73	59.8	31.5			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.90	0.10 U	0.10 U	0.46	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	1.7	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	13.5	20.6	20.6	18.1	20.6			
Chloride	250 ST	16887-00-6	(mg/l)	63.7	61.0	48.5	44.2	42.6			
Hardness (as CaCO3)	-	-	(mg/l)	190	160	200	180	120			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	2.16	2.84	1.57	2.4	4.33			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	112	85.5	157	103	77.1			
Total Organic Carbon	-	-	(mg/l)	2.9	2.9	3.6	3.3	2.9			
Total Dissolved Solids	-	-	(mg/l)	344	303	348	369	275			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.46	1.00	1.33	1.3	0.58			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

NA: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051
				10/29/97 (mg/l)	12/08/2000 (mg/l)	02/02/2001 (mg/l)	8/23/02 (mg/l)	11/22/02 (mg/l)	3/7/03 (mg/l)	6/5/03 (mg/l)	8/25/03 (mg/l)	11/12/03 (mg/l)	3/2/04 (mg/l)			
Color (APHA Units)	-	-	(units)	40	300	100	NS	60	NS	50	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	30.4	113	157	93	92.5	133	105	177	140	140	140	140	140
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.49	3.9	4.19	1.28	0.1	3.35	0.1 U	5.9	0.86	0.86	0.86	0.86	0.86
Biochemical Oxygen Demand	-	-	(mg/l)	3	4 U	9	10	7	2 U	13	4	7	7	7	7	7
Bromide	2 GV	24959-67-9	(mg/l)	0.6	0.5 U	0.5 U	1.3	1	0.5 U	0.9	0.5 U	3.4	3.4	3.4	3.4	3.4
Chemical Oxygen Demand	-	-	(mg/l)	16	10 U	10 U	10 U	10 U	27.3	10 U	21.6	25.5	25.5	25.5	25.5	25.5
Chloride	250 ST	16887-00-6	(mg/l)	24.3	29.6	39.9	25.3	34.3	39.1	27.5	49.1	46.4	46.4	46.4	46.4	46.4
Hardness (as CaCO3)	-	-	(mg/l)	50	104	140	100	140	120	170	240	400	400	400	400	400
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	1.4	1.94	0.66	0.32	0.1 U	0.1 U	4.52	4.52	4.52	4.52	4.52
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	8.9	24.2	17	21.5	20.4	22.3	15.2	27.9	17.1	17.1	17.1	17.1	17.1
Total Organic Carbon	-	-	(mg/l)	1.8	4.7	5.12	3.4	2.5	3.2	2.5	4.5	4	4	4	4	4
Total Dissolved Solids	-	-	(mg/l)	100	216	250	432	207	280	218	291	303	303	303	303	303
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.7	4.4	5	2.44	1.43	4.77	0.7	5.75	3.62	3.62	3.62	3.62	3.62

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051	MW-051
				5/25/04 (mg/l)	8/23/04 (mg/l)	11/10/04 (mg/l)	3/2/05 (mg/l)	5/31/05 (mg/l)	8/29/05 (mg/l)	11/30/05 (mg/l)	3/1/06 (mg/l)	5/18/06 (mg/l)	8/9/06 (mg/l)			
Color (APHA Units)	-	-	(units)	40	NS	NS	140	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	184	136	188	178	156	150	129	140	124	124	124	124	124
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	5.99	0.1 U	6.44	4.54	4.04	2.47	2.54	0.1 U	2.37	2.37	2.37	2.37	2.37
Biochemical Oxygen Demand	-	-	(mg/l)	6	4	3	6	6	4	3	4	4	4	4	4	4
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	4.0	1.7	1.2	1.7	0.7	0.5 U	0.5	0.5	0.5	0.5	0.5
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	21.8	26.8	16.8	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	49.6	37.4	58.8	45.1	45.4	46.6	42.7	53.9	60.2	60.2	60.2	60.2	60.2
Hardness (as CaCO3)	-	-	(mg/l)	850	98	184	210	200	230	185	190	210	210	210	210	210
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	3.88	0.11	0.39	0.15	0.1 U	0.13	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	14	15.6	17.7	17.1	27.1	41	54	68.5	99.5	99.5	99.5	99.5	99.5
Total Organic Carbon	-	-	(mg/l)	4.8	3.7	5.5	4.8	4.6	5.5	5.5	5.2	5.9	5.9	5.9	5.9	5.9
Total Dissolved Solids	-	-	(mg/l)	287	396	313	284	275	383	289	325	412	412	412	412	412
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	5.92	4.28	6.11	4.18	3.28	2.69	3.01	1.91	2.82	2.82	2.82	2.82	2.82

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-051 11/30/06 (mg/l)	MW-051 2/21/07 (mg/l)	MW-051 5/25/07 (mg/l)	MW-051 8/14/07 (mg/l)	MW-051 11/13/07 (mg/l)	MW-051 (mg/l)	MW-051 (mg/l)	MW-051 (mg/l)	MW-051 (mg/l)
Color (APHA Units)	-	-	(units)	70	20	NA	NA	NA				
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	79.5	72.5	63.3	70.5	57				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.85	0.10 U	0.10 U	1.52	0.10 U				
Biochemical Oxygen Demand	-	-	(mg/l)	3	2 U	7	2 U	2 U				
Bromide	2 GV	24959-67-9	(mg/l)	0.5	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	10 U	25.7	10 U	10.5	18.1				
Chloride	250 ST	16887-00-6	(mg/l)	35.2	33.7	59.1	62.3	61.6				
Hardness (as CaCO3)	-	-	(mg/l)	136	120	130	180	124				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.46	0.11	0.1 U	1.78				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	76.0	59.3	56.8	52.8	50.0				
Total Organic Carbon	-	-	(mg/l)	3.3	3.1	3.9	3.4	3.4				
Total Dissolved Solids	-	-	(mg/l)	231	207	267	286 J	297				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.26	1.05	2.45	2.32	0.41				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-055 10/29/97 (mg/l)	MW-055 12/08/2000 (mg/l)	MW-055 02/02/2001 (mg/l)	MW-055 8/23/02 (mg/l)	MW-055 11/22/02 (mg/l)	MW-055 3/17/03 (mg/l)	MW-055 6/5/03 (mg/l)	MW-055 8/25/03 (mg/l)	MW-055 11/12/03 (mg/l)	MW-055 3/2/04 (mg/l)
Color (APHA Units)	-	-	(units)	60	400	100	NS	60	NS	NS	100	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	412	390	362	236	258	218	252	106	386	160
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	4.4	6.1	6.55	3.17	2.08	2.71	5.57	12.4	9.09	0.97
Biochemical Oxygen Demand	-	-	(mg/l)	8	25	33	32	23	21	28	10	21	4
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.6	0.9	1	1.4	0.5 U	0.5 U	0.5	2.3	3.9
Chemical Oxygen Demand	-	-	(mg/l)	46	10 U	21.8	22.5	15.1	38	31.4	63	50.8	65.3
Chloride	250 ST	16887-00-6	(mg/l)	82.1	36.4	36.6	39.4	46.1	36.3	29.5	37.5	41.4	17.9
Hardness (as CaCO3)	-	-	(mg/l)	400	290	276	240	210	250	600	650	660	220
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.29	0.1 U	0.28	0.83	0.17	1	1.44	7.94
Phenols, total	0.001 ST	-	(mg/l)	0.0049	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5 U	5 U	8.9	25.1	27.5	36	78.5	13.4	28.5
Total Organic Carbon	-	-	(mg/l)	9.6	12	9.17	6.5	5.4	5.2	6.7	10.3	10.7	4.6
Total Dissolved Solids	-	-	(mg/l)	482	385	383	288	342	275	360	640	457	396
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	9.6	7.8	8.4	6.3	2.48	4.41	5.7	14.3	8.66	4.66

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-055 5/25/04 (mg/l)	MW-055 8/23/04 (mg/l)	MW-055 11/10/04 (mg/l)	MW-055 3/2/05 (mg/l)	MW-055 5/31/05 (mg/l)	MW-055 8/29/05 (mg/l)	MW-055 11/30/05 (mg/l)	MW-055 3/1/06 (mg/l)	MW-055 5/18/06 (mg/l)	MW-055 8/9/06 (mg/l)
Color (APHA Units)	-	-	(units)	140	NS	NS	120	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	160	317	270	177	302	377	368	423	414	405
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.44	3.48	2.78	2.84	5.68	6.69	7.24	7.97	8.03	8.05
Biochemical Oxygen Demand	-	-	(mg/l)	15	2 U	9	15	12	28	9	10	13	17
Bromide	2 GV	24959-67-9	(mg/l)	0.8	1.3	2.4	0.5 U	6.0	1.8	0.9	1.2	2.3	3.1
Chemical Oxygen Demand	-	-	(mg/l)	28	15.6	10 U	11.8	69.3	29.3	79.3	38.7	16	28.6
Chloride	250 ST	16887-00-6	(mg/l)	35.8	40.7	50.7	49.8	47	47	51.7	54.1	53.1	54.6
Hardness (as CaCO3)	-	-	(mg/l)	1100	280	340	310	300	320	408	400	370	400
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.45	3.24	1.27	2.49	0.6	0.34	0.9	0.42	0.26	0.3
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	17.2	8.9	7.8	7	5 U	5 U	112	47.8	5.2	5 U
Total Organic Carbon	-	-	(mg/l)	8.2	8	8	5.5	9.5	11.9	11.3	15.6	10.4	11
Total Dissolved Solids	-	-	(mg/l)	361	598	415	318	429	598	588	586	486	546
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	2.44	5.61	3.85	3.28	5.29	7.1	7.51	10.5	10.3	8.89

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS :	MW-05S 11/30/06 (mg/l)	MW-05S 2/21/07 (mg/l)	MW-05S 6/1/07 (mg/l)	MW-05S 8/14/07 (mg/l)	MW-05S 11/13/07 (mg/l)	MW-05S (mg/l)	MW-05S (mg/l)	MW-05S (mg/l)	MW-05S (mg/l)
Color (APHA Units)	-	-	(units)	70	50	NA	NA	NA				
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	392	389	386	420	351				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	6.24	6.07	6.89	7.86	6.46				
Biochemical Oxygen Demand	-	-	(mg/l)	18	12	12	23	16				
Bromide	2 GV	24959-67-9	(mg/l)	2.3	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	16.0	38.3	38.3	51	43.4				
Chloride	250 ST	16887-00-6	(mg/l)	60.6	58.4	48.8	46.2	49				
Hardness (as CaCO3)	-	-	(mg/l)	340	360	360	440	340				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.22	0.54	0.1 U	0.10 U				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5.0 U	5.0 U	5.0 U	5.0 U				
Total Organic Carbon	-	-	(mg/l)	8.8	10.3	11.1	10.9	9.5				
Total Dissolved Solids	-	-	(mg/l)	460	451	454	502	456				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	9.46	8.54	9.15	9.63	8.4				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-06D 10/28/97 (mg/l)	MW-06D 12/05/2000 (mg/l)	MW-06D 01/31/2001 (mg/l)	MW-06D 8/22/02 (mg/l)	MW-06D 11/20/02 (mg/l)	MW-06D 3/5/03 (mg/l)	MW-06D 6/5/03 (mg/l)	MW-06D 8/22/03 (mg/l)	MW-06D 11/11/03 (mg/l)	MW-06D 2/27/04 (mg/l)
Color (APHA Units)	-	-	(units)	10	30	5 U	NS	20	NS	NS	5 U	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	31.3	40.6	38	40	31.2	35.5	27.3	34.3	36.8	24.7
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.32	0.1 U	0.24	0.1 U	0.1 U	0.14	0.1 U	0.1 U	0.24	0.2
Biochemical Oxygen Demand	-	-	(mg/l)	3	37	2 U	2 U	2 U	2 U	2 U	8	16	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.60	0.5 U	0.5 U	0.5 U	0.5 U	0.7	5.1	2.9
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	22.5	22.5	19.3	10 U	10 U	55.7	10.6
Chloride	250 ST	16887-00-6	(mg/l)	7.3	12.6	9.3	14.7	16.2	10.5	5.6	5.1	5	7
Hardness (as CaCO3)	-	-	(mg/l)	120	44	68	72	62	80	80	80	80	40
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.2	0.14	0.67	0.4	0.36	1.47	0.2	1.04	0.33
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	20.3	23.3	17.2	14.5	23	26	25.5	24.4	26.8	17.8
Total Organic Carbon	-	-	(mg/l)	2	1.7	1.1	1.2	1 U	1 U	1 U	1 U	1.7	1 U
Total Dissolved Solids	-	-	(mg/l)	78	130	120	100	150	96	97	117	105	155
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2 U	0.2	0.46	0.1 U	0.1 U	0.1	0.1 U	0.1 U	3.07	0.24

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-06D 5/24/04 (mg/l)	MW-06D 8/20/04 (mg/l)	MW-06D 11/9/04 (mg/l)	MW-06D 3/1/05 (mg/l)	MW-06D 5/27/05 (mg/l)	MW-06D 8/26/05 (mg/l)	MW-06D 11/29/05 (mg/l)	MW-06D 2/28/06 (mg/l)	MW-06D 5/18/06 (mg/l)	MW-06D 8/9/06 (mg/l)
Color (APHA Units)	-	-	(units)	5	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	11.6	23.8	30.8	22.5	21	21.7	18.8	8.6	24.4	21.8
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.21	0.1 U	0.1 U	0.12	0.1 U	0.12	0.11	0.28	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	10	2 U	2 U	2 U	2 U	2 U	2 U	3
Bromide	2 GV	24959-67-9	(mg/l)	0.6	3.1	4.6	2.9	0.5	3.4	3.2	2.3	3.6	4.3
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	13.5	11.8	24.3	16.8	10 U	13.5	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	5.9	8	8.9	9.7	8.58	8.1	8.4	9.4	9.3	11.2
Hardness (as CaCO3)	-	-	(mg/l)	105	28	63	58	52	40	42	39	5 U	5 U
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.45	0.5	0.21	0.71	0.519	0.18	0.58	0.34	0.37	0.49
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.0088	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	26.6	19.2	16.9	16.8	20.5	17.9	17.8	19.6	16.6	14.6
Total Organic Carbon	-	-	(mg/l)	1.1	1 U	3.2	1	1.19	1 U	1 U	1.3	1.2	1.2
Total Dissolved Solids	-	-	(mg/l)	93	109	92	105	87	99	55	96	80	160
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.23	0.73	2.06	0.88	1 J	0.1 U	0.47	0.11	0.1 U	0.18

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-06D 12/11/06 (mg/l)	MW-06D 2/22/07 (mg/l)	MW-06D 5/24/07 (mg/l)	MW-06D 8/10/07 (mg/l)	MW-06D 11/9/07 (mg/l)	MW-06D (mg/l)	MW-06D (mg/l)	MW-06D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	19.9	10.1	6.0	U*	12.2			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.14	0.10 U	0.10 U	0.01 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	3.1	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	23.1			
Chloride	250 ST	16887-00-6	(mg/l)	12.7	14.7	14.1	U*	13.9			
Hardness (as CaCO3)	-	-	(mg/l)	52	43.0	24	56	30.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.74	0.73	0.70	U*	0.7			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	13.7	17.9	16.7	16.6	17.7			
Total Organic Carbon	-	-	(mg/l)	1 U	1.0	1.2	1.0 U	1.7			
Total Dissolved Solids	-	-	(mg/l)	82	74	72	U*	74			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.26	0.71	0.63	0.50	0.19			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-061 10/28/97 (mg/l)	MW-061 12/05/2000 (mg/l)	MW-061 02/01/2001 (mg/l)	MW-061 8/21/02 (mg/l)	MW-061 11/21/02 (mg/l)	MW-061 3/5/03 (mg/l)	MW-061 6/5/03 (mg/l)	MW-061 8/22/03 (mg/l)	MW-061 11/11/03 (mg/l)	MW-061 2/27/04 (mg/l)
Color (APHA Units)	-	-	(units)	10	30	30	NS	5	NS	NS	5 U	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	115	97.1	77	43.7	50.7	55.7	48.9	58.7	45	37.2
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.76	1.7	1.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.17	0.17
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	14	2	2 U	2 U	2 U	11	8	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.8 U	0.5 U	0.5 U	0.8	2.5	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	10.2	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	25.4	20.1	18	12.3	16.2	8.8	8.4	10.1	13.1	12.7
Hardness (as CaCO3)	-	-	(mg/l)	180	108	120	80	170	40	108	85	88	110
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.14	2.24	0.97	0.79	2.1	0.95	1.15	1.19
Phenols, total	0.001 ST	-	(mg/l)	0.002	0.005 U	0.005 U	0.005	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	21.2	47.8	50.4	12.7	12.7	16	17.4	25.9	30.9	31
Total Organic Carbon	-	-	(mg/l)	2.4	1.8	2.4	1.7	1.4	1	1.2	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	190	211	120	99	151	94	123	153	119	60
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.4	2	2.30	0.1 U	0.1 U	0.23	0.13	0.14	0.19	0.18

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-061 5/24/04 (mg/l)	MW-061 8/20/04 (mg/l)	MW-061 11/9/04 (mg/l)	MW-061 3/1/05 (mg/l)	MW-061 5/27/05 (mg/l)	MW-061 8/25/05 (mg/l)	MW-061 11/29/05 (mg/l)	MW-061 2/28/06 (mg/l)	MW-061 5/18/06 (mg/l)	MW-061 8/9/06 (mg/l)
Color (APHA Units)	-	-	(units)	20	NS	NS	5	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	33.2	45.4	58.8	41.9	44.6	42.8	49.8	74.6	62.2	81.6
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.22	0.1 U	0.49	0.27	0.562	0.87	2.01	1.47	0.1 U	3.93
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	3	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	2.8	0.5 U	0.5 U	1.3	1.3	0.6	0.5	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	70.3	10 U	51.8	16.8	10 U	11	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	18.7	19.4	42.9	25.9	14	14	41	47.2	23.5	20.7
Hardness (as CaCO3)	-	-	(mg/l)	180	34	92	112	70	66	94	130	90	90
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.67	1.18	1.06	1.89	1.33	1.34	2.01	0.47	0.48	0.32
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	20.5	26.7	28.7	36.1	18.7	19.5	25.3	46.2	23.9	25.0
Total Organic Carbon	-	-	(mg/l)	1.2	1	1.8	1.7	2.03	1.2	1.3	2.7	1.3	1.7
Total Dissolved Solids	-	-	(mg/l)	119	142	189	144	108	203	145	240	146	86
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2	0.17	0.96	0.34	0.664	1.06	2.2	2.27	2.98	4.57

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

NA: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-061 12/1/06 (mg/l)	MW-061 2/22/07 (mg/l)	MW-061 5/24/07 (mg/l)	MW-061 8/10/07 (mg/l)	MW-061 11/9/07 (mg/l)	MW-061 (mg/l)	MW-061 (mg/l)	MW-061 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	65.2	27.5	24.7	U*	33			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	4.35	4.61	0.10 U	3.34	0.56 J			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	6	2	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	31.5	31.8	32.3	29.9	36.4			
Hardness (as CaCO3)	-	-	(mg/l)	68	70.0	72	76	76			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.64	4.61	5.37	2.79	6.02			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	21.0	22.1	19.9	24.1	21.2			
Total Organic Carbon	-	-	(mg/l)	1.1	1.3	1.0	1.3	1.2			
Total Dissolved Solids	-	-	(mg/l)	144	147	161	166	184			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	6.21	1.93	1.28	5.36	0.81 J			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS :	MW-06S 10/27/97 (mg/l)	MW-06S 12/5/00 (mg/l)	MW-06S 02/01/2001 (mg/l)	MW-06S 8/21/02 (mg/l)	MW-06S 11/20/02 (mg/l)	MW-06S 3/5/03 (mg/l)	MW-06S 6/4/03 (mg/l)	MW-06S 8/22/03 (mg/l)	MW-06S 11/11/03 (mg/l)	MW-06S 2/27/04 (mg/l)
Color (APHA Units)	-	-	(units)	150	100	70	NS	60	NS	NS	150	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	453	245	200	161	183	156	202	279	239	258
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	7.2	3.5	3.7	3.97	2.76	2.2	2.67	5.45	4.79	3.28
Biochemical Oxygen Demand	-	-	(mg/l)	5	17	10	2 U	6	3	55	16	25	9
Bromide	2 GV	24959-67-9	(mg/l)	0.6	0.7	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	4.3	2.1
Chemical Oxygen Demand	-	-	(mg/l)	46	10.7	10 U	24.9	10 U	27.3	10 U	41.1	21.6	30.5
Chloride	250 ST	16887-00-6	(mg/l)	39.8	14.8	20	15.8	19.6	10.7	20	22.3	17.4	19.9
Hardness (as CaCO3)	-	-	(mg/l)	440	280	140	220	280	80	200	420	280	36
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.1 U	0.1 U	0.1 U	0.21	1.97	0.32	0.17	0.29	0.1 U	1.15
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5 U	8.40	33.8	38.2	18.3	20.6	133	39.8	12.2
Total Organic Carbon	-	-	(mg/l)	11.4	4.4	5.8	4.6	2.9	5.1	4.2	13.1	5.7	9
Total Dissolved Solids	-	-	(mg/l)	480	270	220	213	391	230	239	564	338	395
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	17.3	3.9	4.9	4.68	3.24	3.53	3.3	7.64	4.11	3.67

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS :	MW-06S 5/24/04 (mg/l)	MW-06S 8/20/04 (mg/l)	MW-06S 11/9/04 (mg/l)	MW-06S 3/1/05 (mg/l)	MW-06S 5/25/05 (mg/l)	MW-06S 8/25/05 (mg/l)	MW-06S 11/29/05 (mg/l)	MW-06S 2/28/06 (mg/l)	MW-06S 5/22/06 (mg/l)	MW-06S 8/9/06 (mg/l)
Color (APHA Units)	-	-	(units)	100	NS	NS	300	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	206	337	182	166	126	310	240	75.4	410	410
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	4.39	11.1	2.04	2.24	0.96	7.37	5.29	3.56	4.76	6.47
Biochemical Oxygen Demand	-	-	(mg/l)	4	14	5	6	2 U	6	6	8	11	13
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	2	1	0.5 U	3.9	5.6	4.2	0.5 U	0.5 U	0.6
Chemical Oxygen Demand	-	-	(mg/l)	23	18.1	185	16.8	19.3	109	10 U	41.2	33.6	36.1
Chloride	250 ST	16887-00-6	(mg/l)	16.4	37.4	29.6	28.1	13	37	28.8	27.6	27	28.3
Hardness (as CaCO3)	-	-	(mg/l)	950	250	150	184	330	280	264	310	370	390
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	3.76	0.17	0.22	3.76	13.9	0.17	0.48	3.91	0.25	0.34
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	80	5.5	6.7	12.8	72.2	6.6	50.3	53.2	37.9	6.4
Total Organic Carbon	-	-	(mg/l)	7.8	9.6	4.1	1 U	10.8	10.3	7.1	10.8	14.2	13.2
Total Dissolved Solids	-	-	(mg/l)	336	442	292	269	327	564	346	410	538	520
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	4.7	12.3	4.29	2.8	3.37	7.36	5.65	5.21	8.01	8.15

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-06S 12/1/06 (mg/l)	MW-06S 2/22/07 (mg/l)	MW-06S 5/24/07 (mg/l)	MW-06S 8/10/07 (mg/l)	MW-06S 11/9/07 (mg/l)	MW-06S (mg/l)	MW-06S (mg/l)	MW-06S (mg/l)
Color (APHA Units)	-	-	(units)	80	80	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	327	216	258	166	289			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	6.08	4.42	4.65	3.04	5.15			
Biochemical Oxygen Demand	-	-	(mg/l)	14	9	10	4	140			
Bromide	2 GV	24959-67-9	(mg/l)	0.5	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	35.8	25.7	U*	38.3			
Chloride	250 ST	16887-00-6	(mg/l)	24.1	28.8	41.0	33.0	32.4			
Hardness (as CaCO3)	-	-	(mg/l)	312	240	260	160	500			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	4.48	0.10 U	0.10 U	0.10 U	0.10 U			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	5 U	5.0 U	5.0 U	5.1	5.0 U			
Total Organic Carbon	-	-	(mg/l)	9.1	6.6	9.5	5.0	8.0			
Total Dissolved Solids	-	-	(mg/l)	364	246	331	233	348			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	9.50	6.48	7.96	U*	6.56			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-071 10/28/97 (mg/l)	MW-071 12/01/2000 (mg/l)	MW-071 01/31/2001 (mg/l)	MW-071 8/21/02 (mg/l)	MW-071 11/20/02 (mg/l)	MW-071 3/5/03 (mg/l)	MW-071 6/3/03 (mg/l)	MW-071 8/22/03 (mg/l)	MW-071 11/11/03 (mg/l)	MW-071 2/27/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5 U	5	5	NS	NS	5 U	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	23.4	22.1	23	13.9	12.6	17.5	28.1	24.1	21.5	23.6
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.3	0.89	1.2	0.1 U	0.1 U	0.54	0.99	0.51	0.52	1.84
Biochemical Oxygen Demand	-	-	(mg/l)	6	2 U	8	2 U	3	3	7	4	2 U	11
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.6	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.6	3.4	1.2
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	12.7	10 U	27.3	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	9.2	37.6	31	7.8	5.8	6.4	19.8	10.1	10.3	24
Hardness (as CaCO3)	-	-	(mg/l)	180	72	88	40	160	80	34	58	40	48
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.88	3.4	3.1	3.63	2.47	2.03	1.6	1.7	2.46	1.66
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	19.9	6	18.9	13.8	17.9	16.6	15.9	22.3	15.9	15.8
Total Organic Carbon	-	-	(mg/l)	1.9	1 U	1.2	1.6	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	65	164	140	74	54	84	89	99	74	90
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.7	0.84	1.6	0.1 U	0.1 U	0.92	1.03	0.62	1.02	1.5

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-071 5/20/04 (mg/l)	MW-071 8/20/04 (mg/l)	MW-071 11/9/04 (mg/l)	MW-071 2/28/05 (mg/l)	MW-071 5/27/05 (mg/l)	MW-071 8/24/05 (mg/l)	MW-071 11/29/05 (mg/l)	MW-071 2/28/06 (mg/l)	MW-071 5/22/06 (mg/l)	MW-071 8/10/06 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	16.8	23	25.2	23.6	23	23.3	20.6	20.4	19	20.4
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.41	0.1 U	1.04	1.17	1.07	0.68	0.73	0.74	0.1 U	0.6
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	4	2 U	5	2 U	2 U	2 U	3	17	2
Bromide	2 GV	24959-67-9	(mg/l)	1.7	1.7	2.7	2.8	0.7	2.4	2.1	1.7	1.9	2.2
Chemical Oxygen Demand	-	-	(mg/l)	30.5	10 U	172	14.3	11.8	10 U	10 U	16	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	28.4	27.6	24	21.5	21.6	22.7	25.5	24.3	84.1	64.7
Hardness (as CaCO3)	-	-	(mg/l)	100	30	43	47	54	70	62	46	165	105
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	2.66	4.72	2.66	2.76	2.89	2.61	1.8	1.28	2.93	1.66
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	21.8	20.4	13.9	17.2	19.3	25.8	27.8	15.4	30.7	29.2
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1	1 U	1.02	1.7	1 U	1.6	1.5	2.6
Total Dissolved Solids	-	-	(mg/l)	114	129	111	101	112	214	147	117	332	265
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.53	2.75	2.08	1.3	1.27	0.75	0.61	0.95	1.49	0.88

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-071 11/28/06 (mg/l)	MW-071 2/22/07 (mg/l)	MW-071 5/24/07 (mg/l)	MW-071 8/10/07 (mg/l)	MW-071 11/14/07 (mg/l)	MW-071 (mg/l)	MW-071 (mg/l)	MW-071 (mg/l)	MW-071 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA				
Alkalinity (as CaCO ₃)	-	471-34-1	(mg/l)	20.4	14.7	27.9	U*	33.8				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.36	0.10 U	0.10 U	1.68	1.76				
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	4	3	2 U	2 U				
Bromide	2 GV	24959-67-9	(mg/l)	1.4	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	10 U	15.5	10 U	10 U	10 U				
Chloride	250 ST	16887-00-6	(mg/l)	57.5	49.7	43.7	35.0	37.7				
Hardness (as CaCO ₃)	-	-	(mg/l)	65.0	54.0	55.0	56.0	44.0				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.91	1.47	1.52	10 U	1.05				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	10	11.5	28.9	24.1	21.9				
Total Organic Carbon	-	-	(mg/l)	1 U	1.2	1.7	3	1.4				
Total Dissolved Solids	-	-	(mg/l)	190	148	147	162	326				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.52	0.87	1.47	U*	1.98				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

NA: Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE DATE UNITS	MW-11D 10/31/97 (mg/l)	MW-11D 12/13/2000 (mg/l)	MW-11D 02/07/2001 (mg/l)	MW-11D 8/22/02 (mg/l)	MW-11D 11/21/02 (mg/l)	MW-11D 3/6/03 (mg/l)	MW-11D 6/4/03 (mg/l)	MW-11D 8/21/03 (mg/l)	MW-11D 11/13/03 (mg/l)	MW-11D 3/11/04 (mg/l)
Color (APHA Units)	-	-	(units)	80	5 U	5 U	NS	5	NS	NS	5	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	36.8	3.6	6.8	5.2	4.4	4	3.7	2.9	3.8	3.3
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.5	0.14	0.481	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.23
Biochemical Oxygen Demand	-	-	(mg/l)	4	2	2 U	2 U	2 U	2 U	2 U	6	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.8	0.6	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	40	10 U	10 U	12.7	10 U	22	11.9	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	13.3	7.9	10.3	5.4	17.3	13.9	16.6	19	18.2	23.8
Hardness (as CaCO3)	-	-	(mg/l)	26	17	28	24	110	22	24	28	43	30
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.5	1.9	1.79	0.74	1.91	1.96	2.59	3.67	4.92	4.17
Phenols, total	0.001 ST	-	(mg/l)	0.0063	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	31.3	11.3	10.9	17.2	12	13.5	10.1	9.3	12.1	8.6
Total Organic Carbon	-	-	(mg/l)	5.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	124	61	84	60	109	69	88	126	103	194
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.58	0.1 U	0.46	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.11	0.1 U

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE DATE UNITS	MW-11D 5/21/04 (mg/l)	MW-11D 8/24/04 (mg/l)	MW-11D 11/11/04 (mg/l)	MW-11D 2/24/05 (mg/l)	MW-11D 5/26/05 (mg/l)	MW-11D 8/25/05 (mg/l)	MW-11D 11/28/05 (mg/l)	MW-11D 2/27/06 (mg/l)	MW-11D 5/19/06 (mg/l)	MW-11D 8/11/06 (mg/l)
Color (APHA Units)	-	-	(units)	20	NS	NS	5	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	26.4	19.2	7.8	7.8	5.8	5.9	4.2	17.8	8	4.9
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.16	0.1 U	0.32	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	2.3	0.8	0.9	0.8	0.9	0.5 U	0.5 U	0.6
Chemical Oxygen Demand	-	-	(mg/l)	45.4	10 U	10 U	19.3	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	18.3	16.9	19.3	26.7	25	20.1	21.2	21.1	21.1	22.6
Hardness (as CaCO3)	-	-	(mg/l)	120	24	42	40	46	40	34	40	35	44
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	4.32	4.4	4.65	3.9	3.44	3.42	3.86	2.14	1.82	2.22
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	13.7	13	10.3	10.7	11.1	14.4	17.1	22.5	20.9	20.6
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	70	274	144	160	153	219	120	133	117	17
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.18	0.65	0.1 U	0.27	0.1 U	0.1 U	0.15	1.75	0.1 U	1.76

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-11D 11/29/06 (mg/l)	MW-11D 2/28/07 (mg/l)	MW-11D 6/1/07 (mg/l)	MW-11D 8/17/07 (mg/l)	MW-11D 11/14/07 (mg/l)	MW-11D (mg/l)	MW-11D (mg/l)	MW-11D (mg/l)
Color (APHA Units)	-	-	(units)	10	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	8.6	9.0	20.6	10.0	8			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	0.7	0.5 U	0.5 U	0.5 U	.05 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	30.7	10 U	10.5			
Chloride	250 ST	16887-00-6	(mg/l)	19.6	25.0	21.9	22.9	23.1			
Hardness (as CaCO3)	-	-	(mg/l)	40.0	44.0	52.0	50.0	42.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	3.43	5.86	5.38	6.05	6.57			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	20.9	21.7	27.8	21.8	18.7			
Total Organic Carbon	-	-	(mg/l)	1 U	1.0 U	1.0 U	1.0 U	1.0 U			
Total Dissolved Solids	-	-	(mg/l)	133	130	155	166	169			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.46	0.63	1.07	0.1 U	0.2			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-111 10/31/97 (mg/l)	MW-111 12/13/2000 (mg/l)	MW-111 02/07/2001 (mg/l)	MW-111 8/22/02 (mg/l)	MW-111 11/21/02 (mg/l)	MW-111 3/16/03 (mg/l)	MW-111 6/4/03 (mg/l)	MW-111 8/21/03 (mg/l)	MW-111 11/13/03 (mg/l)	MW-111 3/1/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5 U	NS	5 U	NS	NS	5	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	27.6	34.2	27.4	14.4	28.2	58	57.6	32.9	28.6	48
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.99	1.1	0.91	0.1 U	0.1 U	1.15	0.1 U	0.1 U	0.1 U	1.15
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2	2 U	3	4	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.8	0.8	0.5 U	0.5 U	0.7
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	12.7	10 U	16.7	10 U	10 U	10 U	15.6
Chloride	250 ST	16887-00-6	(mg/l)	40.4	17.3	17.5	7	24.3	7.7	14.3	19.7	11.7	22.7
Hardness (as CaCO3)	-	-	(mg/l)	54	34	40	40	180	56	62	40	36	48
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.13	0.42	1.8	3.07	1.85	0.1 U	1.03	1.01	0.96	0.53
Phenols, total	0.001 ST	-	(mg/l)	0.001	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	14.9	6.8	7	5	7.9	10	5.8	10.7	12.9	5 U
Total Organic Carbon	-	-	(mg/l)	1.6	1.3	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	96	42	63	58	152	109	84	103	78	110
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.5	1.2	0.79	0.1	0.19	0.99	1.18	0.8	0.36	1.11

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-111 5/21/04 (mg/l)	MW-111 8/24/04 (mg/l)	MW-111 11/11/04 (mg/l)	MW-111 2/24/05 (mg/l)	MW-111 5/26/05 (mg/l)	MW-111 8/25/05 (mg/l)	MW-111 11/28/05 (mg/l)	MW-111 2/27/06 (mg/l)	MW-111 5/19/06 (mg/l)	MW-111 8/11/06 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	5	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	37.8	28.8	27.8	19.4	32.4	24	26.1	33.4	19.2	17.3
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.19	0.1 U	0.15	0.1 U	1.08	0.79	0.58	0.73	0.1 U	0.13
Biochemical Oxygen Demand	-	-	(mg/l)	4	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	1.7	0.5 U	1.7	0.5 U	0.6	1.5	1.8	0.9	1	0.6
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U	10 U	16.8	13.5	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	14.1	10	15.3	17.5	15.1	9.6	11.6	8.1	9	7.3
Hardness (as CaCO3)	-	-	(mg/l)	150	25	45	52	52	45	40	48	31	30
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.33	1.85	0.74	1.16	1.5	2.11	0.89	0.21	1.31	1.14
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	0.5 U	11	10.7	13.4	14.4	15.4	12.2	28.2	13.6	11.7
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	38	149	83	92	107	155	87	110	81	67
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.93	0.88	0.79	0.12	0.85	0.77	0.7	0.82	0.52	0.56

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-111 11/29/06 (mg/l)	MW-111 2/28/07 (mg/l)	MW-111 6/1/07 (mg/l)	MW-111 8/16/07 (mg/l)	MW-111 11/14/07 (mg/l)	MW-111 (mg/l)	MW-111 (mg/l)	MW-111 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	11.8	5.8	8.8	4.4	4.9			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.29	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	1.5	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	4.9	5.3	6.3	5.2	4.8			
Hardness (as CaCO3)	-	-	(mg/l)	16.0	12.0	19.0	18.0	24.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.78	0.70	1.12	0.53	0.62			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	11.0	13.1	14.5	16.9	18.9			
Total Organic Carbon	-	-	(mg/l)	1 U	1.0 U	1.0 U	1.0 U	1.0 U			
Total Dissolved Solids	-	-	(mg/l)	58	47	53	71	78			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.28	0.62	0.72	0.1 U	0.10 U			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11S (mg/l)	MW-11S 02/07/2001 (mg/l)	MW-11S 8/22/02 (mg/l)	MW-11S 11/21/02 (mg/l)	MW-11S 3/16/03 (mg/l)	MW-11S 6/4/03 (mg/l)	MW-11S 8/21/03 (mg/l)	MW-11S 11/13/03 (mg/l)	MW-11S 3/1/04 (mg/l)
Color (APHA Units)	-	-	(units)	100	5 U	NS	5	NS	NS	10	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	127	134	91.2	133	106	125	174	206	160
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1	1.3	1.16	0.1 U	0.58	0.1 U	0.1 U	0.1 U	0.35
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	6	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5	0.8	0.5 U	0.5	0.5 U	0.5 U	1.2
Chemical Oxygen Demand	-	-	(mg/l)	22	10 U	11	10 U	19.3	19.2	10 U	21.6	20.5
Chloride	250 ST	16887-00-6	(mg/l)	65.1	50.7	35.1	21.3	23	97.7	139	96.6	86.4
Hardness (as CaCO3)	-	-	(mg/l)	120	210	120	230	156	250	270	290	220
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.28	0.21	2.6	2.25	1.6	1.65	1.31	1.52	1.59
Phenols, total	0.001 ST	-	(mg/l)	0.002	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	42.1	28.6	29.2	41	64.8	80.5	68	76.4	45.5
Total Organic Carbon	-	-	(mg/l)	3.7	4.6	3.53	2.8	4	3.8	7.2	5	4
Total Dissolved Solids	-	-	(mg/l)	261	253	179	326	250	423	560	465	392
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.2	1.5	4.53	0.18	0.77	0.26	0.34	0.31	0.32

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11S (mg/l)	MW-11S 11/11/04 (mg/l)	MW-11S 2/24/05 (mg/l)	MW-11S 5/26/05 (mg/l)	MW-11S 8/25/05 (mg/l)	MW-11S 11/28/05 (mg/l)	MW-11S 2/27/06 (mg/l)	MW-11S 5/19/06 (mg/l)	MW-11S 8/11/06 (mg/l)
Color (APHA Units)	-	-	(units)	5	NS	5	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	113	117	96	116	120	134	140	134	148
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.81	0.1 U	2.8	3.46	2.35	0.72	0.42	0.1 U	1.12
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2
Bromide	2 GV	24959-67-9	(mg/l)	1.8	0.6	2.0	0.5	1.1	1.2	0.5	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	25.5	10 U	11.8	10 U	16.8	34.3	13.5	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	79.6	73.7	76.9	88.5	65.4	87.6	82.8	52.9	105
Hardness (as CaCO3)	-	-	(mg/l)	450	208	220	220	200	300	215	190	205
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.04	1.15	1.21	1.07	1.2	1.71	1.07	0.48	0.81
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	61	55.8	45.8	50.3	72.5	93.5	74.5	46	59
Total Organic Carbon	-	-	(mg/l)	4.2	3.8	3.7	3.7	4.3	5.5	4.3	3.1	5.5
Total Dissolved Solids	-	-	(mg/l)	300	532	339	366	442	330	413	308	453
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	1.65	1.27	2.69	3.54	2.31	1.7	0.85	0.58	1.09

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-11S 11/29/06 (mg/l)	MW-11S 2/23/07 (mg/l)	MW-11S 6/1/07 (mg/l)	MW-11S 8/16/07 (mg/l)	MW-11S 11/14/07 (mg/l)	MW-11S (mg/l)	MW-11S (mg/l)	MW-11S (mg/l)	MW-11S (mg/l)
Color (APHA Units)	-	-	(units)	5 U	30	NA	NA	NA				
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	140	136	136	151	151				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	1.64	0.10 U	0.10 U	2.06	1.19				
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	4	4	2 U	2 U				
Bromide	2 GV	24959-67-9	(mg/l)	1.4	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	16.0	51.0	89	23.1	28.2				
Chloride	250 ST	16887-00-6	(mg/l)	46.6	39.8	53.9	62.8	60.3				
Hardness (as CaCO3)	-	-	(mg/l)	130	140	180	160	128				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.59	0.41	1.09	0.93	0.63				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	31.4	27.7	51.1	63.4	47.8				
Total Organic Carbon	-	-	(mg/l)	3.4	3.8	8.0	6.6	5.9				
Total Dissolved Solids	-	-	(mg/l)	277	276	322	373	345				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	2.04	3.82	4.8	3.36	2.7				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS :	MW-12D 10/31/97 (mg/l)	MW-12D 12/08/2000 (mg/l)	MW-12D 02/07/2001 (mg/l)	MW-12D 8/22/02 (mg/l)	MW-12D 11/21/02 (mg/l)	MW-12D 3/6/03 (mg/l)	MW-12D 6/4/03 (mg/l)	MW-12D 8/21/03 (mg/l)	MW-12D 11/3/03 (mg/l)	MW-12D 3/1/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5 U	NS	5	NS	NS	5	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	19.3	7.3	7.8	6.7	6.8	8.4	7.9	8.1	7.4	6.7
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.02 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	3	7	4	2 U	2 U	2 U	4	7	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	15 U	10 U	10 U	15.1	10 U	10 U	10 U	10 U	11.9	10 U
Chloride	250 ST	16887-00-6	(mg/l)	11.7	4.7	5.71	3.1	4.3	5.6	8.9	6.2	4.2	4.8
Hardness (as CaCO3)	-	-	(mg/l)	34	15	28	16	36	64	34	36	33	22
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.32	0.38	0.31	0.13	0.24	0.58	0.66	0.63	0.54	0.75
Phenols, total	0.001 ST	-	(mg/l)	0.002	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	19.5	20.1	12.8	6.9	11.9	17.1	15.6	16.6	13.5	8.3
Total Organic Carbon	-	-	(mg/l)	0.5 U	2.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	(mg/l)	45	77	380	37	69	78	58	88	50	10 U
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.2 U	0.1 U	8.54	0.16	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS :	MW-12D 5/21/04 (mg/l)	MW-12D 8/24/04 (mg/l)	MW-12D 11/11/04 (mg/l)	MW-12D 2/24/05 (mg/l)	MW-12D 5/26/05 (mg/l)	MW-12D 8/25/05 (mg/l)	MW-12D 11/28/05 (mg/l)	MW-12D 2/27/06 (mg/l)	MW-12D 5/19/06 (mg/l)	MW-12D 8/11/06 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	6.8	7	7.4	7.1	6.7	6.9	7.4	10.4	11.2	19.6
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.1 U	0.1 U	0.1 U	0.1 U	0.13	0.11	0.1 U	0.13	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.6	0.7	0.7	1	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	3.6	4.3	4.0	6.1	4.5	4.9	5.8	5.4	5.5	5
Hardness (as CaCO3)	-	-	(mg/l)	36	5 U	18	18	19	15	20	22	21	26
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.29	0.30	0.26	0.16	0.13	0.19	0.4	0.33	0.25	0.25
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	11.3	11.7	10.5	11.1	9.5	10.8	11	11.7	13.5	34
Total Organic Carbon	-	-	(mg/l)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1
Total Dissolved Solids	-	-	(mg/l)	25	113	52	58	49	77	75	72	59	70
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.1 U	0.97	0.1 U	0.26	0.1 U	0.1 U	0.9	0.1 U	0.1 U	0.1 U

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-12D 11/29/06 (mg/l)	MW-12D 2/23/07 (mg/l)	MW-12D 6/1/07 (mg/l)	MW-12D 8/16/07 (mg/l)	MW-12D 11/14/07 (mg/l)	MW-12D (mg/l)	MW-12D (mg/l)	MW-12D (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	1 U	23.9	12.3	8.8	7.8			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.10	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	6	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	1.6	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	13.5	23.1	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	5.5	6.9	7.7	10.6	20.5			
Hardness (as CaCO3)	-	-	(mg/l)	26.0	50.0	32.0	40.0	52.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.67	0.70	1.84	2.3	2.25			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	14.8	16.4	18.8	22.0	25.8			
Total Organic Carbon	-	-	(mg/l)	1 U	1.0 U	1.0 U	1.0 U	1.3			
Total Dissolved Solids	-	-	(mg/l)	71	70	69	85	128			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.14	0.95	0.55	0.1 U	0.10 U			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE :		MW-121 12/07/2000 (mg/l)	MW-121 02/08/2001 (mg/l)	MW-121 8/22/02 (mg/l)	MW-121 11/21/02 (mg/l)	MW-121 3/6/03 (mg/l)	MW-121 6/4/03 (mg/l)	MW-121 8/21/03 (mg/l)	MW-121 11/13/03 (mg/l)	MW-121 3/1/04 (mg/l)
			DATE :	UNITS:									
Color (APHA Units)	-	-	10/31/97	(units)	5 U	5 U	NS	10	NS	NS	5	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	10/31/97	(mg/l)	10.5	31.8	2.8	6.8	4.4	7.1	3.1	4.4	4.2
Ammonia (as N)	2 ST	7664-41-7	10/31/97	(mg/l)	0.51	0.61	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14
Biochemical Oxygen Demand	-	-	10/31/97	(mg/l)	2 U	6	2 U	2 U	2 U	2 U	6	2 U	2 U
Bromide	2 GV	24959-67-9	10/31/97	(mg/l)	0.5 U	0.5 U	0.5 U	1.1	1	0.5 U	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	10/31/97	(mg/l)	16	10 U	10 U	39.6	14	10 U	10 U	10 U	15.6
Chloride	250 ST	16887-00-6	10/31/97	(mg/l)	17.5	14.9	4.5	8.4	4.6	13.1	7.9	4.8	5.5
Hardness (as CaCO3)	-	-	10/31/97	(mg/l)	54	52	16	1900	32	32	20	26	24
Nitrate (as N)	10 ST	14797-55-8	10/31/97	(mg/l)	4.7	0.73	1.1	0.93	1.54	0.53	0.21	1.3	0.7
Phenols, total	0.001 ST	-	10/31/97	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	10/31/97	(mg/l)	43.1	48.3	10	10.4	11.6	11.3	8.6	9.8	6.9
Total Organic Carbon	-	-	10/31/97	(mg/l)	3.6	1.2	0.0010 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Dissolved Solids	-	-	10/31/97	(mg/l)	106	143	39	79	55	62	49	40	14
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	10/31/97	(mg/l)	0.46	0.84	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.13

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE :		MW-121 8/24/04 (mg/l)	MW-121 11/11/04 (mg/l)	MW-121 2/24/05 (mg/l)	MW-121 5/26/05 (mg/l)	MW-121 8/25/05 (mg/l)	MW-121 11/28/05 (mg/l)	MW-121 2/27/06 (mg/l)	MW-121 5/19/06 (mg/l)	MW-121 8/11/06 (mg/l)
			DATE :	UNITS:									
Color (APHA Units)	-	-	5/21/04	(units)	5 U	NS	5	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	5/21/04	(mg/l)	3.5	5.6	29.6	4.3	5.4	14.4	29.4	15.7	7.9
Ammonia (as N)	2 ST	7664-41-7	5/21/04	(mg/l)	0.1 U	0.1 U	0.1 U	0.29	0.1 U	1.11	0.49	0.15	0.56
Biochemical Oxygen Demand	-	-	5/21/04	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3	3
Bromide	2 GV	24959-67-9	5/21/04	(mg/l)	0.5 U	0.6	0.7	0.5 U	0.5 U	1.3	0.5 U	0.5	0.5 U
Chemical Oxygen Demand	-	-	5/21/04	(mg/l)	10 U	10 U	10 U	14.3	10 U	10 U	13.5	10 U	10 U
Chloride	250 ST	16887-00-6	5/21/04	(mg/l)	4.3	12.5	45.5	10.5	18.5	29.2	27	26.2	15.9
Hardness (as CaCO3)	-	-	5/21/04	(mg/l)	22	10	66	18	22	49	80	70	40
Nitrate (as N)	10 ST	14797-55-8	5/21/04	(mg/l)	0.52	1.65	0.72	0.52	0.86	0.26	0.77	3.73	1.41
Phenols, total	0.001 ST	-	5/21/04	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	5/21/04	(mg/l)	8.8	7.6	8.7	9	7.5	29.6	35	51.8	35.4
Total Organic Carbon	-	-	5/21/04	(mg/l)	1 U	1 U	1.4	1 U	1 U	1.9	3.3	1.5	1.3
Total Dissolved Solids	-	-	5/21/04	(mg/l)	47	152	136	50	101	127	153	155	112
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	5/21/04	(mg/l)	0.1 U	0.56	0.53	0.24	0.36	2.13	0.69	4.15	2.89

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-121 11/29/06 (mg/l)	MW-121 2/23/07 (mg/l)	MW-121 6/1/07 (mg/l)	MW-121 8/16/07 (mg/l)	MW-121 11/14/07 (mg/l)	MW-121 (mg/l)	MW-121 (mg/l)	MW-121 (mg/l)	MW-121 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5	NA	NA	NA				
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	21.8	58.8	4	24.6	17.8				
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	3.71	1.02	0.10 U	2.42	0.64				
Biochemical Oxygen Demand	-	-	(mg/l)	5	50	2 U	2 U	2 U				
Bromide	2 GV	24959-67-9	(mg/l)	1.0	0.5 U	0.5 U	0.5 U	0.5 U				
Chemical Oxygen Demand	-	-	(mg/l)	10 U	78.8	10 U	10 U	10 U				
Chloride	250 ST	16887-00-6	(mg/l)	12.9	21.7	12.6	14.8	18.1				
Hardness (as CaCO3)	-	-	(mg/l)	24.0	84.0	14.0	13.0	22.0				
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	2.61	0.11	1.46	1.03	2.14				
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U				
Sulfate	250 ST	14808-79-8	(mg/l)	26.4	31.1	20.8	8.0	5.0 U				
Total Organic Carbon	-	-	(mg/l)	1.1	21.3	1.1	1.0 U	1.0 U				
Total Dissolved Solids	-	-	(mg/l)	97	124	74	62	54				
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	7.67	3.99	3.95	3.11	3.32				

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value

J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-12S 10/31/97 (mg/l)	MW-12S 12/07/2000 (mg/l)	MW-12S 02/05/2001 (mg/l)	MW-12S 8/22/02 (mg/l)	MW-12S 11/21/02 (mg/l)	MW-12S 3/6/03 (mg/l)	MW-12S 6/4/03 (mg/l)	MW-12S 8/21/03 (mg/l)	MW-12S 11/13/03 (mg/l)	MW-12S 3/1/04 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	5 U	5	NS	5	NS	NS	5	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	102	104	98	113	111	77.8	74.3	141	150	118
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.11	0.02 U	0.07 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	3	2	2 U	2 U	2 U	2 U	2 U	4	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.8	0.5 U	0.5	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	16	10 U	10 U	10 U	10 U	16.7	21.6	10 U	10 U	13.1
Chloride	250 ST	16887-00-6	(mg/l)	21	16	24	15.7	17.7	11.3	25.6	11.2	25.8	52.2
Hardness (as CaCO3)	-	-	(mg/l)	90	96	100	140	108	108	82	110	220	120
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	0.75	0.67	0.4	2.21	1.14	0.89	0.58	1.54	1.89	1.18
Phenols, total	0.001 ST	-	(mg/l)	0.0010 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	32.8	36.4	13.4	37.5	27.6	32.1	23.3	32	38.4	24.4
Total Organic Carbon	-	-	(mg/l)	2.3	1.7	2.2	3.3	1.7	1.9	1.6	1.8	2	1.6
Total Dissolved Solids	-	-	(mg/l)	170	175	250	185	290	352	151	241	265	296
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.21	0.2 U	0.12	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.22	0.13

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-12S 5/21/04 (mg/l)	MW-12S 8/24/04 (mg/l)	MW-12S 11/11/04 (mg/l)	MW-12S 2/24/05 (mg/l)	MW-12S 5/26/05 (mg/l)	MW-12S 8/25/05 (mg/l)	MW-12S 11/28/05 (mg/l)	MW-12S 2/27/06 (mg/l)	MW-12S 5/19/06 (mg/l)	MW-12S 8/11/06 (mg/l)
Color (APHA Units)	-	-	(units)	5 U	NS	NS	5 U	NS	NS	NS	NS	NS	NS
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	119	130	74	97.1	98	105	65.2	76.4	70.8	59
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.13	0.1 U	0.1 U	0.11	0.12	0.19	1.24	0.46	0.1 U	0.1 U
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	2 GV	24959-67-9	(mg/l)	0.5 U	0.7	1.8	0.5	0.5 U	1	1.4	0.5 U	0.5 U	0.5 U
Chemical Oxygen Demand	-	-	(mg/l)	10 U	10 U	10 U	21.8	29.3	10 U	10 U	10 U	10 U	10 U
Chloride	250 ST	16887-00-6	(mg/l)	31.6	31.6	19.7	245	42.2	45.5	48.9	56.6	24	20.5
Hardness (as CaCO3)	-	-	(mg/l)	320	88	94	172	128	98	90	105	66	44
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	1.24	1.76	0.52	0.83	1.06	1.18	1.86	1.79	1.67	2.12
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250 ST	14808-79-8	(mg/l)	29.5	54.8	17.7	39.1	28.4	32.6	14.9	21.7	26.8	20.1
Total Organic Carbon	-	-	(mg/l)	1.7	1.8	2.6	1.7	2.7	2.8	1.1	1.8	1.5	1.2
Total Dissolved Solids	-	-	(mg/l)	184	474	170	568	216	382	212	247	181	163
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.18	0.17	0.1 U	0.19	0.21	0.2	1.54	0.65	0.1 U	0.12

NOTES:
 NA: Not analyzed
 U: Analyzed for but not detected, value shown is instrument detection limit
 : Concentration exceeds Standard/Guidance Value
 J: Estimated value

Appendix B-1

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 LEACHATE INDICATORS

CONSTITUENT	NYSDEC Class GA Groundwater Standards and Guidance Values	CAS #	SITE : DATE : UNITS:	MW-12S 11/29/06 (mg/l)	MW-12S 2/23/07 (mg/l)	MW-12S 6/1/07 (mg/l)	MW-12S 8/16/07 (mg/l)	MW-12S 11/14/07 (mg/l)	MW-12S (mg/l)	MW-12S (mg/l)	MW-12S (mg/l)
Color (APHA Units)	-	-	(units)	5 U	20	NA	NA	NA			
Alkalinity (as CaCO3)	-	471-34-1	(mg/l)	73.0	71.2	60.6	60.8	67.2			
Ammonia (as N)	2 ST	7664-41-7	(mg/l)	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U			
Biochemical Oxygen Demand	-	-	(mg/l)	2 U	6.0	2 U	2 U	2 U			
Bromide	2 GV	24959-67-9	(mg/l)	1.1	0.5 U	0.5 U	0.5 U	0.5 U			
Chemical Oxygen Demand	-	-	(mg/l)	10 U	40.9	10 U	10 U	10 U			
Chloride	250 ST	16887-00-6	(mg/l)	25.2	25.5	27.7	17.8	23.9			
Hardness (as CaCO3)	-	-	(mg/l)	110	80.0	72.0	64.0	80.0			
Nitrate (as N)	10 ST	14797-55-8	(mg/l)	2.33	2.30	2.32	1.71	2.03			
Phenols, total	0.001 ST	-	(mg/l)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
Sulfate	250 ST	14808-79-8	(mg/l)	22.8	25.0	21.6	33.2	29.9			
Total Organic Carbon	-	-	(mg/l)	1.5	1.4	2.0	1.5	1.1			
Total Dissolved Solids	-	-	(mg/l)	189	183	159	167	193			
Total Kjeldahl Nitrogen (as N)	-	7727-37-9	(mg/l)	0.16	0.75	0.69	0.1 U	0.10 U			

NOTES:

NA: Not analyzed

U: Analyzed for but not detected, value shown is instrument detection limit

: Concentration exceeds Standard/Guidance Value
 J: Estimated value

APPENDIX B-2

Inorganic Parameters



Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01D 10/24/1997 (ug/l)	MW-01D 11/30/2000 (ug/l)	MW-01D 1/30/2001 (ug/l)	MW-01D 8/21/2002 (ug/l)	MW-01D 11/20/2002 (ug/l)	MW-01D 3/5/2003 (ug/l)	MW-01D 6/3/2003 (ug/l)	MW-01D 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	105	59.6 B	79.6 B	NA	131 B	NA	NA	39.8 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	4.4 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	111	124 B	87.6	NA	93	NA	NA	22.4 B
Beryllium	3 GV	7440-41-7	ug/l	0.13	0.1 U	0.21	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	102	161	NA	113	NA	NA	139
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.11 B	0.5 U	0.81 B	0.10 B	0.30 U
Calcium	-	7440-70-2	ug/l	35,300	19500	15200	26,400	24,400	21,100	15,800	5,650
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.53	3.5 U	0.6 U	NA	3.6 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	1.3	2.1 B	1.7 U	NA	5 B	NA	NA	5.0 B
Copper	200 ST	7440-50-8	ug/l	1.9	2 B	2.1	NA	7 B	NA	NA	2.3 B
Iron	300 ST	7439-89-6	ug/l	110	32 B	34.2	205	301	301	120	63.1 B
Lead	25 ST	7439-92-1	ug/l	1.3	1.4 U	1.1 U	0.8 U	1.4 U	3.2	1.7 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	10,700	6010	4800	9,680	8,130	7,530	5,740	1,710 B
Manganese	300 ST	7439-96-5	ug/l	132	9.9 B	7.3	34.3	28.6	67.5	6.8 B	3.6 B
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.10 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	2.2	1.9 U	1.4 U	NA	7.5 B	NA	NA	6.0 B
Potassium	-	7440-09-7	ug/l	6,780	10,400	9,240	7,740	20,500	10,700	6,830	2,390 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.77 B	1.6 U	NA	1 U	NA	NA	1.0 U
Sodium	20,000 ST	7440-23-5	ug/l	61,000	490,000	390,000	445,000	327,000	346,000	404,000	156,000
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	3.0 B
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	1.4 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	39	3.8 B	5.1	NA	190	NA	NA	33.2
Cyanide	200 ST	0057-12-5	ug/l	17	17	20.4	NA	30.4	NA	NA	29
Iron + Manganese	500 ST	-	ug/l	242	41.9	41.5	239.3	329.6	368.5	126.8	66.7

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01D 11/10/2003 (ug/l)	MW-01D 2/26/2004 (ug/l)	MW-01D 5/20/2004 (ug/l)	MW-01D 8/19/2004 (ug/l)	MW-01D 11/8/2004 (ug/l)	MW-01D 2/28/2005 (ug/l)	MW-01D 5/25/2005 (ug/l)	MW-01D 8/24/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	52.5 B	NA	NA	143 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	123 B	NA	NA	284	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	173 B	NA	NA	158	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.3 U	0.30 U	0.23 U	0.23 U	0.74 B	0.65 U
Calcium	-	7440-70-2	ug/l	1,420 B	19,500	27,800	61,300	62,800	57,100	49,800	38,500
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.63 B	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	7.2 B	NA	NA	12.4 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3.6 B	NA	NA	1.1 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	119	79.6 B	96.9 B	61.7 B	22.3 B	59.1 B	64.9 B	192
Lead	25 ST	7439-92-1	ug/l	2.5 B	1.6 U	1.2 U	1.2 U	1.1 U	1.1 U	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	504 B	6,270	9,620	17,700	16,300	12,700	10,200	8,020
Manganese	300 ST	7439-96-5	ug/l	3.6 B	9.3 B	17.6	22.5	21	23.4	21.7	28.5
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	5.1 B	NA	NA	17.4 B	NA	NA
Potassium	-	7440-09-7	ug/l	1,380 B	5,480	7,230	12,200	13,700	15,300	9,870	8,800
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	3 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.86 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	103,000	416,000	448,000	569,000	693,000	826,000	711,000	635,000
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	3.7 B	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	32.4	NA	NA	50.9	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	18	NA	NA
Iron + Manganese	500 ST*	-	ug/l	122.6	88.9	114.5	84.2	43.3	82.5	86.6	220.5

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01D 11/28/2005 (ug/l)	MW-01D 2/24/2006 (ug/l)	MW-01D 5/17/2006 (ug/l)	MW-01D 8/9/2006 (ug/l)	MW-01D 11/28/2006 (ug/l)	MW-01D 2/21/2007 (ug/l)	MW-01D 5/25/2007 (ug/l)	MW-01D 8/17/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	137 B	1,290	121 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.9 B	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	260	114 B	284	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.50 B	0.17 U	0.71 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	125 B	85.0 B	166	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.46 B	0.34 U	0.94 B	0.78 B	1.2 B	0.39 B	0.80 B
Calcium	-	7440-70-2	ug/l	35,900	35,800	36,100	37,700	53,100	33,800	58,800	51,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 B	2.3 B	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	29.1 B	14.5 B	21.6 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	5.0 B	11.2 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	53.9 B	83.5 B	58.0 B	74.2 B	147	1,470	53.1 B	74.8 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	1.9 U	1.9 U	1.5 U	12.7	1.1 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	7,250	7,570	7,600	8,340	14,000	8,340	15,800	12,100
Manganese	300 ST	7439-96-5	ug/l	31.2	47.9	65.8	105	310	118	882	1,570
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	14.4 B	6.9 B	15.8 B	NA
Potassium	-	7440-09-7	ug/l	7,840	11,000	8,880	10,600	13,400	23,800	12,700	10,400
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	2.0 B	3.4 B	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.71 B	0.40 B	1.3 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	727,000	750,000	158,000	791,000	965,000	457,000	950,000	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.4 B	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	3.1 B	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	59.2	346	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	65.5	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	85.1	131.4	123.8	179.2	457	1,588	935.1	1,644.8

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01D 11/9/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA
Antimony	3 GV	7440-36-0	ug/l	NA
Arsenic	25 ST	7440-38-2	ug/l	NA
Barium	1,000 ST	7440-39-3	ug/l	NA
Beryllium	3 GV	7440-41-7	ug/l	NA
Boron	1,000 ST	7440-42-8	ug/l	NA
Cadmium	5 ST	7440-43-9	ug/l	2.0 B
Calcium	-	7440-70-2	ug/l	5,160
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA
Cobalt	-	7440-48-4	ug/l	NA
Copper	200 ST	7440-50-8	ug/l	NA
Iron	300 ST	7439-89-6	ug/l	1,280
Lead	25 ST	7439-92-1	ug/l	4.9 J
Magnesium	35,000 GV	7439-95-4	ug/l	1,320 B
Manganese	300 ST	7439-96-5	ug/l	106
Mercury	0.7 ST	7439-97-6	ug/l	NA
Nickel	100 ST	7440-02-0	ug/l	NA
Potassium	-	7440-09-7	ug/l	33,400 J
Selenium	10 ST	7782-49-2	ug/l	NA
Silver	50 ST	7440-22-4	ug/l	NA
Sodium	20,000 ST	7440-23-5	ug/l	23,700
Thallium	0.5 GV	7440-28-0	ug/l	NA
Vanadium	-	7440-62-2	ug/l	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA
Cyanide	200 ST	0057-12-5	ug/l	NA
Iron + Manganese	500 ST*	-	ug/l	1,386

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-011 10/24/1997 (ug/l)	MW-011 11/30/2000 (ug/l)	MW-011 1/30/2001 (ug/l)	MW-011 8/21/2002 (ug/l)	MW-011 11/20/2002 (ug/l)	MW-011 3/5/2003 (ug/l)	MW-011 6/3/2003 (ug/l)	MW-011 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	60.8	12.5 B	27.7	NA	19 B	NA	NA	13.9 U
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	93.2	4.3 B	7.8	NA	26.2 B	NA	NA	38.9 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.1 U	NA	0.40 U	NA	NA	0.2 U
Boron	1,000 ST	7440-42-8	ug/l	NA	65.8 B	94.3	NA	68.1 B	NA	NA	176
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.21 B	0.50 U	0.16 B	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	7,510	723 B	1,350	4,840 B	10,200	5,850	2,520 B	13,200
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.4 U	3.5 U	0.6 U	NA	0.80 U	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	2.7	2.2 B	1.7 U	NA	5.7 B	NA	NA	5.8 B
Copper	200 ST	7440-50-8	ug/l	0.93	2.1 B	1.7	NA	2.0 B	NA	NA	1.1 U
Iron	300 ST	7439-89-6	ug/l	80.1	13.3 B	22.8	242	78.8 B	105	45.2 B	23.6 U
Lead	25 ST	7439-92-1	ug/l	1	1.4 U	1.1 U	1.3 B	1.4 U	1.5 U	1.6 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,720	154 B	266	904 B	1,910 B	1,160 B	439	2,490 B
Manganese	300 ST	7439-96-5	ug/l	286	1.3 B	3.9	32.4	24	16.5	7.4 B	24.4
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.10 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	5.1	1.9 U	1.4 U	NA	8.2 B	NA	NA	6.1 B
Potassium	-	7440-09-7	ug/l	4,250	951 B	1,510	1,370 B	1,770 B	1,970 B	1,250 B	2,700 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.5 U	2.6	NA	1 U	NA	NA	1.0 U
Sodium	20,000 ST	7440-23-5	ug/l	120,000	50,600	68,000	16,100	43,000	64,400	37,000	83,500
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	3.4 B
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7	NA	0.60 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	29.5	2.2 U	8.6	NA	27.6	NA	NA	3.4 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	366.1	14.6	26.7	274.4	102.8	121.5	52.6	48

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)	MW-011 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.30 U	0.20 U	0.3 U	0.30 U	0.23 U	0.35 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	25,100	17,300	2720 B	6,790	5,700	13,000	10,500	7,890
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300 ST	7439-89-6	ug/l	44.1 B	31.6 B	82.6 B	48.9 B	30.6 B	99.4 B	37.2 B	43.4 B
Lead	25 ST	7439-92-1	ug/l	1.2 B	1.6 U	1.2 U	1.2 U	1.1 U	1.6 B	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	4,750 B	3,560 B	559 B	1,710 B	1,320 B	3,010 B	2,430 B	1,860 B
Manganese	300 ST	7439-96-5	ug/l	71.2	70.6	16	51.6	13.6	33.3	63.2	147
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	7.4 B	NA	NA	6.4 B	NA	NA
Potassium	-	7440-09-7	ug/l	3040 B	3,860	1640 B	1900 B	2180 B	2700 B	2630 B	1950 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	3 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.85 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	49,900	74,100	33,800	27,400	29,700	20,900	13,700	12,000
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	13.3 B	NA	NA	89	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	115.3	102.2	98.6	100.5	44.2	132.7	100.4	190.4

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-011 11/28/2005 (ug/l)	MW-011 2/24/2006 (ug/l)	MW-011 5/17/2006 (ug/l)	MW-011 8/8/2006 (ug/l)	MW-011 11/28/2006 (ug/l)	MW-011 2/21/2007 (ug/l)	MW-011 5/25/2007 (ug/l)	MW-011 8/15/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	33.1 B	37.5 B	104 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	14.7 B	13.4 B	14.0 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.55 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	269 B	304 B	237	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.55 B	0.16 U	0.25 B
Calcium	-	7440-70-2	ug/l	7,910	7,190	7,260	13,500	13,200	13,400	13,100	12,300
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	0.50 U	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	7.1 B	8.9 B	5.2 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.2 B	10 B	U*	NA
Iron	300 ST	7439-89-6	ug/l	20 B	52.0 B	24.7 B	63.8 B	21.3 B	112	102	8.5 B
Lead	25 ST	7439-92-1	ug/l	1.6 B	1.3 U	1.9 U	1.9 U	1.5 U	1.9 B	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,870 B	1,740 B	1,580 B	2,910 B	3,100 B	3,280 B	3,160 B	3,390 B
Manganese	300 ST	7439-96-5	ug/l	133	135	217	474	484	121	81.9	456.5
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	6.9 B	8.1 B	3.9 B	NA
Potassium	-	7440-09-7	ug/l	2,160 B	2,730 B	1,960 B	2,980 B	2,170 B	2,840 B	2,280 B	1,960 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	15,500	18,100	17,500	10,400	12,400	13,900	12,400	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	47.7	48.3	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	153	187	231.7	537.8	595.3	233	183.9	456.5

NOTES:

- J: Estimated due to data validation criteria.
- [Redacted] Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-011 11/9/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.55 B					
Calcium	-	7440-70-2	ug/l	9,220					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	122					
Lead	25 ST	7439-92-1	ug/l	1.5 JB					
Magnesium	35,000 GV	7439-95-4	ug/l	2,800					
Manganese	300 ST	7439-96-5	ug/l	178					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	2,020 J					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	10,200					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	300					

NOTES:

- J: Estimated due to data validation criteria.
- [REDACTED] Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-01S 10/24/1997 (ug/l)	MW-01S 11/30/2000 (ug/l)	MW-01S 1/29/2001 (ug/l)	MW-01S 8/21/2002 (ug/l)	MW-01S 11/20/2002 (ug/l)	MW-01S 3/5/2003 (ug/l)	MW-01S 6/3/2003 (ug/l)	MW-01S 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	378	21 B	32.1	NA	101 B	NA	NA	30.7 B
Antimony	3 GV	7440-36-0	ug/l	3.0 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	2.5 ST	7440-38-2	ug/l	2.5	2.5 U	5.9	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	75.5	52.7 B	58	NA	67.4 B	NA	NA	66.9 B
Beryllium	3 GV	7440-41-7	ug/l	0.2	0.1 U	0.1 U	NA	0.40 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	622	553	NA	271	NA	NA	140
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.50 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	93,000	53,000	63,900	65,400	82,400	87,700	81,200	92,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	2.7	3.5 U	1.5	NA	1.1 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	2.5	2.8 B	4.8	NA	5.4 B	NA	NA	3.4 B
Copper	200 ST	7440-50-8	ug/l	3.2	1.5 U	2.4	NA	3.5 B	NA	NA	3.4 B
Iron	300 ST	7439-89-6	ug/l	6,710	4,360	4,870	13,300	14,000	13,100	7,870	3,040
Lead	25 ST	7439-92-1	ug/l	12.7	1.4 U	6.5	2.2 B	1.4 B	1.5 U	1.9 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	8,940	6010	7240	7,530	8,980	10,700	9,690	9,000
Manganese	300 ST	7439-96-5	ug/l	944	1,220	2,210	1,850	2,740	2,670	925	814
Mercury	0.7 ST	7439-97-6	ug/l	0.12	0.1 U	0.1 U	NA	0.10 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	1.2 B	NA	NA	4.6 B
Potassium	-	7440-09-7	ug/l	10,000	16,200	15,700	8,380	11,000	9,900	13,600	9,910
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	5.5 N	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.58 B	1.6 U	NA	1 U	NA	NA	1.0 U
Sodium	20,000 ST	7440-23-5	ug/l	51,400	35,400	33,700	29,400	38,100	49,600	82,800	43,500
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	3.0 B
Vanadium	-	7440-62-2	ug/l	1.2	0.7 U	1.7 U	NA	0.65 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	37	2.2 U	22.4	NA	40.6	NA	NA	66.9
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	7,654	5,580	7,080	15,150	16,740	15,770	8,795	3,854

NOTES:

J: Estimated due to data validation criteria.

█ Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	UNITS:	MW-01S 11/10/2003 (ug/l)	MW-01S 2/26/2004 (ug/l)	MW-01S 5/20/2004 (ug/l)	MW-01S 8/19/2004 (ug/l)	MW-01S 11/8/2004 (ug/l)	MW-01S 2/28/2005 (ug/l)	MW-01S 5/25/2005 (ug/l)	MW-01S 8/24/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	30.3 B	NA	NA	NA	67 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	46.1 B	NA	NA	NA	45.9 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	168 B	NA	NA	NA	152	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.30 U	0.20 U	0.3 U	0.30 U	0.30 U	0.23 U	0.34 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	133,000	93,100	83,800	88,500	79,900	77,400	77,400	80,100	66,500
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.8 B	NA	NA	NA	1.0 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	5.2 B	NA	NA	NA	4.8 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3.3 B	NA	NA	NA	1.5 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	4,890	5,300	7,980	6,480	7,210	7,210	5,980	7,570	6,070
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	1.3 B	1.2 U	1.1 U	1.1 U	1.1 U	3.2	2.4 B
Magnesium	35,000 GV	7439-95-4	ug/l	14,000	13,300	9,930	10,100	9,680	10,200	10,200	9,940	7,950
Manganese	300 ST	7439-96-5	ug/l	969	1,900	2,280	2,400	2,630	1,970	1,970	2,470	1,330
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	2.2 B	NA	NA	NA	1.8 B	NA	NA
Potassium	-	7440-09-7	ug/l	16600	8,580	8,960	10,700	11,400	10,100	10,100	10,800	9,530
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.6 B	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	90,400	62,800	45,700	47,200	64,700	58,500	73,400	73,400	60,600
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	40.7	NA	NA	NA	72	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	5,859	7,200	10,260	8,880	9,840	9,840	7,920	10,040	7,400

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01S 11/28/2005 (ug/l)	MW-01S 2/24/2006 (ug/l)	MW-01S 5/17/2006 (ug/l)	MW-01S 8/8/2006 (ug/l)	MW-01S 11/28/2006 (ug/l)	MW-01S 2/21/2007 (ug/l)	MW-01S 5/25/2007 (ug/l)	MW-01S 8/15/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	43.7 B	19.2 B	188 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	4.6 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	69.7 B	54.5 B	50.7 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.48 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	182 B	196 B	141	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.62 B	0.16 U	0.26 B
Calcium	-	7440-70-2	ug/l	58,500	98,000	91,700	73,000	100,000	99,800	78,900	68,300
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	0.50 U	0.88 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	5.6 B	2.6 B	5.3 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	4.2 B	4.4 B	U*	NA
Iron	300 ST	7439-89-6	ug/l	4,210	22,100	21,900	14,300	17,000	10,500	12,300	9,400
Lead	25 ST	7439-92-1	ug/l	3.5	1.3 U	4.6	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	6,370	17,500	12,300	11,100	17,000	19,800	12,900	9,480
Manganese	300 ST	7439-96-5	ug/l	1,620	2,600	2,290	1,470	2,060	1,150	1,270	896
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	9,250	12,500	13,800	9,630	15,700	13,800	12,800	14,900
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.47 B	0.65 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	41,600	67,700	79,600	63,000	75,700	74,900	81,400	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	50.3	31.4	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	25.7	NA	NA
Iron + Manganese	500 ST*	-	ug/l	5,830	24,700	23,190	15,170	19,060	11,650	13,570	10,296

NOTES:

- J: Estimated due to data validation criteria.
- [Redacted] Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-01S 11/9/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	63,100				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	5,240				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	9,110				
Manganese	300 ST	7439-96-5	ug/l	735				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	13,900 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	59,800				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	5,975				

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-02D 10/27/1997 (ug/l)	MW-02D 12/1/2000 (ug/l)	MW-02D 1/30/2001 (ug/l)	MW-02D 8/21/2002 (ug/l)	MW-02D 11/20/2002 (ug/l)	MW-02D 3/5/2003 (ug/l)	MW-02D 6/3/2003 (ug/l)	MW-02D 8/22/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	33.5	15.3 B	16	NA	21.9 B	NA	NA	22.3 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	6.9	5.2 B	5	NA	7.4 B	NA	NA	6.0 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.1 U	NA	0.40 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	5.1 B	32.9	NA	18 B	NA	NA	22.4 B
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.17 B	0.5 U	0.29 B	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	4,750	6,070	5,720	6,040	8,290	8,530	8,370	7,610
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.4 U	3.5 U	0.6 U	NA	1.6 B	NA	NA	1.2 B
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	0.7 U	1.5 U	1.5 U	NA	8.7 B	NA	NA	1.4 B
Iron	300 ST	7439-89-6	ug/l	33.2	4.2 B	12.3	139	89.1 B	119	52.6 B	96.2
Lead	25 ST	7439-92-1	ug/l	1 U	1.4 U	1.1 U	0.8 U	1.4 U	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,220	2,840 B	2,680	2,600 B	3,530 B	3,640 B	3,610 B	3,250 B
Manganese	300 ST	7439-96-5	ug/l	54.8	1.6 B	1.1 U	30.6	11 B	7.3 B	3.4 B	5.9 B
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	1.5 B	NA	NA	1.5 U
Potassium	-	7440-09-7	ug/l	636	740 B	806	741 B	710 B	768 B	895 B	736 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.5 U	1.6 U	NA	1 U	NA	NA	1.0 U
Sodium	20,000 ST	7440-23-5	ug/l	8,120	8,460	7,560	6,780	8,170	8,210	8,650	7,640
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	3.0 B
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.6 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	27.5	3.6 B	5.3	NA	57.8	NA	NA	9.9 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	88	5.8	12.3	169.6	100.1	126.3	56	102.1

NOTES:

J: Estimated due to data validation criteria

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-02D 11/11/2003 (ug/l)	MW-02D 2/27/2004 (ug/l)	MW-02D 5/20/2004 (ug/l)	MW-02D 8/20/2004 (ug/l)	MW-02D 11/8/2004 (ug/l)	MW-02D 2/28/2005 (ug/l)	MW-02D 5/26/2005 (ug/l)	MW-02D 8/24/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	20.7 B	NA	NA	53.8 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	6.9 B	NA	NA	6.7 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	16.7 B	NA	NA	21.2 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.3 U	0.30 U	0.23 U	0.23 U	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	7,640	7,800	7,980	7,810	8,590	8,360	8,570	9,260
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.5 B	NA	NA	1.2 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	4.2 B	NA	NA	1.2 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	62.4 B	26.8 B	103	56.8 B	46.8 B	64.4 B	48.4 B	98.4 B
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	1.2 U	1.2 U	1.1 U	1.1 U	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,340 B	3,420 B	3,260 B	3,250 B	3,620 B	3,530 B	3,580 B	3,960 B
Manganese	300 ST	7439-96-5	ug/l	3.7 B	1.2 B	14.9 B	2.6 B	2.8 B	3.1 B	3.4 B	5.6 B
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.6 U	NA	NA	1.2 U	NA	NA
Potassium	-	7440-09-7	ug/l	697 B	674 B	883 B	730 B	877 B	848 B	734 B	741 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	7,590	8,450	7,760	8,290	8,840	8,540	7,380	9,170
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	15.2 B	NA	NA	72.3	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	66.1	28	117.9	59.4	49.6	67.5	51.8	104

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-02D (ug/l)	MW-02D 2/28/2006 (ug/l)	MW-02D 5/18/2006 (ug/l)	MW-02D 8/10/2006 (ug/l)	MW-02D 11/30/2006 (ug/l)	MW-02D 2/22/2007 (ug/l)	MW-02D 5/25/2007 (ug/l)	MW-02D 8/15/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	47.0 B	34.0 B	103 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	6.4 U	6.4 U	4.6 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.50 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	16.4 B	24.0 B	20.3 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.62 B	0.28 U	0.28 U	0.16 U	0.17 B
Calcium	-	7440-70-2	ug/l	8,190	8,310	8,180	7,740	6,840	6,260	5,500	6,320
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	1.9 B	0.72 B	0.56 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	3.8 B	9.7 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	40.7 B	95.8 B	155	60.1 B	129	70.1 B	43.0 B	8.9 B
Lead	25 ST	7439-92-1	ug/l	2.8 B	2.3 B	2.1 B	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,560 B	3,840 B	3,430 B	3,330 B	3,160 B	3,120 B	2,640 B	2,950 B
Manganese	300 ST	7439-96-5	ug/l	2.4 B	4.4 B	12 B	1.7 B	4.8 B	3.6 B	2.1 B	2.1 B
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	676 B	929 B	699 B	1490 B	791 B	889 B	711 B	754 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.87 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	7,570	7,790	7,590	7,750	6,690	6,310	5,030	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	66.2	U*	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	43.1	100.2	167	61.8	133.8	73.7	45.1	11.0

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

U*: Result qualified as non-detect based on validation criteria

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-02D 11/13/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32 B					
Calcium	-	7440-70-2	ug/l	5,460					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	446					
Lead	25 ST	7439-92-1	ug/l	2.2 JB					
Magnesium	35,000 GV	7439-95-4	ug/l	2,630 B					
Manganese	300 ST	7439-96-5	ug/l	11.6 B					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	997 JB					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	4,240 B					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	457.6					

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)	MW-021 (ug/l)
			UNITS:	10/27/1997	12/1/2000	1/30/2001	8/21/2002	11/20/2002	3/7/2003	6/3/2003	8/21/2003	
Aluminum	-	7429-90-5	ug/l	80.2	26.4 B	11.8 U	NA	70.4 B	NA	NA	48.0 B	
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U	
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U	
Barium	1,000 ST	7440-39-3	ug/l	47.9	39.9 B	36.9	NA	30.8 B	NA	NA	35.5 B	
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U	
Boron	1,000 ST	7440-42-8	ug/l	NA	126	97.2	NA	105	NA	NA	103	
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.43 B	0.5 U	0.19 B	0.11 B	0.30 U	
Calcium	-	7440-70-2	ug/l	4,990	10,700	10,500	7,090	6,060	11,600	13,200	9,450	
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U	
Chromium Total	50 ST	7440-47-3	ug/l	0.7	3.5 U	0.6 U	NA	0.8 U	NA	NA	0.70 U	
Cobalt	-	7440-48-4	ug/l	1.1	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U	
Copper	200 ST	7440-50-8	ug/l	3.6	1.5 U	1.5 U	NA	5.9 B	NA	NA	1.4 B	
Iron	300 ST	7439-89-6	ug/l	249	6.9 B	5.4	207	173	44.3 B	142	99.8 B	
Lead	25 ST	7439-92-1	ug/l	3.5	1.4 U	1.1 U	1.2 B	1.7 B	1.5 U	1.5 U	0.80 U	
Magnesium	35,000 GV	7439-95-4	ug/l	685	2,670 B	2,600	1,900 B	1,780	3,240 B	3,320 B	2,680 B	
Manganese	300 ST	7439-96-5	ug/l	40.9	417	406	181	504	503	328	295	
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U	
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	1.1	NA	NA	1.5 U	
Potassium	-	7440-09-7	ug/l	3,100	1,630 B	1,680	1,740 B	3,600	3,070 B	4,130 B	1,480 B	
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U	
Silver	50 ST	7440-22-4	ug/l	0.9 U	1 B	1.6 U	NA	1 U	NA	NA	1.0 U	
Sodium	20,000 ST	7440-23-5	ug/l	15,300	8,700	7,580	7,370	7,100	12,300	8,740	6,460	
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U	
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.60 U	NA	NA	1.8 U	
Zinc	2,000 ST	7440-66-6	ug/l	37	2.2 U	3.6 U	NA	36	NA	NA	9.8 B	
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U	
Iron + Manganese	500 ST	-	ug/l	289.9	423.9	411.4	388	677	547.3	470	394.8	

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

U*: Result qualified as non-detected based on validation criteria

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	UNITS:	MW-021 11/11/2003 (ug/l)	MW-021 2/26/2004 (ug/l)	MW-021 5/20/2004 (ug/l)	MW-021 8/20/2004 (ug/l)	MW-021 11/8/2004 (ug/l)	MW-021 2/28/2005 (ug/l)	MW-021 5/26/2005 (ug/l)	MW-021 8/24/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	133 B	NA	NA	NA	184 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	31.2 B	NA	NA	NA	39.5 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	NA	0.33 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	39.5 B	NA	NA	NA	58.9 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.41 B	0.3 U	0.36 B	0.43 B	0.43 B	0.53 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	9,840	11,200	17,700	10,900	11,900	11,900	10,200	9,950	9,410
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.7 B	NA	NA	NA	1.5 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	8.3 B	NA	NA	NA	14.3 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	121	94.5 B	177	93.2 B	109	109	198	67.2 B	93.9 B
Lead	25 ST	7439-92-1	ug/l	1.9 B	1.6 U	3.2	1.9 B	1.1 U	1.1 U	2.4 B	2.3 B	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,310 B	2,400	2,980 B	1,910 B	1,840 B	1,840 B	1,910 B	1,940 B	1,900 B
Manganese	300 ST	7439-96-5	ug/l	390	360	266	320	249	249	239	329	310
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	2.2 B	NA	NA	NA	1.2 U	NA	NA
Potassium	-	7440-09-7	ug/l	1,670 B	1,760 B	3,100 B	1,780 B	2,390 B	2,390 B	2,010 B	1,570 B	1,340 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.50 U	NA	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	6,510	9,210	6,970	8,040	7,660	7,660	9,060	8,630	9,060
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	36.4	NA	NA	NA	110	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	ST1	454.5	443	413.2	358	358	437	396.2	403.9

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-021 11/29/2005 (ug/l)	MW-021 2/28/2006 (ug/l)	MW-021 5/18/2006 (ug/l)	MW-021 8/10/2006 (ug/l)	MW-021 11/30/2006 (ug/l)	MW-021 2/22/2007 (ug/l)	MW-021 5/25/2007 (ug/l)	MW-021 8/14/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	54.6 B	48.0 B	130 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	46.3 B	56.4 B	42.2 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.58 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	112 B	117 B	95.4 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.38 B	0.16 U	0.24 B
Calcium	-	7440-70-2	ug/l	11,200	12,100	16,800	20,000	24,700	21,600	19,000	24,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.2 B	1.2 B	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	6.8 B	16.7 B	U*	NA
Iron	300 ST	7439-89-6	ug/l	30.8 B	27.1 B	35.5 B	3.7 U	94.2 B	186	87.5 B	6.7 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.6 B	1.9 B	1.9 U	1.5 U	1.6 B	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,160 B	2,520 B	2,810 B	3,060 B	3,480 B	3,730 B	2,880 B	2,850 B
Manganese	300 ST	7439-96-5	ug/l	335	433	396	251	210	330	110	83
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	2,560 B	3,600 B	2,410 B	2,520 B	2,110 B	2,360 B	1,700 B	2,500 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.8 B	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	9,820	12,500	23,200	15,000	17,000	18,700	15,200	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.4 B	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	58.8	U*	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	365.8	460.1	431.5	251	304.2	516	197.5	89.7

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-021 11/13/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.35 B					
Calcium	-	7440-70-2	ug/l	18,200					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	183					
Lead	25 ST	7439-92-1	ug/l	1.4 UJ					
Magnesium	35,000 GV	7439-95-4	ug/l	2,230 B					
Manganese	300 ST	7439-96-5	ug/l	332					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	3,430 JB					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	22,400					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	515					

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-02S 10/27/1997 (ug/l)	MW-02S 11/30/2000 (ug/l)	MW-02S 1/31/2001 (ug/l)	MW-02S 8/21/2002 (ug/l)	MW-02S 11/20/2002 (ug/l)	MW-02S 3/5/2003 (ug/l)	MW-02S 6/3/2003 (ug/l)	MW-02S 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	146	15.8 B	11.8 U					
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U					
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U					
Barium	1,000 ST	7440-39-3	ug/l	26.3	34.1 B	31.9					
Beryllium	3 GV	7440-41-7	ug/l	0.77	0.1 U	0.14					
Boron	1,000 ST	7440-42-8	ug/l	NA	59.7 B	87.8					
Cadmium	5 ST	7440-43-9	ug/l	0.57	0.4 U	0.2 U					
Calcium	-	7440-70-2	ug/l	27,000	30,300	33,100					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	N	N	N	N	N
Chromium Total	50 ST	7440-47-3	ug/l	1.1	3.5 U	0.6 U	O	O	O	O	O
Cobalt	-	7440-48-4	ug/l	1.5	0.9 U	1.7 U	T	T	T	T	T
Copper	200 ST	7440-50-8	ug/l	4	2.6 B	1.5 U					
Iron	300 ST	7439-89-6	ug/l	312	18.7 B	13.8	S	S	S	S	S
Lead	25 ST	7439-92-1	ug/l	2.1	1.4 U	1.1 U	A	A	A	A	A
Magnesium	35,000 GV	7439-95-4	ug/l	2,890	2360 B	2750	M	M	M	M	M
Manganese	300 ST	7439-96-5	ug/l	5.6	61.1	68.4	P	P	P	P	P
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	L	L	L	L	L
Nickel	100 ST	7440-02-0	ug/l	1.3	1.9 U	1.4 U	E	E	E	E	E
Potassium	-	7440-09-7	ug/l	4,660	7,850	7,600	D	D	D	D	D
Selenium	10 ST	7782-49-2	ug/l	2.8 U	4 B	1.5 U					
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.93 B	1.6 U					
Sodium	20,000 ST	7440-23-5	ug/l	18,900	12,900	13,100					
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 B	2.8 U					
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U					
Zinc	2,000 ST	7440-66-6	ug/l	20.8	2.8 B	3.6 U					
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U					
Iron + Manganese	500 ST	-	ug/l	317.6	79.8	82.2					

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)	MW-02S (ug/l)
			UNITS:									
Aluminum	-	7429-90-5	ug/l									
Antimony	3 GV	7440-36-0	ug/l									
Arsenic	25 ST	7440-38-2	ug/l									
Barium	1,000 ST	7440-39-3	ug/l									
Beryllium	3 GV	7440-41-7	ug/l									
Boron	1,000 ST	7440-42-8	ug/l									
Cadmium	5 ST	7440-43-9	ug/l									
Calcium	-	7440-70-2	ug/l									
Chromium Hexavalent	50 ST	18540-29-9	ug/l	N	N	N	N	N	N	N	N	N
Chromium Total	50 ST	7440-47-3	ug/l	O	O	O	O	O	O	O	O	O
Cobalt	-	7440-48-4	ug/l	T	T	T	T	T	T	T	T	T
Copper	200 ST	7440-50-8	ug/l									
Iron	300 ST	7439-89-6	ug/l	S	S	S	S	S	S	S	S	S
Lead	25 ST	7439-92-1	ug/l	A	A	A	A	A	A	A	A	A
Magnesium	35,000 GV	7439-95-4	ug/l	M	M	M	M	M	M	M	M	M
Manganese	300 ST	7439-96-5	ug/l	P	P	P	P	P	P	P	P	P
Mercury	0.7 ST	7439-97-6	ug/l	L	L	L	L	L	L	L	L	L
Nickel	100 ST	7440-02-0	ug/l	E	E	E	E	E	E	E	E	E
Potassium	-	7440-09-7	ug/l	D	D	D	D	D	D	D	D	D
Selenium	10 ST	7782-49-2	ug/l									
Silver	50 ST	7440-22-4	ug/l									
Sodium	20,000 ST	7440-23-5	ug/l									
Thallium	0.5 GV	7440-28-0	ug/l									
Vanadium	-	7440-62-2	ug/l									
Zinc	2,000 ST	7440-66-6	ug/l									
Cyanide	200 ST	0057-12-5	ug/l									
Iron + Manganese	500 ST*	-	ug/l									

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-02S 11/30/2005 (ug/l)	MW-02S 3/1/2006 (ug/l)	MW-02S 5/18/2006 (ug/l)	MW-02S 8/9/2006 (ug/l)	MW-02S 11/29/2006 (ug/l)	MW-02S 2/22/2007 (ug/l)	MW-02S 6/1/2007 (ug/l)	MW-02S 8/14/2007 (ug/l)
	UNITS:										
Aluminum	-	7429-90-5	ug/l								
Antimony	3 GV	7440-36-0	ug/l								
Arsenic	25 ST	7440-38-2	ug/l								
Barium	1,000 ST	7440-39-3	ug/l								
Beryllium	3 GV	7440-41-7	ug/l								
Boron	1,000 ST	7440-42-8	ug/l								
Cadmium	5 ST	7440-43-9	ug/l	W	W	W	W	W	W	W	W
Calcium	-	7440-70-2	ug/l	E	E	E	E	E	E	E	E
Chromium Hexavalent	50 ST	18540-29-9	ug/l	L	L	L	L	L	L	L	L
Chromium Total	50 ST	7440-47-3	ug/l	L	L	L	L	L	L	L	L
Cobalt	-	7440-48-4	ug/l								
Copper	200 ST	7440-50-8	ug/l	A	A	A	A	A	A	A	A
Iron	300 ST	7439-89-6	ug/l	B	B	B	B	B	B	B	B
Lead	25 ST	7439-92-1	ug/l	A	A	A	A	A	A	A	A
Magnesium	35,000 GV	7439-95-4	ug/l	N	N	N	N	N	N	N	N
Manganese	300 ST	7439-96-5	ug/l	D	D	D	D	D	D	D	D
Mercury	0.7 ST	7439-97-6	ug/l	O	O	O	O	O	O	O	O
Nickel	100 ST	7440-02-0	ug/l	N	N	N	N	N	N	N	N
Potassium	-	7440-09-7	ug/l	E	E	E	E	E	E	E	E
Selenium	10 ST	7782-49-2	ug/l	D	D	D	D	D	D	D	D
Silver	50 ST	7440-22-4	ug/l	D	D	D	D	D	D	D	D
Sodium	20,000 ST	7440-23-5	ug/l								
Thallium	0.5 GV	7440-28-0	ug/l								
Vanadium	-	7440-62-2	ug/l								
Zinc	2,000 ST	7440-66-6	ug/l								
Cyanide	200 ST	0057-12-5	ug/l								
Iron + Manganese	500 ST*	-	ug/l								

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-02S 11/14/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l						
Antimony	3 GV	7440-36-0	ug/l						
Arsenic	25 ST	7440-38-2	ug/l						
Barium	1,000 ST	7440-39-3	ug/l						
Beryllium	3 GV	7440-41-7	ug/l						
Boron	1,000 ST	7440-42-8	ug/l						
Cadmium	5 ST	7440-43-9	ug/l						
Calcium	-	7440-70-2	ug/l	W					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	E					
Chromium Total	50 ST	7440-47-3	ug/l	L					
Cobalt	-	7440-48-4	ug/l	L					
Copper	200 ST	7440-50-8	ug/l						
Iron	300 ST	7439-89-6	ug/l	A					
Lead	25 ST	7439-92-1	ug/l	B					
Magnesium	35,000 GV	7439-95-4	ug/l	A					
Manganese	300 ST	7439-96-5	ug/l	N					
Mercury	0.7 ST	7439-97-6	ug/l	D					
Nickel	100 ST	7440-02-0	ug/l	O					
Potassium	-	7440-09-7	ug/l	N					
Selenium	10 ST	7782-49-2	ug/l	E					
Silver	50 ST	7440-22-4	ug/l	D					
Sodium	20,000 ST	7440-23-5	ug/l						
Thallium	0.5 GV	7440-28-0	ug/l						
Vanadium	-	7440-62-2	ug/l						
Zinc	2,000 ST	7440-66-6	ug/l						
Cyanide	200 ST	0057-12-5	ug/l						
Iron + Manganese	500 ST*	-	ug/l						

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-03S 10/30/1997 (ug/l)	MW-03S 12/16/2000 (ug/l)	MW-03S 2/2/2001 (ug/l)	MW-03S 8/22/2002 (ug/l)	MW-03S 11/22/2002 (ug/l)	MW-03S 3/7/2003 (ug/l)	MW-03S 6/3/2003 (ug/l)	MW-03S 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	1,080	16.5 B	53.7	NA	803	NA	NA	46.0 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.4 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	3.2	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	136	125 B	125	NA	176 B	NA	NA	158 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.24	NA	0.80 B	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	128	153	NA	139	NA	NA	222
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.22	0.13 B	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	50,800	51,200	57,700	67,400	92,400	112,000	84,900	91,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	3.1	3.5 U	0.6	NA	2.9 B	NA	NA	1.2 B
Cobalt	-	7440-48-4	ug/l	1.1	0.9 U	1.7 U	NA	13.1 B	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	3.3	2.6 B	1.5 U	NA	11.5 B	NA	NA	5.2 B
Iron	300 ST	7439-89-6	ug/l	12,700	10,200	7,390	30,600	80,600	85,800	21,100	16,800
Lead	25 ST	7439-92-1	ug/l	1.4	1.4 U	1.1 U	0.8 U	2.1 B	1.5 U	1.8 B	0.84 B
Magnesium	35,000 GV	7439-95-4	ug/l	7,970	7,620	8,320	9,840	16,000	21,700	14,100	14,600
Manganese	300 ST	7439-96-5	ug/l	7,270	5,840	5,930	8,430	11,500	8,490	2,930	3,770
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	2.6	1.9 U	1.4 U	NA	23.4 B	NA	NA	2.8 B
Potassium	-	7440-09-7	ug/l	7,870	8310	9590	8,680	7,850	12,200	19,300	14,100
Selenium	10 ST	7782-49-2	ug/l	2.8 U	2.8 B	2 N	NA	6	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.7 B	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	40,400	20,500	21,500	27,100	25,200	22,900	17,600	22,600
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	3.7	0.7 U	1.7 U	NA	2.9 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	34	3.5 B	3.6 U	NA	799	NA	NA	57.5
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	19,970	16,040	13,320	39,030	92,100	93,990	24,030	20,570

NOTES:

J: Estimated due to data validation criteria.

[REDACTED] Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	UNITS:	MW-03S 11/13/2003 (ug/l)	MW-03S 3/2/2004 (ug/l)	MW-03S 5/24/2004 (ug/l)	MW-03S 8/23/2004 (ug/l)	MW-03S 11/10/2004 (ug/l)	MW-03S 3/2/2005 (ug/l)	MW-03S 5/31/2005 (ug/l)	MW-03S 8/26/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	57.5 B	NA	NA	121 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	1.6 U	NA	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	5.1 B	NA	NA	NA	4.6 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	147 B	NA	NA	NA	192 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.1 U	NA	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	171 B	NA	NA	NA	161	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.92 B	0.30 U	0.30 U	0.51 B	1.3 B	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	76,200	66,200	67,100	69,300	72,800	71,000	82,600	82,600	74,800
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.9 B	NA	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	0.9 U	NA	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	2.1 B	NA	NA	NA	2.1 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	34,900	28,300	27,400	30,400	30,300	30,300	34,000	27,600	48,900
Lead	25 ST	7439-92-1	ug/l	1.1 U	0.70 U	0.7 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	3.9
Magnesium	35,000 GV	7439-95-4	ug/l	11,800	9,800	10,100	9,850	10,400	10,400	10,400	13,000	10,000
Manganese	300 ST	7439-96-5	ug/l	5,500	4,860	4,630	5,010	5,750	6,100	6,100	6,090	1,310
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.5 B	NA	NA	NA	1.2 U	NA	NA
Potassium	-	7440-09-7	ug/l	15,900	12,900	10,800	12,000	12,400	12,400	13,200	13,600	16,000
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	30,000	27,400	20,900	29,300	38,900	39,600	39,600	35,900	22,800
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	20.7 B	NA	NA	NA	72.2	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	40,400	33,160	32,030	35,410	36,050	40,100	33,690	33,690	50,210

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)	MW-03S (ug/l)
			UNITS:	11/30/2005	3/1/2006	5/18/2006	8/9/2006	11/29/2006	2/22/2007	6/1/2007	8/14/2007	
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	56.5 B	367	63.6 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	2.2 B	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	6.3 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	230	250	265	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.30 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	193 B	201 B	231 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.92 B	0.27 B	0.16 U	0.16 U
Calcium	-	7440-70-2	ug/l	124,000	115,000	93,400	97,500	85,200	82,400	91,900	76,000	76,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	1.7 B	0.33 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.9 B	4.3 B	0.44 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	26,700	20,800	27,700	31,200	27,800	28,700	29,900	25,200	25,200
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	2.7 B	1.9 U	1.5 U	1.9 B	1.1 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	18,200	18,900	13,700	14,300	13,300	13,600	14,200	11,600	11,600
Manganese	300 ST	7439-96-5	ug/l	5,050	4,960	5,630	5,490	5,750	5,510	5,750	5,340	5,340
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	2.0 B	3.2 B	4.0 B	NA	NA
Potassium	-	7440-09-7	ug/l	17,700	22,500	17,500	18,500	16,500	18,600	17,700	14,900	14,900
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	2.1 B	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	29,000	42,300	34,300	33,300	35,900	36,700	34,400	U*	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	5.5 B	3.7 B	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.6 B	2.3 B	2.0 B	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	71.1	U*	4.8 B	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	31,750	25,760	33,330	36,690	33,550	34,310	35,650	30,540	30,540

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-03S 11/14/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	73,600 J				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	24,600				
Lead	25 ST	7439-92-1	ug/l	1.4 U				
Magnesium	35,000 GV	7439-95-4	ug/l	11,200 J				
Manganese	300 ST	7439-96-5	ug/l	5,920 J				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	12,500				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	29,100 J				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	#VALUE!				

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-04D 10/28/1997 (ug/l)	MW-04D 12/6/2000 (ug/l)	MW-04D 2/1/2001 (ug/l)	MW-04D 8/23/2002 (ug/l)	MW-04D 11/21/2002 (ug/l)	MW-04D 3/7/2003 (ug/l)	MW-04D 6/3/2003 (ug/l)	MW-04D 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	52.9	17.7 B	15.7	NA	29.4 B	NA	NA	27.3 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	7.6	11.9	14.4	NA	7.2 B	NA	NA	13.7
Barium	1,000 ST	7440-39-3	ug/l	186	249	224	NA	90.8 B	NA	NA	108 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.16	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	291	326	NA	170	NA	NA	120
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.37	0.1 B	0.5 U	0.1 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	56,100	60,000	59,100	30,800	24,700	24,000	27,500	30,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.4 U	3.5 U	0.6 U	NA	1.3 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	14.9	17.7 B	14.4	NA	4.3 B	NA	NA	4.4 B
Copper	200 ST	7440-50-8	ug/l	0.7 U	1.5 U	1.5 U	NA	3.4 B	NA	NA	1.6 B
Iron	300 ST	7439-89-6	ug/l	66,900	75,500	69,500	24,500	20,400	24,800	28,300	34,500
Lead	25 ST	7439-92-1	ug/l	1 U	4	3.6	0.88 B	1.4 U	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	8,830	11,500	11,100	5,380	4,060 B	4,080 B	4,550 B	4,840 B
Manganese	300 ST	7439-96-5	ug/l	1,700	2,900	2,470	589	690	725	764	829
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	7.4	7.1 B	5.4	NA	2.3 B	NA	NA	2.6 B
Potassium	-	7440-09-7	ug/l	14,000	14,900	16,200	10,700	8,650	8,970	10,500	8,800
Selenium	10 ST	7782-49-2	ug/l	2.8 U	2.2 B	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.3 B	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	21,100	26,500	27,500	15,300	13,700	14,000	14,900	13,300
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.82 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	85.9	5.9 B	3.6 U	NA	16.7 B	NA	NA	22.8
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	67,700	78,400	75,970	25,089	21,090	25,525	29,064	35,329

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	UNITS:	MW-04D 11/11/2003 (ug/l)	MW-04D 3/1/2004 (ug/l)	MW-04D 5/24/2004 (ug/l)	MW-04D 8/23/2004 (ug/l)	MW-04D 11/9/2004 (ug/l)	MW-04D 3/1/2005 (ug/l)	MW-04D 5/27/2005 (ug/l)	MW-04D 8/26/2005 (ug/l)
Aluminum	-	7429-90-5	NA	ug/l	NA	NA	30.3 B	NA	NA	94.5 B	NA	NA
Antimony	3 GV	7440-36-0	NA	ug/l	NA	NA	1.6 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	NA	ug/l	NA	NA	16.8	NA	NA	20.3	NA	NA
Barium	1,000 ST	7440-39-3	NA	ug/l	NA	NA	135 B	NA	NA	172 B	NA	NA
Beryllium	3 GV	7440-41-7	NA	ug/l	NA	NA	0.1 U	NA	NA	0.35 B	NA	NA
Boron	1,000 ST	7440-42-8	NA	ug/l	NA	NA	96.7 B	NA	NA	161	NA	NA
Cadmium	5 ST	7440-43-9	0.3 U	ug/l	0.20 U	1.5 B	1.5 B	0.30 U	0.84 B	2.6 B	1.3 B	0.65 U
Calcium	-	7440-70-2	34,000	ug/l	43,400	45,500	45,500	63,500	62,500	60,600	58,300	56,800
Chromium Hexavalent	50 ST	18540-29-9	NA	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	NA	ug/l	NA	NA	0.6 U	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	NA	ug/l	NA	NA	4.7 B	NA	NA	5.0 B	NA	NA
Copper	200 ST	7440-50-8	NA	ug/l	NA	NA	0.9 U	NA	NA	1.3 B	NA	NA
Iron	300 ST	7439-89-6	35,300	ug/l	45,700	48,900	48,900	61,000	65,600	66,400	64,500	58,000
Lead	25 ST	7439-92-1	1.1 U	ug/l	1.6 U	0.7 U	0.7 U	2.6 B	1.1 U	1.1 U	1.2 U	4.4
Magnesium	35,000 GV	7439-95-4	5,720	ug/l	7,110	7,730	7,730	9,970	9,860	9,350	8,950	8,050
Manganese	300 ST	7439-96-5	972	ug/l	1,270	1,280	1,280	1,780	1,660	1,400	1,220	1,170
Mercury	0.7 ST	7439-97-6	NA	ug/l	NA	0.1 U	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	NA	ug/l	NA	1.5 B	1.5 B	NA	NA	2.0 B	NA	NA
Potassium	-	7440-09-7	11,000	ug/l	10,500	10,400	10,400	13,400	12,500	13,200	10,800	8,460
Selenium	10 ST	7782-49-2	NA	ug/l	NA	1.8 U	1.8 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	NA	ug/l	NA	0.5 U	0.5 U	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	13,900	ug/l	16,400	15,000	15,000	21,900	24,100	25,100	25,500	22,400
Thallium	0.5 GV	7440-28-0	NA	ug/l	NA	1.9 U	1.9 U	NA	NA	3.1 B	NA	NA
Vanadium	-	7440-62-2	NA	ug/l	NA	1 U	1 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	NA	ug/l	NA	18 B	18 B	NA	NA	63.6	NA	NA
Cyanide	200 ST	0057-12-5	NA	ug/l	NA	10 U	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	36,272	ug/l	46,970	50,180	50,180	62,780	67,260	67,800	65,720	59,170

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detected based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-04D (ug/l)	MW-04D 5/22/2006 (ug/l)	MW-04D 8/10/2006 (ug/l)	MW-04D 11/30/2006 (ug/l)	MW-04D 2/23/2007 (ug/l)	MW-04D 5/24/2007 (ug/l)	MW-04D 8/10/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	24.4 B	31.2 B	69.0 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	19.2	8.1 B	5.1 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	44.8 B	37.1 B	32.9 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	0.17 U	1.1 B	1.2 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	62.7 B	64.6 B	61.1 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.12 U	0.28 U	1.5 B	0.62 B	0.82 B
Calcium	-	7440-70-2	ug/l	48,100	39,700	30,100	19,500	18,400	15,900	20,700
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	1.4 B	1.6 B	0.43 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	1.3 U	1.8 B	1.5 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	3.7 B	3.7 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	53,100	44,000	34,300	24,000	4,920	6,140	25,500
Lead	25 ST	7439-92-1	ug/l	2.2 B	1.3 U	1.1 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	6,630	5,940	4370 B	2900 B	2,820 B	2,410 B	3,100 B
Manganese	300 ST	7439-96-5	ug/l	931	970	693	514	446	443	722
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	1.8 U	1.8 U	0.79 B	NA
Potassium	-	7440-09-7	ug/l	7,790	8,440	7,280	5,850	5,410	4,650 B	5,280
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	0.38 U	0.59 B	1.1 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	22,000	20,000	15,900	8,900	9,160	7,970	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	2.9 U	4.9 B	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	62.0	38.5	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	54,031	44,970	34,993	26,230	5,366	6,583	26,222

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-04D 11/13/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32 U					
Calcium	-	7440-70-2	ug/l	16,600					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	4,130					
Lead	25 ST	7439-92-1	ug/l	1.4 UJ					
Magnesium	35,000 GV	7439-95-4	ug/l	2,570 B					
Manganese	300 ST	7439-96-5	ug/l	251					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	4,360 J					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	7,480					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	4,381					

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-041 10/29/1997 (ug/l)	MW-041 12/6/2000 (ug/l)	MW-041 2/1/2001 (ug/l)	MW-041 8/23/2002 (ug/l)	MW-041 11/22/2002 (ug/l)	MW-041 3/6/2003 (ug/l)	MW-041 6/3/2003 (ug/l)	MW-041 8/22/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	365	19.9 B	18.7	NA	13.9 B	NA	NA	17.7 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	10.1	14.6	17.1	NA	11.5	NA	NA	17.5
Barium	1,000 ST	7440-39-3	ug/l	128	175 B	107	NA	135 B	NA	NA	124 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.14	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	300	285	NA	231	NA	NA	211
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.25 B	0.50 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	53,200	92,000	62,200	41,700	85,700	85,500	101,000	90,100
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.3 U	3.5 U	0.6 U	NA	1 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	5.2	1.7 B	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	5.2	1.5 U	1.5 U	NA	2.8 B	NA	NA	2.2 B
Iron	300 ST	7439-89-6	ug/l	31,800	55,200	38,200	29,000	56,200	53,000	62,500	56,900
Lead	25 ST	7439-92-1	ug/l	3.7	1.9 B	1.9	0.8 U	1.4 U	1.5 U	1.6 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	9,580	15,700	9,960	5,690	10,700	11,100	12,800	10,400
Manganese	300 ST	7439-96-5	ug/l	480	884	592	576	1,410	1,270	1,640	1,420
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	3.9	1.9 U	1.4 U	NA	3.5 B	NA	NA	5.0 B
Potassium	-	7440-09-7	ug/l	69,400	21,700	19,400	10,100	14,800	15,400	18,900	13,600
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	3.9 B	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.5 U	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	29,200	32,500	22,700	13,400	26,800	25,700	34,000	27,800
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	4.4	0.7 U	1.7 U	NA	1.8 B	NA	NA	2.0 B
Zinc	2,000 ST	7440-66-6	ug/l	96.1	6.8 B	3.6 U	NA	19.3 B	NA	NA	7.1 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	32,280	56,084	38,792	29,576	57,610	54,270	64,140	58,320

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)	MW-041 (ug/l)
			UNITS:	11/12/2003	3/1/2004	5/24/2004	8/23/2004	11/9/2004	3/1/2005	5/27/2005	8/26/2005	
Aluminum	-	7429-90-5	ug/l	NA	NA	50.8 B	NA	NA	73.0 B	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	1.6 U	NA	NA	3.6 U	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	17.4	NA	NA	19.4	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	100 B	NA	NA	189 B	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.10 U	NA	NA	0.19 U	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	177 B	NA	NA	291	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	1.4 B	0.30 U	1.0 B	2.1 B	1.2 B	0.65 U	
Calcium	-	7440-70-2	ug/l	91,200	99,100	78,500	87,100	86,700	87,700	78,000	68,800	
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.6 U	NA	NA	0.63 U	NA	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	0.9 U	NA	NA	1.3 U	NA	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	0.9 U	NA	NA	1.1 U	NA	NA	NA
Iron	300 ST	7439-89-6	ug/l	56,100	61,600	50,500	51,900	56,600	56,000	48,100	44,700	
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	0.7 U	2.0 B	1.1 U	1.1 U	1.2 U	3.2	
Magnesium	35,000 GV	7439-95-4	ug/l	10,500	10,600	8,680	9,570	10,600	12,800	11,600	9,230	
Manganese	300 ST	7439-96-5	ug/l	1,510	1,790	1,420	1,640	1,780	1,680	1,390	1,210	
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.8 B	NA	NA	1.2 U	NA	NA	NA
Potassium	-	7440-09-7	ug/l	16,000	14,000	11,700	14,500	16,500	26,000	20,200	14,400	
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 U	NA	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.75 U	NA	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	29,500	30,800	22,000	26,400	27,400	27,200	26,600	21,200	
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	1.8 U	NA	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	26.2 B	NA	NA	46.3	NA	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	57,610	63,390	51,920	53,540	58,380	57,680	49,490	45,910	

NOTES:

- J: Estimated due to data validation criteria.
- [REDACTED]: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-041 11/30/2005 (ug/l)	MW-041 3/1/2006 (ug/l)	MW-041 5/22/2006 (ug/l)	MW-041 8/10/2006 (ug/l)	MW-041 11/30/2006 (ug/l)	MW-041 2/23/2007 (ug/l)	MW-041 5/24/2007 (ug/l)	MW-041 8/10/2007 (ug/l)
			UNITS:								
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	16.8 B	18.9 B	63.8 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.7 B	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	14.4	7.5 B	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	47.7 B	30.3 B	33.1 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.58 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	94.3 B	80.9 B	89.6 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.12 U	0.34 U	0.28 U	0.28 U	0.20 B	0.16 U
Calcium	-	7440-70-2	ug/l	59,700	53,300	41,200	52,600	34,300	28,700	31,600	76,800
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	1.2 B	0.74 B	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.8 B	7.1 B	U*	NA
Iron	300 ST	7439-89-6	ug/l	38,300	33,000	25,500	31,200	20,500	4,420	2,900	54,400
Lead	25 ST	7439-92-1	ug/l	2.0 B	1.3 U	1.1 U	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	7,470	7,060	5,140	5,890	3,630 B	3,020	3,240 B	9,030
Manganese	300 ST	7439-96-5	ug/l	1,040	894	671	857	522	367	296	1,580
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	13,400	15,400	12,400	11,700	7,770	7,360	7,310	14,600 J
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.48 B	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	19,500	18,200	15,800	18,600	13,400	11,500	13,900	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	45.3	37.0	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	39,340	33,894	26,171	33,057	32,057	4,787	3,196	55,980

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-041 11/13/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	36,400				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	1,610				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	3,800 B				
Manganese	300 ST	7439-96-5	ug/l	75.1				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	7,640 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	14,600				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	1,685				

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

U*: Result qualified as non-detected based on validation criteria

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S	MW-04S
			UNITS:	10/29/1997	12/6/2000	2/1/2001	8/23/2002	11/22/2002	3/6/2003	6/3/2003	8/25/2003		
			ug/l	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Aluminum	-	7429-90-5	ug/l	574	28.8 B	32.4	NA	102 B	NA	NA	27.2 B		
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U		
Arsenic	25 ST	7440-38-2	ug/l	11.4	3.7 B	7.8	NA	4.5 U	NA	NA	8.1 B		
Barium	1,000 ST	7440-39-3	ug/l	441	278	285	NA	316	NA	NA	240		
Beryllium	3 GV	7440-41-7	ug/l	0.2	0.12 B	0.18	NA	0.4 U	NA	NA	0.20 U		
Boron	1,000 ST	7440-42-8	ug/l	NA	263	296	NA	320	NA	NA	273		
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U		
Calcium	-	7440-70-2	ug/l	152,000	99,400	109,000	115,000	123,000	139,000	138,000	109,000		
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U		
Chromium Total	50 ST	7440-47-3	ug/l	1.6	3.5 U	0.6 U	NA	0.92 B	NA	NA	1.0 B		
Cobalt	-	7440-48-4	ug/l	2.1	0.9 U	1.7 U	NA	1 U	NA	NA	2.8 B		
Copper	200 ST	7440-50-8	ug/l	2.5	1.5 U	2.2	NA	6.7 B	NA	NA	2.7 B		
Iron	300 ST	7439-89-6	ug/l	56,800	44,800	49,600	56,400	46,900	54,600	44,300	43,100		
Lead	25 ST	7439-92-1	ug/l	1.0 U	1.4 U	2.8	2.8 B	1.4 U	1.5 U	1.6 B	0.80 U		
Magnesium	35,000 GV	7439-95-4	ug/l	22,600	14,400	15,300	14,000	13,700	16,300	16,100	11,900		
Manganese	300 ST	7439-96-5	ug/l	1,520	1,770	2,040	2,140	1,670	1,960	3,000	1,690		
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U		
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	4.3 B	NA	NA	4.7 B		
Potassium	-	7440-09-7	ug/l	30,800	19,800	21,800	17,900	17,500	20,300	21,800	14,300		
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U		
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.3 B	1.6 U	NA	1 U	NA	NA	1 U		
Sodium	20,000 ST	7440-23-5	ug/l	29,900	32,100	33,300	32,500	29,700	31,600	33,900	26,400		
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U		
Vanadium	-	7440-62-2	ug/l	3.2	1.1 B	1.7 U	NA	2.6 B	NA	NA	2.1 B		
Zinc	2,000 ST	7440-66-6	ug/l	32.3	2.2 U	3.6 U	NA	10 B	NA	NA	14.9 B		
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U		
Iron + Manganese	500 ST	-	ug/l	58,320	46,570	51,640	58,540	48,570	56,560	47,300	44,790		

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)
			UNITS:									
Aluminum	-	7429-90-5	ug/l	NA	43.2 B	NA	NA	NA	93.8 B	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	1.6 U	NA	NA	NA	3.6 U	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	11.4	NA	NA	NA	15.8	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	191 B	NA	NA	NA	248	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	0.1 U	NA	NA	NA	0.19 U	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	261 B	NA	NA	NA	310	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.30 U	2.2 B	0.30 U	1.3 B	2.7 B	0.94 B	0.94 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	139,000	124,000	118,000	122,000	132,000	119,000	119,000	106,000	106,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	20 U	NA	NA	20 U	NA	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	0.6 U	NA	NA	0.63 U	NA	NA	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	5 B	NA	NA	1.3 U	NA	NA	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	0.9 U	NA	NA	1.1 U	NA	NA	NA	NA
Iron	300 ST	7439-89-6	ug/l	48,600	79,200	55,100	71,800	69,400	59,000	59,000	47,600	47,600
Lead	25 ST	7439-92-1	ug/l	1.1 U	0.7 U	3.0 B	1.1 U	1.1 U	1.2 U	1.2 U	2.9 B	2.9 B
Magnesium	35,000 GV	7439-95-4	ug/l	18,100	14,600	13,200	13,500	15,200	13,800	13,800	12,000	12,000
Manganese	300 ST	7439-96-5	ug/l	3,690	2,180	2,720	2,100	2,940	3,350	3,350	2,820	2,820
Mercury	0.7 ST	7439-97-6	ug/l	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	4.4 B	NA	NA	3.8 B	NA	NA	NA	NA
Potassium	-	7440-09-7	ug/l	20,000	16,700	19,000	18,200	21,900	20,800	20,800	14,900	14,900
Selenium	10 ST	7782-49-2	ug/l	NA	1.8 U	NA	NA	3.0 U	NA	NA	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	0.5 U	NA	NA	0.75 U	NA	NA	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	28,600	26,700	31,900	31,200	36,500	39,600	39,600	39,300	39,300
Thallium	0.5 GV	7440-28-0	ug/l	NA	2.1 B	NA	NA	2.7 U	NA	NA	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	1 U	NA	NA	1.8 U	NA	NA	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	14.7 B	NA	NA	53.3	NA	NA	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	10 U	NA	NA	10 U	NA	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	52,290	81,980	64,960	73,900	72,340	62,350	62,350	50,420	50,420

NOTES:

J: Estimated due to data validation criteria.

ST: Standard. Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)	MW-04S (ug/l)
			UNITS:	11/29/2005	2/28/2006	5/22/2006	8/10/2006	11/30/2006	3/2/2007	5/24/2007	8/10/2007	
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	29.6 B	418	363	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	2.9 B	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	11.9	10.9	8.9 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	298	293	327	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.58 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	242 B	233 B	242	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.49 B	0.12 U	0.34 U	0.28 U	0.31 B	0.16 U	0.16 U	0.16 U
Calcium	-	7440-70-2	ug/l	114,000	119,000	116,000	108,000	100,000	100,000	102,000	98,800	98,800
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.0 B	2.0 B	1.6 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	1.0 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	3.8 B	2.7 B	0.44 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	49,100	51,400	51,000	48,600	44,500	46,000	51,800	45,500	45,500
Lead	25 ST	7439-92-1	ug/l	4.1	1.3 U	1.1 U	2.4 B	1.5 U	1.5 U	1.1 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	12,100	14,100	13,700	12,100	12,800	12,900	13,400	12,300	12,300
Manganese	300 ST	7439-96-5	ug/l	3,000	3,230	3,140	2,810	2,730	2,620	2,690	2,350	2,350
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 B	1.8 U	2.6 B	NA	NA
Potassium	-	7440-09-7	ug/l	16,900	20,100	21,800	20,500	21,300	23,000	22,100	20,600 J	20,600 J
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	3.0 B	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	36,200	41,600	40,800	41,400	47,200	47,700	51,300	U*	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	4.9 B	2.6 B	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	3.0 B	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	50.8	U*	U*	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	52,100	54,630	54,140	51,410	47,230	48,620	54,490	47,850	47,850

NOTES:

J: Estimated due to data validation criteria.

NA: Not analyzed.

U: Analyzed for but not detected, value shown is instrument detection limit.

U*: Result qualified as non-detect based on validation criteria

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-04S 11/13/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	98,000				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	51,600				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	12,800				
Manganese	300 ST	7439-96-5	ug/l	2,490				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	1,880 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	42,700				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	54,090				

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-05D 10/29/1997 (ug/l)	MW-05D 12/8/2000 (ug/l)	MW-05D 2/2/2001 (ug/l)	MW-05D 8/23/2002 (ug/l)	MW-05D 11/22/2002 (ug/l)	MW-05D 3/7/2003 (ug/l)	MW-05D 6/3/2003 (ug/l)	MW-05D 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	241	12.2 U	11.8 U	NA	365	NA	NA	20.8 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	117	206	190	NA	53.9 B	NA	NA	28.3 B
Beryllium	3 GV	7440-41-7	ug/l	0.17	0.1 U	0.17	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	324	292	NA	83.1 B	NA	NA	57.8 B
Cadmium	5 ST	7440-43-9	ug/l	0.3	0.77	0.69	0.30 B	0.5 U	0.10 U	0.25 B	0.30 U
Calcium	-	7440-70-2	ug/l	47,300	107,000	99,900	39,500	36,900	33,700	27,800	21,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	2.9	3.5 U	0.85	NA	2.3 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	4.6	5.3	4.6	NA	1.6 B	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	4.8	6.3	4.6	NA	4.9 B	NA	NA	1.2 B
Iron	300 ST	7439-89-6	ug/l	374	101	23.2	763	751	122	60.6 B	53.8 B
Lead	25 ST	7439-92-1	ug/l	1.2	2.1	1.1 U	0.80 U	8.1	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	12,400	26,200	23,300	7,740	7,250	8,000	6,820	4800 B
Manganese	300 ST	7439-96-5	ug/l	17,200	21,300	17,500	8,380	8,390	7,900	7,010	5,130
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	5.1	7.7	6.7	NA	3.5 B	NA	NA	1.5 U
Potassium	-	7440-09-7	ug/l	20,200	33,100	33,000	13,500	11,100	9,080	8,860	5,700
Selenium	10 ST	7782-49-2	ug/l	2.8 U	9.3	7.4	NA	3.6 B	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	5.5	2.9	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	36,500	62,500	43,400	30,300	30,100	24,700	19,400	13,700
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	4.6 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	1.1 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	283	18.7	6	NA	193	NA	NA	12 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	17,574	21,401	17,523	9,143	9,141	8,022	7,071	5,184

NOTES:

J: Estimated due to data validation criteria.

█ Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-05D 11/12/2003 (ug/l)	MW-05D 3/2/2004 (ug/l)	MW-05D 5/25/2004 (ug/l)	MW-05D 8/23/2004 (ug/l)	MW-05D 11/10/2004 (ug/l)	MW-05D 3/2/2005 (ug/l)	MW-05D 5/31/2005 (ug/l)	MW-05D 8/26/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	32 B	NA	NA	80.8 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	1.6 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	2.1 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	24.3 B	NA	NA	28.7 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.14 B	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	38 B	NA	NA	49.8 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.25 B	0.5 B	0.30 B	0.23 B	0.32 B	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	20,400	26,000	17,600	19,900	20,800	21,800	19,400	20,100
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.9 B	NA	NA	1.4 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 B	NA	NA	1.8 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	1.3 B	NA	NA	1.9 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	257	893	99.9 B	35.6 B	32.8 B	43.6 B	6.7 B	61.2 B
Lead	25 ST	7439-92-1	ug/l	2.5 B	1.5 B	1.1 B	1.2 U	1.4 B	1.1 U	1.2 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	4,110 B	5,030	3,630 B	3,700 B	4,040 B	4,190 B	3,730 B	3,610 B
Manganese	300 ST	7439-96-5	ug/l	3,570	3,750	5,750	5,280	6,200	6,430	5,710	6,590
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	2.1 B	NA	NA	1.7 B	NA	NA
Potassium	-	7440-09-7	ug/l	6,410	8,980	5,710	6,430	6,870	6,490	5,640	4,490 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.88 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	12,500	21,100	12,800	14,200	14,100	14,800	13,500	13,300
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	14.7 B	NA	NA	45.3	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	3,827	4,643	4,849.2	5,315.6	6,232.8	6,473.6	5,716.7	6,651.2

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-05D 11/30/2005 (ug/l)	MW-05D 3/1/2006 (ug/l)	MW-05D 5/18/2006 (ug/l)	MW-05D 8/9/2006 (ug/l)	MW-05D 11/30/2006 (ug/l)	MW-05D 2/21/2007 (ug/l)	MW-05D 5/25/2007 (ug/l)	MW-05D 8/14/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	56.6 B	50.9 B	110 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.5 B	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	3.4 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	79.6 B	10.3 B	74.6 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.55 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	61.3 B	67.2 B	69.9 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.31 B	0.35 B	1.1 B	1.1 B	0.45 B	1.0 B	0.91 B
Calcium	-	7440-70-2	ug/l	19,700	21,600	22,000	52,000	45,700	42,100	41,900	36,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.0 B	1.1 B	0.94 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	3.4 B	1.3 U	3.2 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.8 B	3.2 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	10 U	34.9 B	24.0 B	56.4 B	122	150	32.4 B	21.7 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	1.9 U	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,560 B	4,200 B	4,020 B	9,300	10,100	10,100	10,500	9,410
Manganese	300 ST	7439-96-5	ug/l	6,750	7,260	8,090	17,500	16,400	1,400	15,500	13,500
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	7.7 B	1.9 B	9.9 B	NA
Potassium	-	7440-09-7	ug/l	4660 B	6,370	5,510	9,040	9,330	9,790	7,600	6,880
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	2.9 B	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	12,900	13,900	15,300	28,600	40,900	42,300	44,300	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	4.0 B	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	71.2	30.6	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	6,750	7,295	8,114	17,550	16,572	1,550	15,532.4	13,521.7

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-05D 8/14/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.99 B				
Calcium	-	7440-70-2	ug/l	24,700				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	315				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	6,890				
Manganese	300 ST	7439-96-5	ug/l	9,980				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	5,710 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	33,600				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	10,295				

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-051 10/29/1997 (ug/l)	MW-051 12/8/2000 (ug/l)	MW-051 2/2/2001 (ug/l)	MW-051 8/23/2002 (ug/l)	MW-051 11/22/2002 (ug/l)	MW-051 3/7/2003 (ug/l)	MW-051 6/3/2003 (ug/l)	MW-051 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	UNITS: ug/l	330	12.2 U	15.8	NA	287	NA	NA	143 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	4.3	3.5	5.5	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	17.8	50.4	57.7	NA	43.2 B	NA	NA	50.5 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	176	138	NA	86 B	NA	NA	99.8 B
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.36	0.1 U	0.5 U	0.1 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	8,280	39,200	45,300	28,100	34,500	36,700	36,000	34,500
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	3.3	3.5 U	0.6 U	NA	2.1 B	NA	NA	1.4 B
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	2.5	1.5 U	1.5 U	NA	2.3 B	NA	NA	3.8 B
Iron	300 ST	7439-89-6	ug/l	7,250	14,600	15,400	7,070	9,080	10,300	10,900	4,990
Lead	25 ST	7439-92-1	ug/l	3	1.4 U	1.1 U	3.5	2.9 B	1.5 U	1.5 U	1.6 B
Magnesium	35,000 GV	7439-95-4	ug/l	1,260	6,780	8,460	5000 B	5,940	6,570	6,110	5,460
Manganese	300 ST	7439-96-5	ug/l	1,080	1,160	1,380	1,130	1,150	1,270	1,370	1,170
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	3.6	1.9 U	1.4 U	NA	1.8 B	NA	NA	1.6 B
Potassium	-	7440-09-7	ug/l	4,820	14,900	15,300	9,360	8,270	14,400	15,400	12,900
Selenium	10 ST	7782-49-2	ug/l	2.8 U	2.1	1.6	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.1	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	12,500	20,100	24,100	17,500	23,600	27,900	24,000	20,700
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.67 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	95.3	4.6	3.6 U	NA	57.4	NA	NA	149
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	8,330	15,760	16,780	8,200	10,230	11,570	12,270	6,160

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)	MW-051 (ug/l)
			UNITS:									
Aluminum	-	7429-90-5	ug/l	NA	NA	49 B	NA	NA	NA	NA	98.6 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.3 B	NA	NA	NA	NA	3.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	7 B	NA	NA	NA	NA	5.6 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	83.3 B	NA	NA	NA	NA	85.6 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.1 U	NA	NA	NA	NA	0.19 U	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	139 B	NA	NA	NA	NA	132	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.56 B	0.30 U	0.23 U	0.23 U	0.46 B	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	43,700	48,100	49,000	40,200	55,000	55,000	53,400	51,600	59,200
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.6 U	NA	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	0.9 U	NA	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	0.9 U	NA	NA	NA	1.1 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	14,500	9,820	11,300	13,400	20,100	20,100	18,200	17,400	19,200
Lead	25 ST	7439-92-1	ug/l	1.1 U	0.70 U	0.7 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	2.7 B
Magnesium	35,000 GV	7439-95-4	ug/l	7,340	8,540	9,360	6,720	9,750	9,750	9,810	9,170	8,740
Manganese	300 ST	7439-96-5	ug/l	1,360	883	1,170	967	1,260	1,260	909	899	1,260
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.1 U	NA	NA	NA	1.2 U	NA	NA
Potassium	-	7440-09-7	ug/l	22,300	25,500	21,500	20,300	23,900	23,900	22,300	19,600	16,300
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	34,400	36,400	29,700	25,300	28,000	28,000	25,500	25,400	28,500
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	24.9 B	NA	NA	NA	52.8	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	15,860	10,703	12,470	14,367	21,360	21,360	19,109	18,299	20,460

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-051 11/30/2005 (ug/l)	MW-051 3/1/2006 (ug/l)	MW-051 5/18/2006 (ug/l)	MW-051 8/9/2006 (ug/l)	MW-051 11/30/2006 (ug/l)	MW-051 2/21/2007 (ug/l)	MW-051 5/25/2007 (ug/l)	MW-051 8/14/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	51.9 B	27.5 B	230	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	2.4 B	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	7.0 B	4.6 B	8.4 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	44.5 B	41.2 B	52.2 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.52 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	85.2 B	95.3 B	94.9 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.32 B	0.16 U	0.16 U
Calcium	-	7440-70-2	ug/l	73,800	49,200	61,700	66,600	41,200	44,000	41,600	39,100
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.87 B	1.3 B	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.70 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	3.0 B	20.2	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	22,600	15,500	19,100	22,700	13,900	11,000	14,800	16,700
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	1.9 U	1.9 U	1.5 U	2.4 B	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	9,560	7,510	7,360	8,960	5,770	6,620	6,280	5,700
Manganese	300 ST	7439-96-5	ug/l	1,500	1,010	1,200	1,900	1,670	1,300	1,720	3,170
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	17,500	18,300	19,500	20,900	12,700	14,500	14,600	13,200
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	2.3 B	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	37,100	26,200	30,100	34,600	24,000	29,300	33,900	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	4.5 B	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	61.2	35.4	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	24,100	16,510	20,300	24,600	15,570	12,300	16,520	19,870

NOTES:

- J: Estimated due to data validation criteria.
- ST: Standard.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- GV: Guidance value.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-051 11/13/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.38 B				
Calcium	-	7440-70-2	ug/l	41,100				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	1,750				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	6,340				
Manganese	300 ST	7439-96-5	ug/l	398				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	12,400 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	33,700				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	2,148				

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-055 10/29/1997 (ug/l)	MW-055 12/8/2000 (ug/l)	MW-055 2/2/2001 (ug/l)	MW-055 8/23/2002 (ug/l)	MW-055 11/22/2002 (ug/l)	MW-055 3/7/2003 (ug/l)	MW-055 6/5/2003 (ug/l)	MW-055 8/25/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	121	234	313	NA	540	NA	NA	534
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	4.5 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	6.0 B
Barium	1,000 ST	7440-39-3	ug/l	296	214	206	NA	164 B	NA	NA	326
Beryllium	3 GV	7440-41-7	ug/l	0.13	0.23	0.3	NA	0.4 U	NA	NA	0.59 B
Boron	1,000 ST	7440-42-8	ug/l	NA	254	226	NA	153	NA	NA	376
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	105,000	93,500	90,500	71,800	74,500	74,600	78,100	102,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	6.5	3.5 U	1.7	NA	6 U	NA	NA	1.5 B
Cobalt	-	7440-48-4	ug/l	1.3	0.9 U	1.7 U	NA	1 U	NA	NA	7.4 B
Copper	200 ST	7440-50-8	ug/l	0.7 U	1.5 U	1.5 U	NA	5.4 B	NA	NA	2.9 B
Iron	300 ST	7439-89-6	ug/l	32,000	29,500	29,800	28,700	26,100	27,700	28,100	38,000
Lead	25 ST	7439-92-1	ug/l	1.0 U	2.9	2.5	0.80 U	1.7 B	1.5 U	1.6 B	1.1 B
Magnesium	35,000 GV	7439-95-4	ug/l	17,900	13,300	12,900	8,580	7,910	9,790	10,100	14,700
Manganese	300 ST	7439-96-5	ug/l	3,370	3,860	3,940	5,100	5,260	5,500	6,320	3,460
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	4.6	1.9 U	1.4 U	NA	8.0 B	NA	NA	5.3 B
Potassium	-	7440-09-7	ug/l	20,600	14,000	14,300	10,600	9,940	11,500	11,900	13,000
Selenium	10 ST	7782-49-2	ug/l	2.8 U	3.1	2.4	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	2.1	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	35,000	28,500	27,300	26,300	27,700	25,900	25,500	23,500
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.8	2.5	2.6	NA	3.6 B	NA	NA	1.9 B
Zinc	2,000 ST	7440-66-6	ug/l	25	2.2 U	3.6 U	NA	33.9	NA	NA	112
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	35,270	32,160	33,740	33,400	31,360	26,200	34,420	41,460

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-05S 11/12/2003 (ug/l)	MW-05S 3/2/2004 (ug/l)	MW-05S 5/25/2004 (ug/l)	MW-05S 8/23/2004 (ug/l)	MW-05S 11/10/2004 (ug/l)	MW-05S 3/2/2005 (ug/l)	MW-05S 5/31/2005 (ug/l)	MW-05S 8/29/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	721	NA	NA	214	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	1.6 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	5 B	NA	NA	5.1 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	163 B	NA	NA	251	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.68 B	NA	NA	0.41 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	122 B	NA	NA	158	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.30 U	0.20 U	1.2 B	0.30 U	0.54 B	1.5 B	1.0 B	0.65 U
Calcium	-	7440-70-2	ug/l	102,000	69,500	49,800	95,800	86,300	66,900	88,000	110,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	2.5 B	NA	NA	0.91 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	14.7 B	NA	NA	11.3 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	0.96 B	NA	NA	1.2 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	23,500	26,000	31,500	41,500	29,000	31,600	45,100	43,300
Lead	25 ST	7439-92-1	ug/l	1.1 U	0.70 U	0.7 U	2.1 B	1.1 U	1.1 U	1.2 U	3.4
Magnesium	35,000 GV	7439-95-4	ug/l	14,200	9,650	7,280	12,100	10,900	9,740	12,200	14,400
Manganese	300 ST	7439-96-5	ug/l	6,780	4,570	2,570	4,600	5,910	3,460	4,940	5,370
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	7.7 B	NA	NA	7.4 B	NA	NA
Potassium	-	7440-09-7	ug/l	14,900	12,500	8,370	17,000	14,600	11,900	16,500	14,400
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	27,600	18,600	14,600	30,300	29,000	26,700	36,700	34,900
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	2 B	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	25 B	NA	NA	62.9	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	30,380	30,570	34,070	46,100	34,910	35,060	50,040	48,670

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

**SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
INORGANIC PARAMETERS**

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-055 11/30/2005 (ug/l)	MW-055 3/1/2006 (ug/l)	MW-055 5/18/2006 (ug/l)	MW-055 8/9/2006 (ug/l)	MW-055 11/30/2006 (ug/l)	MW-055 2/21/2007 (ug/l)	MW-055 6/1/2007 (ug/l)	MW-055 8/14/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	55.8 B	554	10.4 U	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	4.0 B	5.4 B	7.7 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	336	347	345	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.33 B	0.087 U	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	268 B	286 B	301 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	2.1 B	1.2 B	0.16 U
Calcium	-	7440-70-2	ug/l	129,000	141,000	125,000	122,000	112,000	109,000	109,000	11,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.4 B	1.3 B	0.43 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	5.9 B	6.9 B	3.3 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.0 B	4.0 B	2.2 B	NA
Iron	300 ST	7439-89-6	ug/l	44,200	35,400	34,200	41,000	44,600	47,500	46,800	48,500
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	3.4	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	16,900	20,300	15,700	14,600	14,000	14,600	14,100	14,900
Manganese	300 ST	7439-96-5	ug/l	6,050	4,640	5,130	6,240	4,790	4,500	4,710	4,560
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	4.5 B	4.2 B	4.8 B	NA
Potassium	-	7440-09-7	ug/l	17,700	23,700	18,600	17,800	18,200	20,900	17,800	18,400
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.71 B	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	36,500	43,800	36,800	33,700	39,700	42,000	37,000	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	5.3 B	6.6 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.7 B	2.7 B	2.4 B	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	17.3 B	20.7	9.6 B	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	50,250	40,040	39,530	47,240	49,390	52,080	51,510	53,060

NOTES:

J: Estimated due to data validation criteria

K: Concentration exceeds Standard/Guidance Value.

L: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-05S 11/13/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	96,400				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	55,300				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	12,500				
Manganese	300 ST	7439-96-5	ug/l	42,400				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	15,300 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	31,800				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	97,700				

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-06D 10/28/1997 (ug/l)	MW-06D 12/5/2000 (ug/l)	MW-06D 1/31/2001 (ug/l)	MW-06D 8/22/2002 (ug/l)	MW-06D 11/20/2002 (ug/l)	MW-06D 3/5/2003 (ug/l)	MW-06D 6/5/2003 (ug/l)	MW-06D 8/22/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	320	12.2 U	14.9	NA	19.3 B	NA	NA	17.2 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	4.6 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	3.2	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	15.1	23.8 B	20.1	NA	19 B	NA	NA	20.4 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	44.7 B	63.6	NA	63.2 B	NA	NA	54.9 B
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.16 B	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	5,070	4,640 B	4,290	7,740	6,460	7,600	6,200	5,050
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	1.3	3.5 U	0.6 U	NA	1.5 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	6.6	5.7 B	5.3	NA	6.2 B	NA	NA	5.3 B
Copper	200 ST	7440-50-8	ug/l	2.5	2.1 B	1.5 U	NA	6.6 B	NA	NA	1.3 B
Iron	300 ST	7439-89-6	ug/l	5,220	5,040	4,000	6,820	4,120	6,150	5,330	4,360
Lead	25 ST	7439-92-1	ug/l	1.0 U	1.4 U	1.1 U	0.80 U	1.4 U	1.5 U	2.6 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,040	1,930 B	1,800	4,020 B	3,300 B	3,580 B	2,740 B	2,080 B
Manganese	300 ST	7439-96-5	ug/l	6,800	8,160	7,680	12,300	9,440	11,700	11,200	8,720
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	3.3	2.3 B	2	NA	5.2 B	NA	NA	2.8 B
Potassium	-	7440-09-7	ug/l	1,140	1,220 B	1,260	1,560 B	1,180 B	1,540 B	1,680 B	1,140 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	4.3 B	2.9	NA	5.2	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	2.4 B	1.8	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	11,600	20,400	17,700	11,800	11,000	11,400	10,900	8,960
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.63 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	75.1	3.8 B	3.6 U	NA	31.8	NA	NA	8.8 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	12,020	13,200	11,680	19,620	13,560	17,850	16,530	13,080

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)	MW-06D (ug/l)
			UNITS:									
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	1.6 U	NA	NA	NA	NA	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	3.4 B	NA	NA	NA	NA	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	4 B	NA	NA	NA	NA	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	55.8 B	NA	NA	NA	NA	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.30 U	0.23 U	0.23 U	0.37 U	0.56 B	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	5,600	5,820	6,590	5,290	5,950	5,600	5,600	5,050	4,940 B
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.96 B	NA	NA	2.2 B	NA	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	0.9 B	NA	NA	5.9 B	NA	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	5.8 B	NA	NA	1.3 B	NA	NA	NA
Iron	300 ST	7439-89-6	ug/l	5,130	5,120	1,610	3,580	4,870	3,360	1,960	1,960	2,970
Lead	25 ST	7439-92-1	ug/l	2.4 B	1.6 U	1.8 B	1.2 U	2.2 B	1.1 U	1.2 U	1.2 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,390 B	2,470 B	2,530 B	2,380 B	2,490 B	2,520 B	2,440 B	2,440 B	2,110 B
Manganese	300 ST	7439-96-5	ug/l	12,500	10,000	3,730	8,490	9,160	9,350	8,530	8,530	9,170
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	5.7 B	NA	NA	4.2 B	NA	NA	NA
Potassium	-	7440-09-7	ug/l	1930 B	1340 B	1570 B	1440 B	1660 B	1590 B	1610 B	1610 B	1180 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 B	NA	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	1.2 B	NA	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	8,940	9,980	7,930	10,100	9,390	10,100	10,100	10,100	10,200
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	1.8 U	NA	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	45.8	NA	NA	69.2	NA	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	17,530	15,120	5,340	12,070	14,030	12,710	10,490	10,490	12,140

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-06D 11/29/2005 (ug/l)	MW-06D 2/28/2006 (ug/l)	MW-06D 5/18/2006 (ug/l)	MW-06D 8/9/2006 (ug/l)	MW-06D 12/1/2006 (ug/l)	MW-06D 2/22/2007 (ug/l)	MW-06D 5/24/2007 (ug/l)	MW-06D 8/10/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	17.5 B	22.0 B	82.3 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	2.7 B	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	25.9 B	6.4 U	2.2 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.52 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	146 B	150 B	147	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.28 U	0.16 U	0.25 B
Calcium	-	7440-70-2	ug/l	4,360 B	4,920 B	4,870 B	4,870 B	5,120	5,260	5,150	4,700 B
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.92 B	0.50 U	0.53 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	5.8 B	1.3 U	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	1.3 B	2.8 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	2,590	2,550	3,010	2,780	3,270	554	643	2,970
Lead	25 ST	7439-92-1	ug/l	2.1 B	1.3 U	2.4 B	1.9 U	1.5 U	2.0 B	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	1870 B	2340 B	2110 B	2060 B	2420 B	2,490 B	2,410 B	2,210 B
Manganese	300 ST	7439-96-5	ug/l	7,620	7,200	8,320	7,470	8,320	2,610	443	7,200
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	4.6 B	2.8 B	0.78 U	NA
Potassium	-	7440-09-7	ug/l	2,050 B	1,580 B	1,200 B	1,820 B	1,440 B	1,600 B	1,400 B	1,280 JB
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.99 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	9,940	11,300	10,600	8,750	10,300	10,400	10,400	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	44.0	U*	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	10,210	9,750	11,330	10,250	11,590	3,164	1,086	10,170

NOTES:

- J: Estimated due to data validation criteria.
- [Redacted] Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-06D 11/9/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	5,670				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	1,010				
Lead	25 ST	7439-92-1	ug/l	6.5 J				
Magnesium	35,000 GV	7439-95-4	ug/l	2,340 B				
Manganese	300 ST	7439-96-5	ug/l	1,300				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	1,580 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	9,930				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	2,310				

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-061 10/28/1997 (ug/l)	MW-061 12/5/2000 (ug/l)	MW-061 2/1/2001 (ug/l)	MW-061 8/21/2002 (ug/l)	MW-061 11/21/2002 (ug/l)	MW-061 3/5/2003 (ug/l)	MW-061 6/5/2003 (ug/l)	MW-061 8/22/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	140	17.6 B	16.4	NA	38.8 B	NA	NA	14.2 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	4.3	2.5 U	2.6	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	107	88.4 B	91.4	NA	39.9 B	NA	NA	51.5 B
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.14	NA	0.4 U	NA	NA	0.2 U
Boron	1,000 ST	7440-42-8	ug/l	NA	149	186	NA	209	NA	NA	337
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.29 B	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	33,300	36,900	36,000	19,700	19,100	20,500	20,300	22,400
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.73	3.5 U	0.6 U	NA	1.5 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	6.4	3 B	2.3	NA	1.1 B	NA	NA	2.5 B
Copper	200 ST	7440-50-8	ug/l	3.9	2.6 B	1.5 U	NA	9.6 B	NA	NA	2.2 B
Iron	300 ST	7439-89-6	ug/l	6,490	5,150	3,660	2,660	1,510	2,320	1,230	4,740
Lead	25 ST	7439-92-1	ug/l	1	1.4 U	1.1 U	1.9 B	1.4 U	1.5 U	1.9 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,810	4,020 B	3,680	1,890 B	1,980 B	1,790 B	1,970 B	2,000 B
Manganese	300 ST	7439-96-5	ug/l	2,100	805	807	383	277	392	278	843
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	2	1.9 U	1.4 U	NA	2.7 B	NA	NA	1.5 B
Potassium	-	7440-09-7	ug/l	7,680	8,540	9,670	5,500	4,310 B	5,080	5,200	5,290
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.75 B	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	14,000	19,600	17,400	10,700	9,230	9,870	10,000	11,400
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.62 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	61.4	5 B	3.6 U	NA	36.6	NA	NA	9.3 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	8,590	5,955	4,467	3,043	1,787	2,712	1,508	5,613

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)	MW-061 (ug/l)
			UNITS:								
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.2 U	0.30 U	0.23 U	0.37 U	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	21,600	19,700	18,700	19,600	29,600	28,600	24,400	20,100
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.69 B	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.2 B	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	9.3 B	NA	NA	7.2 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	4,570	4,510	2,250	1,580	3,530	996	1,750	1,420
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	0.7 U	1.2 U	1.7 B	1.1 U	1.2 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,100 B	1,930 B	2,200 B	2,020 B	3,370 B	3,770 B	2,480 B	1,680 B
Manganese	300 ST	7439-96-5	ug/l	861	807	325	229	844	248	407	262
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	4.5 B	NA	NA	2.5 B	NA	NA
Potassium	-	7440-09-7	ug/l	5,990	4,200 B	4,520 B	4,420 B	5,450	5,830	3,870 B	3,730 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	1.4 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	9,000	9,820	8,590	13,600	19,500	22,000	11,700	13,300
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	26.8 B	NA	NA	43.5	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	5,431	5,317	2,575	1,809	4,374	1,244	2,157	1,682

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-061	MW-061	MW-061	MW-061	MW-061	MW-061	MW-061	MW-061	MW-061	MW-061
			DATE:	11/29/2005	2/28/2006	5/18/2006	8/9/2006	12/1/2006	2/22/2007	5/24/2007	8/10/2007		
			UNITS:	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	12.4 B	33.2 B	72.8 B	NA		
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA		
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA		
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	104 B	81.5 B	76.0 B	NA		
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.51 B	NA		
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	276 B	302 B	277	NA		
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.28 U	0.16 U	0.16 U		
Calcium	-	7440-70-2	ug/l	32,000	45,300	30,000	28,900	28,400	27,500	24,800	21,300		
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA		
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.80 B	0.50 U	0.33 U	NA		
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	2.1 B	1.3 U	0.40 U	NA		
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	0.91 B	5.8 B	0.44 U	NA		
Iron	300 ST	7439-89-6	ug/l	3,580	4,080	2,840	3,030	2,620	732	971	827		
Lead	25 ST	7439-92-1	ug/l	2.3 B	1.3 U	1.9 U	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U		
Magnesium	35,000 GV	7439-95-4	ug/l	2,260 B	3,000 B	1,800 B	1,790 B	2,030 B	2,030 B	1,830 B	1,730 B		
Manganese	300 ST	7439-96-5	ug/l	600	831	481	410	393	147	114	247		
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1U	0.10 U	NA	NA		
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA		
Potassium	-	7440-09-7	ug/l	5,930	12,700	10,200	11,000	10,900	11,300	9,190	6,670 J		
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA		
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA		
Sodium	20,000 ST	7440-23-5	ug/l	15,100	26,100	13,900	13,500	14,200	14,000	13,600	U*		
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.3 B	2.2 U	NA		
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA		
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	9.4 B	U*	U*	NA		
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA		
Iron + Manganese	500 ST*	-	ug/l	4,180	4,911	3,321	3,440	3,013	879	1,085	1,074		

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detected based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-061 11/9/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	22,800				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	660				
Lead	25 ST	7439-92-1	ug/l	1.8 JB				
Magnesium	35,000 GV	7439-95-4	ug/l	1,940 B				
Manganese	300 ST	7439-96-5	ug/l	190				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	7,120 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	18,000				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	850				

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-06S 10/28/1997 (ug/l)	MW-06S 12/5/2000 (ug/l)	MW-06S 2/11/2001 (ug/l)	MW-06S 8/21/2002 (ug/l)	MW-06S 11/20/2002 (ug/l)	MW-06S 3/5/2003 (ug/l)	MW-06S 6/5/2003 (ug/l)	MW-06S 8/22/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	96.2	45.5 B	12.1	NA	143 B	NA	NA	77.2 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.9 B	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	9.6	3.2 B	8	NA	5.2 B	NA	NA	6.0 B
Barium	1,000 ST	7440-39-3	ug/l	306	121 B	101	NA	121 B	NA	NA	219
Beryllium	3 GV	7440-41-7	ug/l	0.1	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	162	183	NA	167	NA	NA	362
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.17 B	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	131,000	64,500	53,100	61,000	59,500	571,000	62,400	114,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	1.3	3.5 U	0.6 U	NA	1.9 B	NA	NA	1.8 B
Cobalt	-	7440-48-4	ug/l	2.2	0.9 U	1.7 U	NA	2.9 B	NA	NA	5.0 B
Copper	200 ST	7440-50-8	ug/l	0.7 U	1.5 U	1.5 U	NA	2.9 B	NA	NA	2.9 B
Iron	300 ST	7439-89-6	ug/l	58,700	48,000	40,000	37,700	31,900	25,400	29,000	46,700
Lead	25 ST	7439-92-1	ug/l	1.0 U	1.4 B	1.9	1.3 B	1.4 U	1.5 U	1.5 U	0.86 B
Magnesium	35,000 GV	7439-95-4	ug/l	16,400	6,280	4,680	5,550	5,080	5,480	6,040	12,300
Manganese	300 ST	7439-96-5	ug/l	837	843	430	804	1,050	930	1,790	2,570
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	2.9 B	NA	NA	4.8 B
Potassium	-	7440-09-7	ug/l	18,200	8250	8050	7,460	6,980	7,490	8,980	10,900
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.63 B	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	18,900	12,800	13,200	14,900	13,500	10,300	13,900	19,100
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	2 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	14.2	2.2 U	3.6 U	NA	6.1 B	NA	NA	67.6
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	59,537	48,543	40,430	38,504	32,950	26,350	30,790	49,270

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

**SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
INORGANIC PARAMETERS**

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-06S 11/11/2003 (ug/l)	MW-06S 2/27/2004 (ug/l)	MW-06S 5/24/2004 (ug/l)	MW-06S 8/20/2004 (ug/l)	MW-06S 11/9/2004 (ug/l)	MW-06S 3/1/2005 (ug/l)	MW-06S 5/25/2005 (ug/l)	MW-06S 8/25/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	34.7 B	NA	NA	69.1 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	1.6 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	6.4 B	NA	NA	7.3 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	125 B	NA	NA	137 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.1 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	279 B	NA	NA	203	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.61 B	0.30 U	0.57 B	1.1 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	78,800	96,000	69,000	107,000	63,700	58,500	71,580	96,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.2 B	NA	NA	0.63 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	3 B	NA	NA	2.3 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	0.9 U	NA	NA	1.1 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	26,500	43,900	20,700	52,700	37,500	34,300	10,120	37,800
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	0.7 U	1.5 B	1.1 U	1.1 U	1.9 B	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	8,330	10,800	9,770	12,800	6,250	6,490	11,390	11,800
Manganese	300 ST	7439-96-5	ug/l	2,250	3,190	1,550	1,230	1,050	908	213	1,210
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.6 B	NA	NA	1.5 B	NA	NA
Potassium	-	7440-09-7	ug/l	9,660	13,400	13,200	15,100	11,200	11,800	15,740	11,800
Selenium	10 ST	7782-49-2	ug/l	NA	NA	1.8 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.84 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	20,400	17,700	10,400	20,800	20,300	21,500	8,140	23,100
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	1.9 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	8.4 B	NA	NA	49.9	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	28,750	47,090	22,050	53,930	38,550	35,608	10,333	39,010

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-06S 11/29/2005 (ug/l)	MW-06S 2/28/2006 (ug/l)	MW-06S 5/22/2006 (ug/l)	MW-06S 8/9/2006 (ug/l)	MW-06S 12/1/2006 (ug/l)	MW-06S 2/22/2007 (ug/l)	MW-06S 5/24/2007 (ug/l)	MW-06S 8/10/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	32.6 B	218	747	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	8.0 B	6.1 B	4.6 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	256	189 B	231	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.70 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	408 B	281 B	304	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.32 B	0.12 U	0.34 U	0.28 U	0.91 B	0.16 U	0.16 U
Calcium	-	7440-70-2	ug/l	87,400	99,700	140,000	128,000	100,000	66,800	78,000	49,200
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.0 B	1.8 B	4.9 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	1.2 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	1.6 B	5.3 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	41,700	35,600	35,400	37,400	40,900	34,800	49,600	28,000
Lead	25 ST	7439-92-1	ug/l	4.6	1.3 U	1.1 U	2.4 B	1.5 U	1.5 U	1.1 U	1.1 U
Magnesium	35,000 GV	7439-95-4	ug/l	10,100	13,000	18,200	15,900	13,900	8,800	10,100	5,770
Manganese	300 ST	7439-96-5	ug/l	729	671	1,160	1,150	871	586	678	480
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	3.0 B	NA
Potassium	-	7440-09-7	ug/l	12,100	15,600	21,900	17,800	16,700	13,100	12,100	8,180
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.51 B	0.38 U	0.74 B	NA
Sodium	20,000 ST	7440-23-5	ug/l	22,900	23,500	25,700	20,000	20,100	18,000	21,500	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	4.9 B	2.2 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	3.5 B	6.7 B	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	75.7	U*	U*	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	42,429	36,271	36,560	38,550	41,771	35,386	50,278	28,480

NOTES:

J: Estimated due to data validation criteria.

K: Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-06S 11/9/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	78,900				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	51,100				
Lead	25 ST	7439-92-1	ug/l	1.4 UJ				
Magnesium	35,000 GV	7439-95-4	ug/l	10,200				
Manganese	300 ST	7439-96-5	ug/l	609				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	11,200 J				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	20,000				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	51,709				

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-071 10/28/1997 (ug/l)	MW-071 12/11/2000 (ug/l)	MW-071 1/31/2001 (ug/l)	MW-071 8/21/2002 (ug/l)	MW-071 11/20/2002 (ug/l)	MW-071 3/5/2003 (ug/l)	MW-071 6/3/2003 (ug/l)	MW-071 8/22/2003 (ug/l)
			UNITS:								
Aluminum	-	7429-90-5	ug/l	90.1	16 B	23.6	NA	37.1 B	NA	NA	13.9
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	32.2	39.6 B	29.3	NA	15.4 B	NA	NA	21.6 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	33 B	45.4	NA	30.1 B	NA	NA	38.1 B
Cadmium	5 ST	7440-43-9	ug/l	0.47	0.4 U	0.2 U	0.29 B	0.5 U	0.12 B	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	8,890	20,000	14,700	9,820	7,360	8,670	8,420	8,160
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.8	3.5 U	0.6 U	NA	0.8 U	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	2.3	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	1.6	1.5 U	1.5 U	NA	3.9 B	NA	NA	1.3 B
Iron	300 ST	7439-89-6	ug/l	396	26.2 B	35.2	350	172	53.9 B	41.4 B	45.0 B
Lead	25 ST	7439-92-1	ug/l	2.8	1.4 U	1.1 U	1.6 B	1.5 B	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,300	4,310 B	3,080	1,630 B	1,150 B	1,470	1,410 B	1,060 B
Manganese	300 ST	7439-96-5	ug/l	519	6,510	5,140	2,620	1,390	2,340	3,320	2,210
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	1.8	1.9 U	1.4 U	NA	1.1 U	NA	NA	1.5 U
Potassium	-	7440-09-7	ug/l	3,840	2,590 B	2,460	2,330 B	2,000 B	2,020 B	2,580 B	2,100 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.8	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1 B	1.6 U	NA	1 U	NA	NA	1.0 U
Sodium	20,000 ST	7440-23-5	ug/l	6,950	22,300	19,600	10,700	7,960	9,570	21,100	10,200
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	0.6 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	51.7	3.8 B	3.6 U	NA	27.9	NA	NA	8.4 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	915	6,536.2	5,175.2	2,970	1,562	2,393.9	3,361.4	2,255

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-071 11/11/2003 (ug/l)	MW-071 2/27/2004 (ug/l)	MW-071 5/20/2004 (ug/l)	MW-071 8/20/2004 (ug/l)	MW-071 11/9/2004 (ug/l)	MW-071 2/28/2005 (ug/l)	MW-071 5/27/2005 (ug/l)	MW-071 8/24/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	16.3 U	NA	NA	NA	77.4 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	NA	3.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	NA	2.5 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	34.3 B	NA	NA	NA	29.3 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	NA	0.19 U	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	28.9 B	NA	NA	NA	41.6 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.36 B	0.3 U	0.30 U	0.24 B	0.26 B	0.37 U	0.65 U
Calcium	-	7440-70-2	ug/l	7,020	12,400	13,300	10,800	12,200	12,600	13,900	17,300
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	1.2 B	NA	NA	NA	2.5 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	NA	1.3 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	4.2 B	NA	NA	NA	1.4 B	NA
Iron	300 ST	7439-89-6	ug/l	172	55.0 B	65.2 B	78.6 B	85.5 B	68.8 B	51.6 B	136
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.6 U	1.2 U	1.2 U	1.3 B	1.1 B	1.2 U	2.2 B
Magnesium	35,000 GV	7439-95-4	ug/l	1,290 B	1,960 B	2,150 B	1,660 B	1,940 B	2,040 B	2,310 B	2,340 B
Manganese	300 ST	7439-96-5	ug/l	1,210	4,770	5,700	4,490	5,050	4,800	4,700	3,730
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.6 U	NA	NA	NA	1.2 U	NA
Potassium	-	7440-09-7	ug/l	1,730 B	2,600 B	2,450 B	3,470 B	3,100 B	2,790 B	2,660 B	2,080 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	NA	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 B	NA	NA	NA	0.75 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	7,950	13,200	15,700	18,200	16,500	16,600	16,500	15,700
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	NA	2.7 U	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	20.4 B	NA	NA	NA	47.7	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA
Iron + Manganese	500 ST*	-	ug/l	1,382	4,875	5,765.2	4,568.6	5,135.5	4,868.8	4,751.6	3,860

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	DATE:	SITE:	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)	MW-071 (ug/l)
			UNITS:		11/29/2005	2/28/2006	5/22/2006	8/10/2006	11/28/2006	2/22/2007	5/24/2007	8/10/2007	
Aluminum	-	7429-90-5	ug/l		NA	NA	NA	NA	10.2 U	15.6 B	72.2 B	NA	
Antimony	3 GV	7440-36-0	ug/l		NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA	
Arsenic	25 ST	7440-38-2	ug/l		NA	NA	NA	NA	2.9 U	2.9 U	2.0 U	NA	
Barium	1,000 ST	7440-39-3	ug/l		NA	NA	NA	NA	32.6 B	31.3 B	53.0 B	NA	
Beryllium	3 GV	7440-41-7	ug/l		NA	NA	NA	NA	0.17 U	0.17 U	0.54 B	NA	
Boron	1,000 ST	7440-42-8	ug/l		NA	NA	NA	NA	33.4 B	39.1 B	41.0 B	NA	
Cadmium	5 ST	7440-43-9	ug/l		0.43 U	0.26 U	0.53 B	0.34 U	0.28 U	0.28 U	0.16 U	0.28 B	
Calcium	-	7440-70-2	ug/l		17,700	13,600	43,000	30,100	22,300	19,000	18,100	18,600	
Chromium Hexavalent	50 ST	18540-29-9	ug/l		NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	
Chromium Total	50 ST	7440-47-3	ug/l		NA	NA	NA	NA	0.50 U	0.92 B	0.33 U	NA	
Cobalt	-	7440-48-4	ug/l		NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA	
Copper	200 ST	7440-50-8	ug/l		NA	NA	NA	NA	2.2 B	5.1 B	0.44 U	NA	
Iron	300 ST	7439-89-6	ug/l		72.3 B	87.0 B	41.3 B	46.7 B	24.3 B	81.0 B	74.6 B	47.7 B	
Lead	25 ST	7439-92-1	ug/l		3.1	1.3 U	1.1 U	1.9 U	1.5 U	1.5 U	1.1 U	1.1 U	
Magnesium	35,000 GV	7439-95-4	ug/l		2,490 B	2,130 B	6,680	3,820 B	2,480 B	2,140 B	2,120 B	2,500 B	
Manganese	300 ST	7439-96-5	ug/l		2,650	2,940	6,600	2,890	1,010	142	310	486	
Mercury	0.7 ST	7439-97-6	ug/l		NA	NA	NA	NA	0.1U	0.10 U	NA	NA	
Nickel	100 ST	7440-02-0	ug/l		NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA	
Potassium	-	7440-09-7	ug/l		2,510 B	4,210 B	5,440	3,830 B	2,770 B	4,330 B	4,920 B	4,530 JB	
Selenium	10 ST	7782-49-2	ug/l		NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA	
Silver	50 ST	7440-22-4	ug/l		NA	NA	NA	NA	0.38 U	0.38 U	0.90 B	NA	
Sodium	20,000 ST	7440-23-5	ug/l		15,200	14,000	25,500	21,200	21,200	20,600	31,300	U*	
Thallium	0.5 GV	7440-28-0	ug/l		NA	NA	NA	NA	2.9 U	3.0 B	3.1 B	NA	
Vanadium	-	7440-62-2	ug/l		NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA	
Zinc	2,000 ST	7440-66-6	ug/l		NA	NA	NA	NA	45.5	U*	U*	NA	
Cyanide	200 ST	0057-12-5	ug/l		NA	NA	NA	NA	10.0 U	10.0 U	NA	NA	
Iron + Manganese	500 ST*	-	ug/l		2,722.3	3,027	6,641.3	2,936.7	1,034.3	223.0	384.6	533.7	

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-071 11/14/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32 U					
Calcium	-	7440-70-2	ug/l	73,600 J					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	24,600					
Lead	25 ST	7439-92-1	ug/l	1.4 U					
Magnesium	35,000 GV	7439-95-4	ug/l	11,200 J					
Manganese	300 ST	7439-96-5	ug/l	5,920 J					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	12,500					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	29,100 J					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	#VALUE!					

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11D 10/31/1997 (ug/l)	MW-11D 12/13/2000 (ug/l)	MW-11D 2/7/2001 (ug/l)	MW-11D 8/22/2002 (ug/l)	MW-11D 11/21/2002 (ug/l)	MW-11D 3/6/2003 (ug/l)	MW-11D 6/4/2003 (ug/l)	MW-11D 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	473	578	581	NA	717	NA	NA	629
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	27.8	34	31.9	NA	37.1 B	NA	NA	38.4 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.22	0.13	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	42.2	32.6	NA	311	NA	NA	144
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.22	0.28 B	0.5 U	0.10 U	0.11 B	0.30 U
Calcium	-	7440-70-2	ug/l	7,300	4,290	5,130	7,280	6,940	5,900	6,120	6,990
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.43	3.5 U	1.6	NA	1.6 B	NA	NA	1.3 B
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	0.7 U	2.3	1.5 U	NA	1.9 B	NA	NA	1.1 U
Iron	300 ST	7439-89-6	ug/l	153	16.7	30.6	566	261	155	59.9 B	43.5 B
Lead	25 ST	7439-92-1	ug/l	1 U	1.4 U	1.1 U	2.0 B	1.4 B	1.5 U	1.5 U	0.8 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,330	1,340	1,440	1,480 B	1,810 B	1,580 B	1,650 B	1,940 B
Manganese	300 ST	7439-96-5	ug/l	74.6	76.7	83.5	398	188	143	144	178
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	2.1	5.3	5.8	NA	12 B	NA	NA	12.4 B
Potassium	-	7440-09-7	ug/l	10,000	6,950	1,720	2,530 B	5,190	5,200	6,460	5,530
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	2	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.2	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	8,050	7,840	7,610	6,010	9,640	9,940	10,900	10,500
Thallium	0.5 GV	7440-28-0	ug/l	2.7	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.4	0.7 U	1.7 U	NA	0.6 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	19	2.8	13.6	NA	21	NA	NA	6.0 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	227.6	93.4	114.1	964	449	298	203.9	221.5

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	UNITS:	MW-11D 11/13/2003 (ug/l)	MW-11D 3/1/2004 (ug/l)	MW-11D 5/21/2004 (ug/l)	MW-11D 8/24/2004 (ug/l)	MW-11D 11/11/2004 (ug/l)	MW-11D 2/24/2005 (ug/l)	MW-11D 5/26/2005 (ug/l)	MW-11D 8/25/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	1250	NA	NA	1420	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	47.4 B	NA	NA	NA	55.2 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.22 B	NA	NA	NA	0.29 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	61 B	NA	NA	NA	65.4 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.22 B	0.3 U	0.57 B	0.23 U	0.23 U	2.8 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	7,920	8,560	11,800	14,100	8,100	8,100	11,200	8,680	7570
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	2.7 B	NA	NA	NA	2.6 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3.3 B	NA	NA	NA	2.4 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	162	38.0 B	556	1190	97.7 B	511	268	145	145
Lead	25 ST	7439-92-1	ug/l	1.2 B	1.6 U	4.2	8.8	1.1 U	3.4	2.0 B	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,140 B	2,330 B	2,080 B	2,650 B	2,050 B	2,700 B	2150 B	1940 B	1940 B
Manganese	300 ST	7439-96-5	ug/l	171	227	233	218	220	290	269	261	261
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	14 B	NA	NA	NA	17.1 B	NA	NA
Potassium	-	7440-09-7	ug/l	7,020	7,170	6,450	8,810	8,390	8,390	6,750	5,690	4900 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	NA	0.76 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	11,000	13,300	10,600	11,700	13,000	13,000	15,800	11,000	11,200
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	NA	2.1 B	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	13 B	NA	NA	NA	94	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	333	265	789	1,408	317.7	801	537	406	406

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11D 11/28/2005 (ug/l)	MW-11D 2/27/2006 (ug/l)	MW-11D 5/19/2006 (ug/l)	MW-11D 8/11/2006 (ug/l)	MW-11D 11/29/2006 (ug/l)	MW-11D 2/28/2007 (ug/l)	MW-11D 6/1/2007 (ug/l)	MW-11D 8/17/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	2,420	1,090	2,130	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	2.4 B	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	3.8 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	56.0 B	45.8 B	55.6 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.20 B	1.0 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	36.6 B	37.9 B	45.4 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	1.8 B	0.40 B	0.34 U	0.28 U	0.32 B	0.95 B	0.51 B
Calcium	-	7440-70-2	ug/l	8,870	16,700	9,320	8,670	10,900	13,500	18,500	13,500
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	2.0 B	1.5 B	3.8 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	1.2 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	4.4 B	1.6 B	3.7 B	NA
Iron	300 ST	7439-89-6	ug/l	177	1,600	300	242	1,600	128	1,640	56.0 B
Lead	25 ST	7439-92-1	ug/l	1.6 B	15.1	1.9 U	2.3 B	7.1	1.5 U	8.6	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,370 B	3,400 B	2,290 B	2,150 B	3,030 B	3,490 B	3,940 B	3,830 B
Manganese	300 ST	7439-96-5	ug/l	326	372	360	364	543	662	820	483
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	21.1 B	21.2 B	27.1 B	NA
Potassium	-	7440-09-7	ug/l	5,580	6,330	5,340	5,880	4,850 B	4,260 B	3,850 B	2,860 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	12,600	13,500	14,300	13,700	13,200	14,600	14,900	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	2.5 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	3.2 B	1.4 U	5.1 B	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	51.4	U*	37.3	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	503	1,972	660	606	2,143	790	2,460	539.0

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11D 11/14/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.41 B				
Calcium	-	7440-70-2	ug/l	11,300 J				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	956				
Lead	25 ST	7439-92-1	ug/l	4.3				
Magnesium	35,000 GV	7439-95-4	ug/l	3,390 JB				
Manganese	300 ST	7439-96-5	ug/l	462 J				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	3,450				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	17,400 J				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	#VALUE!				

NOTES:

- J: Estimated due to data validation criteria.
- Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

ST: Standard

GV: Guidance value

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-111 (ug/l)	MW-111 12/13/2000 (ug/l)	MW-111 2/7/2001 (ug/l)	MW-111 8/22/2002 (ug/l)	MW-111 11/21/2002 (ug/l)	MW-111 3/6/2003 (ug/l)	MW-111 6/4/2003 (ug/l)	MW-111 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	113	22.3	11.8 U	NA	32.8 B	NA	NA	23.8 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	22.2	13.1	10.3	NA	12.3 B	NA	NA	46.1 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	98.2	84	NA	207	NA	NA	124
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.23	0.20 B	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	10,200	9,570	9,150	8,810	15,000	15,400	16,400	77,300
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.4 U	3.5 U	0.6 U	NA	2.2 B	NA	NA	177
Cobalt	-	7440-48-4	ug/l	4.7	4	3.2	NA	5 B	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	3.1	2.4	1.5 U	NA	2.8 B	NA	NA	7.7 B
Iron	300 ST	7439-89-6	ug/l	191	24.1	10.2	313	130	63.3 B	58 B	908
Lead	25 ST	7439-92-1	ug/l	1.7 U	1.4 U	1.1 U	0.80 U	1.4 U	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	6,510	2,670	2,670	2,620 B	3,740 B	3,120 B	3,180 B	6750
Manganese	300 ST	7439-96-5	ug/l	245	1,590	1,340	394	327	1,000	1,500	248
Mercury	0.7 ST	7439-97-6	ug/l	0.3 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	4.3	3.5	2.5	NA	8.4 B	NA	NA	14.7 B
Potassium	-	7440-09-7	ug/l	3,870	2,690	2,270	1,640 B	1,740 B	1,830 B	2,050 B	14700
Selenium	10 ST	7782-49-2	ug/l	8.4 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	2.8 U	1.7	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	11,100	13,200	10,400	6,680	9,510	11,400	12,600	78,800
Thallium	0.5 GV	7440-28-0	ug/l	2.3 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	2.6 U	0.95	1.7 U	NA	0.6 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	100	5.4	4.1	NA	51.4	NA	NA	8.6
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	436	1,614.1	1,350.2	707	457	1,063.3	1,558	1,156

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-111 (ug/l)	MW-111 3/1/2004 (ug/l)	MW-111 5/21/2004 (ug/l)	MW-111 8/24/2004 (ug/l)	MW-111 11/11/2004 (ug/l)	MW-111 2/24/2005 (ug/l)	MW-111 5/26/2005 (ug/l)	MW-111 8/25/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	16.3 U	NA	NA	384	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	8.8 B	NA	NA	9.8 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	148 B	NA	NA	327	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.29 B	0.3 U	0.23 B	0.26 B	0.78 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	7,960	16,400	14,000	12,000	12,400	15,000	15,200	10,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.6 U	NA	NA	1.9 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	25.9 B	NA	NA	26.9 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3.8 B	NA	NA	3.1 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	56.5 B	31.2 B	29.7 B	26.2 B	30 B	410	25.6 B	53.4 B
Lead	25 ST	7439-92-1	ug/l	1.2 B	1.6 U	1.2 U	0.70 U	1.1 U	2.2 B	2.4 B	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,400 B	2,840 B	2,480 B	2,300 B	2,250 B	2,550 B	2,860 B	2,140 B
Manganese	300 ST	7439-96-5	ug/l	247	1,630	1,350	1,430	1,920	355	2,360	1,780
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	33.8 B	NA	NA	15.4 B	NA	NA
Potassium	-	7440-09-7	ug/l	1,420 B	1,690 B	1,300 B	1,720 B	1,510 B	1,490 B	1,500 B	1,160 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.6 B	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.8 B	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	13,900	14,400	6,370	7,180	8,760	9,660	12,300	11,900
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	4.7 B	NA	NA	76.9	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	303.5	1,661.2	1,379.7	1,456.2	1,950	765	2,385.6	1,833.4

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detected based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-111 (ug/l)	MW-111 2/27/2006 (ug/l)	MW-111 5/19/2006 (ug/l)	MW-111 8/11/2006 (ug/l)	MW-111 11/29/2006 (ug/l)	MW-111 2/28/2007 (ug/l)	MW-111 6/1/2007 (ug/l)	MW-111 8/16/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	45.0 B	35.3 B	50.8 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	2.9 B	2.0 U	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	7.1 B	6.4 U	5.8 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.32 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	53.8 B	55.8 B	53.7 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.75 B	0.16 U	0.99 B
Calcium	-	7440-70-2	ug/l	9,880	13,100	8,580	6,530	4,950 B	3,660 B	5,350	5,370
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	0.57 B	0.33 U	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.2 B	1.5 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	12.6 B	28.2 B	22.1 B	28.6 B	140	69.0 B	18.8 B	18.2 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	1.9 U	1.9 U	1.5 U	1.5 U	1.5 B	2.7 B
Magnesium	35,000 GV	7439-95-4	ug/l	1,960 B	2,780 B	1,590 B	1,190 B	996 B	752 B	1,050 B	1,090 B
Manganese	300 ST	7439-96-5	ug/l	1,700	2,560	1,870	1,460	971	138	973	286
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	1.8 U	0.78 U	NA
Potassium	-	7440-09-7	ug/l	1,170 B	1,910 B	1,350 B	2,100 B	1,230 B	1,470 B	1,420 B	1,400 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	10,400	14,500	13,700	10,500	8,020	8,330	6,180	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.9 B	3.5 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	177	U*	9.3 B	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	1,712.6	2,588.2	1,892.1	1,488.6	1,111	207	991.8	304.2

NOTES:

- J: Estimated due to data validation criteria.
- ST: Standard.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- GV: Guidance value.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-111 11/14/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32 U					
Calcium	-	7440-70-2	ug/l	5,980 J					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	25.1					
Lead	25 ST	7439-92-1	ug/l	1.4					
Magnesium	35,000 GV	7439-95-4	ug/l	1,420 J					
Manganese	300 ST	7439-96-5	ug/l	100 J					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	1,410					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	5,510 J					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	#VALUE!					

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detected based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11S 10/31/1997 (ug/l)	MW-11S 12/13/2000 (ug/l)	MW-11S 2/7/2001 (ug/l)	MW-11S 8/22/2002 (ug/l)	MW-11S 11/21/2002 (ug/l)	MW-11S 3/6/2003 (ug/l)	MW-11S 6/4/2003 (ug/l)	MW-11S 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	703	31.7	47.7	NA	127 B	NA	NA	17.4 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	30.5	27.3	24.1	NA	28.3 B	NA	NA	8.8 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	635	630	NA	206	NA	NA	160
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	39,100	58,600	53,800	46,600	51,800	51,500	78,300	9,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.73	3.5 U	9.8	NA	38.9	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	2.1	1.4	1.8	NA	1.8 B	NA	NA	18.2 B
Copper	200 ST	7440-50-8	ug/l	3.2	3.2	3	NA	2.9 B	NA	NA	1.8 B
Iron	300 ST	7439-89-6	ug/l	739	45.6	65.1	4,820	575	271	193	107
Lead	25 ST	7439-92-1	ug/l	1 U	1.4 U	1.1 U	0.80 U	1.4 U	1.5 U	1.5 B	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	4,000	6,250	5,770	4090 B	5,250	5,880	7,590	1750 B
Manganese	300 ST	7439-96-5	ug/l	1,820	5,290	4,340	1,230	1,270	843	541	624
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	2.6	3.1	3.3	NA	3.9 B	NA	NA	39.3 B
Potassium	-	7440-09-7	ug/l	8,620	9,070	7,980	6,970	6,570	9,540	15,100	1390 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	3	3	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	3.6	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	43,700	37,900	26,900	15,000	16,700	20,300	54,200	13,800
Thallium	0.5 GV	7440-28-0	ug/l	3.2	2.3 U	2.8 U	NA	4.2 U	NA	NA	3.2 B
Vanadium	-	7440-62-2	ug/l	1.8	0.98	1.7 U	NA	0.97 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	12.7	2.2 U	3.6 U	NA	15.2 B	NA	NA	6.6 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	2,559	5,335.6	4,405.1	6,050	1,845	1,114	734	731

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11S (ug/l)	MW-11S 5/21/2004 (ug/l)	MW-11S 8/24/2004 (ug/l)	MW-11S 11/11/2004 (ug/l)	MW-11S 2/24/2005 (ug/l)	MW-11S 5/26/2005 (ug/l)	MW-11S 8/25/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	39.9 B	NA	NA	153 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	2.4 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	3.6 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	31.4 B	NA	NA	28.8 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	0.2 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	176 B	NA	NA	324	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.3 U	0.20 U	0.23 U	0.23 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	66,600	53,300	63,600	72,800	73,000	63,500	58,000
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	64.7	NA	NA	36.5	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	1.8 B	NA	NA	2.8 B	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	8 B	NA	NA	5.9 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	636	772	40.4 B	67.9 B	708	392	160
Lead	25 ST	7439-92-1	ug/l	1.1 U	1.2 U	0.70 U	1.1 U	1.1 U	3.4	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	5,100	5,430	5,180	5,330	6,110	5,590	4,930 B
Manganese	300 ST	7439-96-5	ug/l	207	348	239	319	432	594	1,240
Mercury	0.7 ST	7439-97-6	ug/l	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	10.2 B	NA	NA	5.5 B	NA	NA
Potassium	-	7440-09-7	ug/l	15,100	12,000	15,100	13,000	12,700	9,800	9,520
Selenium	10 ST	7782-49-2	ug/l	NA	2.3 B	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	0.5 U	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	70,700	34,300	45,400	32,900	42,300	39,900	41,800
Thallium	0.5 GV	7440-28-0	ug/l	NA	2.8 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	3.9 B	NA	NA	46.3	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	10 U	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	843	1,120	279.4	386.9	1,140	986	1,400

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detected based on validation criteria.

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-11S 11/28/2005 (ug/l)	MW-11S 2/27/2006 (ug/l)	MW-11S 5/19/2006 (ug/l)	MW-11S 8/11/2006 (ug/l)	MW-11S 11/29/2006 (ug/l)	MW-11S 2/23/2007 (ug/l)	MW-11S 6/1/2007 (ug/l)	MW-11S 8/16/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	22.7 B	3,680	2,400	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	3.0 B	4.3 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	27.4 B	60.7 B	72.4 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17	0.19 B	0.46 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	86.3 B	82.4 B	83.3 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.28 U	0.25 B	0.32 B
Calcium	-	7440-70-2	ug/l	87,000	77,600	54,800	65,900	41,500	45,000	58,600	49,800
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	1.2 B	247	46.5	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	7.9 B	4.6 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	3.1 B	15.7 B	15.8 B	NA
Iron	300 ST	7439-89-6	ug/l	37.2 B	150	85.3 B	286	90.0 B	4,950	3,210	30.3 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 U	1.9 U	1.9 U	1.5 U	6.4	19.6	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	8,110	7,360	5,590	6,800	5,310	6,290	7,860	4,810 B
Manganese	300 ST	7439-96-5	ug/l	1,290	1,970	1,300	1,720	2,710	3,830	3,950	2,990
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.12 B	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	22.0 B	12.3 B	NA
Potassium	-	7440-09-7	ug/l	14,600	16,100	14,000	17,200	13,600	17,000	21,200	31,700
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	46,900	47,500	32,300	56,300	46,200	47,900	50,400	53,800
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	2.9 U	4.9 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	8.9 B	7.8 B	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	39.7	52.5	45.8	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	1,327.2	2,120	1,385	2,006	2,800	8,780	7,160	3,020.3

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- U*: Result qualified as non-detected based on validation criteria
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-IIS 11/14/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32					
Calcium	-	7440-70-2	ug/l	44,000 J					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	36.0 B					
Lead	25 ST	7439-92-1	ug/l	1.4 U					
Magnesium	35,000 GV	7439-95-4	ug/l	4,990 J					
Manganese	300 ST	7439-96-5	ug/l	3,120 J					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	29,900					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	54,900 J					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	#VALUE!					

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-12D 10/31/1997 (ug/l)	MW-12D 12/8/2000 (ug/l)	MW-12D 2/7/2001 (ug/l)	MW-12D 8/22/2002 (ug/l)	MW-12D 11/21/2002 (ug/l)	MW-12D 3/6/2003 (ug/l)	MW-12D 6/4/2003 (ug/l)	MW-12D 8/21/2003 (ug/l)
			UNITS:								
Aluminum	-	7429-90-5	ug/l	288	14.9	18.6	NA	43.5 B	NA	NA	19.9 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	6.5	1.5	2.9 U	NA	3.4 B	NA	NA	2.2 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	29.4	25.2	NA	16.1 B	NA	NA	24.8 B
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	8,460	3,180	3,660	2,580 B	3,860 B	5,990	6,940	6,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.87	3.5 U	1	NA	2 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	2.4	1.5 U	1.5 U	NA	1.8 B	NA	NA	1.1 U
Iron	300 ST	7439-89-6	ug/l	312	20.9	16.5	129	132	12.4 B	33.2 B	23.6 U
Lead	25 ST	7439-92-1	ug/l	1 U	1.4 U	1.1 U	0.80 U	1.4 U	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,330	1,520	1,760	1,000 B	1,590 B	2,630 B	3,080 B	2,900 B
Manganese	300 ST	7439-96-5	ug/l	82.5	1.8	1.4	11.6 B	4.7 B	3.9 B	1.9 B	1.3 B
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	NA	0.10 U
Nickel	100 ST	7440-02-0	ug/l	1.3 U	1.9 U	1.4 U	NA	1.5 B	NA	NA	1.5 U
Potassium	-	7440-09-7	ug/l	837	554	673	552 B	438 B	551 B	833 B	481 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	1.4	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	8,400	8,610	9,340	6,450	6,010	5,770	6,120	5,490
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2	0.7 U	1.7 U	NA	0.60 U	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	311	2.2 U	3.6 U	NA	24.1	NA	NA	2.4 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	394.5	22.7	17.9	129	136.7	16.3	35.1	24.9

NOTES:

J: Estimated due to data validation criteria.

K: Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

ST: Standard

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-12D (ug/l)	MW-12D 3/1/2004 (ug/l)	MW-12D 5/21/2004 (ug/l)	MW-12D 8/24/2004 (ug/l)	MW-12D 11/11/2004 (ug/l)	MW-12D 2/24/2005 (ug/l)	MW-12D 5/26/2005 (ug/l)	MW-12D 8/25/2005 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	16.3 U	NA	NA	73.7 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	4 U	NA	NA	1.7 U	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	19.4 B	NA	NA	30.6 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.57 B	0.3 U	0.20 U	0.23 U	0.23 U	0.65 U	0.68 B
Calcium	-	7440-70-2	ug/l	5,460	4,550 B	3,540 B	3,870 B	3,910 B	3,870 B	3,050 B	2,870 B
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.89 B	NA	NA	1.1 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	2 B	NA	NA	1.1 U	NA	NA
Iron	300 ST	7439-89-6	ug/l	21.9 B	58.3 B	33 B	98.1 B	4.0 B	30.8 B	20.2 B	57.3 B
Lead	25 ST	7439-92-1	ug/l	1.3 B	1.6 U	1.2 U	0.70 U	1.1 U	1.1 U	1.7	2.4 B
Magnesium	35,000 GV	7439-95-4	ug/l	2,340 B	1,940 B	1,530 B	1,720 B	1,660 B	1,640 B	1,250 B	1,210 B
Manganese	300 ST	7439-96-5	ug/l	1.8 B	3.1 B	2.6 B	1.4 B	0.58 B	1.0 B	1.2 U	1.9 B
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.6 U	NA	NA	1.2 U	NA	NA
Potassium	-	7440-09-7	ug/l	440 B	474 B	403 B	692 B	597 B	591 B	446 B	415 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.1 U	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	5,090	5,530	4,890 B	5,690	6,310	6,750	5,950	6,750
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	3 B	NA	NA	56.6	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	23.7	61.4	35.6	99.5	4.58	31.8	21.4	59.2

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSEDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-12D 11/28/2005 (ug/l)	MW-12D 2/27/2006 (ug/l)	MW-12D 5/19/2006 (ug/l)	MW-12D 8/11/2006 (ug/l)	MW-12D 11/29/2006 (ug/l)	MW-12D 2/23/2007 (ug/l)	MW-12D 6/1/2007 (ug/l)	MW-12D 8/16/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	37.4 B	795	61.1 B	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	3.0 B	3.9 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	6.4 U	71.3 B	3.1 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.37 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	16.8 B	22.2 B	19.3 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.28 U	0.16 U	0.28 U
Calcium	-	7440-70-2	ug/l	3,790 B	4,650 B	5,070	4,950 B	5,790	13,000	7,220	9,130
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	3.2 B	0.44 B	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 B	0.40 U	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	0.88 U	7.2 B	0.44 U	NA
Iron	300 ST	7439-89-6	ug/l	59.5 B	55.0 B	67.0 B	14.2 B	66.3 B	1.170	29.1 B	9.6 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.3 B	2.6 B	1.9 U	1.5 U	12.1	1.1 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,610 B	2,110 B	2,130 B	2,170 B	2,790 B	3,830 B	3,650 B	4,160 B
Manganese	300 ST	7439-96-5	ug/l	2.9 B	2.5 B	3.6 B	1.6 B	3.0 U	35.5	3.2 B	1.8 B
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1U	0.12 B	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	2.1 B	0.78 U	NA
Potassium	-	7440-09-7	ug/l	513 B	736 B	559 B	1640 B	651 B	1,100 B	740 B	810 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	7,180	7,230	7,200	6,930	6,290	7,200	6,370	7,780
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.5 B	5.6 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	2.5 B	1.1 U	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	40.3	63.5	8.4 B	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	62.4	57.5	69.6	15.8	66.3	1,205.5	32.3	11.4

NOTES:

J: Estimated due to data validation criteria.

K: Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-12D 11/14/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA
Antimony	3 GV	7440-36-0	ug/l	NA
Arsenic	25 ST	7440-38-2	ug/l	NA
Barium	1,000 ST	7440-39-3	ug/l	NA
Beryllium	3 GV	7440-41-7	ug/l	NA
Boron	1,000 ST	7440-42-8	ug/l	NA
Cadmium	5 ST	7440-43-9	ug/l	0.32 U
Calcium	-	7440-70-2	ug/l	11,500 J
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA
Cobalt	-	7440-48-4	ug/l	NA
Copper	200 ST	7440-50-8	ug/l	NA
Iron	300 ST	7439-89-6	ug/l	28.8 B
Lead	25 ST	7439-92-1	ug/l	1.4 U
Magnesium	35,000 GV	7439-95-4	ug/l	5,770 J
Manganese	300 ST	7439-96-5	ug/l	1.9 JB
Mercury	0.7 ST	7439-97-6	ug/l	NA
Nickel	100 ST	7440-02-0	ug/l	NA
Potassium	-	7440-09-7	ug/l	878 B
Selenium	10 ST	7782-49-2	ug/l	NA
Silver	50 ST	7440-22-4	ug/l	NA
Sodium	20,000 ST	7440-23-5	ug/l	9,580 J
Thallium	0.5 GV	7440-28-0	ug/l	NA
Vanadium	-	7440-62-2	ug/l	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA
Cyanide	200 ST	0057-12-5	ug/l	NA
Iron + Manganese	500 ST*	-	ug/l	30.7

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit

U*: Result qualified as non-detect based on validation criteria

ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-121 1031/1997 (ug/l)	MW-121 12/7/2000 (ug/l)	MW-121 2/8/2001 (ug/l)	MW-121 8/22/2002 (ug/l)	MW-121 11/21/2002 (ug/l)	MW-121 3/6/2003 (ug/l)	MW-121 6/4/2003 (ug/l)	MW-121 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	281	38.1 B	13.5	NA	88.5 B	NA	NA	23.4 B
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	25.1	20.2 B	12.6	NA	16.8 B	NA	NA	4.9 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	865	423	NA	47.6 B	NA	NA	42.4 B
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	13,000	13,500	9,680	4,240 B	6,480	4,390 B	6,470	4,020 B
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	0.4 U	3.5 U	0.6 U	NA	2.7 B	NA	NA	0.70 U
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	1.2 B	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	1	2.4 B	1.5 U	NA	2.8 B	NA	NA	1.1 U
Iron	300 ST	7439-89-6	ug/l	213	20.9 B	12.4	257	312	37.3 B	48.5 B	25.8 B
Lead	25 ST	7439-92-1	ug/l	1 U	1.4 U	1.1 U	0.80 U	1.9 B	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	4,930	3,600 B	2,400	1,220 B	1,680 B	1,250 B	2,120 B	1,260 B
Manganese	300 ST	7439-96-5	ug/l	1,290	1,300	1,070	345	289	153	233	132
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	NA	0.1 U	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	1.5	1.9 U	1.4 U	NA	3 B	NA	NA	1.5 U
Potassium	-	7440-09-7	ug/l	1520	2110 B	1810	915 B	1330 B	796 B	1180 B	692 B
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.65 B	1.6 U	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	10,800	22,500	13900	5,820	6,080	5,320	8,590	5,990
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.7 U	1.7 U	NA	1.4 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	39.2	13.7 B	9	NA	44.9	NA	NA	8.2 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	1,503	1,320.9	1,082.4	602	601	190.3	281.5	157.8

NOTES:

- J: Estimated due to data validation criteria.
 - [REDACTED] Concentration exceeds Standard/Guidance Value.
 - U: Analyzed for but not detected, value shown is instrument detection limit.
 - NA: Not analyzed.
 - B: Concentration is above instrument detection limit but below contract required detection limit.
 - U*: Result qualified as non-detect based on validation criteria
- ST: Standard.
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE:	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)
			UNITS:									
Aluminum	-	7429-90-5	ug/l	NA	NA	18.2 B	NA	NA	NA	1240	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	NA	3.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	NA	2.5 U	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	6 B	NA	NA	NA	54.7 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	2 U	NA	NA	NA	0.19 U	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	36.8 B	NA	NA	NA	69.9 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.21 B	0.3 U	0.39 B	0.32 B	0.32 B	1.2 B	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	4,040 B	3,880 B	3,270 B	5,770	8,850	8,850	21,700	4,200 B	6,480
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	NA	20 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	0.7 B	NA	NA	NA	6.1 B	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	NA	1.3 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3 B	NA	NA	NA	8.2 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	30.1 B	63.3 B	61.8 B	23.2 B	50.8 B	50.8 B	2,810	148	122
Lead	25 ST	7439-92-1	ug/l	1.5 B	1.6 U	1.2 U	0.70 U	1.1 U	1.1 U	12.4	3.4	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,280 B	1,160 B	982 B	1,840 B	2,470 B	2,470 B	2,980 B	1,030 B	1810 B
Manganese	300 ST	7439-96-5	ug/l	125	127	86.4	222	392	392	213	133	214
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	NA	0.1 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	1.6 U	NA	NA	NA	6.1 B	NA	NA
Potassium	-	7440-09-7	ug/l	688 B	7,571	658 B	1,280 B	1,750 B	1,750 B	3,620 B	973 B	1,090 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	2.5 B	NA	NA	NA	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	NA	0.75 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	5,900	5,350	4,700 B	7,400	9,940	9,940	24,900	6,960	9,820
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	NA	2.7 U	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	NA	4.9 B	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	19 B	NA	NA	NA	298	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	NA	10 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	155.1	190.3	148.2	245.2	442.8	442.8	3,023	281	336

NOTES:

- J: Estimated due to data validation criteria.
- [Redacted] Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria

ST: Standard.
GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)	MW-121 (ug/l)
			UNITS:	11/28/2005	2/27/2006	5/19/2006	8/11/2006	11/29/2006	2/23/2007	6/1/2007	8/16/2007	
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	29.9 B	120 B	52.6 B	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	4.1 B	2.8 B	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	20.2 B	25.0 B	12.8 B	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.17 U	0.30 B	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	142 B	88.2 B	67.8 B	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.73 B	0.34 U	0.34 U	0.28 U	3.9 B	0.16 U	0.28 U	0.28 U
Calcium	-	7440-70-2	ug/l	12,600	21,900	19,000	11,100	7,900	22,900	4,420 B	4,490 B	4,490 B
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	0.50 U	1.3 B	0.33 U	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	1.3 U	0.40 U	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	2.6 B	10.8 B	9.8 B	NA	NA
Iron	300 ST	7439-89-6	ug/l	13.4 B	249	69.1 B	7.5 B	67.3 B	165	31.7 B	17.5 B	17.5 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	5.3	2.0 B	1.9 U	1.5 U	2.3 B	1.1 U	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	3,390 B	3,860 B	3,710 B	2,180 B	1,670 B	2,680 B	707 B	686 B	686 B
Manganese	300 ST	7439-96-5	ug/l	443	389	940	585	395	3,470	368	374	374
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.12 B	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	1.8 U	3.2 B	0.78 U	NA	NA
Potassium	-	7440-09-7	ug/l	2,250 B	4,080 B	4,030 B	3,710 B	3,180 B	10,100	2,920 B	2,890 B	2,890 B
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	1.7 U	3.0 U	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	18,600	17,900	19,700	16,800	16,500	16,100	16,900	U*	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	3.5 B	3.6 B	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	1.4 U	1.1 U	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	48.5	136	16.6 B	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	456.4	638	1,009.1	592.5	462.3	3,635	399.7	391.5	391.5

NOTES:

- J: Estimated due to data validation criteria.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit.
- U*: Result qualified as non-detect based on validation criteria.
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-121 11/14/2007 (ug/l)				
Aluminum	-	7429-90-5	ug/l	NA				
Antimony	3 GV	7440-36-0	ug/l	NA				
Arsenic	25 ST	7440-38-2	ug/l	NA				
Barium	1,000 ST	7440-39-3	ug/l	NA				
Beryllium	3 GV	7440-41-7	ug/l	NA				
Boron	1,000 ST	7440-42-8	ug/l	NA				
Cadmium	5 ST	7440-43-9	ug/l	0.32 U				
Calcium	-	7440-70-2	ug/l	5,780 J				
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA				
Chromium Total	50 ST	7440-47-3	ug/l	NA				
Cobalt	-	7440-48-4	ug/l	NA				
Copper	200 ST	7440-50-8	ug/l	NA				
Iron	300 ST	7439-89-6	ug/l	24.2 U				
Lead	25 ST	7439-92-1	ug/l	1.4 U				
Magnesium	35,000 GV	7439-95-4	ug/l	889 JB				
Manganese	300 ST	7439-96-5	ug/l	650 J				
Mercury	0.7 ST	7439-97-6	ug/l	NA				
Nickel	100 ST	7440-02-0	ug/l	NA				
Potassium	-	7440-09-7	ug/l	2,150 B				
Selenium	10 ST	7782-49-2	ug/l	NA				
Silver	50 ST	7440-22-4	ug/l	NA				
Sodium	20,000 ST	7440-23-5	ug/l	10,700 J				
Thallium	0.5 GV	7440-28-0	ug/l	NA				
Vanadium	-	7440-62-2	ug/l	NA				
Zinc	2,000 ST	7440-66-6	ug/l	NA				
Cyanide	200 ST	0057-12-5	ug/l	NA				
Iron + Manganese	500 ST*	-	ug/l	650				

NOTES:

- J: Estimated due to data validation criteria.
- JB: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria
- ST: Standard.
- GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE: UNITS:	MW-12S 10/31/1997 (ug/l)	MW-12S 12/7/2000 (ug/l)	MW-12S 2/5/2001 (ug/l)	MW-12S 8/22/2002 (ug/l)	MW-12S "F" 8/22/2002 (ug/l)	MW-12S 11/21/2002 (ug/l)	MW-12S 3/6/2003 (ug/l)	MW-12S 6/4/2003 (ug/l)	MW-12S 8/21/2003 (ug/l)
Aluminum	-	7429-90-5	ug/l	275	135 B	109	NA	NA	182 B	NA	NA	13.9 U
Antimony	3 GV	7440-36-0	ug/l	3 U	1.7 U	12.3 U	NA	NA	3.1 U	NA	NA	3.5 U
Arsenic	25 ST	7440-38-2	ug/l	2.4 U	2.5 U	1.9 U	NA	NA	4.5 U	NA	NA	3.2 U
Barium	1,000 ST	7440-39-3	ug/l	24.7	35.5 B	32.6	NA	NA	32.7 B	NA	NA	29.1 B
Beryllium	3 GV	7440-41-7	ug/l	0.1 U	0.1 U	0.1 U	NA	NA	0.4 U	NA	NA	0.20 U
Boron	1,000 ST	7440-42-8	ug/l	NA	102	108	NA	NA	94.5 B	NA	NA	103
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.4 U	0.2 U	0.10 U	0.10 U	0.5 U	0.10 U	0.10 U	0.30 U
Calcium	-	7440-70-2	ug/l	32,500	33,500	38,700	45,800	45,600	42,500	40,400	28,700	46,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	20 U	20 U	20 U	NA	NA	20 U	NA	NA	20 U
Chromium Total	50 ST	7440-47-3	ug/l	8.3	8.7 B	3	NA	NA	52.5	NA	NA	9.5 B
Cobalt	-	7440-48-4	ug/l	1.1 U	0.9 U	1.7 U	NA	NA	1 U	NA	NA	2.1 U
Copper	200 ST	7440-50-8	ug/l	0.7 U	3.2 B	1.5 U	NA	NA	2.8 B	NA	NA	1.3 B
Iron	300 ST	7439-89-6	ug/l	326	170	88.4	23,200	2,390	504	231	81.8 B	63.5 B
Lead	25 ST	7439-92-1	ug/l	1.0 U	1.4 U	1.1 U	2.9 B	0.8 U	1.4 U	1.5 U	1.5 U	0.80 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,730	1,990 B	2,280	2,530 B	2,430 B	2,080 B	2,070 B	1,720 B	2,470 B
Manganese	300 ST	7439-96-5	ug/l	29.2	45	14.1	247	36.2	20.3	45.8	4.8 B	3.4 B
Mercury	0.7 ST	7439-97-6	ug/l	0.1 U	0.1 U	0.1 U	NA	NA	0.1 U	NA	NA	0.1 U
Nickel	100 ST	7440-02-0	ug/l	1.3 U	3.5 B	1.4 U	NA	NA	2.7 B	NA	NA	2.6 B
Potassium	-	7440-09-7	ug/l	14,700	14,900	15,400	14,400	14,200	10,700	13,500	9,400	10,700
Selenium	10 ST	7782-49-2	ug/l	2.8 U	1.7 U	1.5 U	NA	NA	2.4 U	NA	NA	3.8 U
Silver	50 ST	7440-22-4	ug/l	0.9 U	0.5 U	1.6 U	NA	NA	1 U	NA	NA	1 U
Sodium	20,000 ST	7440-23-5	ug/l	17,800	18,000	21,100	20,200	20,500	14,300	75,400	27,000	16,200
Thallium	0.5 GV	7440-28-0	ug/l	2.6 U	2.3 U	2.8 U	NA	NA	4.2 U	NA	NA	2.5 U
Vanadium	-	7440-62-2	ug/l	1.2 U	0.98 B	1.7 U	NA	NA	1.6 B	NA	NA	1.8 U
Zinc	2,000 ST	7440-66-6	ug/l	15	2.2 U	3.6 U	NA	NA	13.9 B	NA	NA	5.3 B
Cyanide	200 ST	0057-12-5	ug/l	10 U	10 U	5 U	NA	NA	10 U	NA	NA	10 U
Iron + Manganese	500 ST	-	ug/l	355.2	215	102.5	23,447	2,426.2	524.3	276.8	86.6	66.9

NOTES:

J: Estimated due to data validation criteria.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria.

"F": Filtered by lab for dissolved metals

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE DATE:	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)	MW-12S (ug/l)
			UNITS:	11/13/2003	3/1/2004	5/21/2004	8/24/2004	11/11/2004	2/24/2005	5/26/2005	8/25/2005	
Aluminum	-	7429-90-5	ug/l	NA	NA	22.3 B	NA	NA	79.2 B	NA	NA	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	2.4 U	NA	NA	3.6 U	NA	NA	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	3.6 U	NA	NA	2.5 U	NA	NA	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	26.8 B	NA	NA	40 B	NA	NA	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	0.2 U	NA	NA	0.19 U	NA	NA	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	57.3 B	NA	NA	66.5 B	NA	NA	NA
Cadmium	5 ST	7440-43-9	ug/l	0.3 U	0.20 U	0.3 U	0.20 U	0.23 U	0.23 U	0.65 U	0.65 U	0.65 U
Calcium	-	7440-70-2	ug/l	43,000	46,700	36,300	46,000	22,700	63,700	34,700	32,900	32,900
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	20 U	NA	NA	20 U	NA	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	41.6	NA	NA	36.8	NA	NA	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	1.5 U	NA	NA	1.3 U	NA	NA	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	3.9 B	NA	NA	3.5 B	NA	NA	NA
Iron	300 ST	7439-89-6	ug/l	40.6 B	324	330	203	310	287	796	1,410	1,410
Lead	25 ST	7439-92-1	ug/l	1.6 B	1.6 U	1.2 U	0.70 U	1.1 U	1.1 U	2.8 B	1.7 U	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	2,260 B	2,580 B	1,880 B	2,820 B	1,180 B	3,990 B	1,840 B	1,660 B	1,660 B
Manganese	300 ST	7439-96-5	ug/l	6.2 B	33.7	22.8	6.0 B	7.4 B	10.4 B	9.2 B	30.4	30.4
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	0.1 U	NA	NA	0.10 U	NA	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	10.6 B	NA	NA	16.1 B	NA	NA	NA
Potassium	-	7440-09-7	ug/l	26,900	17,500	15,000	12,600	7,410	21,500	13,100	8,730	8,730
Selenium	10 ST	7782-49-2	ug/l	NA	NA	3.1 B	NA	NA	3.0 U	NA	NA	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	0.5 U	NA	NA	1.2 B	NA	NA	NA
Sodium	20,000 ST	7440-23-5	ug/l	25,900	38,000	30,300	45,000	11,800	145,000	35,700	34,500	34,500
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	2.8 U	NA	NA	2.7 U	NA	NA	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	1.7 U	NA	NA	1.8 U	NA	NA	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	6 B	NA	NA	34	NA	NA	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	10 U	NA	NA	10 U	NA	NA	NA
Iron + Manganese	500 ST*	-	ug/l	46.8	357.7	352.8	209	317.4	297.4	805.2	1,440.4	1,440.4

NOTES:

- J: Estimated due to data validation criteria.
- K: Concentration exceeds Standard/Guidance Value.
- U: Analyzed for but not detected, value shown is instrument detection limit.
- NA: Not analyzed.
- B: Concentration is above instrument detection limit but below contract required detection limit
- U*: Result qualified as non-detected based on validation criteria

"F": Filtered by lab for dissolved metals
 ST: Standard
 GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-12S 11/28/2005 (ug/l)	MW-12S 2/27/2006 (ug/l)	MW-12S 5/19/2006 (ug/l)	MW-12S 8/11/2006 (ug/l)	MW-12S 11/29/2006 (ug/l)	MW-12S 2/23/2007 (ug/l)	MW-12S 6/1/2007 (ug/l)	MW-12S 8/16/2007 (ug/l)
Aluminum	-	7429-90-5	ug/l	NA	NA	NA	NA	10.2 U	5.050	3.530	NA
Antimony	3 GV	7440-36-0	ug/l	NA	NA	NA	NA	3.2 U	3.2 U	1.6 U	NA
Arsenic	25 ST	7440-38-2	ug/l	NA	NA	NA	NA	2.9 U	8.0 B	7.1 B	NA
Barium	1,000 ST	7440-39-3	ug/l	NA	NA	NA	NA	26.1 B	39.8 B	30.4 B	NA
Beryllium	3 GV	7440-41-7	ug/l	NA	NA	NA	NA	0.17 U	0.27 B	0.59 B	NA
Boron	1,000 ST	7440-42-8	ug/l	NA	NA	NA	NA	57.0 B	46.8 B	37.6 B	NA
Cadmium	5 ST	7440-43-9	ug/l	0.43 U	0.26 U	0.34 U	0.34 U	0.28 U	0.29 B	0.21 B	0.28 U
Calcium	-	7440-70-2	ug/l	31,100	35,100	21,800	15,500	26,500	27,400	22,700	24,600
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA
Chromium Total	50 ST	7440-47-3	ug/l	NA	NA	NA	NA	7.6 B	320	72.4	NA
Cobalt	-	7440-48-4	ug/l	NA	NA	NA	NA	1.3 U	5.5 B	3.5 B	NA
Copper	200 ST	7440-50-8	ug/l	NA	NA	NA	NA	1.6 B	12.9 B	6.0 B	NA
Iron	300 ST	7439-89-6	ug/l	87.3 B	469	97.3 B	629	203	9,180	7,040	21.2 B
Lead	25 ST	7439-92-1	ug/l	1.6 U	1.8 B	1.9 U	1.9 U	1.5 U	4.8	3.0 B	1.7 U
Magnesium	35,000 GV	7439-95-4	ug/l	1,710 B	2,550 B	1,430 B	1,040 B	1,920 B	2,290 B	2,290 B	2,000 B
Manganese	300 ST	7439-96-5	ug/l	5.6 B	13.3 B	6.8 B	35	4.0 B	412	295	2.2 B
Mercury	0.7 ST	7439-97-6	ug/l	NA	NA	NA	NA	0.1 U	0.10 U	NA	NA
Nickel	100 ST	7440-02-0	ug/l	NA	NA	NA	NA	6.8 B	29.1 B	16.6 B	NA
Potassium	-	7440-09-7	ug/l	12,400	13,400	21,000	29,800	20,800	17,500	11,400	17,900
Selenium	10 ST	7782-49-2	ug/l	NA	NA	NA	NA	1.7 U	2.4 B	3.0 U	NA
Silver	50 ST	7440-22-4	ug/l	NA	NA	NA	NA	0.38 U	0.38 U	0.51 U	NA
Sodium	20,000 ST	7440-23-5	ug/l	30,700	43,400	26,900	23,400	23,100	20,400	18,600	U*
Thallium	0.5 GV	7440-28-0	ug/l	NA	NA	NA	NA	2.9 U	5.0 B	5.5 B	NA
Vanadium	-	7440-62-2	ug/l	NA	NA	NA	NA	1.4 U	14.0 B	9.3 B	NA
Zinc	2,000 ST	7440-66-6	ug/l	NA	NA	NA	NA	36.0	52.2	23.9	NA
Cyanide	200 ST	0057-12-5	ug/l	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA
Iron + Manganese	500 ST*	-	ug/l	92.9	482.3	100.1	664	207	9,592	7,335	23.4

NOTES:

J: Estimated due to data validation criteria.

Concentration exceeds Standard/Guidance Value.

U: Analyzed for but not detected, value shown is instrument detection limit.

NA: Not analyzed.

B: Concentration is above instrument detection limit but below contract required detection limit.

U*: Result qualified as non-detect based on validation criteria

"F": Filtered by lab for dissolved metals

ST: Standard.

GV: Guidance value.

Appendix B-2

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 INORGANIC PARAMETERS

CONSTITUENT	NYSDEC Class GA Groundwater Standards/ Guidance Values	CAS #	SITE: DATE: UNITS:	MW-12S 11/14/2007 (ug/l)					
Aluminum	-	7429-90-5	ug/l	NA					
Antimony	3 GV	7440-36-0	ug/l	NA					
Arsenic	25 ST	7440-38-2	ug/l	NA					
Barium	1,000 ST	7440-39-3	ug/l	NA					
Beryllium	3 GV	7440-41-7	ug/l	NA					
Boron	1,000 ST	7440-42-8	ug/l	NA					
Cadmium	5 ST	7440-43-9	ug/l	0.32 U					
Calcium	-	7440-70-2	ug/l	27,000 J					
Chromium Hexavalent	50 ST	18540-29-9	ug/l	NA					
Chromium Total	50 ST	7440-47-3	ug/l	NA					
Cobalt	-	7440-48-4	ug/l	NA					
Copper	200 ST	7440-50-8	ug/l	NA					
Iron	300 ST	7439-89-6	ug/l	132					
Lead	25 ST	7439-92-1	ug/l	1.4 U					
Magnesium	35,000 GV	7439-95-4	ug/l	1,720 JB					
Manganese	300 ST	7439-96-5	ug/l	2.8 JB					
Mercury	0.7 ST	7439-97-6	ug/l	NA					
Nickel	100 ST	7440-02-0	ug/l	NA					
Potassium	-	7440-09-7	ug/l	17,600					
Selenium	10 ST	7782-49-2	ug/l	NA					
Silver	50 ST	7440-22-4	ug/l	NA					
Sodium	20,000 ST	7440-23-5	ug/l	22,000 J					
Thallium	0.5 GV	7440-28-0	ug/l	NA					
Vanadium	-	7440-62-2	ug/l	NA					
Zinc	2,000 ST	7440-66-6	ug/l	NA					
Cyanide	200 ST	0057-12-5	ug/l	NA					
Iron + Manganese	500 ST*	-	ug/l	134.8					

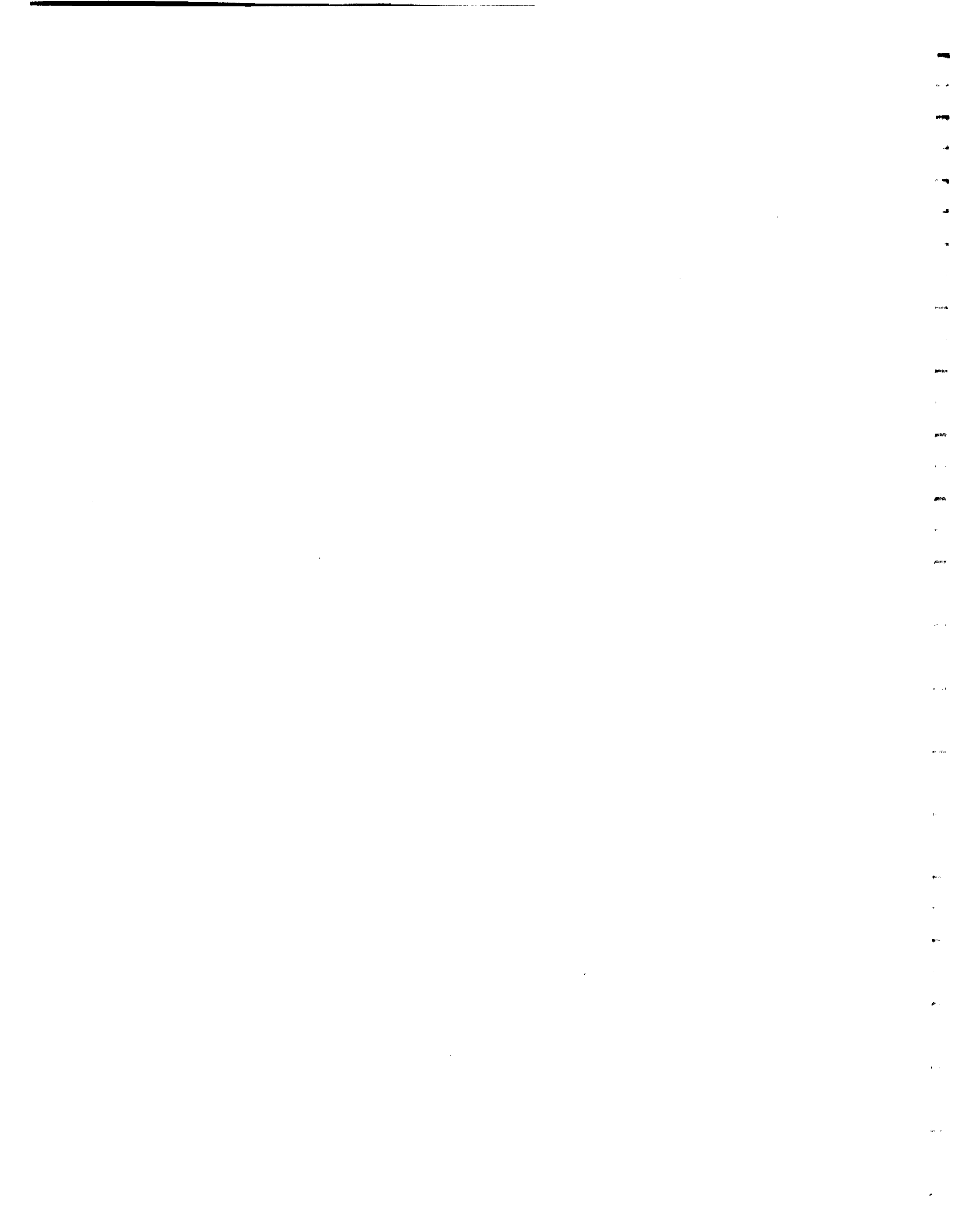
NOTES:

J: Estimated due to data validation criteria.
 U: Analyzed for but not detected, value shown is instrument detection limit.
 NA: Not analyzed.
 B: Concentration is above instrument detection limit but below contract required detection limit
 U*: Result qualified as non-detected based on validation criteria

"F": Filtered by lab for dissolved metals
 ST: Standard.
 GV: Guidance value.

APPENDIX B-3

Volatile Organic Compounds



SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-01D 10/24/1997 (ug/l)	MW-01D 1/28/1998 (ug/l)	MW-01D 1/30/2000 (ug/l)	MW-01D 1/30/2001 (ug/l)	MW-01D 11/20/2002 (ug/l)	MW-01D 8/21/2003 (ug/l)	MW-01D 5/20/2004 (ug/l)	MW-01D 2/28/2005 (ug/l)	MW-01D 11/29/2006 (ug/l)	MW-01D 2/21/2007 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	10/24/1997	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	10/24/1997	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	10/24/1997	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	10/24/1997	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	10/24/1997	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	10/24/1997	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	10/24/1997	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	10/24/1997	000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	10/24/1997	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	10/24/1997	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	10/24/1997	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	10/24/1997	000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	10/24/1997	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	10/24/1997	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	10/24/1997	000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	10/24/1997	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	10/24/1997	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	10/24/1997	000156-59-2	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	3 J	5 U	5 ST
trans-1,2-Dichloroethene	10/24/1997	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	10/24/1997	000056-23-5	0.4 U	20 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	10/24/1997	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Acetone	10/24/1997	000630-20-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	10/24/1997	000067-66-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	10/24/1997	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,1-Trichloroethane	10/24/1997	000071-55-6	66	170	5 U	10 U	5 U	3 J	1 J	5 U	5 U	5 U	5 ST
Bromomethane	10/24/1997	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	10/24/1997	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	10/24/1997	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	10/24/1997	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	10/24/1997	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	10/24/1997	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	10/24/1997	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	10/24/1997	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	10/24/1997	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	10/24/1997	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloroethane	10/24/1997	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	10/24/1997	000075-34-3	13	22	3 J	3 J	3 J	23	16	3 J	1 J	5 U	5 ST
1,1-Dichloroethene	10/24/1997	000075-35-4	5 J	15	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	10/24/1997	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	10/24/1997	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	10/24/1997	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	10/24/1997	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	10/24/1997	000079-01-6	0.4 U	10.0 U	4 J	3 J	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	10/24/1997	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	10/24/1997	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	10/24/1997	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	10/24/1997	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	10/24/1997	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs	10/24/1997	84	227	15	15	13.1	3	26	17	3	4	11	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	MW-011 10/24/1997	MW-011 1/28/1998	MW-011 11/30/2000	MW-011 1/30/2001	MW-011 11/20/2002	MW-011 8/21/2003	MW-011 5/20/2004	MW-011 2/28/2005	MW-011 11/29/2006	MW-011 2/21/2007	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Date of Collection											
Volatile Organic Compounds											
Ethylbenzene	000100-41-4 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,4-Dichlorobenzene	000106-46-7 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromoethane	000106-93-4 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
1,2-Dichloroethane	000107-06-2 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acrylonitrile	000107-13-1 NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Vinyl Acetate	000108-05-4 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7 0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000340-59-0 0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000391-78-6 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6 22	5.1 J	14	8.0 J	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3 0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-271-4 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4 0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2 0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3 14	13	13	8.5 J	5 J	2 J	2 J	2 J	2 J	2 J	5 ST
1,1,1-Dichloroethene	000075-35-4 2 J	10.0 U	2 J	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Trichloroethene	000079-00-5 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2-Trichloroethane	000079-01-6 0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5 0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4 NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6 NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs	38	18.1	29	16.5	53	2	U	2	U	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NS: Not Sampled
 Parameter exceeds Standard/Guidance Value

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-01S 10/24/1997 (ug/l)	MW-01S 1/28/1998 (ug/l)	MW-01S 1/30/2000 (ug/l)	MW-01S 1/29/2001 (ug/l)	MW-01S 11/20/2002 (ug/l)	MW-01S 8/21/2003 (ug/l)	MW-01S 5/20/2004 (ug/l)	MW-01S 2/28/2005 (ug/l)	MW-01S 11/29/2006 (ug/l)	MW-01S 2/21/2007 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	7	8	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromochloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	8 J	12	3 J	2 J	2 J	3 J	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	0.4 U	10.0 U	2 J	3 J	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		8	12	12	13.5	2	3	U	2	U	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-02D 10/27/1997 (ug/l)	MW-02D 1/28/1998 (ug/l)	MW-02D 12/1/2000 (ug/l)	MW-02D 1/30/2001 (ug/l)	MW-02D 11/20/2002 (ug/l)	MW-02D 8/22/2003 (ug/l)	MW-02D 5/20/2004 (ug/l)	MW-02D 02/28/05 (ug/l)	MW-02D 11/30/06 (ug/l)	MW-02D 02/22/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	1 J	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethane	000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropane	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		U	U	U	U	I	U	U	U	U	U	U

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NA*: Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	MW-021 10/27/1997 (ug/l)	MW-021 1/28/1998 (ug/l)	MW-021 12/1/2000 (ug/l)	MW-021 1/30/2001 (ug/l)	MW-021 11/20/2002 (ug/l)	MW-021 8/21/2003 (ug/l)	MW-021 5/20/2004 (ug/l)	MW-021 02/28/05 (ug/l)	MW-021 11/30/06 (ug/l)	MW-021 02/22/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethane	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane (total)	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	0.6 U	10.0 U	5 U	10 U	5 U	5 U	3 U	5 U	5 U	5 U	5 ST
Bromomethane	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	0.4 U	10.0 U	5 U	10 U	5 U	5 U	1 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	0.4 U	10.0 U	5 U	1.8 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromo-3-chloropropane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs	U	U	U	1.8 U	U	U	4	U	U	U	U

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 █: Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-02S 10/27/1997 (ug/l)	MW-02S 1/28/1998 (ug/l)	MW-02S 11/30/2000 (ug/l)	MW-02S 1/31/2001 (ug/l)	MW-02S 11/20/2003 (ug/l)	MW-02S 8/21/2003 (ug/l)	MW-02S 5/20/2004 (ug/l)	MW-02S 2/28/2005 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds										
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	3 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	NS	NS	NS	NS	0.6 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	NS	NS	NS	NS	-
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	NS	NS	NS	NS	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NS	NS	NS	NS	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	NS	NS	NS	NS	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	1 ST
2-Butanone	000079-00-3	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	50 GV
1,1,2-Trichloroethane	000079-01-6	0.4 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	NS	NS	NS	NS	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	NS	NS	NS	NS	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	NS	NS	NS	NS	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	NS	NS	NS	NS	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NS	NS	NS	NS	5 ST
TOTAL VOCs		U	U	U	U	NS	NS	NS	NS	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NS: Not Sampled
 Parameter exceeds Standard/Guidance Value

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-03D 10/30/1997 (ug/l)	MW-03D 2/2/1998 (ug/l)	MW-03D 12/7/2000 (ug/l)	MW-03D 2/2/2001 (ug/l)				NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds										
Ethylbenzene		000100-41-4	1.40 U	10.0 U	5 U	10 U				5 ST
Styrene		000100-42-5	1.40 U	10.0 U	5 U	10 U				5 ST
cis-1,3-Dichloropropene		010061-01-5	1.40 U	10.0 U	5 U	10 U				0.4 ST
trans-1,3-Dichloropropene		010061-02-6	1.80 U	10.0 U	5 U	10 U				0.4 ST
1,4-Dichlorobenzene		000106-46-7	NA	NA	5 U	10 U				3 ST
1,2-Dibromoethane		000106-93-4	NA	NA	5 U	10 U				5 ST
1,2-Dichloroethane		000107-06-2	1.40 U	10.0 U	5 U	10 U				0.6 ST
Acrylonitrile		000107-13-1	NA	NA	5 U	50 U				5 ST
Vinyl Acetate		000108-05-4	NA	NA	5 U	10 U				-
4-Methyl-2-pentanone		000108-10-1	1.40 U	10.0 U	5 U	10 U				5 ST
Toluene		000108-88-3	1.20 U	10.0 U	5 U	10 U				5 ST
Chlorobenzene		000108-90-7	1.40 U	10.0 U	5 U	10 U				5 ST
trans-1,4-Dichloro-2-butene		000110-57-6	NA	NA	5 U	10 U				5 ST
Dibromochloromethane		000124-48-1	2.20 U	10.0 U	5 U	10 U				50 GV
Tetrachloroethene		000127-18-4	2.0 U	2.0 U	5 U	10 U				5 ST
Xylene (total)		001330-20-7	1.60 U	10.0 U	5 U	10 U				5 ST
1,2-Dichloroethene (total)		000540-59-0	2.60 U	10.0 U	NA	10 U				5 ST
cis-1,2-Dichloroethene		000156-59-2	NA	NA	5 U	10 U				5 ST
trans-1,2-Dichloroethene		000156-60-5	NA	NA	5 U	10 U				5 ST
Carbon tetrachloride		000056-23-5	1.80 U	3.0 U	5 U	10 U				50 GV
2-Hexanone		000591-78-6	1.40 U	10.0 U	5 U	10 U				5 ST
1,1,1,2-Tetrachloroethane		000630-20-6	NA	NA	5 U	10 U				5 ST
Acetone		000067-64-1	3.40 U	10.0 U	5 U	10 U				50 GV
Chloroform		000067-66-3	1.40 U	10.0 U	5 U	10 U				50 GV
Benzene		000071-43-2	1.40 U	10.0 U	5 U	10 U				7 ST
1,1,1-Trichloroethane		000071-55-6	61	18	2 J	2.1 J				1 ST
Bromomethane		000074-83-9	1.40 U	10.0 U	5 U	10 U				5 ST
Chloromethane		000074-87-3	1.40 U	10.0 U	5 U	10 U				5 ST
Iodomethane		000074-88-4	NA	NA	5 U	10 U				5 ST
Dibromomethane		000074-95-3	NA	NA	5 U	10 U				5 ST
Bromodichloromethane		000075-27-4	1.80 U	10.0 U	5 U	10 U				50 GV
Chloroethane		000075-00-3	1.40 U	10.0 U	5 U	10 U				5 ST
Vinyl chloride		000075-01-4	1.40 U	10.0 U	5 U	10 U				5 ST
Methylene chloride		000075-09-2	1.40 U	2.5 J	5 U	10 U				2 ST
Carbon disulfide		000075-15-0	1.20 U	10.0 U	5 U	10 U				5 ST
Bromoform		000075-25-2	1.80 U	10.0 U	5 U	10 U				60 GV
Bromochloromethane		000074-97-5	NA	NA	5 U	10 U				50 GV
1,1-Dichloroethane		000075-34-3	10 J	3.5 J	4 J	3.5 J				5 ST
1,1-Dichloroethene		000075-35-4	9 J	2.9 J	5 U	10 U				5 ST
Trichlorofluoromethane		000075-69-4	NA	NA	5 U	10 U				5 ST
1,2-Dichloropropane		000078-87-5	1.40 U	10.0 U	5 U	10 U				5 ST
2-Butanone		000078-93-3	2.20 U	10.0 U	5 U	10 U				50 GV
1,1,2-Trichloroethane		000079-00-5	2.00 U	10.0 U	5 U	10 U				5 ST
Trichloroethene		000079-01-6	1 J	10.0 U	5 U	1.1 J				5 ST
1,1,2,2-Tetrachloroethane		000079-34-5	2.20 U	10.0 U	5 U	10 U				5 ST
1,2-Dichlorobenzene		000095-50-1	NA	NA	5 U	10 U				5 ST
1,2-Dibromo-3-chloropropane		000096-12-8	NA	NA	5 U	10 U				0.04 ST
1,2,3-Trichloropropane		000096-18-4	NA	NA	5 U	2.1 J				0.04 ST
1,1-Dichloropropene		000563-58-6	NA	NA	NA	10 U				5 ST
TOTAL VOCs			81	31.9	6	8.8				

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-031 10/30/1997 (ug/l)	MW-031 2/2/1998 (ug/l)	MW-031 12/7/2000 (ug/l)	MW-031 2/2/2001 (ug/l)					NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds										
Ethylbenzene	000100-41-4	1.40 U	1.40 U	5 U	10 U					5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U					5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U					0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U					0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U					3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U					5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U					0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U					5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U					-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U					5 ST
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U					5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U					5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U					50 GV
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U					5 ST
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U					5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U					5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U					5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U					5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U					5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U					5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U					50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U					5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U					50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U					7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U					1 ST
1,1,1-Trichloroethane	000071-55-6	12	9.8 J	2 J	1.9 J					5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U					5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U					5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U					5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U					5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U					50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	10 U					5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U					2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5 U	10 U					5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U					60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U					50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U					5 ST
1,1-Dichloroethane	000075-34-3	46	36	2 J	2.4 J					5 ST
1,1-Dichloroethene	000075-35-4	5 J	3.6 J	5 U	10 U					5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U					5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U					1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U					50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U					5 ST
Trichloroethene	000079-01-6	3 J	3 J	5 U	10 J					5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U					5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U					3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U					0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	1.5 J					0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U					5 ST
TOTAL VOCs		66	52.4	4	6.8					

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	10/28/1997	1/28/1998	12/6/2000	2/1/2001	11/21/2002	8/25/2003	5/24/2004	03/01/05	11/30/06	02/23/07	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Date of Collection	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	MW-04D (ug/l)	
Volatile Organic Compounds	CAS #										
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	-
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	1 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	4 J	2.5 J	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-89-0	7 J	3.0 J	NA	10 U	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	11	27	4 J	2.5 J	3 J	3 J	4 J	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		23	32.5	4	2.5	1	3	4	U	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-041 10/29/1997 (ug/l)	MW-041 1/28/1998 (ug/l)	MW-041 12/6/2000 (ug/l)	MW-041 2/17/2001 (ug/l)	MW-041 1/12/2002 (ug/l)	MW-041 8/22/2003 (ug/l)	MW-041 5/24/2004 (ug/l)	MW-041 03/01/05 (ug/l)	MW-041 11/30/06 (ug/l)	MW-041 02/23/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	NA	5 U	5 U	5 U	5 U	5 U	2 J	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	3 J	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	1 J	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	5 J	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	20. 8.6 J	63. 29	11	5	58	10	5	5	5	5	5	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		29	8.6	65	13	8	59	15	1	U			

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-04S 10/29/1997 (ug/l)	MW-04S 2/21/1998 (ug/l)	MW-04S 12/16/2000 (ug/l)	MW-04S 2/1/2001 (ug/l)	MW-04S 11/22/2002 (ug/l)	MW-04S 8/25/2003 (ug/l)	MW-04S 5/24/2004 (ug/l)	MW-04S 3/1/2005 (ug/l)	MW-04S 11/30/2006 (ug/l)	MW-04S 3/2/2007 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds												
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	NA	10 U	5 U	1 J	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	4 J	3.0 J	3 J	2.9 J	5.5	3 J	2 J	2 J	2 J	2 J	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	3.4 J	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromochloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	8 J	7.2 J	5 J	3.8 J	5 U	3 J	5 U	5 U	3 J	2 J	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromofrom	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000078-87-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,2-Dichloropropane	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
2-Butanone	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2-Trichloroethane	000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-06-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5.7	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropane	000563-58-6	1.2	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		13.6	8	6.7	11.2	7	2	2	2	5	4	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID Date of Collection Volatile Organic Compounds	CAS #	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST	
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST	
1,4-Dichlorobenzene	000106-46-7	NA	NA	1 J	2.4 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST	
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST	
Acrylonitrile	000107-13-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Vinyl Acetate	000108-05-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	-	
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Toluene	000108-88-3	0.4 U	10.0 U	5 U	5 U	10 U	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Chlorobenzene	000108-90-7	2 J	3.9 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Tetrachloroethene	000127-18-4	3 J	10.0 U	5 U	1.2 J	5 U	1 J	2 J	2 J	5 U	5 U	5 U	5 U	5 U	50 GV	
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 ST	
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV	
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV	
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST	
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST	
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV	
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST	
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV	
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV	
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,1-Dichloroethane	000075-34-3	1 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST	
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV	
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST	
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST	
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST	
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST	
1,1-Dichloropropene	000563-58-6	NA	NA	5 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 ST	
TOTAL VOCs		6	3.9	3	7	2	2	2	2	2	2	2	2	2	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	MW-051 10/29/1997 (ug/l)	MW-051 2/27/1998 (ug/l)	MW-051 1/28/2000 (ug/l)	MW-051 2/2/2001 (ug/l)	MW-051 11/22/2002 (ug/l)	MW-051 8/25/2003 (ug/l)	MW-051 5/25/2004 (ug/l)	MW-051 03/02/05 (ug/l)	MW-051 11/30/06 (ug/l)	MW-051 02/21/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds											
Ethylbenzene	0.00100-41-4	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Styrene	000100-42-5	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
cis-1,3-Dichloropropene	010061-01-5	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	3 ST
1,2-Dibromoethane	000106-93-4	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,2-Dichloroethane	000107-06-2	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	0.6 ST
Arylonitrile	000107-13-1	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Vinyl Acetate	000108-05-4	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	-
4-Methyl-2-pentanone	000108-10-1	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	-
Toluene	000108-88-3	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Chlorobenzene	000108-90-7	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
trans-1,4-Dichloro-2-butene	000110-57-6	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Dibromochloromethane	000124-48-1	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Tetrahydroethene	000127-18-4	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Xylene (total)	001330-20-7	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,2-Dichloroethene (total)	000540-59-0	4J	4.2J	NA	NA	NA	NA	NA	NA	NA	5.0
cis-1,2-Dichloroethene	000156-59-2	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
trans-1,2-Dichloroethene	000156-60-5	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Carbon tetrachloride	000056-23-5	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
2-Hexanone	000591-78-6	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	3.5J	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Acetone	000067-64-1	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	50 GV
Chloroform	000067-66-3	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	7.5 ST
Benzene	000071-43-2	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	1.5 ST
1,1,1-Trichloroethane	000071-55-6	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Bromomethane	000074-83-9	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Chloromethane	000074-87-3	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Iodomethane	000074-88-4	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Dibromomethane	000074-95-3	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Bromodichloromethane	000075-27-4	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	50 GV
Chloroethane	000075-00-3	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Vinyl chloride	000075-01-4	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	2.5 ST
Methylene chloride	000075-09-2	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Carbon disulfide	000075-15-0	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	60 GV
Bromoform	000075-25-2	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	50 GV
Bromochloromethane	000074-97-5	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,1-Dichloroethane	000075-34-3	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,1-Dichloroethene	000075-35-4	0.6U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Trichlorofluoromethane	000075-69-4	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,2-Dichloropropane	000078-87-5	0.4U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	1.5 ST
2-Butanone	000078-93-3	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
Trichloroethene	000079-01-6	4J	2.2J	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,1,2,2-Tetrachloroethane	000079-34-5	0.2U	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
1,2-Dichlorobenzene	000095-50-1	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	3.0 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	0.04 ST
1,1-Dichloropropane	000563-58-6	NA	10.0U	5.0	10.0U	5.0	5.0	5.0	5.0	5.0	5.0
TOTAL VOCs		8	9-9	U	1	U	U	U	U	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 U: Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-05S 10/29/1997 (ug/l)	MW-05S 2/5/1998 (ug/l)	MW-05S 1/28/2000 (ug/l)	MW-05S 2/2/2001 (ug/l)	MW-05S 11/22/2002 (ug/l)	MW-05S 8/25/2003 (ug/l)	MW-05S 5/25/2004 (ug/l)	MW-05S 03/02/05 (ug/l)	MW-05S 11/30/06 (ug/l)	MW-05S 02/21/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatiles Organic Compounds												
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	1.2 J	5 U	1 J	1 J	5 U	1 J	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	5 J	2.4 J	3 J	4.9 J	5 U	1 J	2 J	1 J	4 J	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000059-178-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	9 J	5.1 J	3 J	5.2 J	5 U	6.6	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		14	7.5	6	13.3	6.6	2	3	1	5	U	

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 J: Compound was analyzed for but not detected at the detection limit shown.
 U: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-06D 10/28/1997	MW-06D 1/28/1998	MW-06D 12/5/2000	MW-06D 1/31/2001	MW-06D 11/20/2002	MW-06D 8/22/2003	MW-06D 5/24/2004	MW-6D 03/01/05	MW-6D 12/01/06	MW-6D 02/22/07	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds												
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	1 J	10.0 U	5 U	10 U	2 J	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	1200 D	1600 U	15 U	10 U	5 U	2 J	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	480 D	360 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	1 J	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-43-2	23	17	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	19	19	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	4 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	4 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	45	36	2 J	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
TOTAL VOCs		1,776	2,032	18	12	8	2	U	U	U	U	U

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated
 D: Result taken from analysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	MW-061 10/28/1997	MW-061 1/28/1998	MW-061 12/5/2000	MW-061 2/1/2001	MW-061 11/21/2002	MW-061 8/22/2003	MW-061 5/24/2004	MW-061 03/01/05	MW-061 12/01/06	MW-061 02/22/07	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Date of Collection	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	
Volatiles Organic Compounds	CAS #										
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Tetrachloroethene	000127-18-4	3 J	10.0 U	2 J	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	4 J	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	4 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	5 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 GV
Trichloroethene	000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2-Trichloroethane	000079-01-6	0.4 U	10.0 U	2 J	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		12	U	29	3.1	U	U	U	U	U	

QUALIFIERS
 B. Compound was found in the method blank as well as the sample
 U. Compound was analyzed for but not detected at the detection limit shown.
 J. Compound was found at a concentration below the detection limit, value estimated
 E. Concentration exceeds instrument calibration range, value estimated.
 D. Result taken from analysis at a secondary dilution.
 U*. Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	Volatile Organic Compounds	CAS #	MW-07D 10/27/1997 (ug/l)	MW-07D 1/28/1998 (ug/l)	MW-07D 12/1/2000 (ug/l)	MW-07D 1/31/2001 (ug/l)				NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
		Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U				5 ST
		Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U				5 ST
		cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U				0.4 ST
		trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U				0.4 ST
		1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U				3 ST
		1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U				5 ST
		1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U				0.6 ST
		Acrylonitrile	000107-13-1	NA	NA	5 U	50 U				5 ST
		Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U				5 ST
		4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U				-
		Toluene	000108-88-3	1 J	10.0 U	5 U	10 U				5 ST
		Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U				5 ST
		trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U				50 GV
		Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U				5 ST
		Tetrachloroethene	000127-18-4	21	270.0 E	4 J	3.5 J				5 ST
		Xylene (total)	001330-20-7	0.6 U	10.0 U	5 U	10 U				5 ST
		1,2-Dichloroethene (total)	000540-59-0	12	140	NA	10 U				5 ST
		cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U				5 ST
		trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U				5 ST
		Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U				5 ST
		2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U				50 GV
		1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U				5 ST
		Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U				50 GV
		Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U				7 ST
		Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U				1 ST
		1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U				5 ST
		Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U				5 ST
		Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U				5 ST
		Iodomethane	000074-88-4	NA	NA	5 U	10 U				5 ST
		Dibromomethane	000074-95-3	NA	NA	5 U	10 U				5 ST
		Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U				50 GV
		Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U				5 ST
		Vinyl chloride	000075-01-4	1 J	7.7 J	5 U	10 U				2 ST
		Methylene chloride	000075-08-2	0.4 U	10.0 U	5 U	10 U				5 ST
		Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U				60 GV
		Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U				50 GV
		Bromochloromethane	000074-97-5	NA	NA	5 U	10 U				5 ST
		1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U				5 ST
		1,1,1-Dichloroethane	000075-35-4	0.6 U	10.0 U	5 U	10 U				5 ST
		Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U				5 ST
		1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U				1 ST
		2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U				50 GV
		1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U				5 ST
		Trichloroethene	000079-01-6	3 J	50	5 U	10 U				5 ST
		1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U				5 ST
		1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U				3 ST
		1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U				0.04 ST
		1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U				0.04 ST
		1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U				5 ST
		TOTAL VOCs		38	467.7	4	3.5				

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-071 10/28/1997 (ug/l)	MW-071 1/28/1998 (ug/l)	MW-071 12/1/2000 (ug/l)	MW-071 1/31/2001 (ug/l)	MW-071 11/20/2002 (ug/l)	MW-071 8/22/2003 (ug/l)	MW-071 5/20/2004 (ug/l)	MW-071 02/28/05 (ug/l)	MW-071 11/28/06 (ug/l)	MW-071 02/22/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds													
Ethylbenzene		000100-41-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene		000100-42-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene		010061-01-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene		010061-02-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene		000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U*	5 U	5 U	5 U	3 ST
1,2-Dibromoethane		000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane		000107-06-2	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile		000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate		000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone		000108-10-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Toluene		000108-88-3	0.4 U	10.0 U	5 U	10 U	3 J	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene		000108-90-7	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene		000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U*	5 U	5 U	5 U	5 ST
Dibromochloromethane		000124-48-1	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Tetrachloroethene		000127-18-4	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)		001330-20-7	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,2-Dichloroethene (total)		000540-59-0	0.4 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene		000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene		000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride		000056-23-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone		000591-78-6	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane		000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone		000067-66-1	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloroform		000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene		000071-43-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane		000071-55-6	0.6 U	10.0 U	6	2.6 J	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane		000074-83-9	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane		000074-87-3	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane		000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane		000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane		000075-27-4	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane		000075-00-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride		000075-01-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride		000075-09-2	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide		000075-15-0	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform		000075-25-2	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane		000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane		000075-34-3	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene		000075-35-4	0.6 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane		000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane		000078-87-5	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone		000078-93-3	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Trichloroethene		000079-00-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane		000079-01-6	0.4 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane		000079-34-5	0.2 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene		000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane		000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane		000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropane		000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs			U	U	6	2.6	3	U	1	U	U	U	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detected based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NS: Not Sampled
 Parameter exceeds Standard/Guidance Value

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-07S (ug/l)	MW-07S 1/28/1998 (ug/l)	MW-07S 12/5/2000 (ug/l)	MW-07S 1/31/2001 (ug/l)					NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	0.4 U	10.0 U	5 U	10 U						5 ST
Styrene	000100-42-5	0.4 U	10.0 U	5 U	10 U						5 ST
cis-1,3-Dichloropropene	010061-01-5	0.2 U	10.0 U	5 U	10 U						0.4 ST
trans-1,3-Dichloropropene	010061-02-6	0.2 U	10.0 U	5 U	10 U						0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	NA	10 U						3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U						5 ST
1,2-Dichloroethane	000107-06-2	0.2 U	10.0 U	5 U	10 U						0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U						5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U						-
4-Methyl-2-pentanone	000108-10-1	0.2 U	10.0 U	5 U	10 U						5 ST
Toluene	000108-88-3	0.4 U	10.0 U	5 U	10 U						5 ST
Chlorobenzene	000108-90-7	0.4 U	10.0 U	5 U	10 U						5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U						-
Dibromochloromethane	000124-48-1	0.2 U	10.0 U	5 U	10 U						50 GV
Tetrachloroethene	000127-18-4	0.4 U	10.0 U	5 U	10 U						5 ST
Xylene (total)	001350-20-7	0.6 U	10.0 U	5 U	10 U						5 ST
1,2-Dichloroethene (total)	000540-59-0	0.4 U	10.0 U	NA	10 U						5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U						5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U						5 ST
Carbon tetrachloride	000056-23-5	0.4 U	10.0 U	5 U	10 U						50 GV
2-Hexanone	000591-78-6	0.2 U	10.0 U	5 U	10 U						5 ST
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U						50 GV
Acetone	000067-64-1	0.4 U	10.0 U	5 U	10 U						50 GV
Chloroform	000067-66-3	0.2 U	10.0 U	5 U	10 U						7 ST
Benzene	000071-43-2	0.4 U	10.0 U	5 U	10 U						1 ST
1,1,1-Trichloroethane	000071-55-6	0.6 U	10.0 U	5 U	10 U						5 ST
Bromomethane	000074-83-9	0.4 U	10.0 U	5 U	10 U						5 ST
Chloromethane	000074-87-3	0.6 U	10.0 U	5 U	10 U						5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U						5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U						5 ST
Bromodichloromethane	000075-27-4	0.2 U	10.0 U	5 U	10 U						50 GV
Chloroethane	000075-00-3	0.4 U	10.0 U	5 U	10 U						5 ST
Vinyl chloride	000075-01-4	0.6 U	10.0 U	5 U	10 U						2 ST
Methylene chloride	000075-09-2	0.4 U	10.0 U	5 U	10 U						5 ST
Carbon disulfide	000075-15-0	0.4 U	10.0 U	5 U	10 U						60 GV
Bromoform	000075-25-2	0.6 U	10.0 U	5 U	10 U						50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U						5 ST
1,1-Dichloroethane	000075-34-3	0.4 U	10.0 U	5 U	10 U						5 ST
1,1-Dichloroethene	000075-35-4	0.6 U	10.0 U	5 U	10 U						5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U						5 ST
1,2-Dichloropropane	000078-87-5	0.4 U	10.0 U	5 U	10 U						1 ST
2-Butanone	000078-93-3	0.2 U	10.0 U	5 U	10 U						50 GV
Trichloroethene	000079-01-6	0.4 U	10.0 U	5 U	10 U						5 ST
1,1,2-Trichloroethane	000079-00-5	0.2 U	10.0 U	5 U	10 U						5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	0.2 U	10.0 U	5 U	10 U						5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U						3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U						0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U						0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U						5 ST
TOTAL VOCs			U	U	U						

QUALIFIERS
B. Compound was found in the method blank as well as the sample
U: Compound was analyzed for but not detected at the detection limit shown.
J: Compound was found at a concentration below the detection limit, value estimated
E: Concentration exceeds instrument calibration range, value estimated
D: Result taken from analysis at a secondary dilution
U*: Result qualified as non-detect based on validation criteria

NOTES
GV: Guidance Value
ST: Standard
NA: Not Analyzed
*: Parameter exceeds Standard/Guidance Value
NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-10D 10/30/1997 (ug/l)	MW-10D 2/21/1998 (ug/l)	MW-10D 12/1/2000 (ug/l)	MW-10D 2/5/2001 (ug/l)				NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatiles Organic Compounds										
Ethylbenzene		000100-41-4	1.4 U	10 U	5 U	10 U				5 ST
Styrene		000100-42-5	1.4 U	10 U	5 U	10 U				5 ST
cis-1,3-Dichloropropene		010061-01-5	1.4 U	10 U	5 U	10 U				0.4 ST
trans-1,3-Dichloropropene		010061-02-6	1.8 U	10 U	5 U	10 U				0.4 ST
1,4-Dichlorobenzene		000106-46-7	NA	NA	5 U	10 U				3 ST
1,2-Dibromoethane		000106-93-4	NA	NA	5 U	10 U				5 ST
1,2-Dichloroethane		000107-06-2	1.4 U	10 U	5 U	10 U				0.6 ST
Acrylonitrile		000107-13-1	NA	NA	5 U	50 U				5 ST
Vinyl Acetate		000108-05-4	NA	NA	5 U	10 U				-
4-Methyl-2-pentanone		000108-10-1	1.4 U	6.5 J	5 U	10 U				-
Toluene		000108-88-3	1.2 U	10 U	5 U	10 U				5 ST
Chlorobenzene		000108-90-7	1.4 U	10 U	5 U	10 U				5 ST
trans-1,4-Dichloro-2-butene		000110-57-6	NA	NA	5 U	10 U				5 ST
Dibromochloromethane		000124-48-1	2.2 U	10 U	5 U	10 U				50 GV
Tetrachloroethene		000127-18-4	1.4 U	10 U	5 U	10 U				5 ST
Xylene (total)		001330-20-7	1.6 U	10 U	5 U	10 U				5 ST
1,2-Dichloroethene (total)		000540-59-0	2.6 U	10 U	NA	10 U				5 ST
cis-1,2-Dichloroethene		000156-59-2	NA	NA	5 U	10 U				5 ST
trans-1,2-Dichloroethene		000156-60-5	NA	NA	5 U	10 U				5 ST
Carbon tetrachloride		000056-23-5	1.8 U	10 U	5 U	10 U				5 ST
2-Hexanone		000591-78-6	1.4 U	7.0 J	5 U	10 U				50 GV
1,1,1,2-Tetrachloroethane		000630-20-6	NA	NA	5 U	10 U				5 ST
Acetone		000067-64-1	3.4 U	9.6 J	5 U	10 U				50 GV
Chloroform		000067-66-3	1.4 U	10 U	5 U	10 U				7 ST
Benzene		000071-43-2	1.4 U	10 U	5 U	10 U				1 ST
1,1,1-Trichloroethane		000071-55-6	3 J	10 U	5 U	1.2 J				5 ST
Bromomethane		000074-83-9	1.4 U	10 U	5 U	10 U				5 ST
Chloromethane		000074-87-3	1.4 U	10 U	5 U	10 U				5 ST
Iodomethane		000074-88-4	NA	NA	5 U	10 U				5 ST
Dibromomethane		000074-95-3	NA	NA	5 U	10 U				5 ST
Bromodichloromethane		000075-27-4	1.8 U	10 U	5 U	10 U				50 GV
Chloroethane		000075-00-3	1.4 U	10 U	5 U	10 U				5 ST
Vinyl chloride		000075-01-4	1.4 U	10 U	5 U	10 U				2 ST
Methylene chloride		000075-09-2	1.4 U	10 U	5 U	10 U				5 ST
Carbon disulfide		000075-15-0	1.2 U	10 U	5 U	10 U				60 GV
Bromoform		000075-25-2	1.8 U	10 U	5 U	10 U				50 GV
Bromochloromethane		000074-97-5	NA	NA	5 U	10 U				5 ST
1,1-Dichloroethane		000075-34-3	8 J	3.4 J	1 J	1.7 J				5 ST
1,1-Dichloroethene		000075-35-4	1.4 U	10 U	5 U	10 U				5 ST
Trichlorofluoromethane		000075-69-4	NA	NA	5 U	10 U				5 ST
1,2-Dichloropropane		000078-87-5	1.4 U	10 U	5 U	10 U				1 ST
2-Butanone		000078-93-3	2.2 U	7.8 J	5 U	10 U				50 GV
1,1,2-Trichloroethane		000079-00-5	2 U	10 U	5 U	10 U				5 ST
Trichloroethene		000079-01-6	1.4 U	2.1 J	5 U	10 U				5 ST
1,1,2,2-Tetrachloroethane		000079-34-5	2.2	3.4 J	5 U	10 U				5 ST
1,2-Dichlorobenzene		000095-50-1	NA	NA	5 U	10 U				3 ST
1,2-Dibromo-3-chloropropane		000096-12-8	NA	NA	5 U	10 U				0.04 ST
1,2,3-Trichloropropane		000096-18-4	NA	NA	5 U	10 U				0.04 ST
1,1-Dichloropropene		000563-58-6	NA	NA	NA	10 U				5 ST
TOTAL VOCs			11	39.8	1	2.9				

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-101 10/30/1997 (ug/l)	MW-101 2/21/1998 (ug/l)	MW-101 12/1/2000 (ug/l)	MW-101 2/5/2001 (ug/l)				NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U	0.4 ST				0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U	0.4 ST				0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	NA	10 U	3 ST				3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 ST				5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	0.6 ST				0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	10 U	5 ST				5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	-				-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	5 ST				5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	50 GV				50 GV
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	5 ST				5 ST
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 ST				5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U	5 ST				5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 ST				5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 ST				5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 ST				5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U	50 GV				50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 ST				5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U	50 GV				50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	7 ST				7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U	1 ST				1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	1 J	10 U	5 ST				5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 ST				5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 ST				5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	50 GV				50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U	2 ST				2 ST
Methylene chloride	000075-09-2	1.40 U	4.8 J	5 U	10 U	5 ST				5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	60 GV				60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	50 GV				50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 ST				5 ST
1,1-Dichloroethane	000075-34-3	1 J	2.8 J	1 J	10 J	5 ST				5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 ST				5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	1 ST				1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	50 GV				50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 ST				5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5 U	10 U	5 ST				5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 ST				5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	3 ST				3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	0.04 ST				0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	0.04 ST				0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	5 ST				5 ST
TOTAL VOCs		11	7.6	2	1					

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-10S 10/30/1997 (ug/l)	MW-10S 2/2/1998 (ug/l)	MW-10S 12/1/2000 (ug/l)	MW-10S 2/5/2001 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds						
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	-
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 ST
Acetone	000067-64-1	3.40 U	4.4 J	5 U	10 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U	1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	5 U	10 U	5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	50 GV
Chloroethane	000075-00-3	2 J	10.0 U	5 U	10 U	5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U	2 ST
Methylene chloride	000075-09-2	1.40 U	2.1 J	5 U	10 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 ST
1,1-Dichloroethane	000075-34-3	24	4.0 J	6	4.2 J	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	10 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5 U	10 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	5 ST
TOTAL VOCs		26	10.5	6	4.2	

QUALIFIERS
B. Compound was found in the method blank as well as the sample
U. Compound was analyzed for but not detected at the detection limit shown.
J. Compound was found at a concentration below the detection limit, value estimated
E. Concentration exceeds instrument calibration range, value estimated.
D. Result taken from analysis at a secondary dilution.
U*: Result qualified as non-detected based on validation criteria

NOTES
GV: Guidance Value
ST: Standard
NA: Not Analyzed
Parameter exceeds Standard/Guidance Value
NS: Not Sampled

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-11D 10/31/1997 (ug/l)	MW-11D 1/28/1998 (ug/l)	MW-11D 1/21/3/2000 (ug/l)	MW-11D 2/7/2001 (ug/l)	MW-11D 1/17/2002 (ug/l)	MW-11D 8/21/2003 (ug/l)	MW-11D 5/21/2004 (ug/l)	MW-11D 02/24/05 (ug/l)	MW-11D 11/29/06 (ug/l)	MW-11D 02/28/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000059-178-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000060-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	2 J	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	2 J	5	5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	1.20 U	10.0 U	5 U	10 U	1 J	5 U	5 U	5 U	2 J	5	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	2 J	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		2	U	U	U	1	U	U	U	4	12	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NA*: Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-111 10/31/1997 (ug/l)	MW-111 1/28/1998 (ug/l)	MW-111 12/13/2000 (ug/l)	MW-111 2/7/2001 (ug/l)	MW-111 11/21/2002 (ug/l)	MW-111 8/21/2003 (ug/l)	MW-111 5/21/2004 (ug/l)	MW-111 02/24/05 (ug/l)	MW-111 11/29/06 (ug/l)	MW-111 02/28/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U	5 U	5 U	1 J	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7 ST
1,1,1-Trichloroethane	000071-55-6	2 J	10.0 U	10	19	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromoacetic acid	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	7 J	3.2 J	52	100	5 U	2 J	1 J	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		9	3.2	62	120.6	U	2	12	1	0	U	

NOTES
GV: Guidance Value
ST: Standard
NA: Not Analyzed
J: Compound was found at a concentration below the detection limit, value estimated
E: Concentration exceeds instrument calibration range; value estimated
D: Result taken from analysis at a secondary dilution.
U*: Result qualified as non-detect based on validation criteria
U: Compound was found in the method blank as well as the sample
U: Compound was analyzed for but not detected at the detection limit shown.
E: Concentration exceeds instrument calibration range; value estimated
D: Result taken from analysis at a secondary dilution.
U*: Result qualified as non-detect based on validation criteria

Parameter exceeds Standard/Guidance Value
NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-12D 10/31/1997 (ug/l)	MW-12D 1/28/1998 (ug/l)	MW-12D 12/8/2000 (ug/l)	MW-12D 2/7/2001 (ug/l)	MW-12D 11/21/2002 (ug/l)	MW-12D 8/21/2003 (ug/l)	MW-12D 5/21/2004 (ug/l)	MW-12D 02/24/05 (ug/l)	MW-12D 11/29/06 (ug/l)	MW-12D 02/23/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	-
Vinyl Acetate	000108-05-4	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	2 J	5 U	5 U	5 U	5 U	5 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	1 J	5 U	5 U	5 U	7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethane	000075-34-3	1.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	5 U	10 U	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		U	U	U	U	2	U	1	U	1	U	U

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	MW-121 10/31/1997 (ug/l)	MW-121 1/30/1998 (ug/l)	MW-121 12/7/2000 (ug/l)	MW-121 2/8/2001 (ug/l)	MW-121 11/21/2002 (ug/l)	MW-121 8/21/2003 (ug/l)	MW-121 5/21/2004 (ug/l)	MW-121 02/24/05 (ug/l)	MW-121 11/29/06 (ug/l)	MW-121 02/23/07 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds	CAS #										
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5.0 U	50.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Toluene	000108-88-3	1.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	NA	NA	NA	NA	NA	NA	NA	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 ST
Benzene	000071-43-2	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1 ST
1,1,1-Trichloroethane	000071-55-6	1.0 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Iodomethane	000074-88-4	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,1-Dichloroethane	000075-34-3	1.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs		1	U	U	U	2	1	U	4	U	

QUALIFIERS

- B: Compound was found in the method blank as well as the sample
- U: Compound was analyzed for but not detected at the detection limit shown
- J: Compound was found at a concentration below the detection limit, value estimated
- E: Concentration exceeds instrument calibration range, value estimated
- D: Result taken from analysis at a secondary dilution
- U*: Result qualified as non-detect based on validation criteria

NOTES

- GV: Guidance Value
- ST: Standard
- NA: Not Analyzed
- Parameter exceeds Standard/Guidance Value
- NS: Not Sampled

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-13D 11/3/1997 (ug/l)	MW-13D 2/3/1998 (ug/l)	MW-13D 12/12/2000 (ug/l)	MW-13D 2/6/2001 (ug/l)					NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatiles Organic Compounds										
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U					5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U					5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	5 U	10 U					0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	5 U	10 U					0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	1.3 J					3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U					5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U					0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U					5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U					-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U					5 ST
Toluene	000108-88-3	1.20 U	2.5 J	5 U	10 U					5 ST
Chlorobenzene	000108-90-7	2 J	4.1 J	5 U	1.7 J					5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	NA	10 U					5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U					50 GV
Tetrachloroethene	000127-18-4	1 J	10.0 U	600 D	900 E					5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U					5 ST
1,2-Dichloroethene (total)	000540-59-0	31	34	NA	10 U					5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	140	210 E					5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	1 J					5 ST
Carbon tetrachloride	000036-23-5	1.80 U	10.0 U	5 U	10 U					50 GV
2-Hexanone	000591-78-6	1.40 U	10.0 U	5 U	10 U					5 ST
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	NA	10 U					50 GV
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U					7 ST
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U					1 ST
Benzene	000071-43-2	1.40 U	2.7 J	5 U	1.0 J					5 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	5 U	1.2 J					5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U					5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U					5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U					5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U					5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U					50 GV
Chloroethane	000075-00-3	3 J	10.0 U	2 J	2.6 J					5 ST
Vinyl chloride	000075-01-4	2 J	10.0 U	8	11					2 ST
Methylene chloride	000075-09-2	1.40 U	10.0 U	5 U	10 U					5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U					60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U					50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U					5 ST
1,1-Dichloroethane	000075-34-3	4 J	3.6 J	6	9.1 J					5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	2.0 J	2 J	1.8 J					5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U					5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U					1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U					50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U					5 ST
Trichloroethene	000079-01-6	1 J	2.9 J	48	68					5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U					5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U					3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U					0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U					0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U					5 ST
TOTAL VOCs		44	51.8	896	1,208.7					

QUALIFIERS

- B: Compound was found in the method blank as well as the sample
- U: Compound was analyzed for but not detected at the detection limit shown.
- J: Compound was found at a concentration below the detection limit, value estimated
- E: Concentration exceeds instrument calibration range, value estimated.
- D: Result taken from analysis at a secondary dilution.
- U*: Result qualified as non-detect based on validation criteria

NOTES

- GV: Guidance Value
- ST: Standard
- NA: Not Analyzed
- Parameter exceeds Standard/Guidance Value
- NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-131 11/1/1997 (ug/l)	MW-131 2/2/1998 (ug/l)	MW-131 12/12/2000 (ug/l)	MW-131 2/6/2001 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatiles Organic Compounds						
Ethylbenzene	000100-41-4	1.40 U	10.0 U	5 U	10 U	5 ST
Styrene	000100-42-5	1.40 U	10.0 U	5 U	10 U	5 ST
cis-1,3-Dichloropropene	010661-01-5	1.40 U	10.0 U	5 U	10 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.40 U	10.0 U	5 U	10 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	5 U	1.5 J	3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	5 U	10 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	5 U	10 U	0.6 ST
Acrylonitrile	000107-13-1	NA	NA	5 U	50 U	5 ST
Vinyl Acetate	000108-05-4	NA	NA	5 U	10 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	5 U	10 U	-
Toluene	000108-88-3	1.20 U	10.0 U	5 U	10 U	5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	5 U	2.6 J	5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	5 U	10 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	5 U	10 U	50 GV
Tetrachloroethene	000127-18-4	9 J	11	770 D	1100 E	5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	5 U	10 U	5 ST
1,2-Dichloroethene (total)	000540-59-0	73	53	NA	10 U	5 ST
cis-1,2-Dichloroethene	000156-60-5	NA	NA	170	310 E	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	5 U	2 J	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	5 U	10 U	5 ST
2-Hexanone	000059-178-6	1.40 U	10.0 U	5 U	10 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	5 U	10 U	5 ST
Acetone	000067-64-1	3.40 U	10.0 U	5 U	10 U	50 GV
Chloroform	000067-66-3	1.40 U	10.0 U	5 U	10 U	7 ST
Benzene	000071-43-2	1.40 U	10.0 U	5 U	1.9 J	1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	5 U	10 U	5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	5 U	10 U	5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	5 U	10 U	5 ST
Iodomethane	000074-88-4	NA	NA	5 U	10 U	5 ST
Dibromomethane	000074-95-3	NA	NA	5 U	10 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	5 U	10 U	50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	5 U	1.4 J	5 ST
Vinyl chloride	000075-01-4	7 J	47 J	12	16	2 ST
Methylene chloride	000075-09-2	1.40 U	2.3 J	5 U	10 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	5 U	10 U	60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	5 U	10 U	50 GV
Bromochloromethane	000074-97-5	NA	NA	5 U	10 U	5 ST
1,1-Dichloroethane	000075-34-3	4 J	3 J	16	29	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	5 U	3.7 J	5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	5 U	10 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	5 U	10 U	1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	5 U	10 U	50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	5 U	10 U	5 ST
Trichloroethene	000079-01-6	4 J	4.8 J	100	140	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	5 U	10 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	5 U	10 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	5 U	10 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	5 U	10 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	10 U	5 ST
TOTAL VOCs		97	78.9	1,068	1,608.1	

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 J: Parameter exceeds Standard/Guidance Value
 NS: Not Sampled

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range, value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

APPENDIX B-3

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	CAS #	MW-14D 11/31/1997 (ug/l)	MW-14D 12/11/2000 (ug/l)	MW-14D 2/7/2001 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatiles Organic Compounds					
Ethylbenzene	000100-41-4	1.40 U	5 U	10 U	5 ST
Styrene	000100-42-5	1.40 U	5 U	10 U	5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	5 U	10 U	0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	5 U	10 U	0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	10 U	3 ST
1,2-Dibromoethane	000106-93-4	NA	5 U	10 U	5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	5 U	10 U	0.6 ST
Acrylonitrile	000107-13-1	NA	5 U	50 U	5 ST
Vinyl Acetate	000108-05-4	NA	5 U	10 U	-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10 U	10 U	-
Toluene	000108-88-3	1.20 U	5 U	10 U	5 ST
Chlorobenzene	000108-90-7	1 J	2 J	2.4 J	-
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	10 U	5 ST
Dibromochloromethane	000124-48-1	2.20 U	5 U	10 U	50 GV
Tetrachloroethene	000127-18-4	1.40 U	5 U	10 U	5 ST
Xylene (total)	001330-20-7	1.60 U	5 U	10 U	5 ST
1,2-Dichloroethane (total)	000540-59-0	21	NA	10 U	5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	2 J	4 J	5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	5 U	10 U	5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10 U	10 U	5 ST
2-Hexanone	000059-178-6	1.40 U	5 U	10 U	50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	5 U	10 U	5 ST
Acetone	000067-64-1	2 J	5 U	10 U	50 GV
Chloroform	000067-66-3	1.40 U	2.1 J	10 U	7 ST
Benzene	000071-43-2	1.40 U	5 U	10 U	1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10 U	10 U	5 ST
Bromomethane	000074-83-9	1.40 U	5 U	10 U	5 ST
Chloromethane	000074-87-3	1.40 U	10 U	10 U	5 ST
Iodomethane	000074-88-4	NA	NA	10 U	5 ST
Dibromomethane	000074-95-3	NA	5 U	10 U	5 ST
Bromodichloromethane	000075-27-4	1.80 U	10 U	10 U	50 GV
Chloroethane	000075-00-3	5 J	6	5.9 J	5 ST
Vinyl chloride	000075-01-4	14	2 J	3.0 J	2 ST
Methylene chloride	000075-09-2	1.40 U	5 U	10 U	5 ST
Carbon disulfide	000075-15-0	1.20 U	10 U	10 U	60 GV
Bromoform	000075-25-2	1.80 U	5 U	10 U	50 GV
Bromochloromethane	000074-97-5	NA	5 U	10 U	5 ST
1,1-Dichloroethane	000075-34-3	1 J	5 U	10 U	5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	5 U	10 U	5 ST
Trichlorofluoromethane	000075-69-4	NA	5 U	10 U	5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	5 U	10 U	1 ST
2-Butanone	000078-93-3	2.20 U	5 U	10 U	50 GV
1,1,1,2-Trichloroethane	000079-00-5	2.00 U	5 U	10 U	5 ST
Trichloroethene	000079-01-6	1.40 U	5 U	10 U	5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	5 U	10 U	5 ST
1,2-Dichlorobenzene	000095-50-1	NA	5 U	10 U	3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	5 U	10 U	0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	5 U	10 U	0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	10 U	5 ST
TOTAL VOCs		44	5	15.3	

QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 NS: Not Sampled

APPENDIX B-3

SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
HISTORIC AND CURRENT SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-141 (ug/l)	MW-141 (ug/l)	MW-141 (ug/l)	MW-141 (ug/l)	MW-141 (ug/l)	MW-141 (ug/l)	NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Volatile Organic Compounds									
Ethylbenzene	11/3/1997	000100-41-4	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Styrene	11/3/1997	000100-42-5	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
cis-1,3-Dichloropropene	11/3/1997	010061-01-5	1.40 U	10.0 U	5 U	10 U	10 U	10 U	0.4 ST
trans-1,3-Dichloropropene	11/3/1997	010061-02-6	1.80 U	10.0 U	5 U	10 U	10 U	10 U	0.4 ST
1,4-Dichlorobenzene	11/3/1997	000106-46-7	NA	NA	NA	NA	NA	NA	3 ST
1,2-Dibromoethane	11/3/1997	000106-93-4	NA	NA	NA	NA	NA	NA	5 ST
1,2-Dichloroethane	11/3/1997	000107-06-2	1.40 U	10.0 U	5 U	10 U	10 U	10 U	0.6 ST
Acrylonitrile	11/3/1997	000107-13-1	NA	NA	NA	NA	NA	NA	5 ST
Vinyl Acetate	11/3/1997	000108-05-4	NA	NA	NA	NA	NA	NA	-
4-Methyl-2-pentanone	11/3/1997	000108-10-1	1.40 U	10.0 U	5 U	10 U	10 U	10 U	-
Toluene	11/3/1997	000108-88-3	1.20 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Chlorobenzene	11/3/1997	000108-90-7	1.40 U	10.0 U	5 U	10 U	2.8 J	10 U	5 ST
trans-1,4-Dichloro-2-butene	11/3/1997	000110-57-6	NA	NA	NA	NA	NA	NA	5 ST
Dibromochloromethane	11/3/1997	000124-48-1	2.20 U	10.0 U	5 U	10 U	10 U	10 U	50 GV
Tetrachloroethene	11/3/1997	000127-18-4	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Xylene (total)	11/3/1997	001330-20-7	1.60 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
1,2-Dichloroethene (total)	11/3/1997	000540-59-0	2.60 U	10.0 U	NA	10 U	10 U	10 U	5 ST
cis-1,2-Dichloroethene	11/3/1997	000156-59-2	NA	NA	NA	NA	NA	NA	5 ST
trans-1,2-Dichloroethene	11/3/1997	000156-60-5	NA	NA	NA	NA	NA	NA	5 ST
Carbon tetrachloride	11/3/1997	000056-23-5	1.80 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
2-Hexanone	11/3/1997	000591-78-6	1.40 U	10.0 U	5 U	10 U	10 U	10 U	50 GV
1,1,1,2-Tetrachloroethane	11/3/1997	000630-20-6	NA	NA	NA	NA	NA	NA	5 ST
Acetone	11/3/1997	000067-64-1	3.40 U	5.5 J	5 U	10 U	2 J	10 U	50 GV
Chloroform	11/3/1997	000067-66-3	1.40 U	10.0 U	5 U	10 U	10 U	10 U	7 ST
Benzene	11/3/1997	000071-43-2	1.40 U	10.0 U	5 U	10 U	10 U	10 U	1 ST
1,1,1-Trichloroethane	11/3/1997	000071-55-6	1.80 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Bromomethane	11/3/1997	000074-83-9	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Chloromethane	11/3/1997	000074-87-3	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Iodomethane	11/3/1997	000074-88-4	NA	NA	NA	NA	NA	NA	5 ST
Dibromomethane	11/3/1997	000074-95-3	NA	NA	NA	NA	NA	NA	5 ST
Bromodichloromethane	11/3/1997	000075-27-4	1.80 U	10.0 U	5 U	10 U	10 U	10 U	50 GV
Chloroethane	11/3/1997	000075-00-3	8 J	6.9 J	3 J	4.3 J	4.3 J	4.3 J	5 ST
Vinyl chloride	11/3/1997	000075-01-4	1.40 U	10.0 U	5 U	10 U	10 U	10 U	2 ST
Methylene chloride	11/3/1997	000075-09-2	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Carbon disulfide	11/3/1997	000075-15-0	1.20 U	10.0 U	5 U	10 U	10 U	10 U	60 GV
Bromoform	11/3/1997	000075-25-2	1.80 U	10.0 U	5 U	10 U	10 U	10 U	50 GV
Bromochloromethane	11/3/1997	000074-97-5	NA	NA	NA	NA	NA	NA	5 ST
1,1-Dichloroethane	11/3/1997	000075-34-3	1.20 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Trichlorofluoromethane	11/3/1997	000075-69-4	NA	NA	NA	NA	NA	NA	5 ST
1,2-Dichloropropane	11/3/1997	000078-87-5	1.40 U	10.0 U	5 U	10 U	10 U	10 U	1 ST
2-Butanone	11/3/1997	000078-93-3	2.20 U	10.0 U	5 U	10 U	10 U	10 U	50 GV
1,1,2-Trichloroethane	11/3/1997	000079-00-5	2.00 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
Trichloroethene	11/3/1997	000079-01-6	1.40 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
1,1,2,2-Tetrachloroethane	11/3/1997	000079-34-5	2.20 U	10.0 U	5 U	10 U	10 U	10 U	5 ST
1,2-Dichlorobenzene	11/3/1997	000095-50-1	NA	NA	NA	NA	NA	NA	3 ST
1,2-Dibromo-3-chloropropane	11/3/1997	000096-12-8	NA	NA	NA	NA	NA	NA	0.04 ST
1,2,3-Trichloropropane	11/3/1997	000096-18-4	NA	NA	NA	NA	NA	NA	0.04 ST
1,1-Dichloropropene	11/3/1997	000563-58-6	NA	NA	NA	NA	NA	NA	5 ST
TOTAL VOCs			8	12.4	3	9.1	9.1	9.1	

NOTES

GV: Guidance Value
ST: Standard
NA: Not Analyzed
Parameter exceeds Standard/Guidance Value
NS: Not Sampled

QUALIFIERS

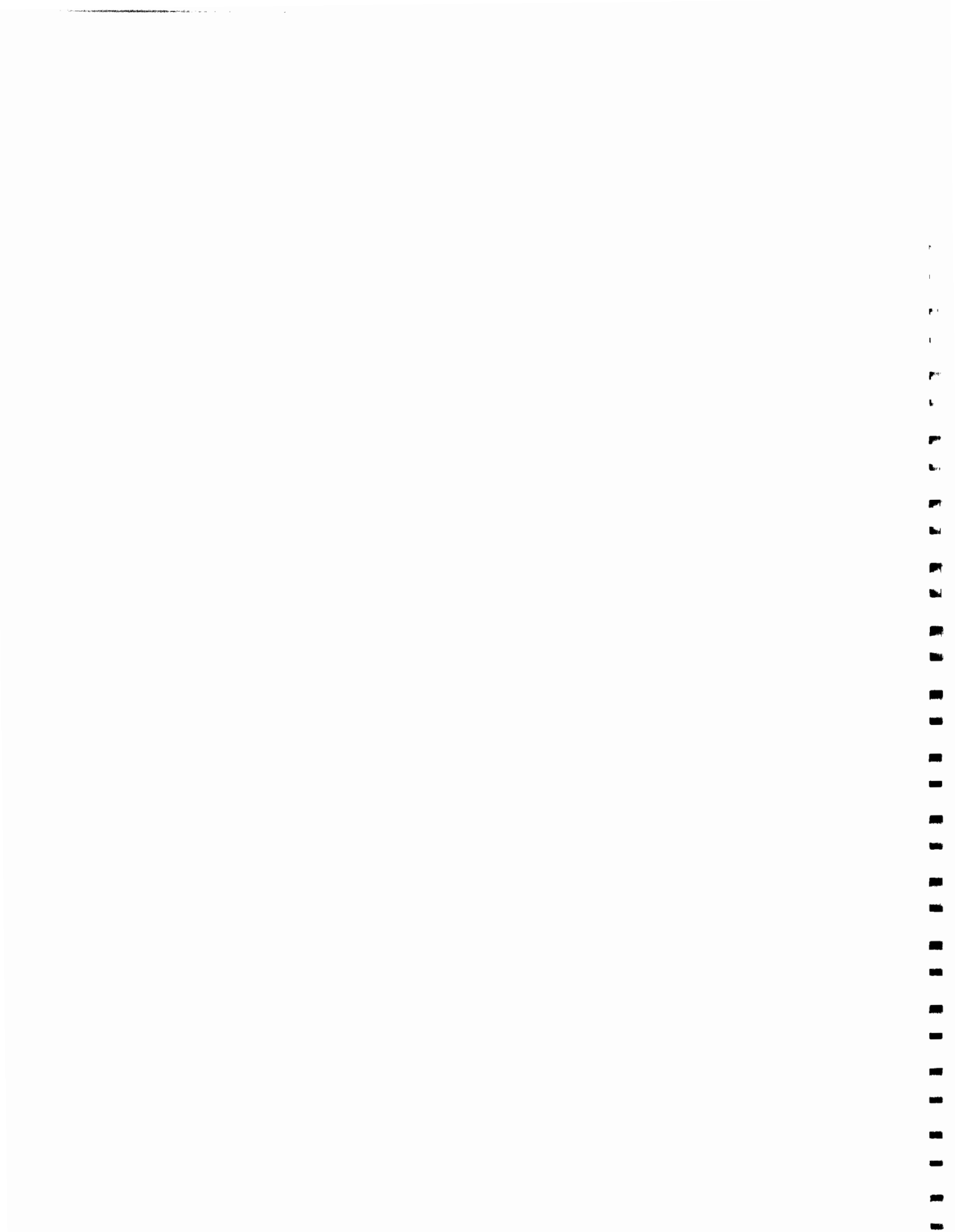
B: Compound was found in the method blank as well as the sample
U: Compound was analyzed for but not detected at the detection limit shown.
J: Compound was found at a concentration below the detection limit, value estimated
E: Concentration exceeds instrument calibration range, value estimated.
D: Result taken from analysis at a secondary dilution.
U*: Result qualified as non-detect based on validation criteria

SONIA ROAD LANDFILL
 POST CLOSURE GROUNDWATER MONITORING PROGRAM
 HISTORIC AND CURRENT SAMPLE RESULTS
 VOLATILE ORGANIC COMPOUNDS

Sample ID	Date of Collection	CAS #	MW-14S (ug/l)	MW-14S 2/3/1998 (ug/l)	MW-14S 12/11/2000 (ug/l)	MW-14S 2/6/2001 (ug/l)				NYSDEC Class GA GROUNDWATER STANDARD/GUIDANCE VALUE
Ethylbenzene	000100-41-4	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Styrene	000100-42-5	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
cis-1,3-Dichloropropene	010061-01-5	1.40 U	10.0 U	10.0 U	5 U	10 U				0.4 ST
trans-1,3-Dichloropropene	010061-02-6	1.80 U	10.0 U	10.0 U	5 U	10 U				0.4 ST
1,4-Dichlorobenzene	000106-46-7	NA	NA	NA	5 U	10 U				3 ST
1,2-Dibromoethane	000106-93-4	NA	NA	NA	5 U	10 U				5 ST
1,2-Dichloroethane	000107-06-2	1.40 U	10.0 U	10.0 U	5 U	10 U				0.6 ST
Acrylonitrile	000107-13-1	NA	NA	NA	5 U	50 U				5 ST
Vinyl Acetate	000108-05-4	NA	NA	NA	5 U	10 U				-
4-Methyl-2-pentanone	000108-10-1	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Toluene	000108-88-3	1.20 U	10.0 U	10.0 U	5 U	10 U				5 ST
Chlorobenzene	000108-90-7	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
trans-1,4-Dichloro-2-butene	000110-57-6	NA	NA	NA	5 U	10 U				50 GV
Dibromochloromethane	000124-48-1	2.20 U	10.0 U	10.0 U	5 U	10 U				5 ST
Tetrachloroethene	000127-18-4	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Xylene (total)	001330-20-7	1.60 U	10.0 U	10.0 U	5 U	10 U				5 ST
1,2-Dichloroethene (total)	000540-59-0	2.60 U	10.0 U	10.0 U	NA	10 U				5 ST
cis-1,2-Dichloroethene	000156-59-2	NA	NA	NA	5 U	10 U				5 ST
trans-1,2-Dichloroethene	000156-60-5	NA	NA	NA	5 U	10 U				5 ST
Carbon tetrachloride	000056-23-5	1.80 U	10.0 U	10.0 U	5 U	10 U				5 ST
2-Hexanone	000591-78-6	1.40 U	10.0 U	10.0 U	5 U	10 U				50 GV
1,1,1,2-Tetrachloroethane	000630-20-6	NA	NA	NA	5 U	10 U				5 ST
Acetone	000067-64-1	3.40 U	10.0 U	10.0 U	5 U	10 U				50 GV
Chloroform	000067-66-3	1.40 U	2.1 J	5 U	5 U	10 U				7 ST
Benzene	000071-43-2	1.40 U	10.0 U	10.0 U	5 U	10 U				1 ST
1,1,1-Trichloroethane	000071-55-6	1.80 U	10.0 U	10.0 U	5 U	10 U				5 ST
Bromomethane	000074-83-9	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Chloromethane	000074-87-3	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Iodomethane	000074-88-4	NA	NA	NA	5 U	10 U				5 ST
Dibromomethane	000074-95-3	NA	NA	NA	5 U	10 U				5 ST
Bromodichloromethane	000075-27-4	1.80 U	10.0 U	10.0 U	5 U	10 U				50 GV
Chloroethane	000075-00-3	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Vinyl chloride	000075-01-4	1.40 U	10.0 U	10.0 U	5 U	10 U				2 ST
Methylene chloride	000075-09-2	1.40 U	2.0 J	5 U	5 U	10 U				5 ST
Carbon disulfide	000075-15-0	1.20 U	10.0 U	10.0 U	5 U	10 U				60 GV
Bromoform	000075-25-2	1.80 U	10.0 U	10.0 U	5 U	10 U				50 GV
Bromochloromethane	000074-97-5	NA	NA	NA	5 U	10 U				5 ST
1,1-Dichloroethane	000075-34-3	1.20 U	10.0 U	10.0 U	5 U	10 U				5 ST
1,1-Dichloroethene	000075-35-4	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
Trichlorofluoromethane	000075-69-4	NA	NA	NA	5 U	10 U				5 ST
1,2-Dichloropropane	000078-87-5	1.40 U	10.0 U	10.0 U	5 U	10 U				1 ST
2-Butanone	000078-93-3	2.20 U	10.0 U	10.0 U	5 U	10 U				50 GV
1,1,2-Trichloroethane	000079-00-5	2.00 U	10.0 U	10.0 U	5 U	10 U				5 ST
Trichloroethene	000079-01-6	1.40 U	10.0 U	10.0 U	5 U	10 U				5 ST
1,1,2,2-Tetrachloroethane	000079-34-5	2.20 U	10.0 U	10.0 U	5 U	10 U				5 ST
1,2-Dichlorobenzene	000095-50-1	NA	NA	NA	5 U	10 U				3 ST
1,2-Dibromo-3-chloropropane	000096-12-8	NA	NA	NA	5 U	10 U				0.04 ST
1,2,3-Trichloropropane	000096-18-4	NA	NA	NA	5 U	10 U				0.04 ST
1,1-Dichloropropene	000563-58-6	NA	NA	NA	NA	10 U				5 ST
TOTAL VOCs		U	4.1	U	U	U				

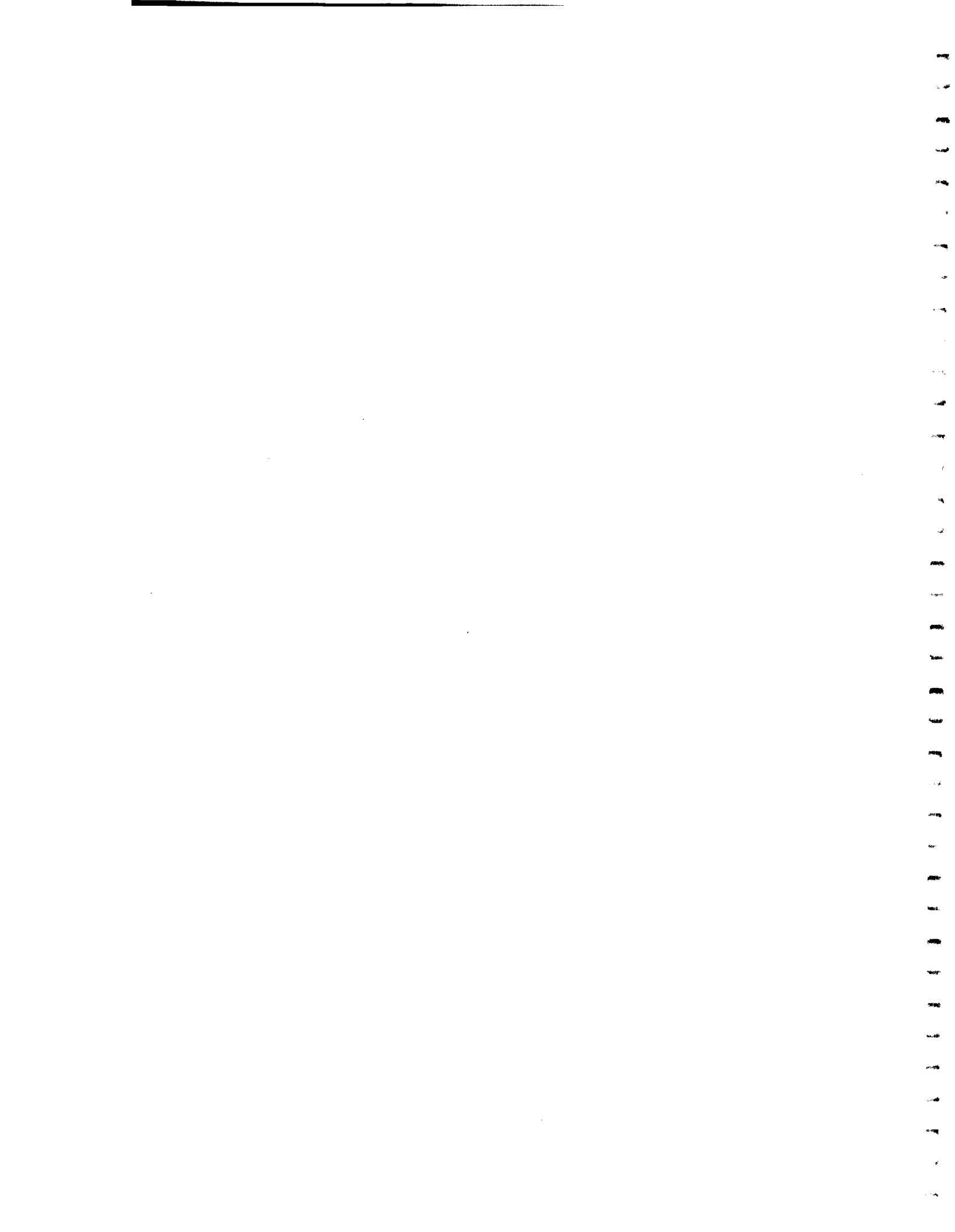
QUALIFIERS
 B: Compound was found in the method blank as well as the sample
 U: Compound was analyzed for but not detected at the detection limit shown.
 J: Compound was found at a concentration below the detection limit, value estimated
 E: Concentration exceeds instrument calibration range; value estimated.
 D: Result taken from analysis at a secondary dilution.
 U*: Result qualified as non-detect based on validation criteria

NOTES
 GV: Guidance Value
 ST: Standard
 NA: Not Analyzed
 : Parameter exceeds Standard/Guidance Value
 NS: Not Sampled



APPENDIX C

WATER QUALITY GRAPHS

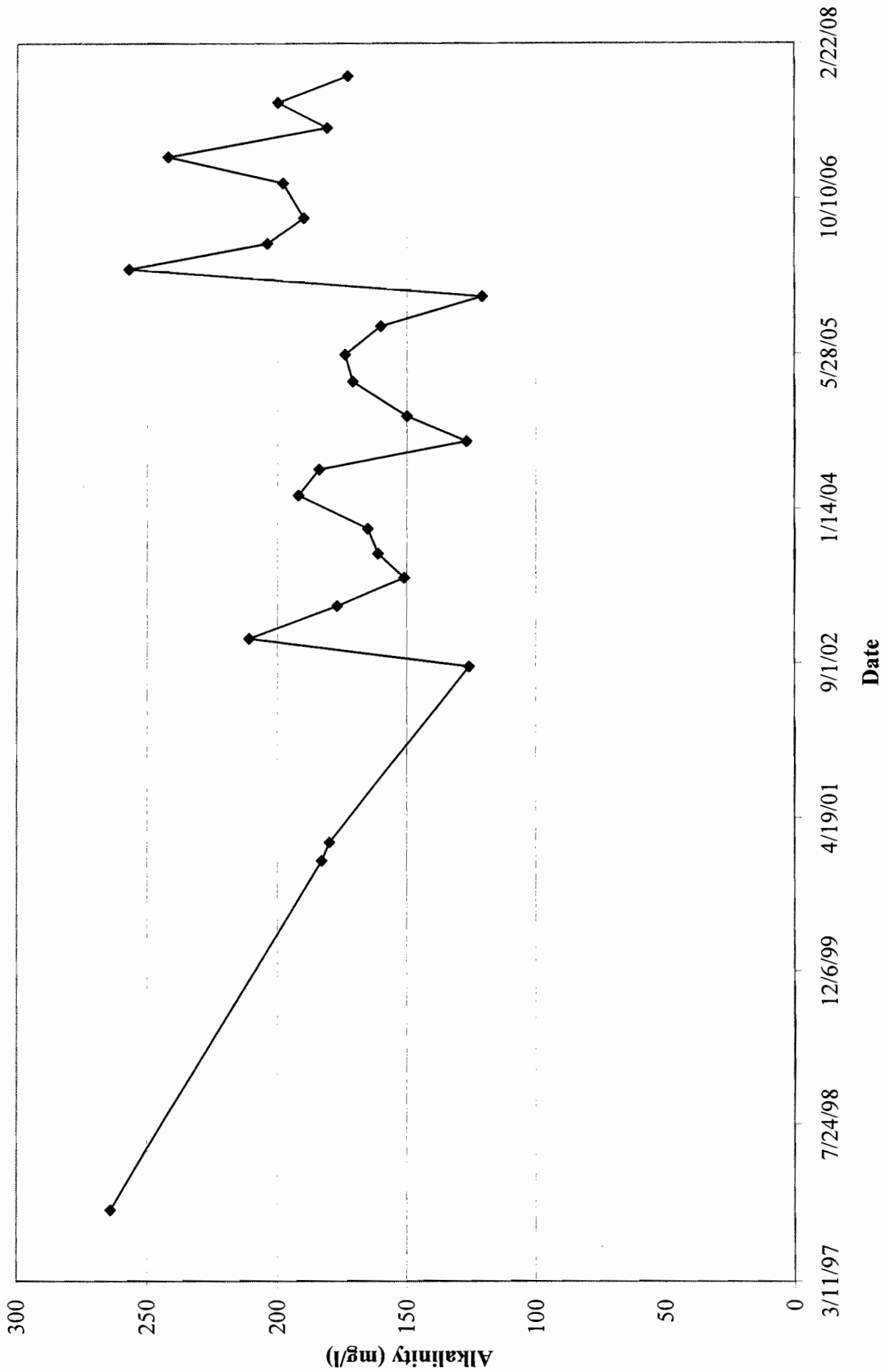


APPENDIX C-1

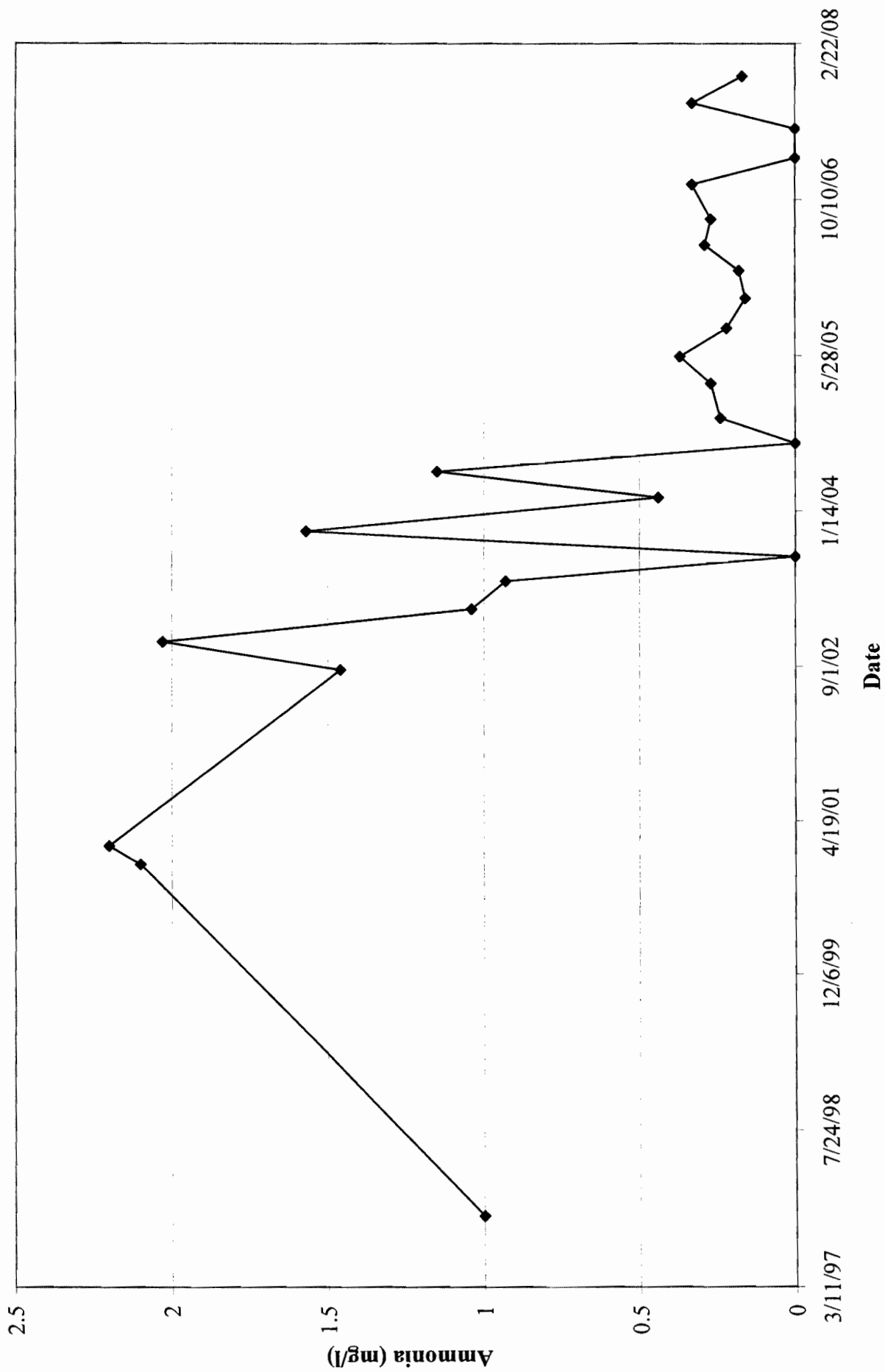
Leachate Indicator Parameters



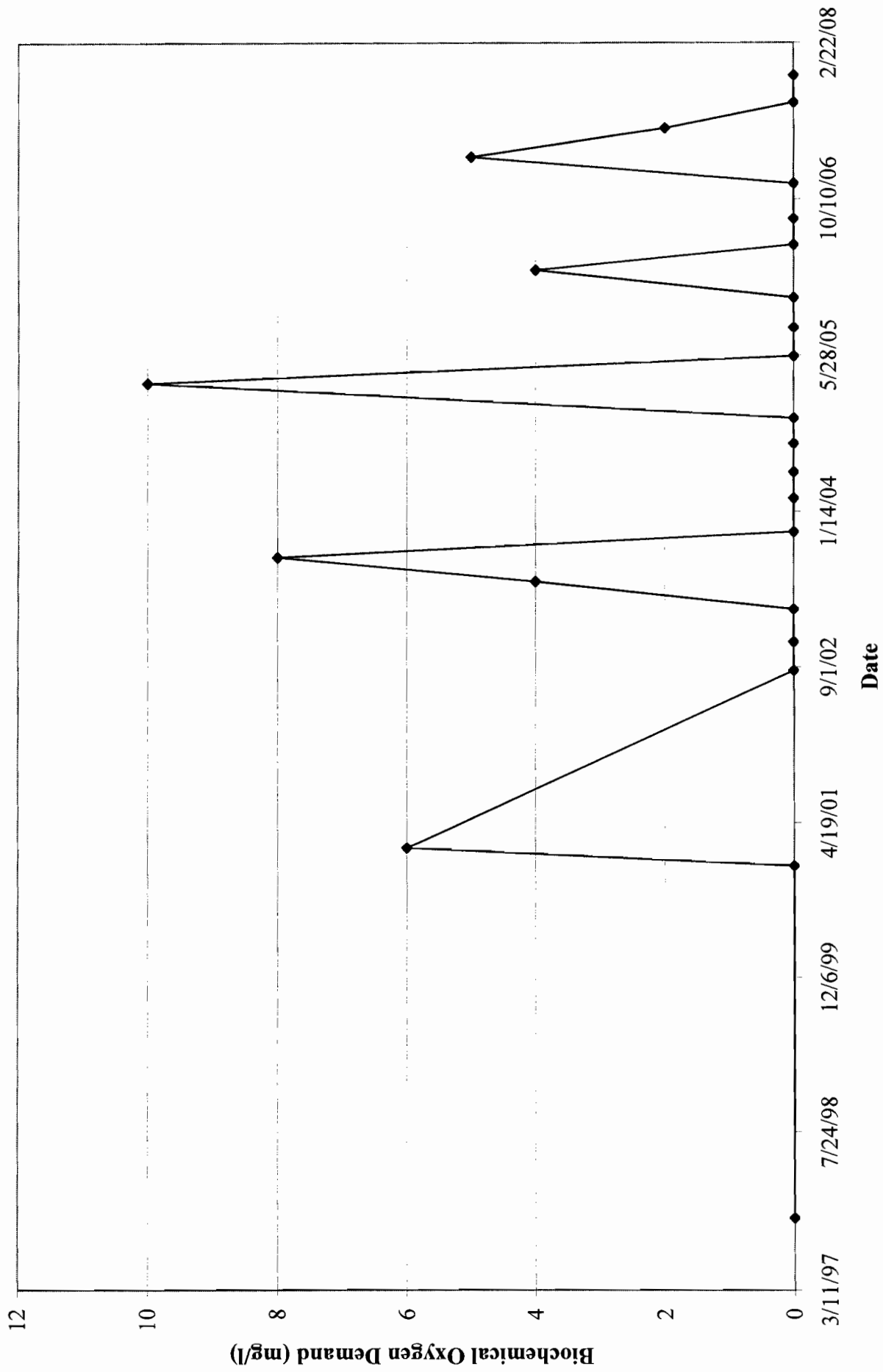
ALKALINITY IN MW-01S



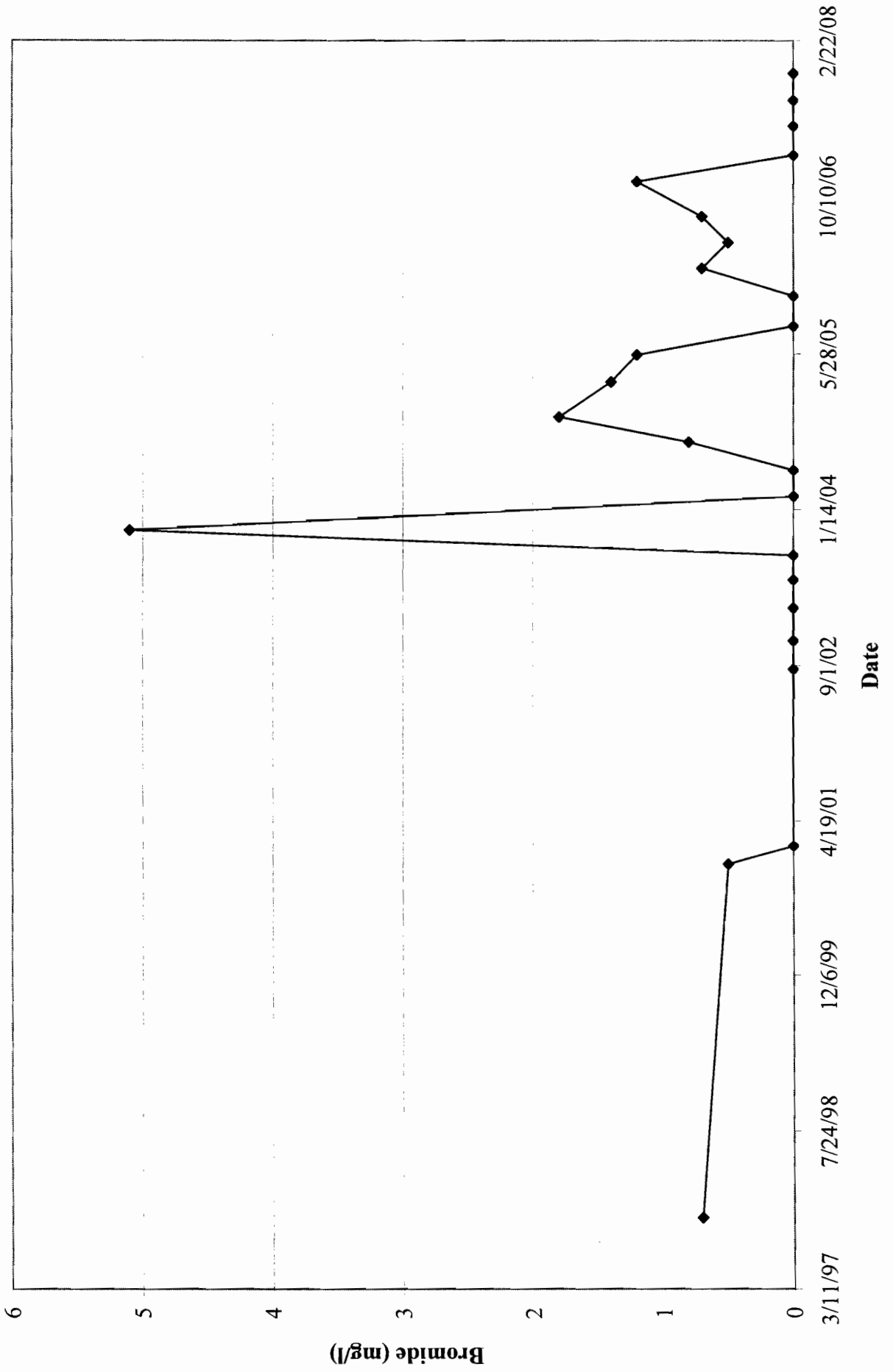
AMMONIA IN MW-01S



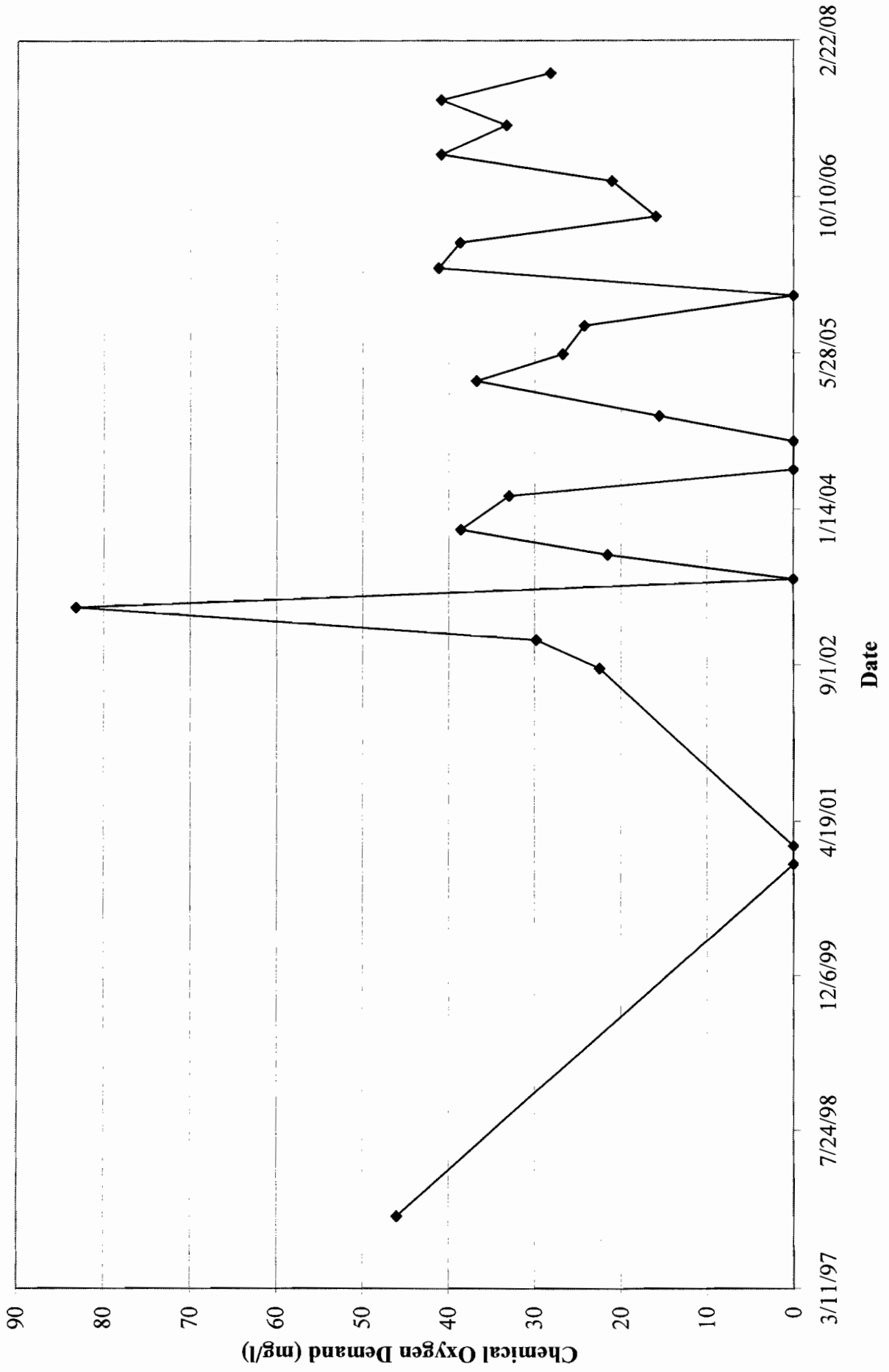
BIOCHEMICAL OXYGEN DEMAND IN MW-01S



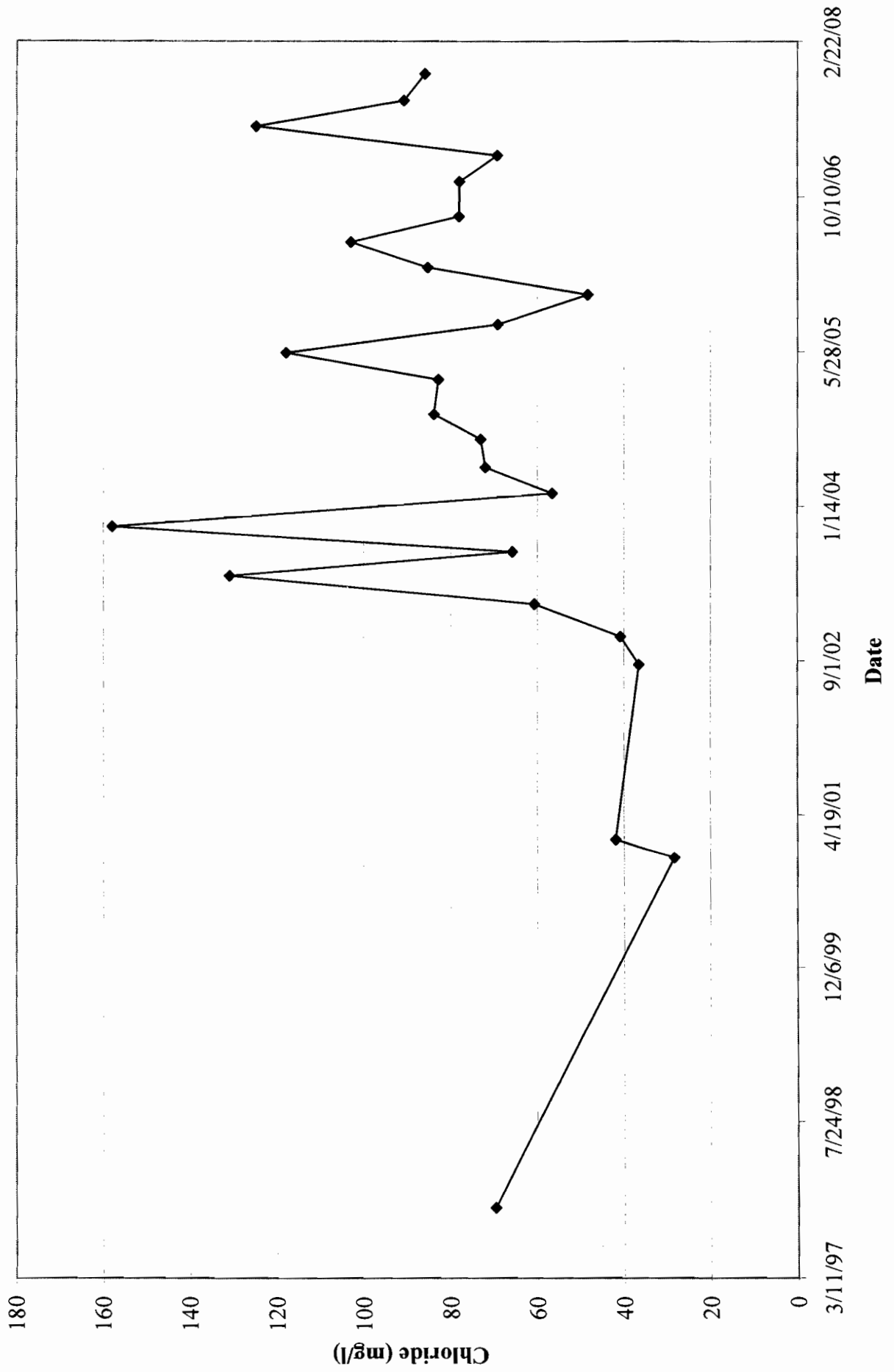
BROMIDE IN MW-01S



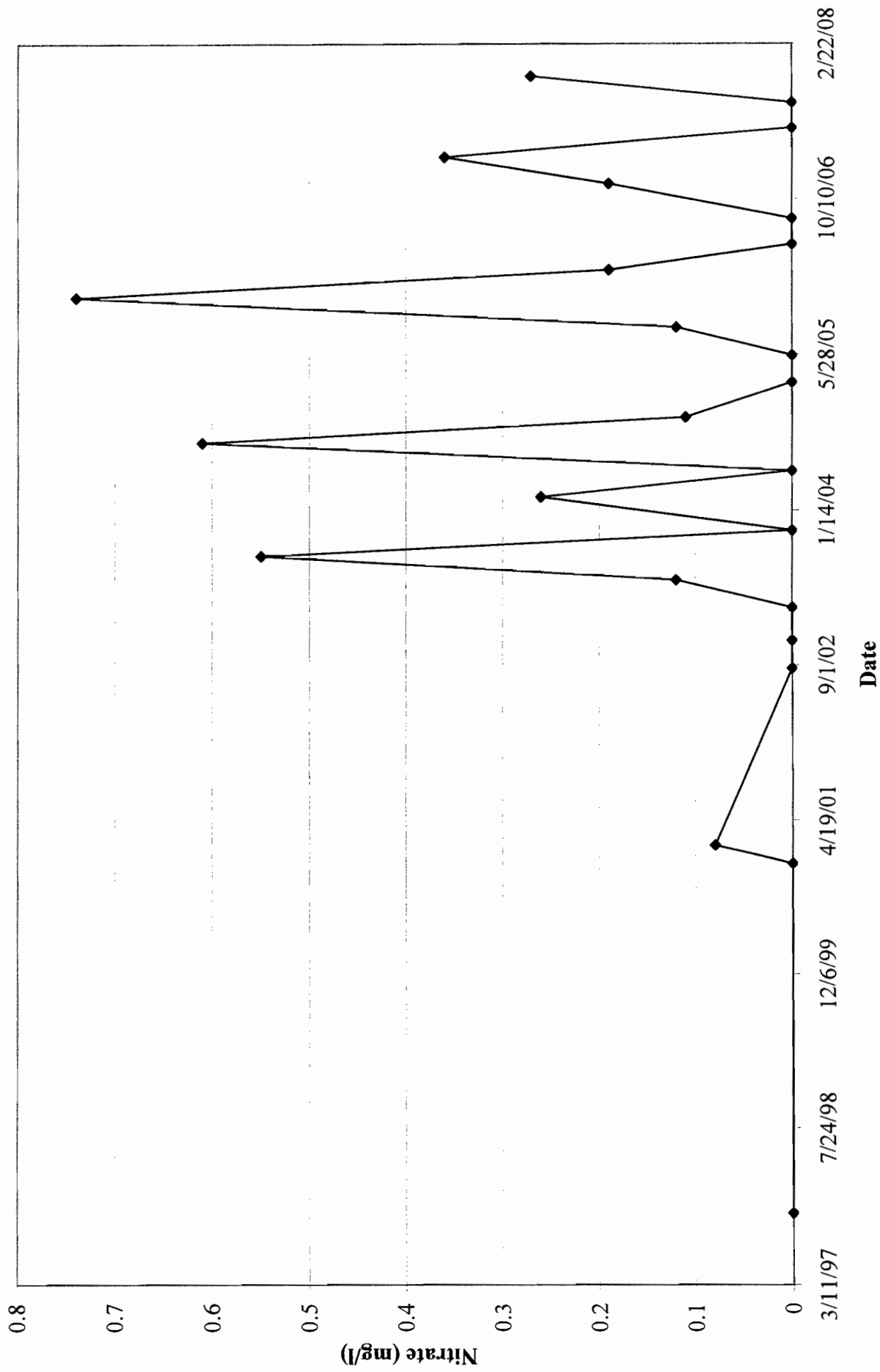
CHEMICAL OXYGEN DEMAND IN MW-01S



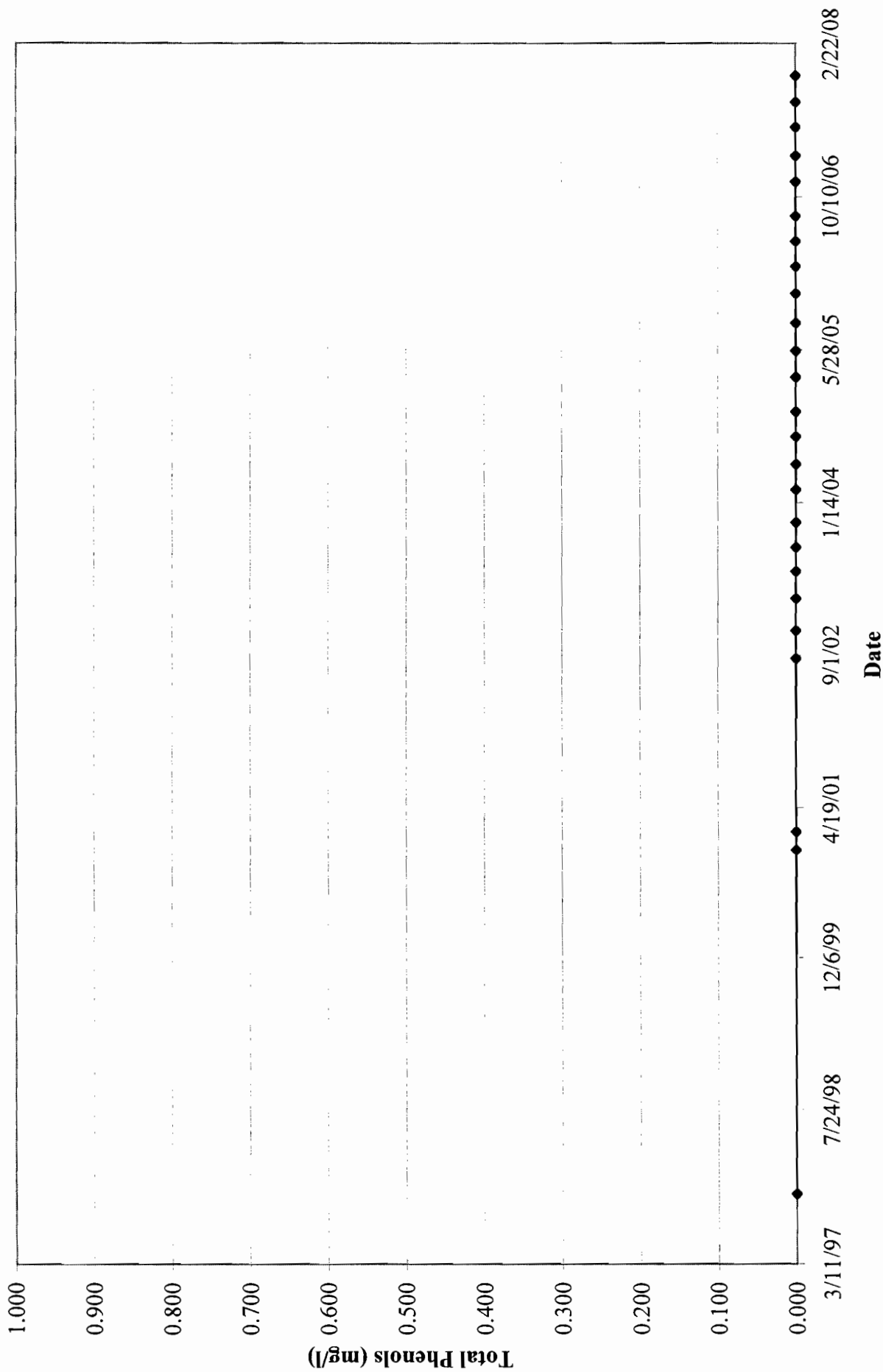
CHLORIDE IN MW-01S



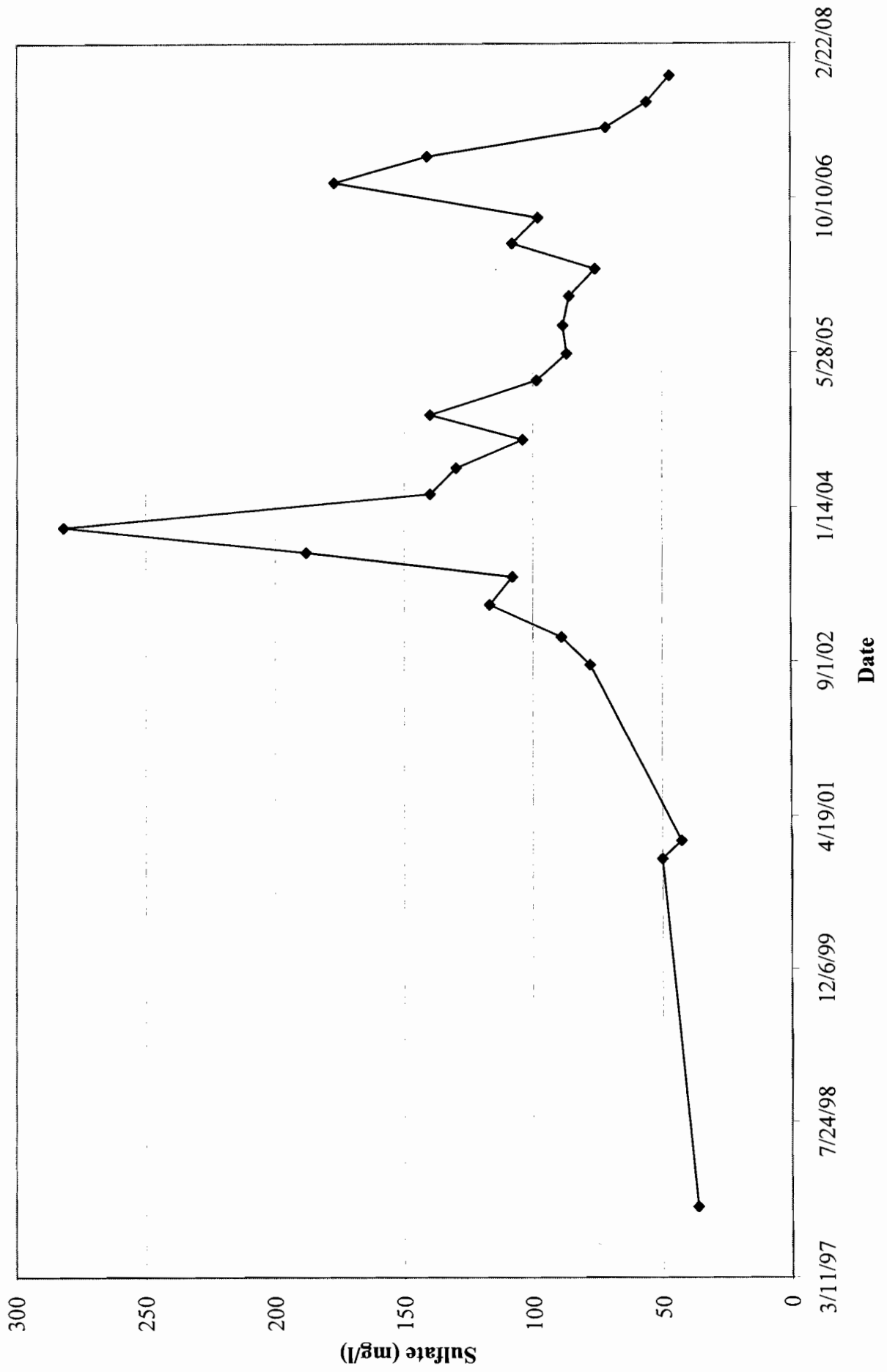
NITRATE IN MW-01S



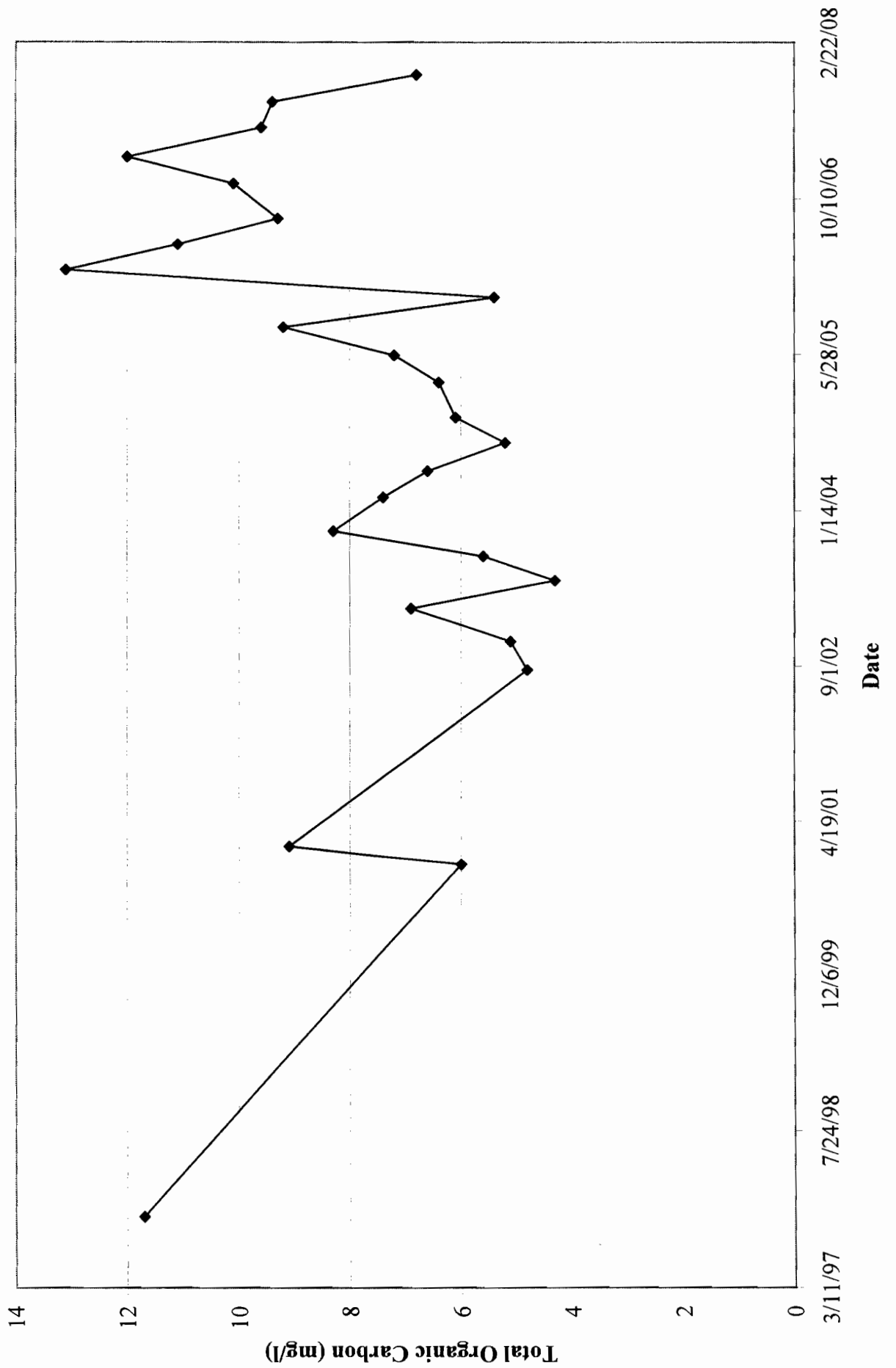
TOTAL PHENOLS IN MW-01S



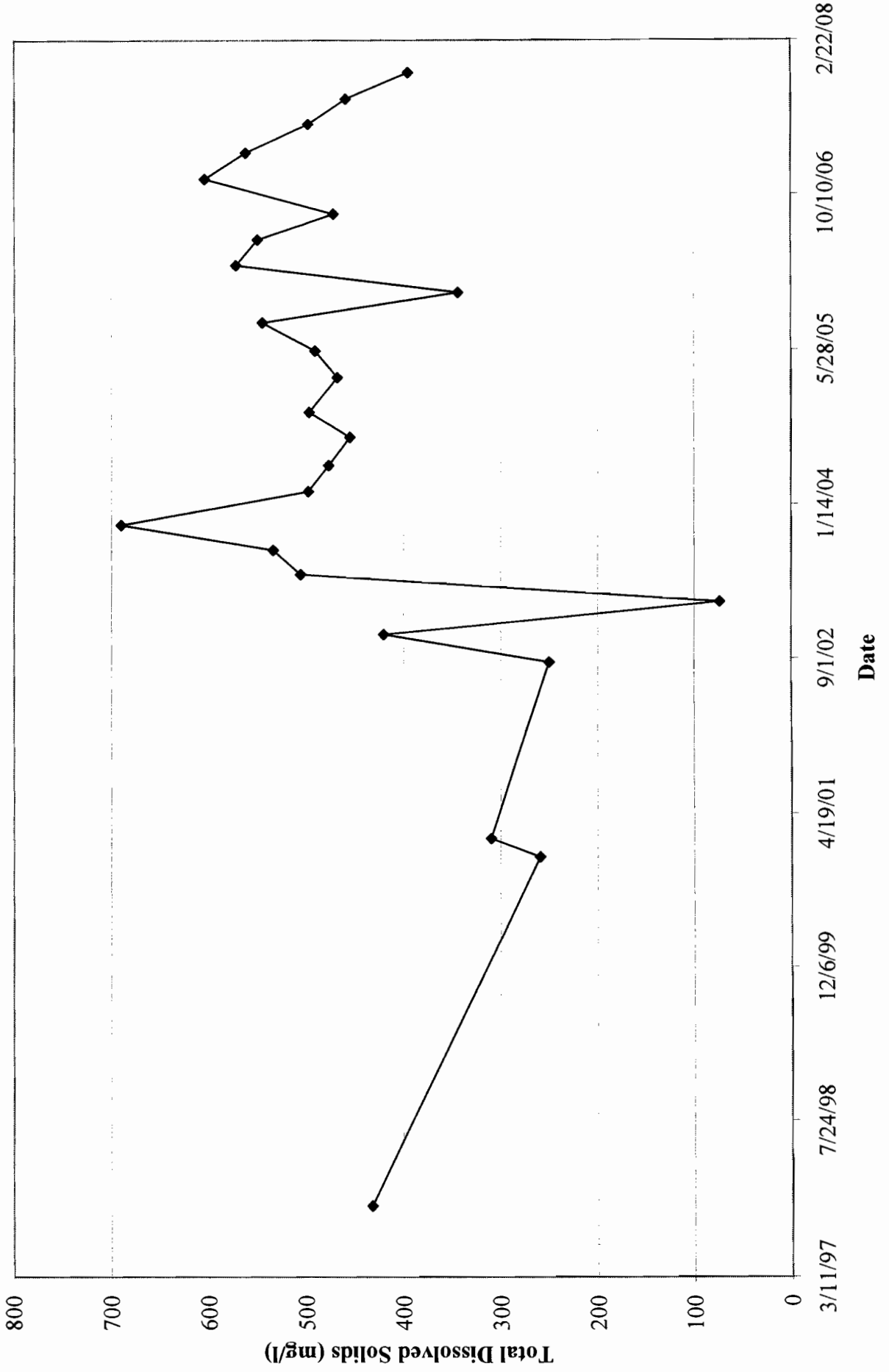
SULFATE IN MW-01S



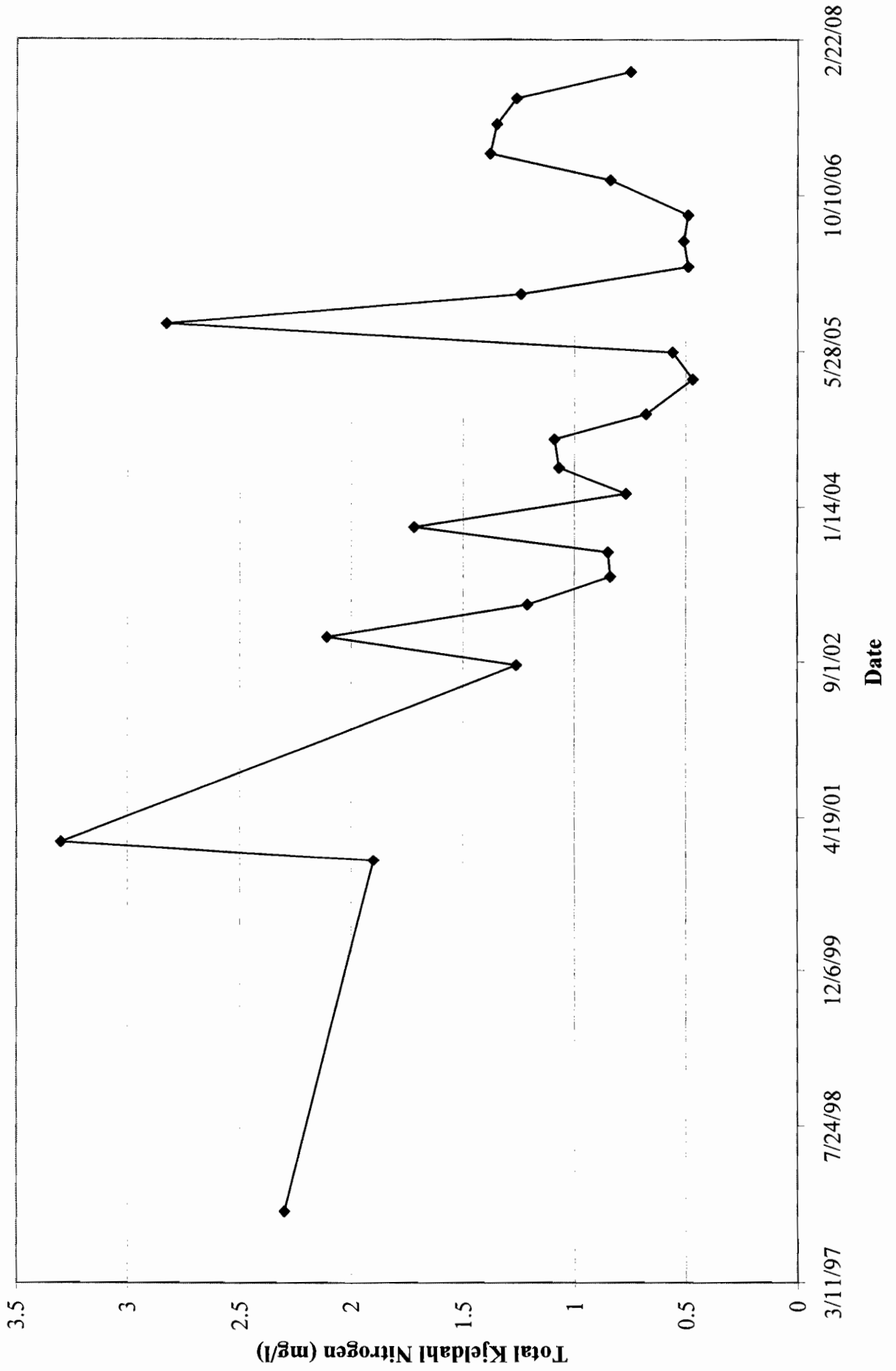
TOTAL ORGANIC CARBON IN MW-01S



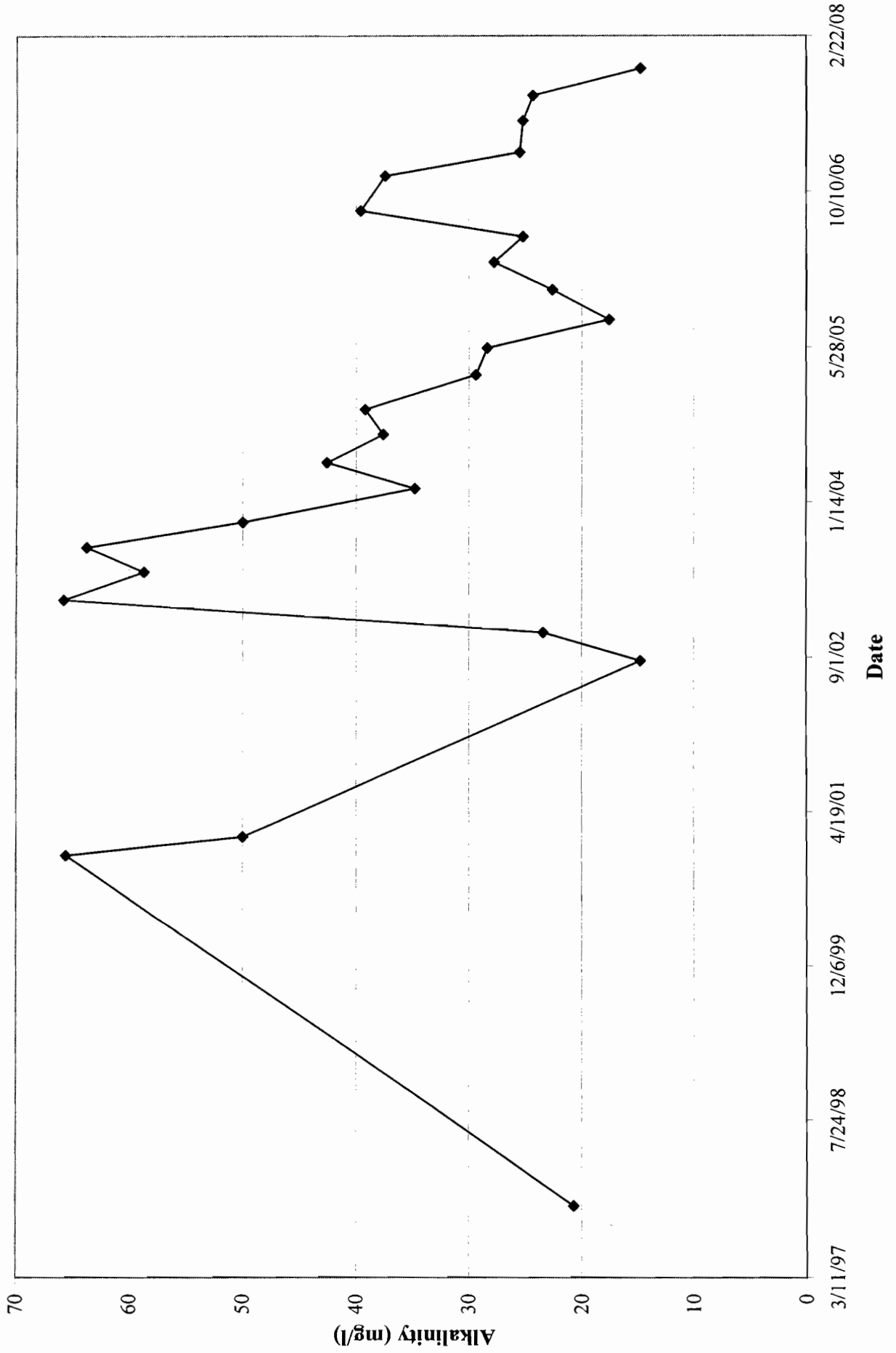
TOTAL DISSOLVED SOLIDS IN MW-01S



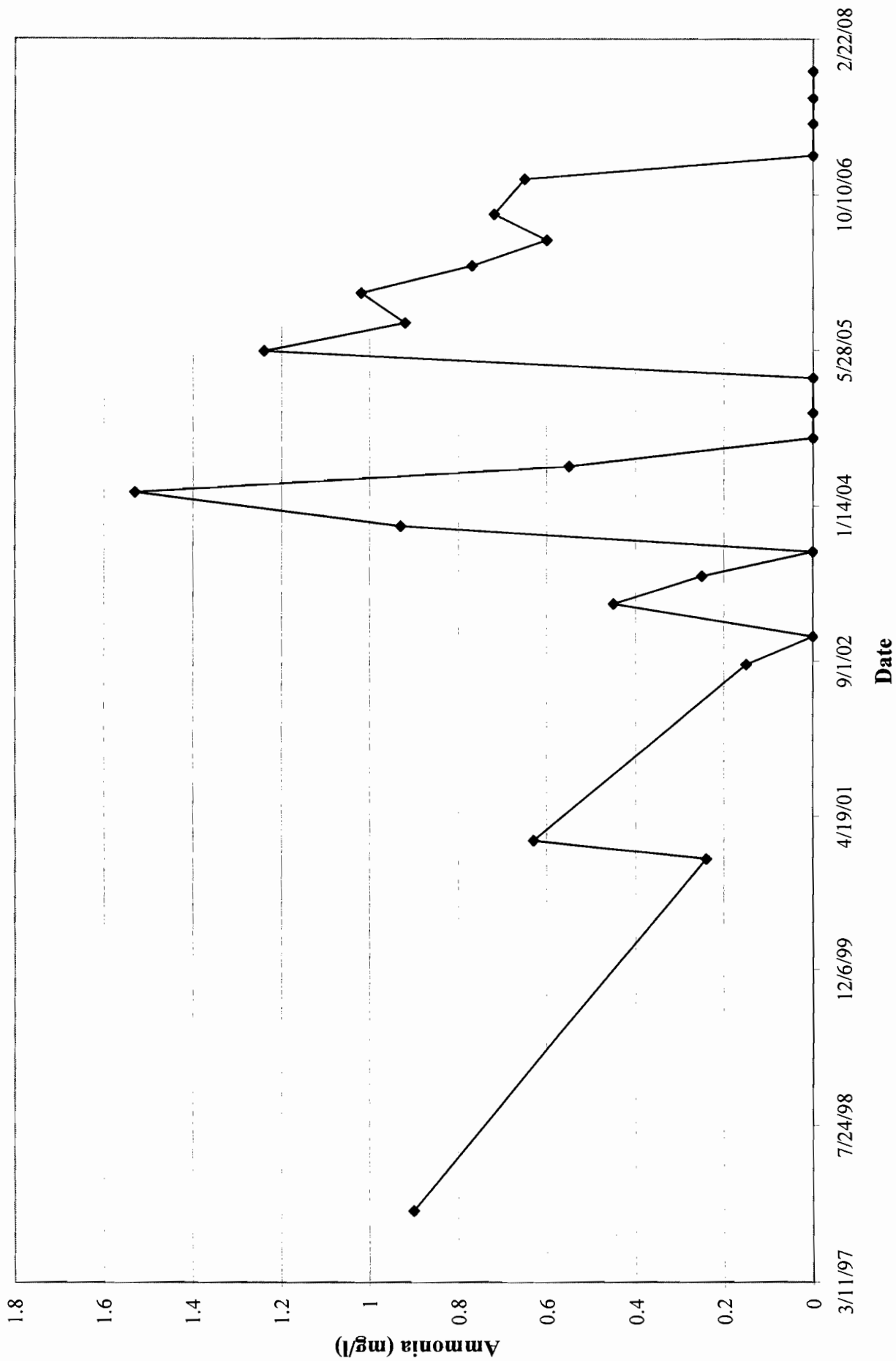
TOTAL KJELDAHL NITROGEN IN MW-01S



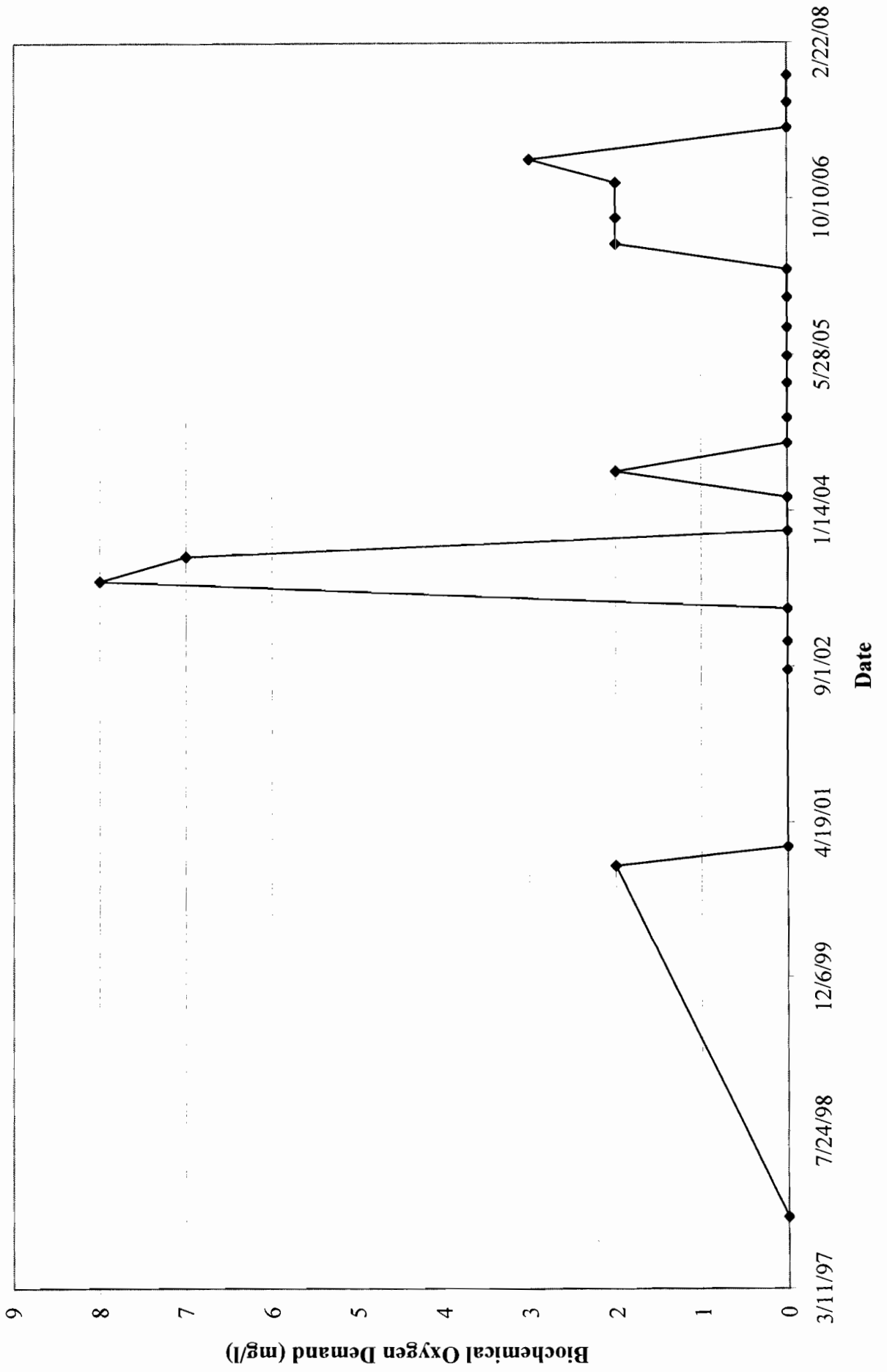
ALKALINITY IN MW-011



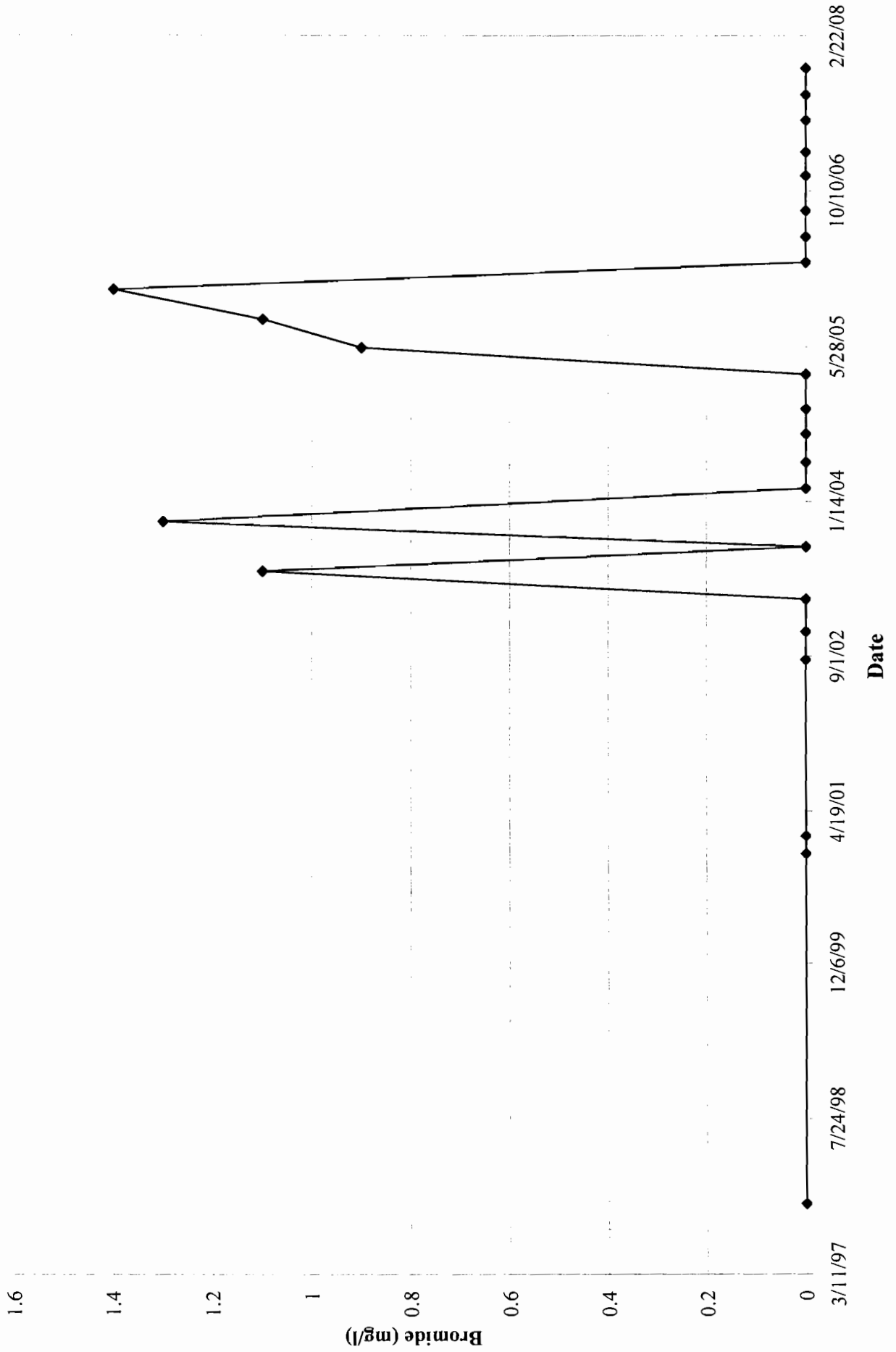
AMMONIA IN MW-01I



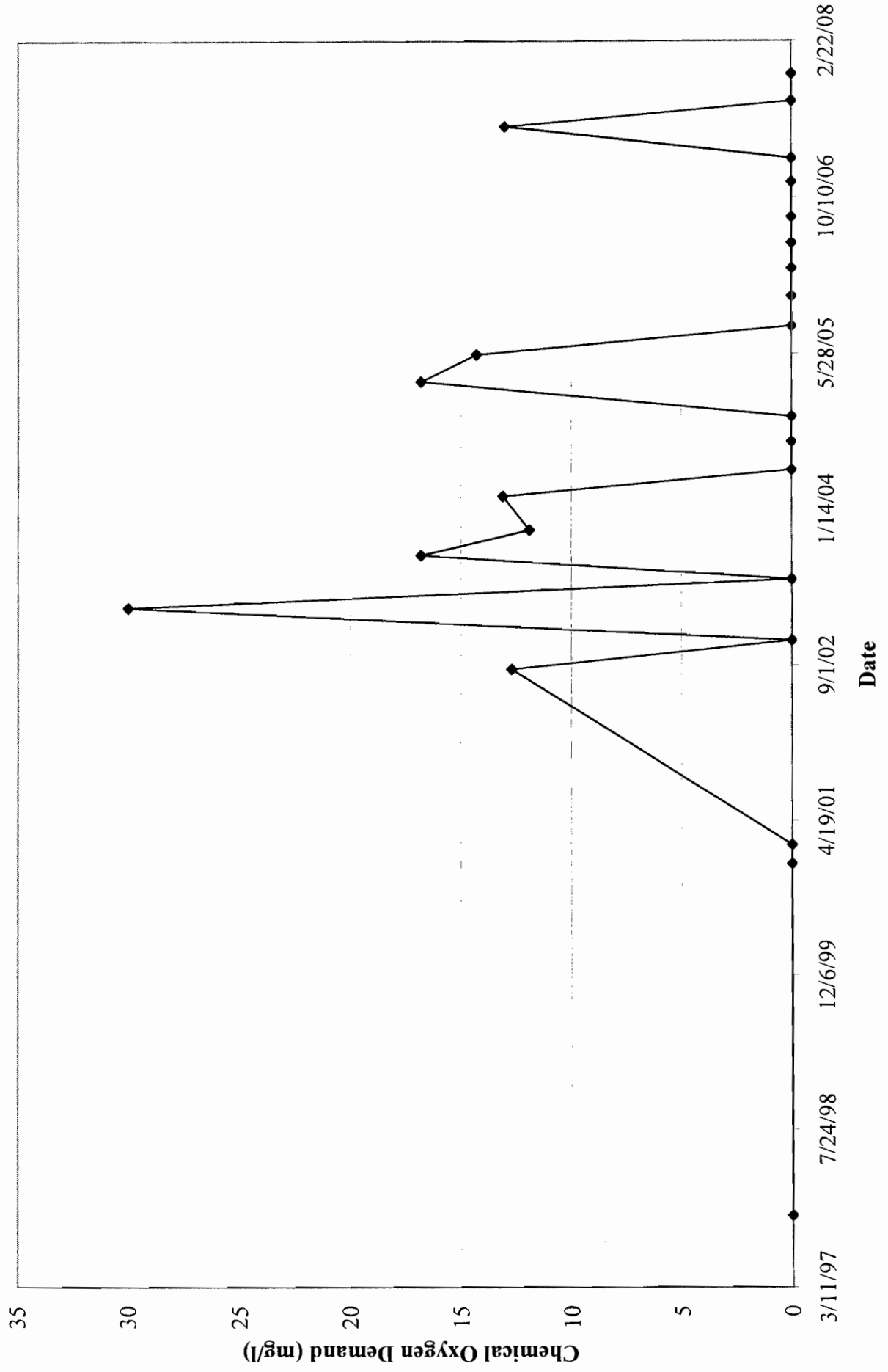
BIOCHEMICAL OXYGEN DEMAND IN MW-011



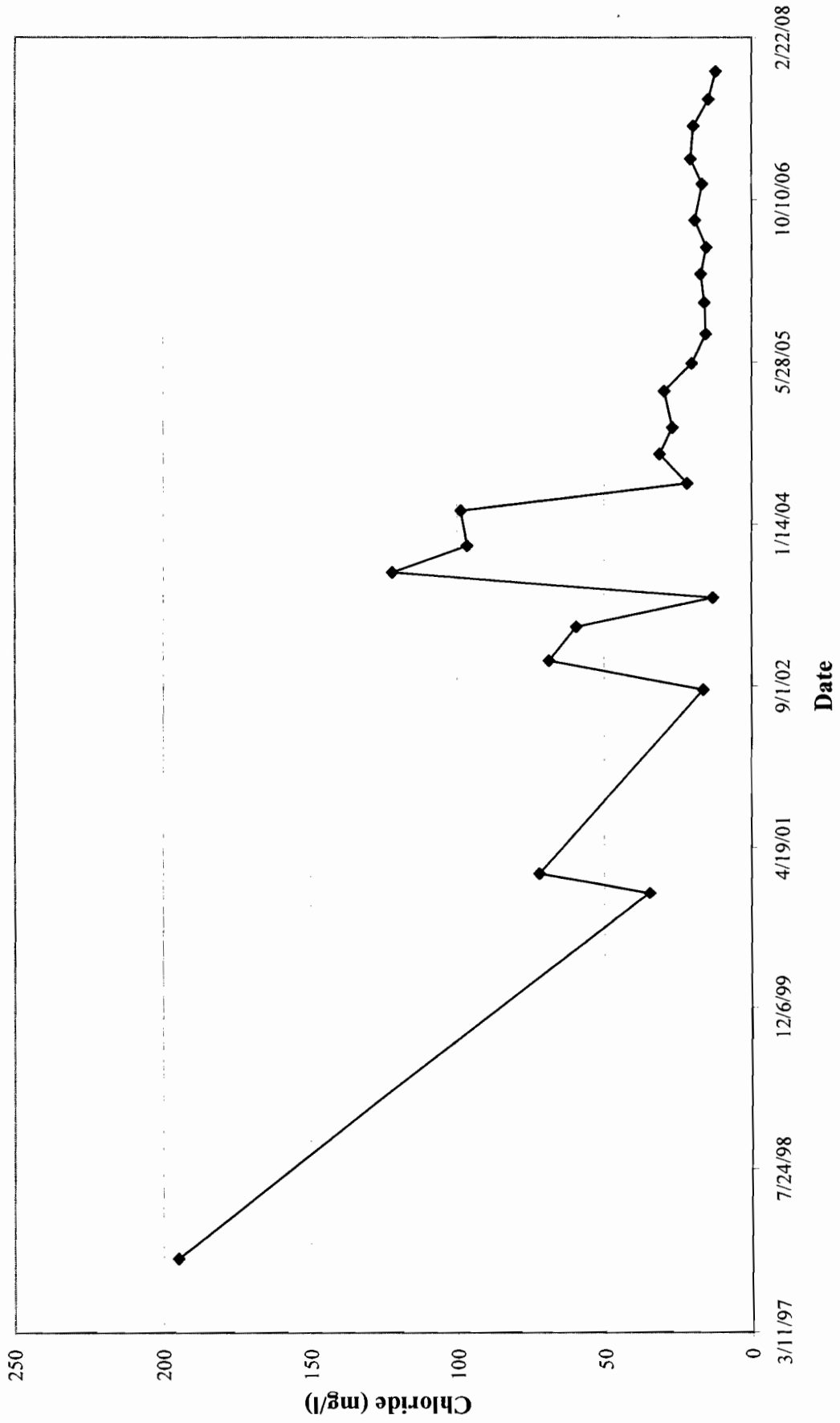
BROMIDE IN MW-01I



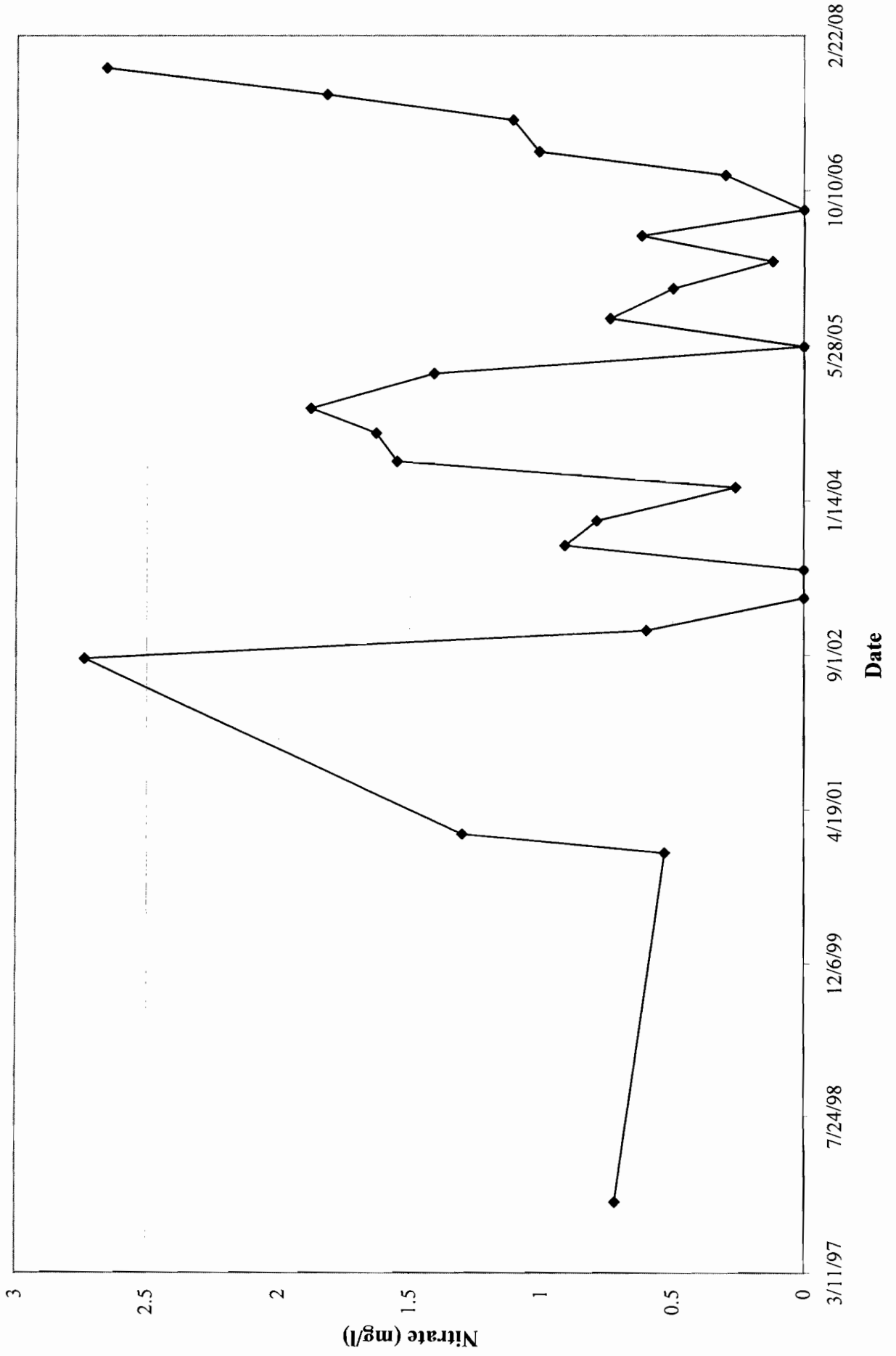
CHEMICAL OXYGEN DEMAND IN MW-01I



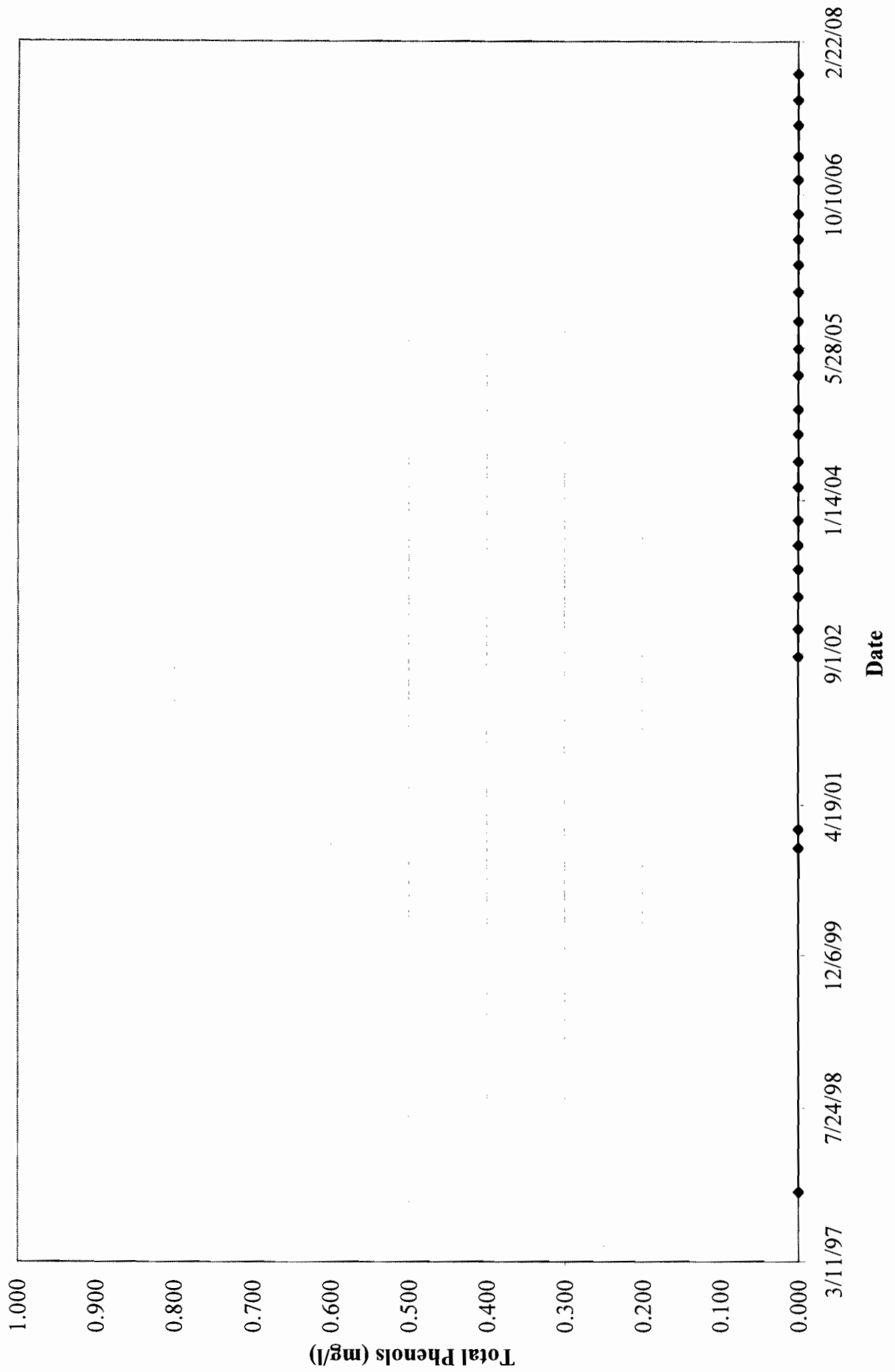
CHLORIDE IN MW-011



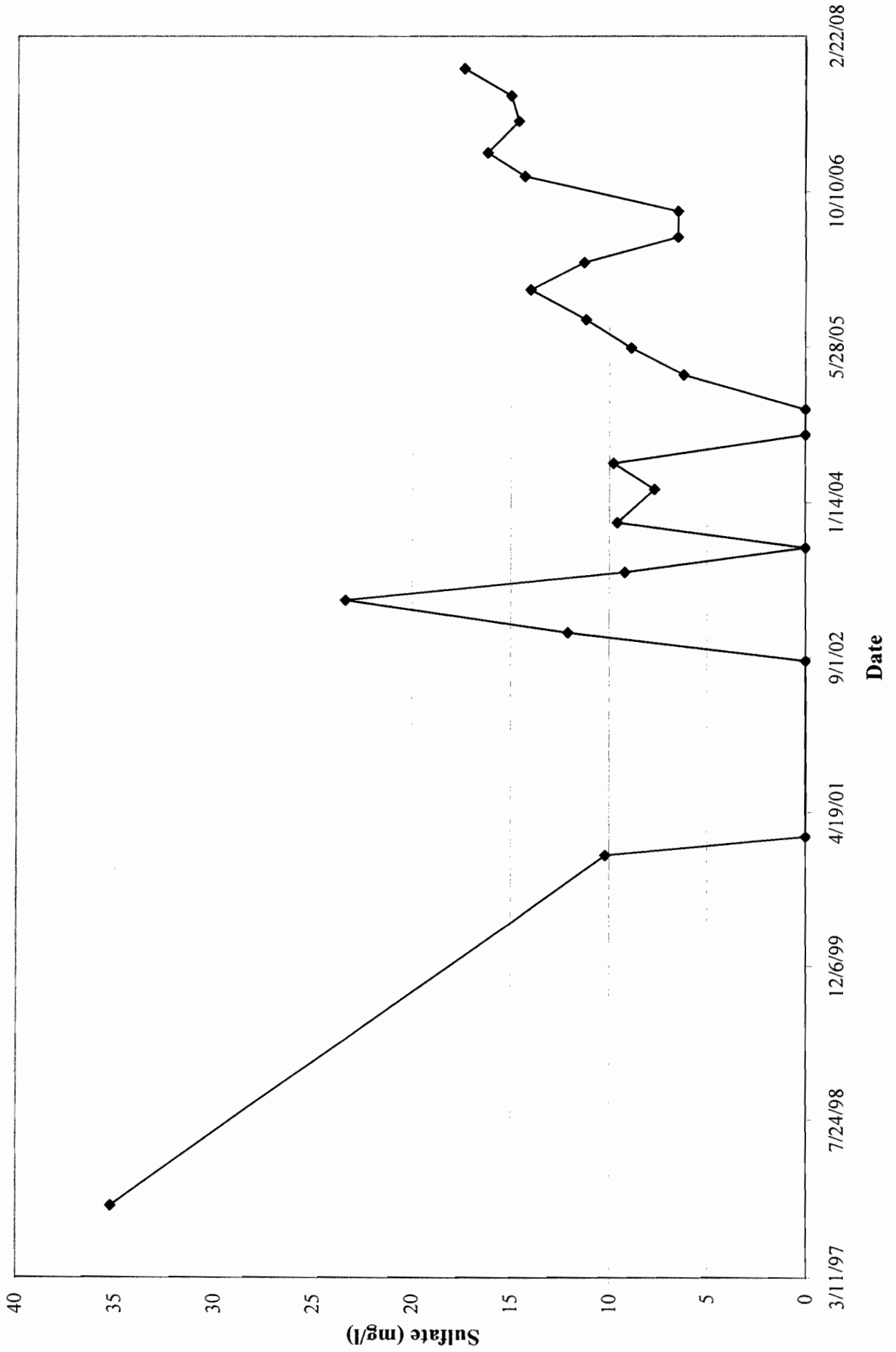
NITRATE IN MW-01I



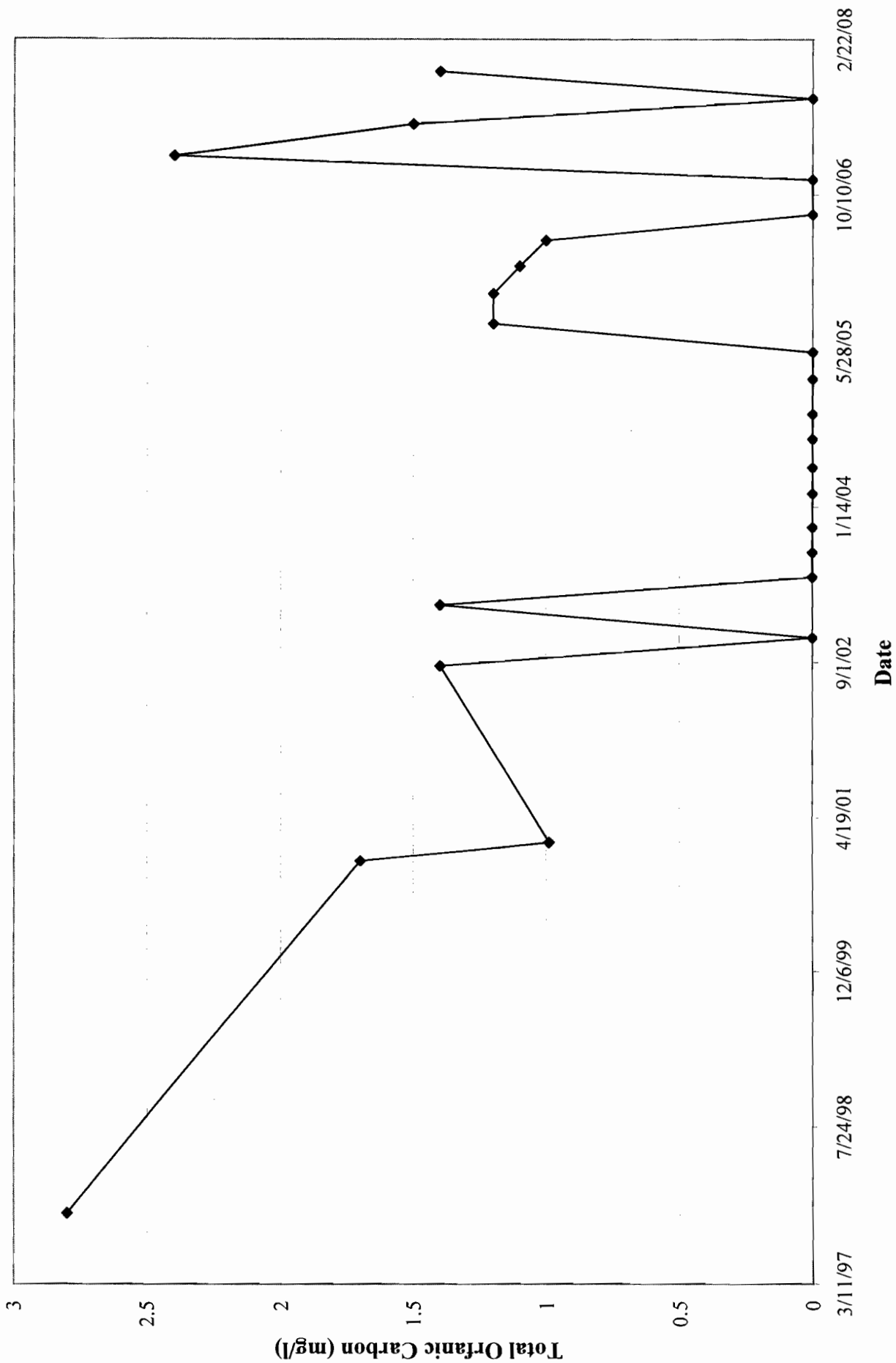
TOTAL PHENOLS IN MW-01I



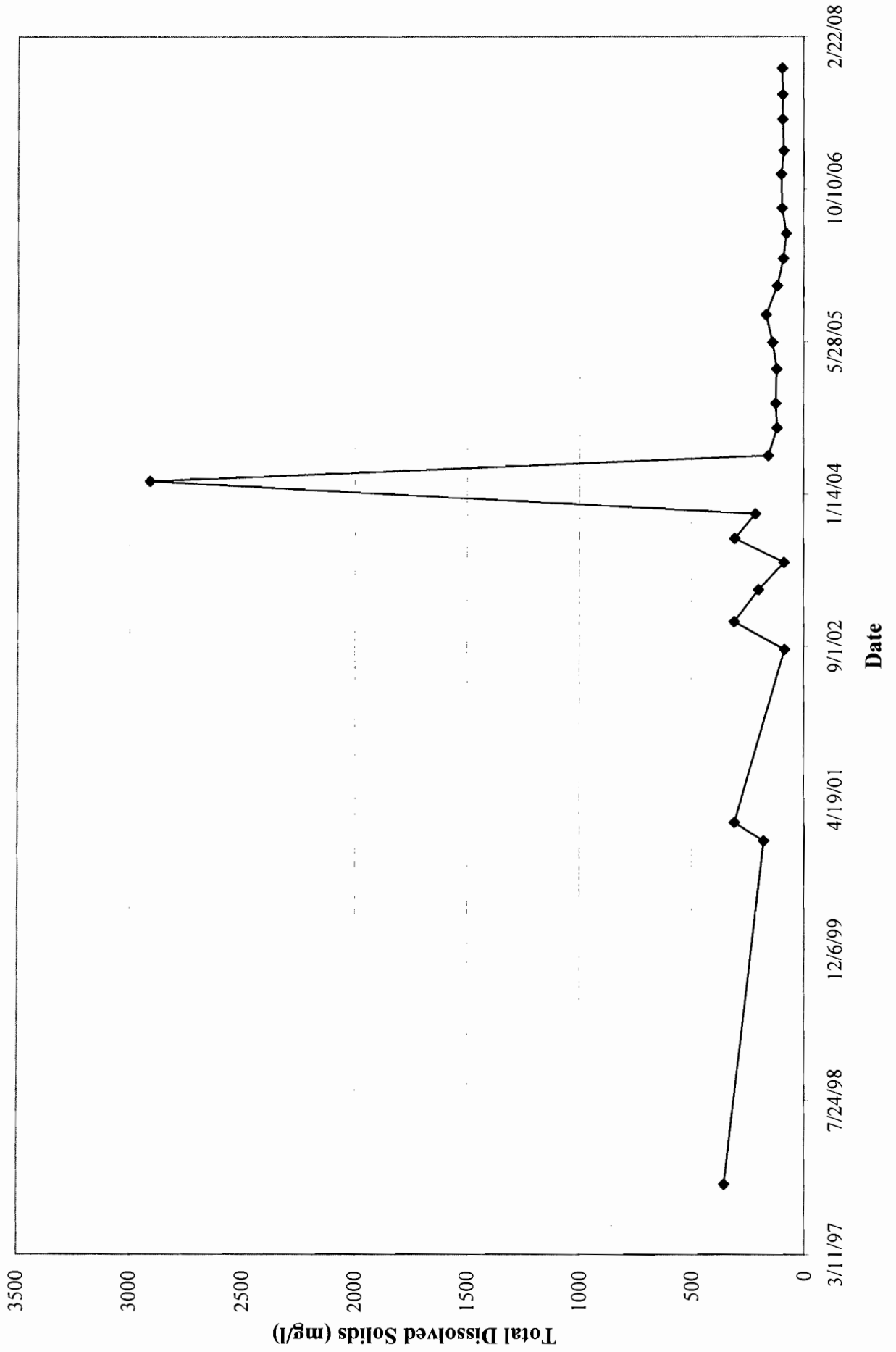
SULFATE IN MW-01I



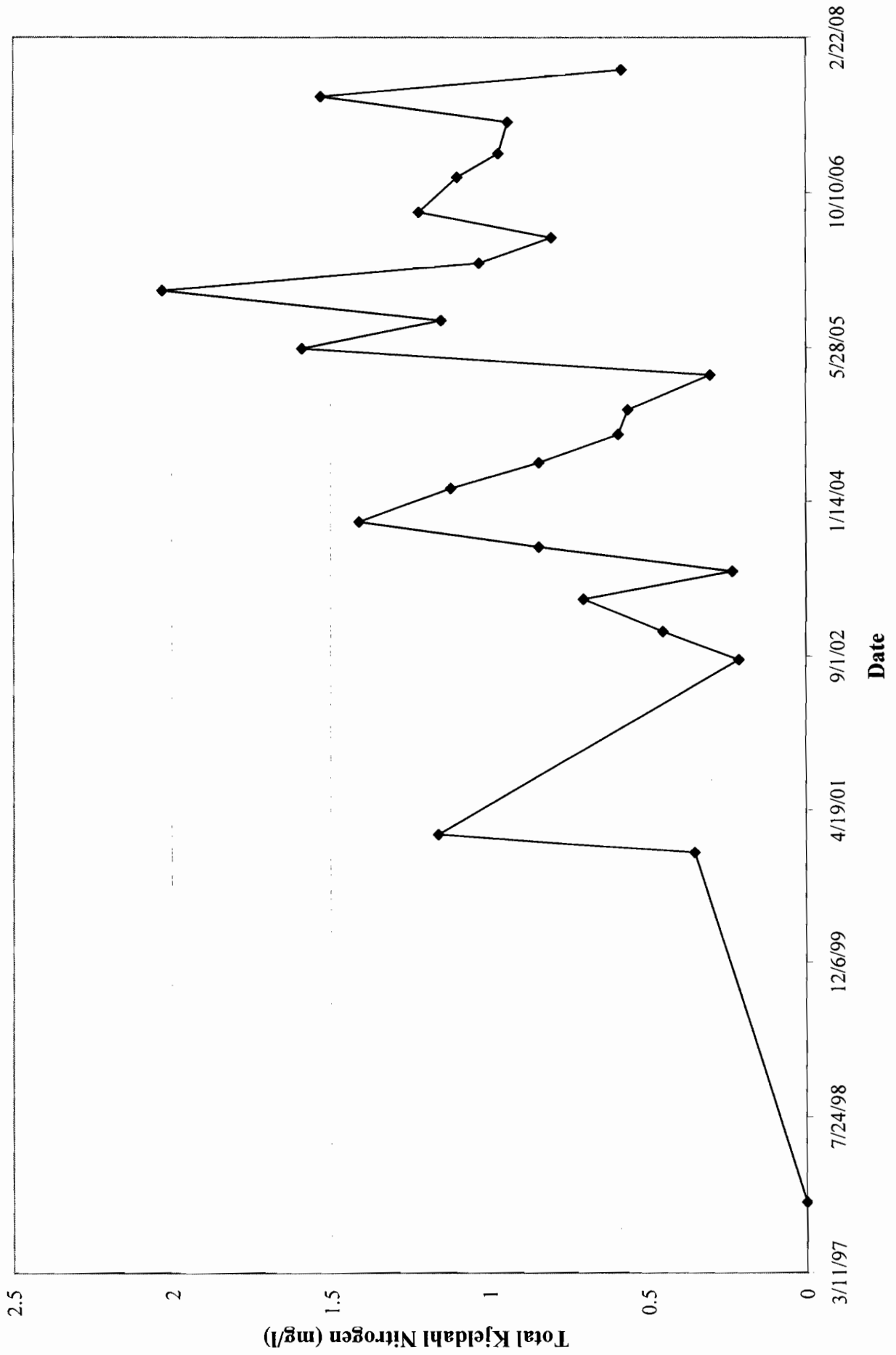
TOTAL ORGANIC CARBON IN MW-01I



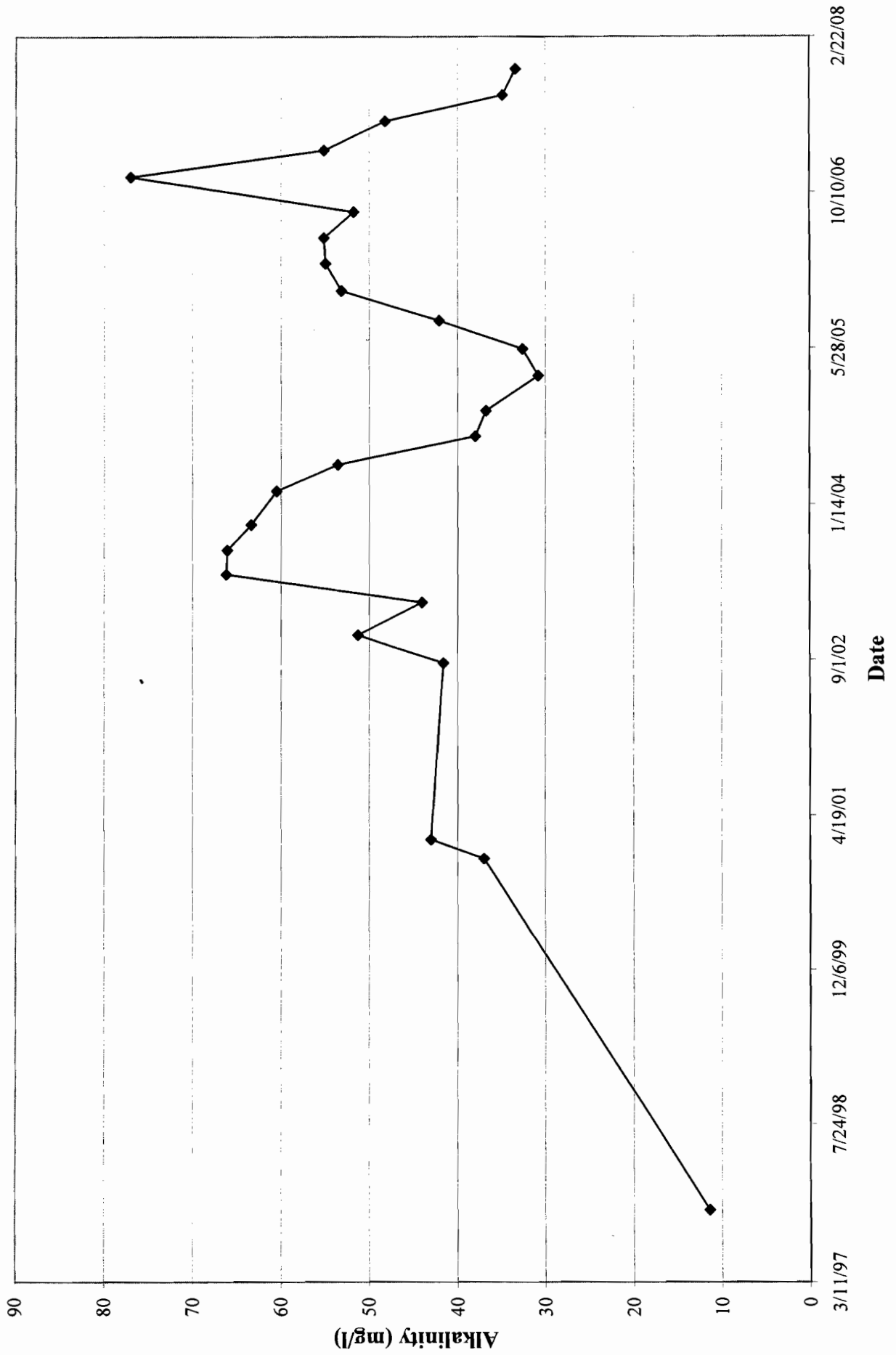
TOTAL DISSOLVED SOLIDS IN MW-011



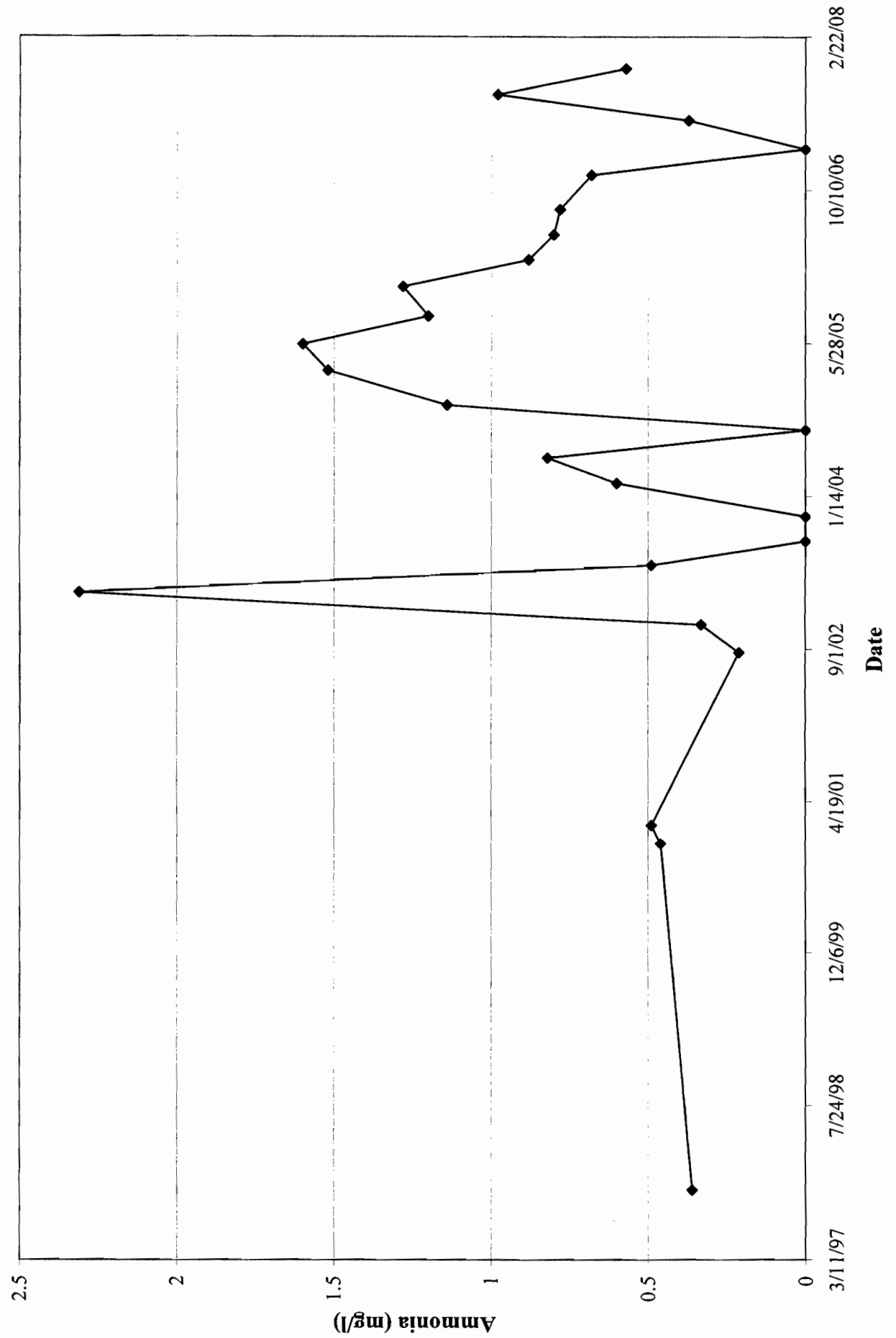
TOTAL KJELDAHL NITROGEN IN MW-011



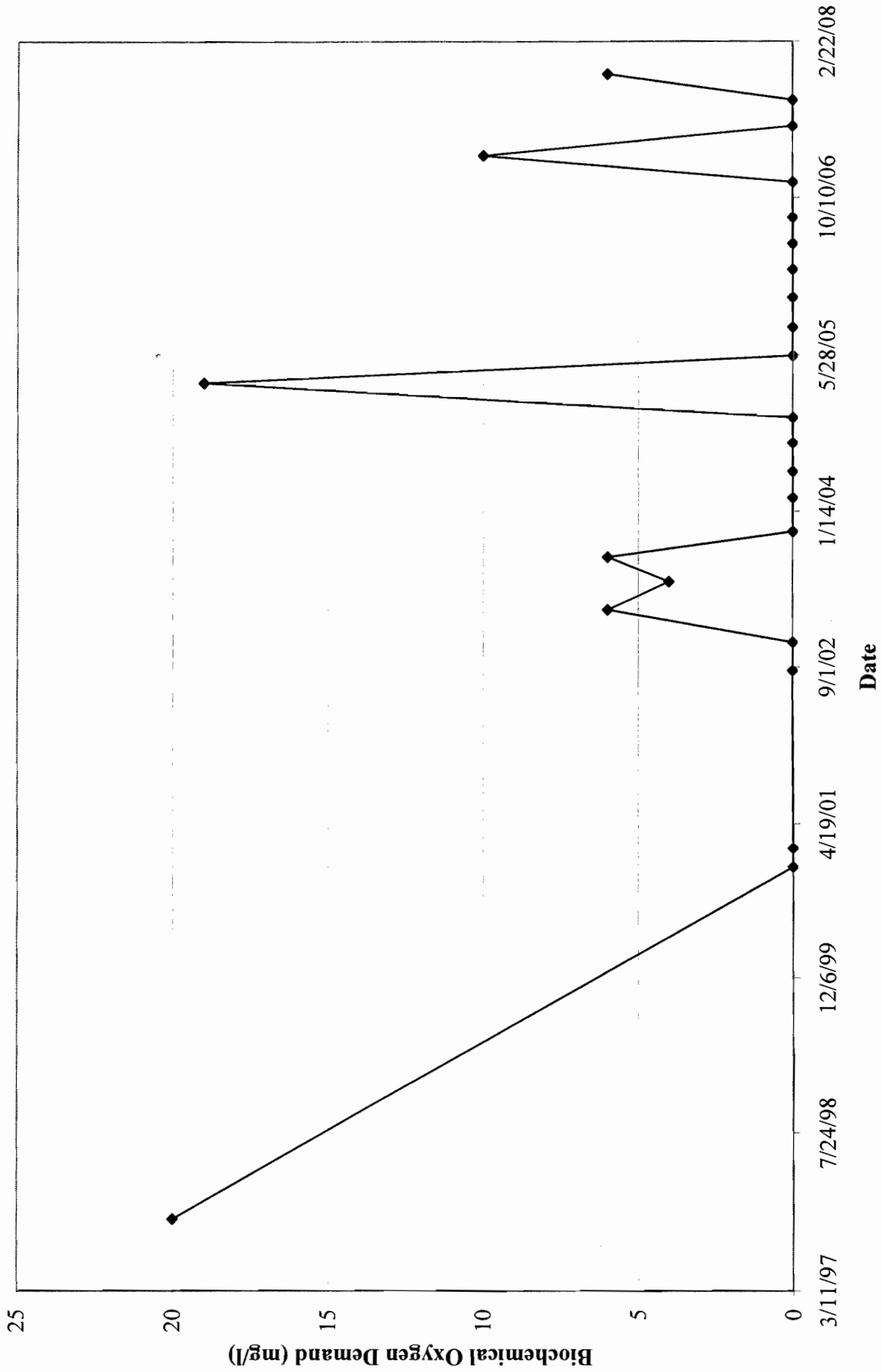
ALKALINITY IN MW-01D



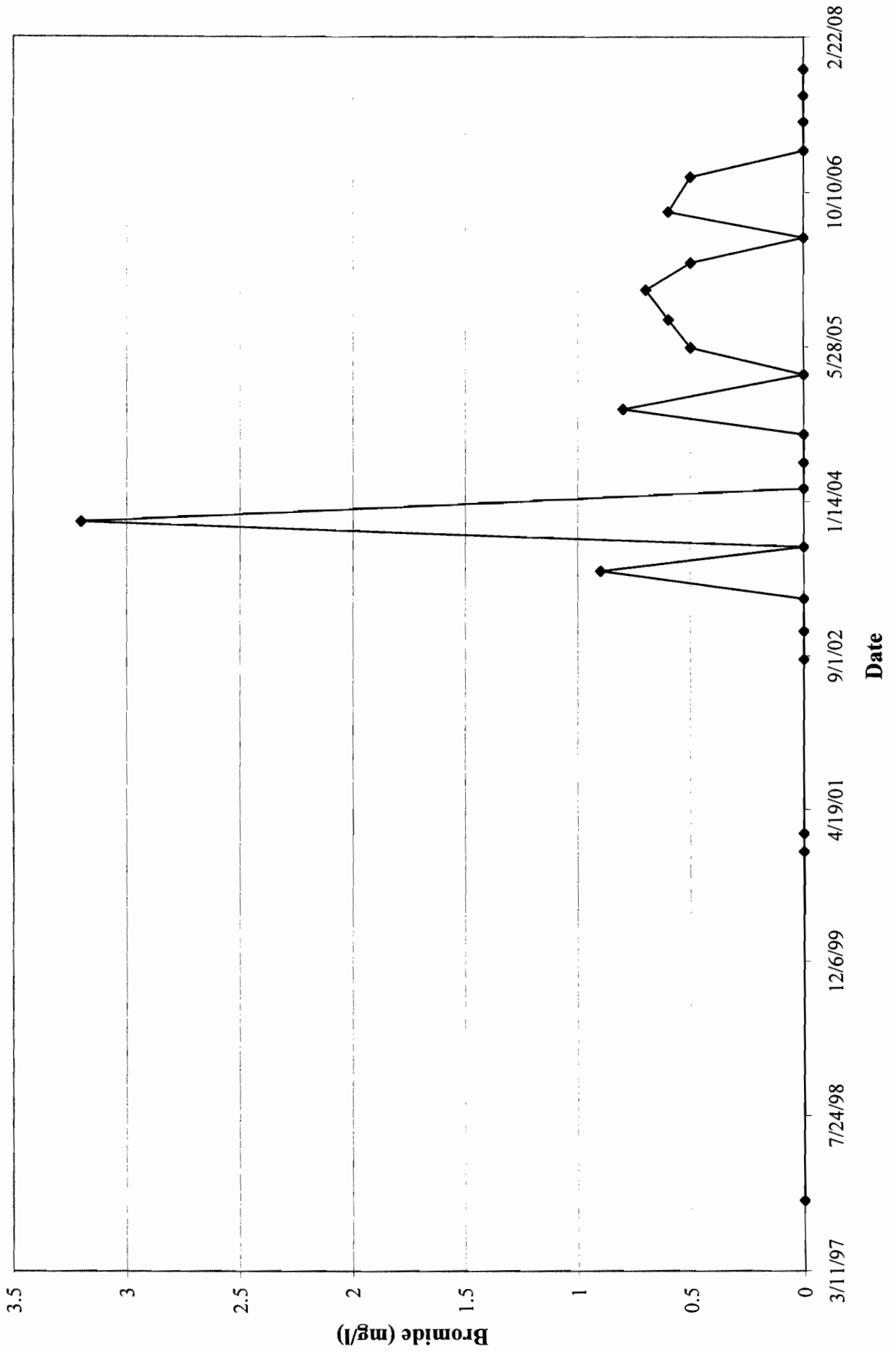
AMMONIA IN MW-01D



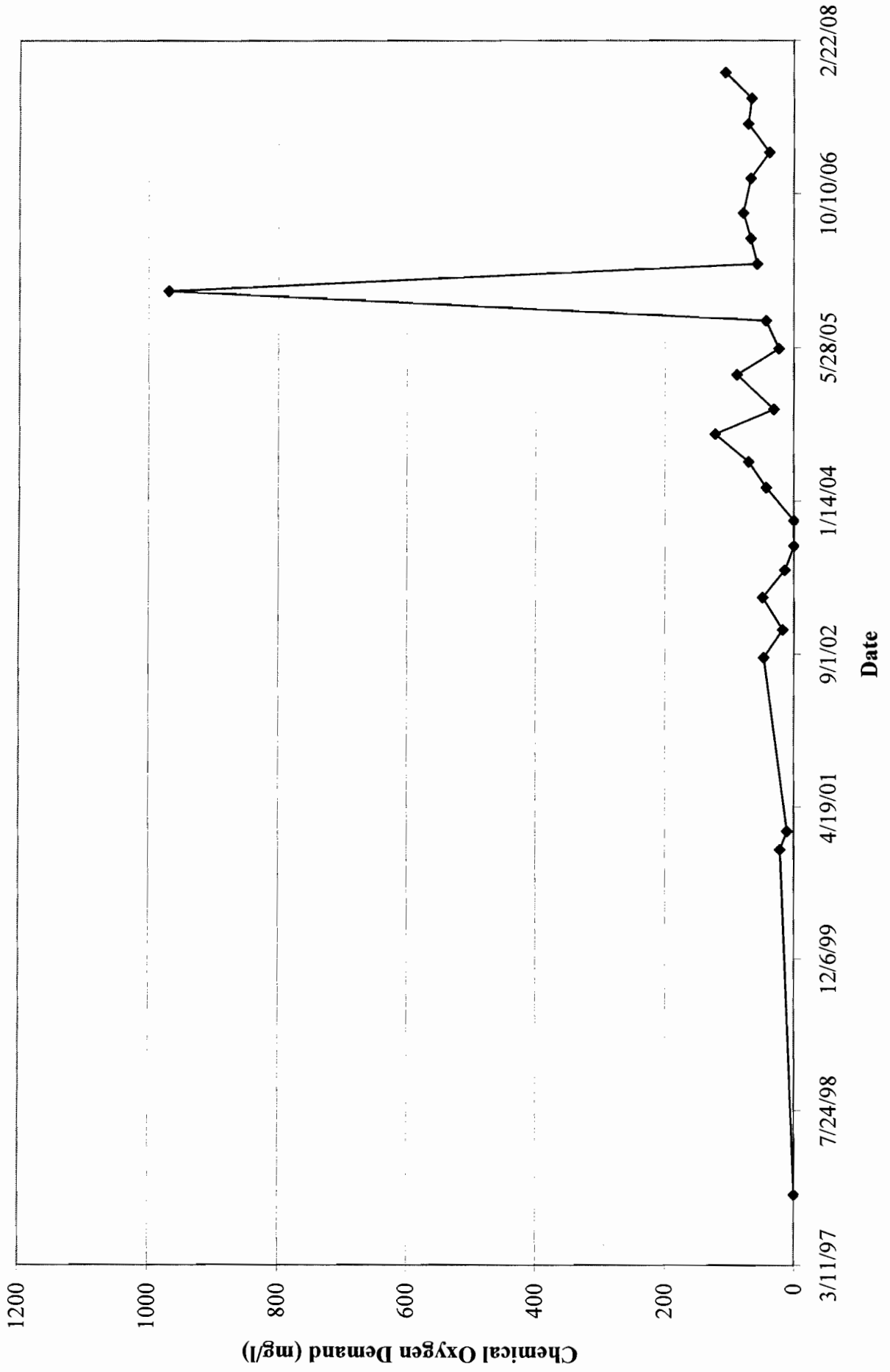
BIOCHEMICAL OXYGEN DEMAND IN MW-01D



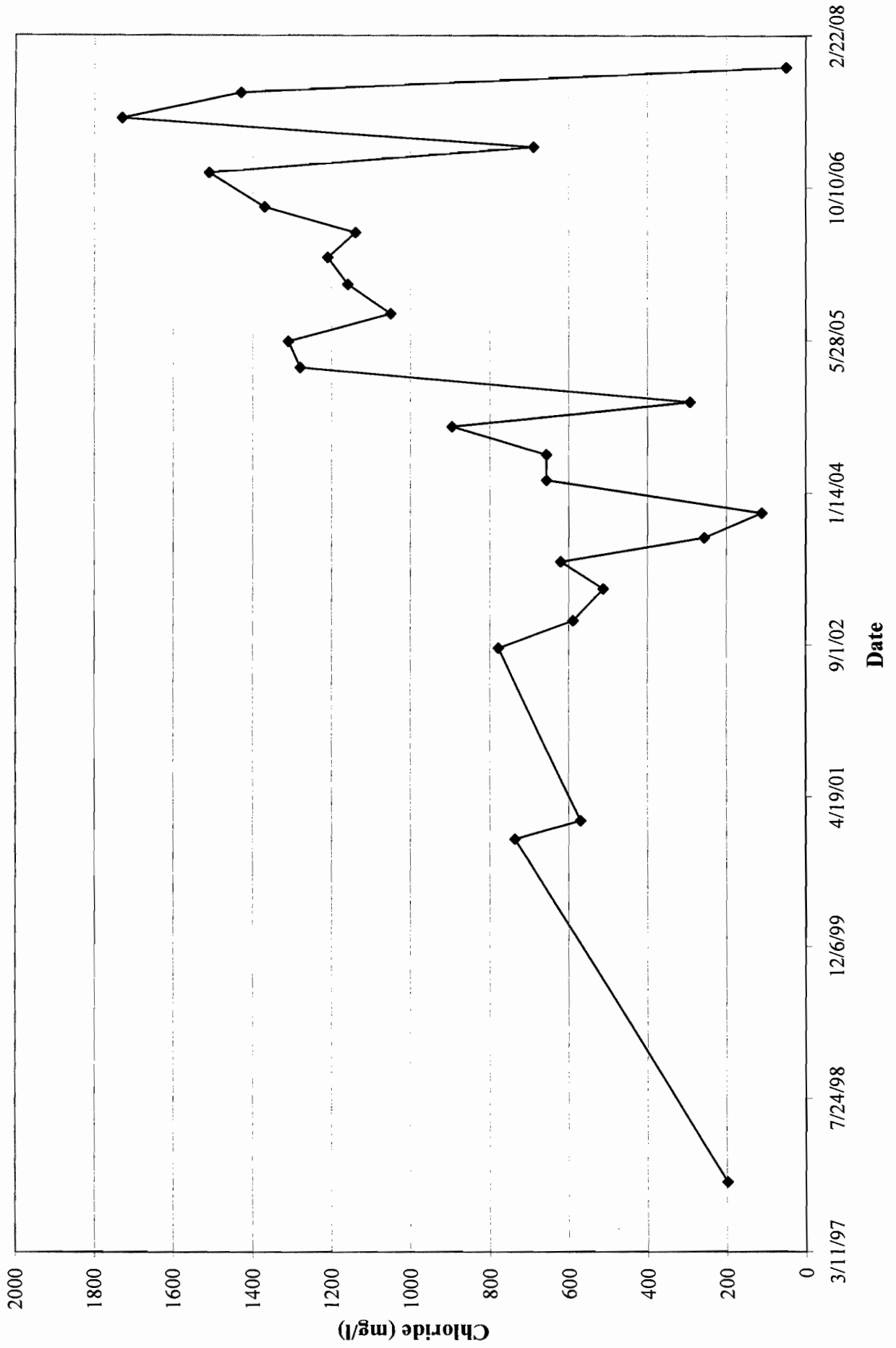
BROMIDE IN MW-01D



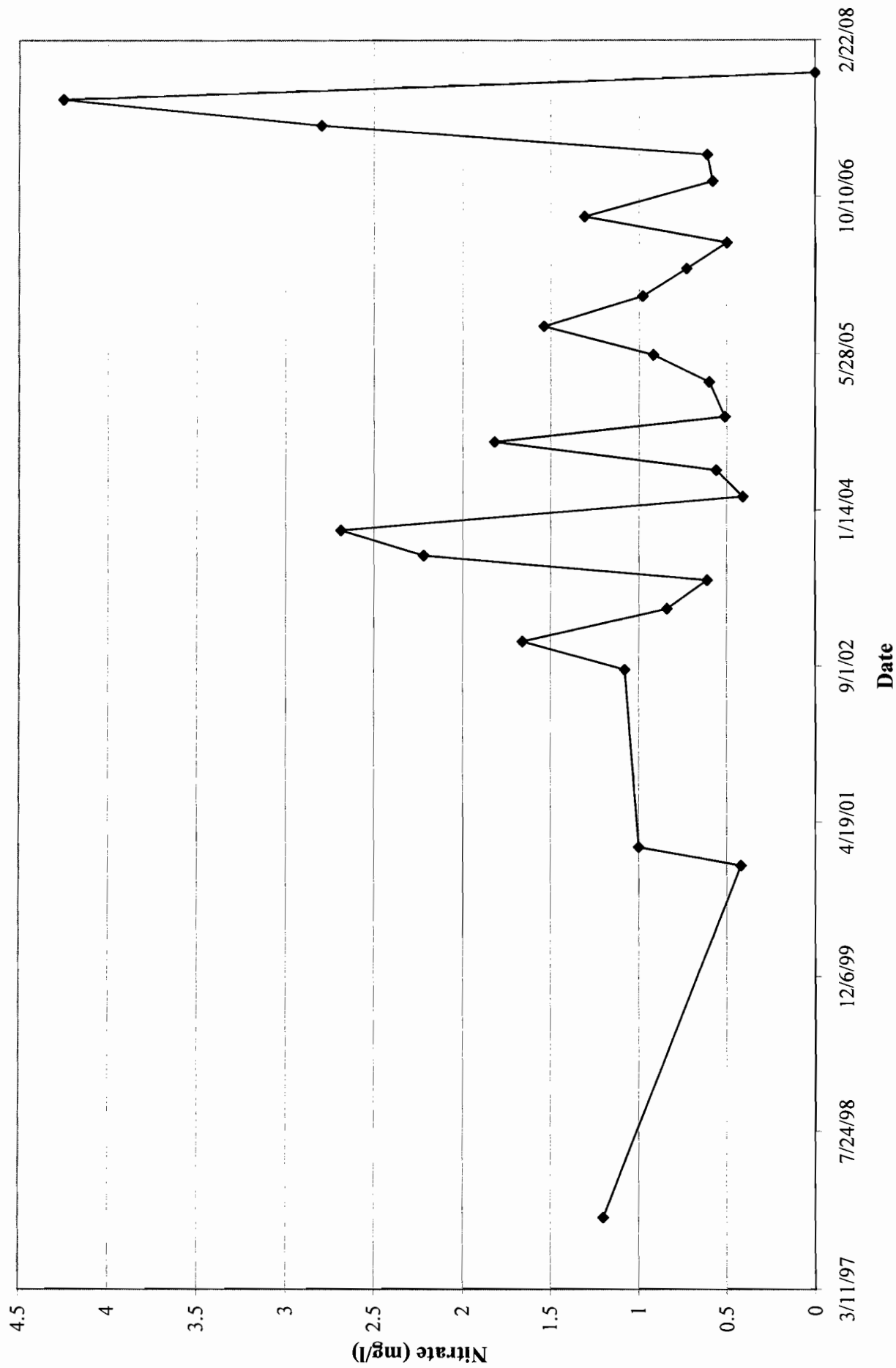
CHEMICAL OXYGEN DEMAND IN MW-01D



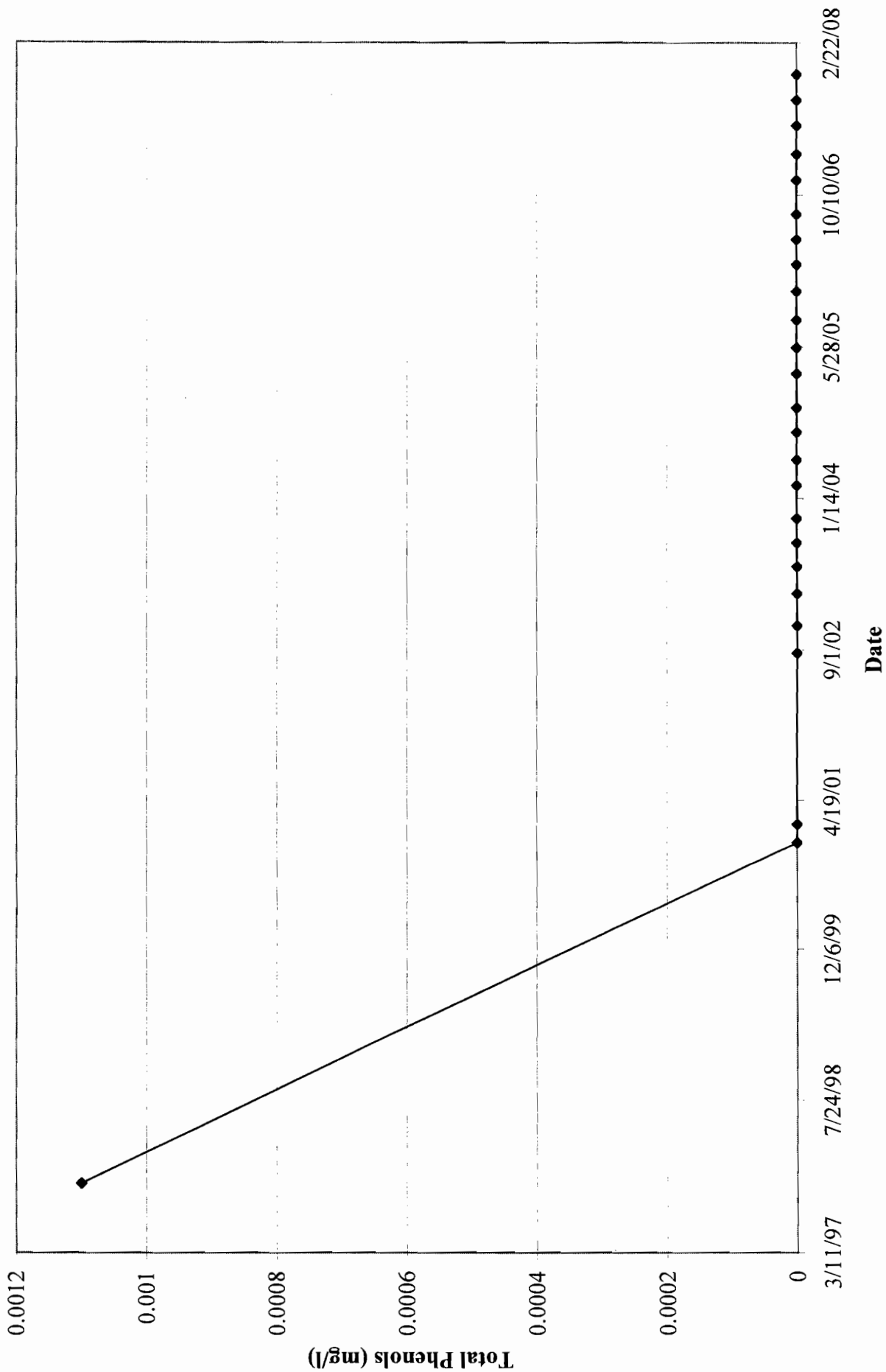
CHLORIDE IN MW-01D



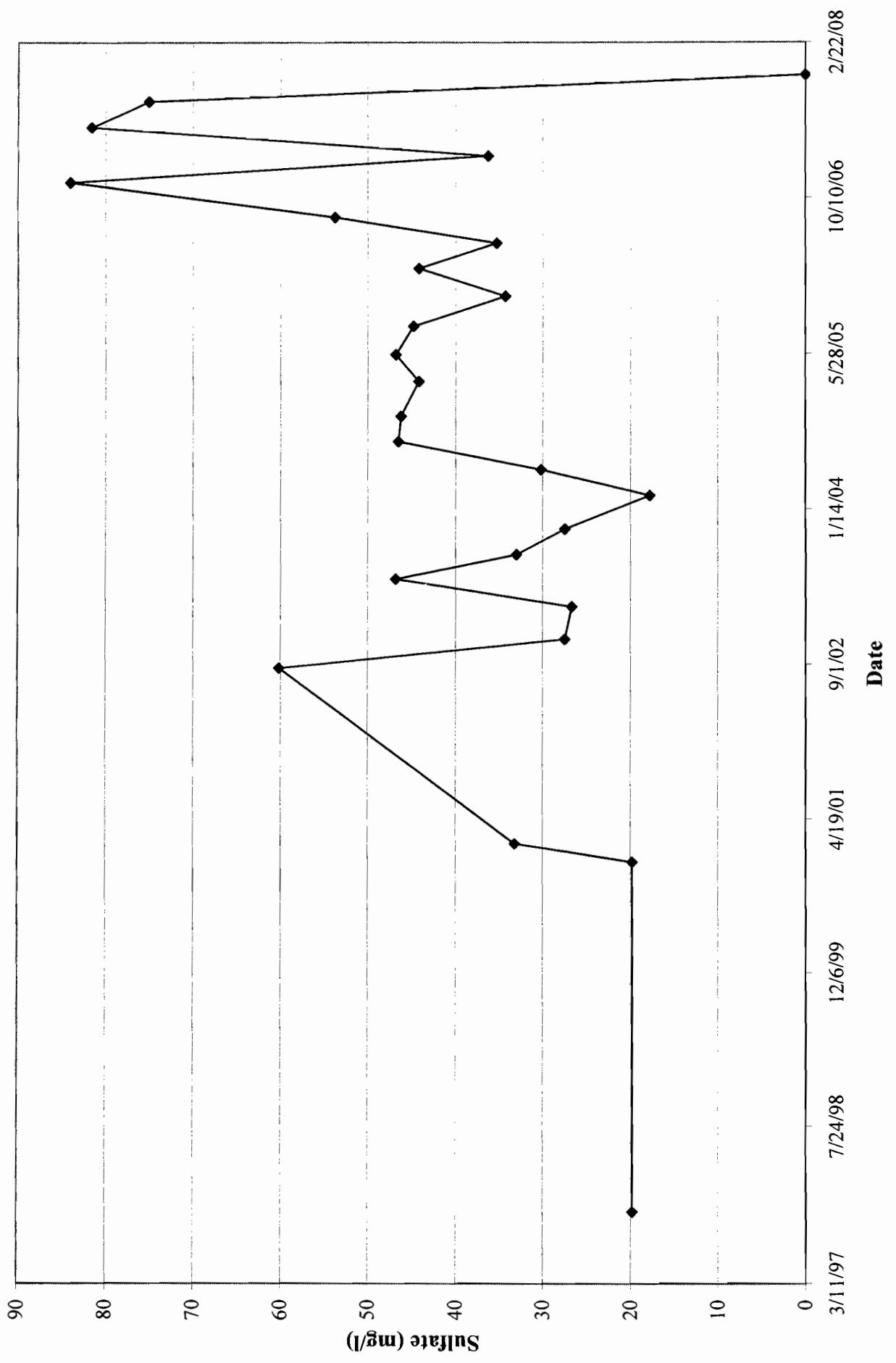
NITRATE IN MW-01D



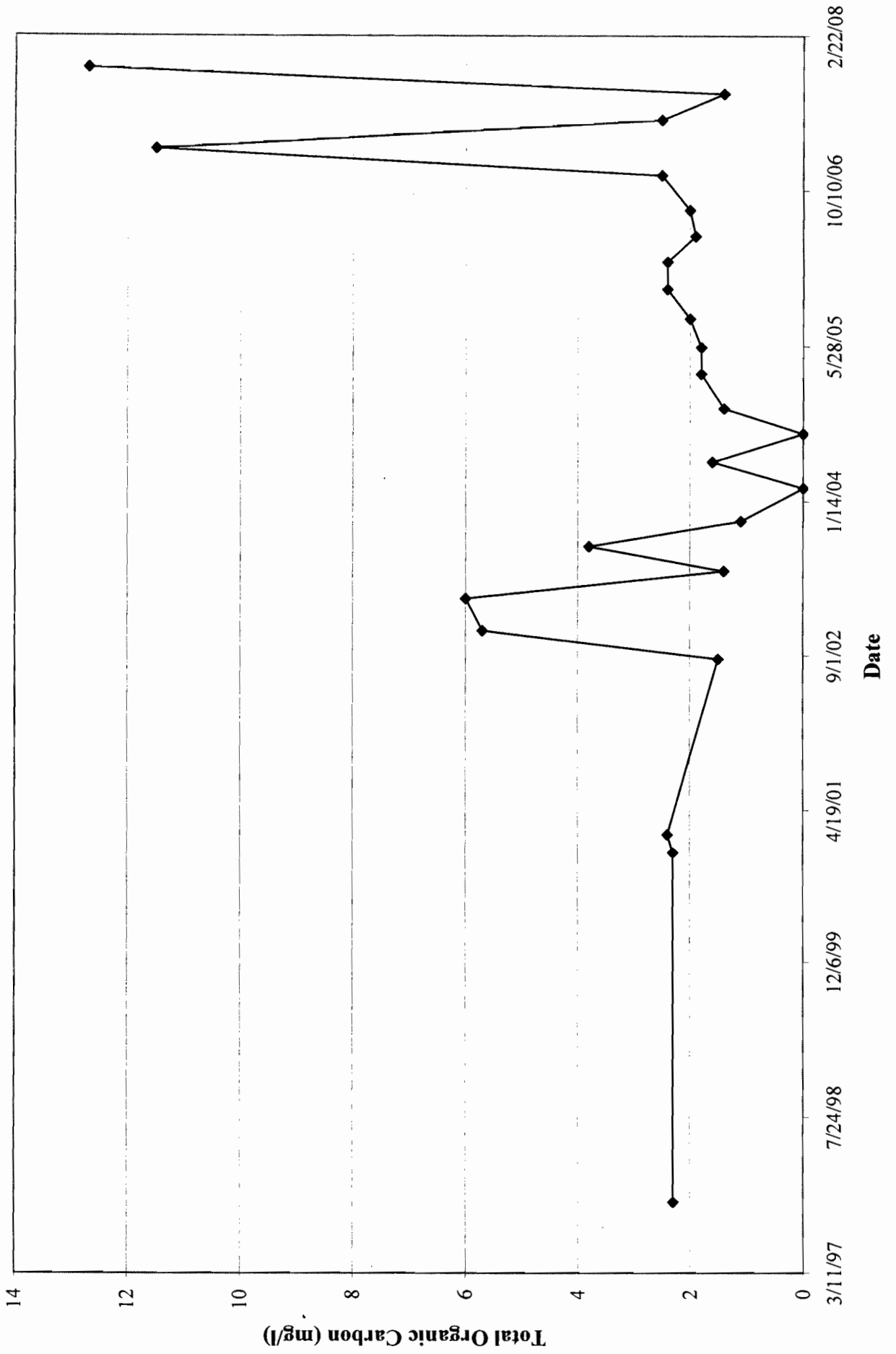
TOTAL PHENOLS IN MW-01D



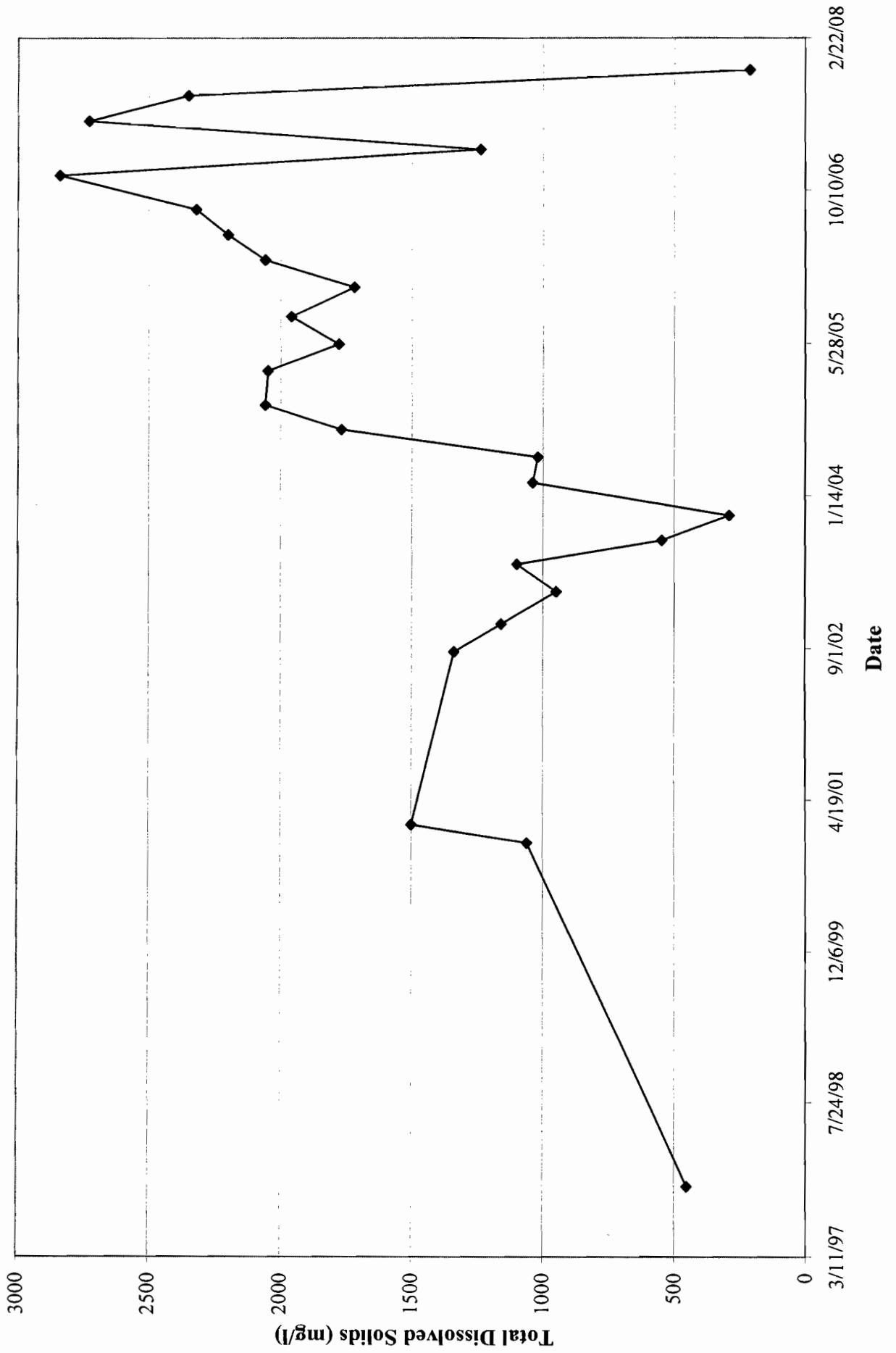
SULFATE IN MW-01D



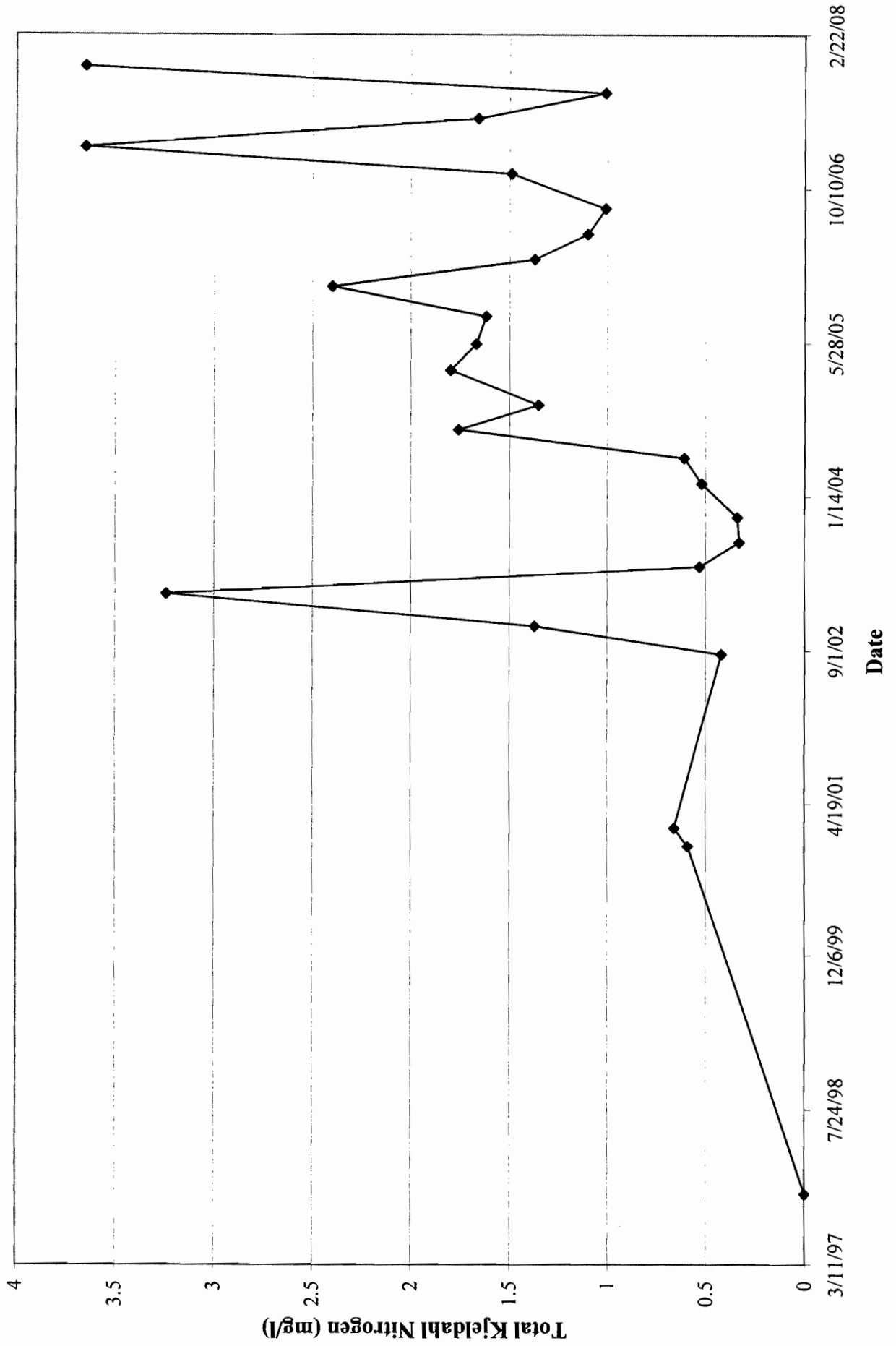
TOTAL ORGANIC CARBON IN MW-01D



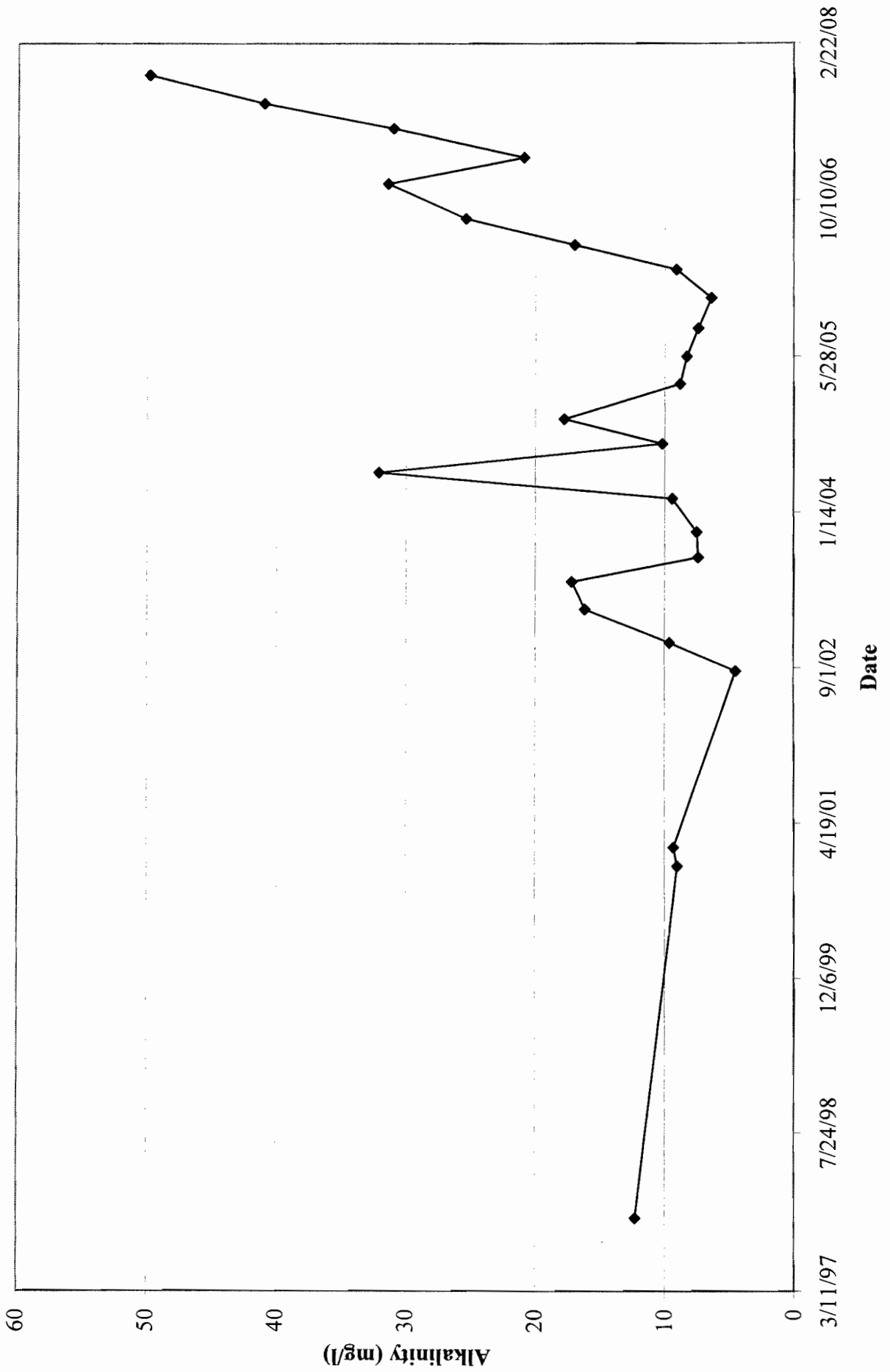
TOTAL DISSOLVED SOLIDS IN MW-01D



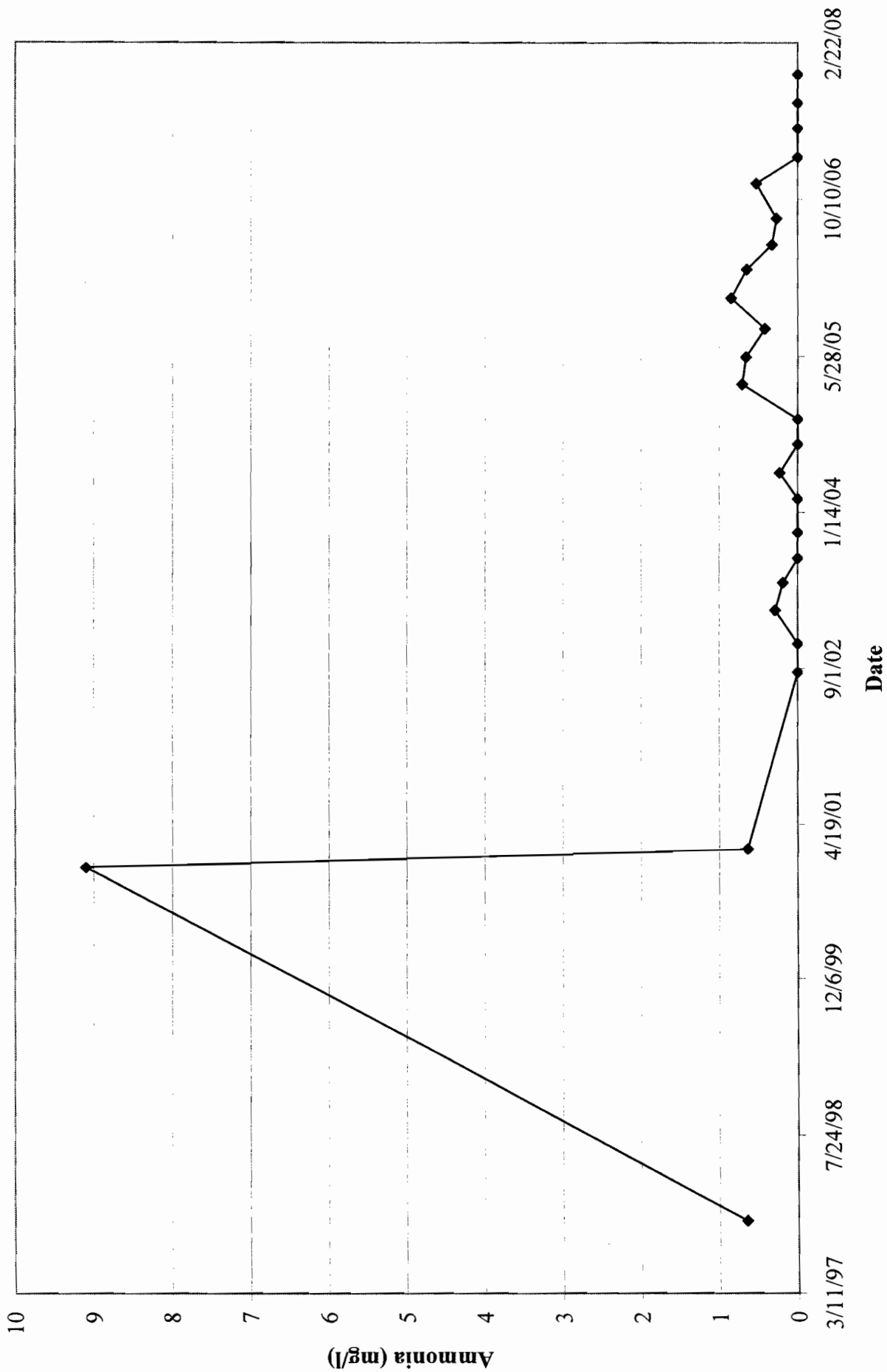
TOTAL KJELDAHL NITROGEN IN MW-01D



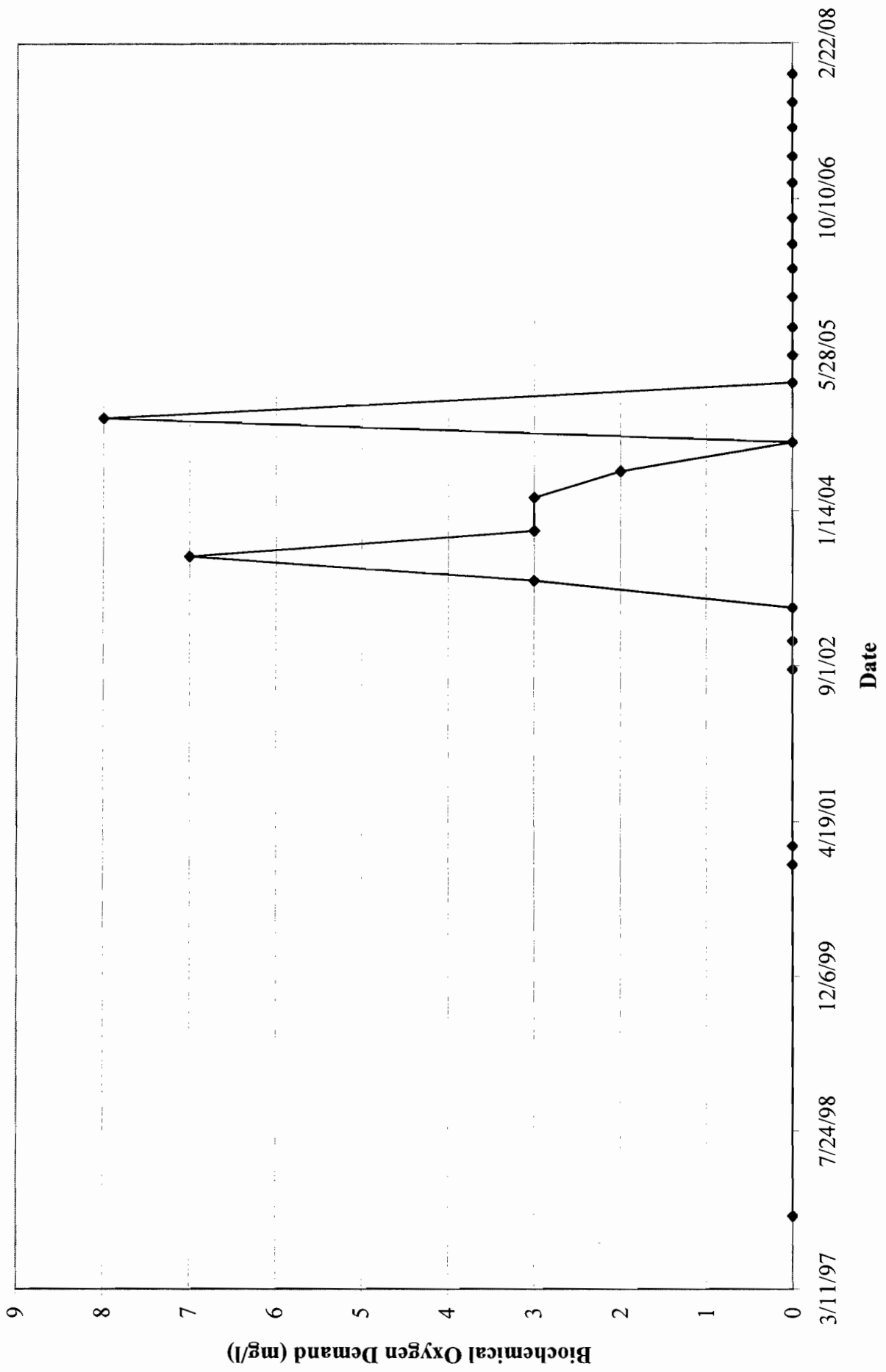
ALKALINITY IN MW-02I



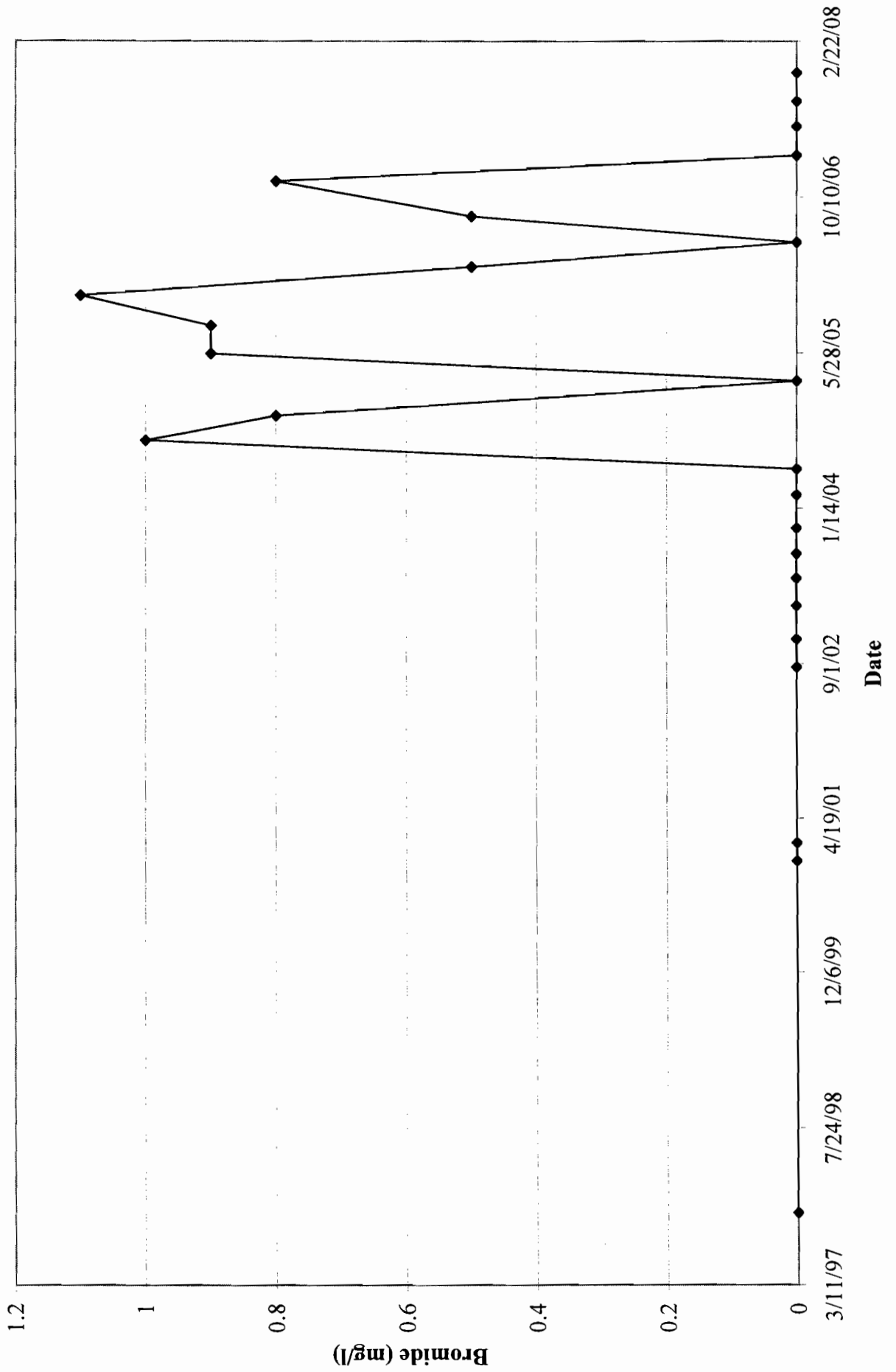
AMMONIA IN MW-02I



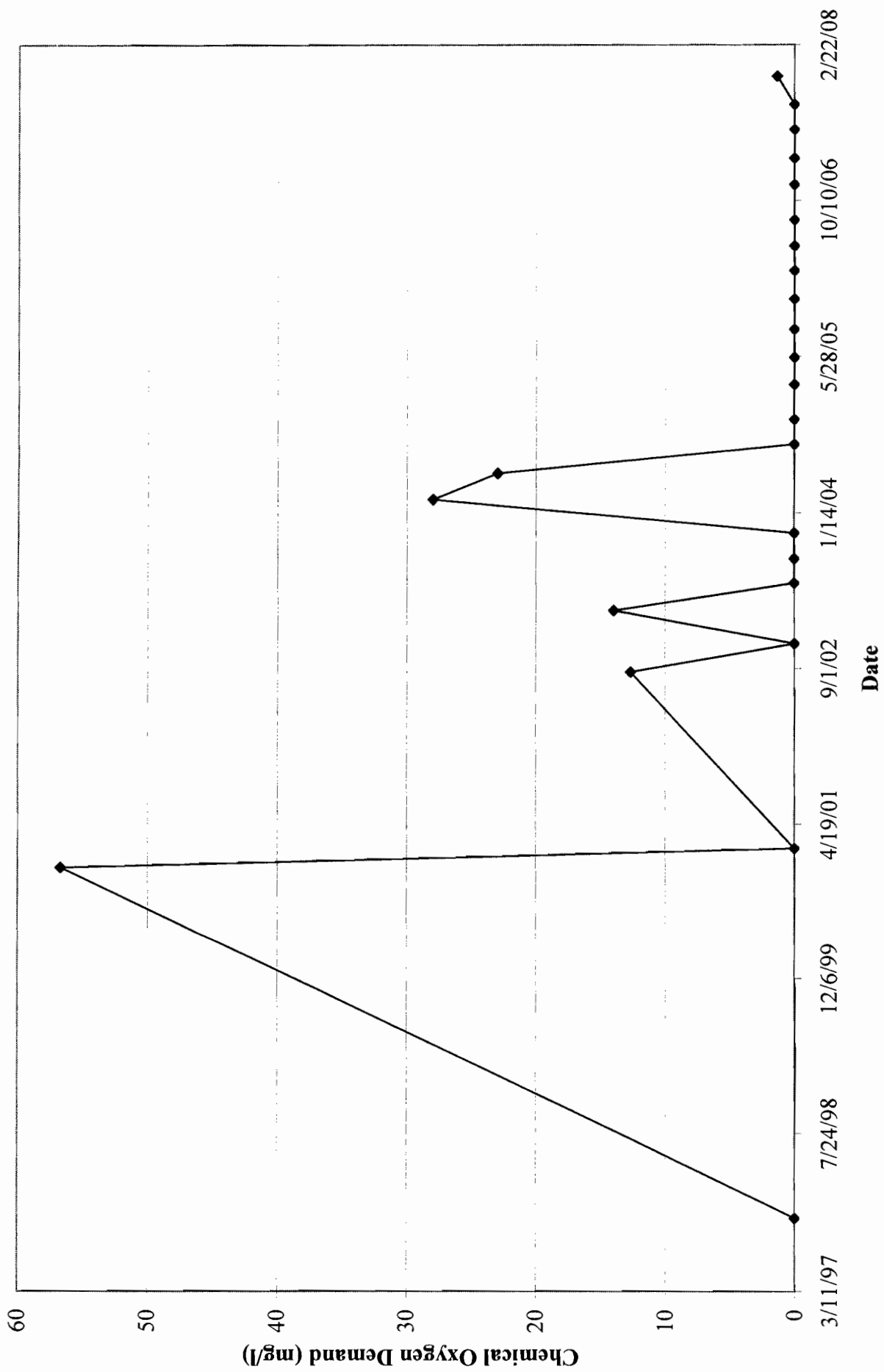
BIOCHEMICAL OXYGEN DEMAND IN MW-02I



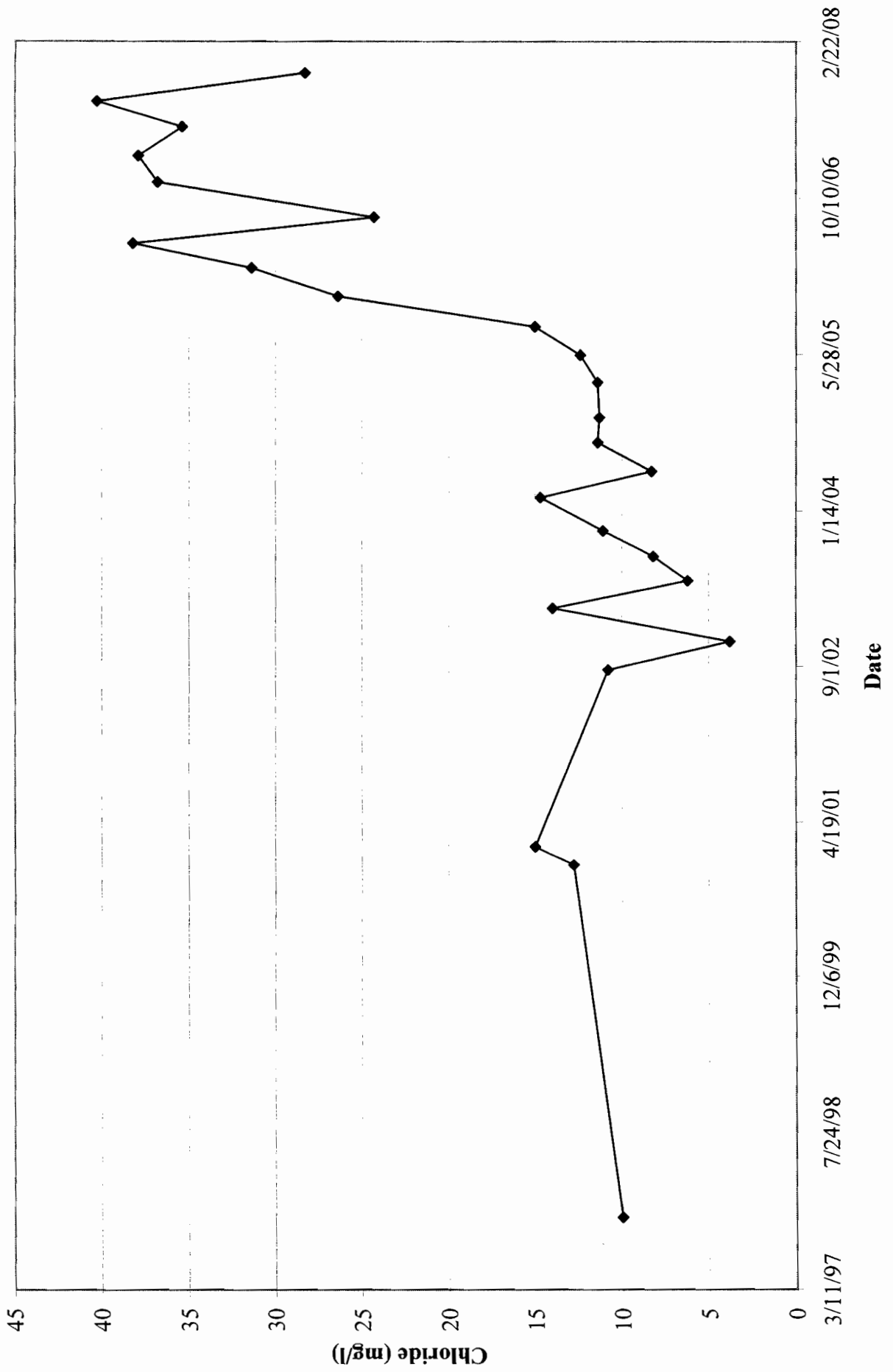
BROMIDE IN MW-021



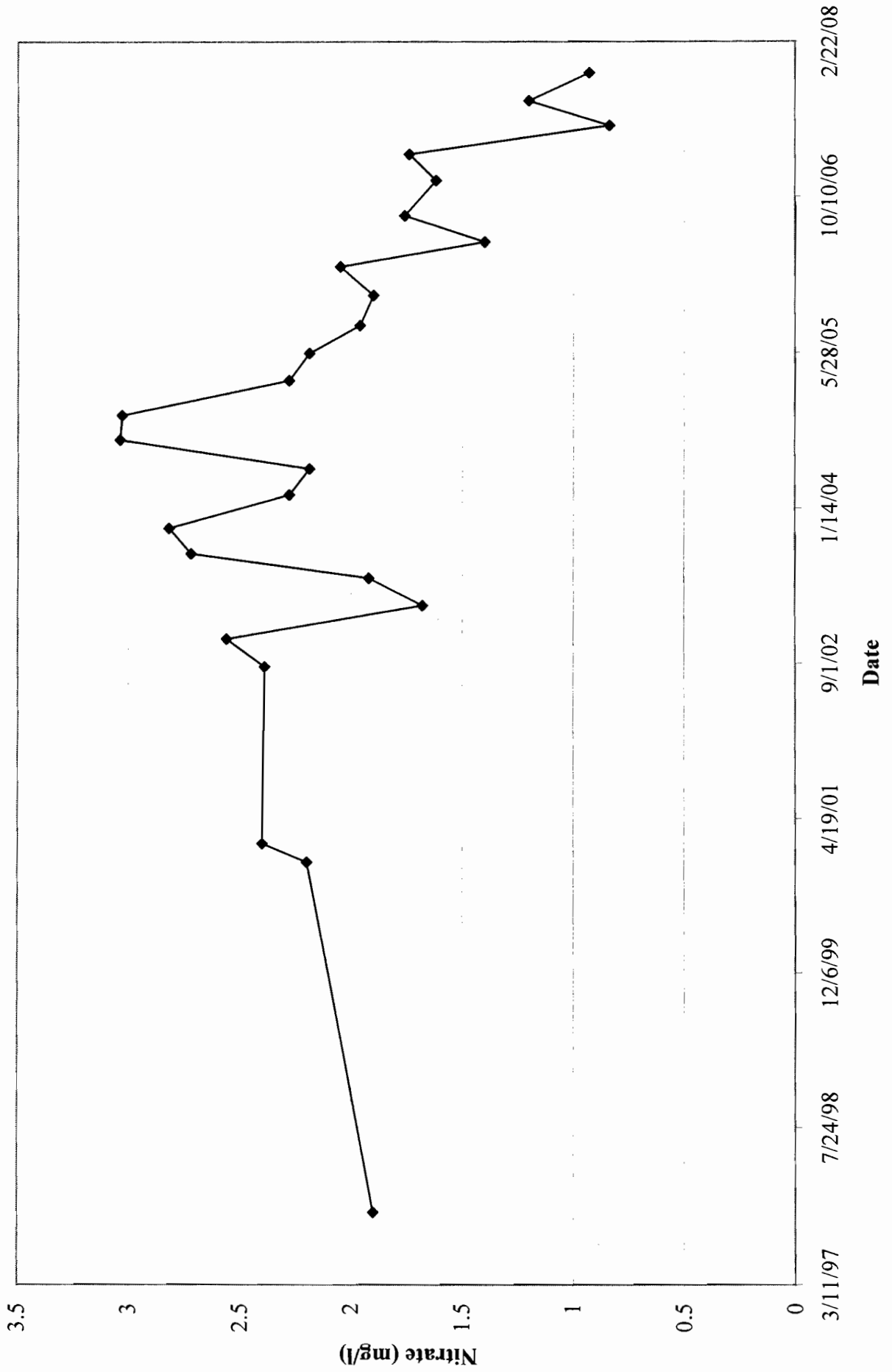
CHEMICAL OXYGEN DEMAND IN MW-02I



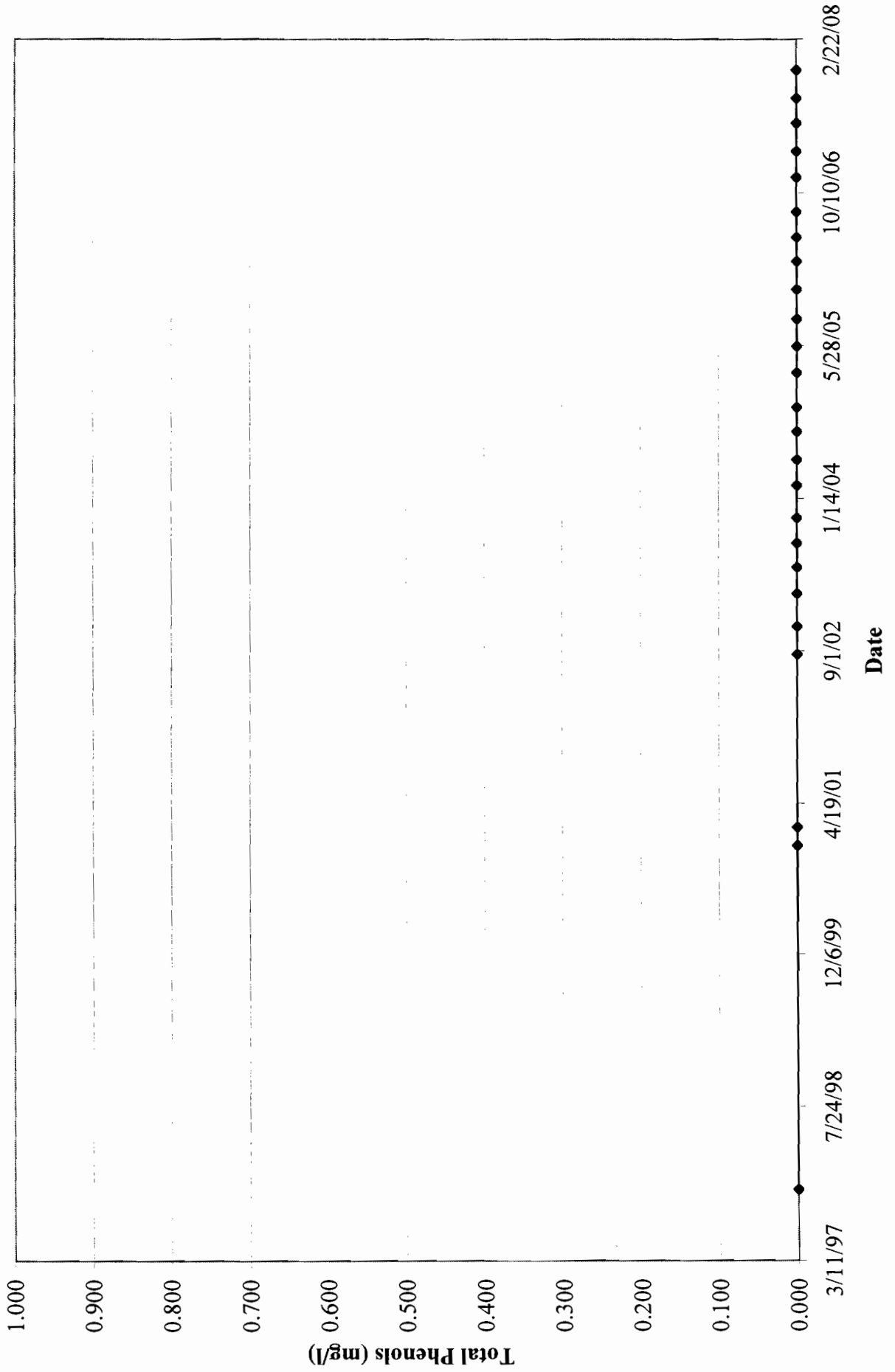
CHLORIDE IN MW-02I



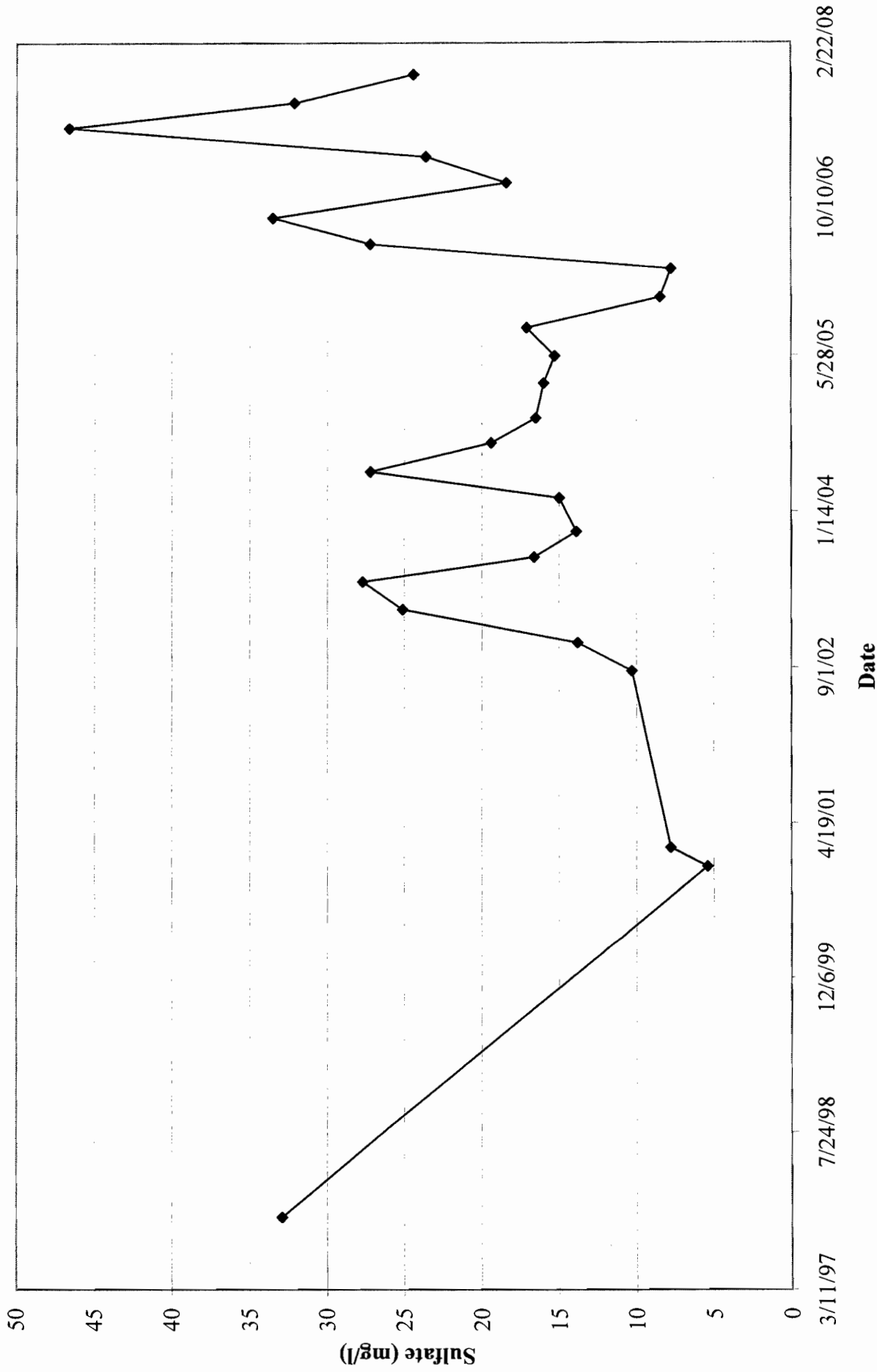
NITRATE IN MW-02I



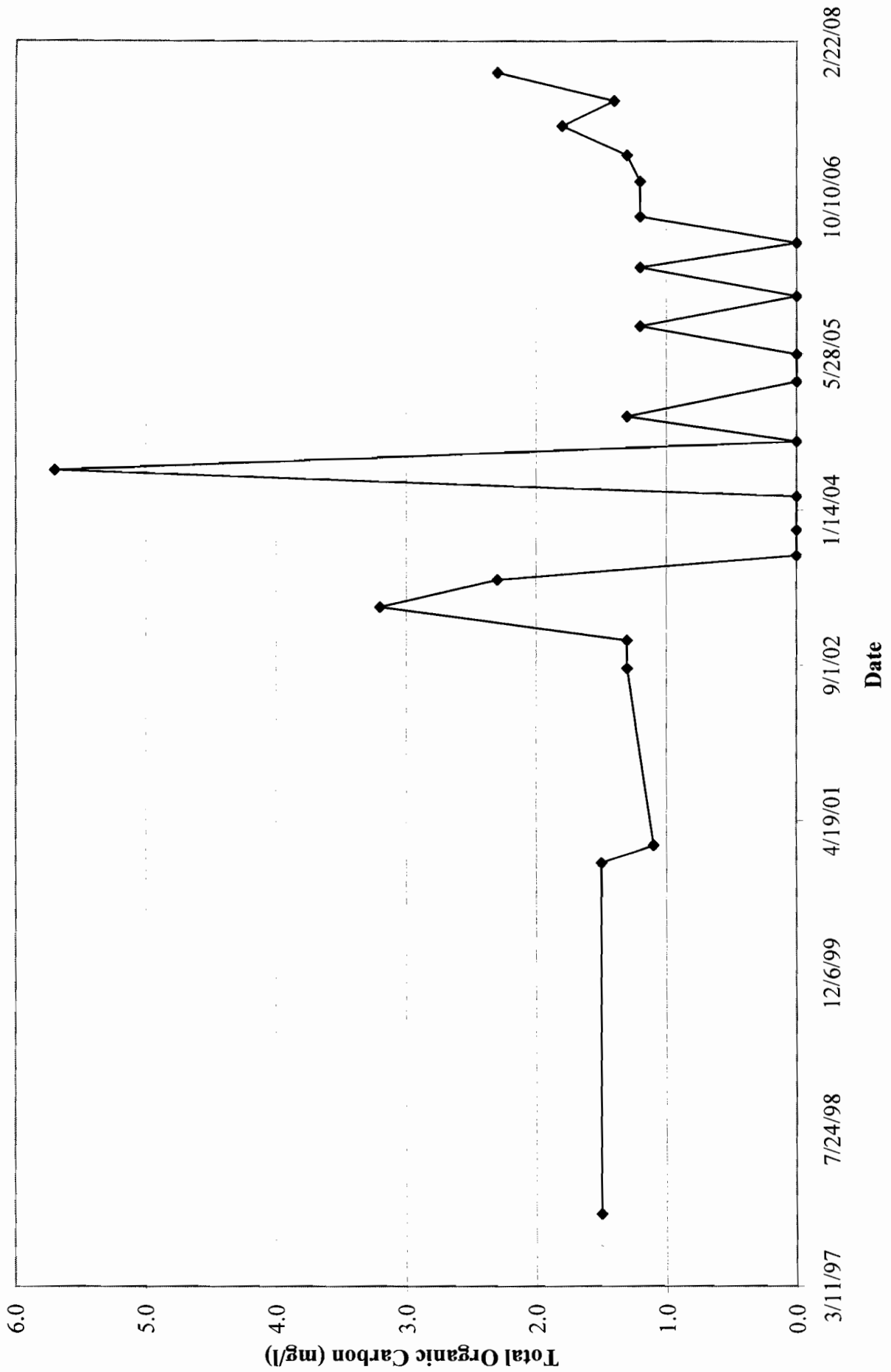
TOTAL PHENOLS IN MW-021



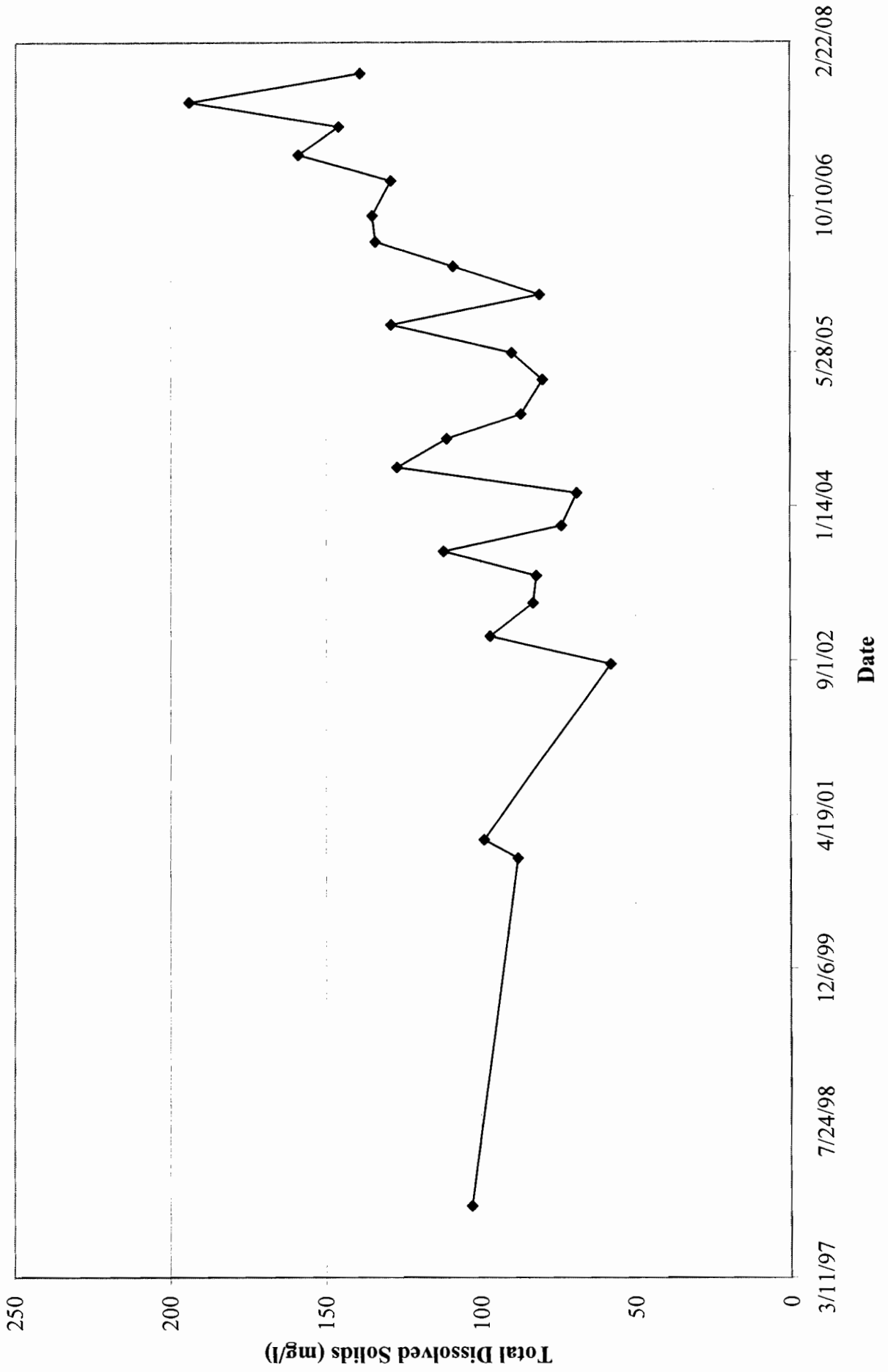
SULFATE IN MW-02I



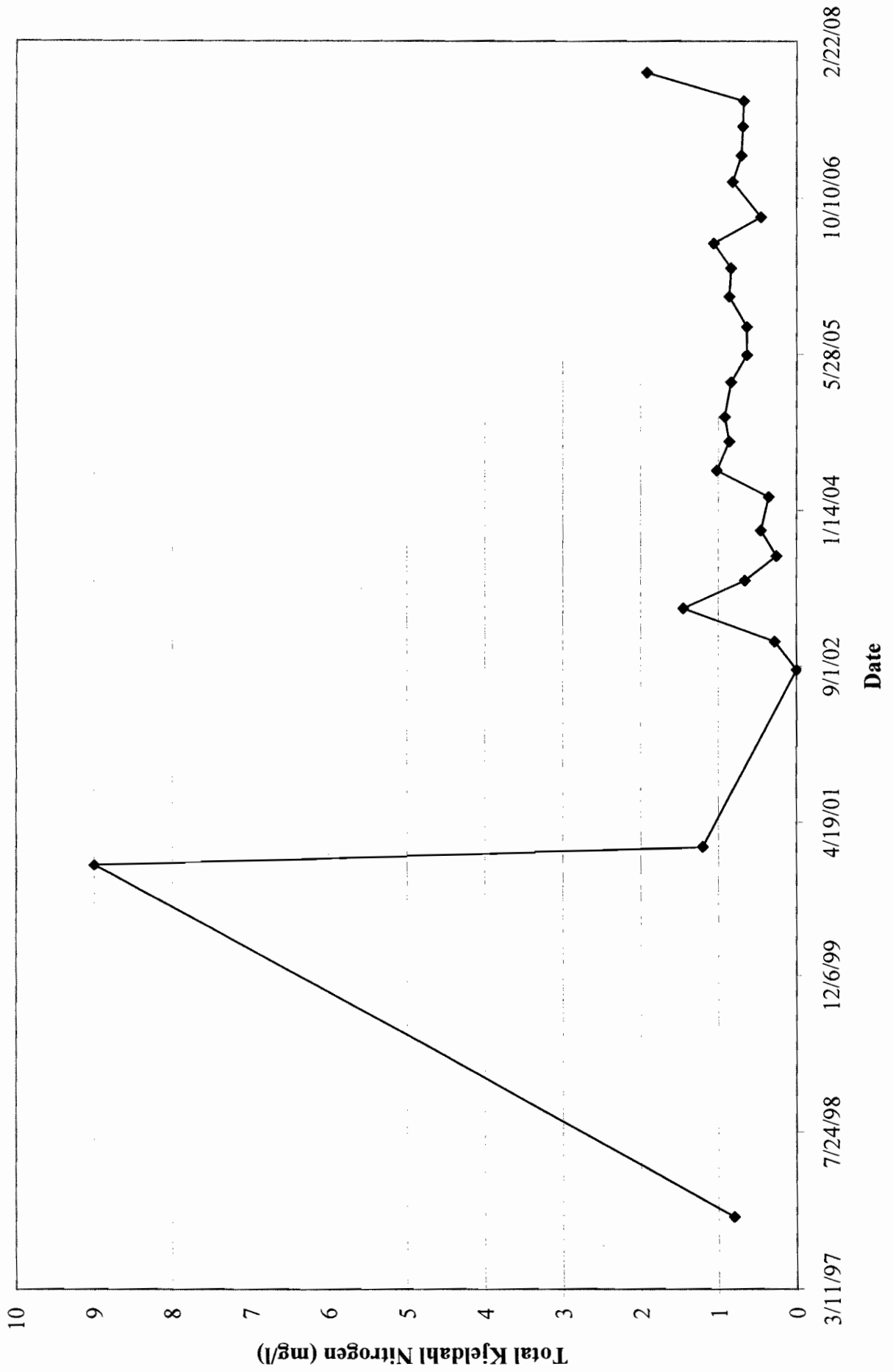
TOTAL ORGANIC CARBON IN MW-02I



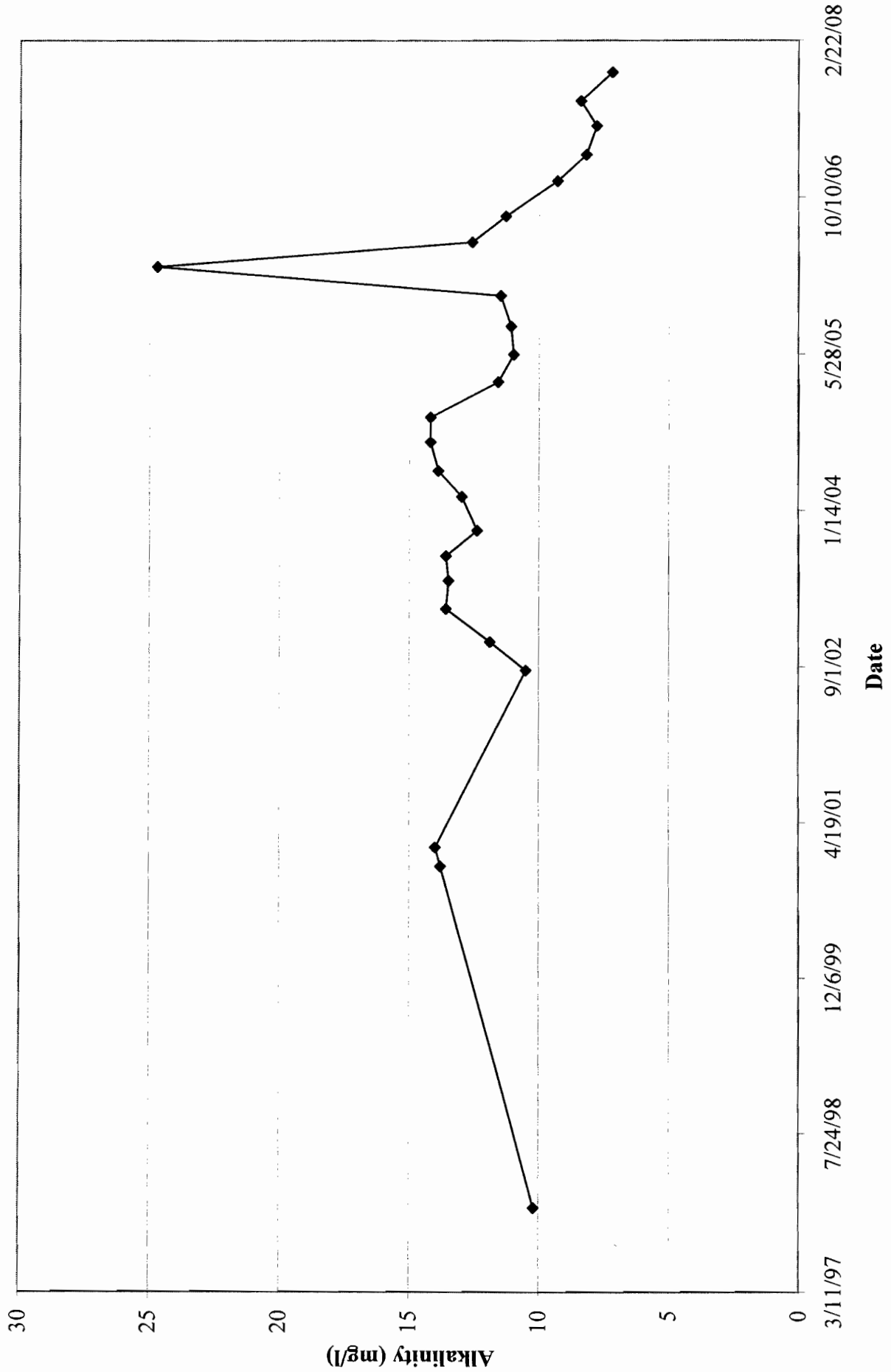
TOTAL DISSOLVED SOLIDS IN MW-02I



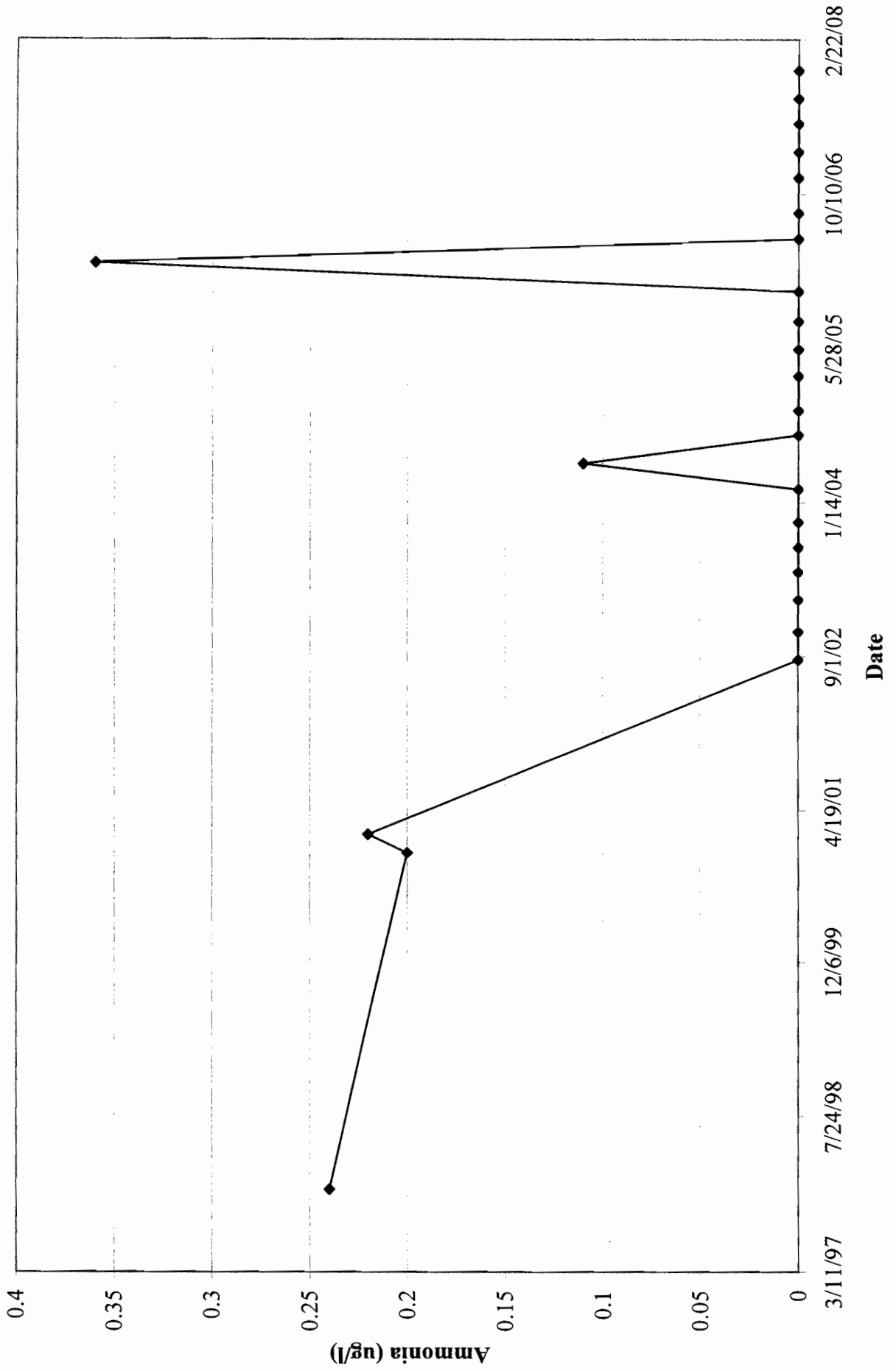
TOTAL KJELDAHL NITROGEN IN MW-021



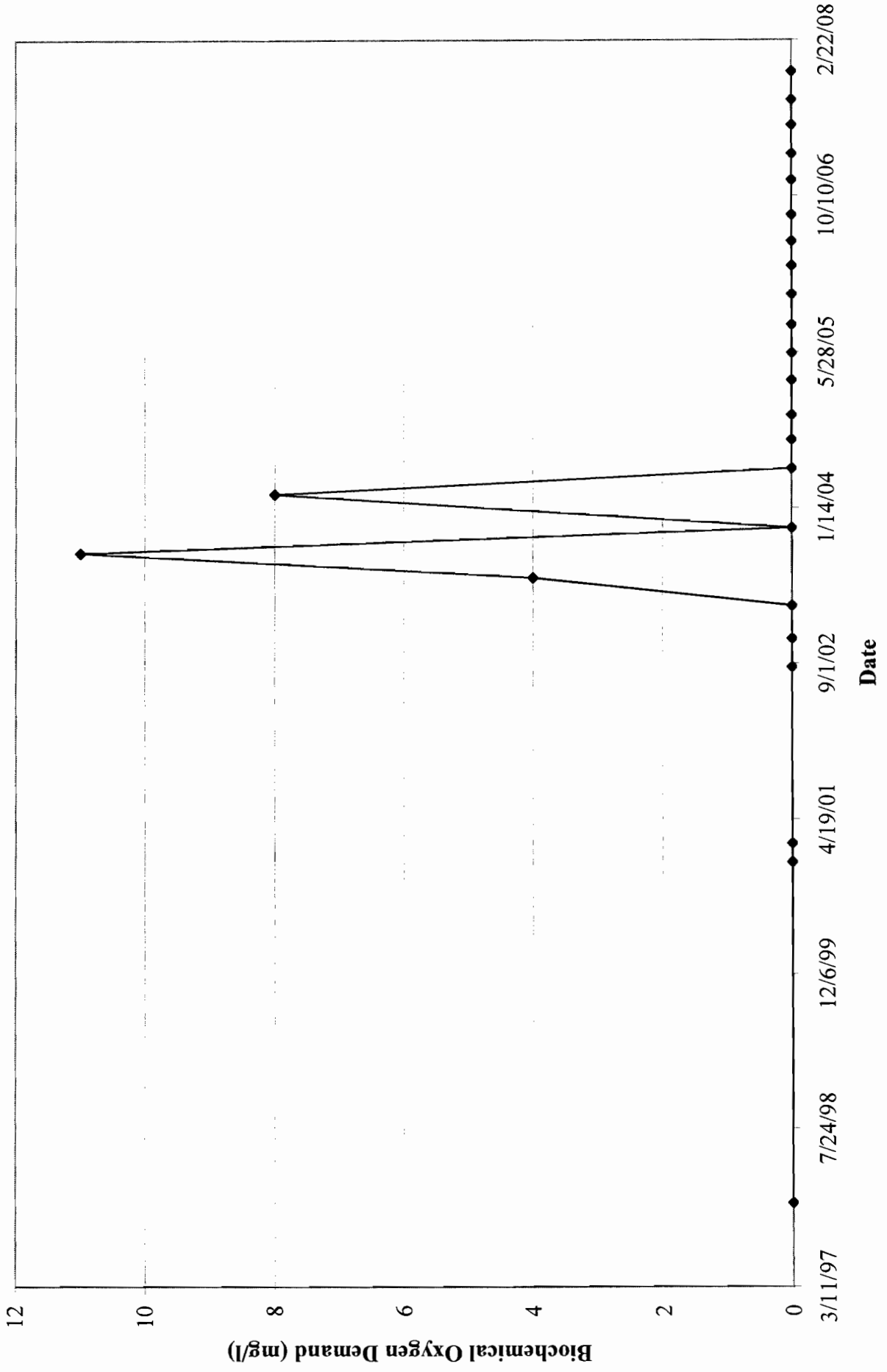
ALKALINITY IN MW-02D



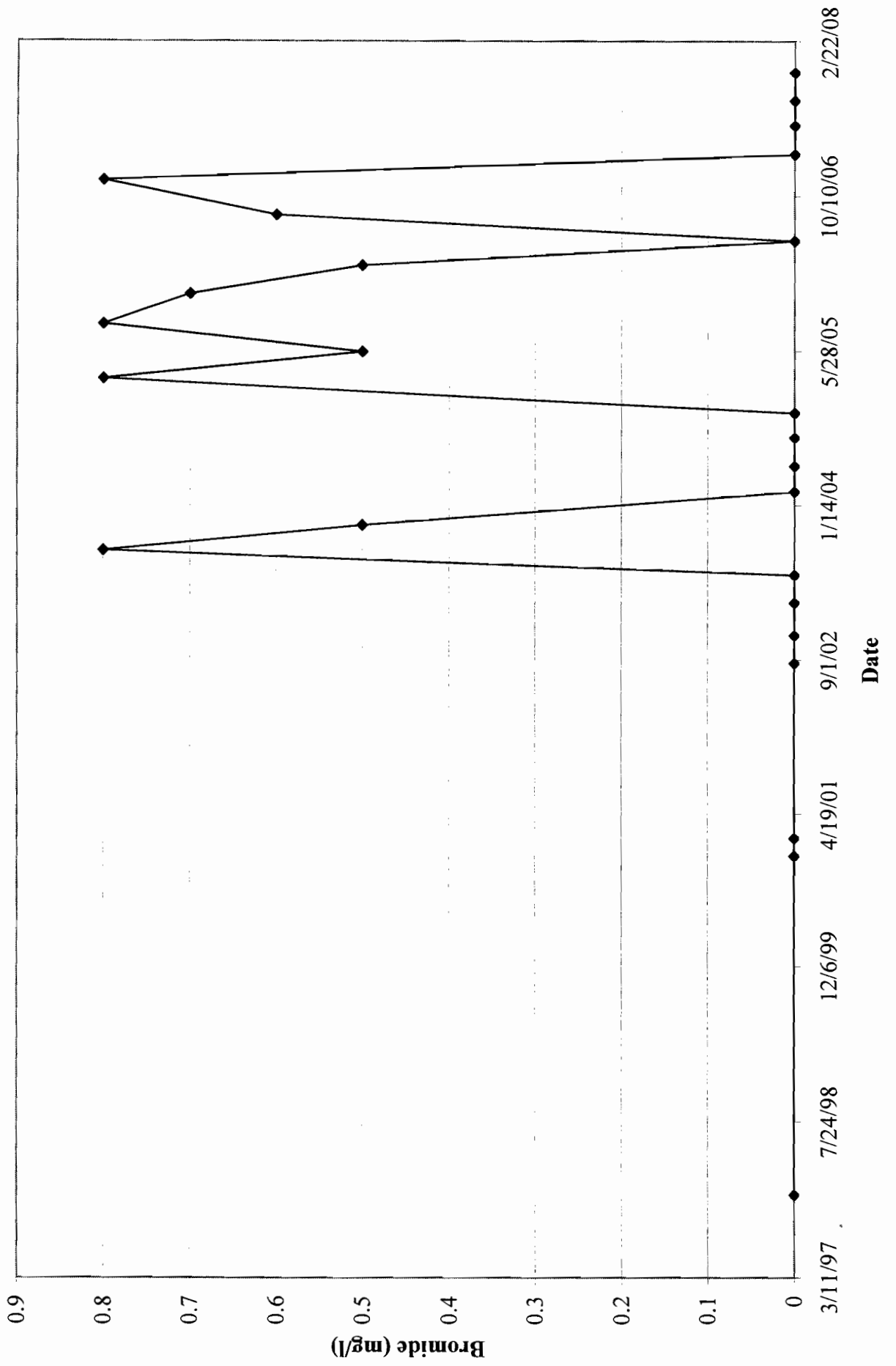
AMMONIA IN MW-02D



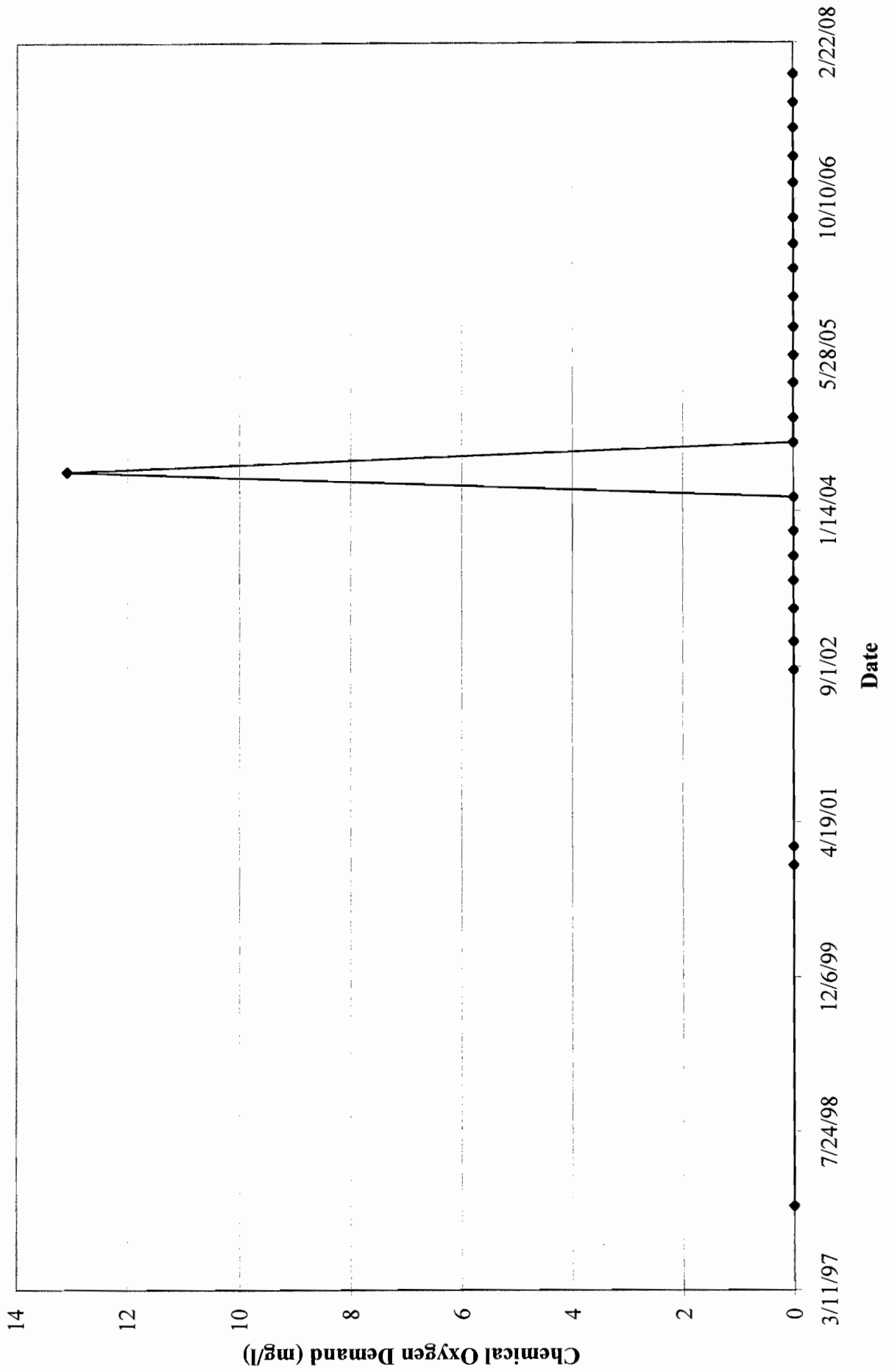
BIOCHEMICAL OXYGEN DEMAND IN MW-02D



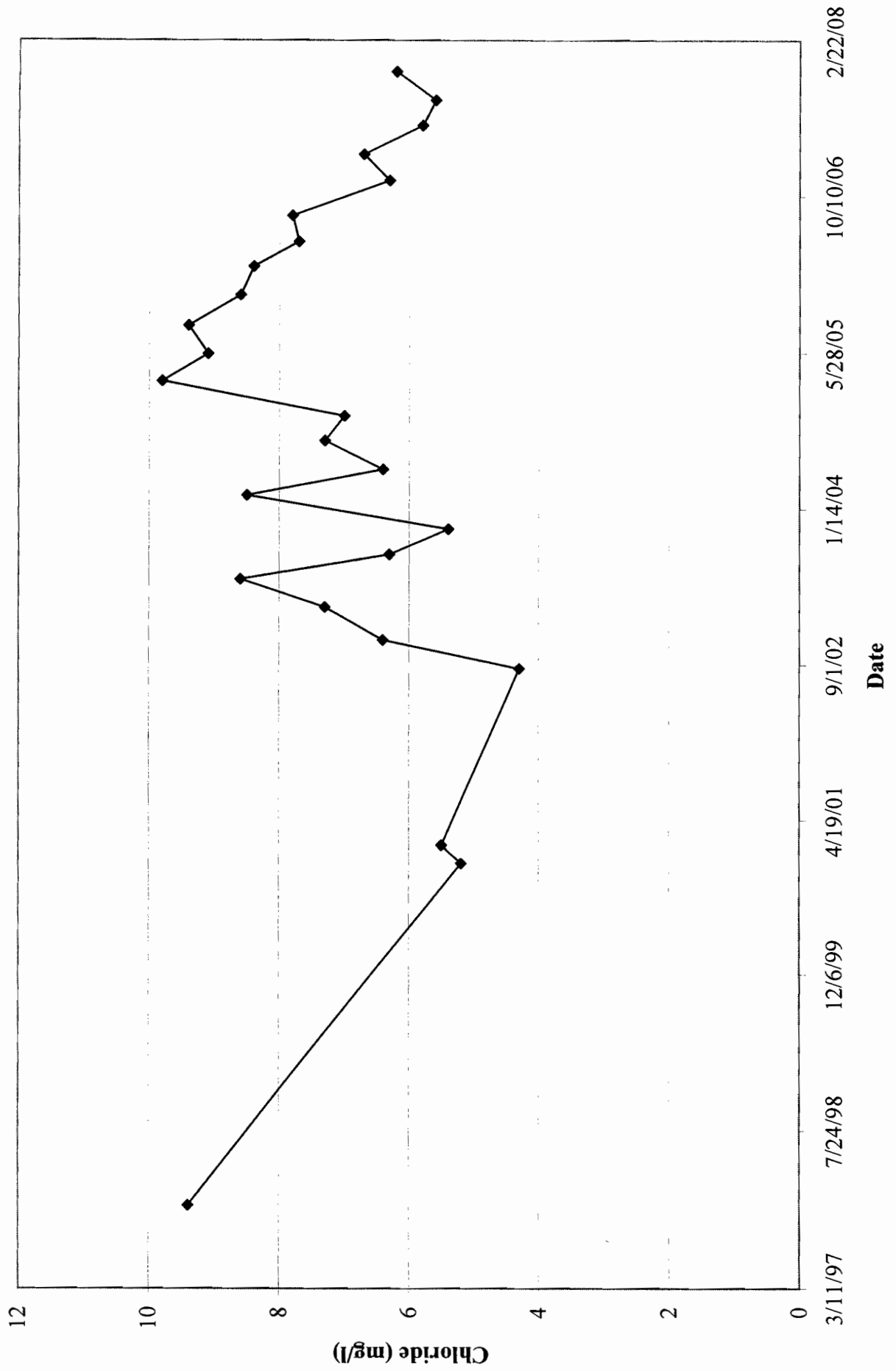
BROMIDE IN MW-02D



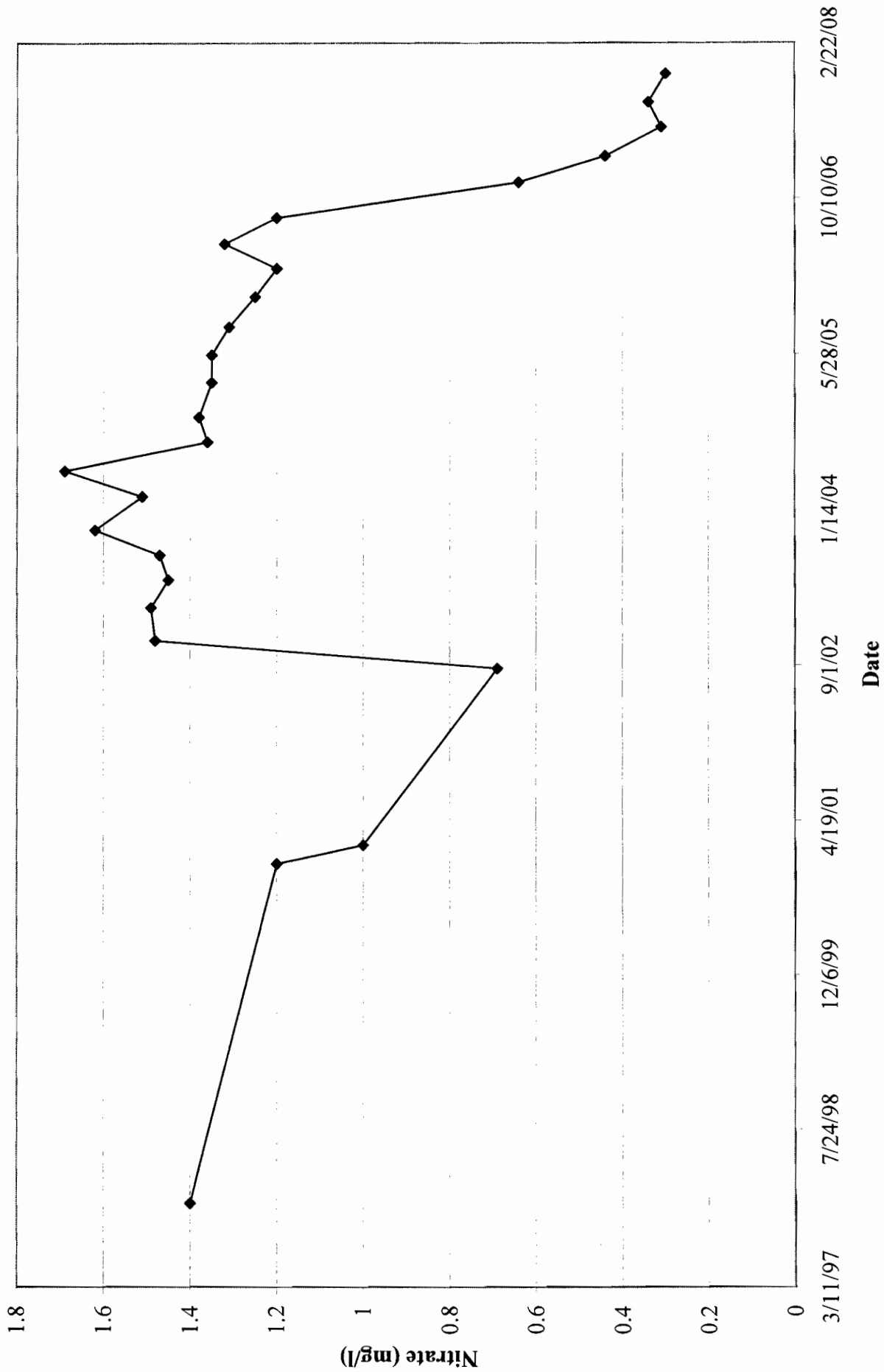
CHEMICAL OXYGEN DEMAND IN MW-02D



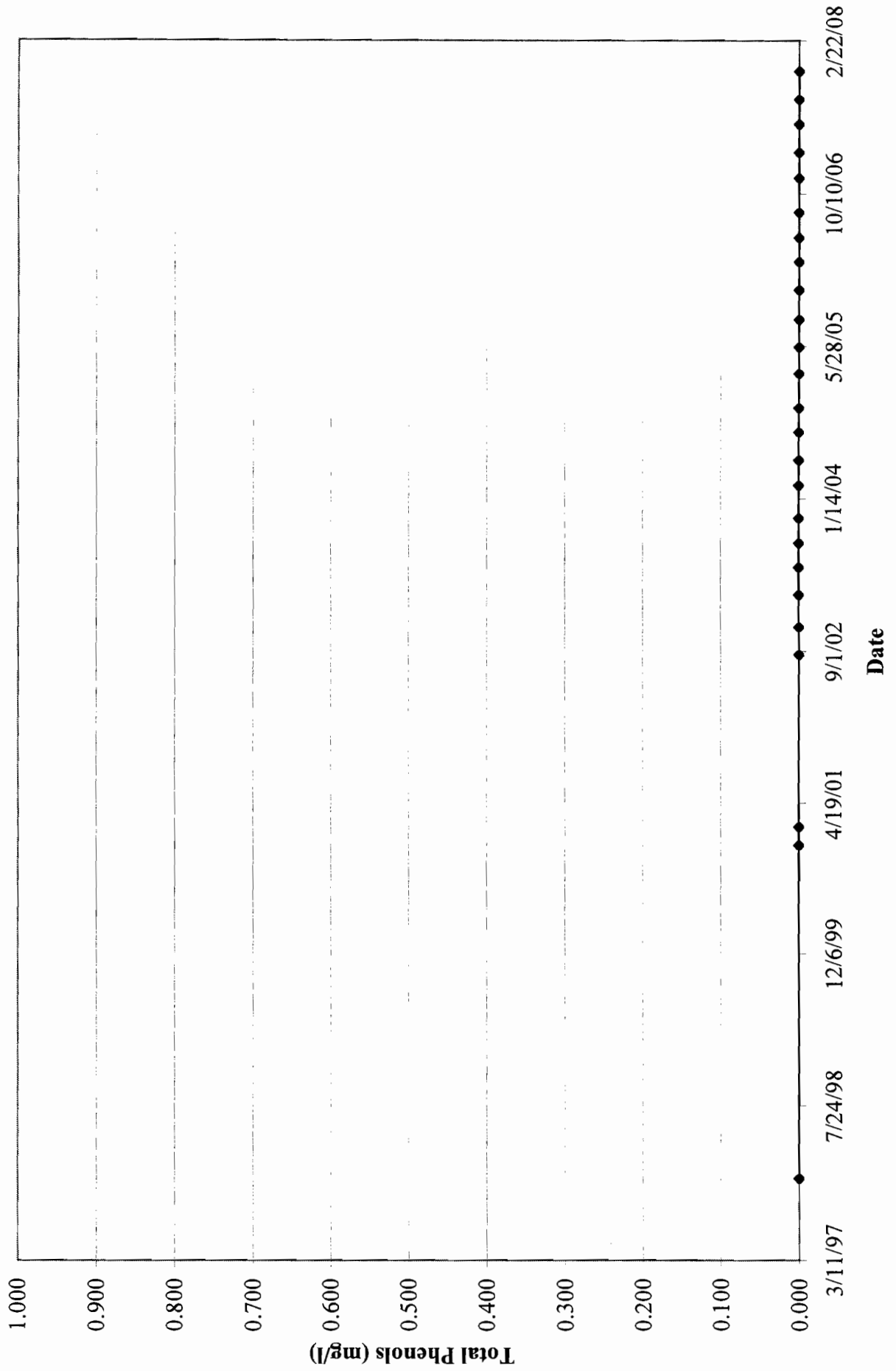
CHLORIDE IN MW-02D



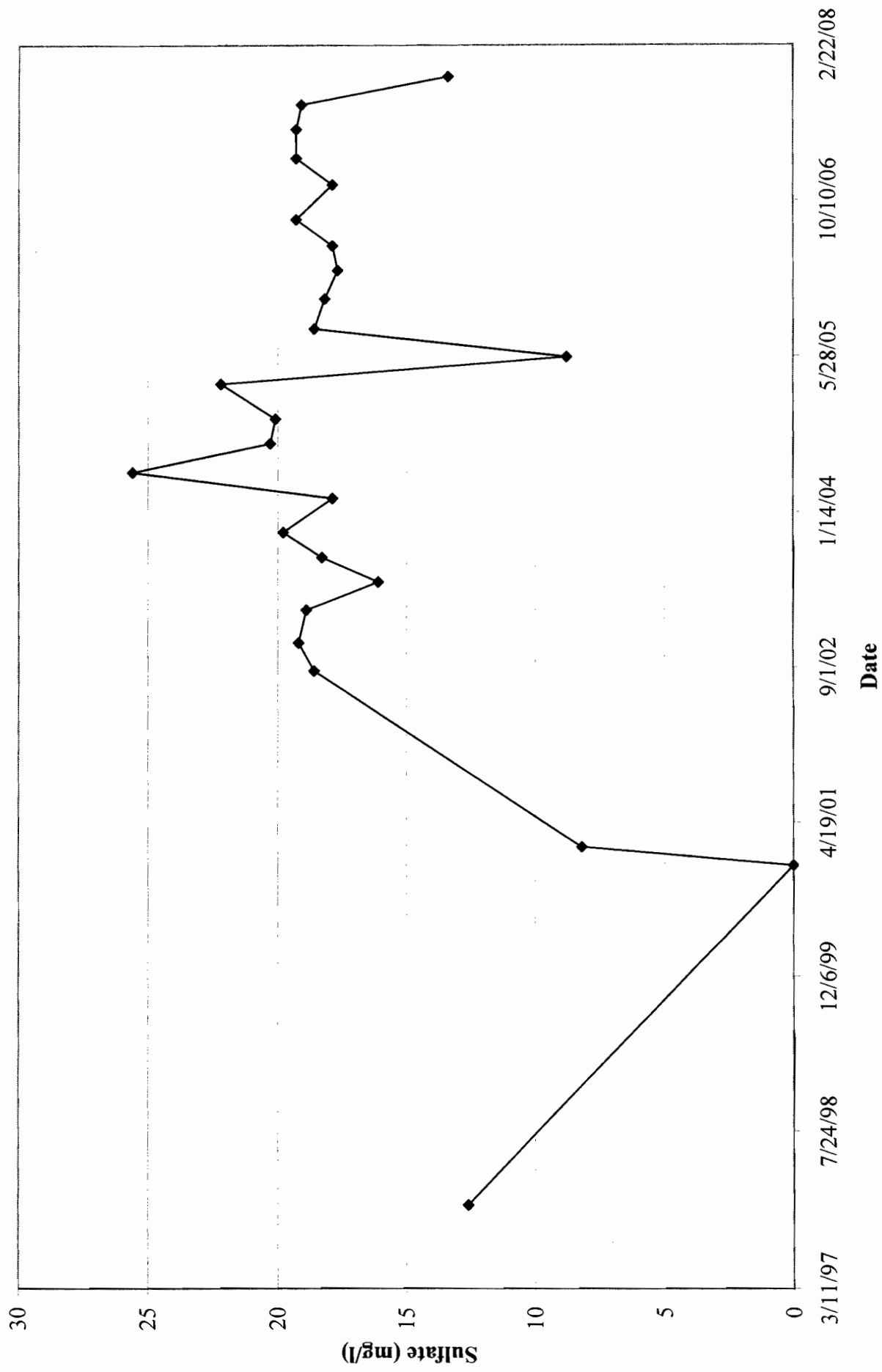
NITRATE IN MW-02D



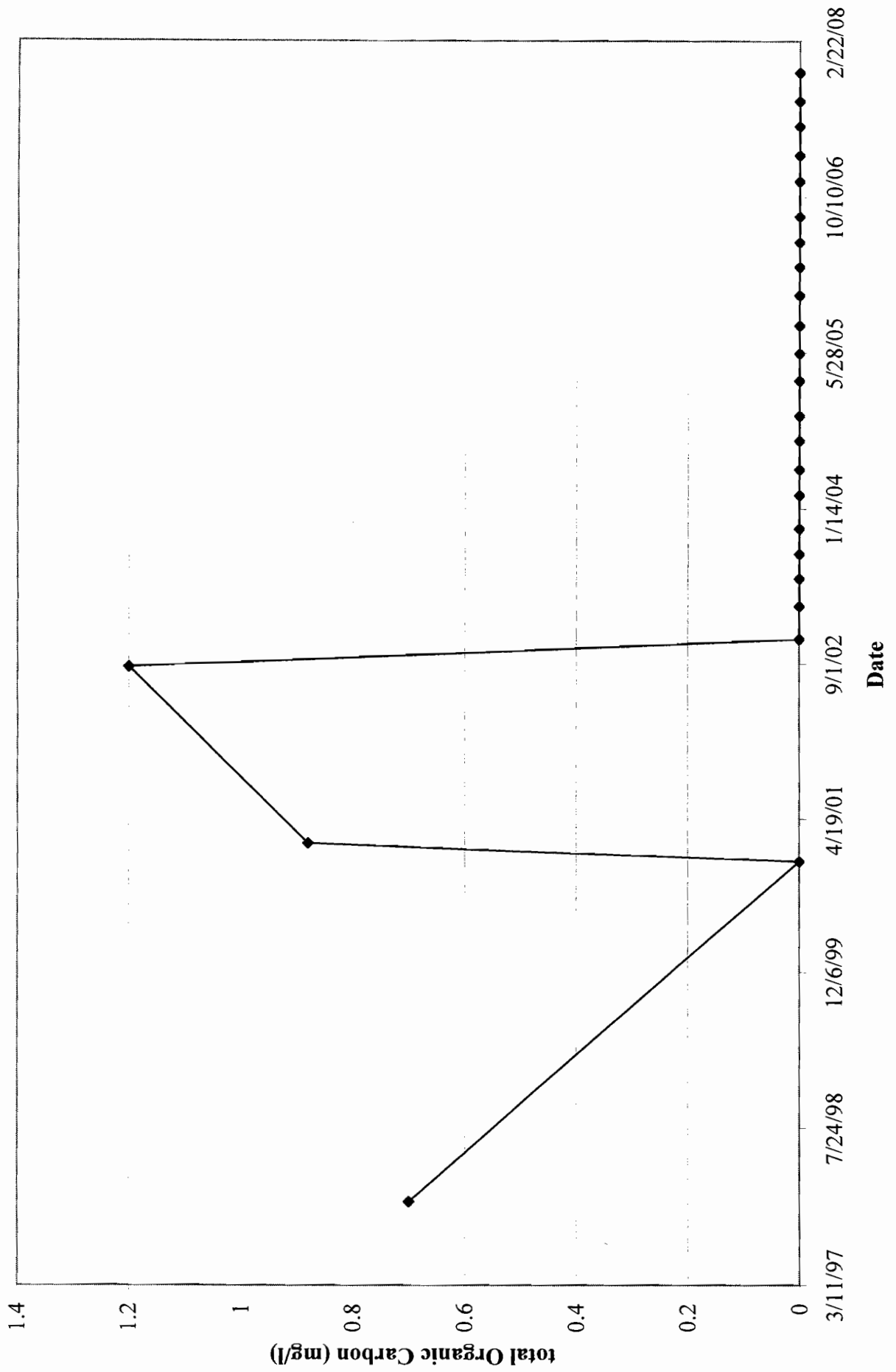
TOTAL PHENOLS IN MW-02D



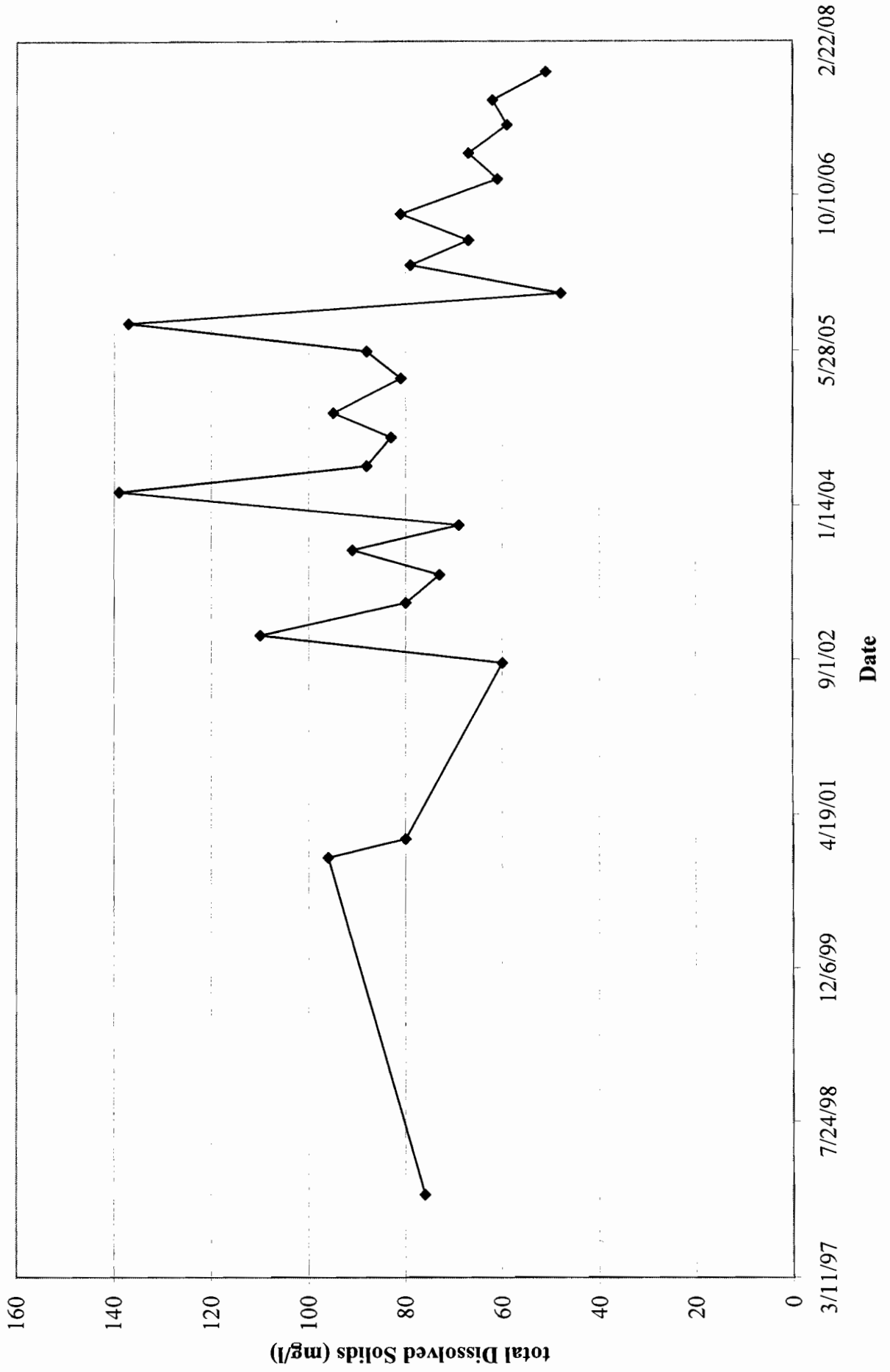
SULFATE IN MW-02D



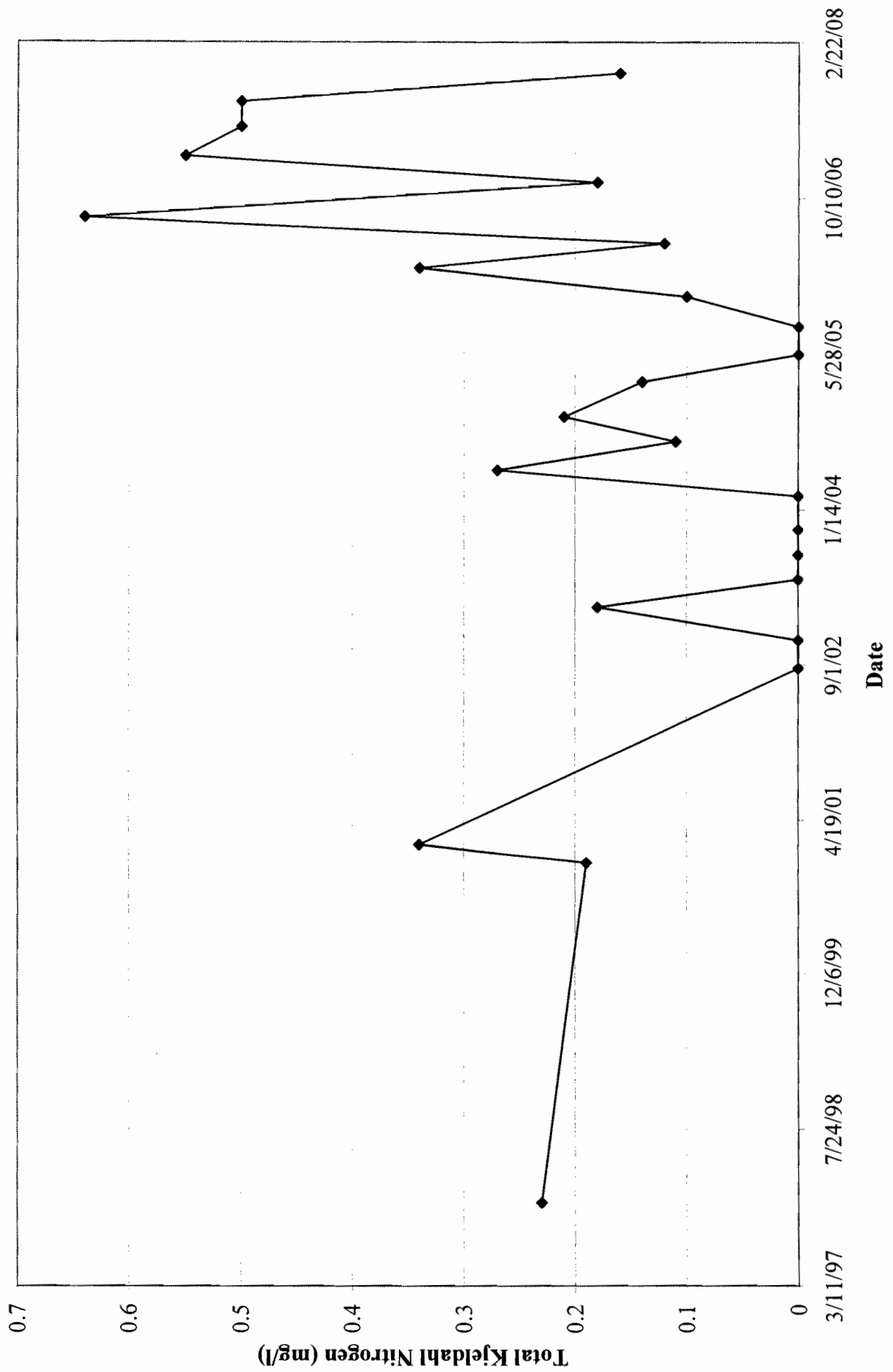
TOTAL ORGANIC CARBON IN MW-02D



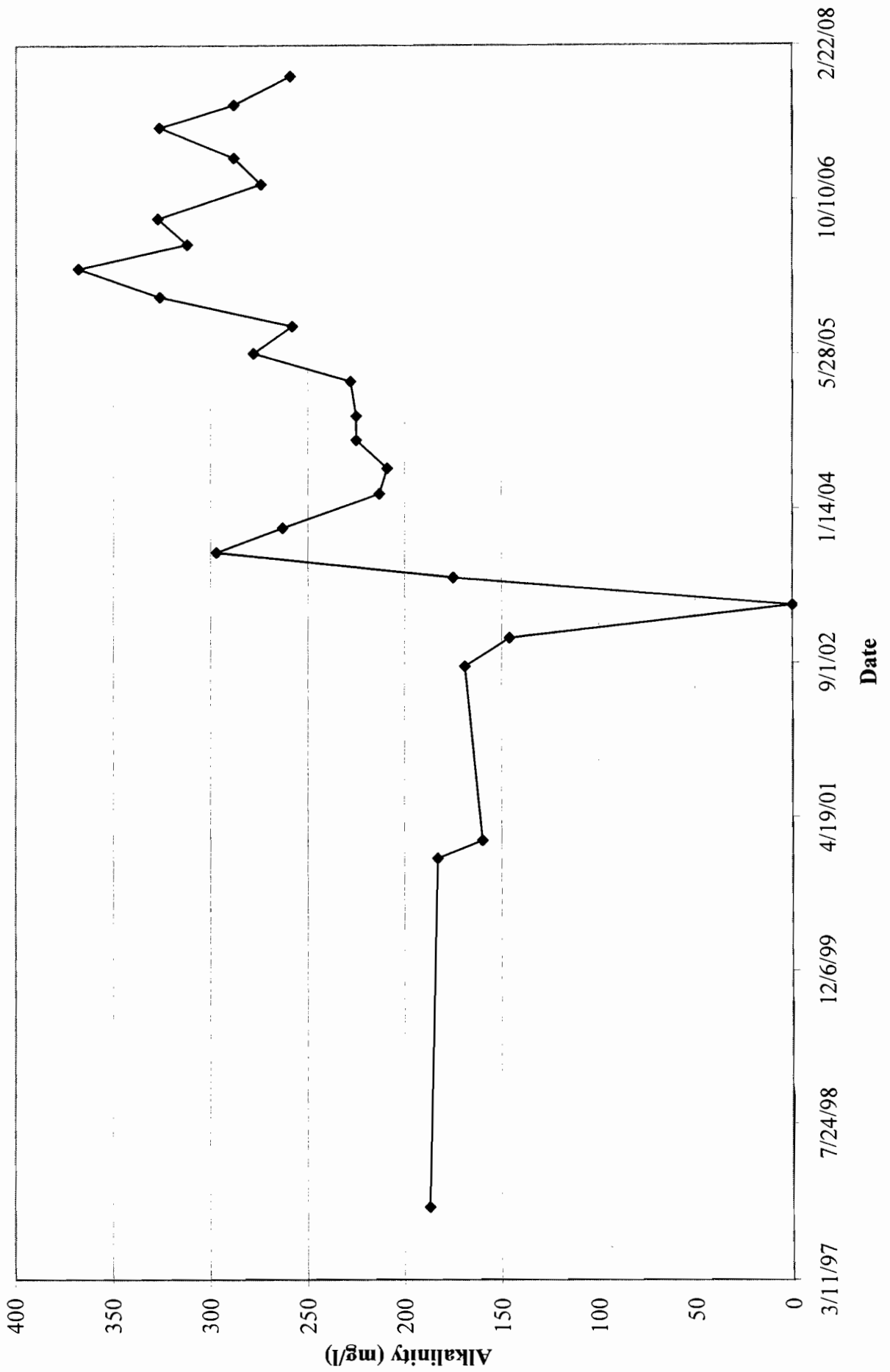
TOTAL DISSOLVED SOLIDS IN MW-02D



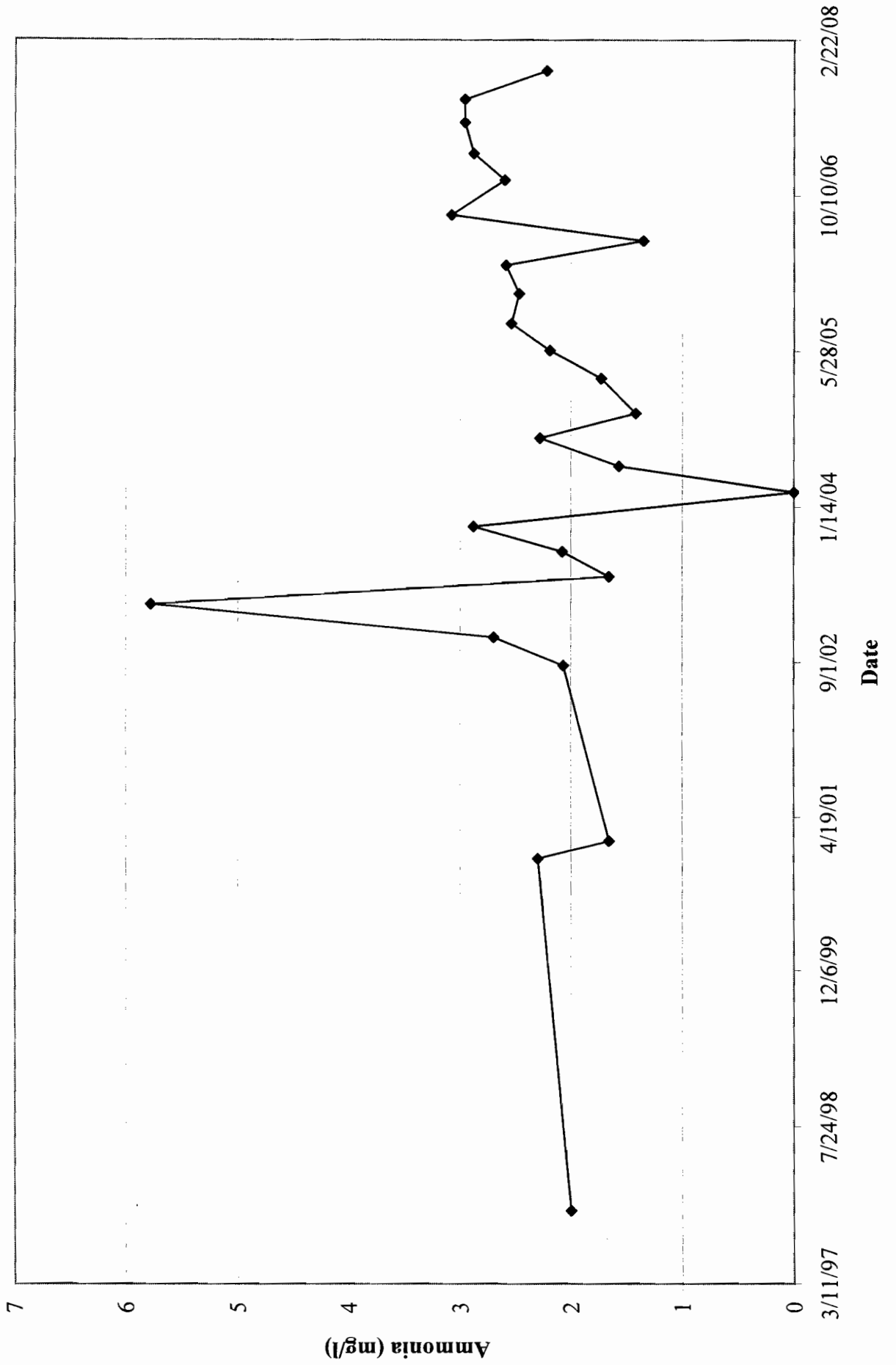
TOTAL KJELDAHL NITROGEN IN MW-02D



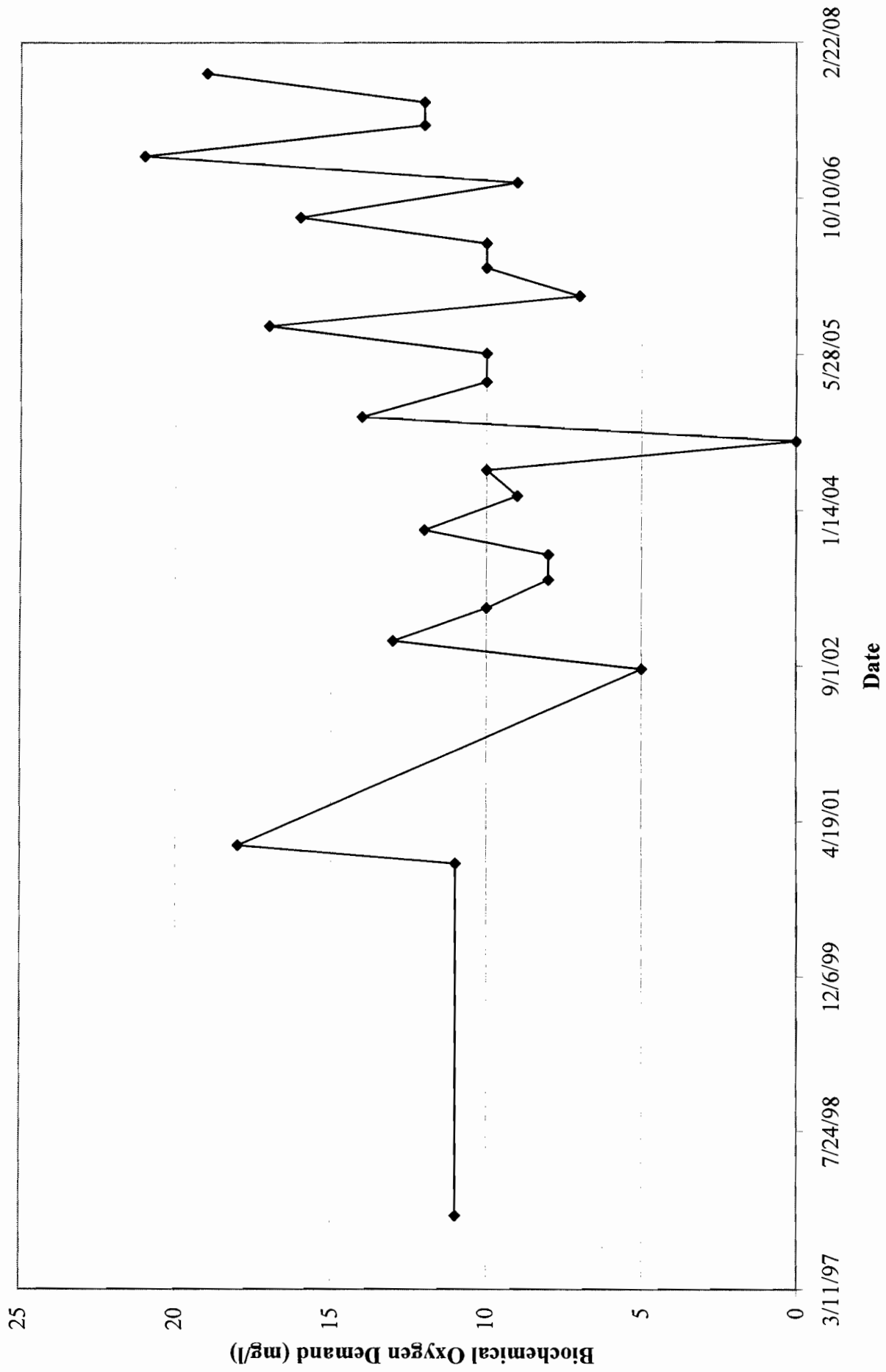
ALKALINITY IN MW-03S



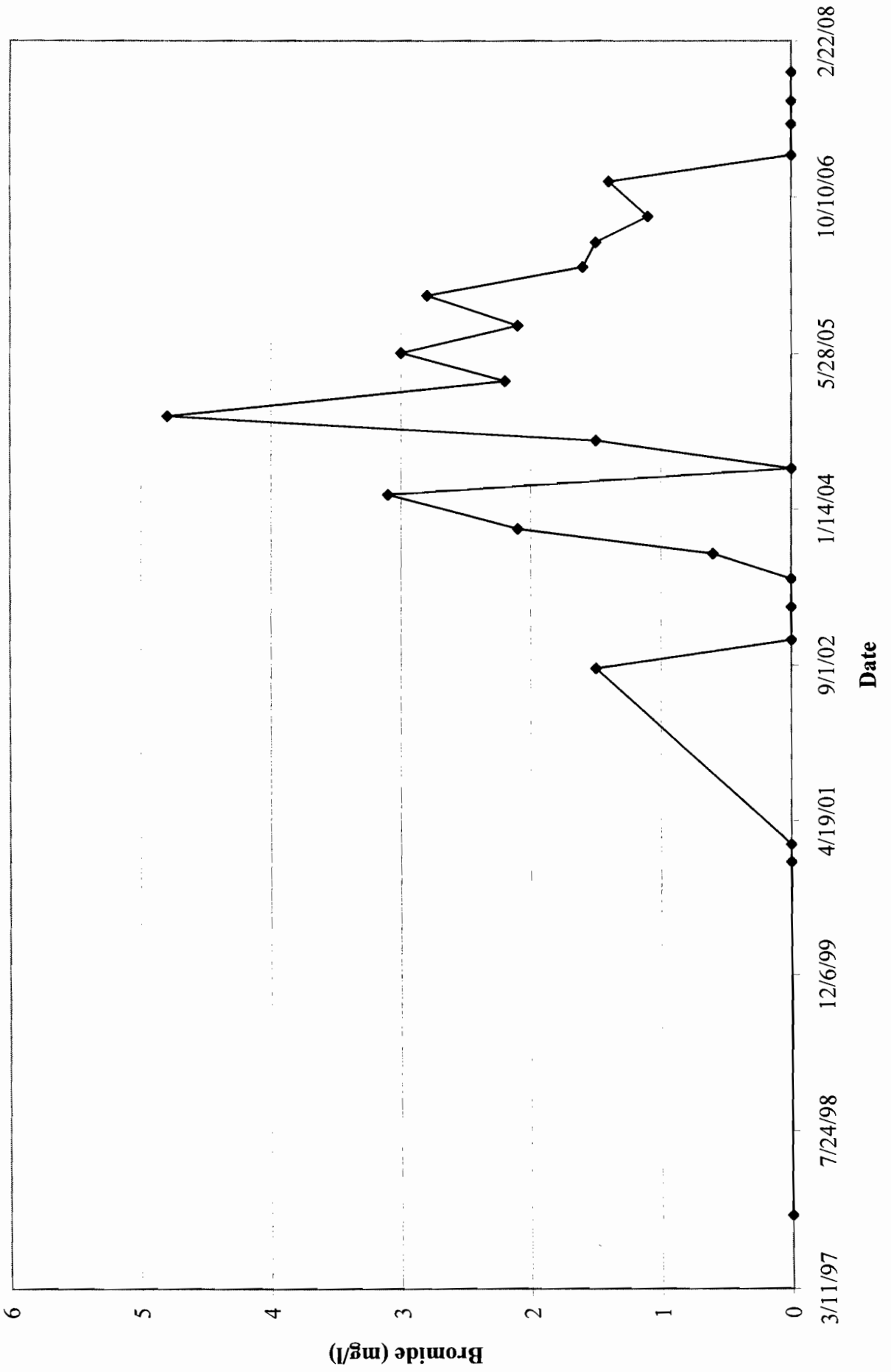
AMMONIA IN MW-03S



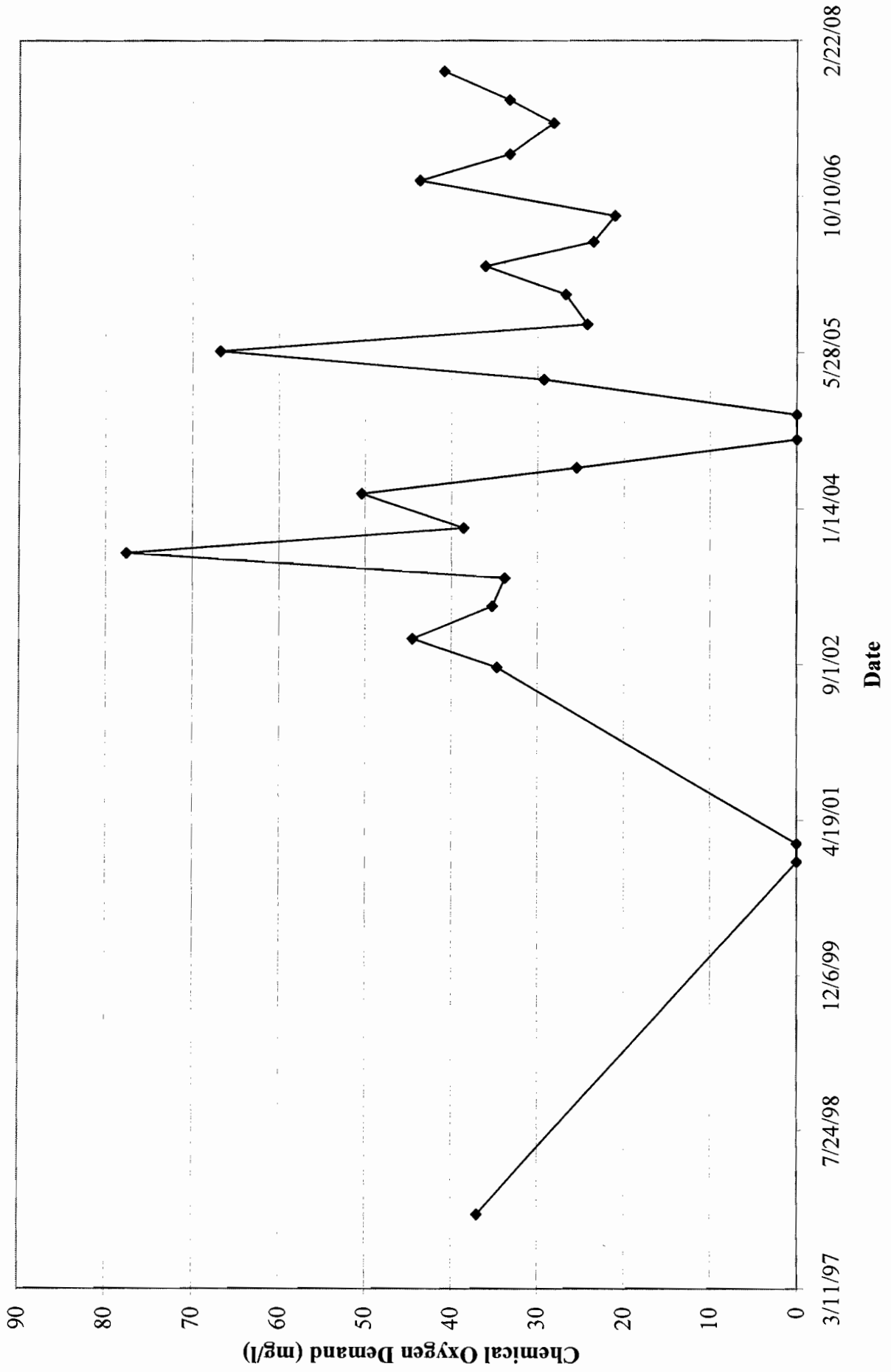
BIOCHEMICAL OXYGEN DEMAND IN MW-03S



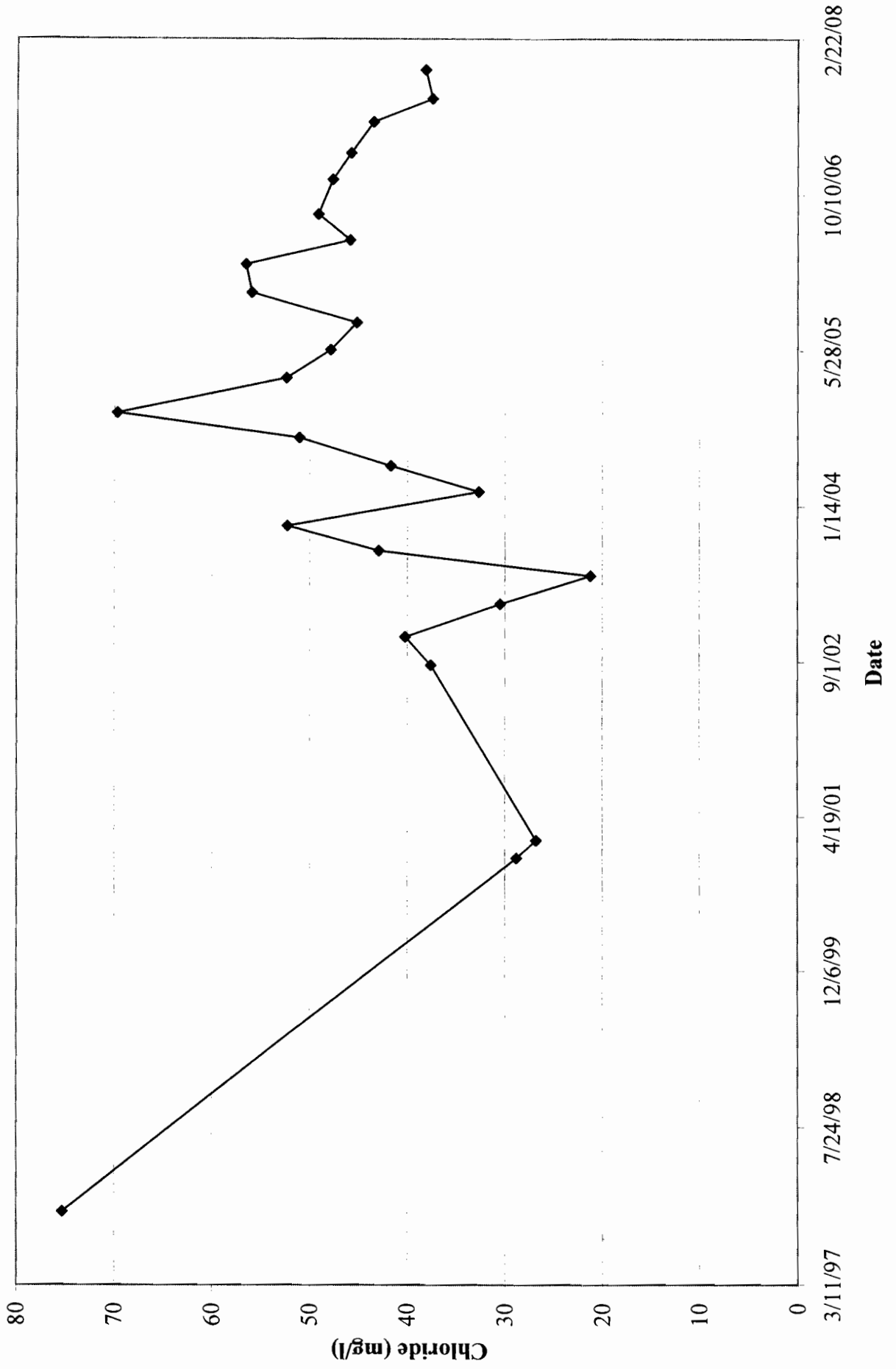
BROMIDE IN MW-03S



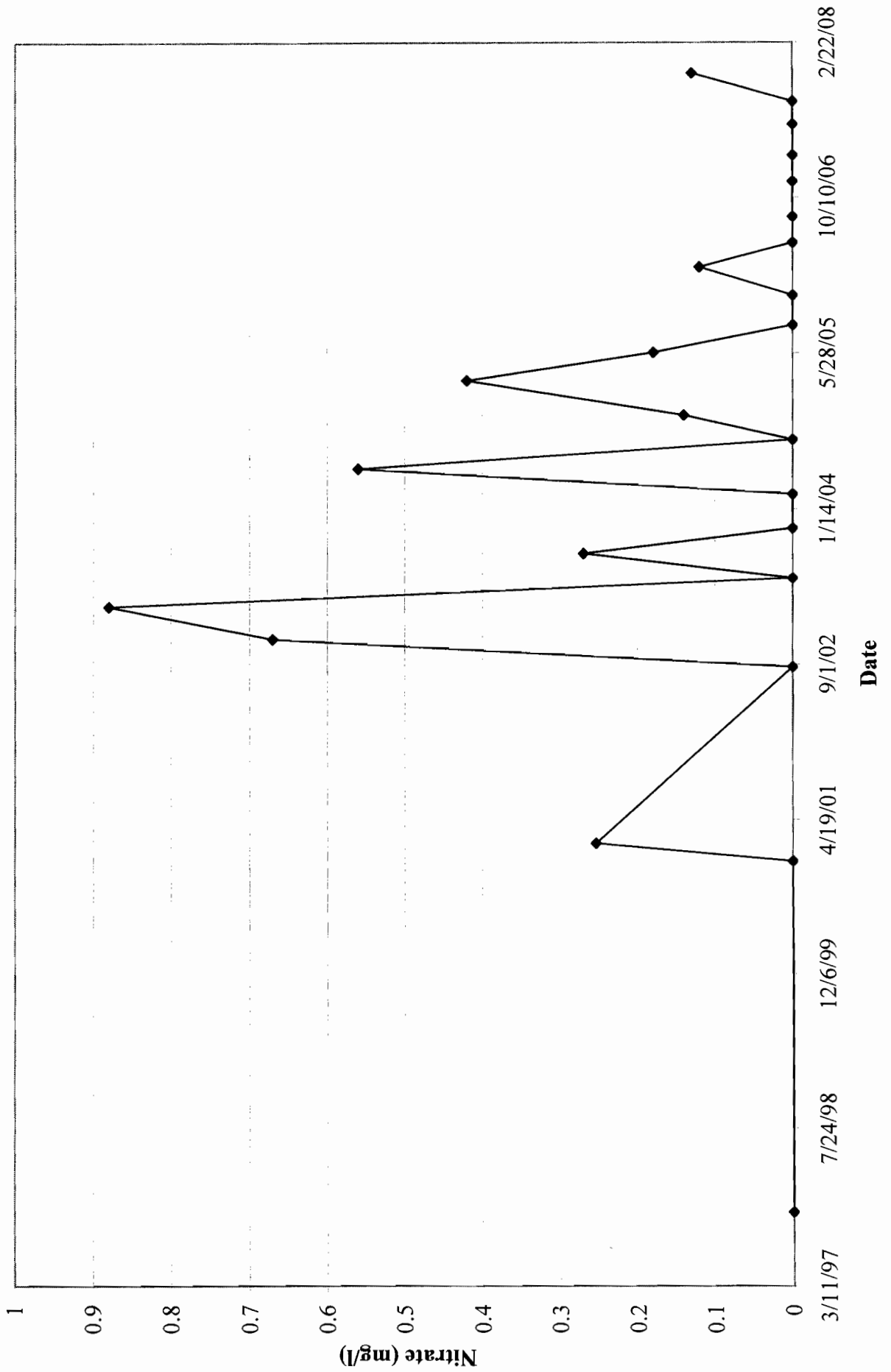
CHEMICAL OXYGEN DEMAND IN MW-03S



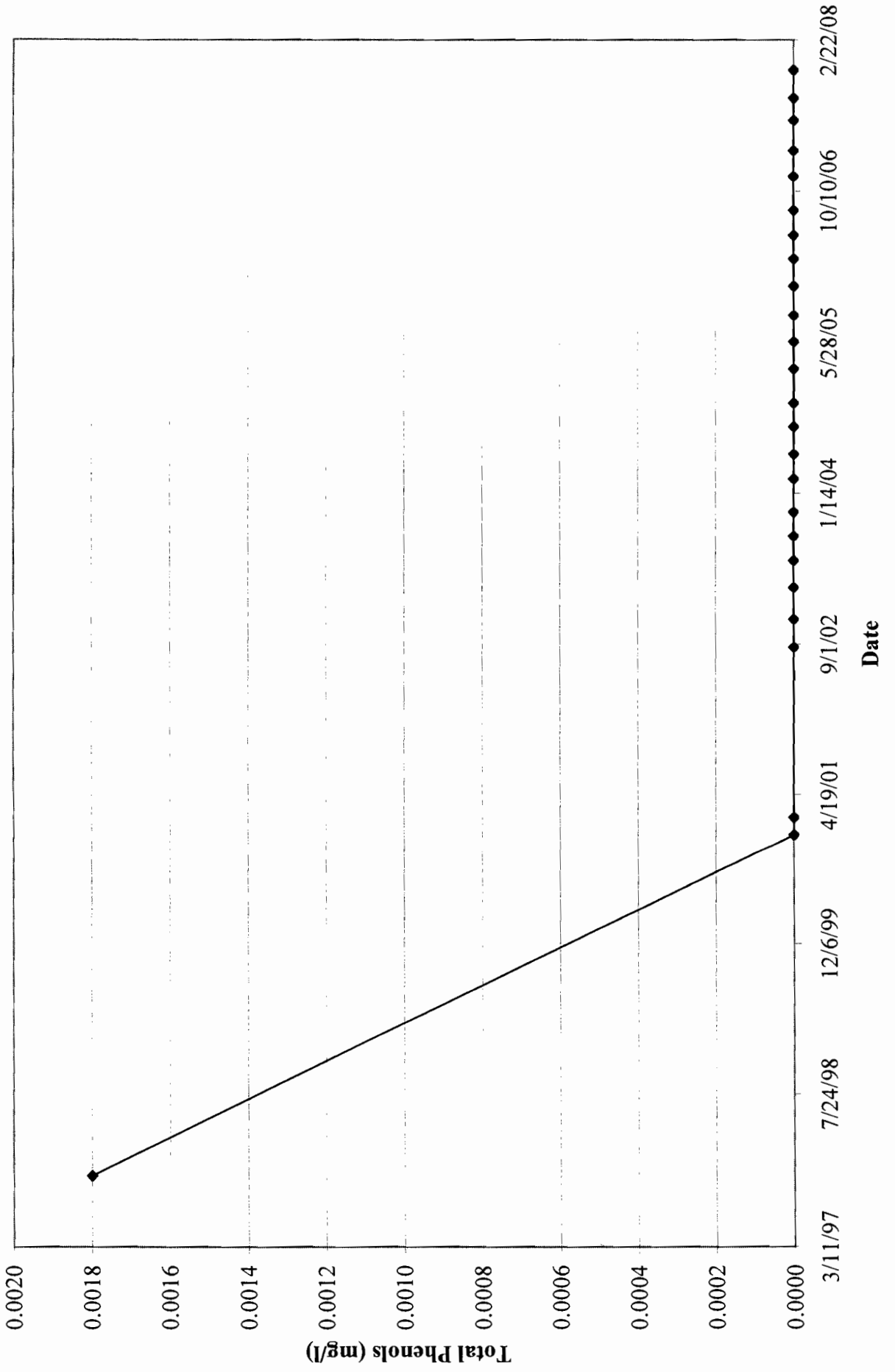
CHLORIDE IN MW-03S



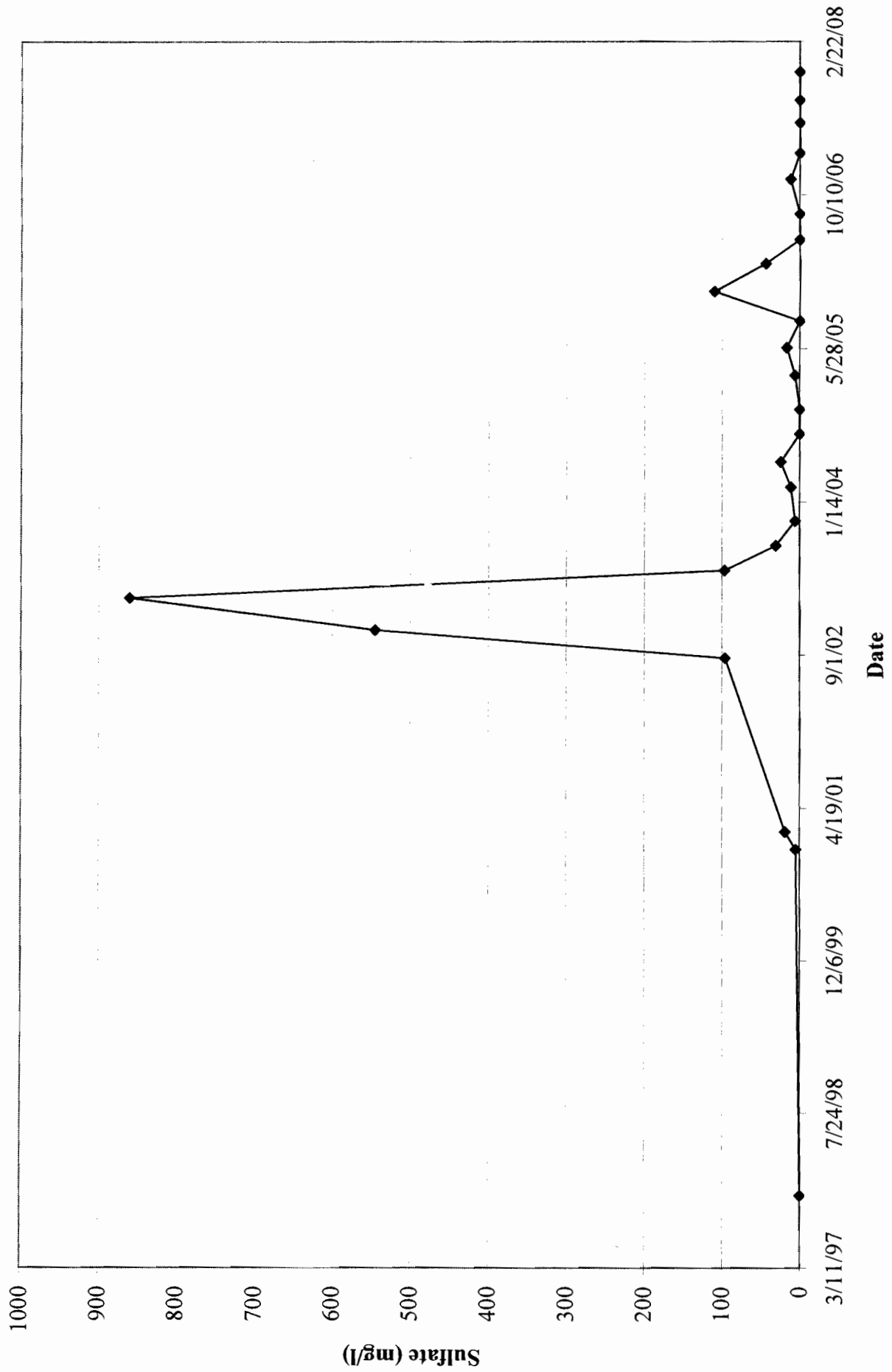
NITRATE IN MW-03S



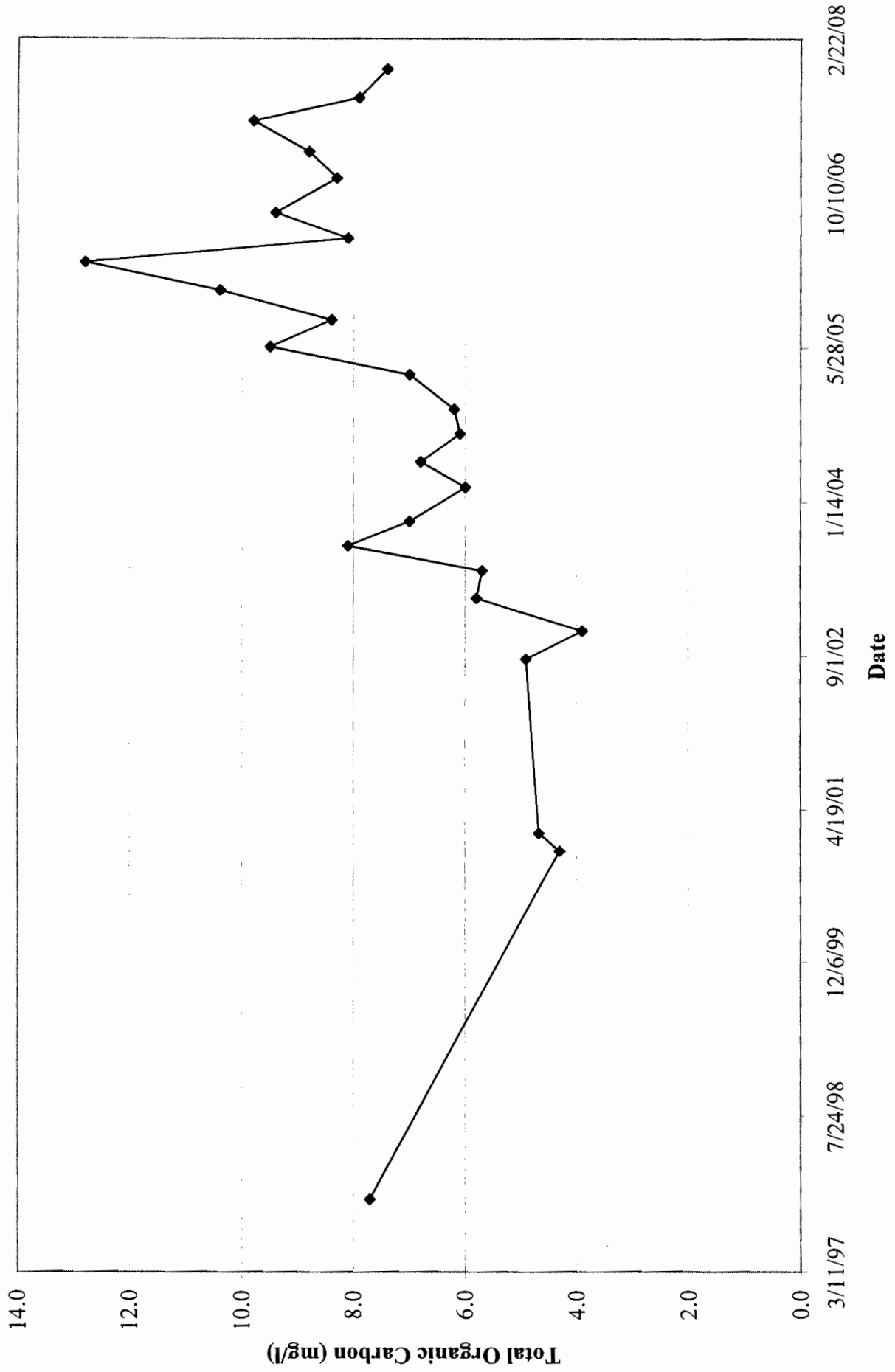
TOTAL PHENOLS IN MW-03S



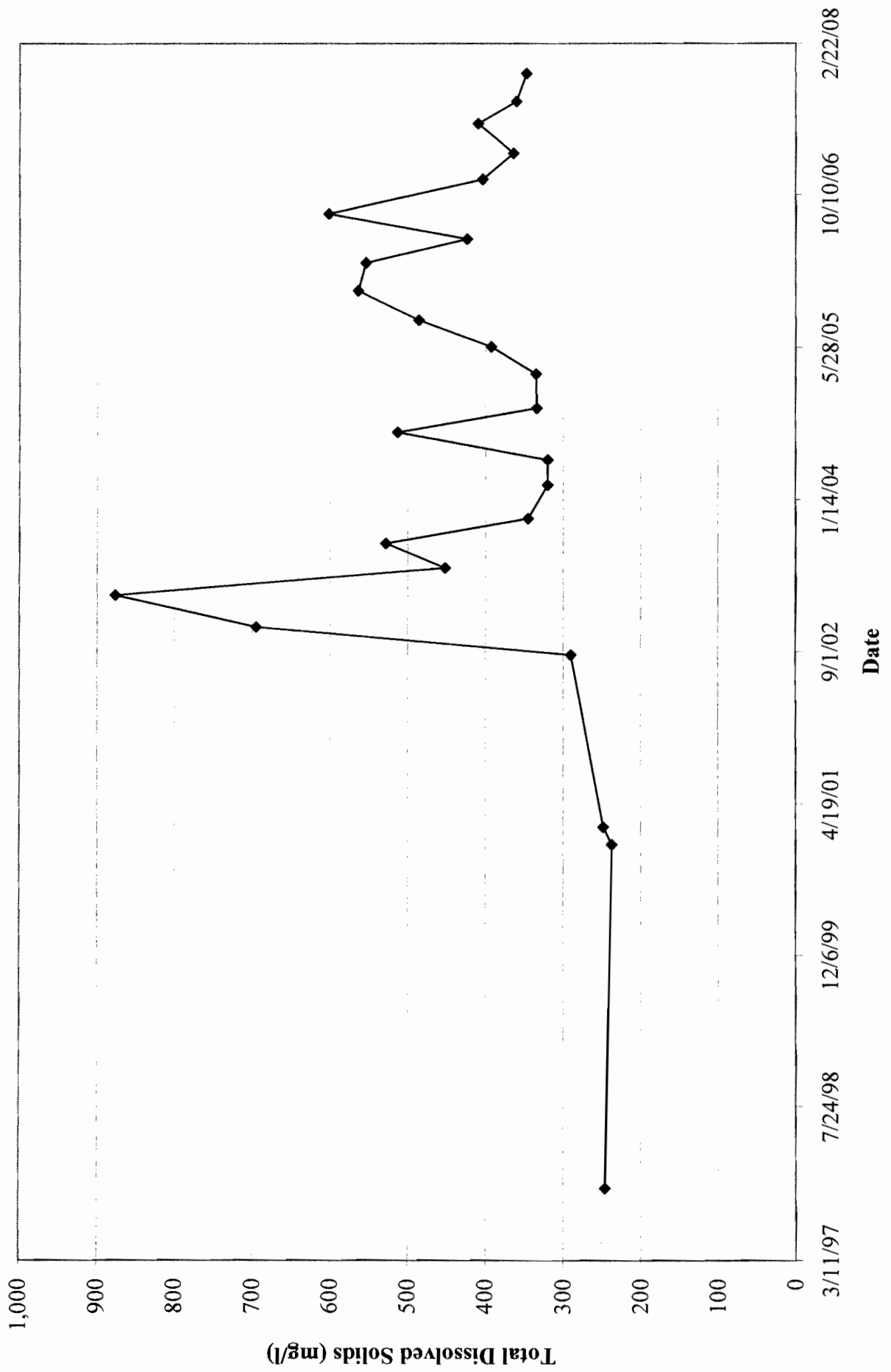
SULFATE IN MW-03S



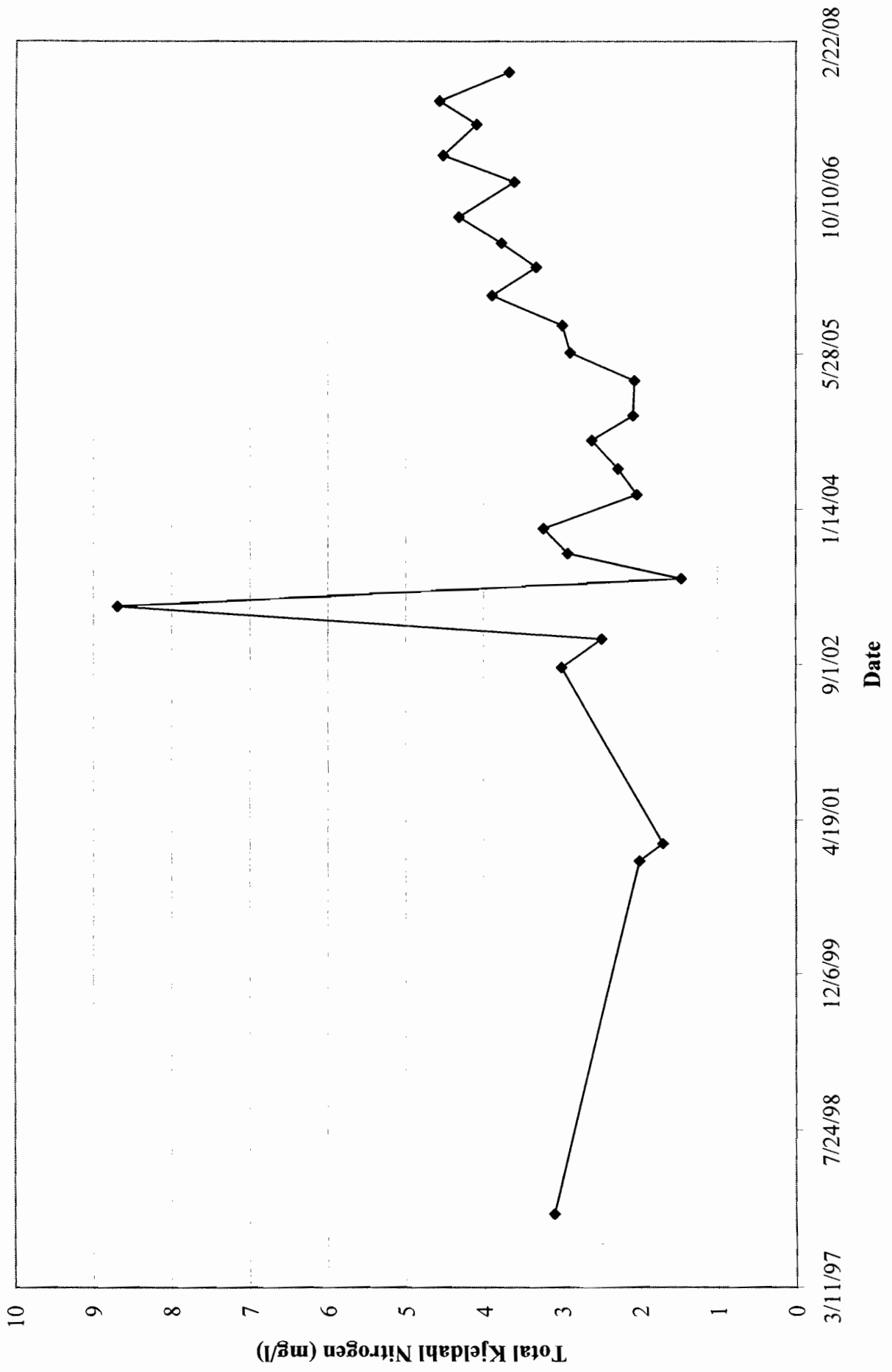
TOTAL ORGANIC CARBON IN MW-03S



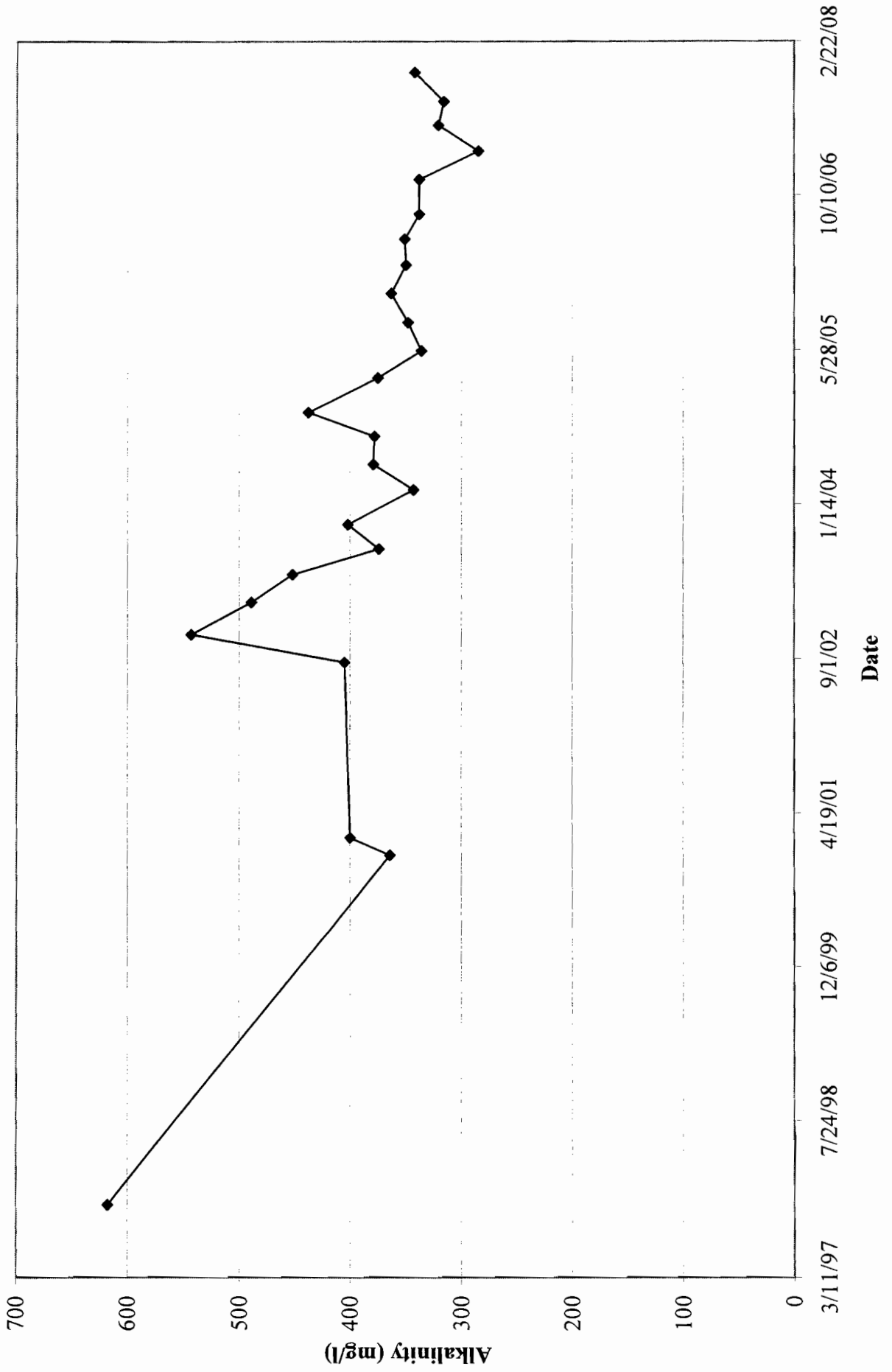
TOTAL DISSOLVED SOLIDS IN MW-03S



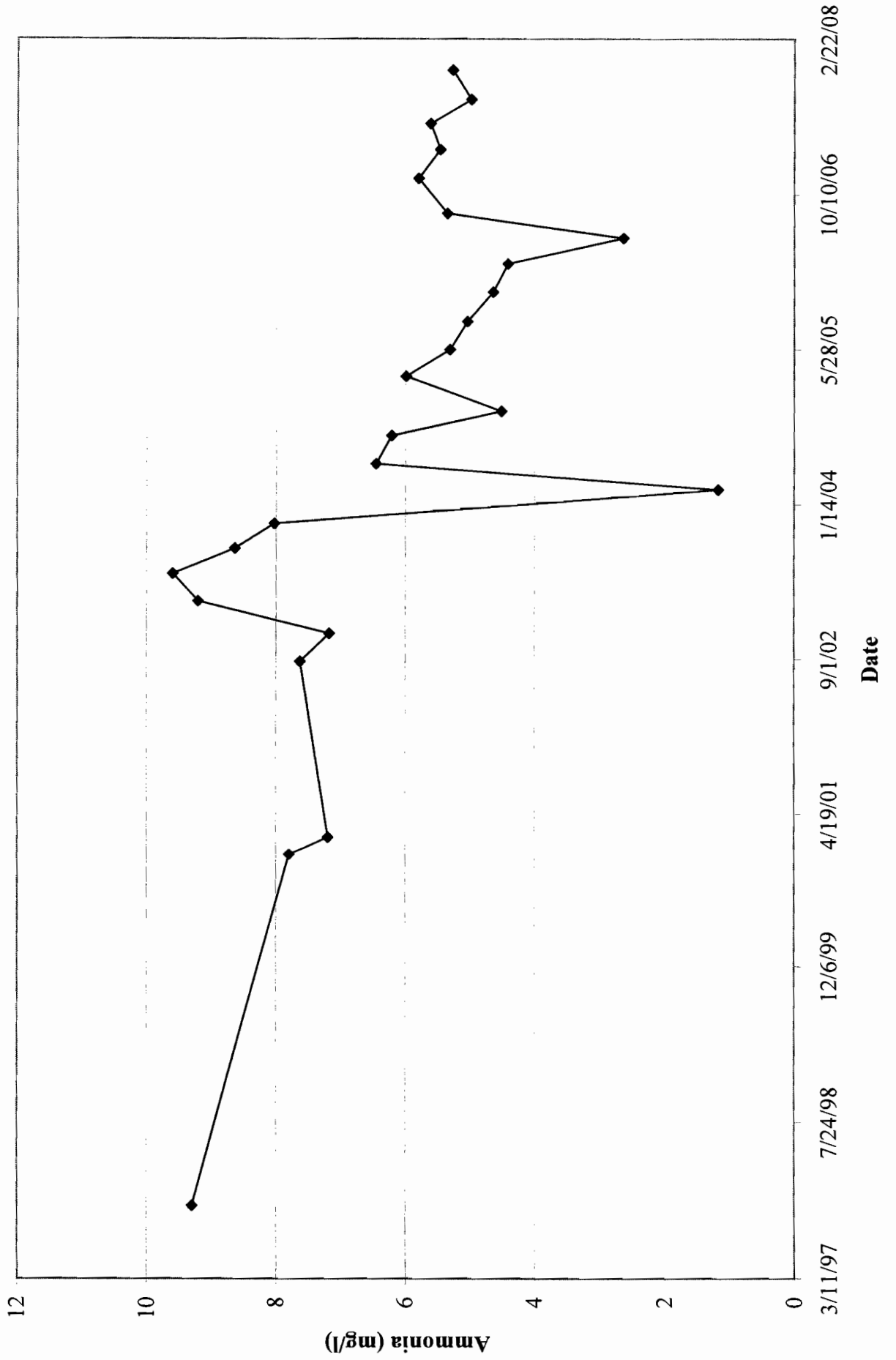
TOTAL KJELDAHL NITROGEN IN MW-03S



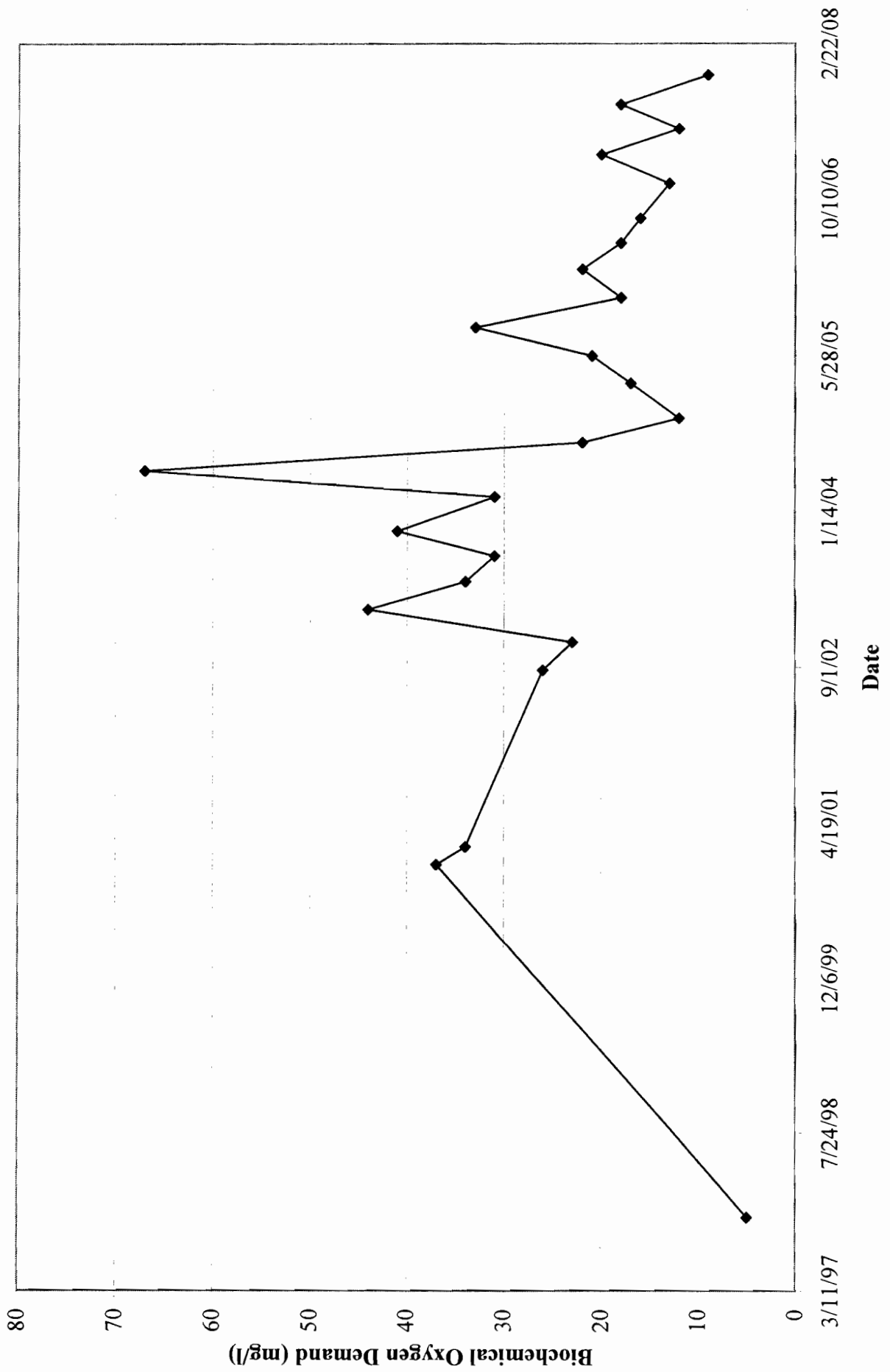
ALKALINITY IN MW-04S



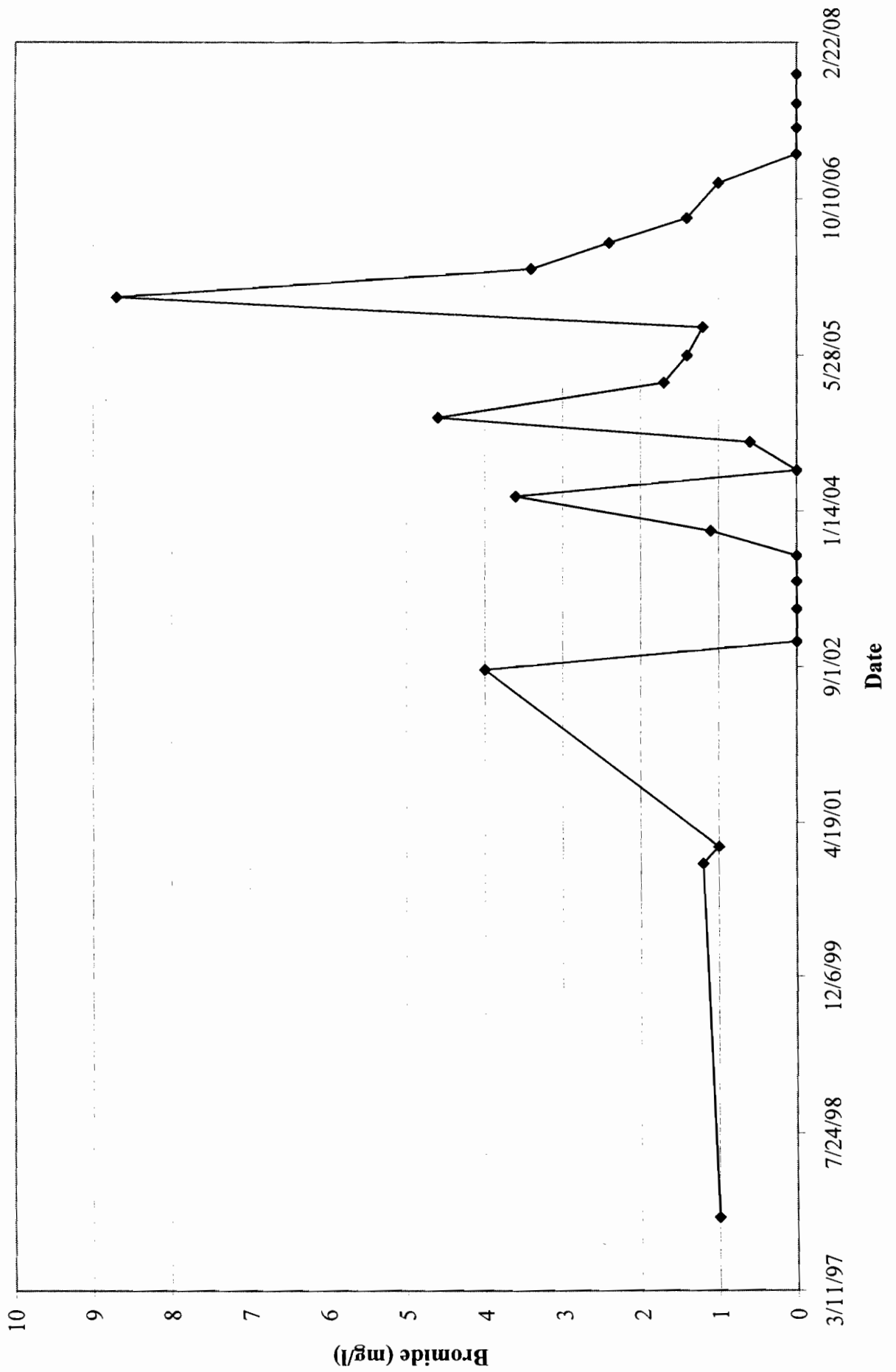
AMMONIA IN MW-04S



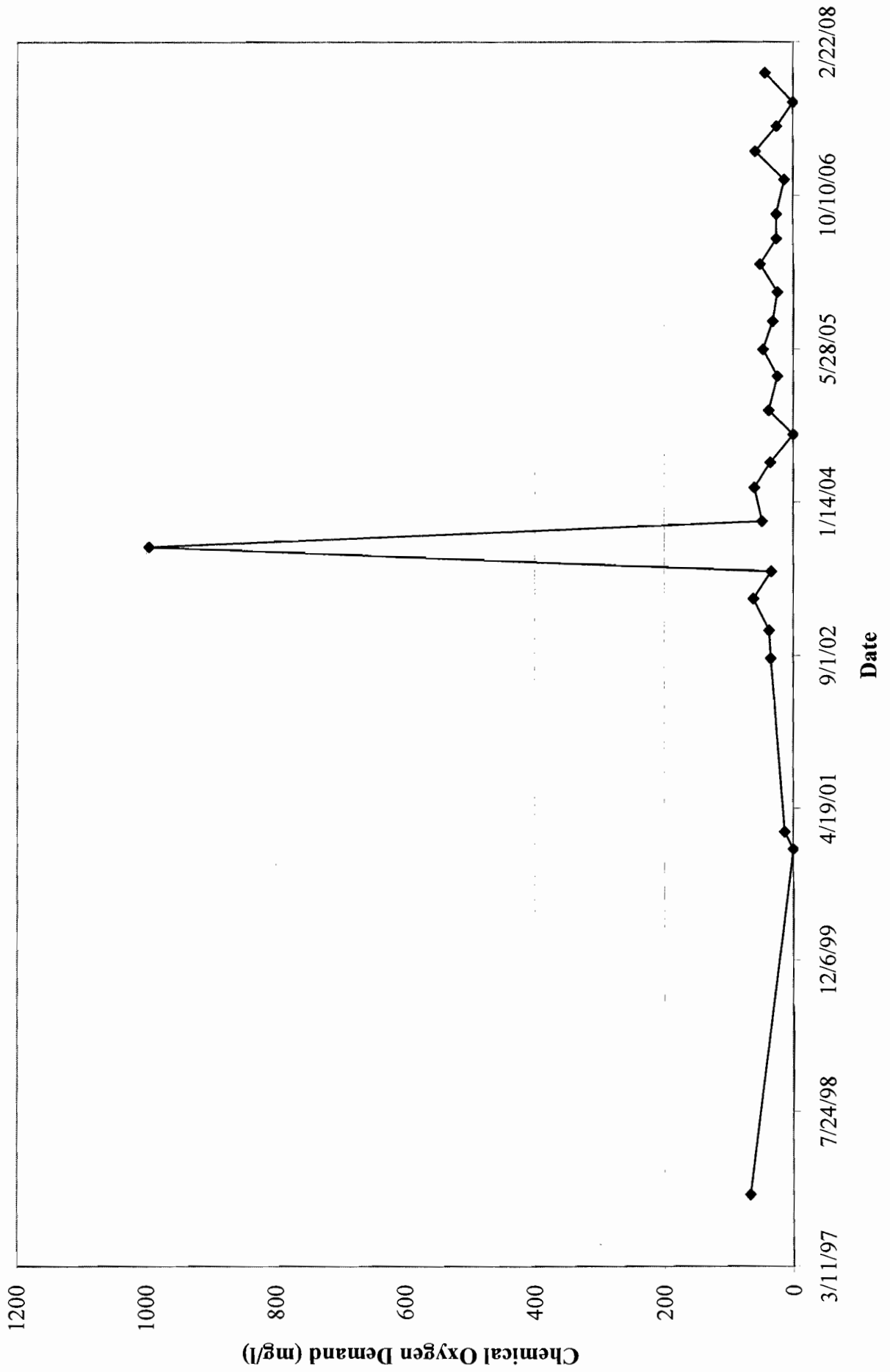
BIOCHEMICAL OXYGEN DEMAND IN MW-04S



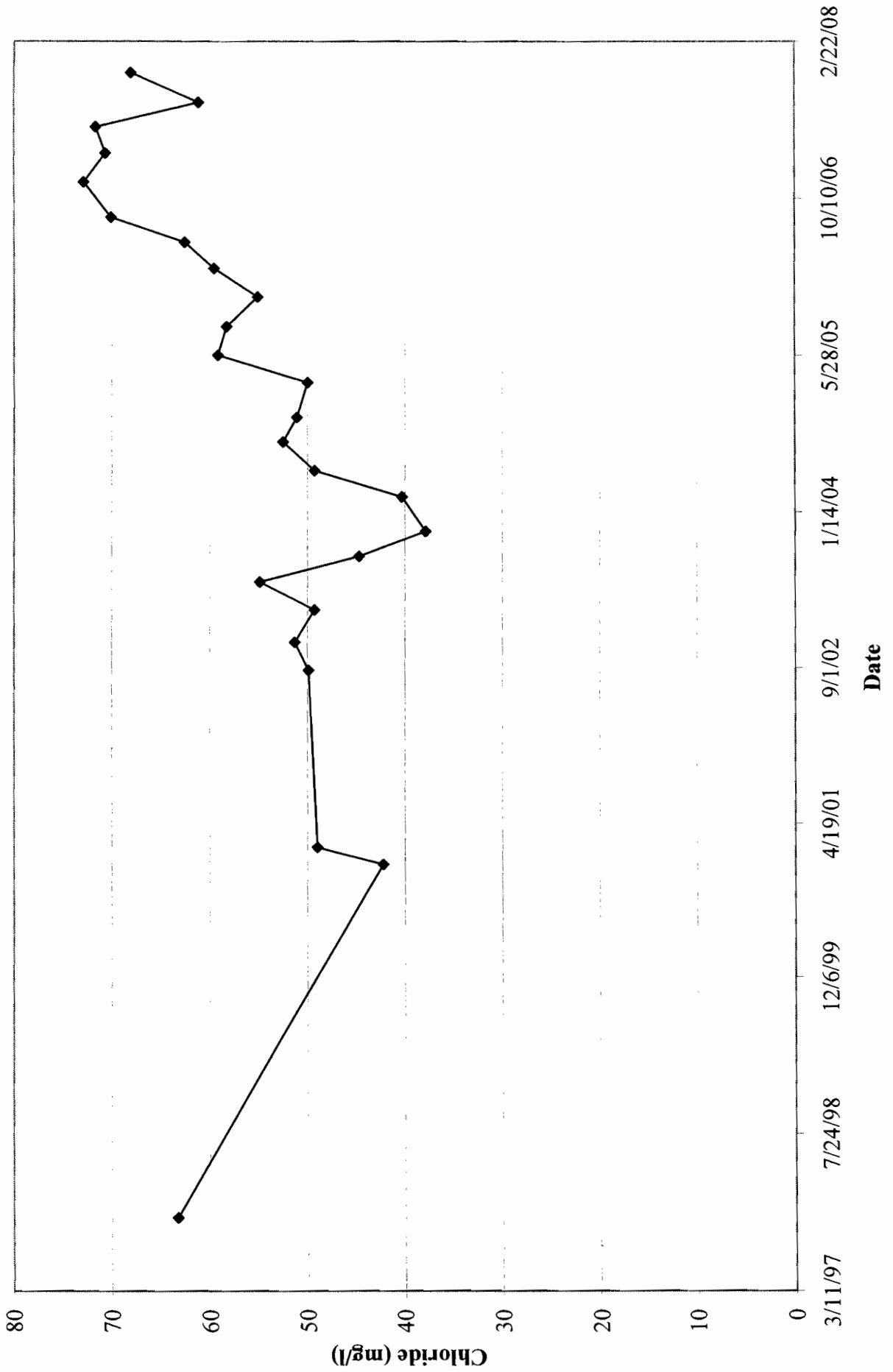
BROMIDE IN MW-04S



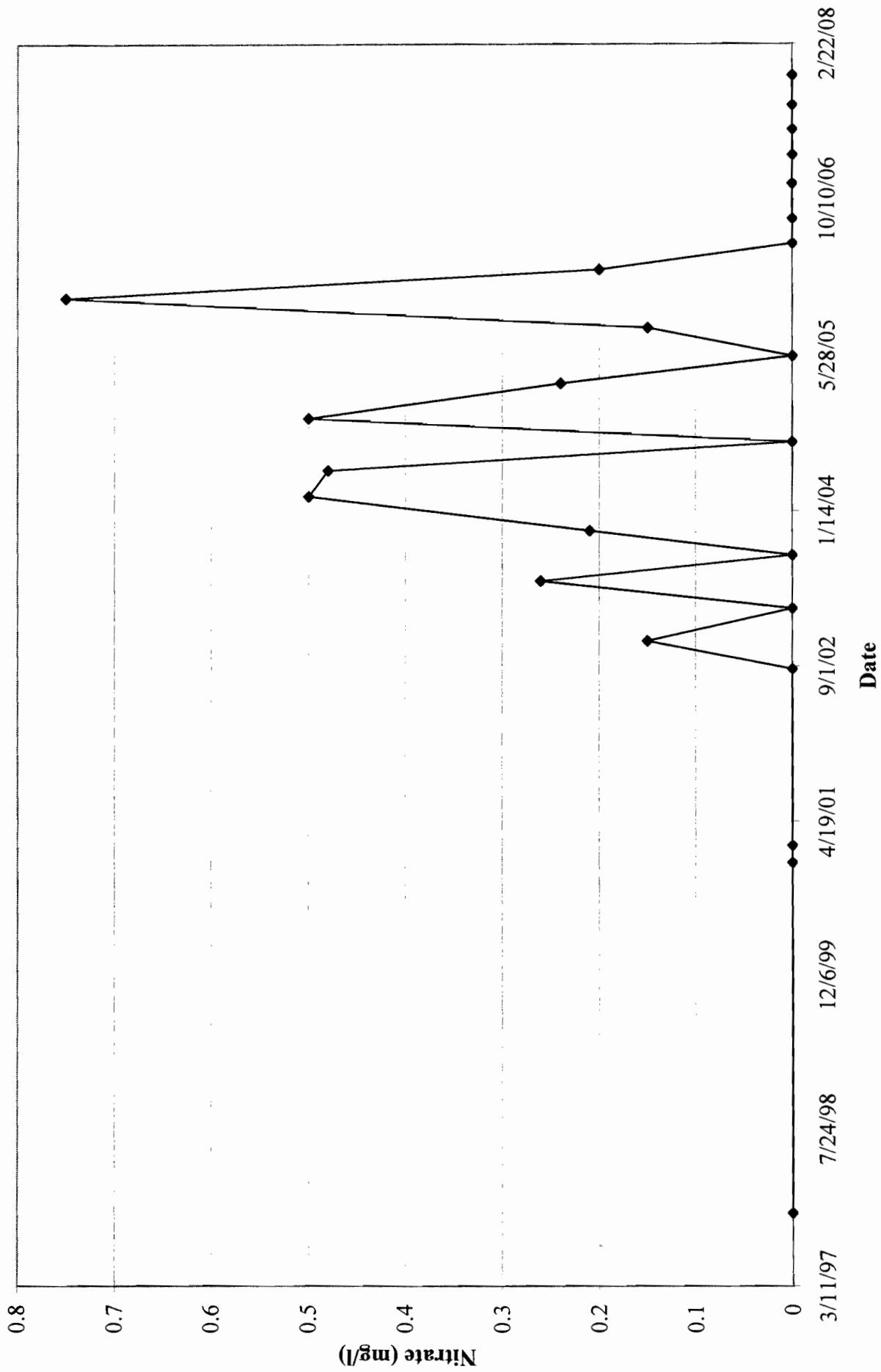
CHEMICAL OXYGEN DEMAND IN MW-04S



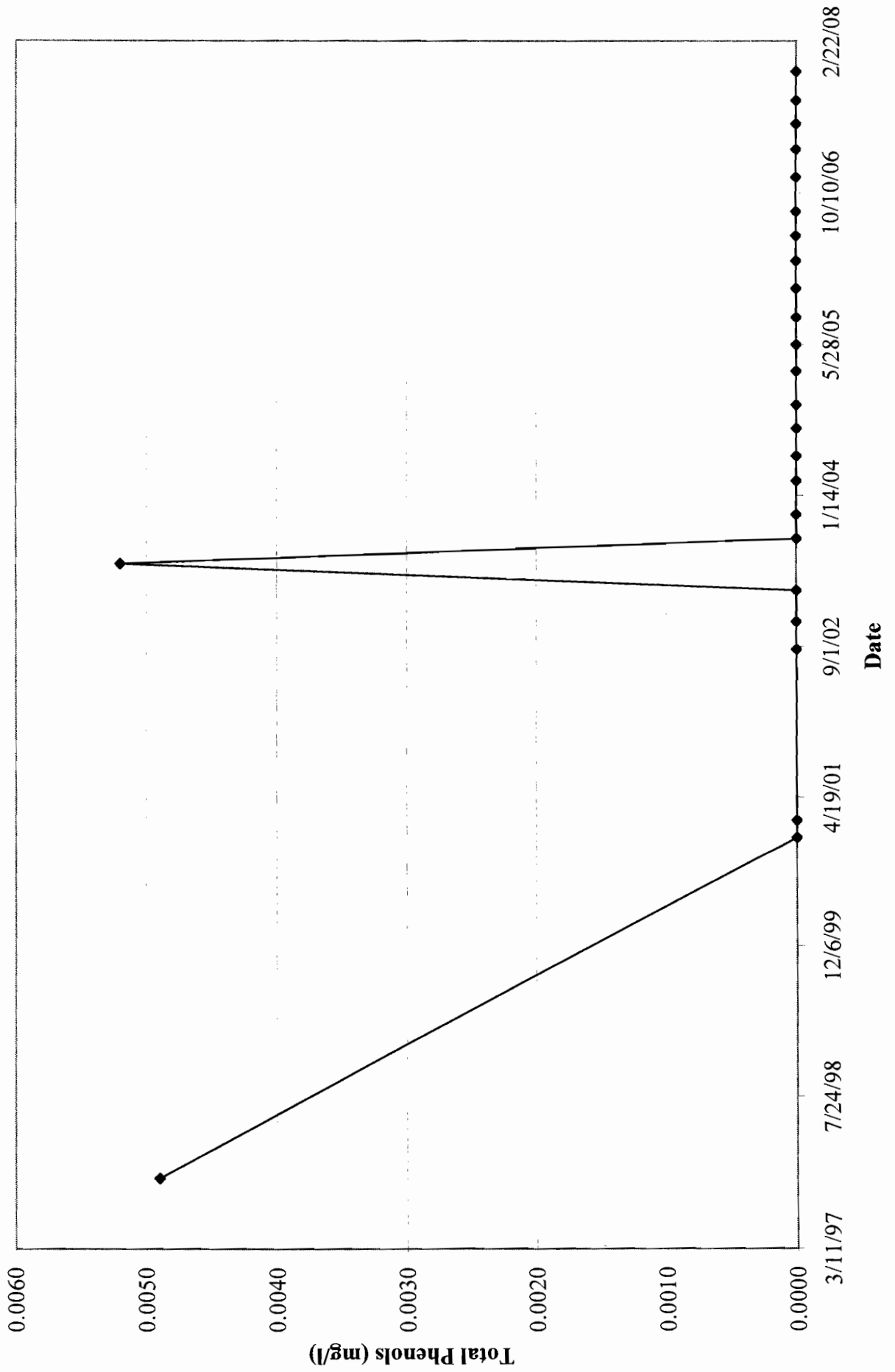
CHLORIDE IN MW-04S



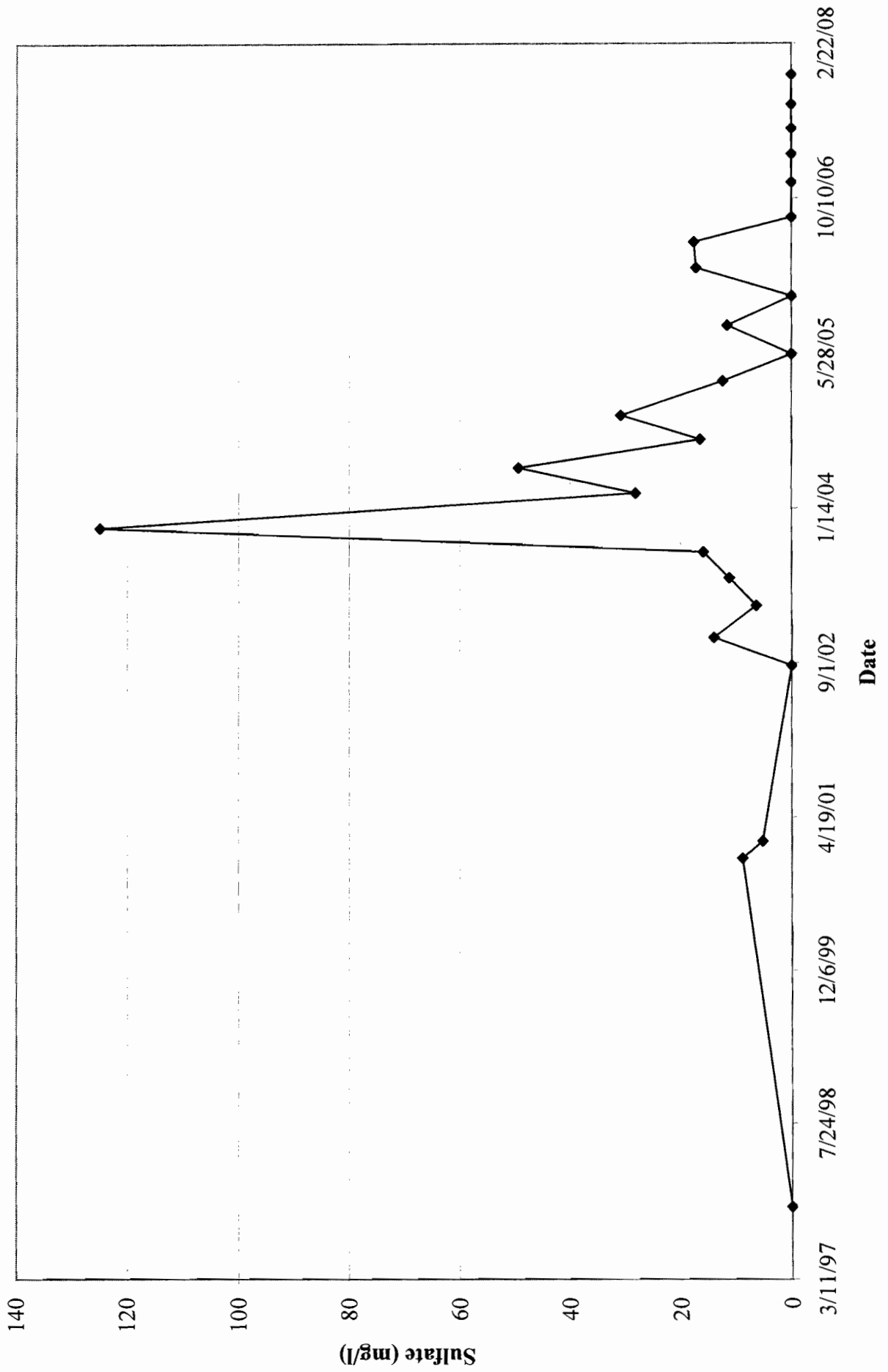
NITRATE IN MW-04S



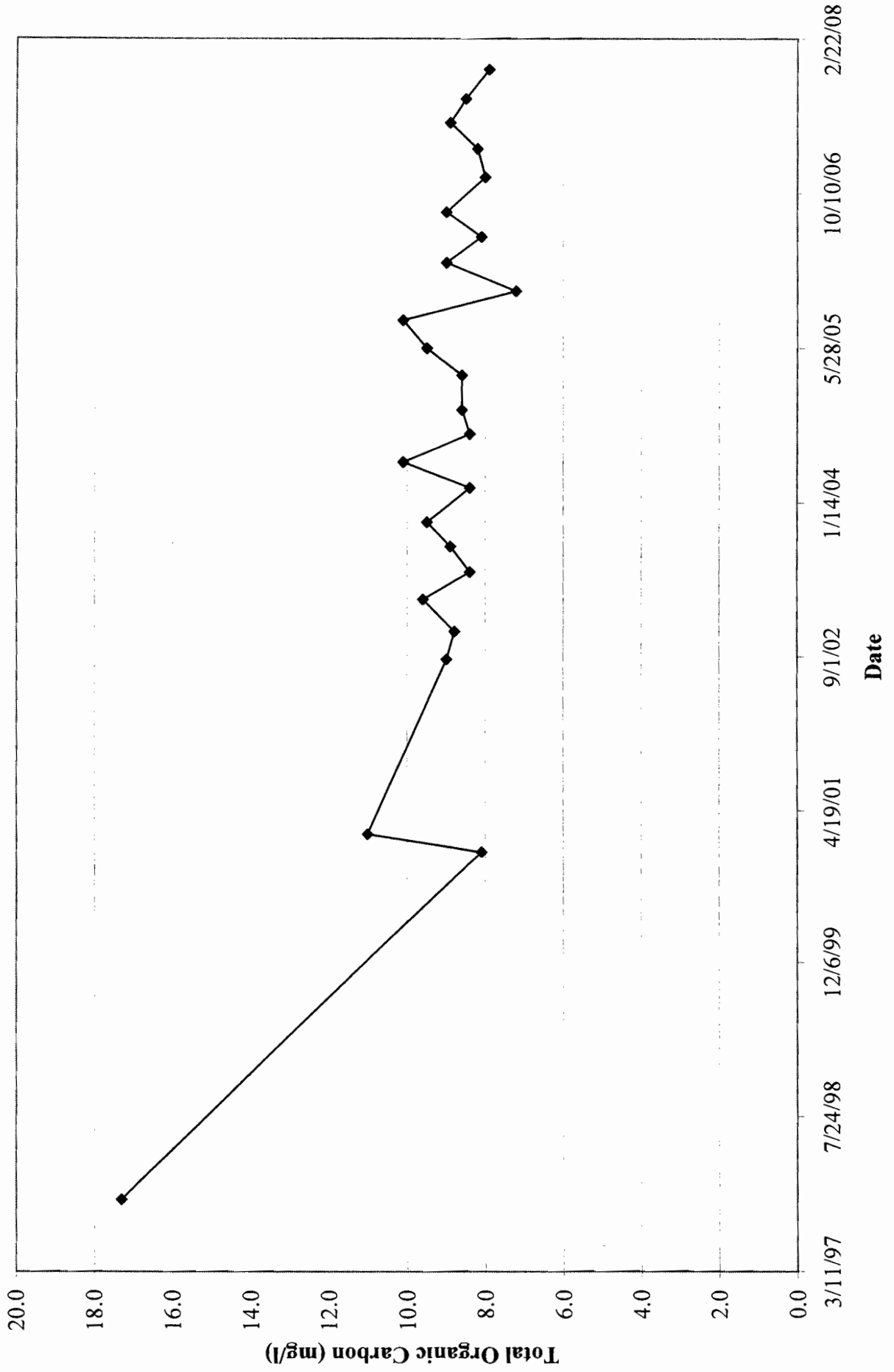
TOTAL PHENOLS IN MW-04S



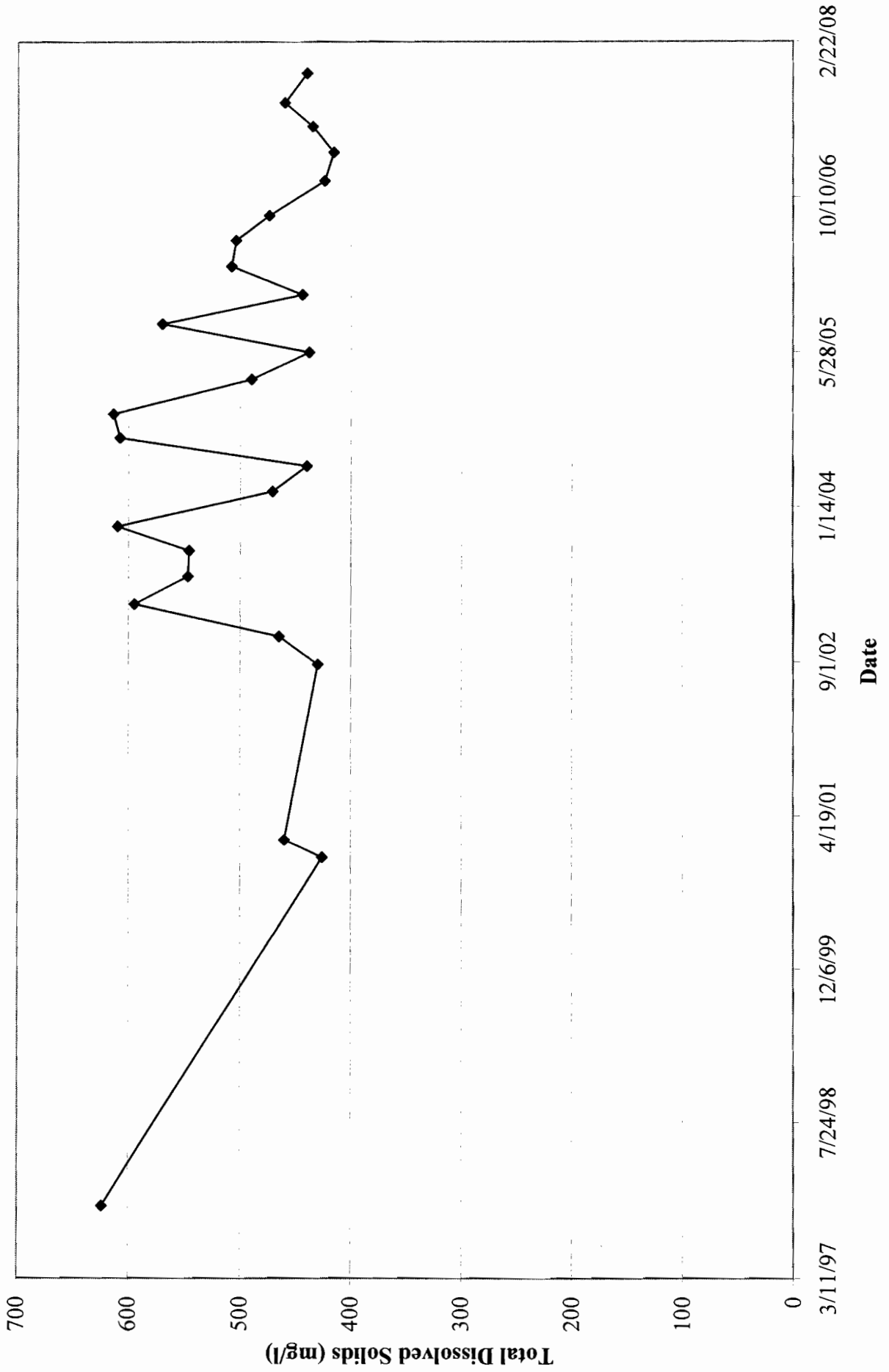
SULFATE IN MW-04S



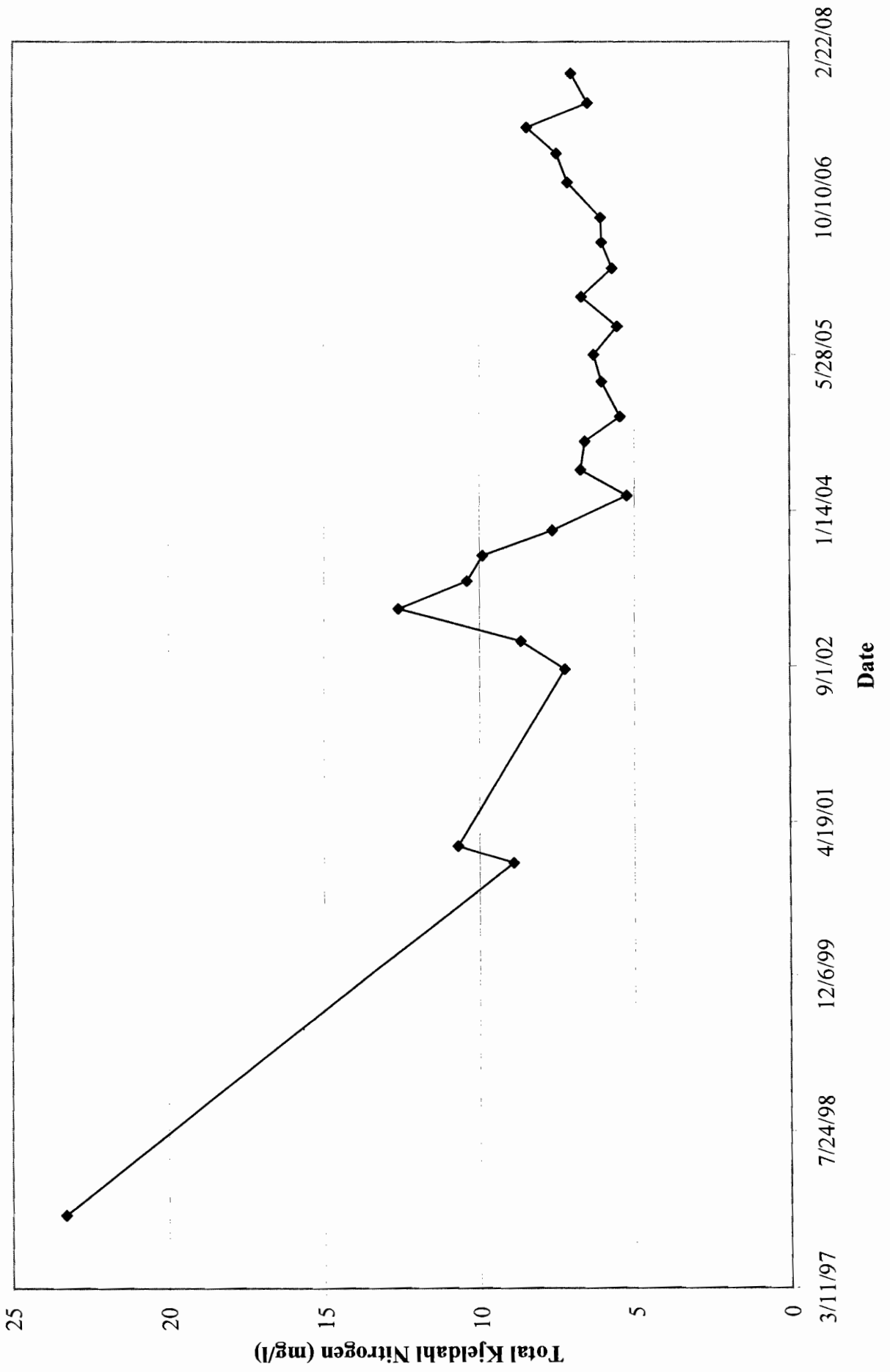
TOTAL ORGANIC CARBON IN MW-04S



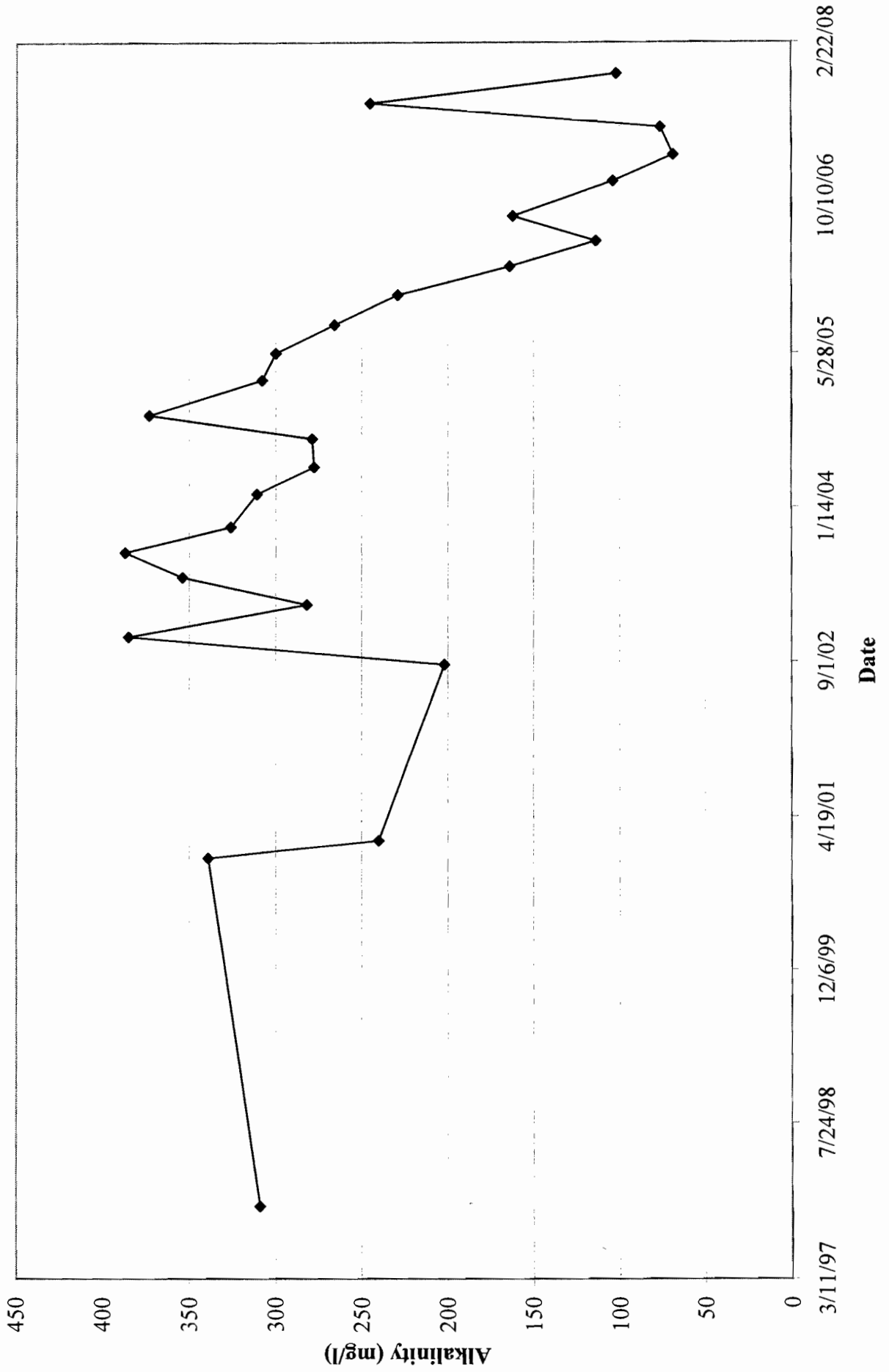
TOTAL DISSOLVED SOLIDS IN MW-04S



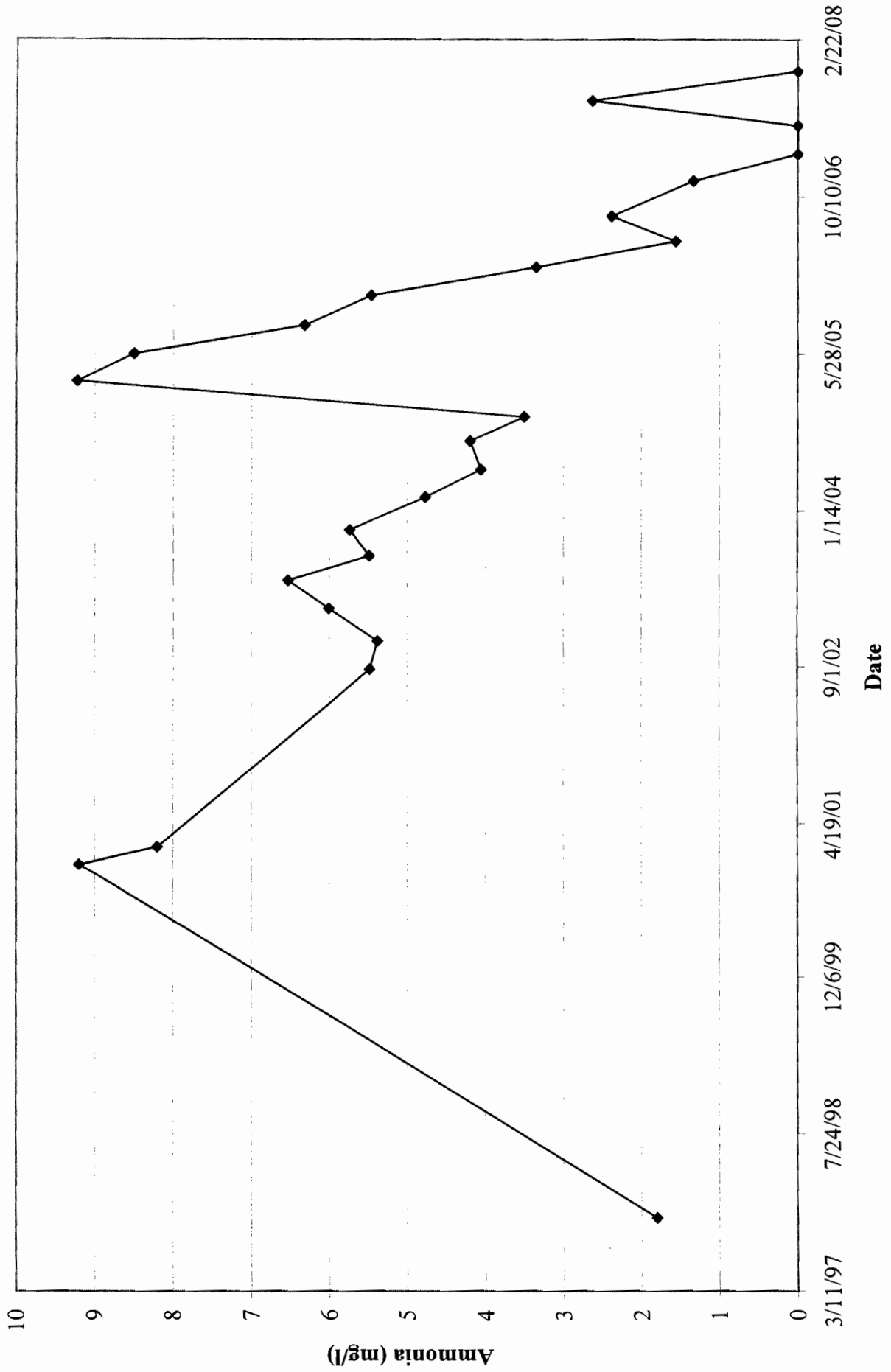
TOTAL KJELDAHL NITROGEN IN MW-04S



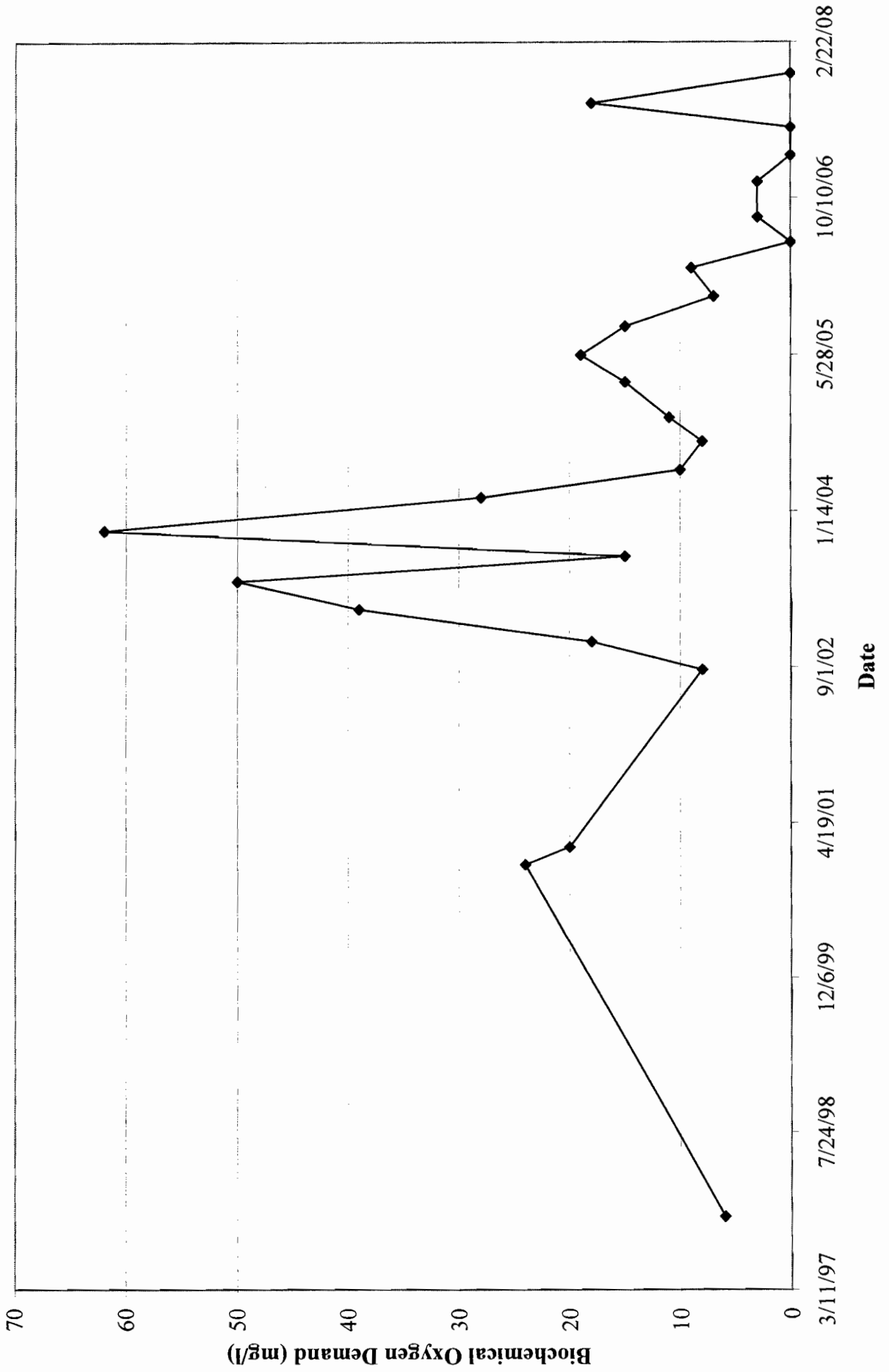
ALKALINITY IN MW-04I



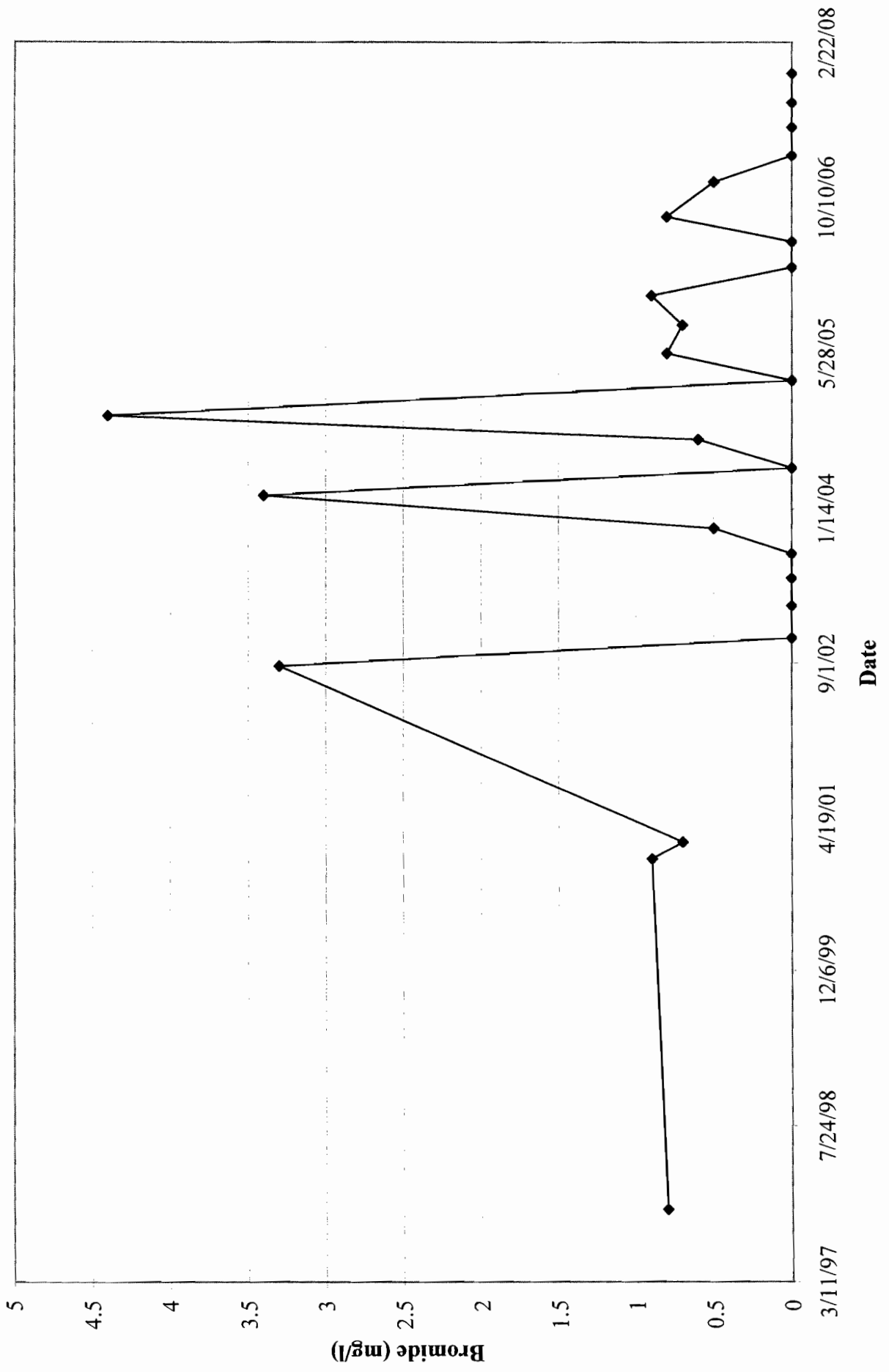
AMMONIA IN MW-04I



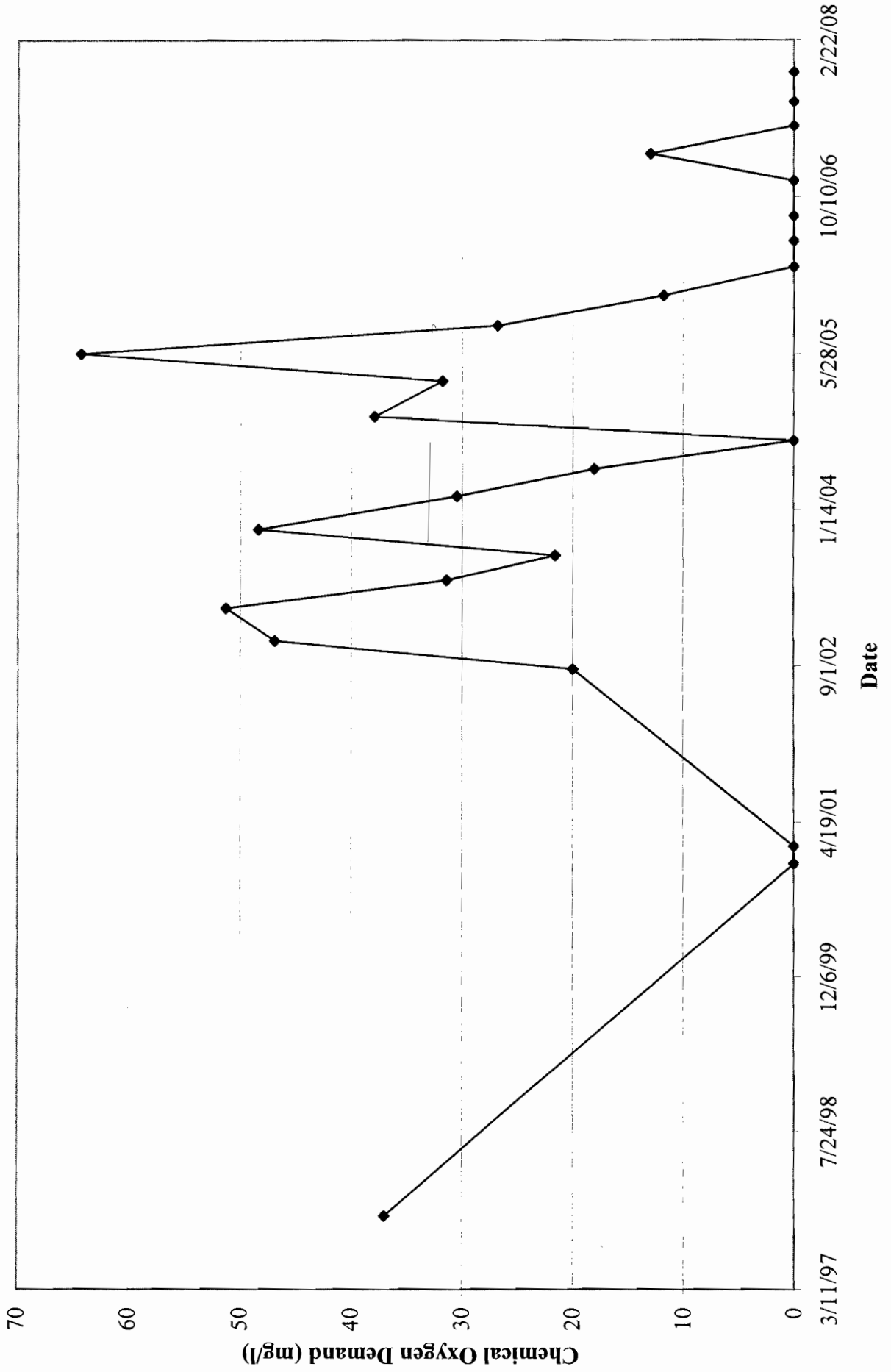
BIOCHEMICAL OXYGEN DEMAND IN MW-04I



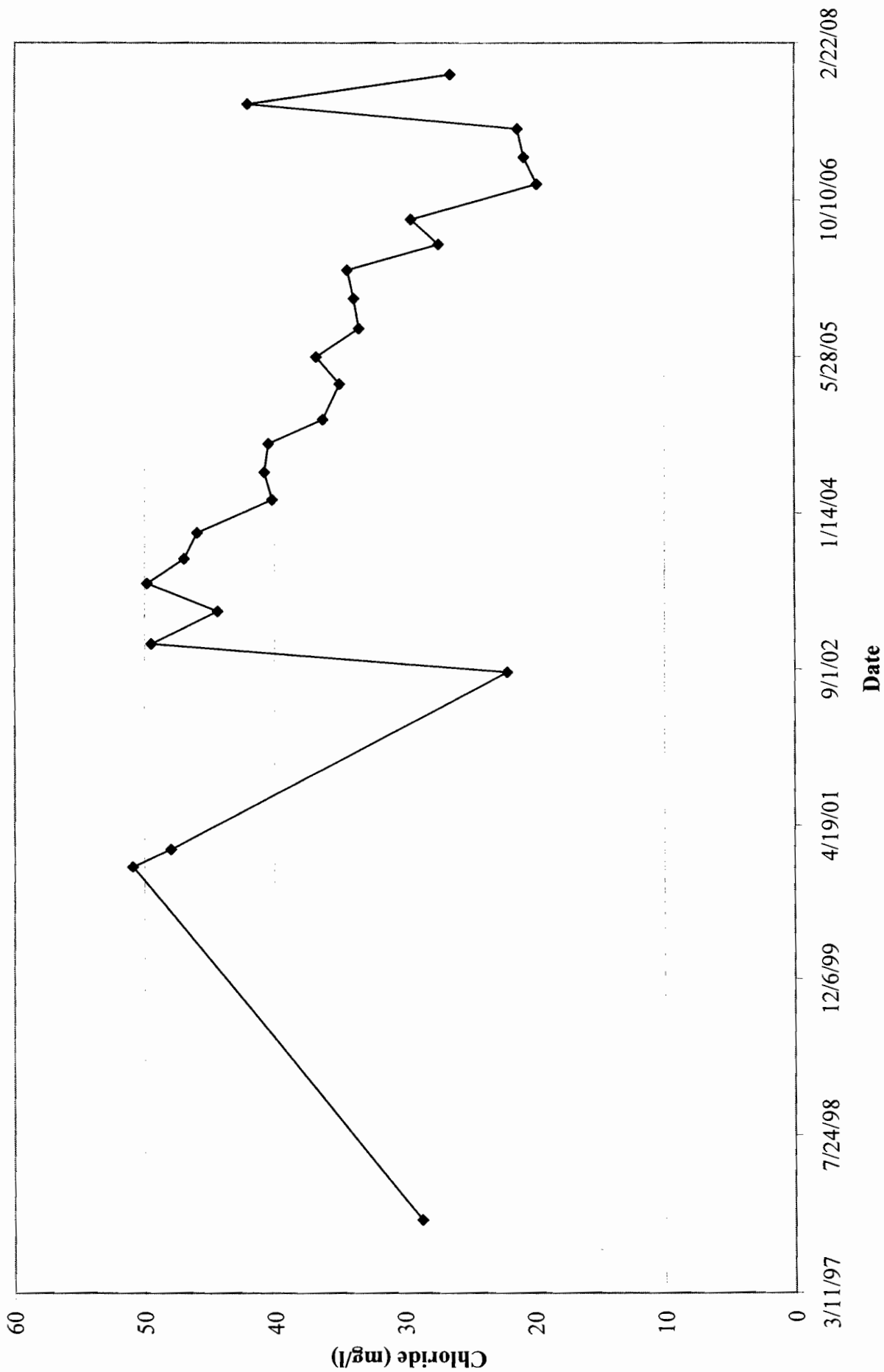
BROMIDE IN MW-04I



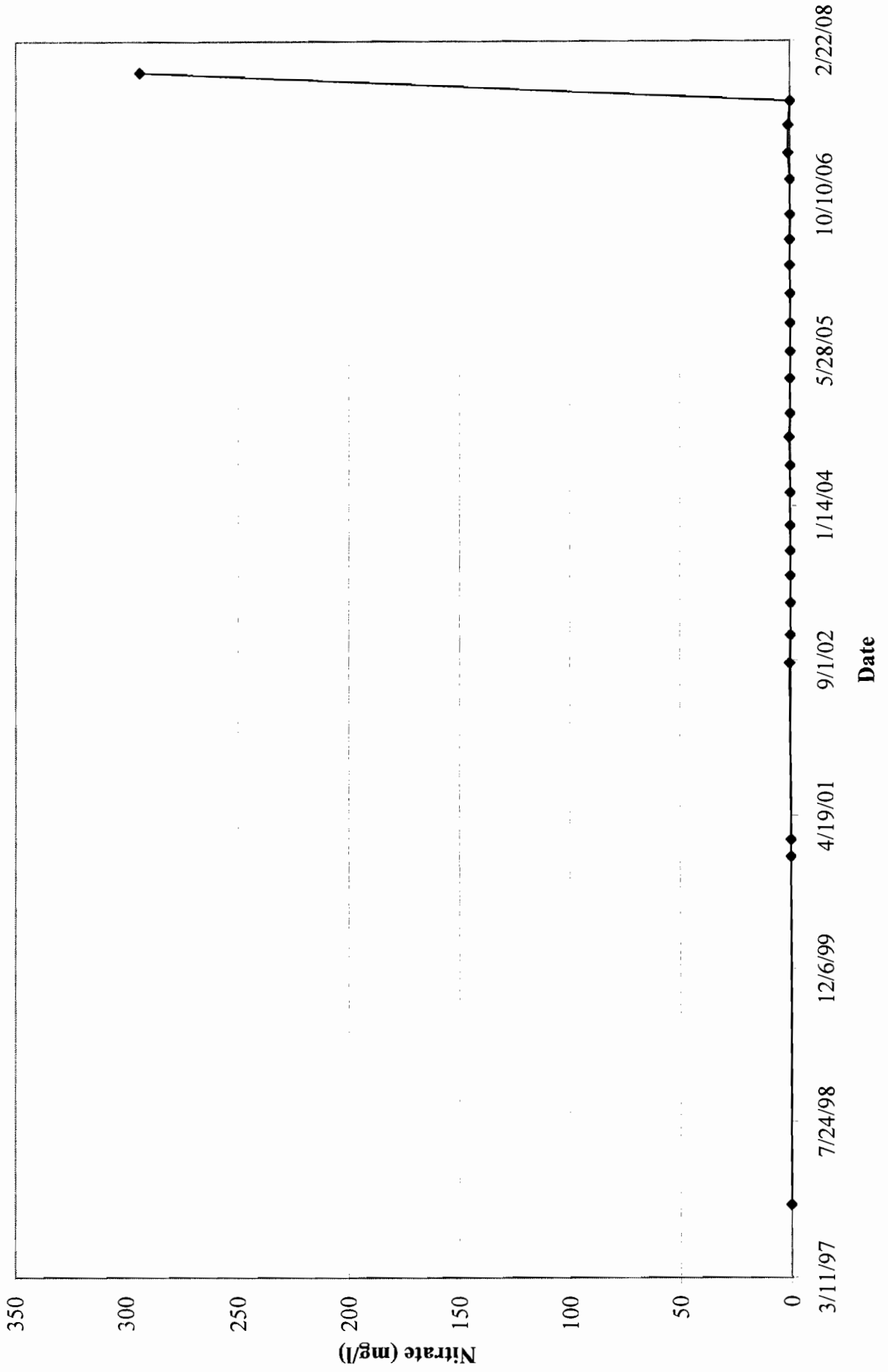
CHEMICAL OXYGEN DEMAND IN MW-04I



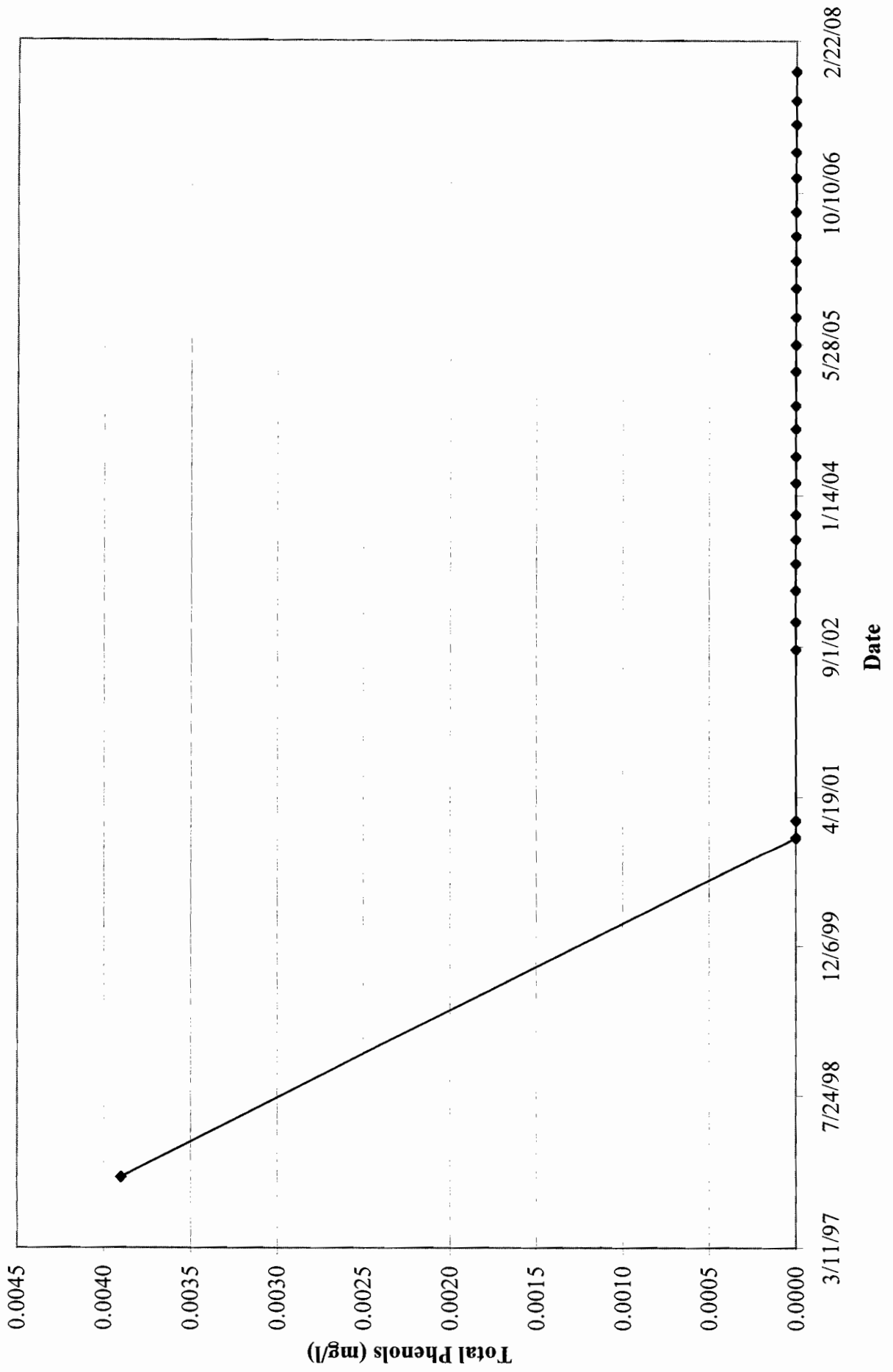
CHLORIDE IN MW-04I



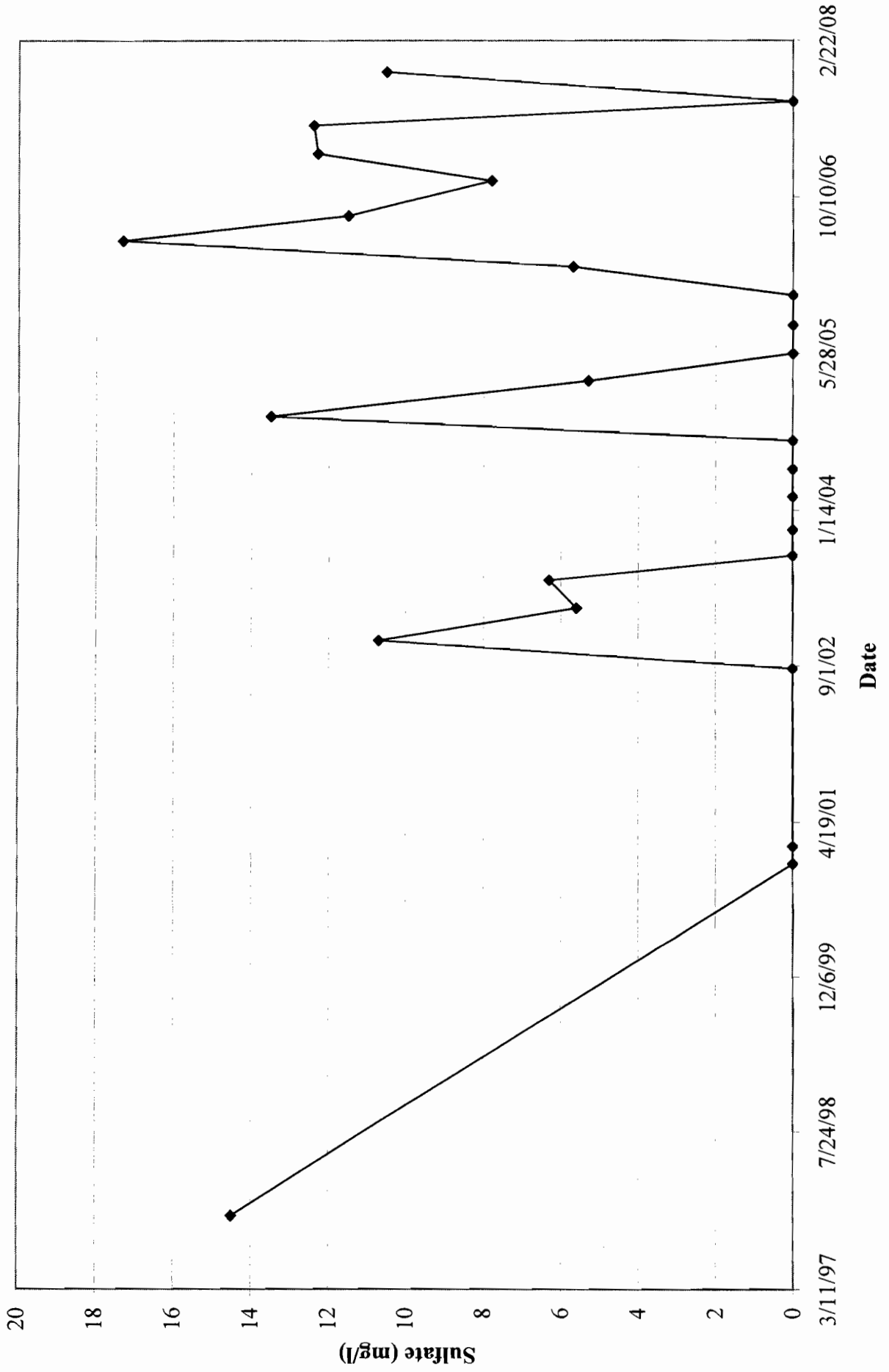
NITRATE IN MW-04I



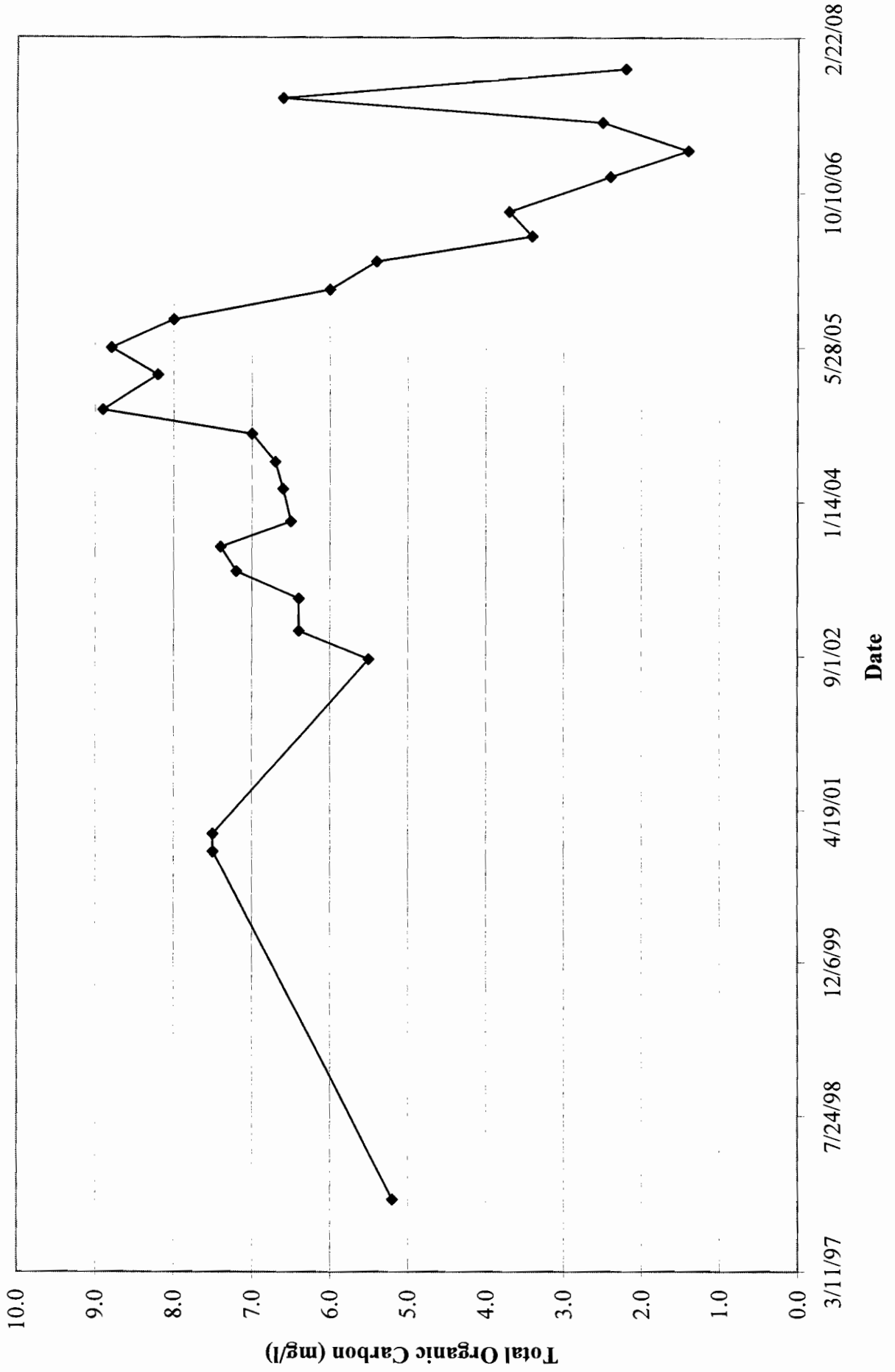
TOTAL PHENOLS IN MW-04I



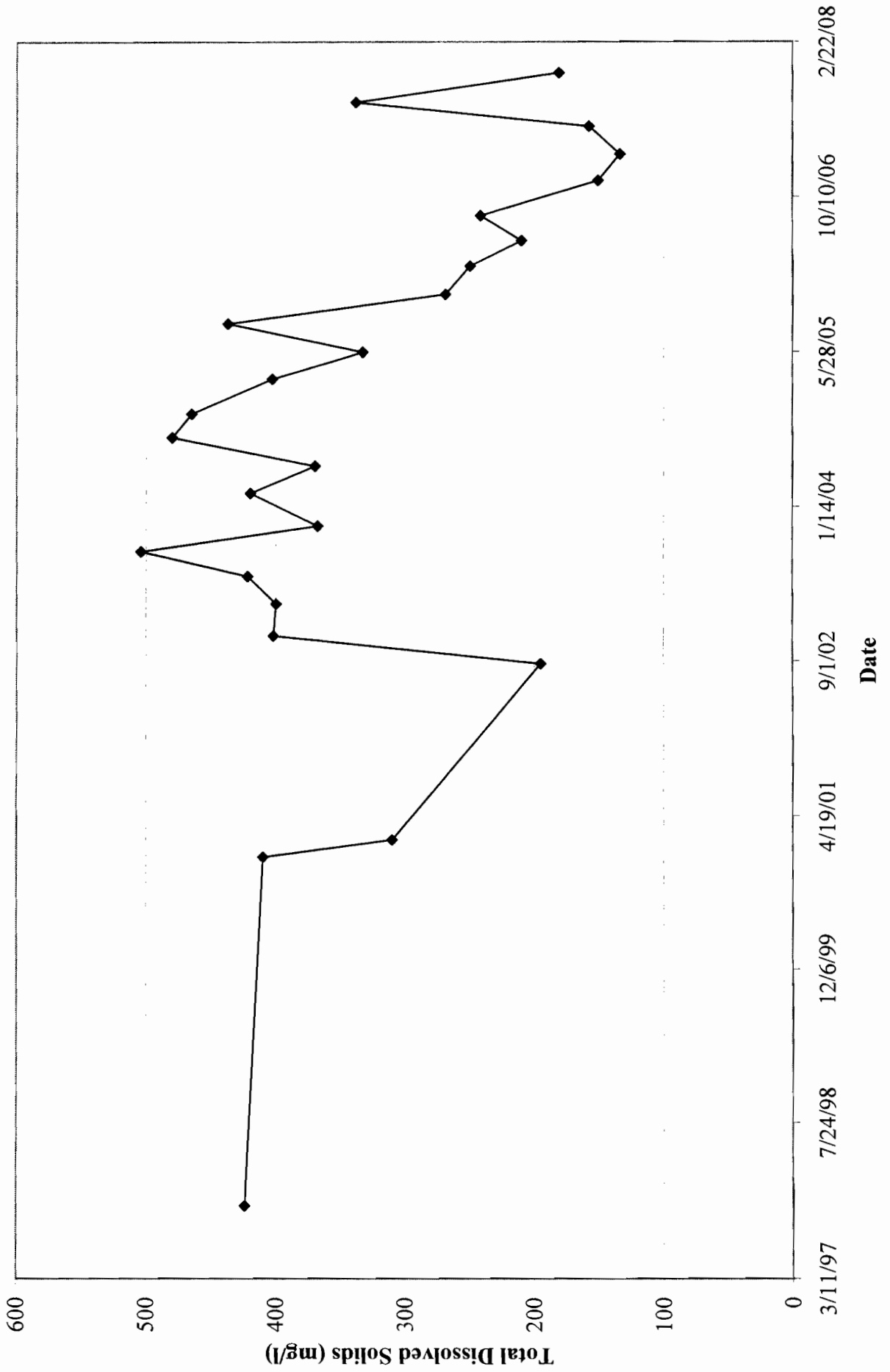
SULFATE IN MW-04I



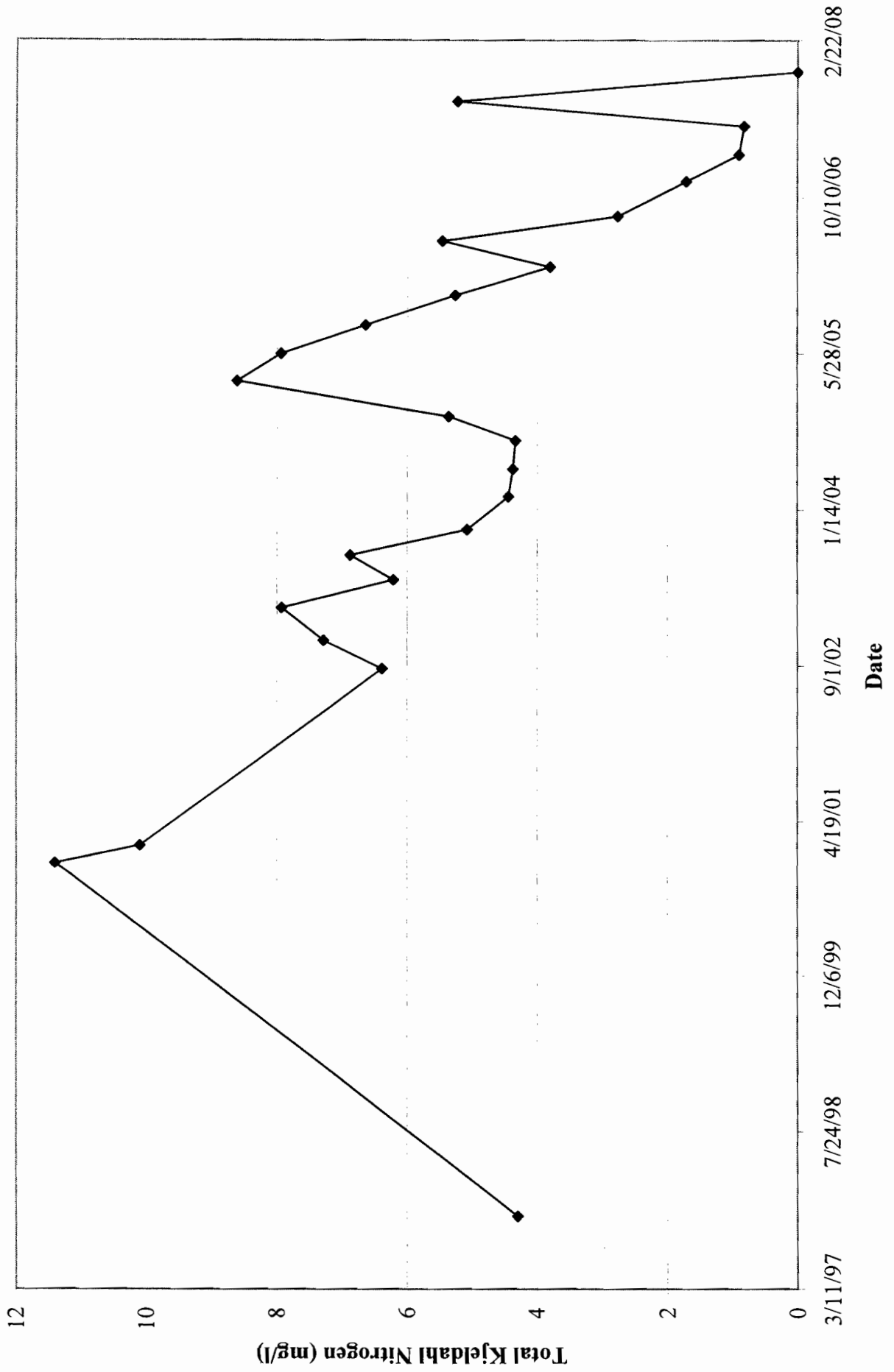
TOTAL ORGANIC CARBON IN MW-04I



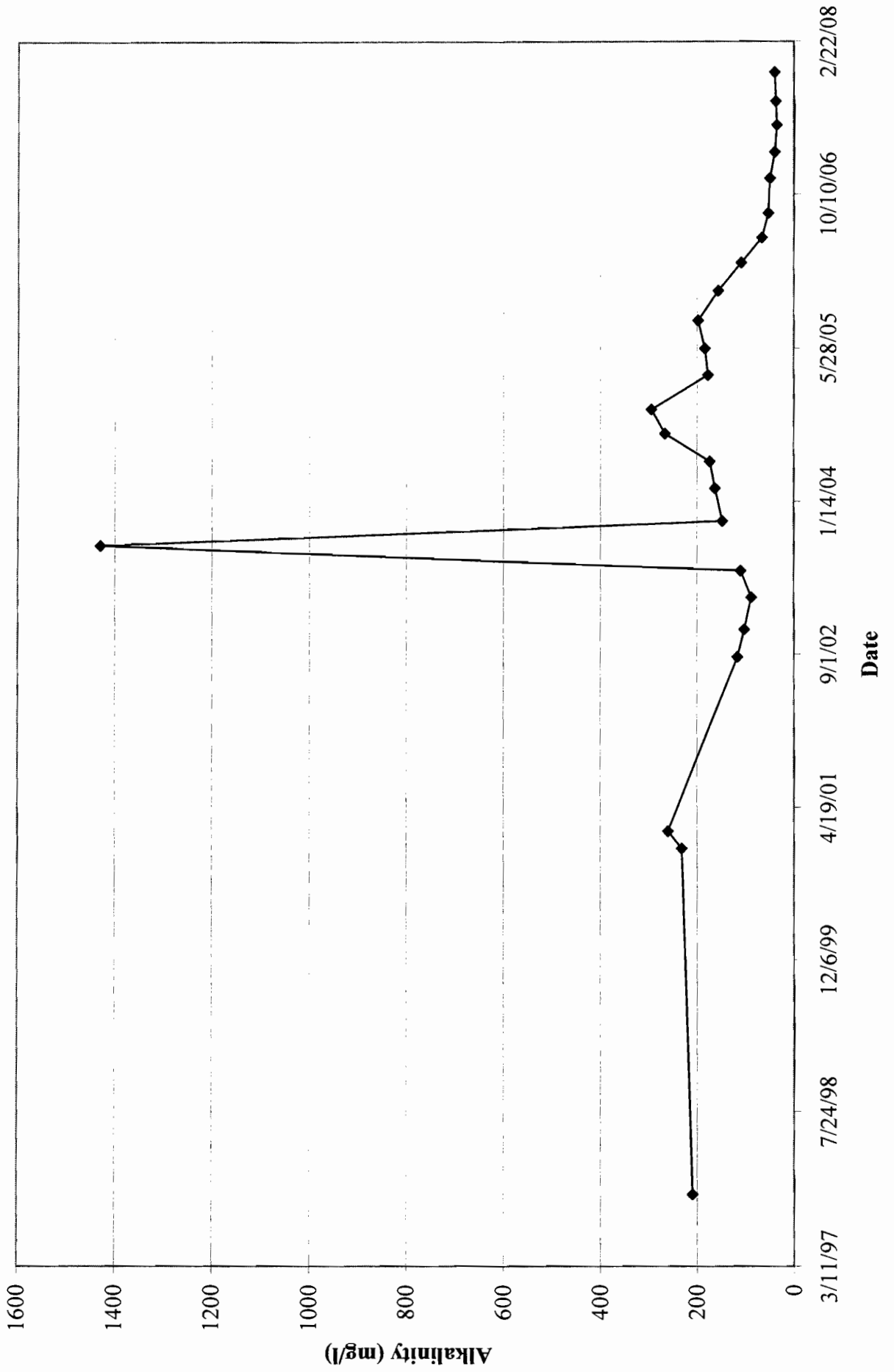
TOTAL DISSOLVED SOLIDS IN MW-04I



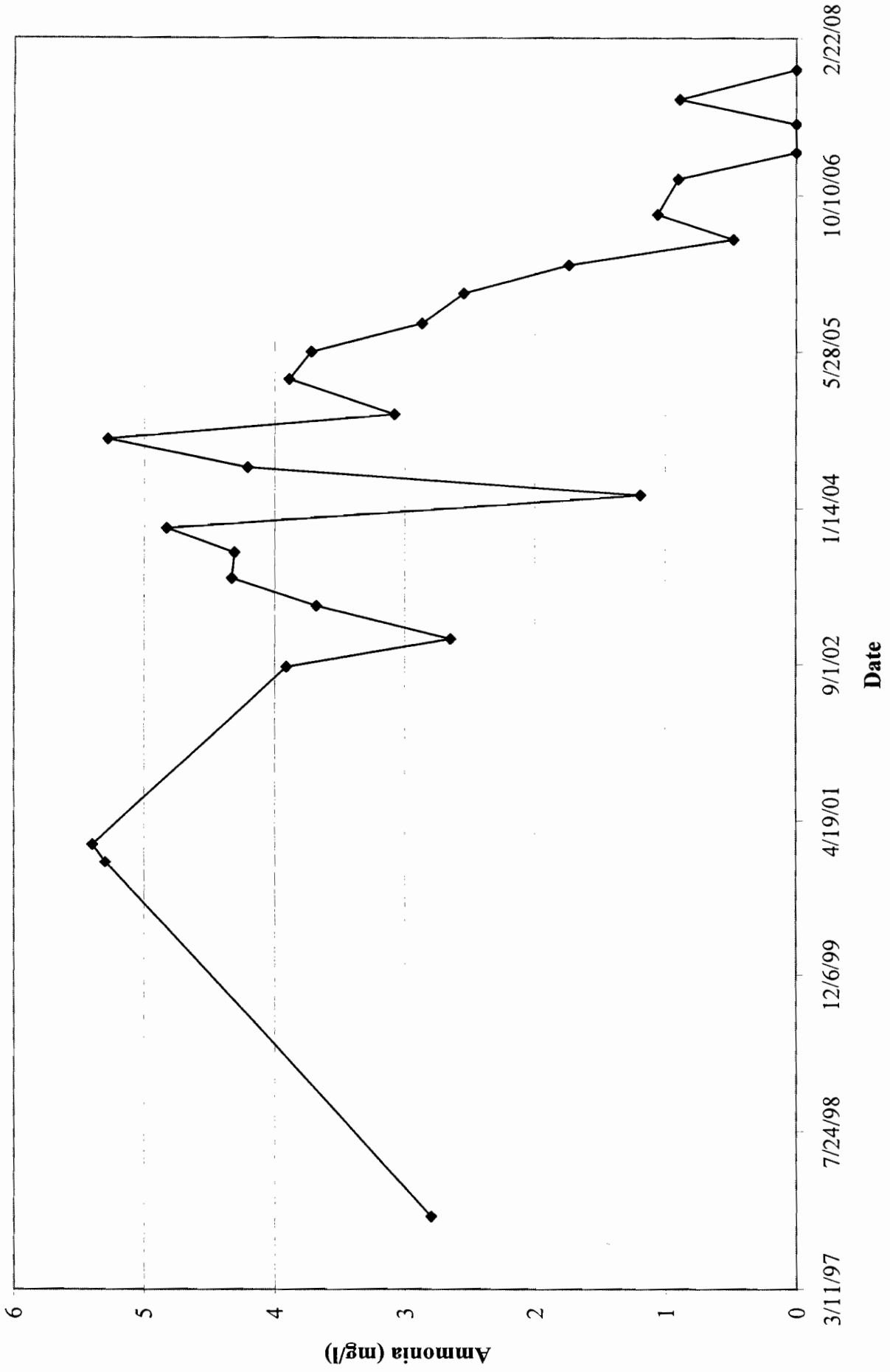
TOTAL KJELDAHL NITROGEN IN MW-04I



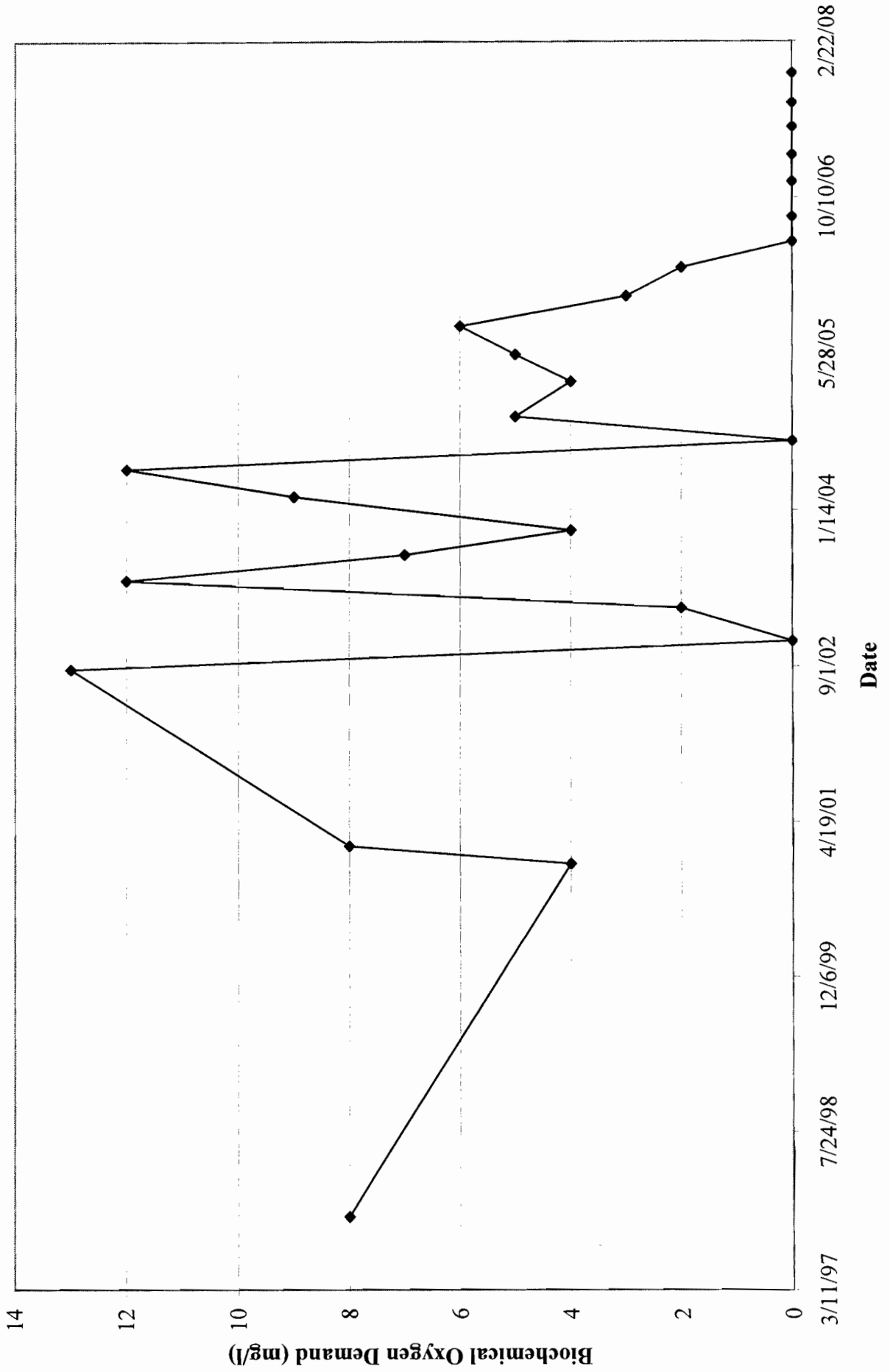
ALKALINITY IN MW-04D



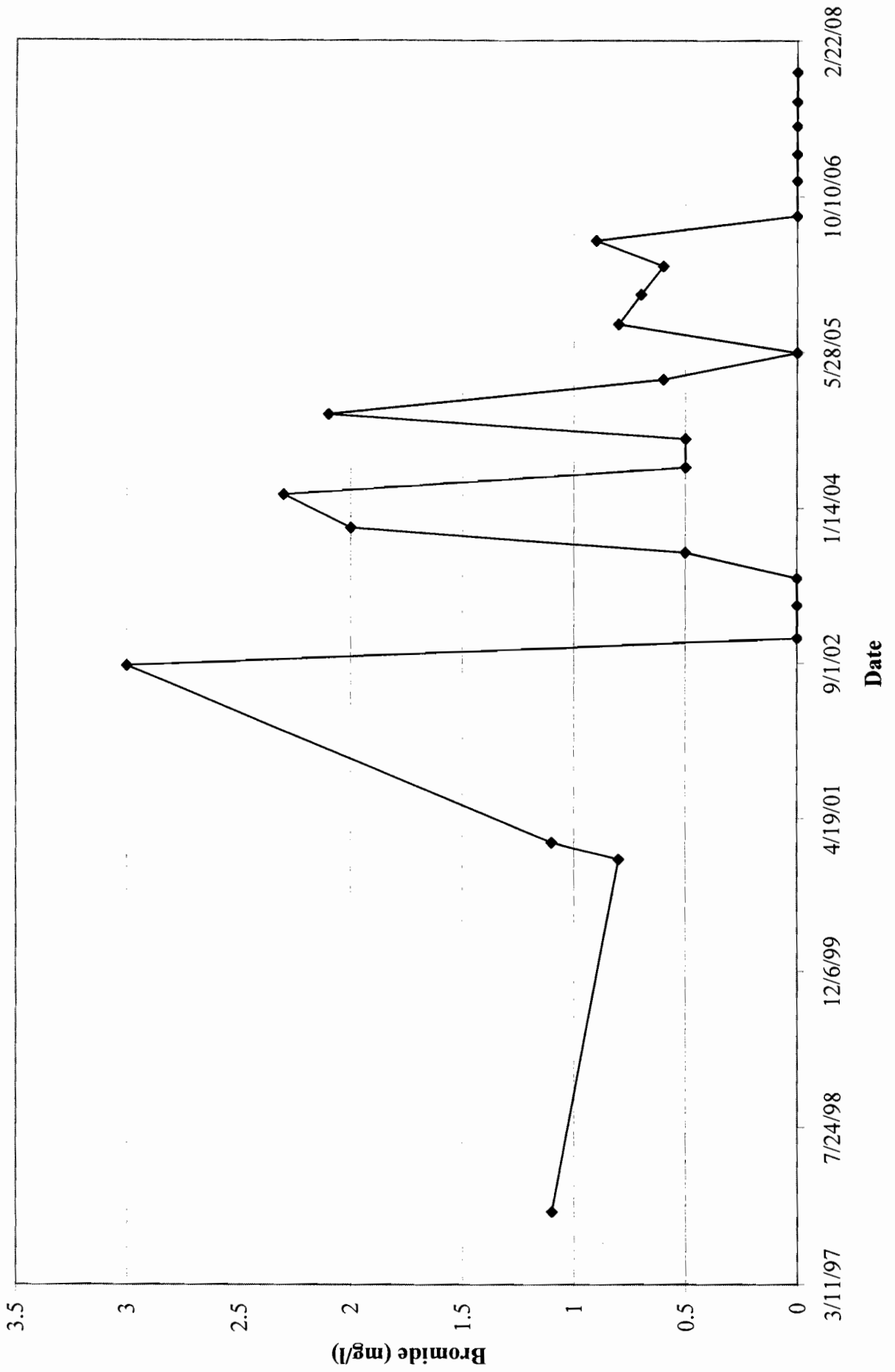
AMMONIA IN MW-04D



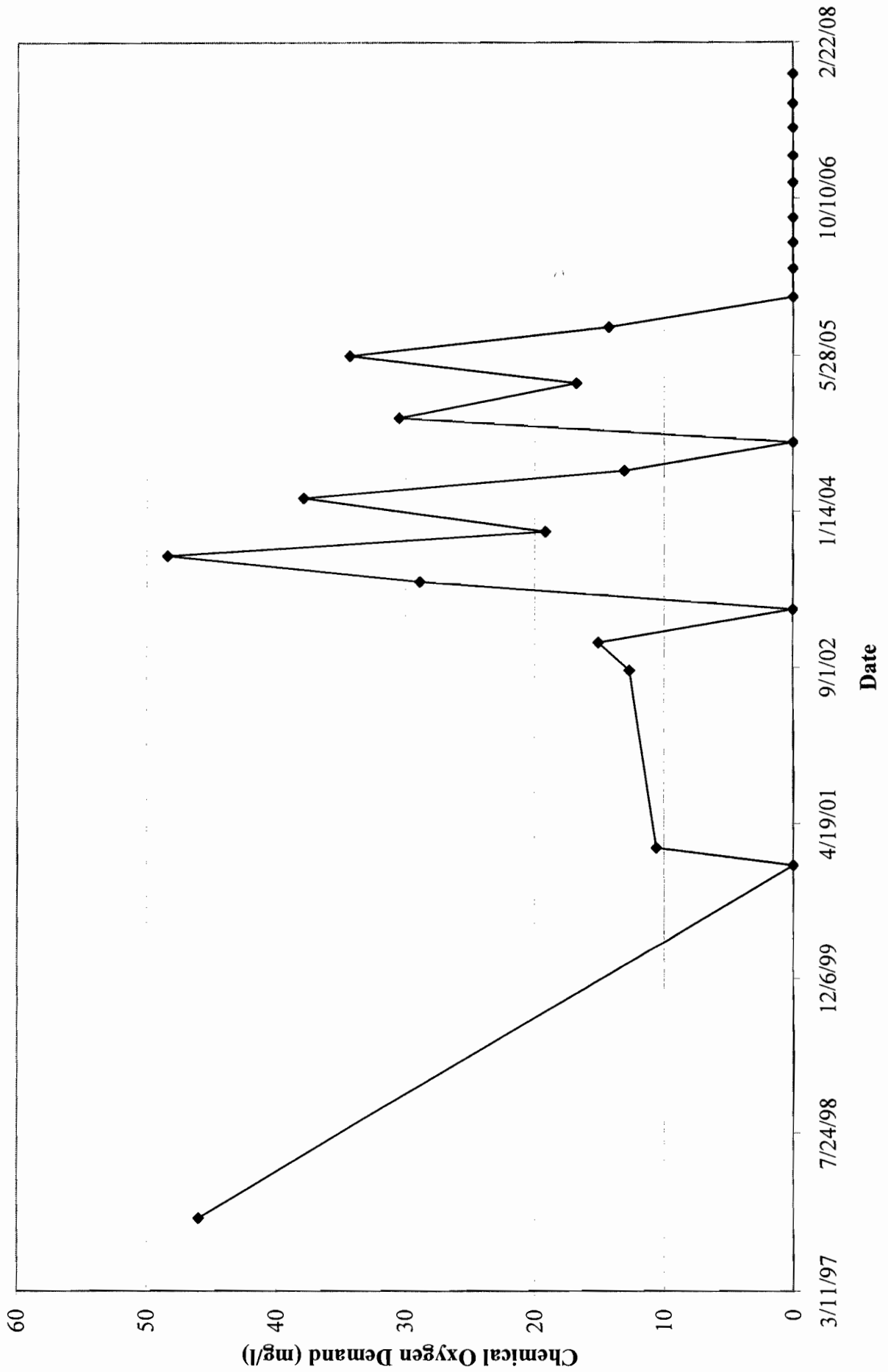
BIOCHEMICAL OXYGEN DEMAND IN MW-04D



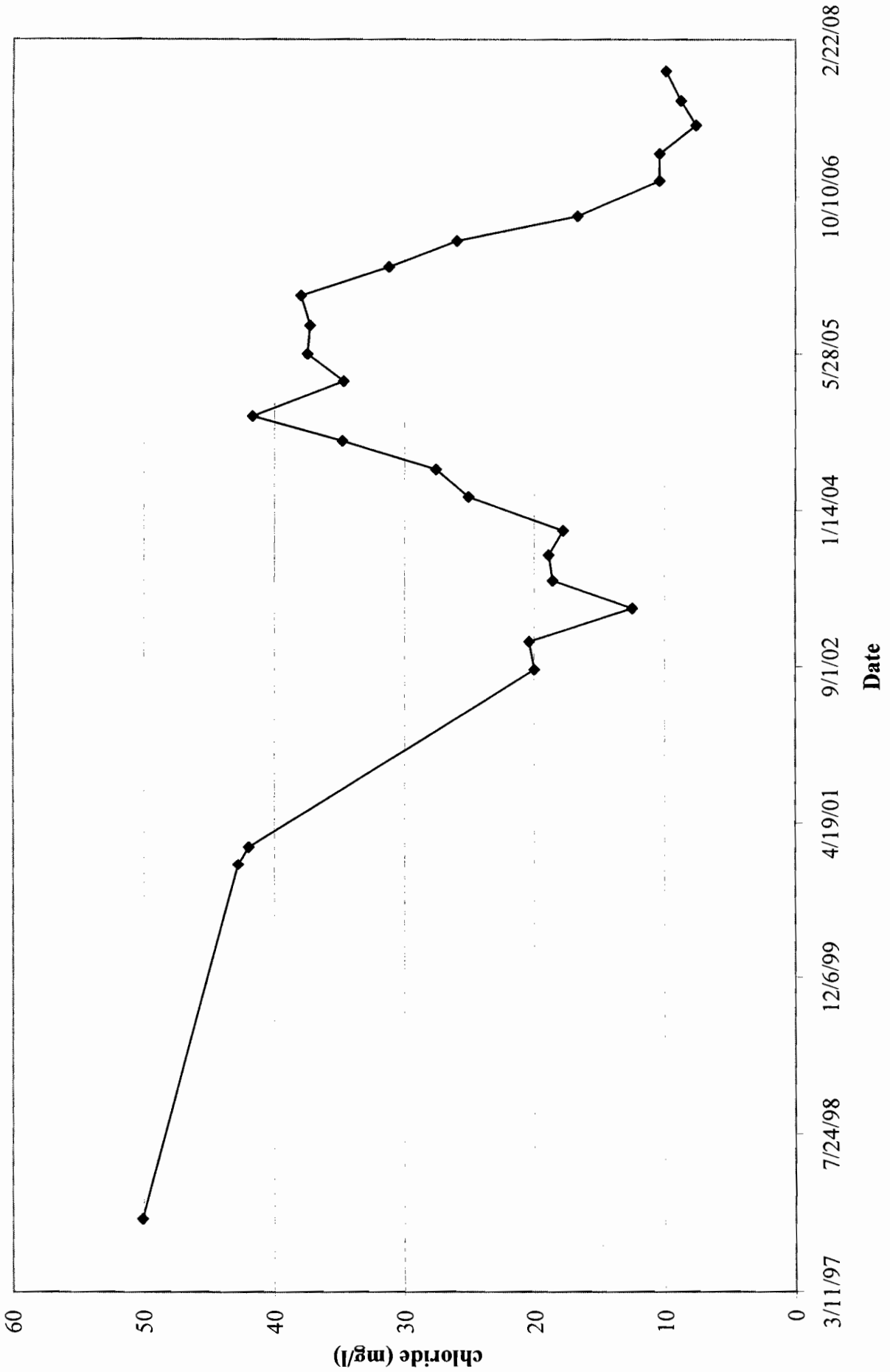
BROMIDE IN MW-04D



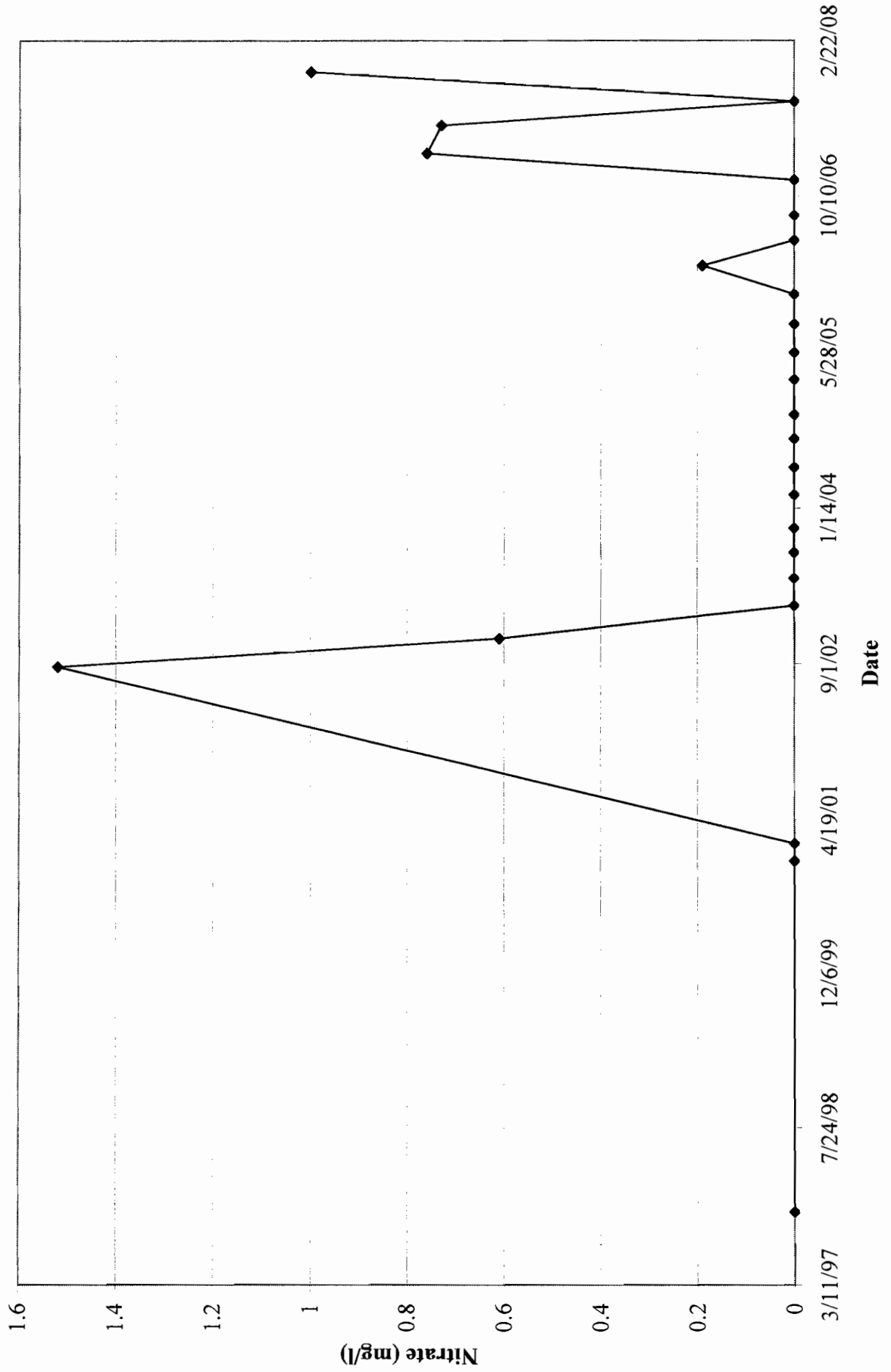
CHEMICAL OXYGEN DEMAND IN MW-04D



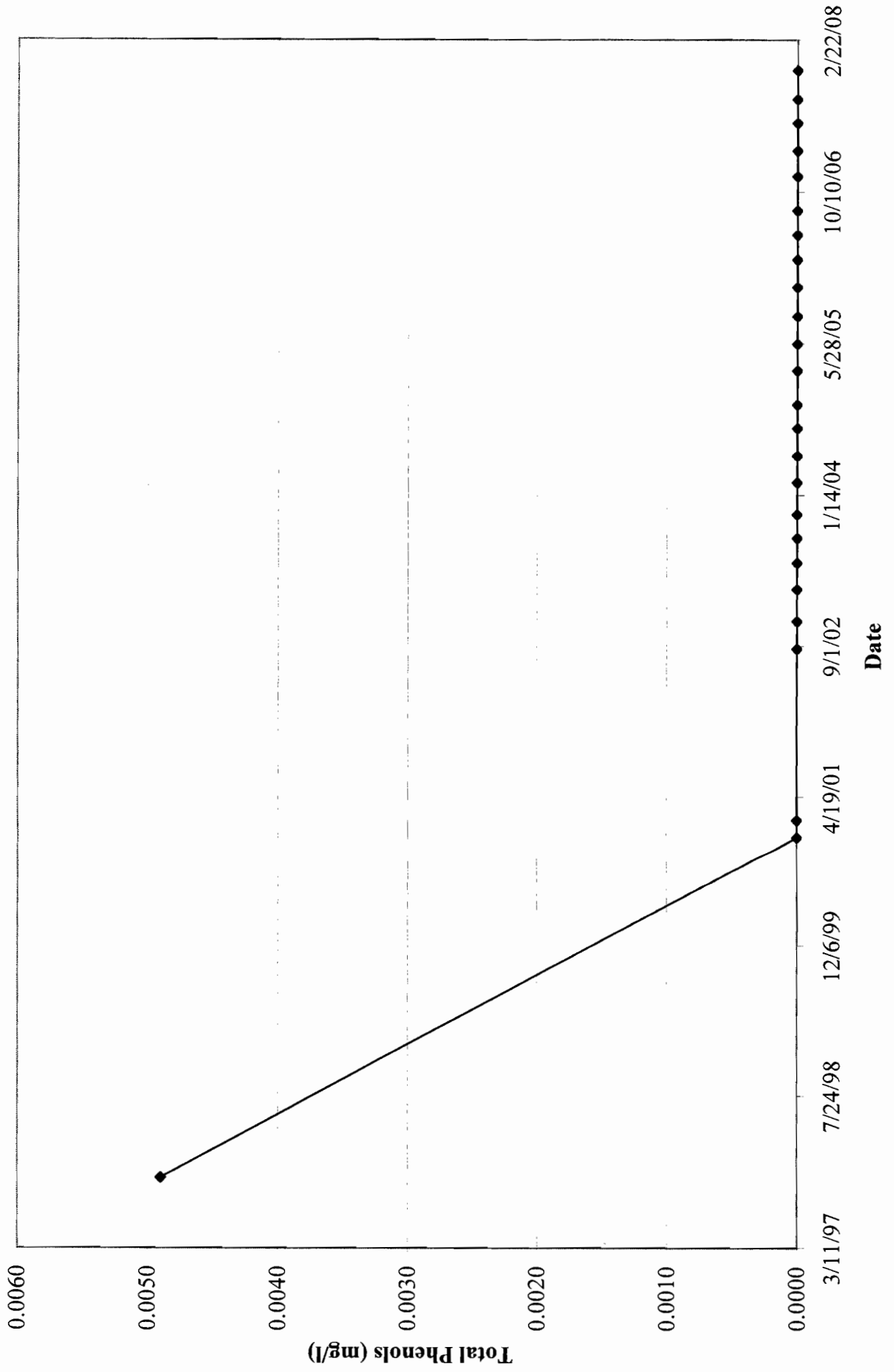
CHLORIDE IN MW-04D



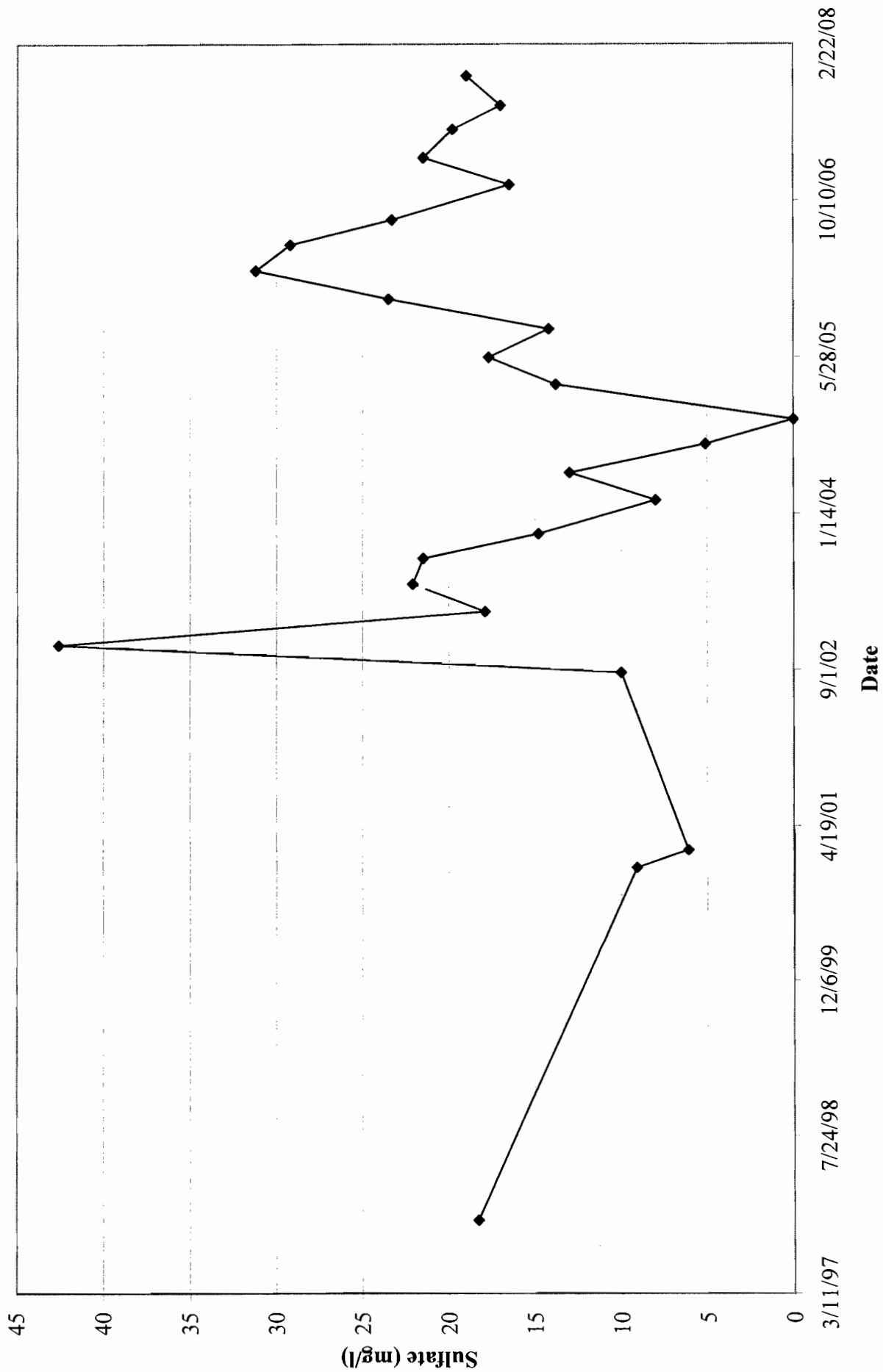
NITRATE IN MW-04D



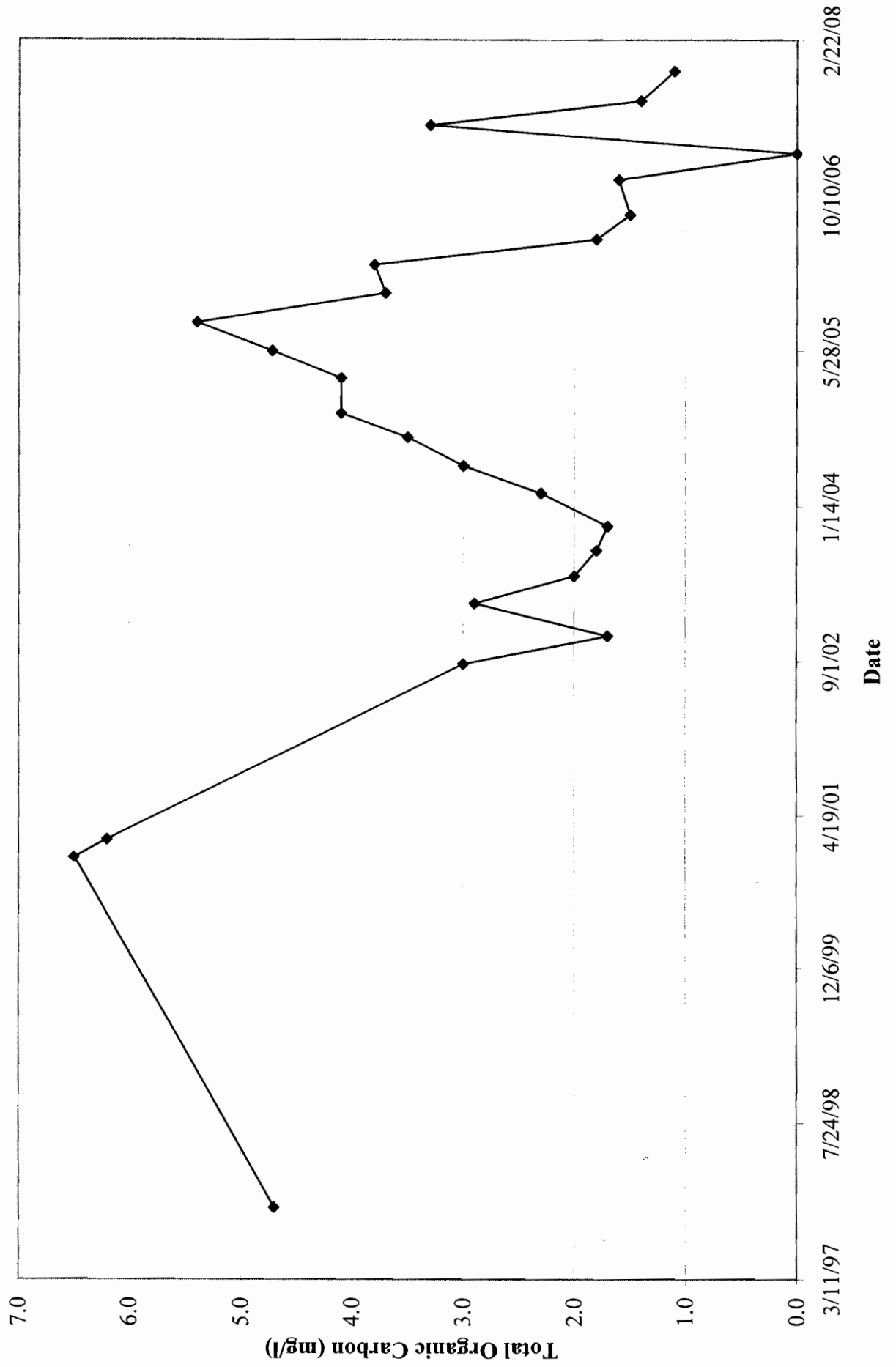
TOTAL PHENOLS IN MW-04D



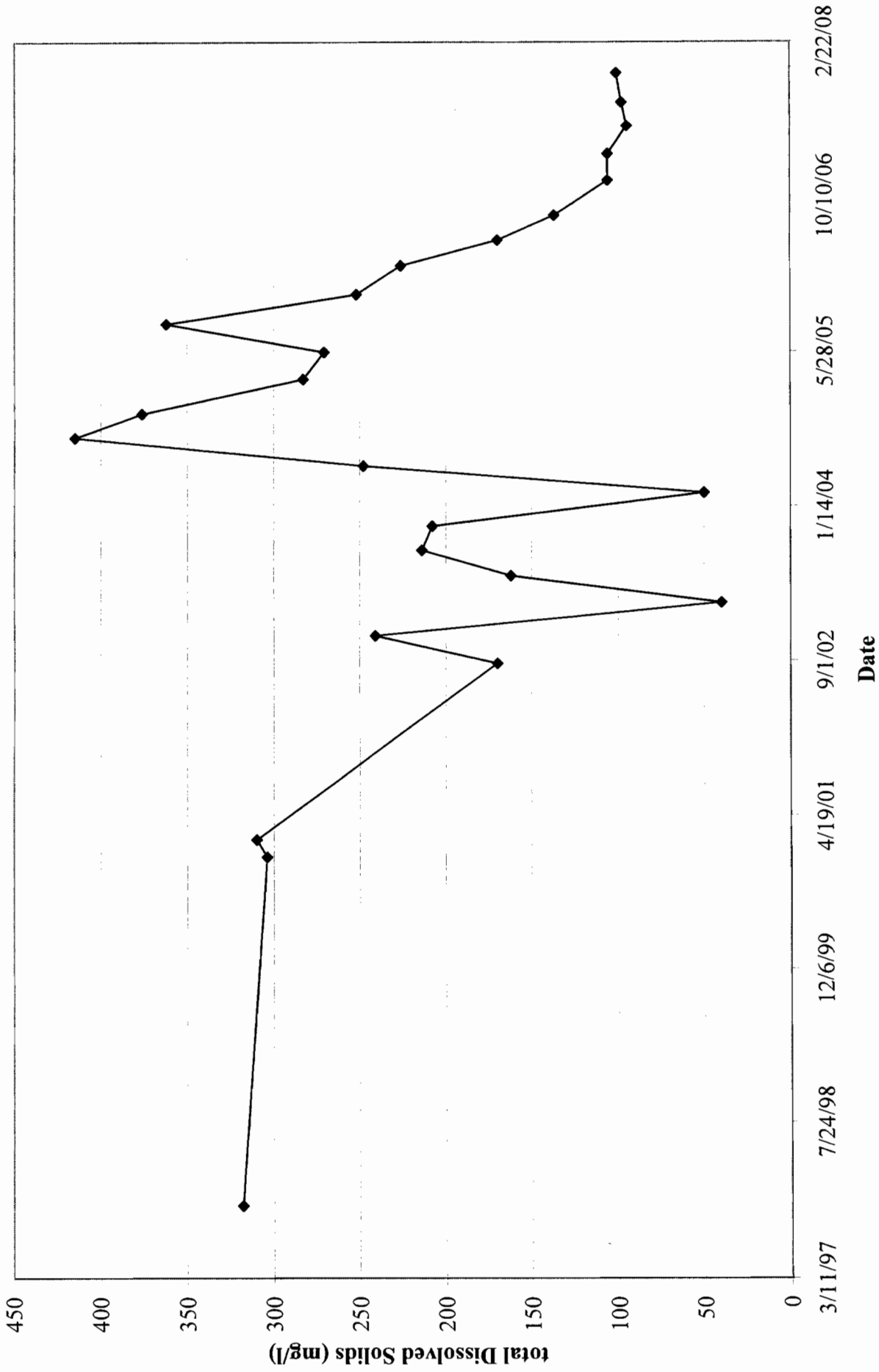
SULFATE IN MW-04D



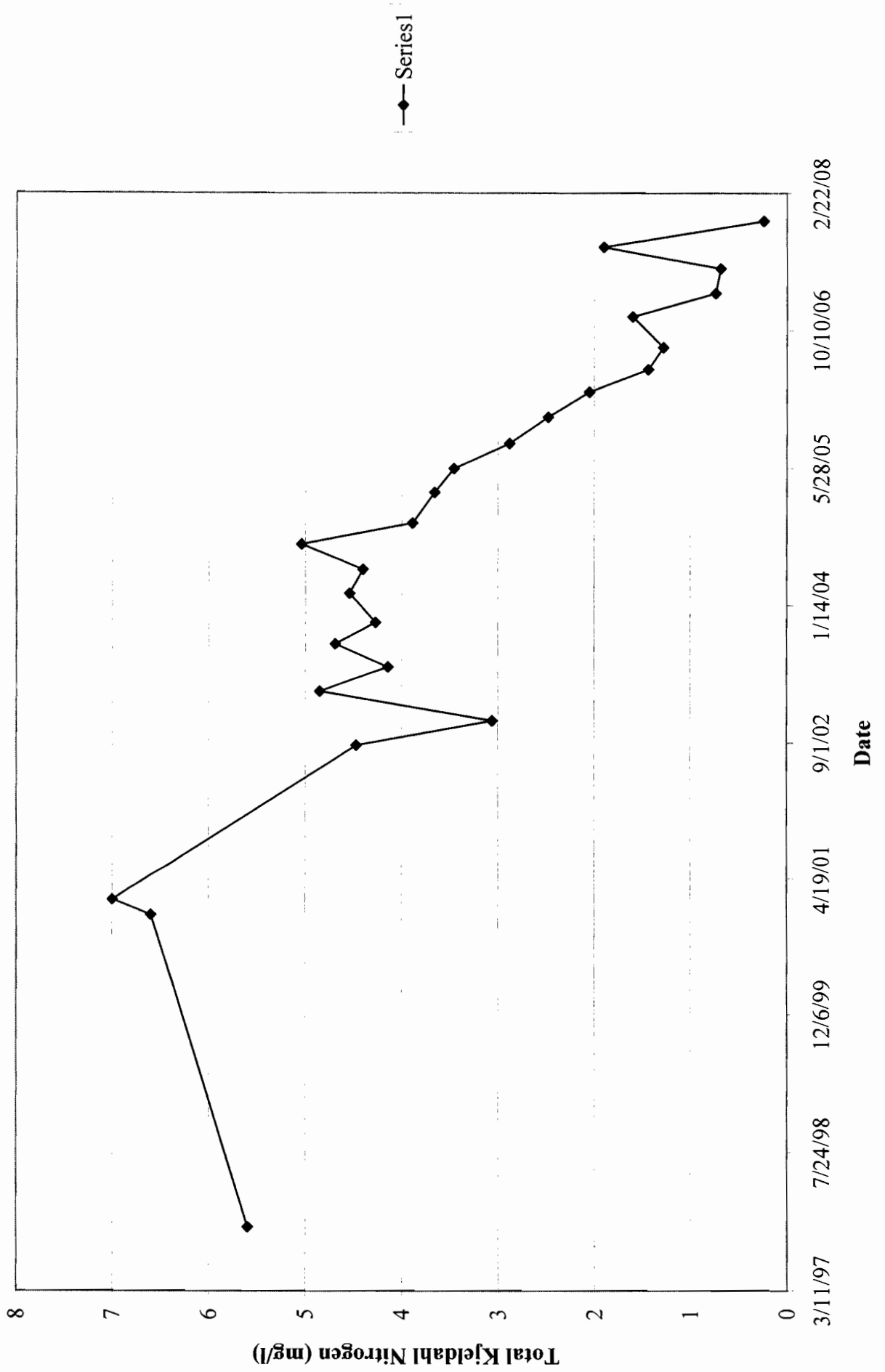
TOTAL ORGANIC CARBON IN MW-04D



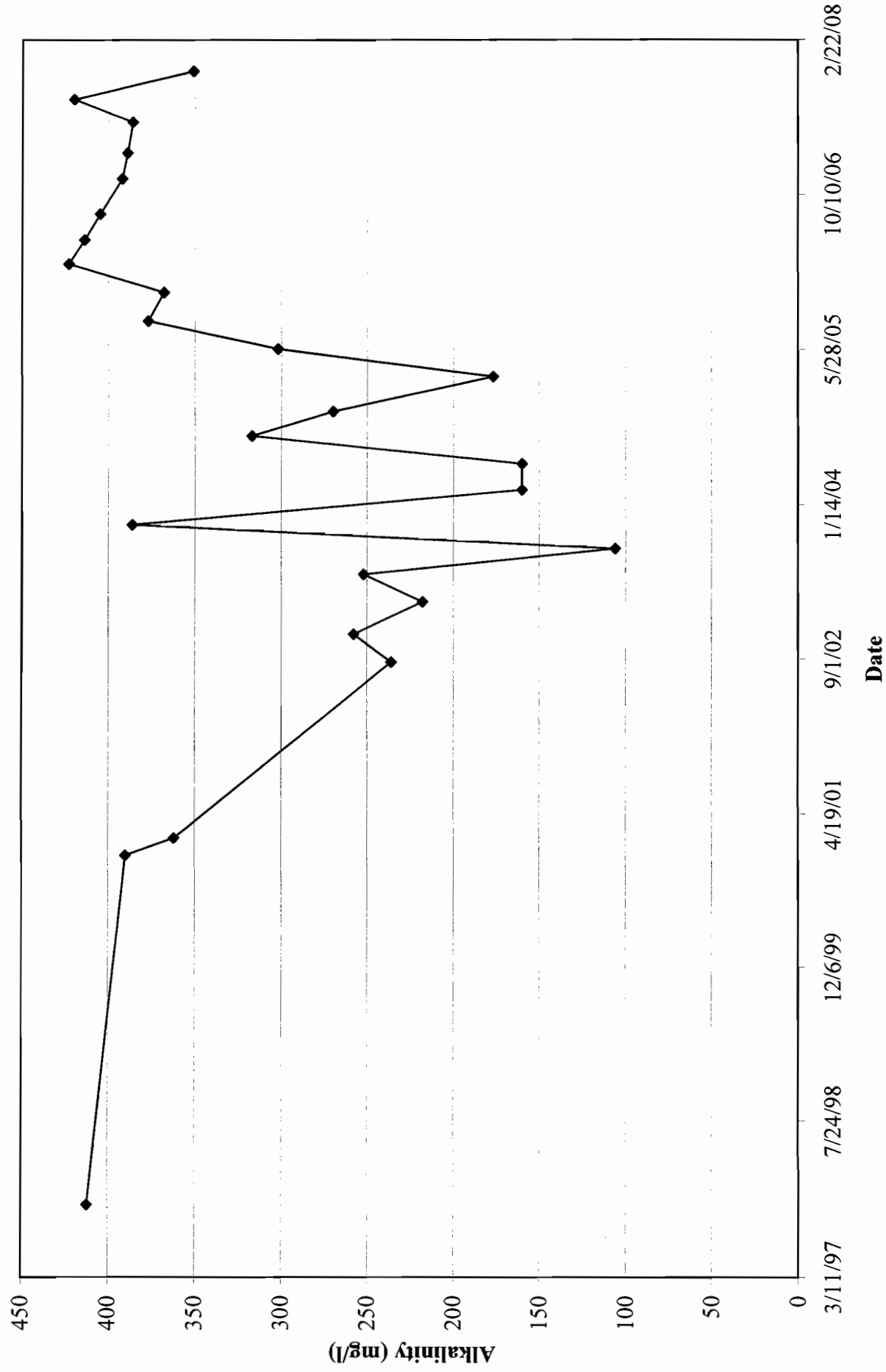
TOTAL DISSOLVED SOLIDS IN MW-04D



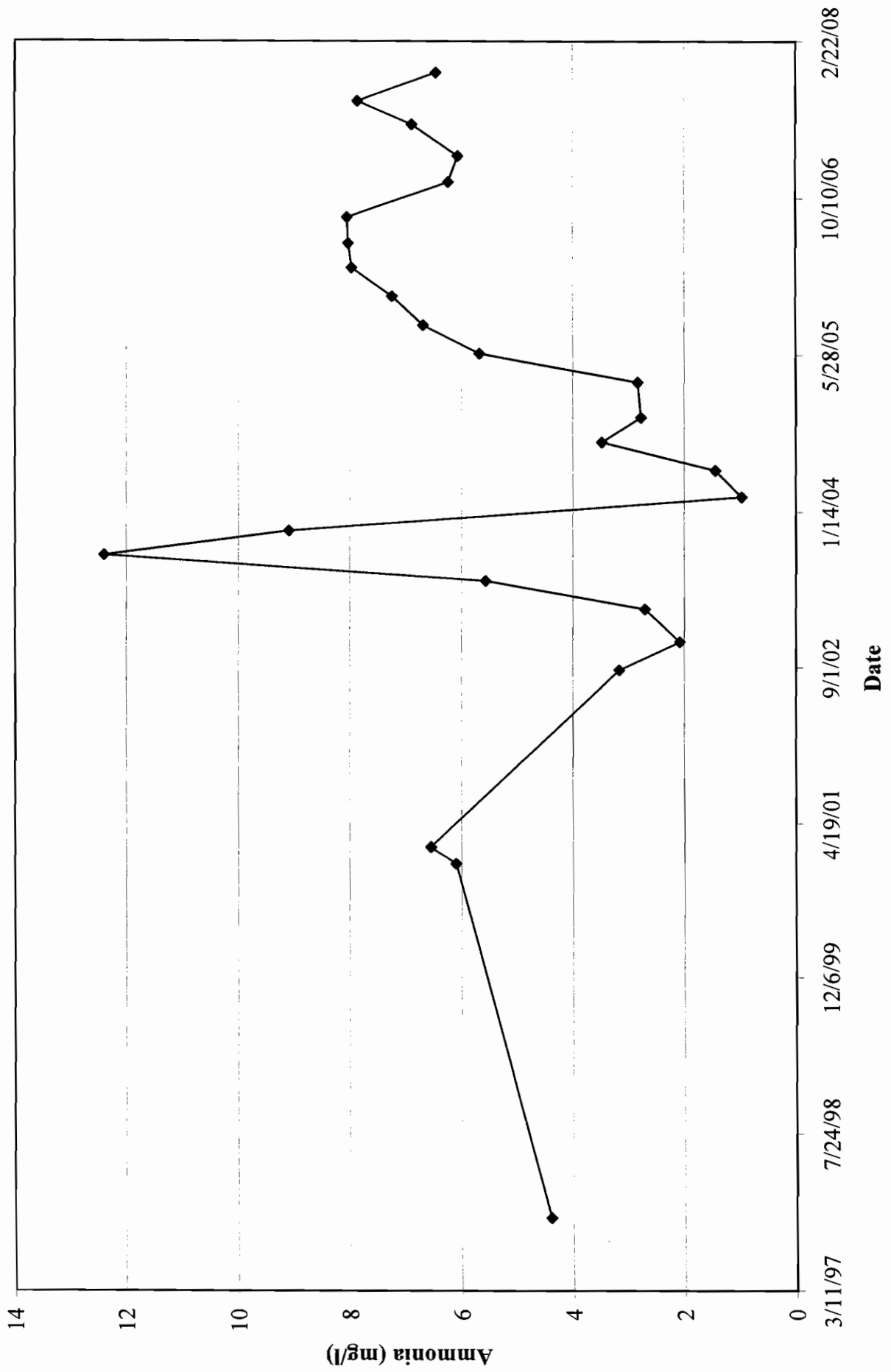
TOTAL KJELDAHL NITROGEN IN MW-04D



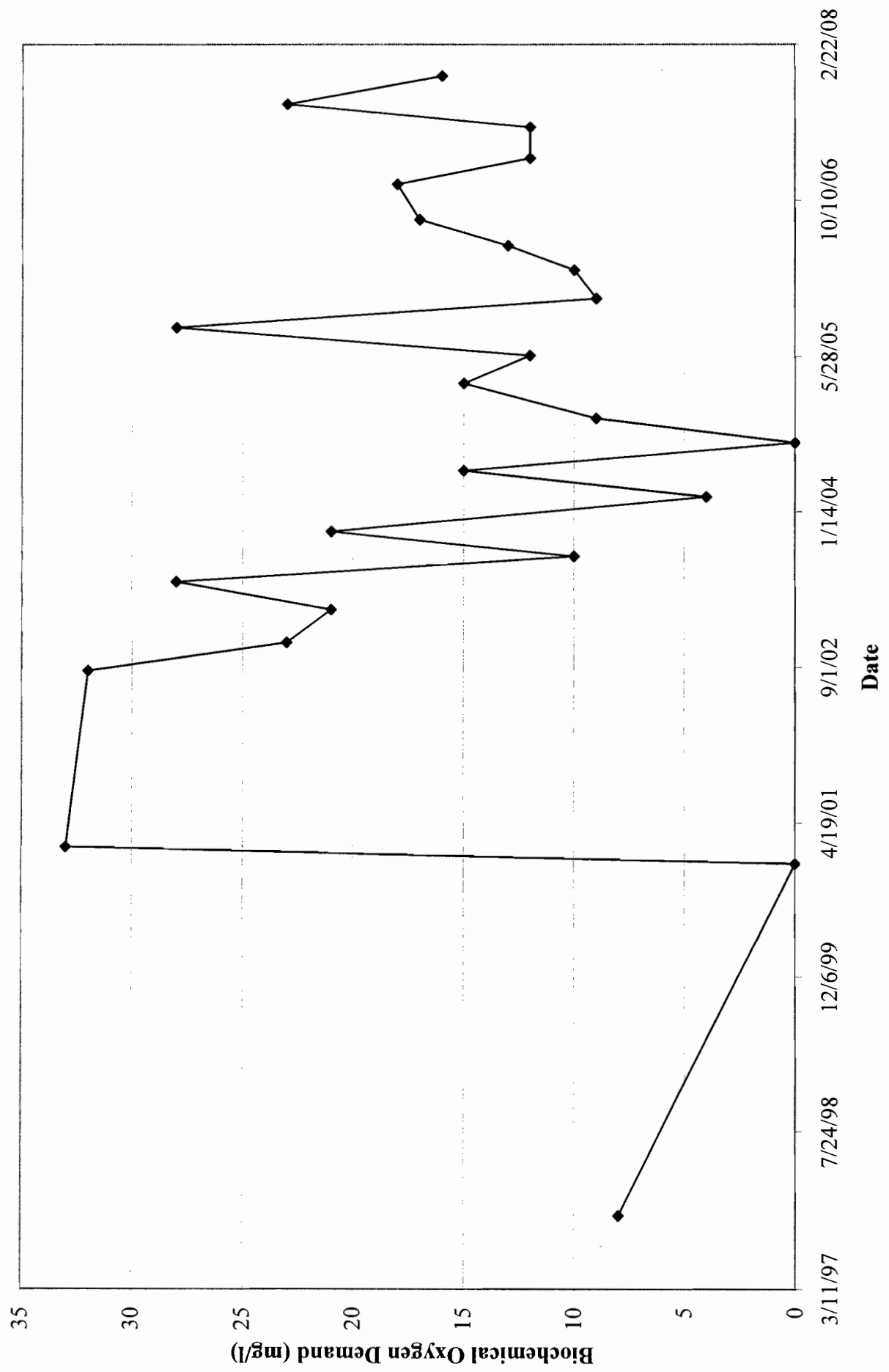
ALKALINITY IN MW-05S



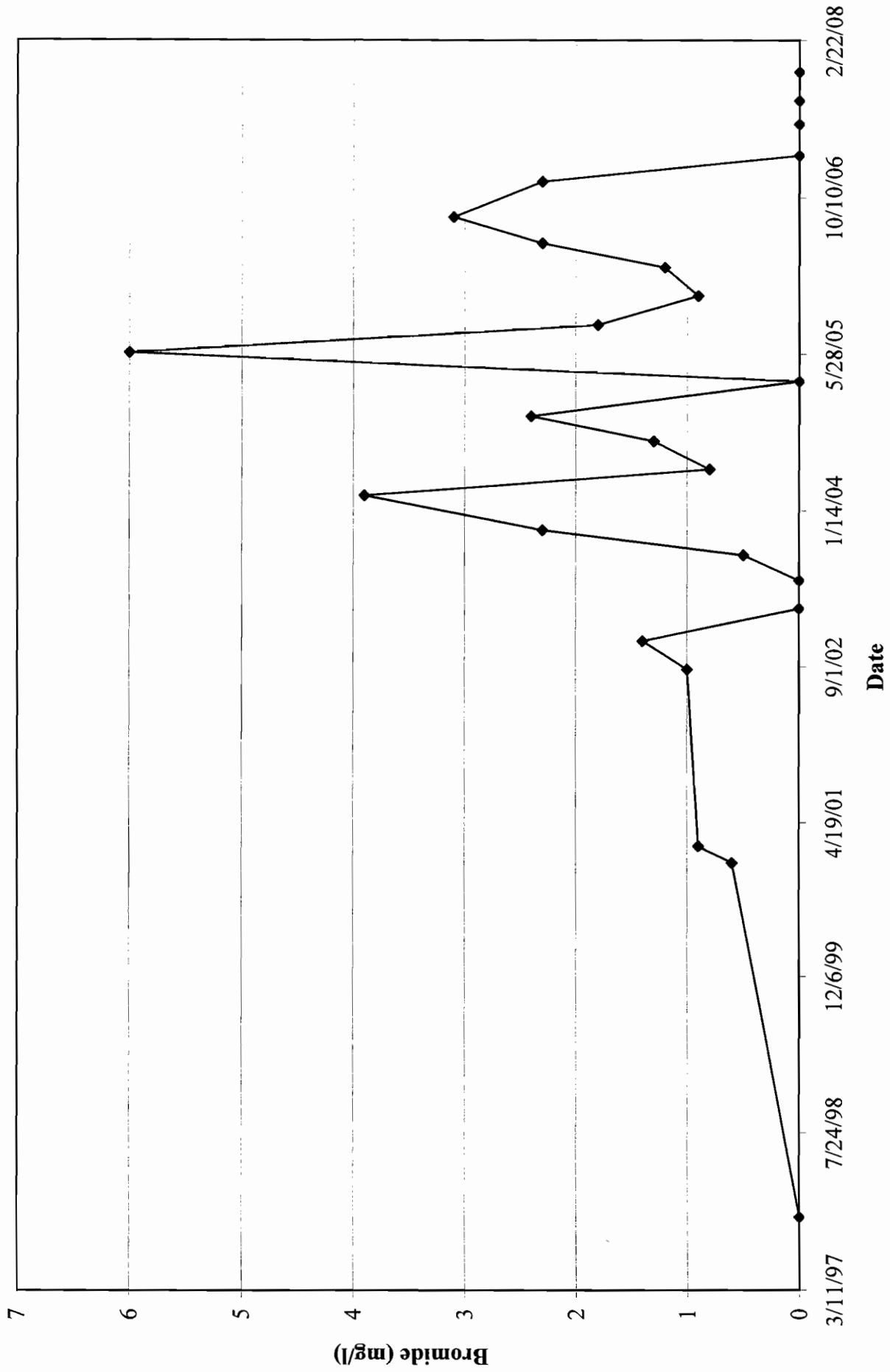
AMMONIA IN MW-05S



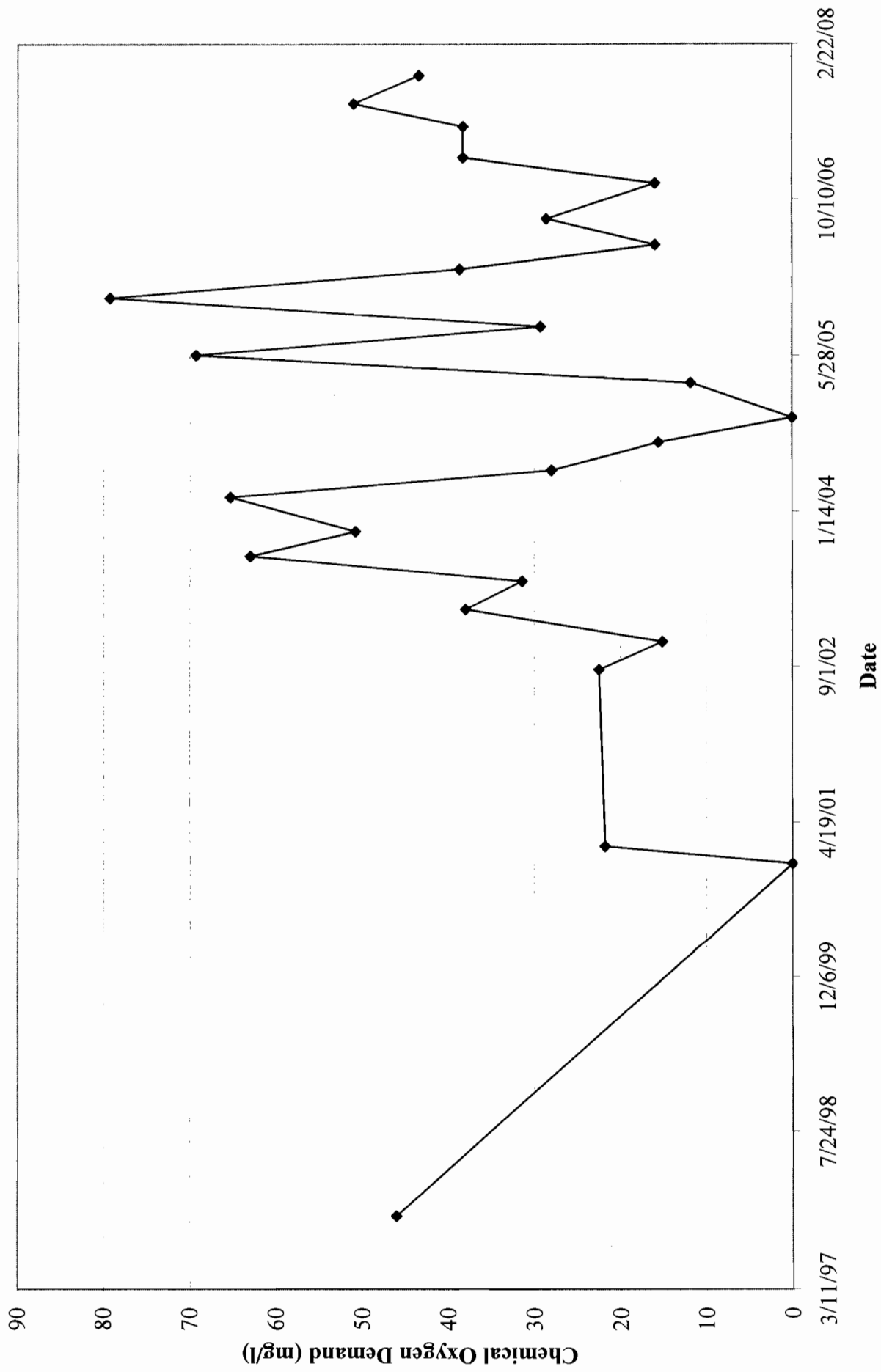
BIOCHEMICAL OXYGEN DEMAND IN MW-05S



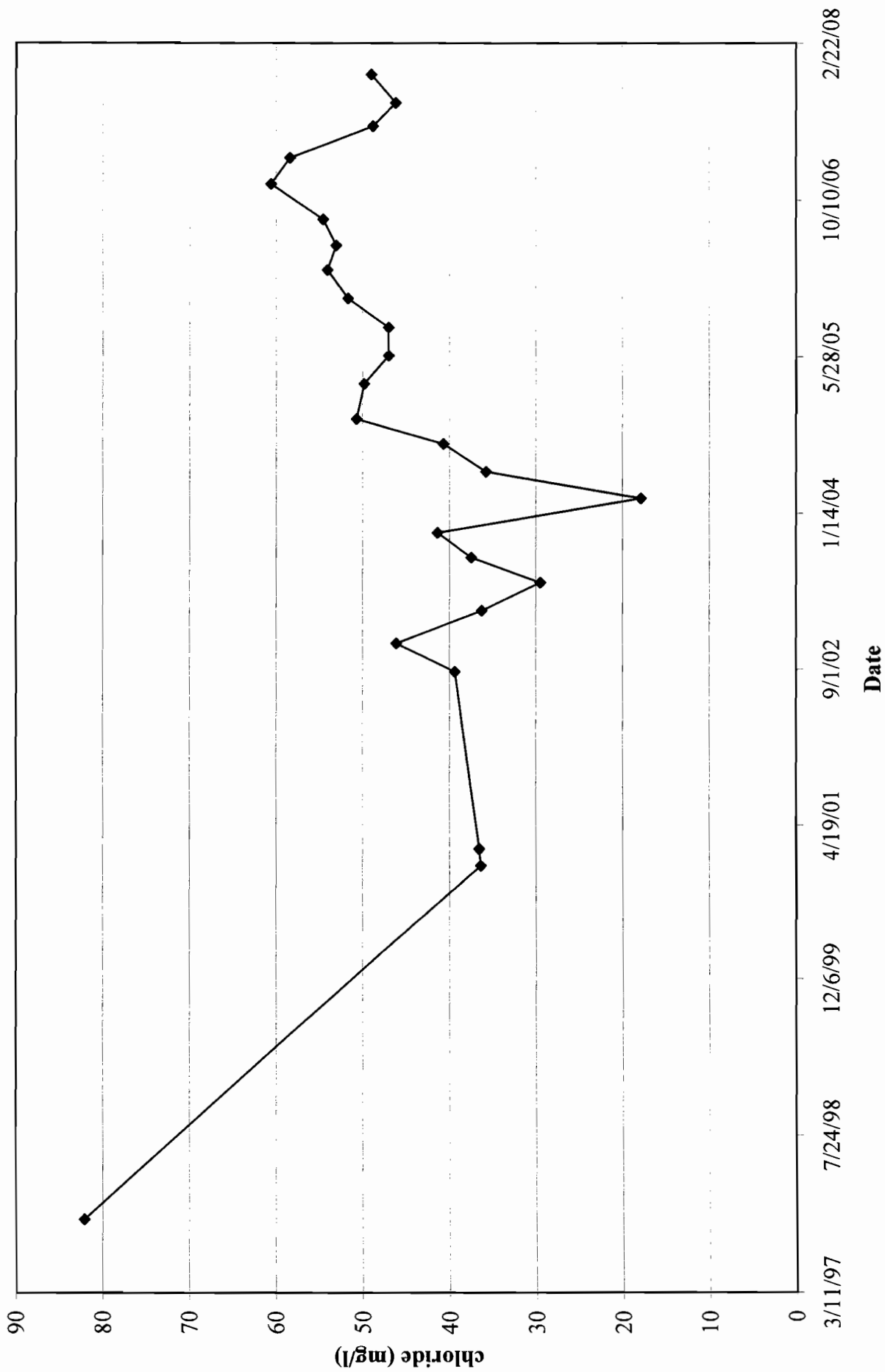
BROMIDE IN MW-05S



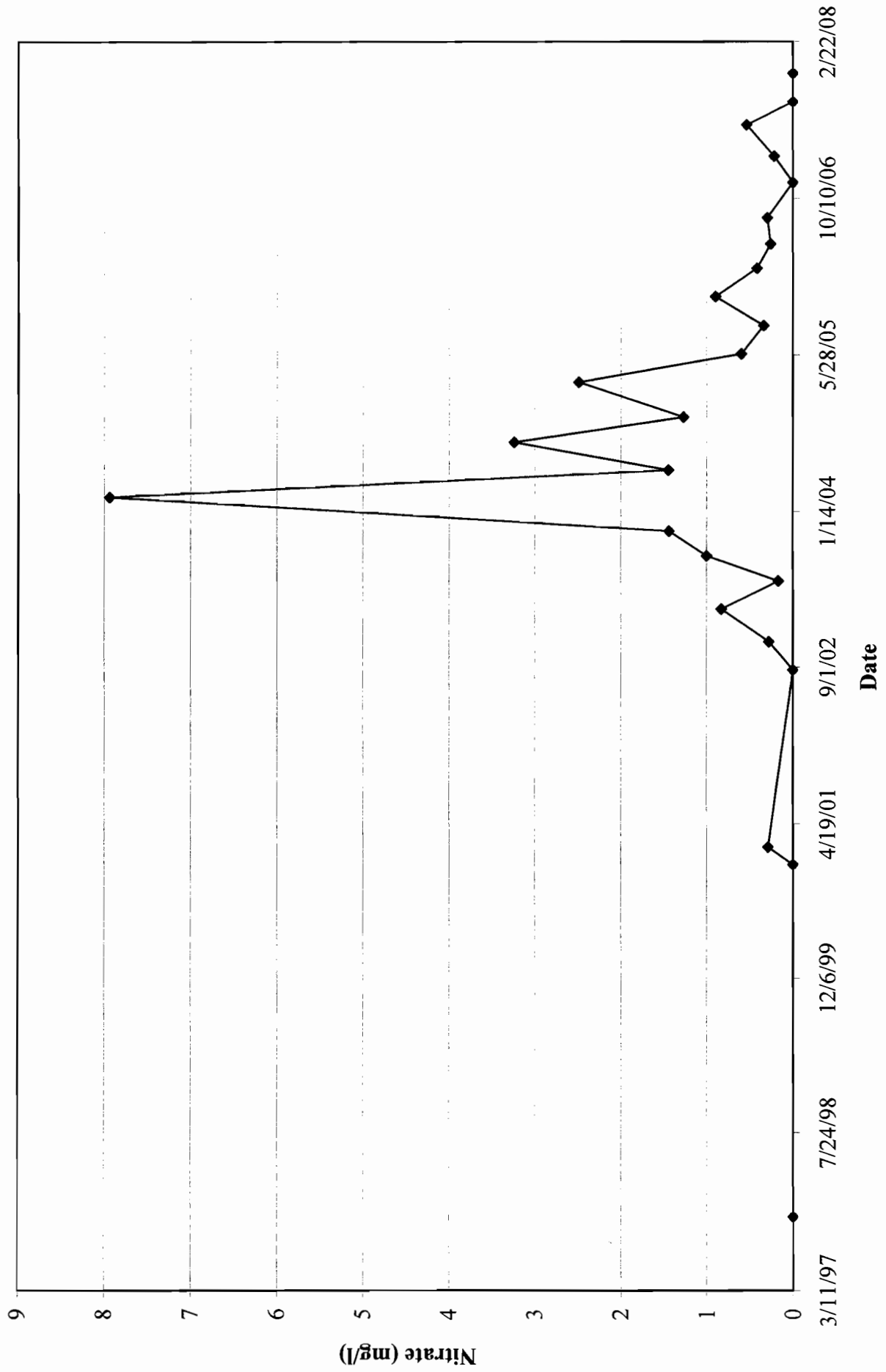
CHEMICAL OXYGEN DEMAND IN MW-05S



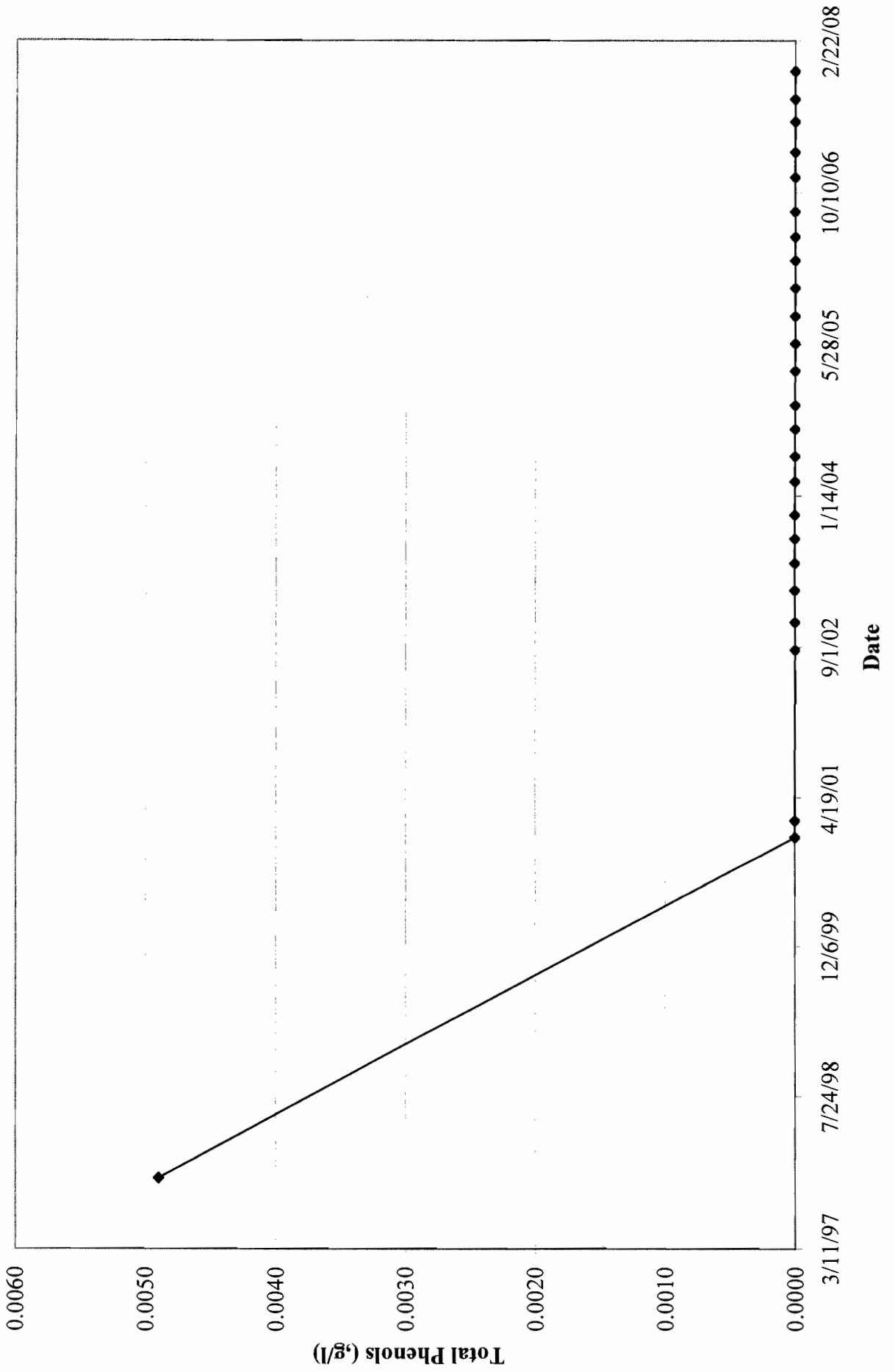
CHLORIDE IN MW-05S



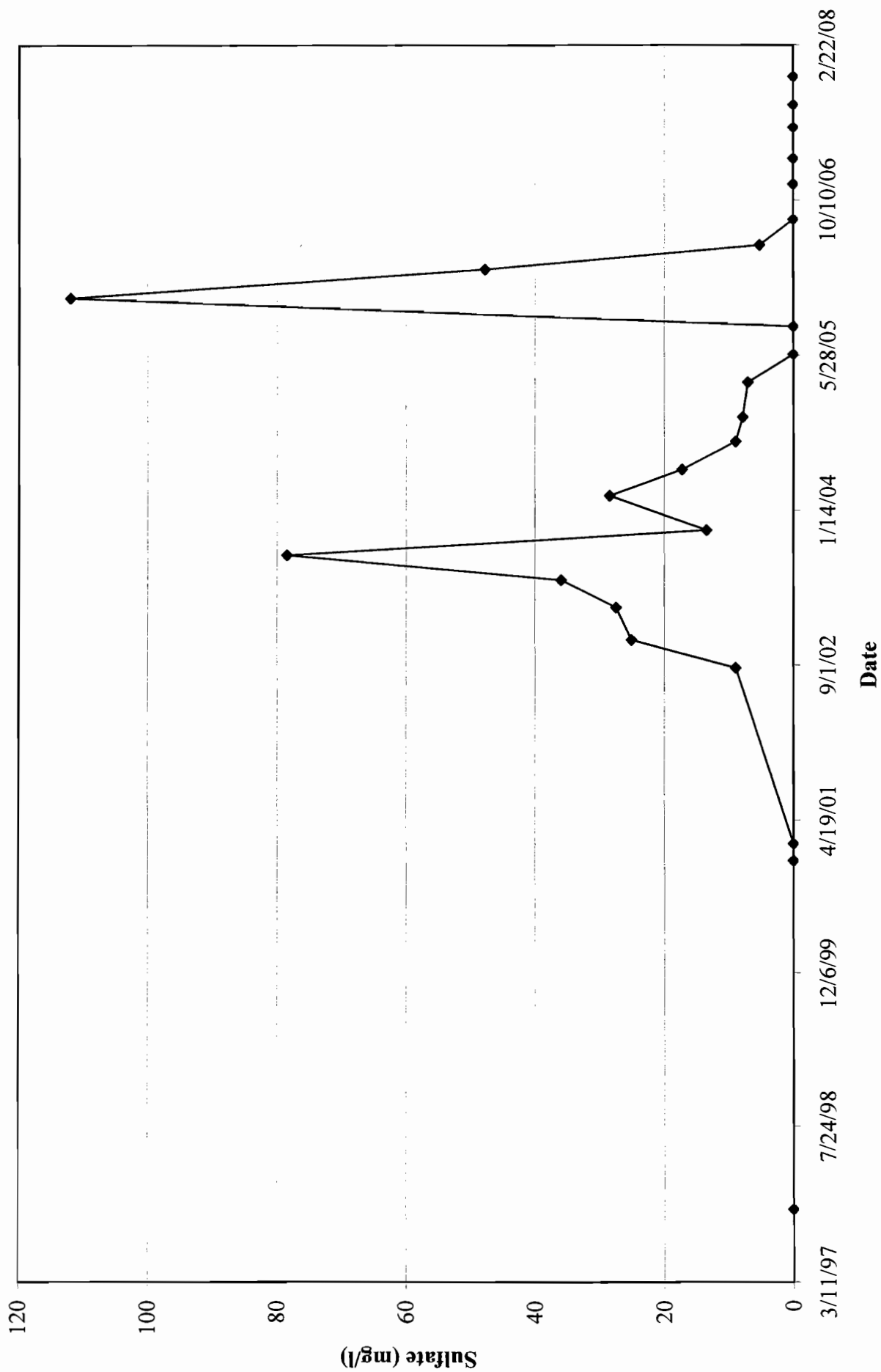
NITRATE IN MW-05S



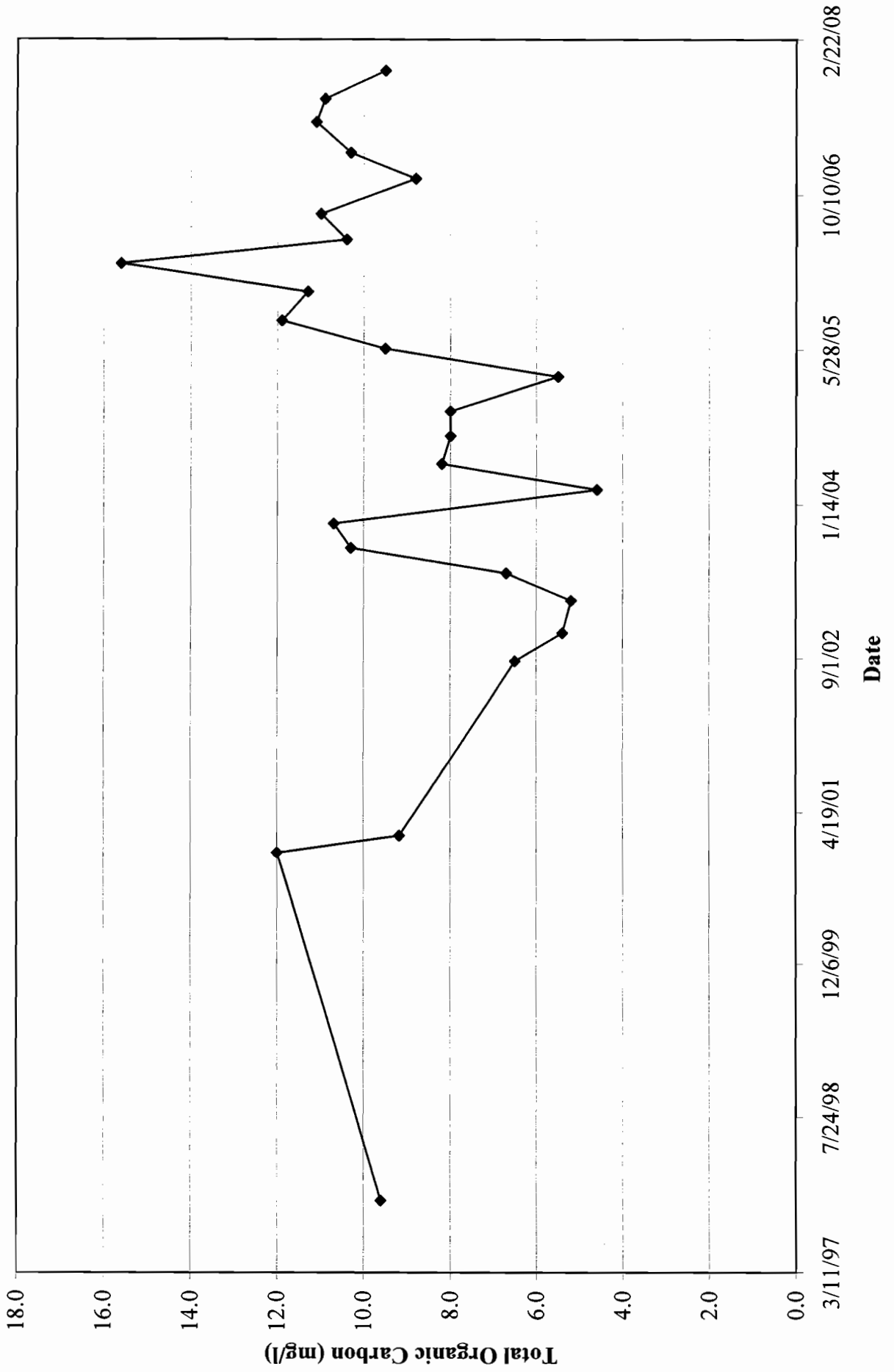
TOTAL PHENOLS IN MW-05S



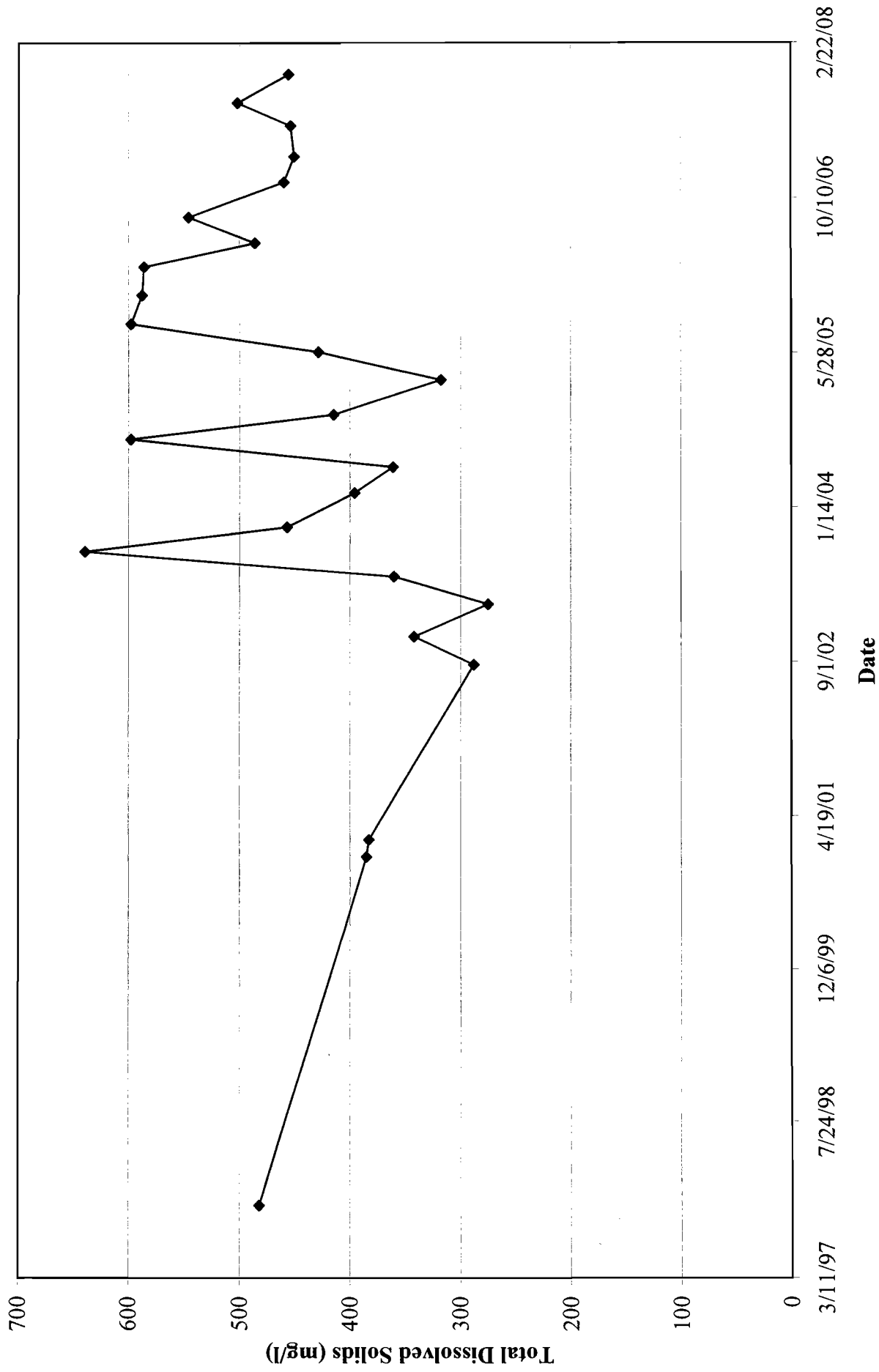
SULFATE IN MW-05S



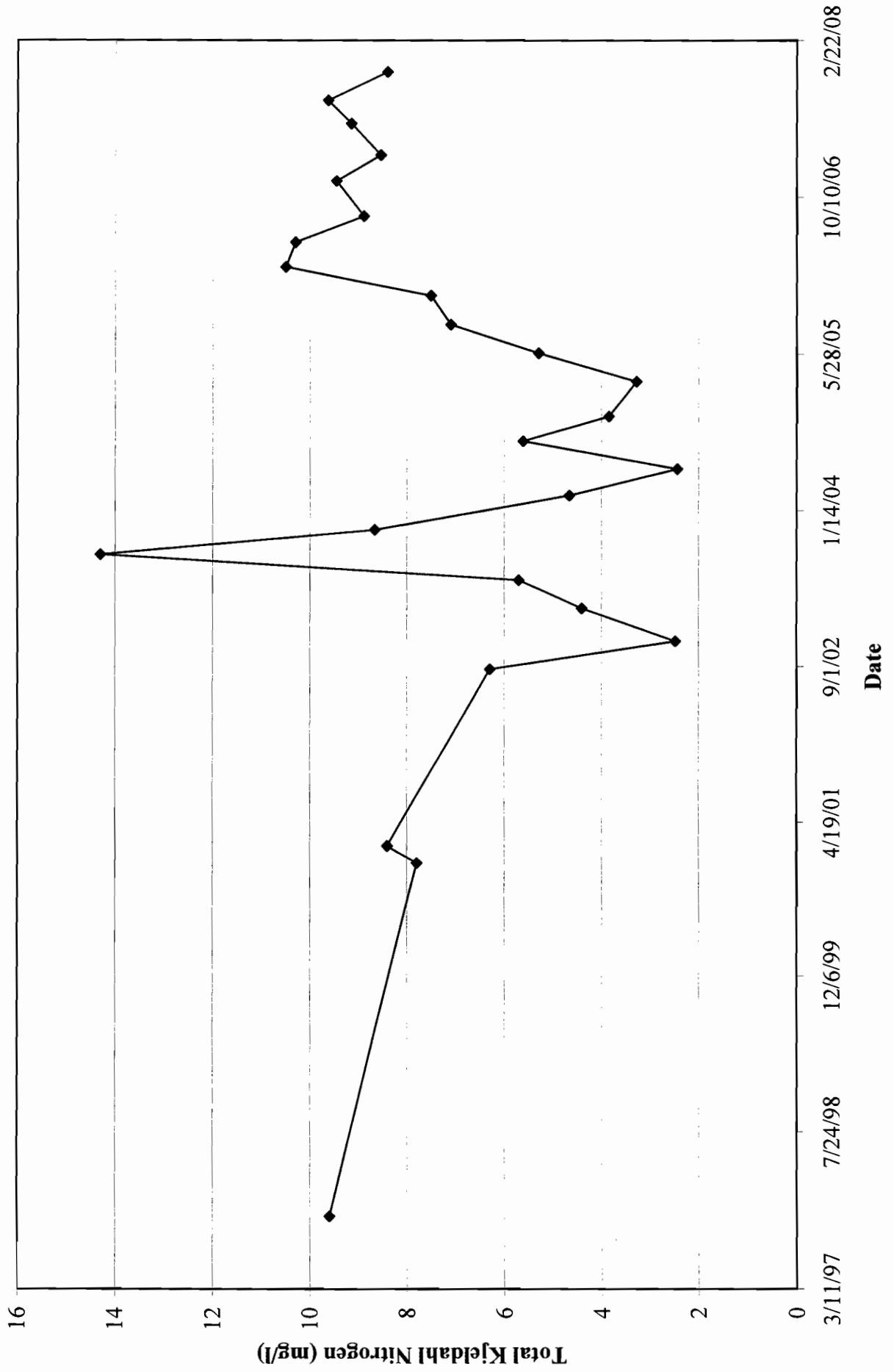
TOTAL ORGANIC CARBON IN MW-05S



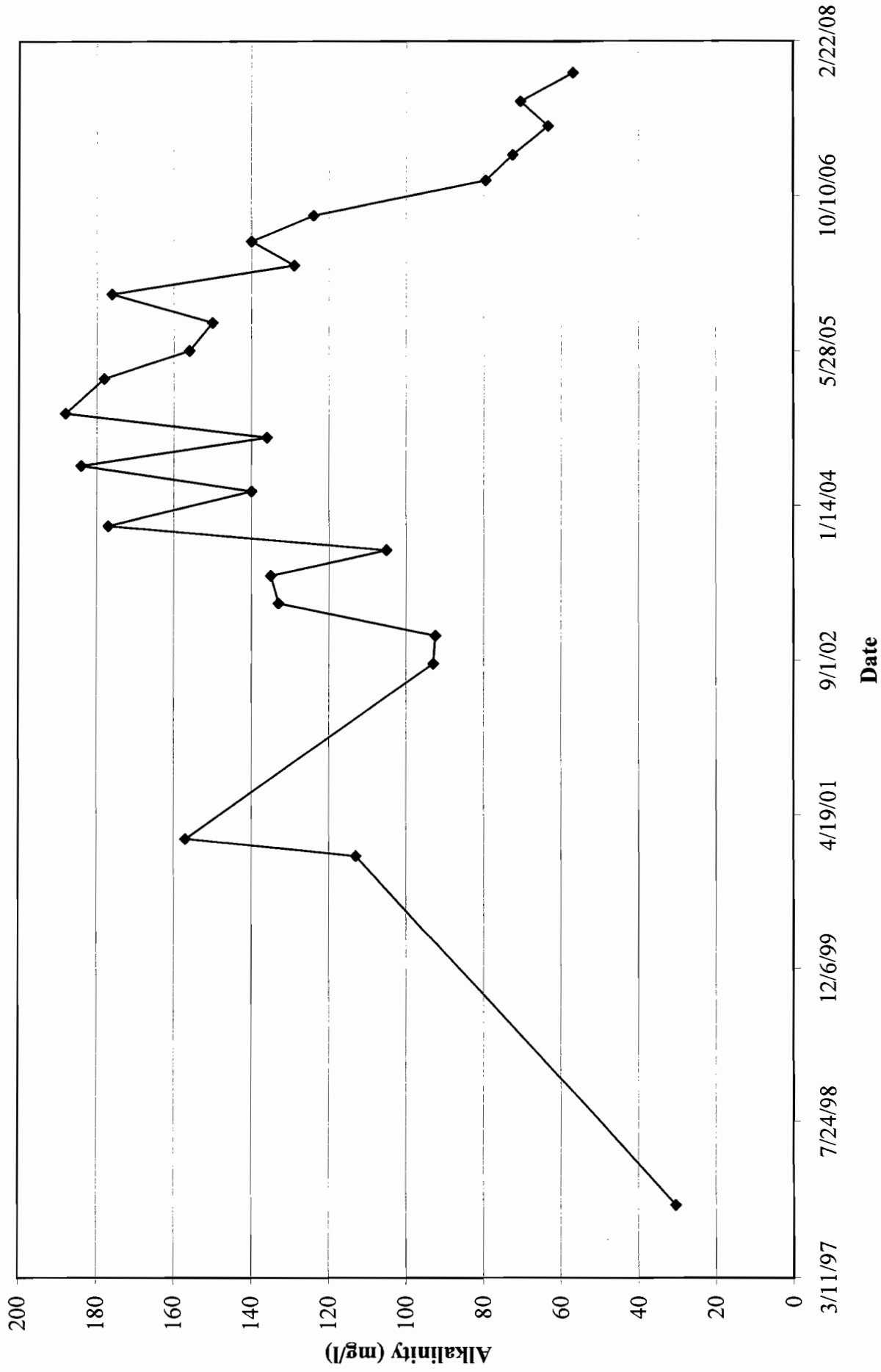
TOTAL DISSOLVED SOLIDS IN MW-05S



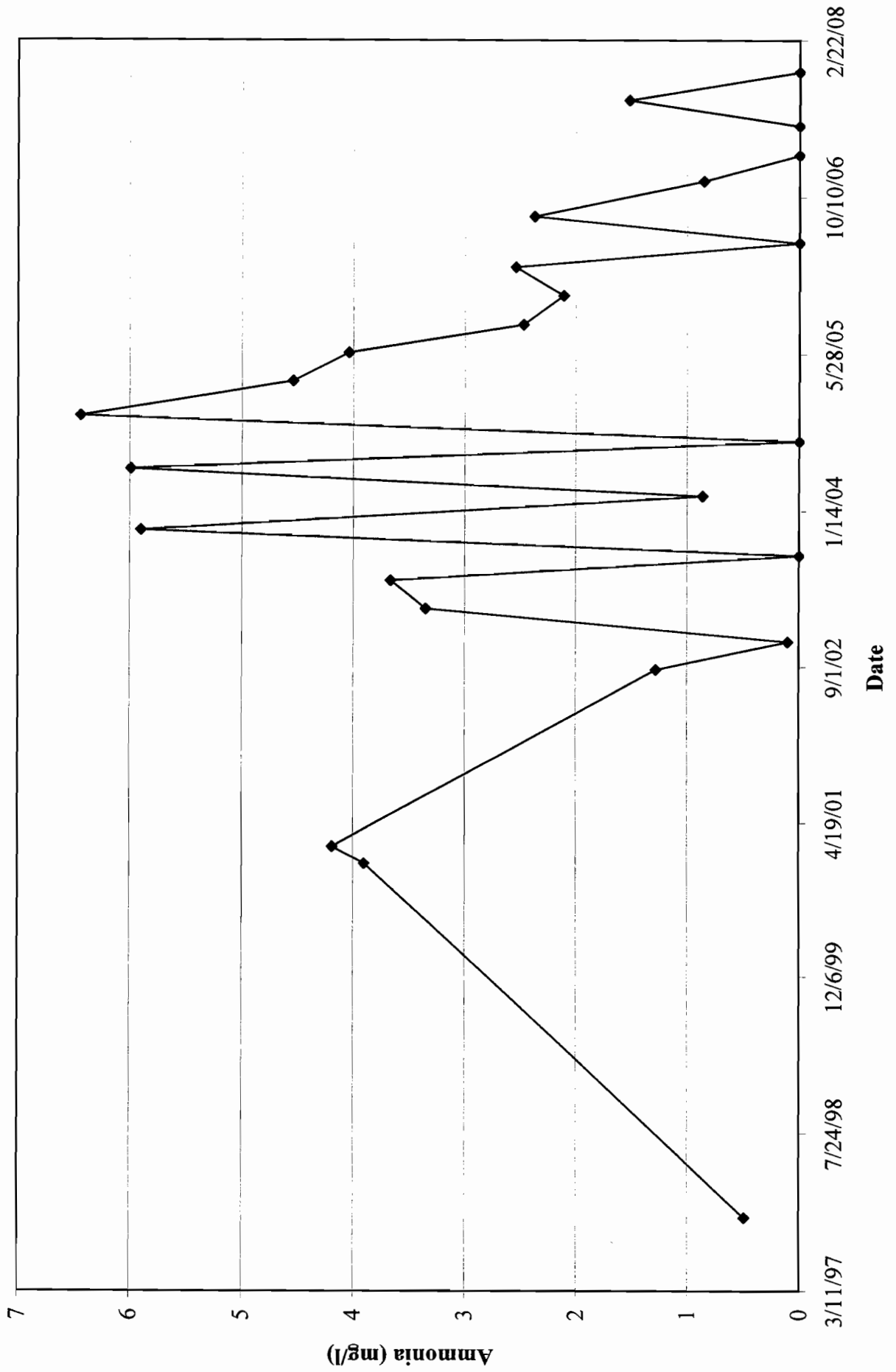
TOTAL KJELDAHL NITROGEN IN MW-05S



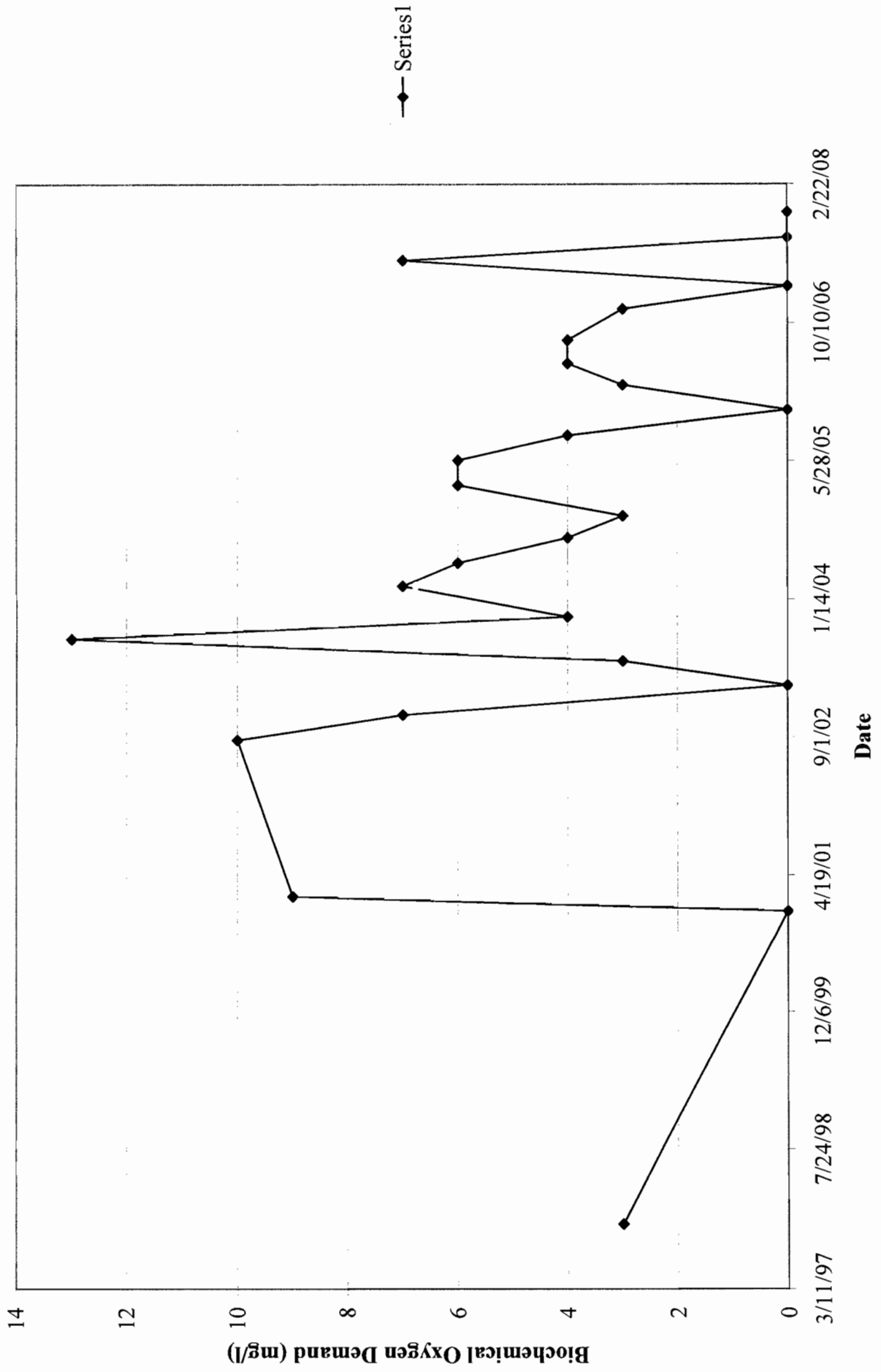
ALKALINITY IN MW-05I



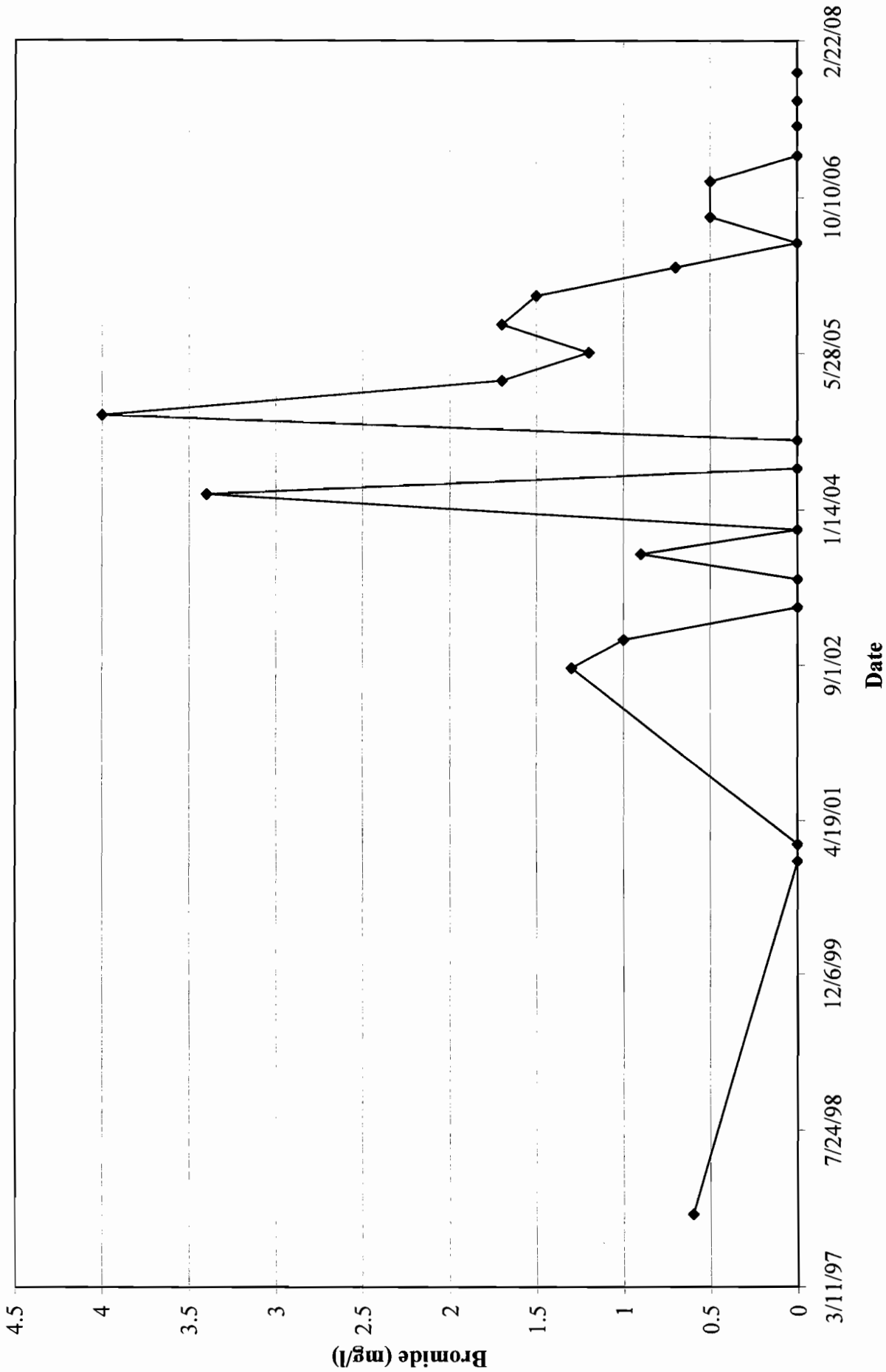
AMMONIA IN MW-05I



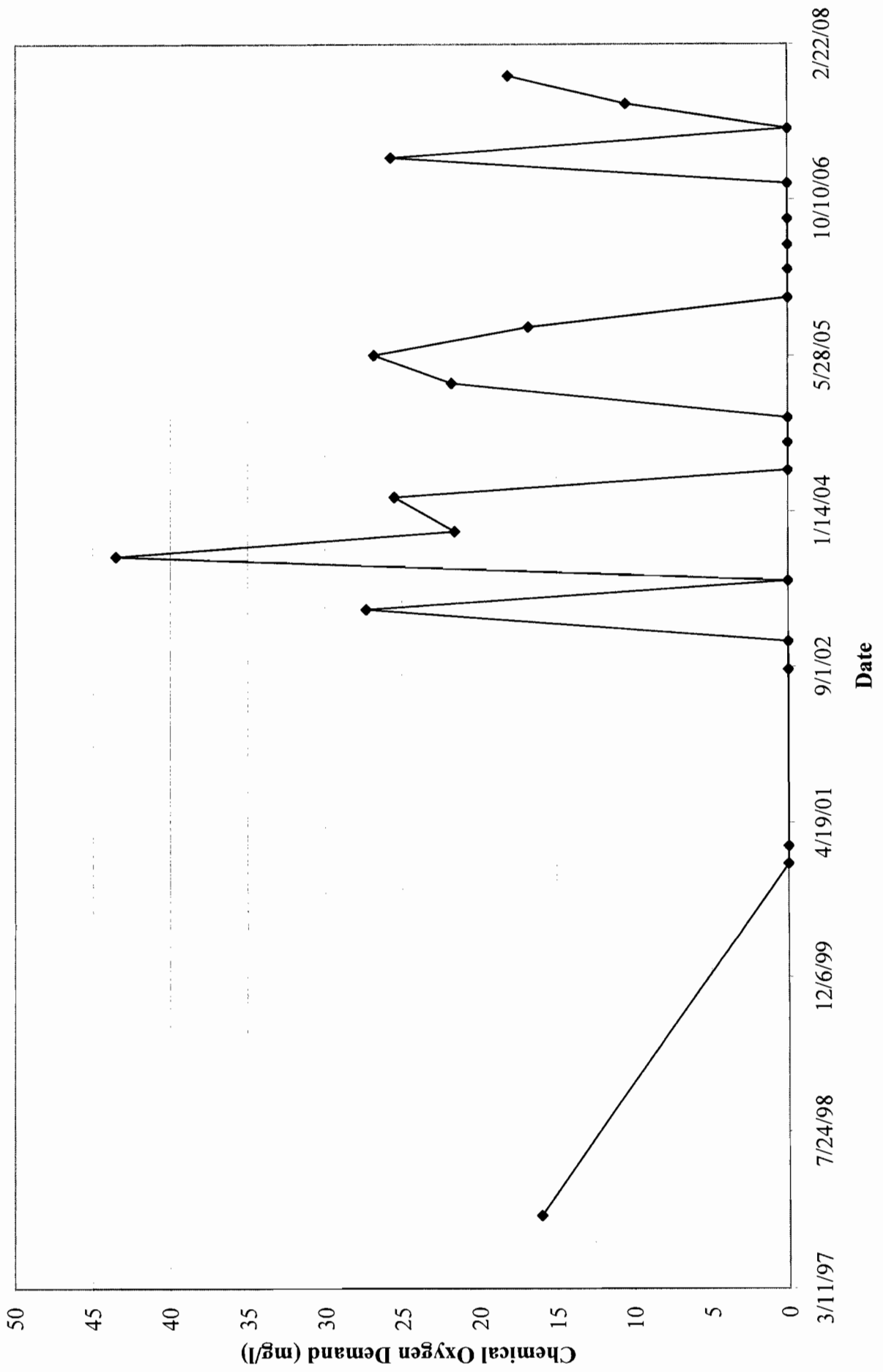
BIOCHEMICAL OXYGEN DEMAND IN MW-05I



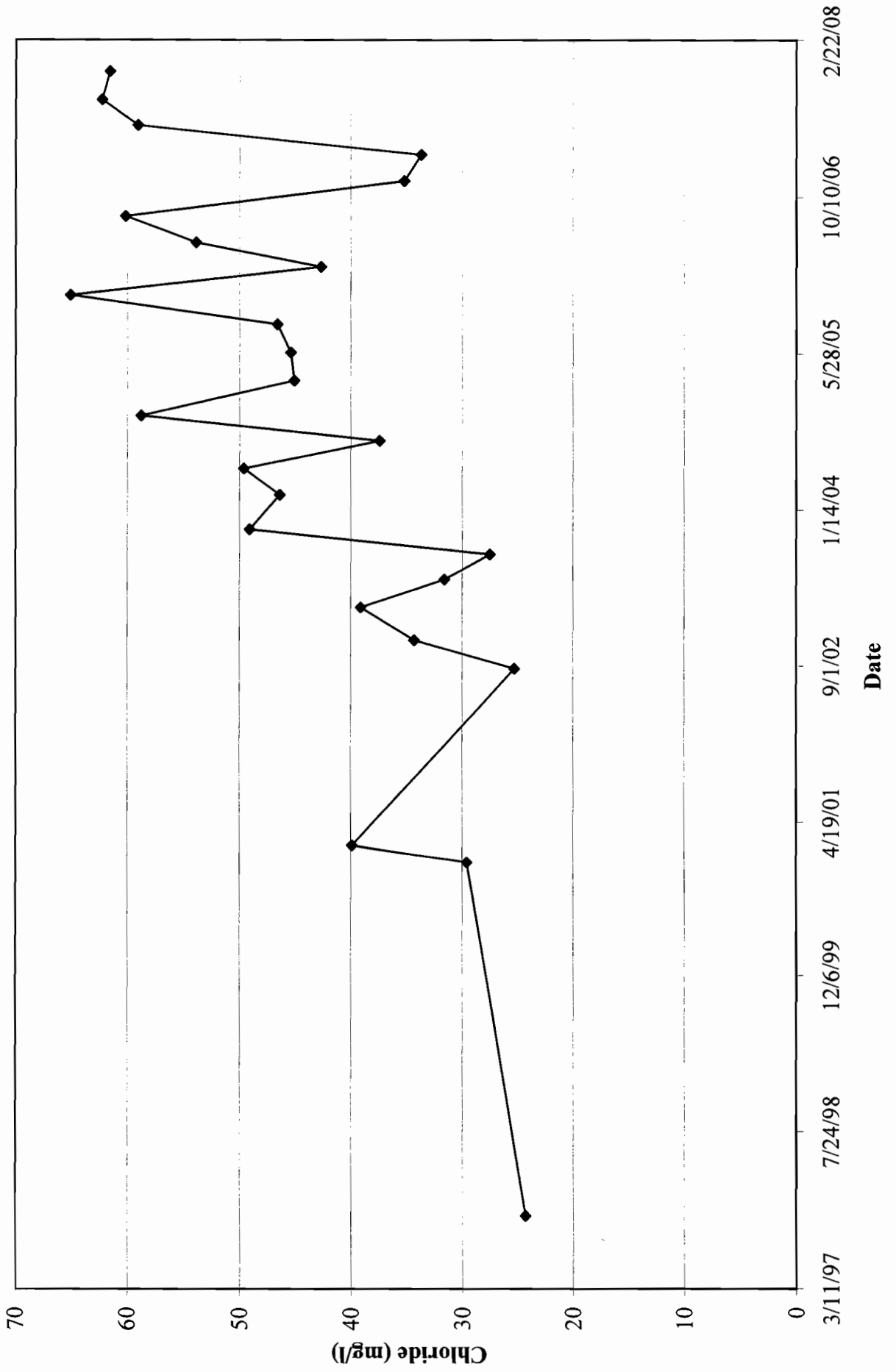
BROMIDE IN MW-05I



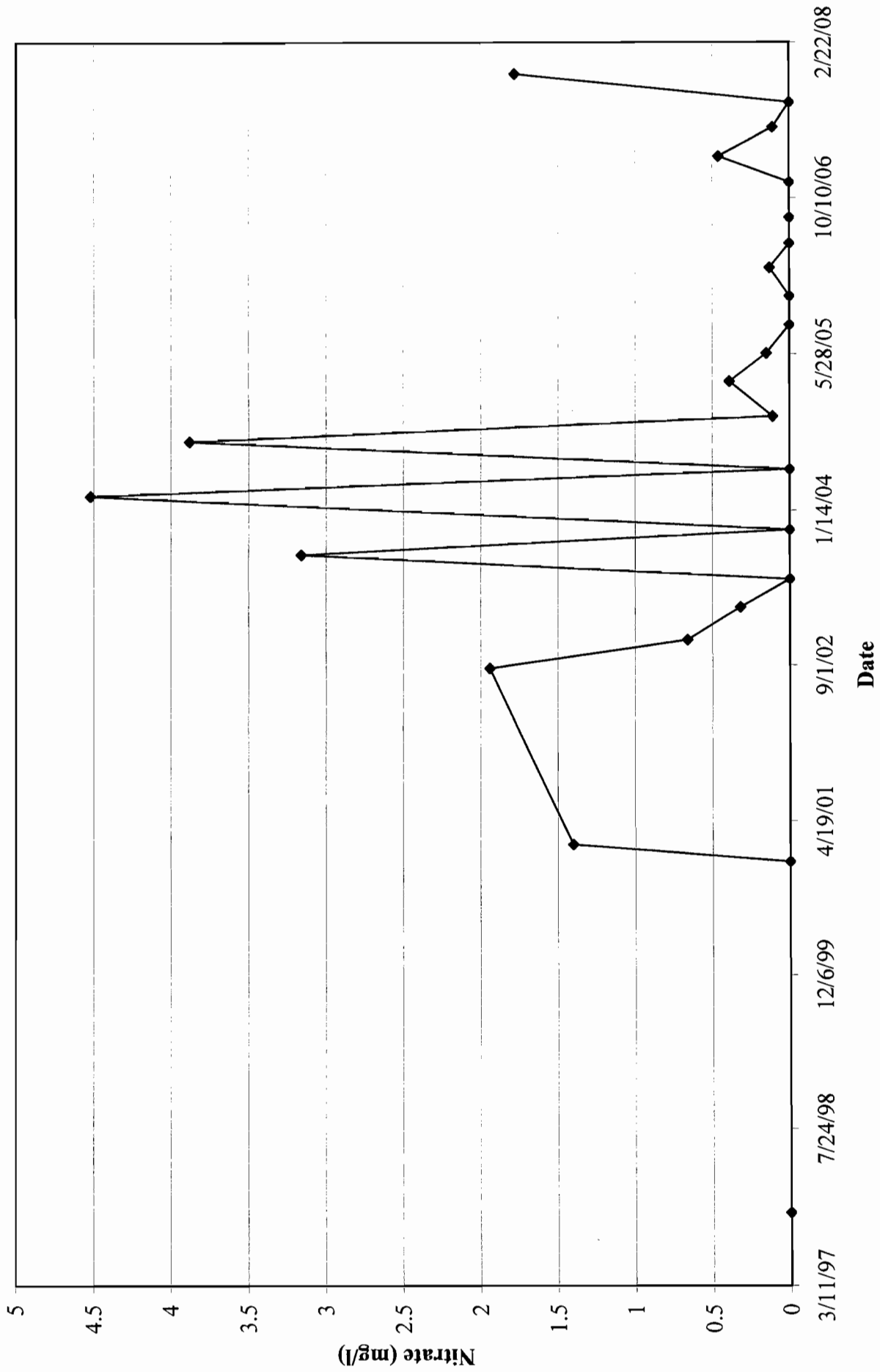
CHEMICAL OXYGEN DEMAND IN MW-05I



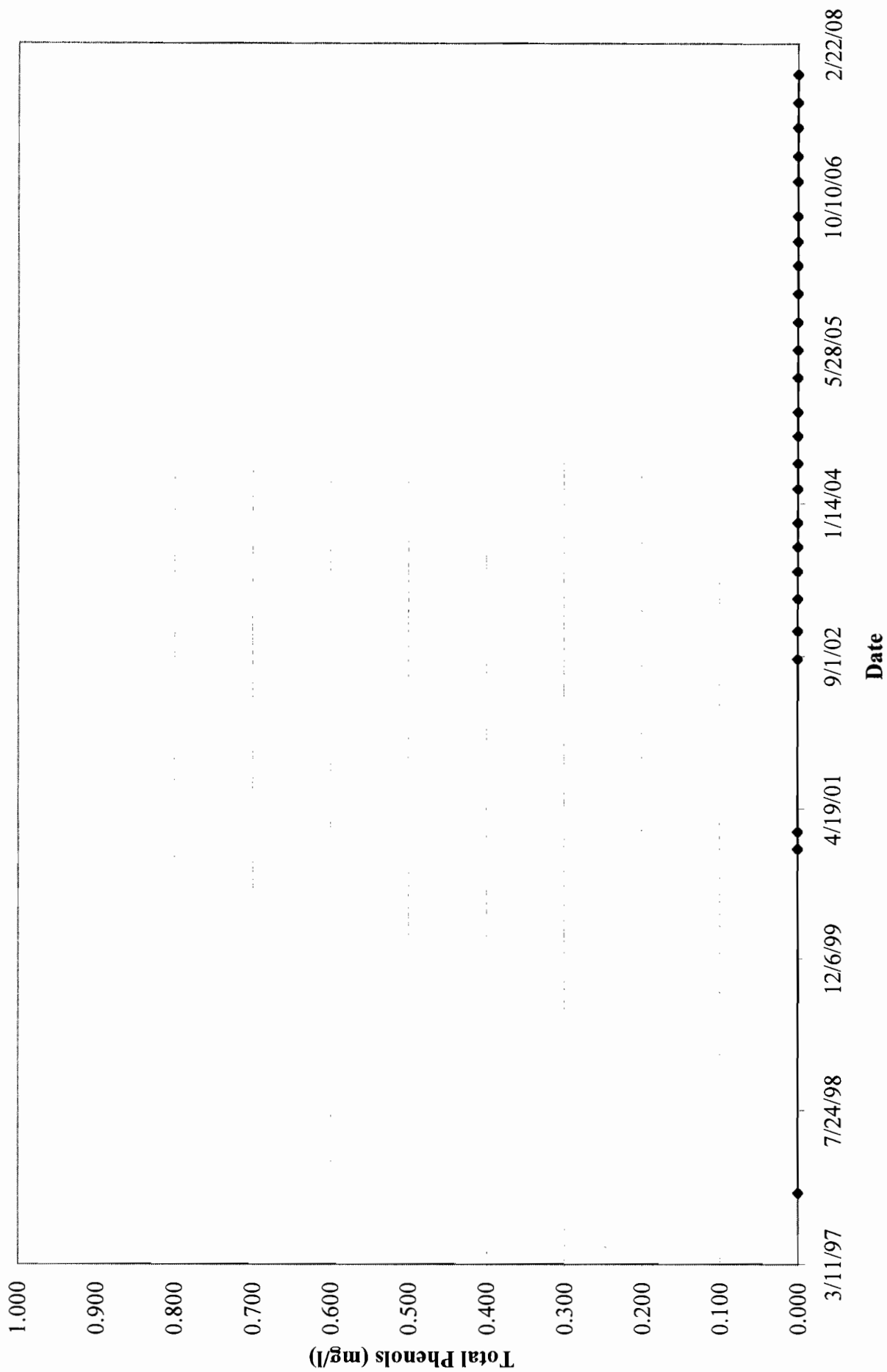
CHLORIDE IN MW-05I



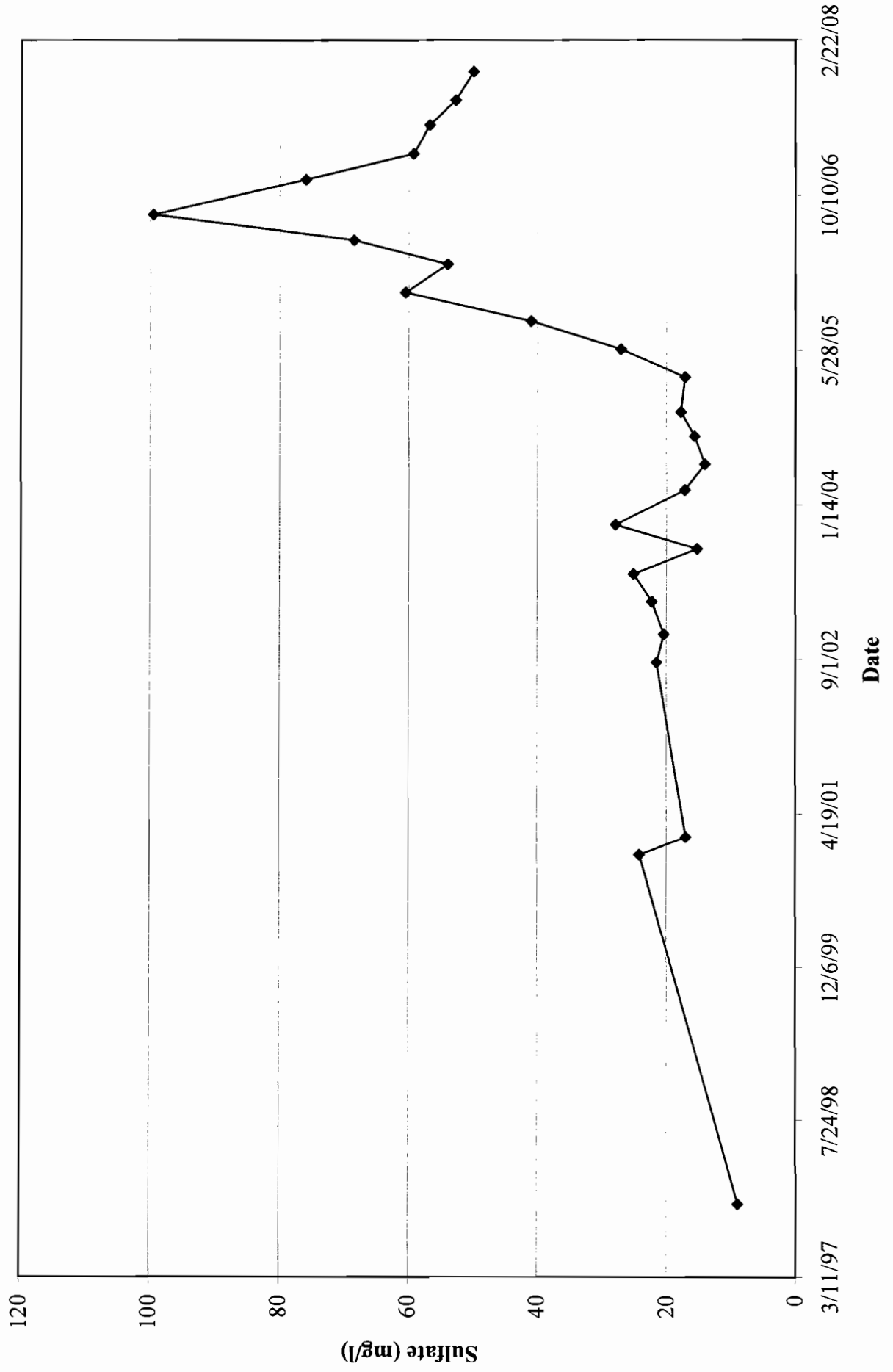
NITRATE IN MW-05I



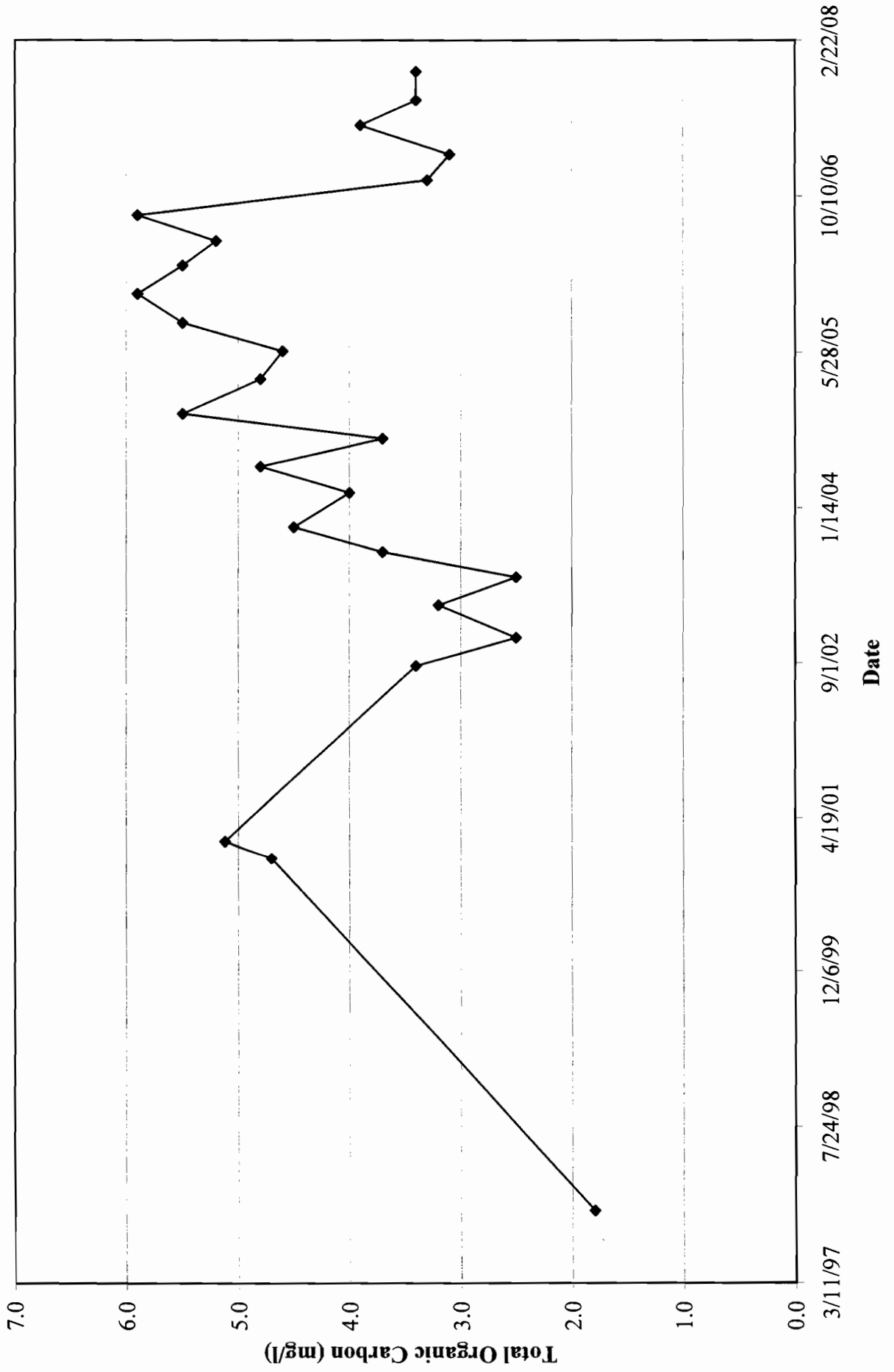
TOTAL PHENOLS IN MW-05I



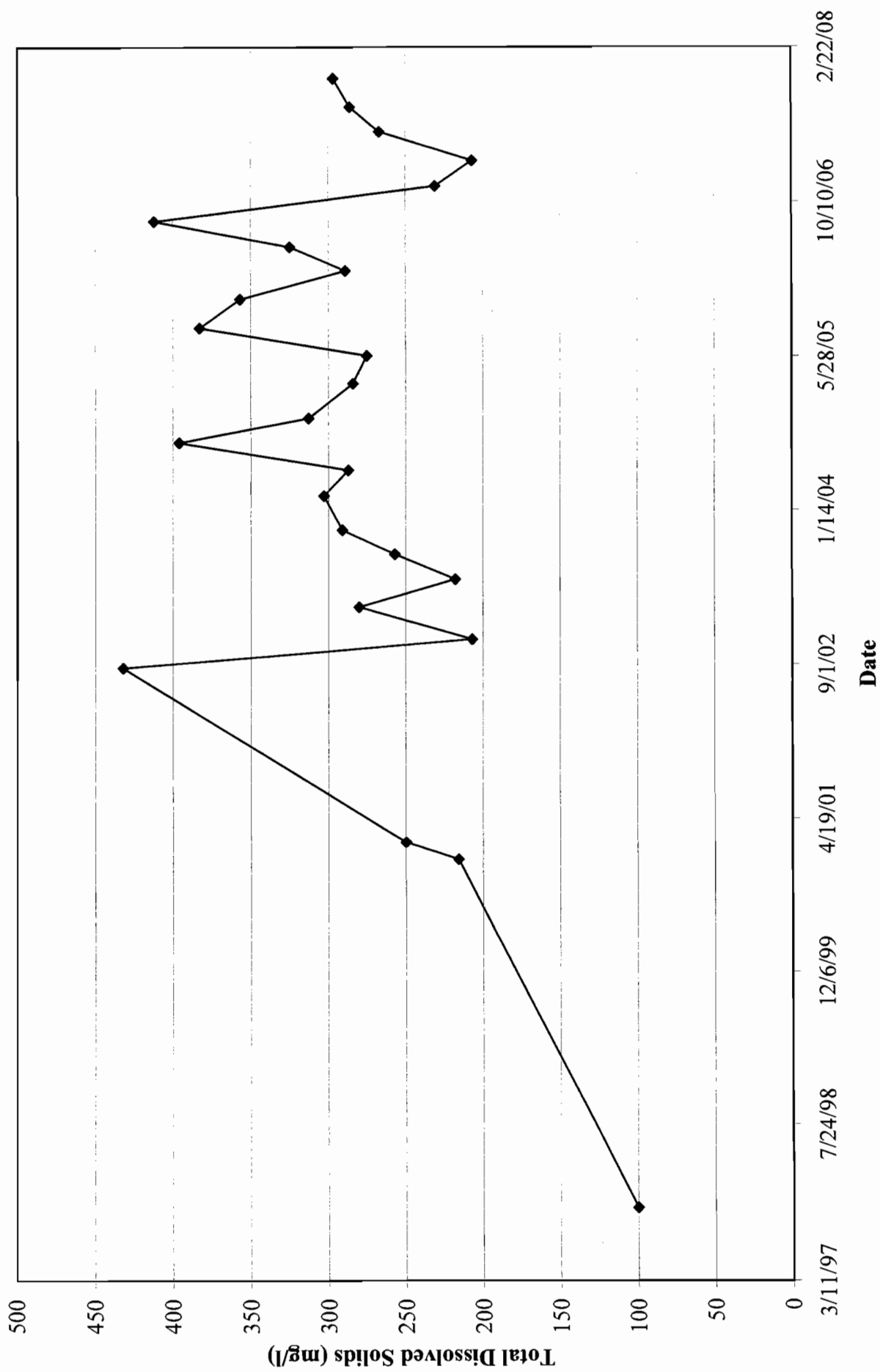
SULFATE IN MW-05I



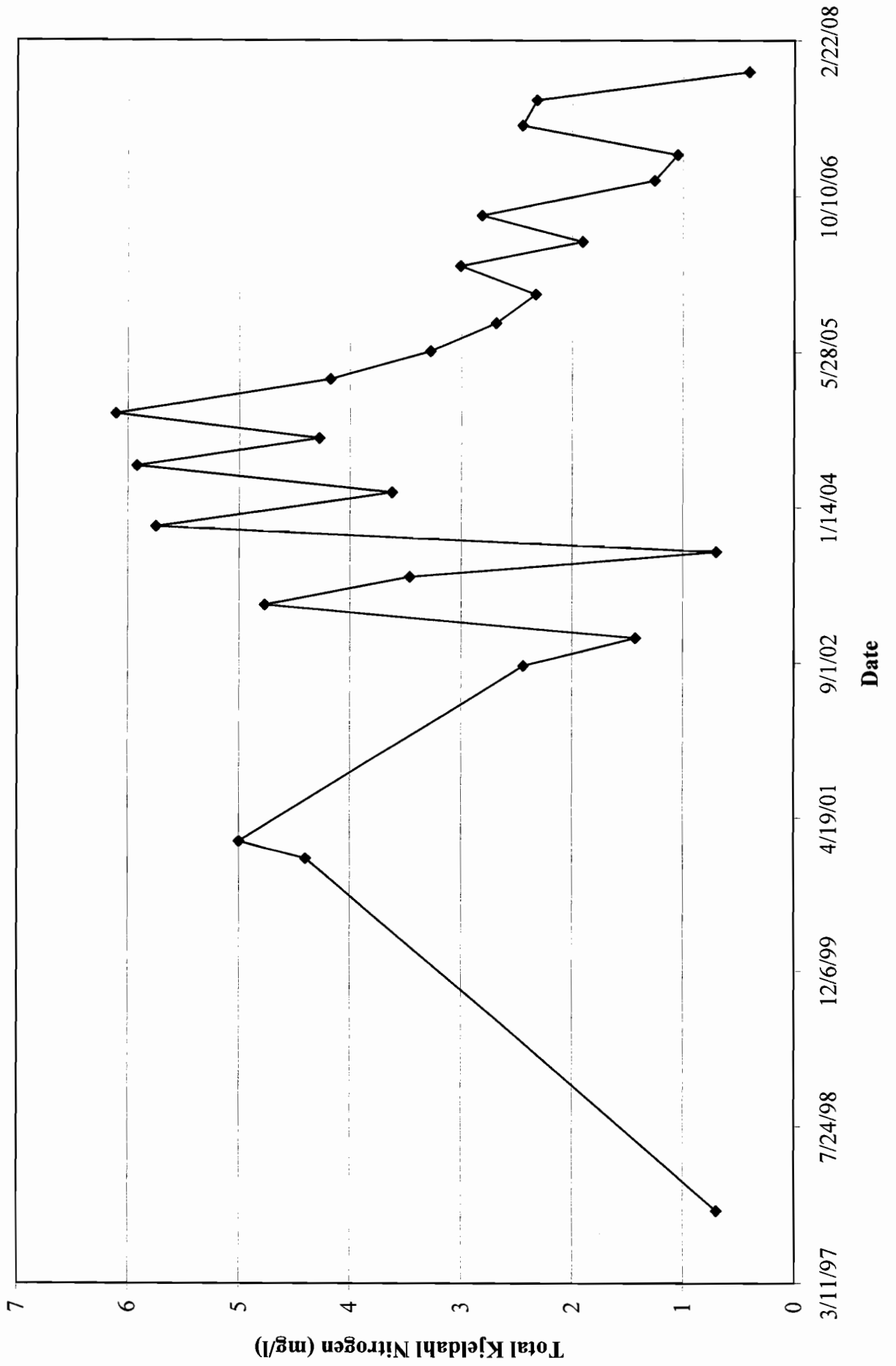
TOTAL ORGANIC CARBON IN MW-05I



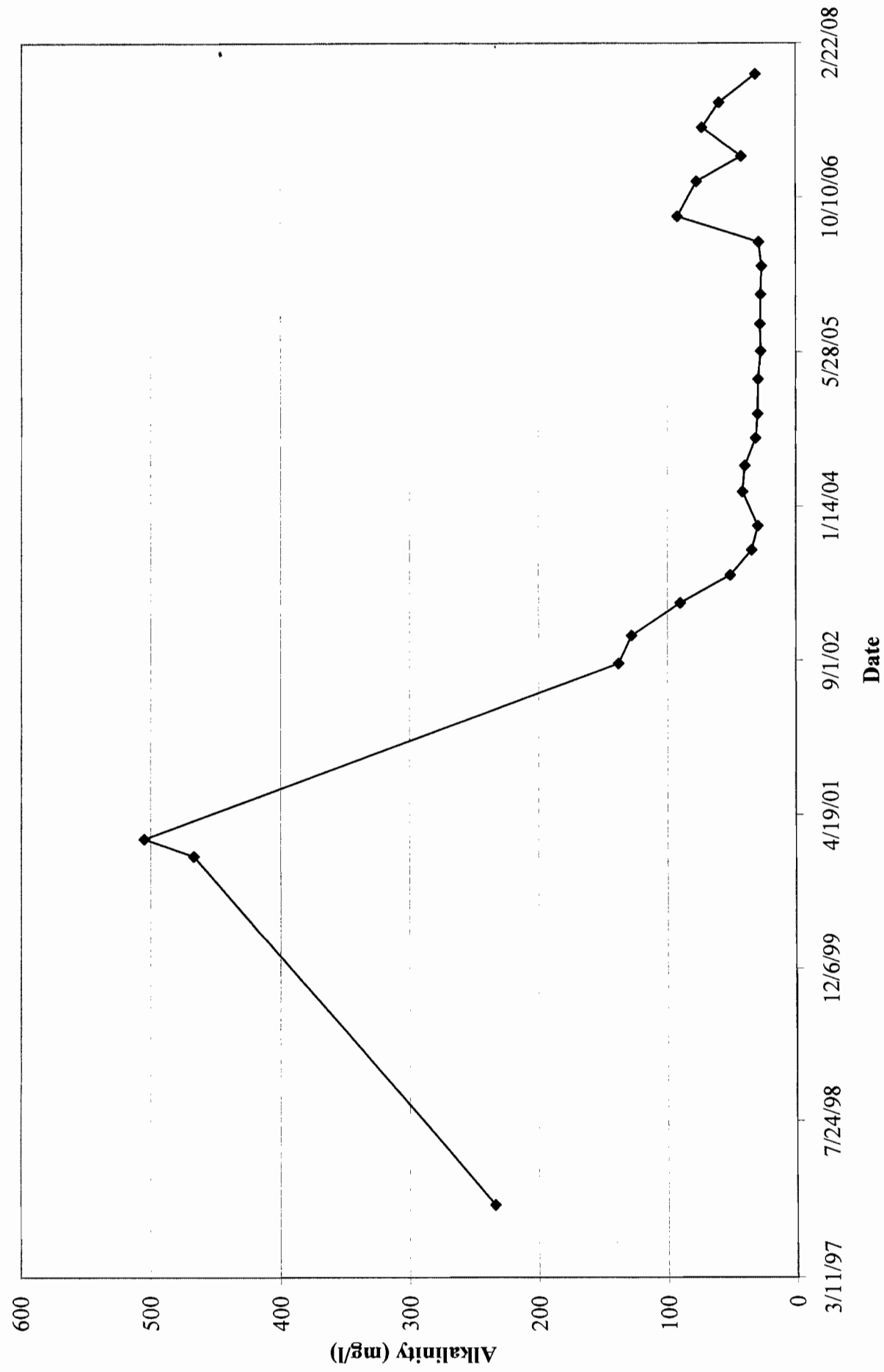
TOTAL DISSOLVED SOLIDS IN MW-05I



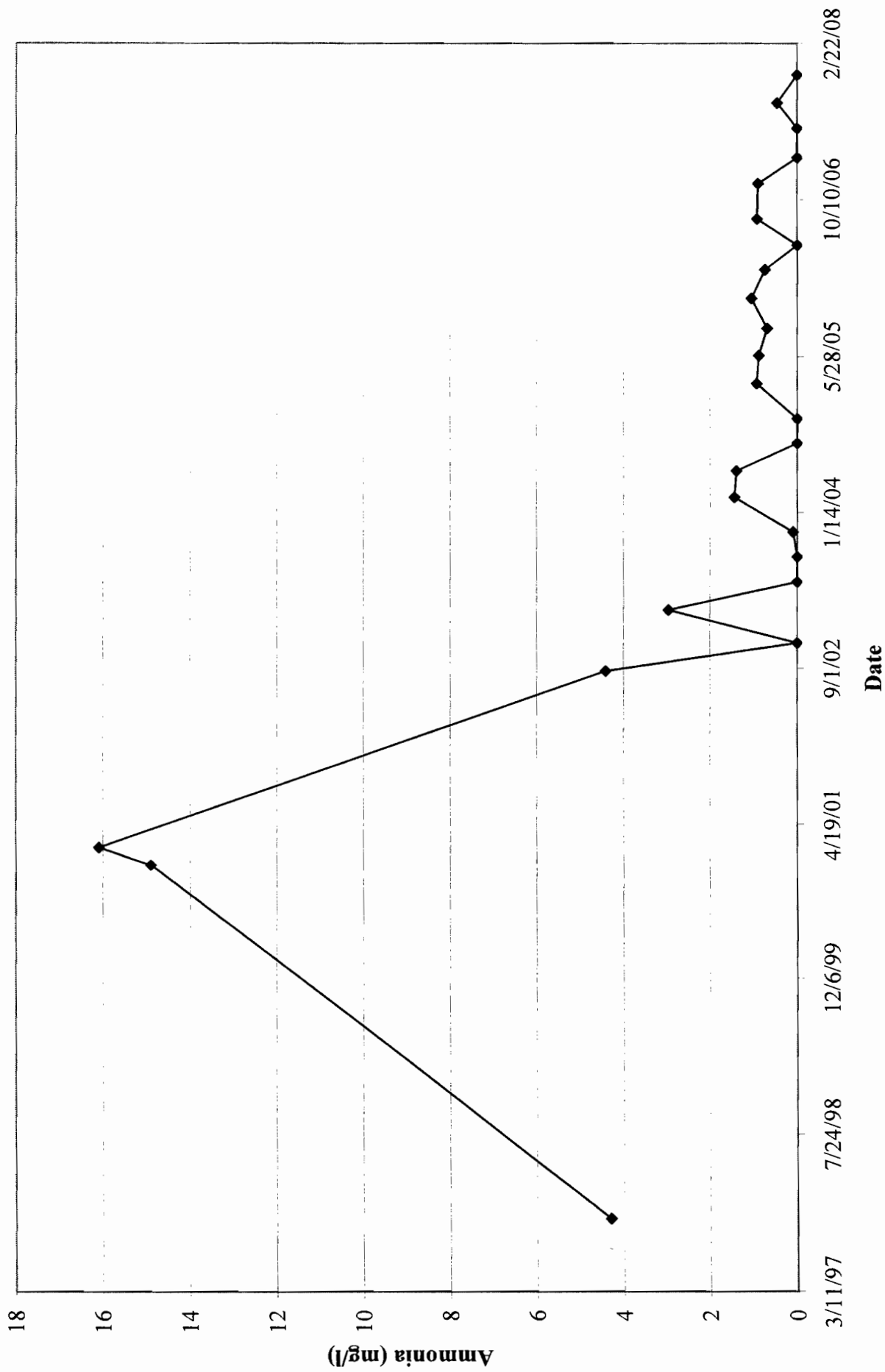
TOTAL KJELDAHL NITROGEN IN MW-05I



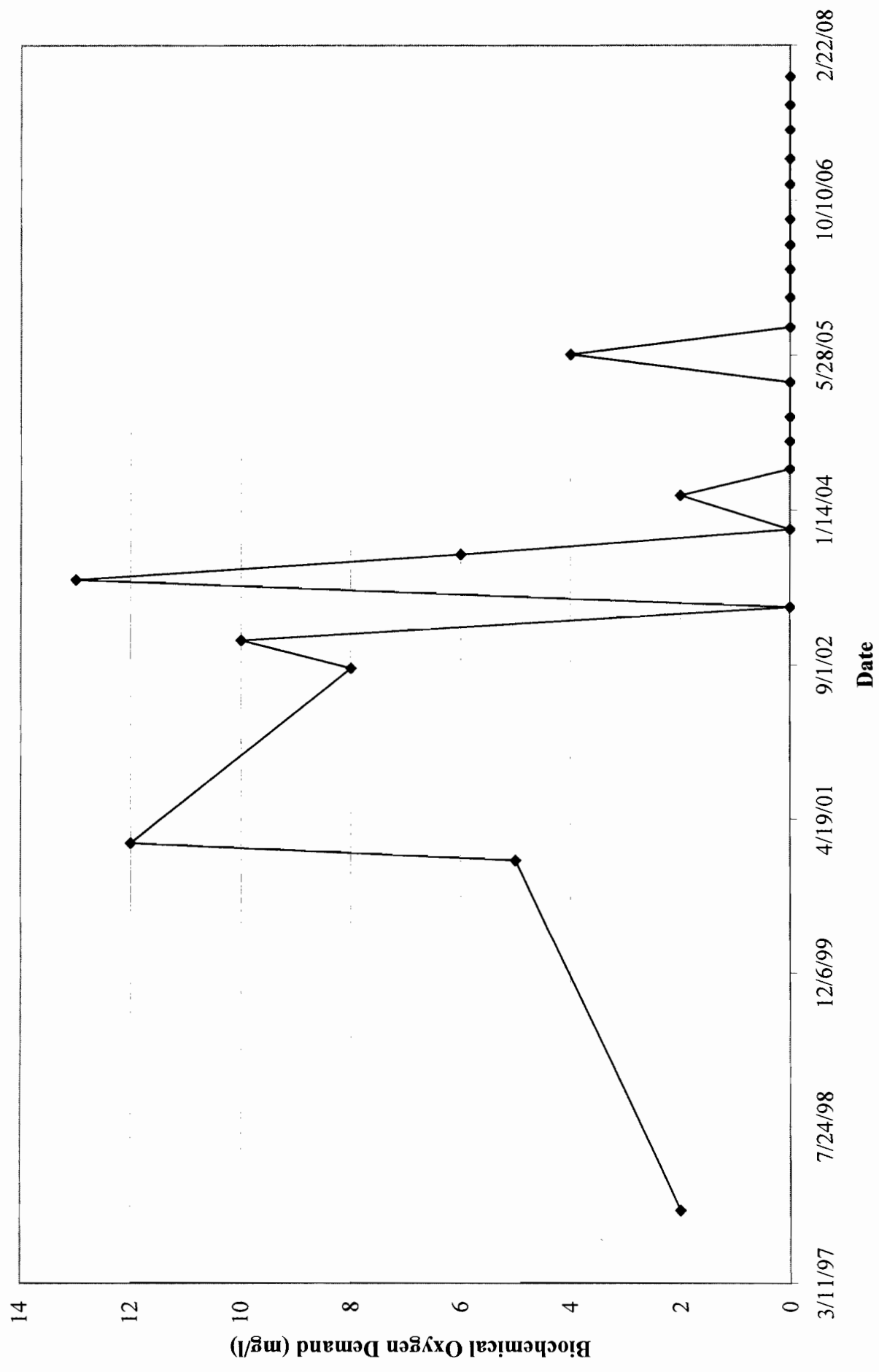
ALKALINITY IN MW-05D



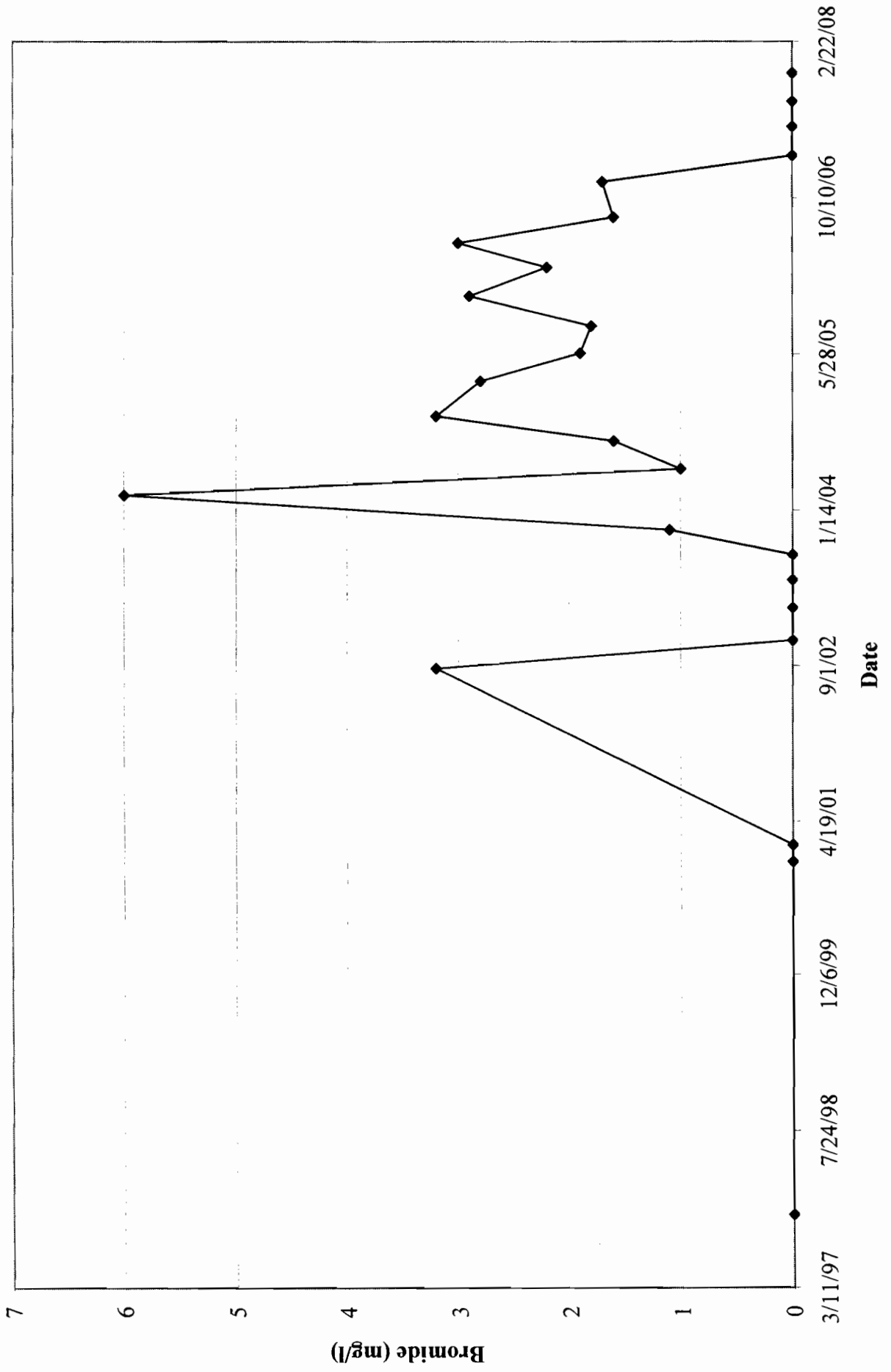
AMMONIA IN MW-05D



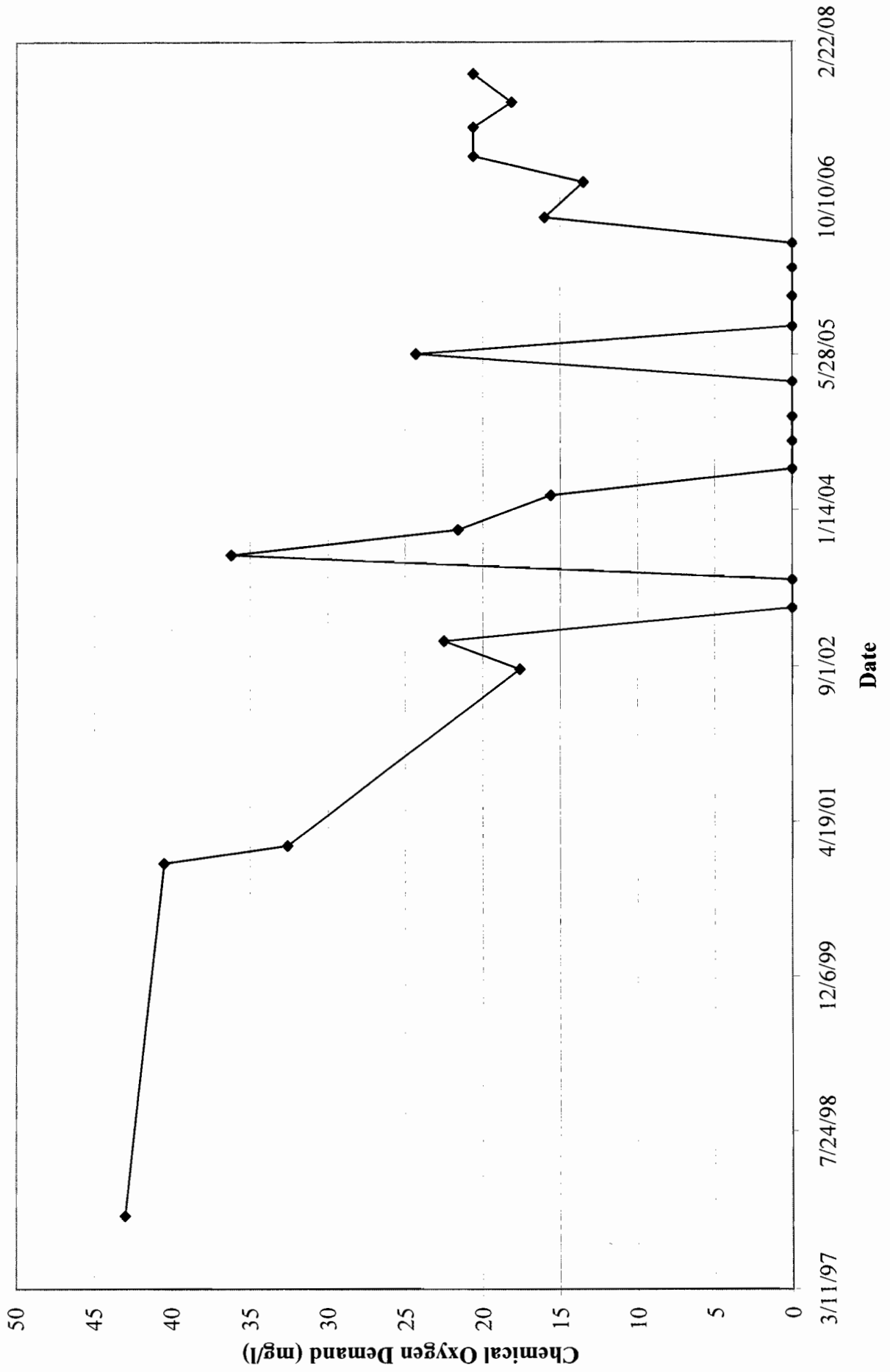
BIOCHEMICAL OXYGEN DEMAND IN MW-05D



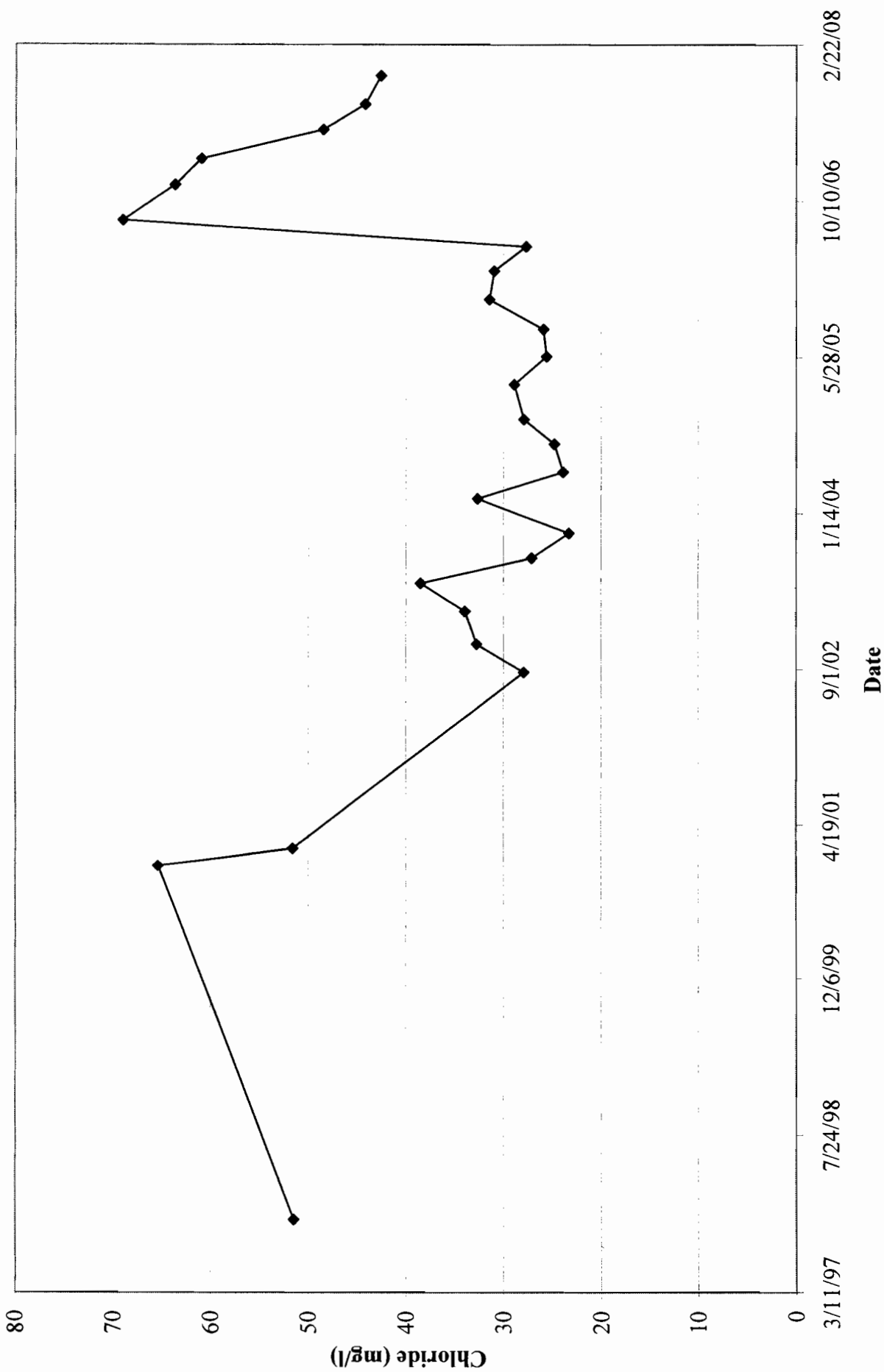
BROMIDE IN MW-05D



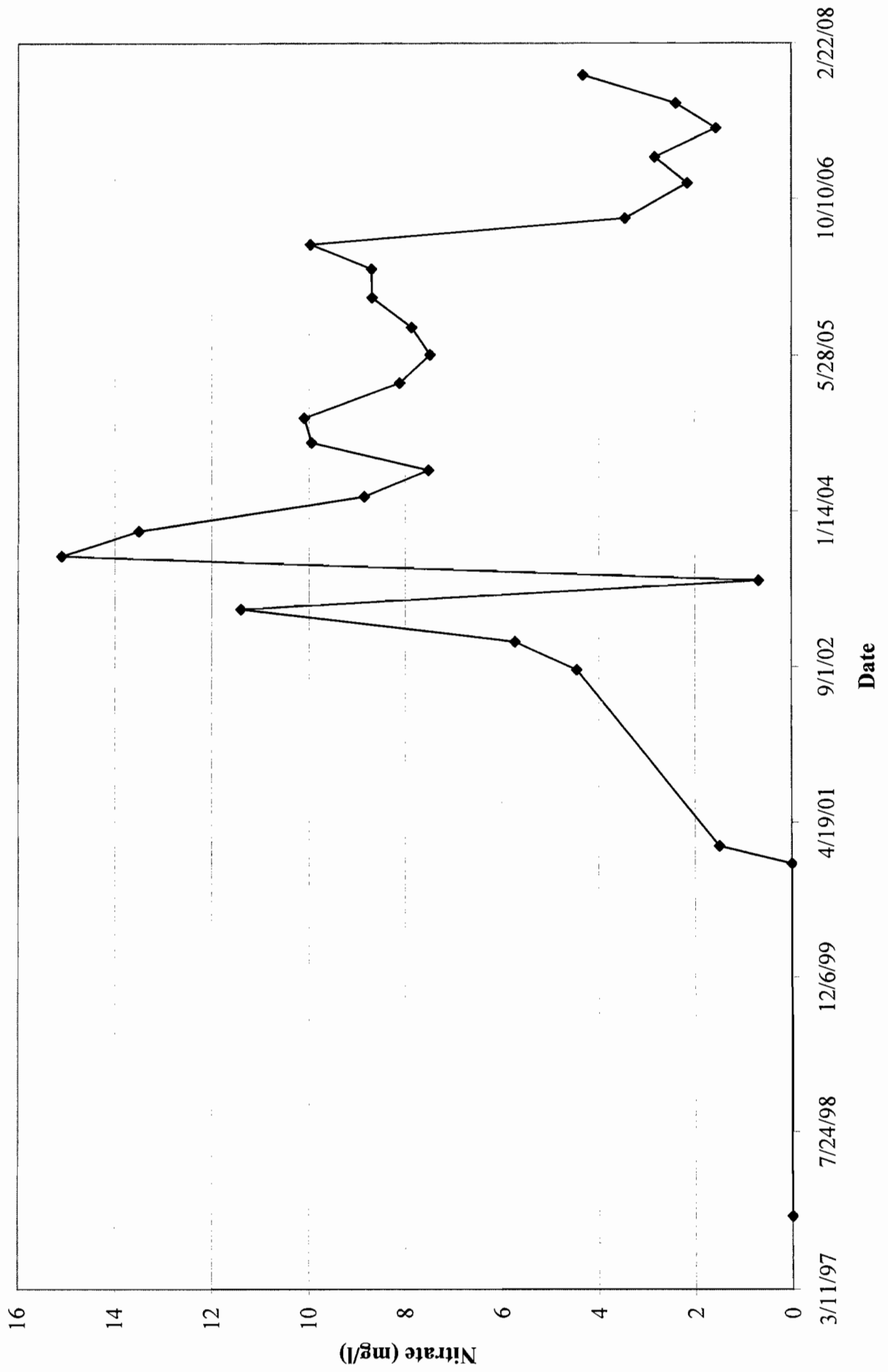
CHEMICAL OXYGEN DEMAND IN MW-05D



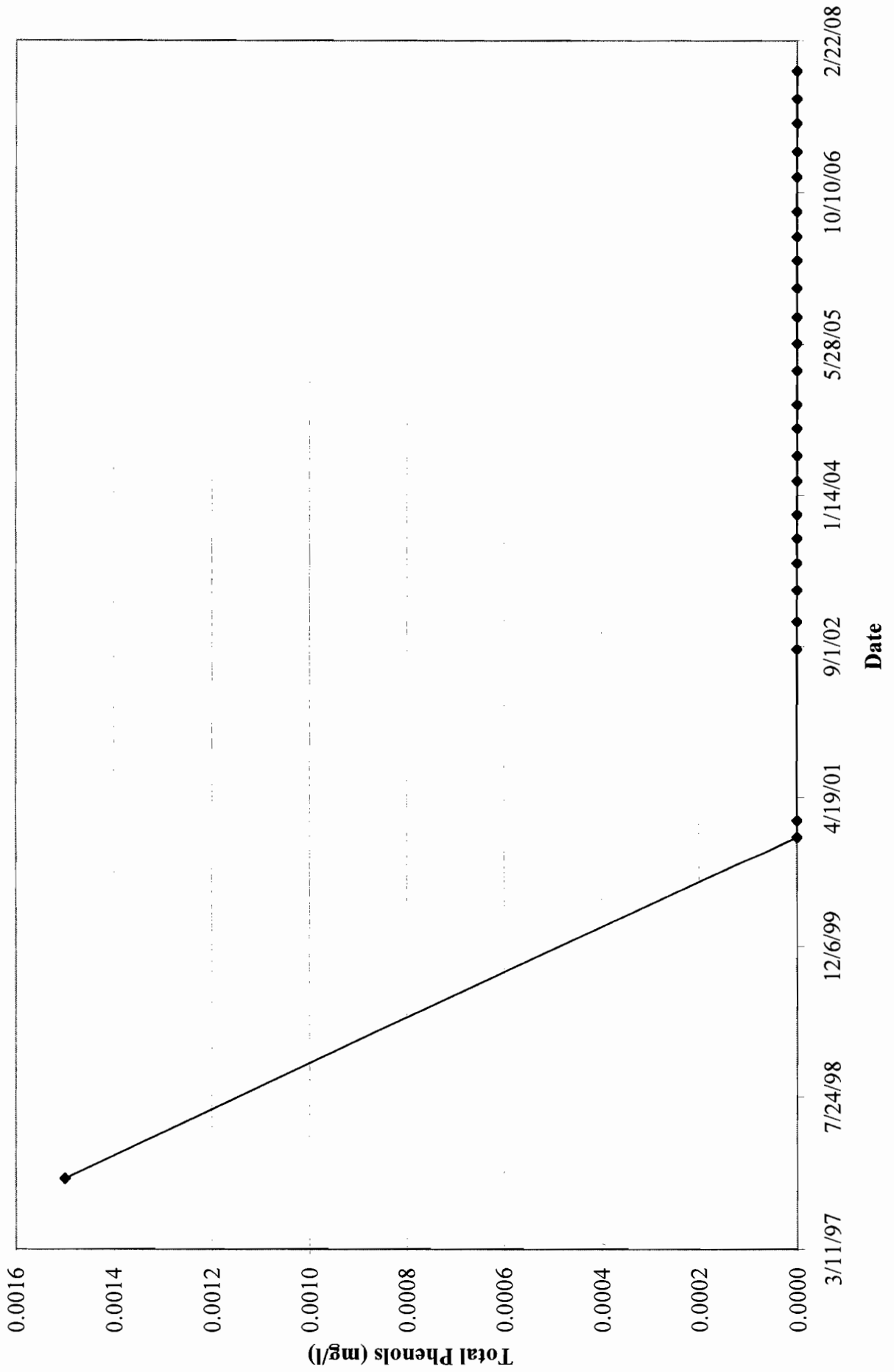
CHLORIDE IN MW-05D



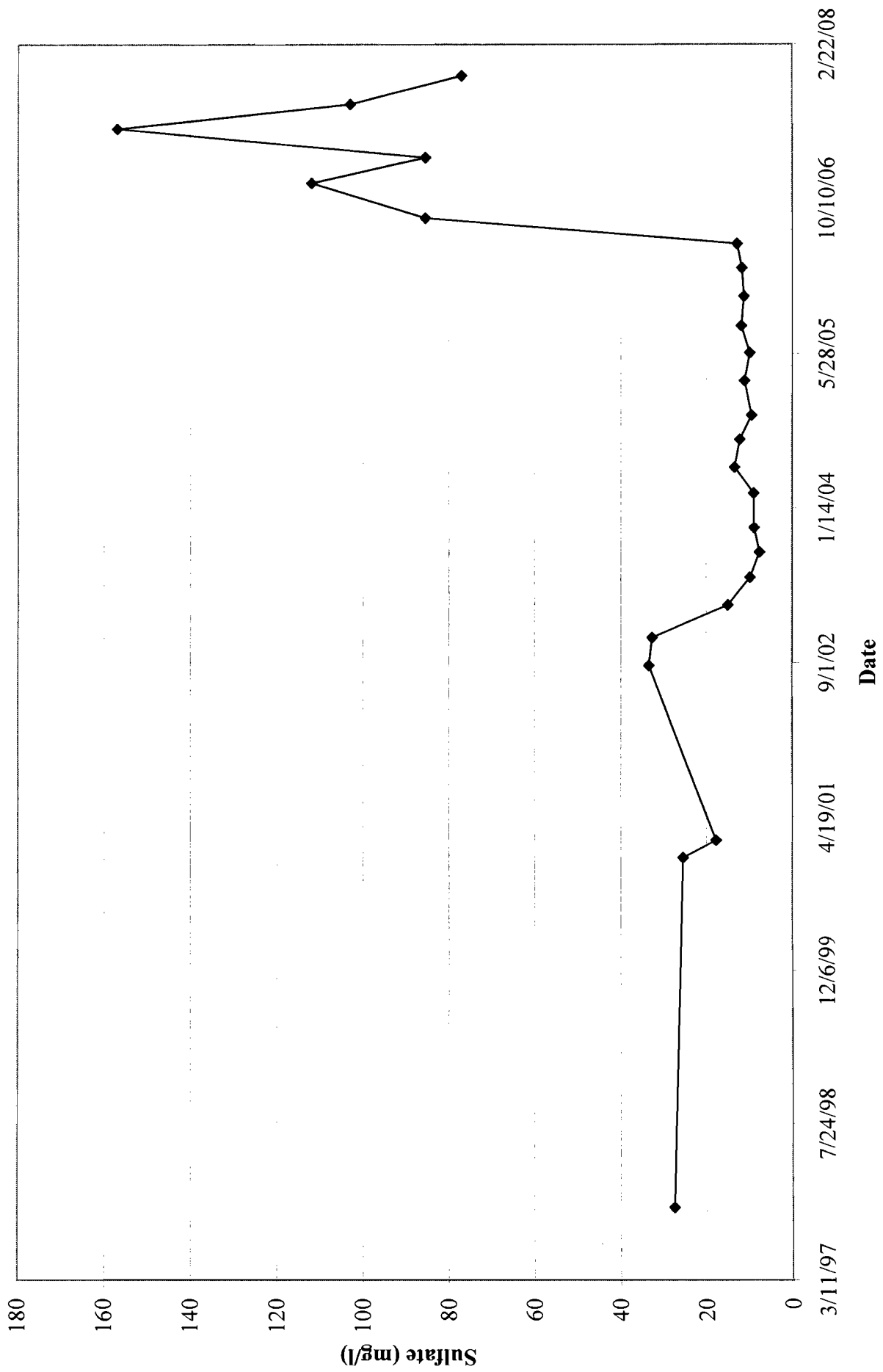
NITRATE IN MW-05D



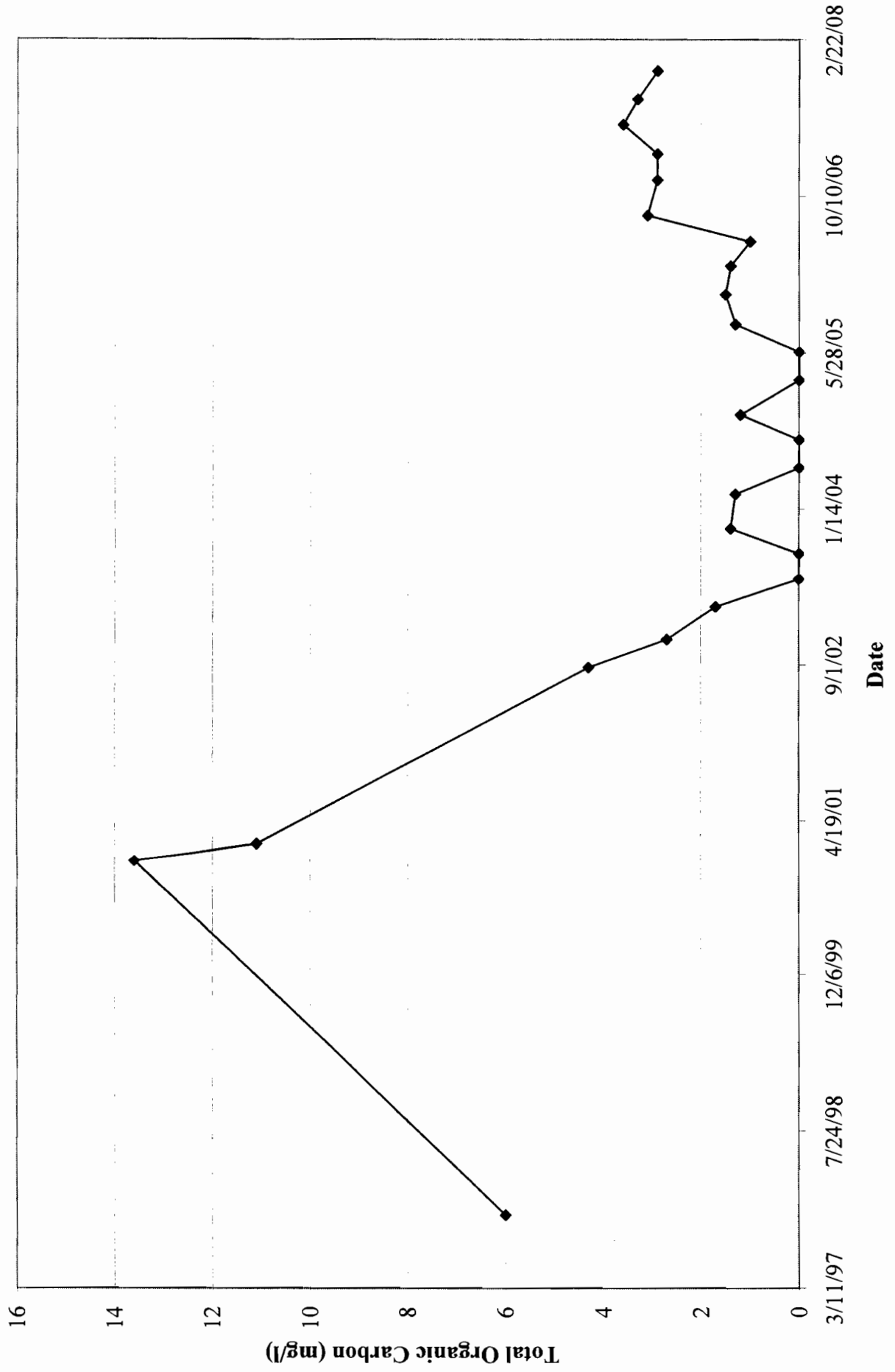
TOTAL PHENOLS IN MW-05D



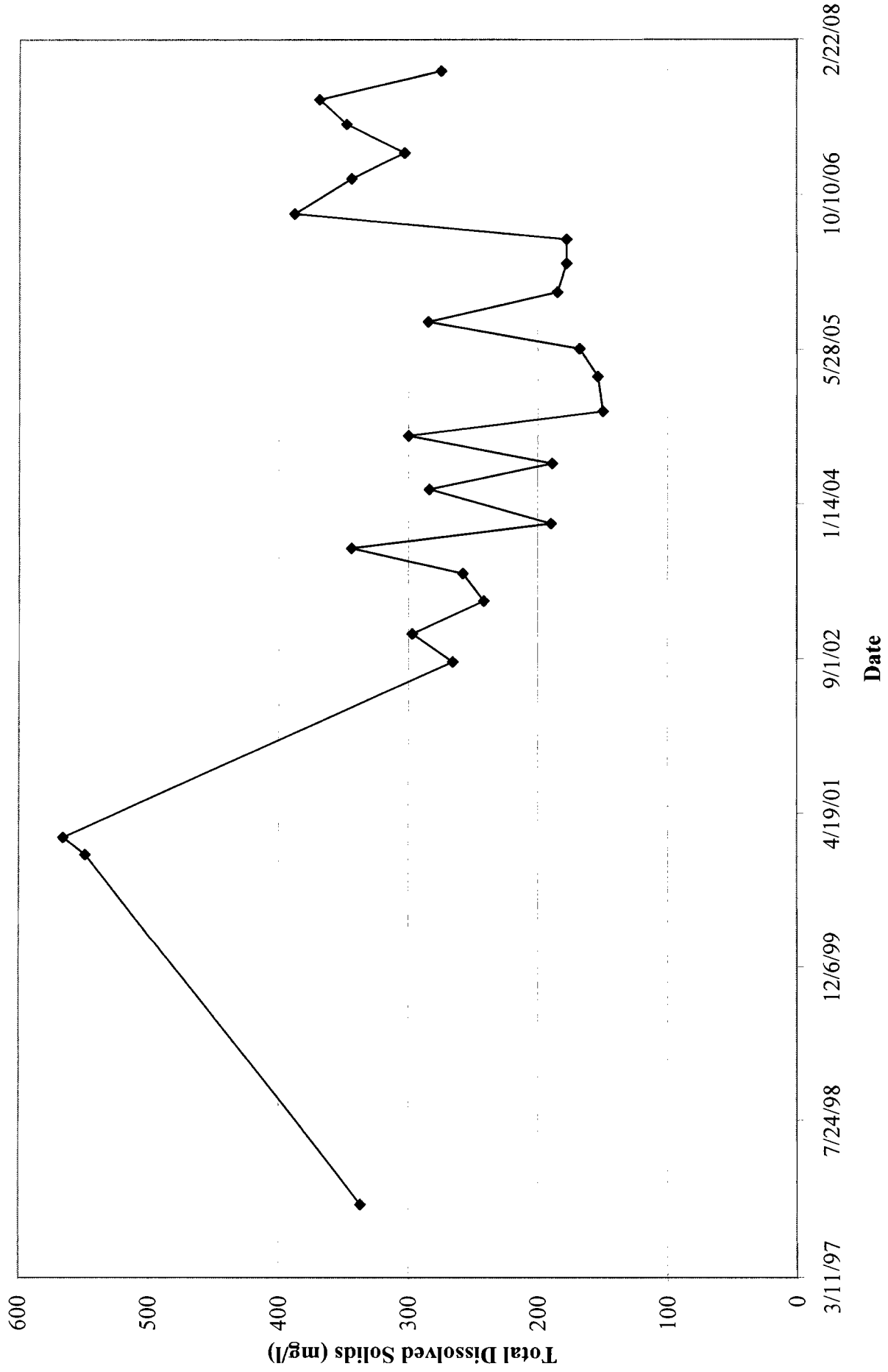
SULFATE IN MW-05D



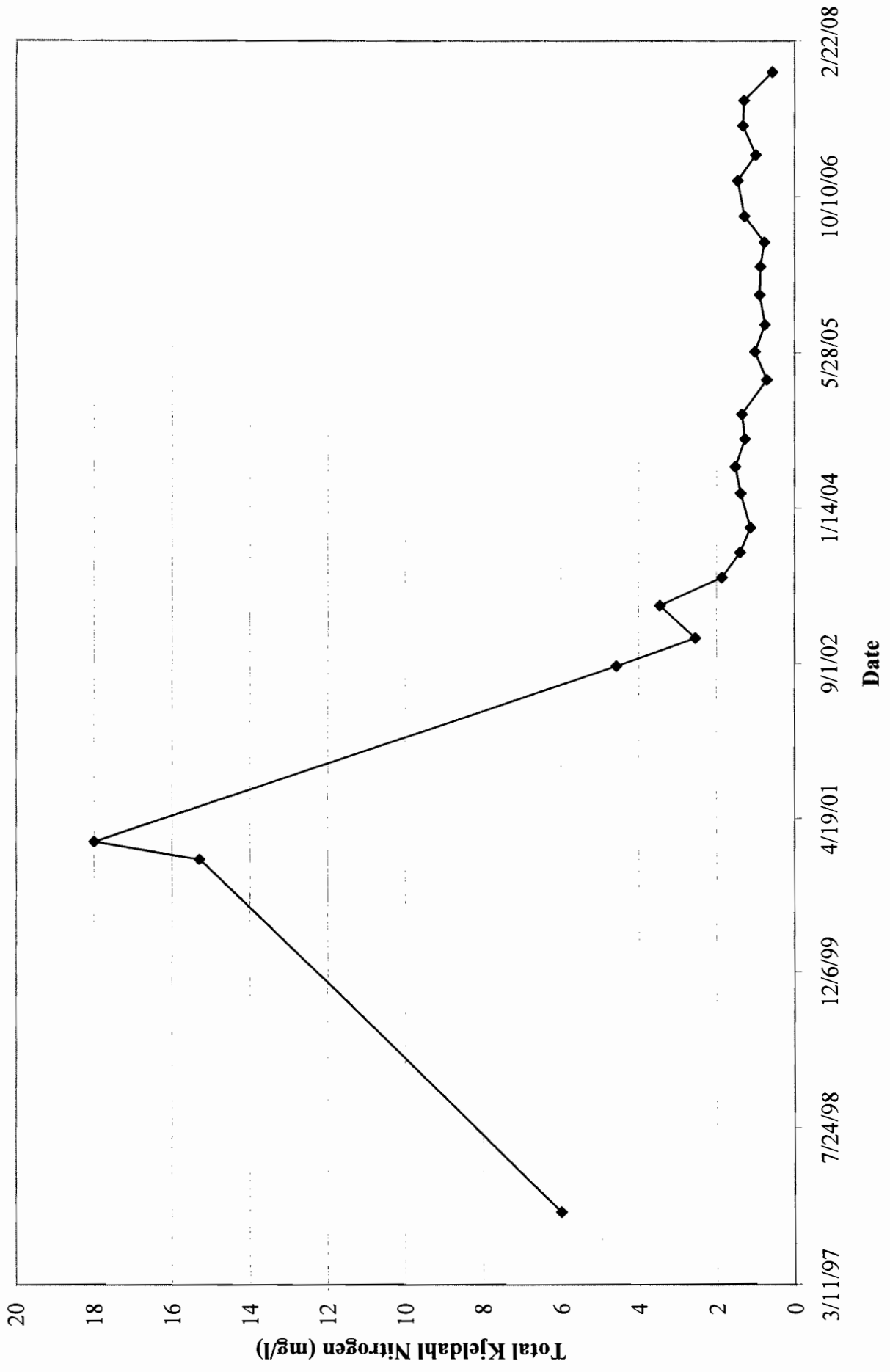
TOTAL ORGANIC CARBON IN MW-05D



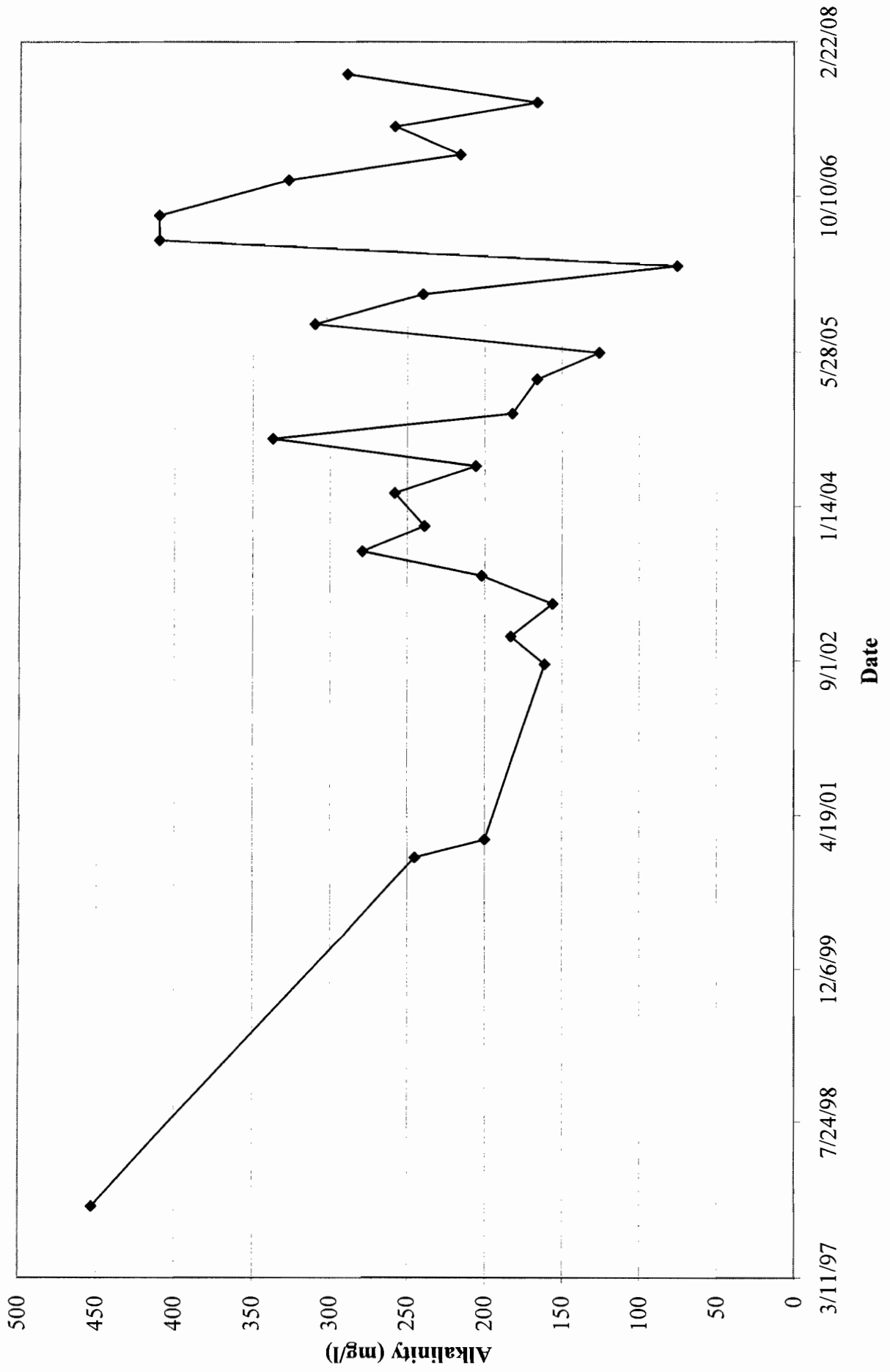
TOTAL DISSOLVED SOLIDS IN MW-05D



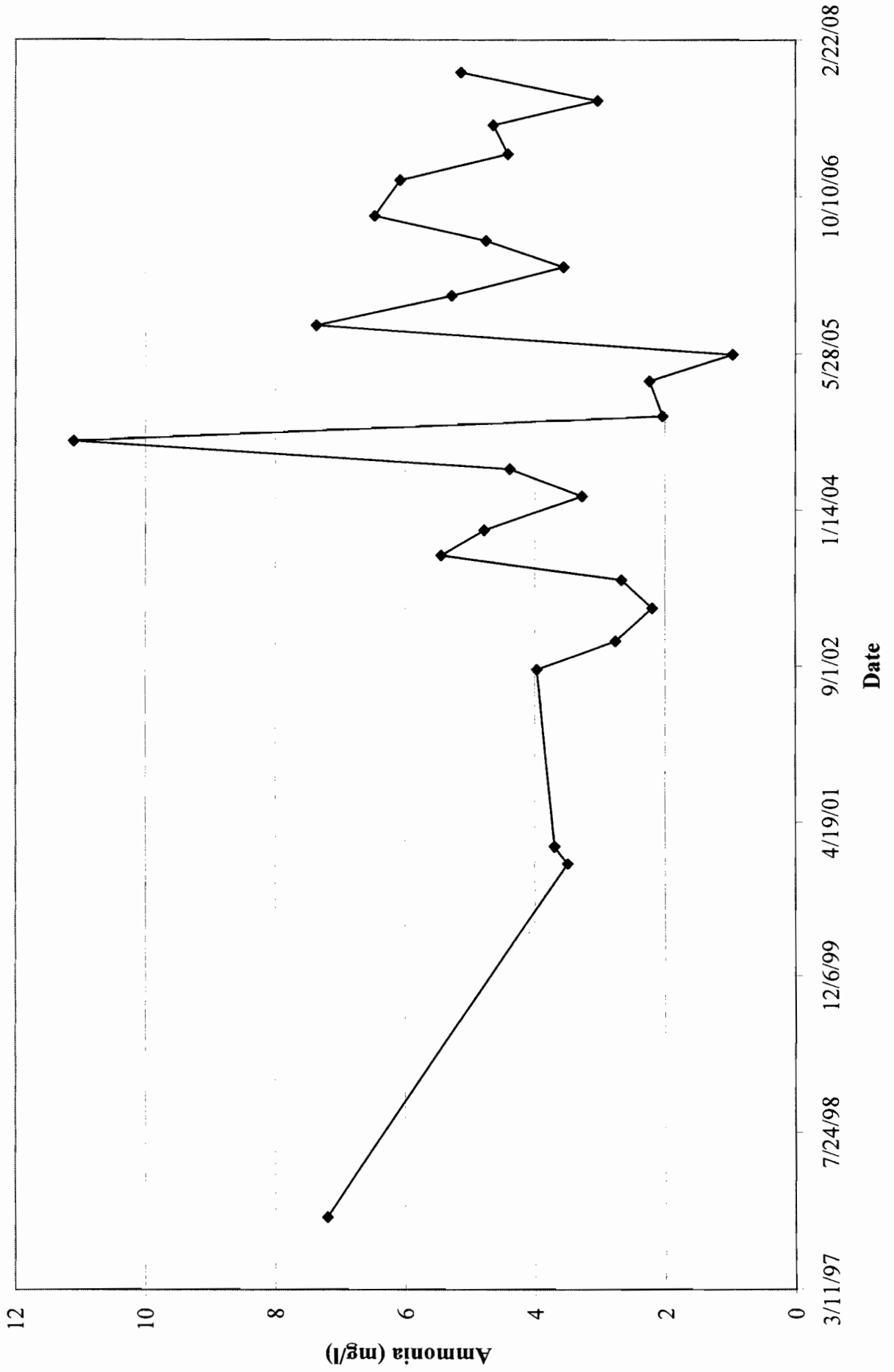
TOTAL KJELDAHL NITROGEN IN MW-05D



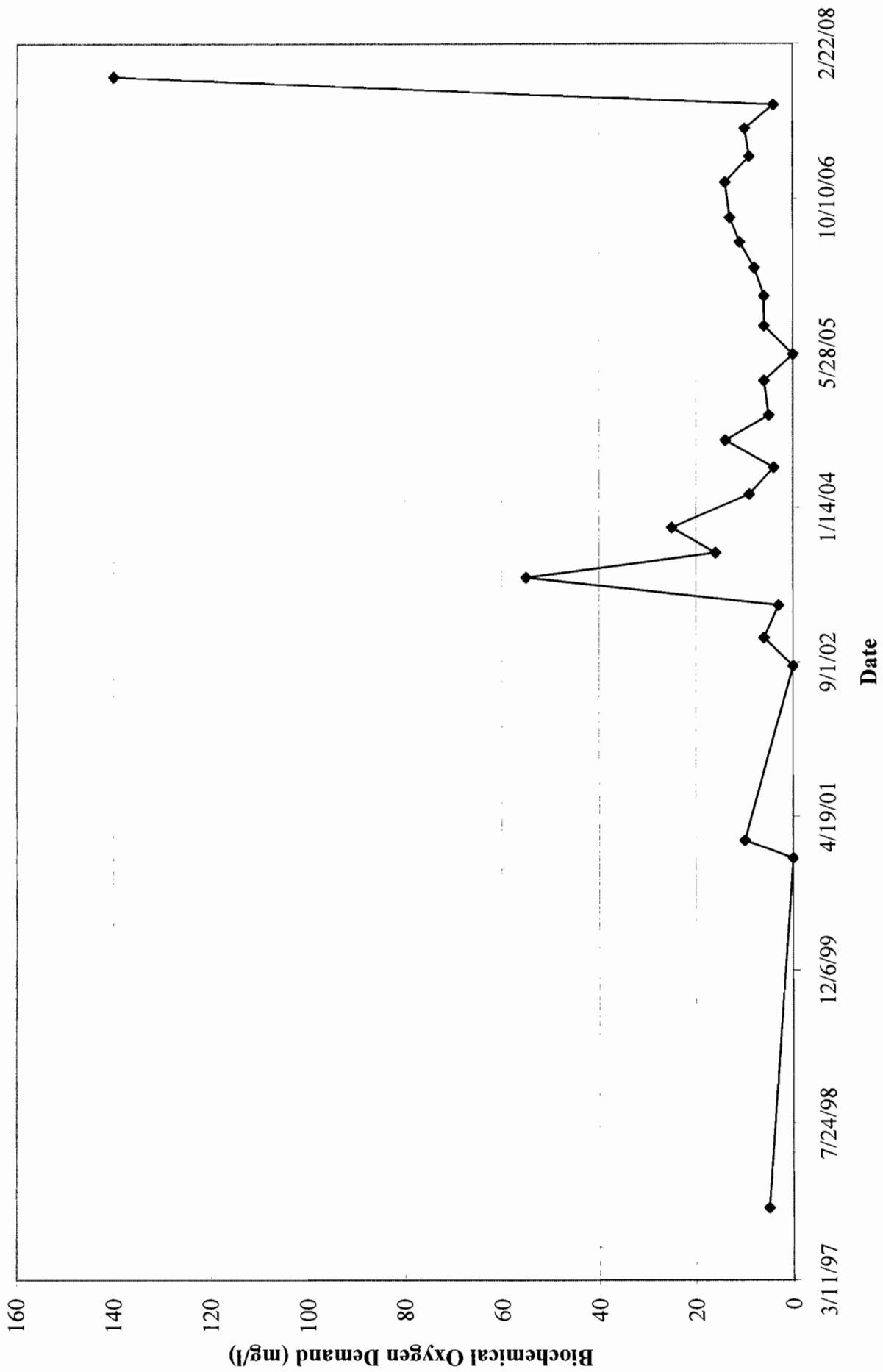
ALKALINITY IN MW-06S



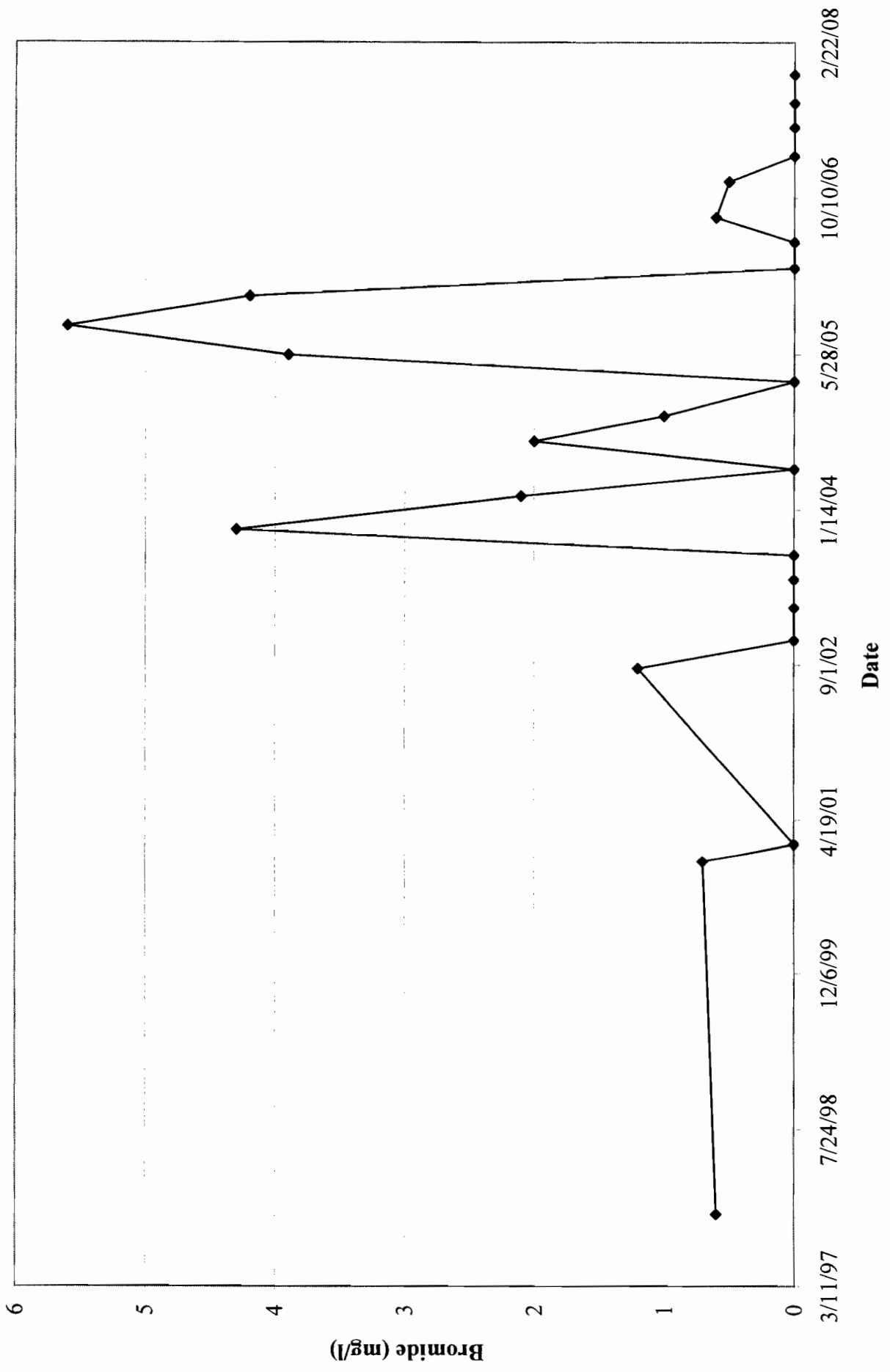
AMMONIA IN MW-06S



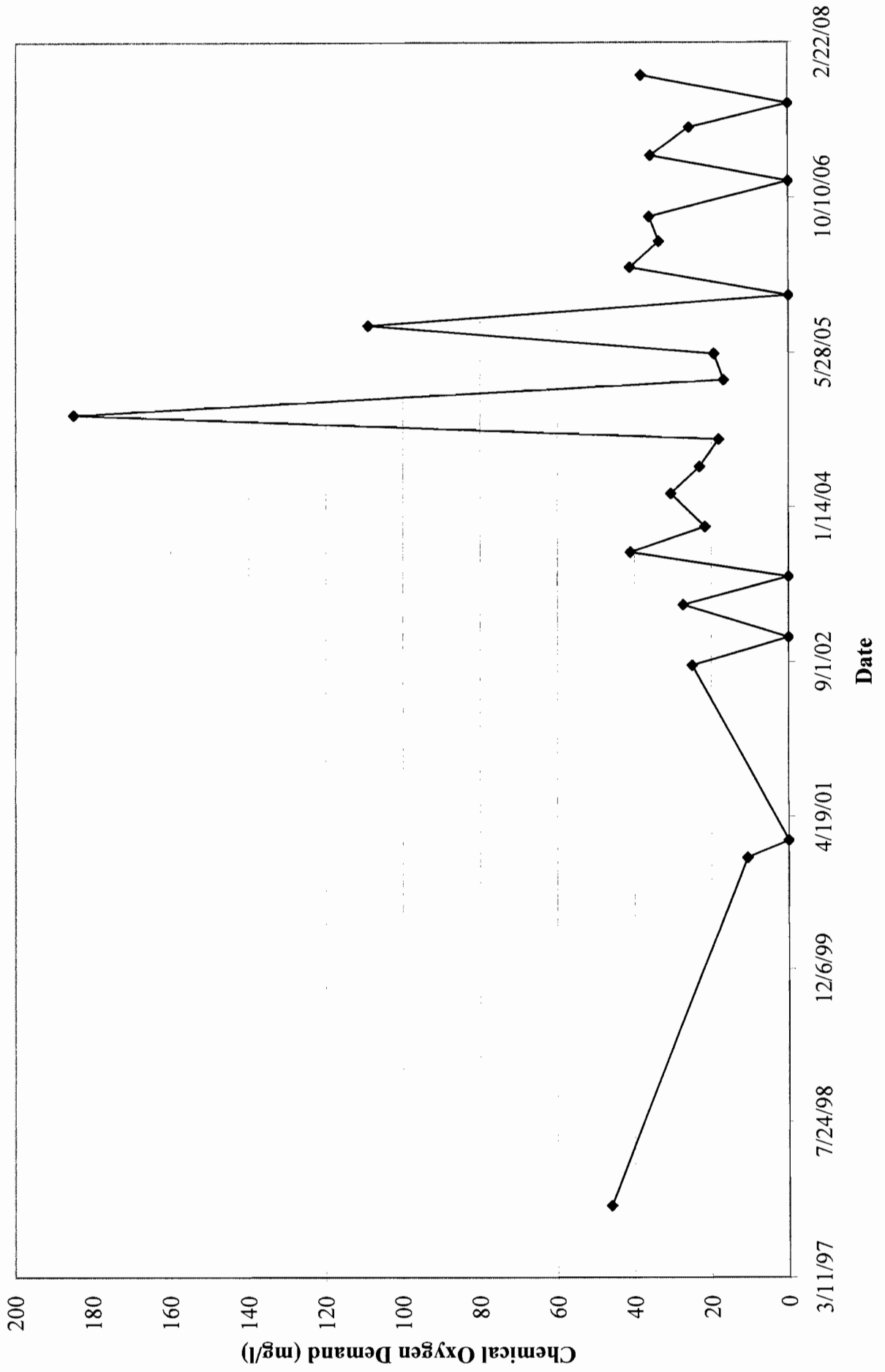
BIOCHEMICAL OXYGEN DEMAND IN MW-06S



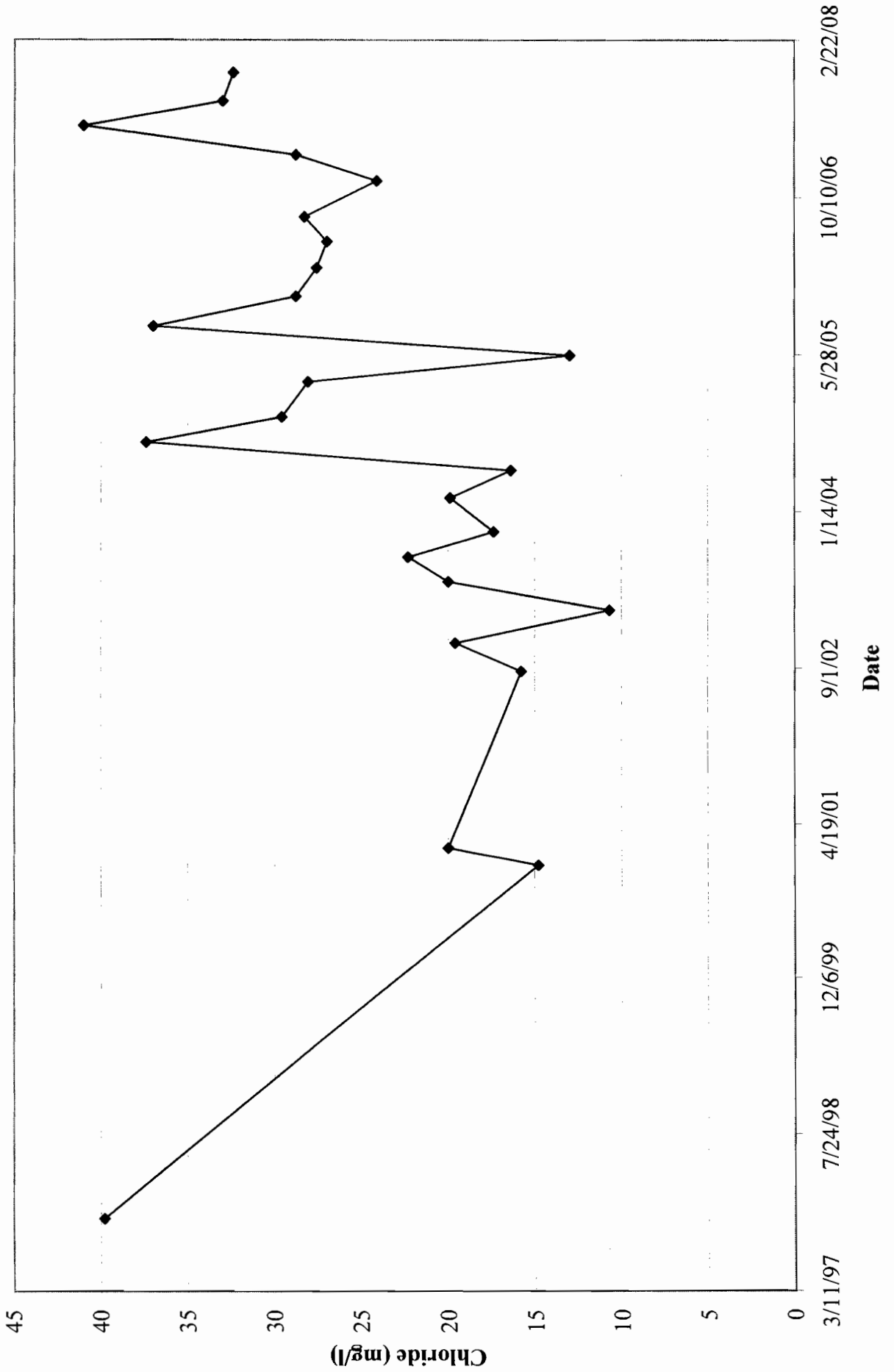
BROMIDE IN MW-06S



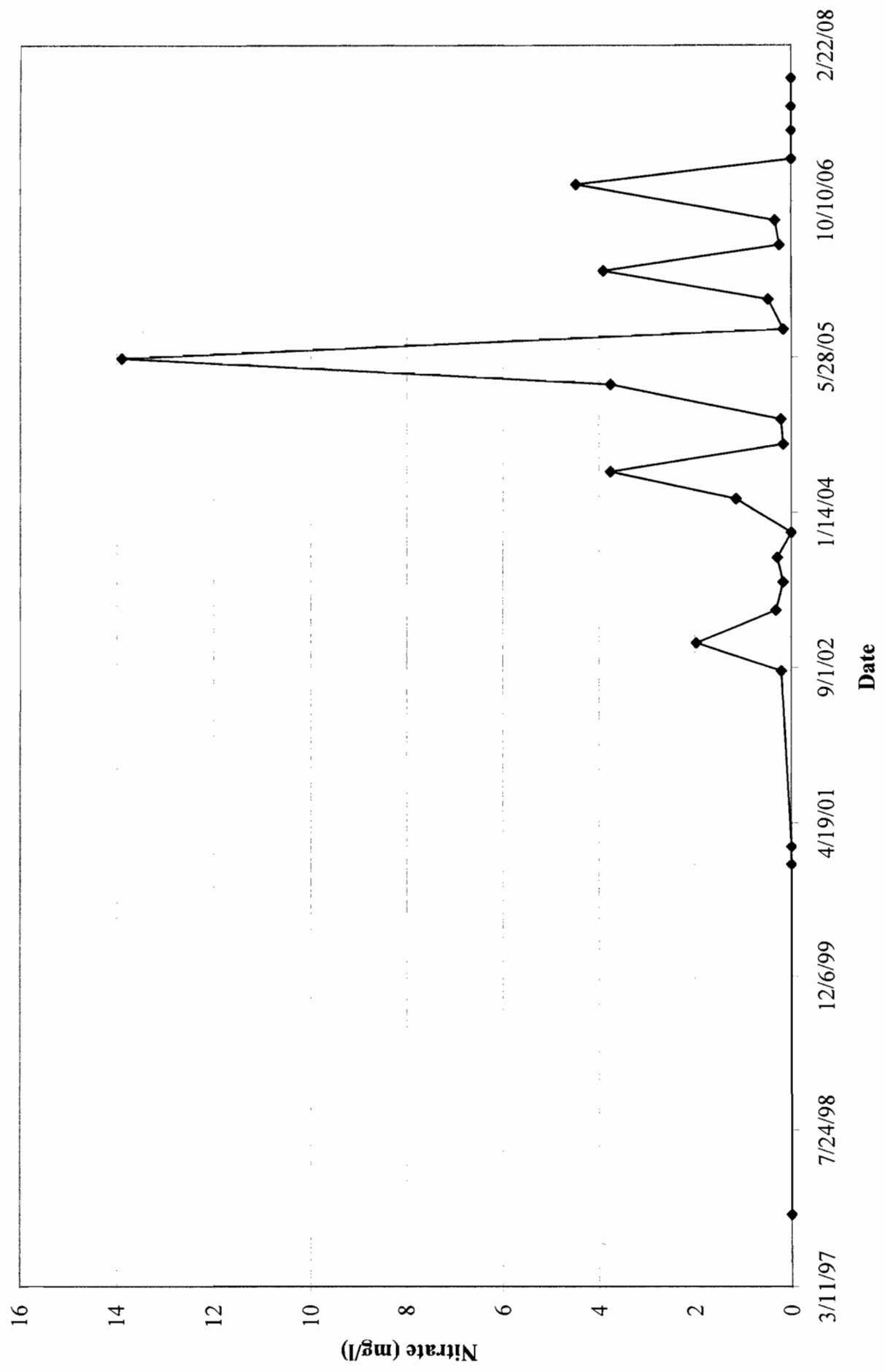
CHEMICAL OXYGEN DEMAND IN MW-06S



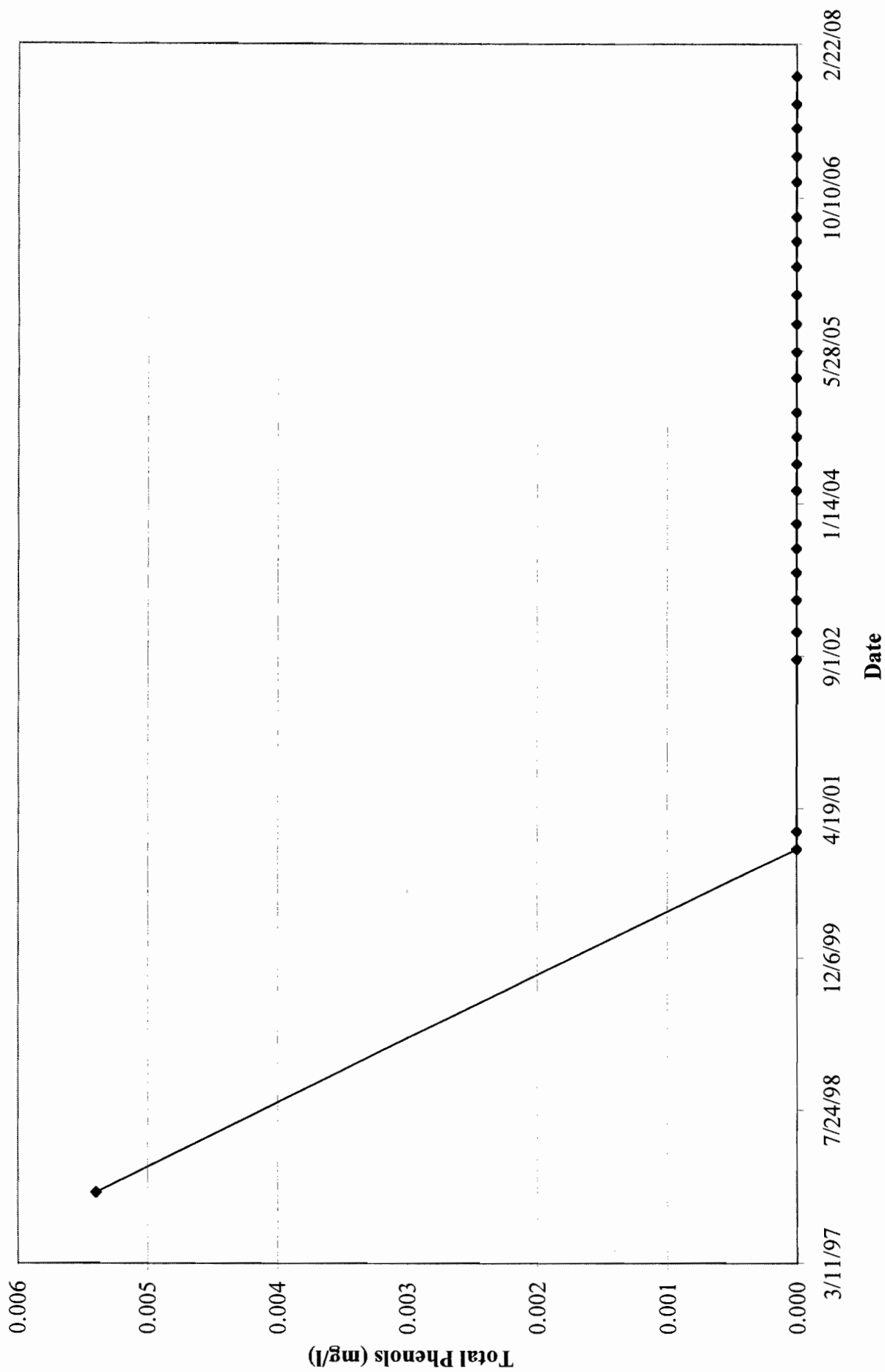
CHLORIDE IN MW-06S



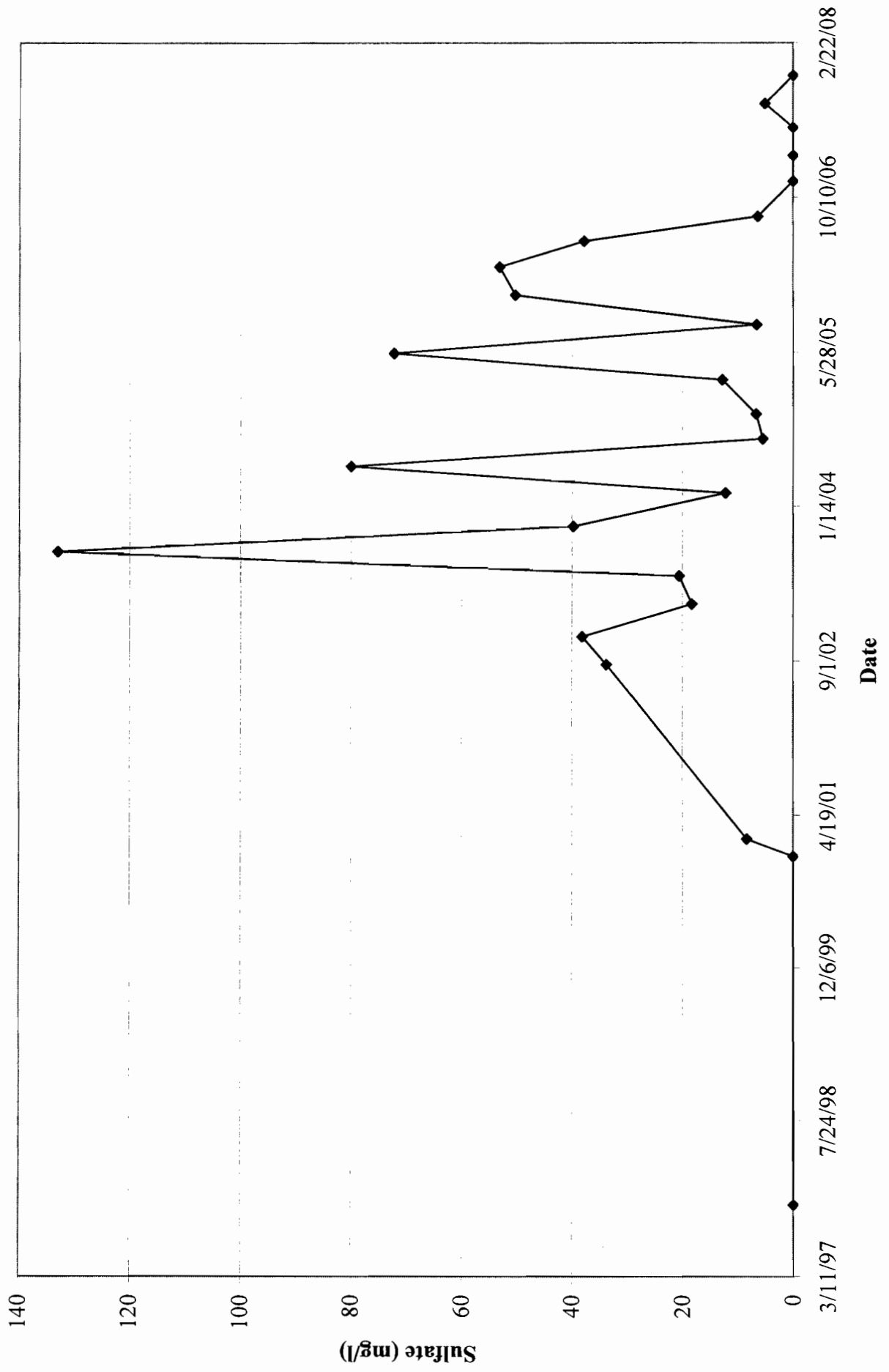
NITRATE IN MW-06S



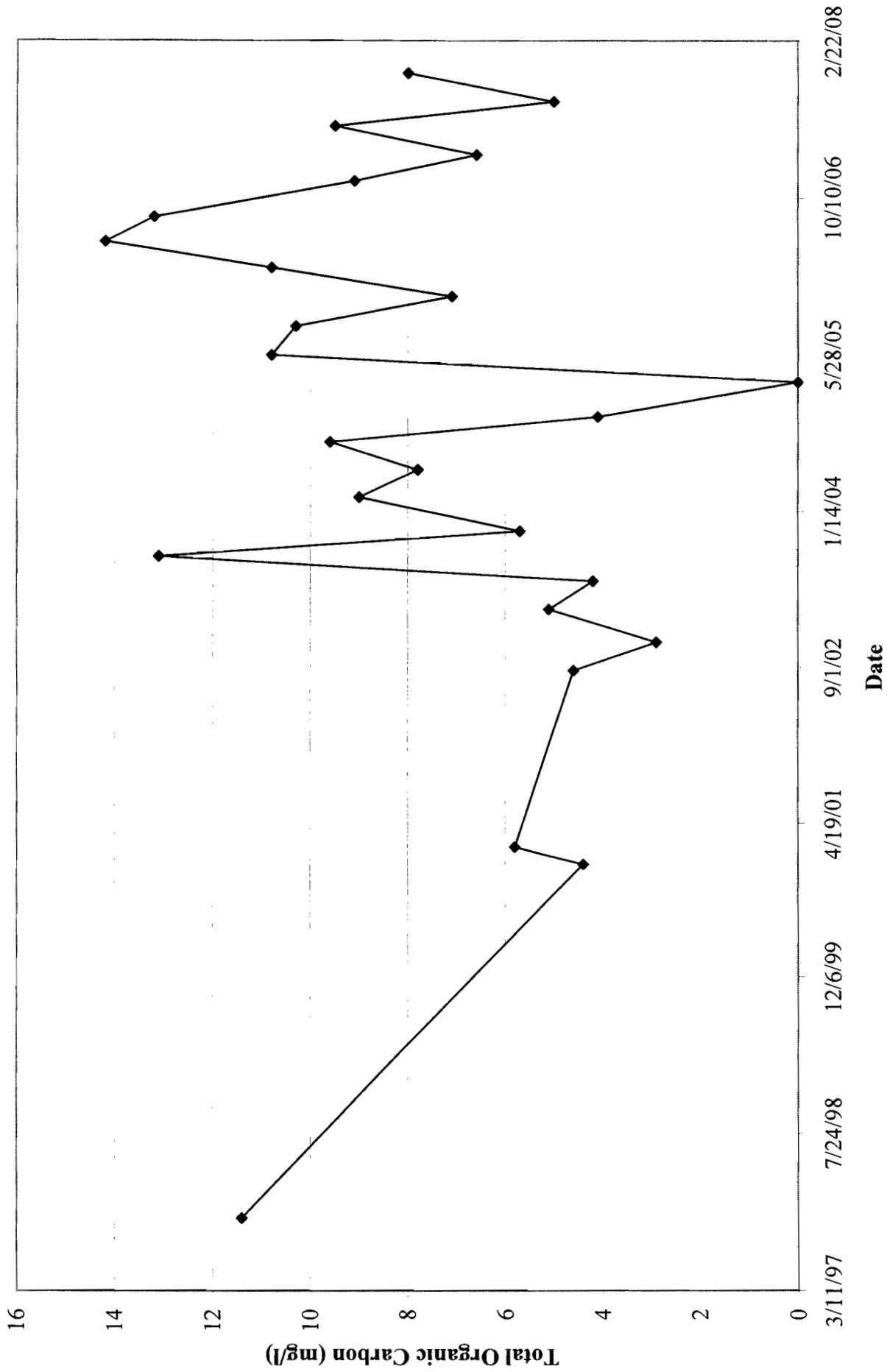
TOTAL PHENOLS IN MW-06S



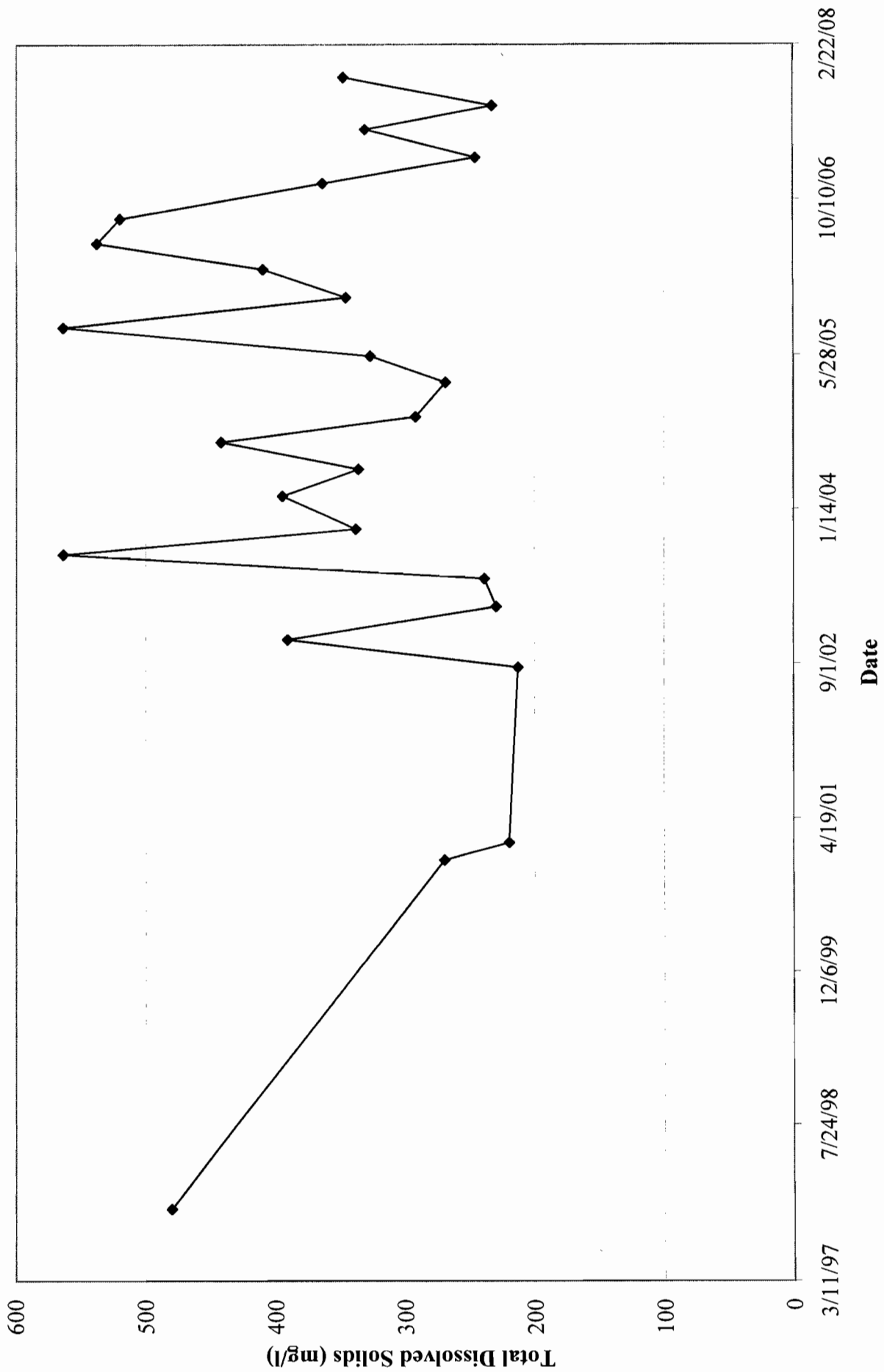
SULFATE IN MW-06S



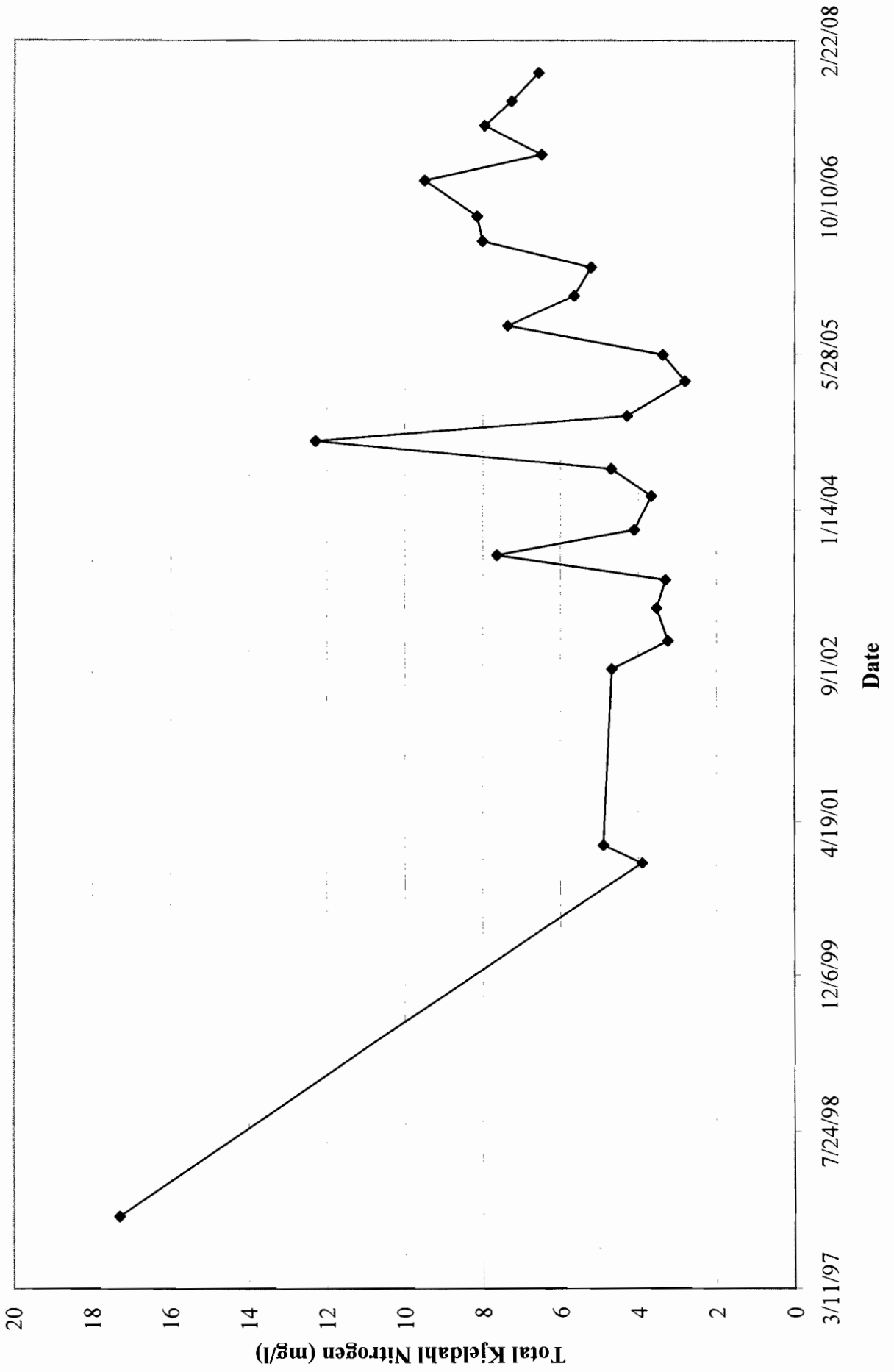
TOTAL ORGANIC CARBON IN MW-06S



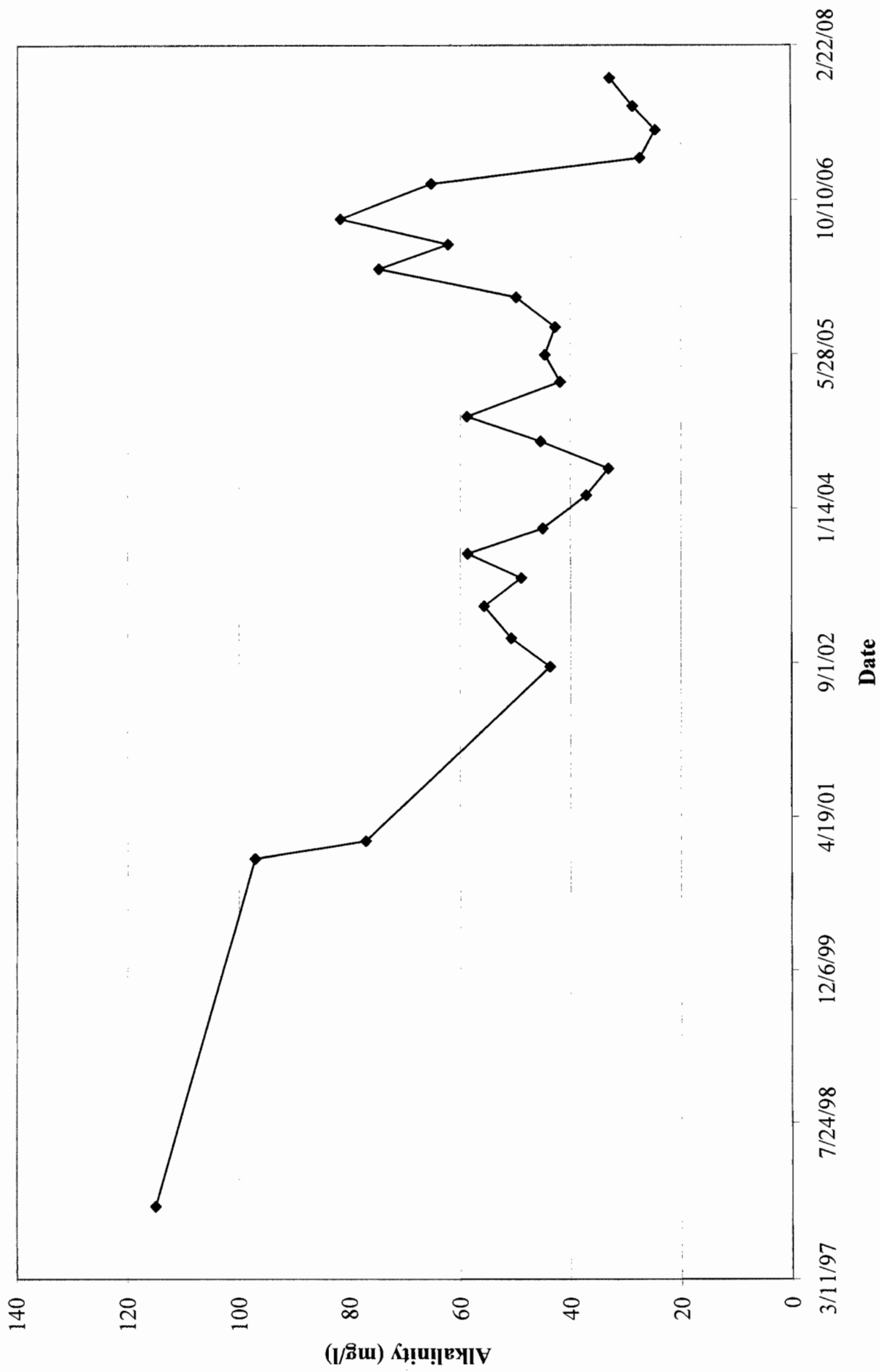
TOTAL DISSOLVED SOLIDS IN MW-06S



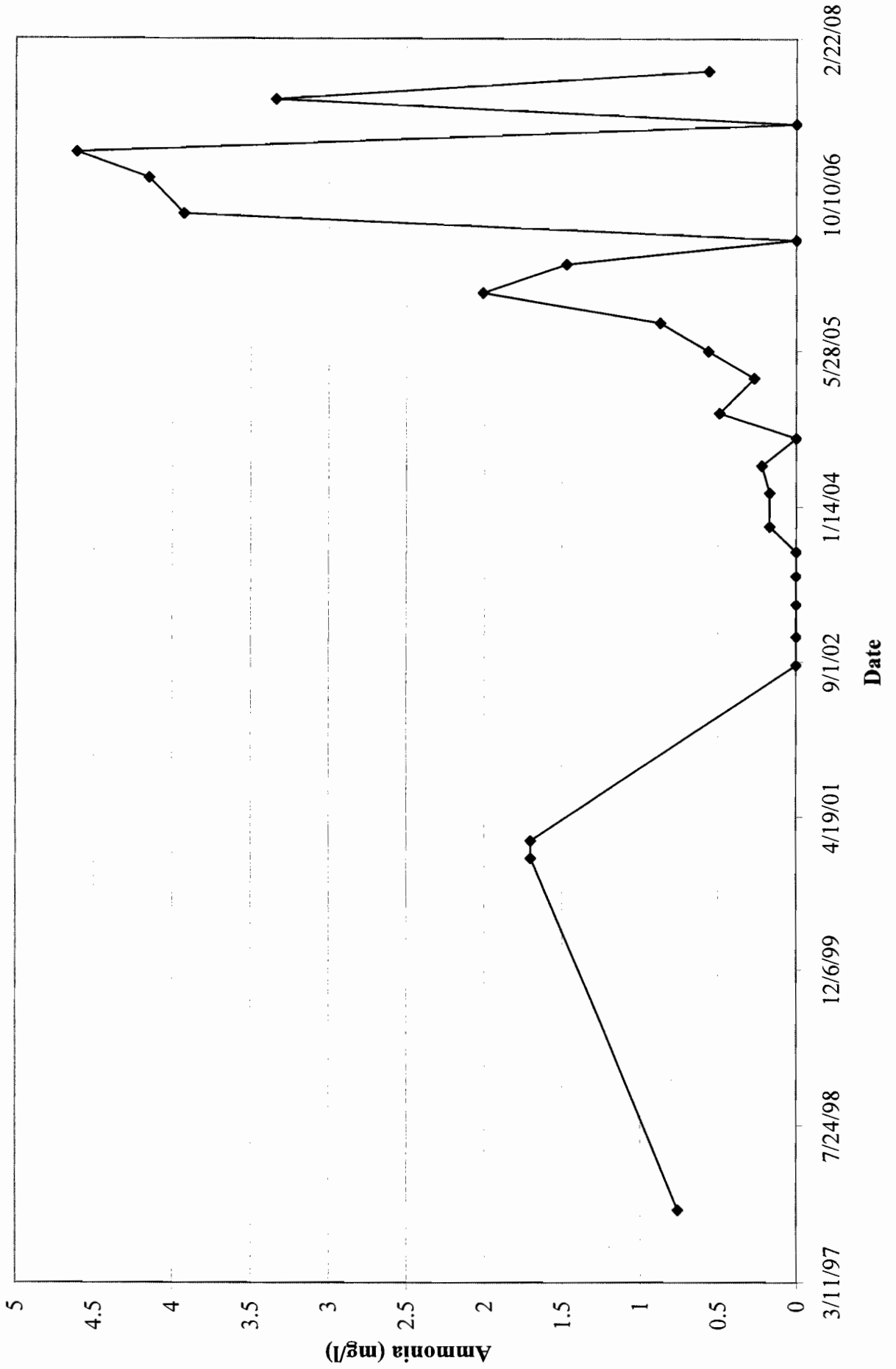
TOTAL KJELDAHL NITROGEN IN MW-06S



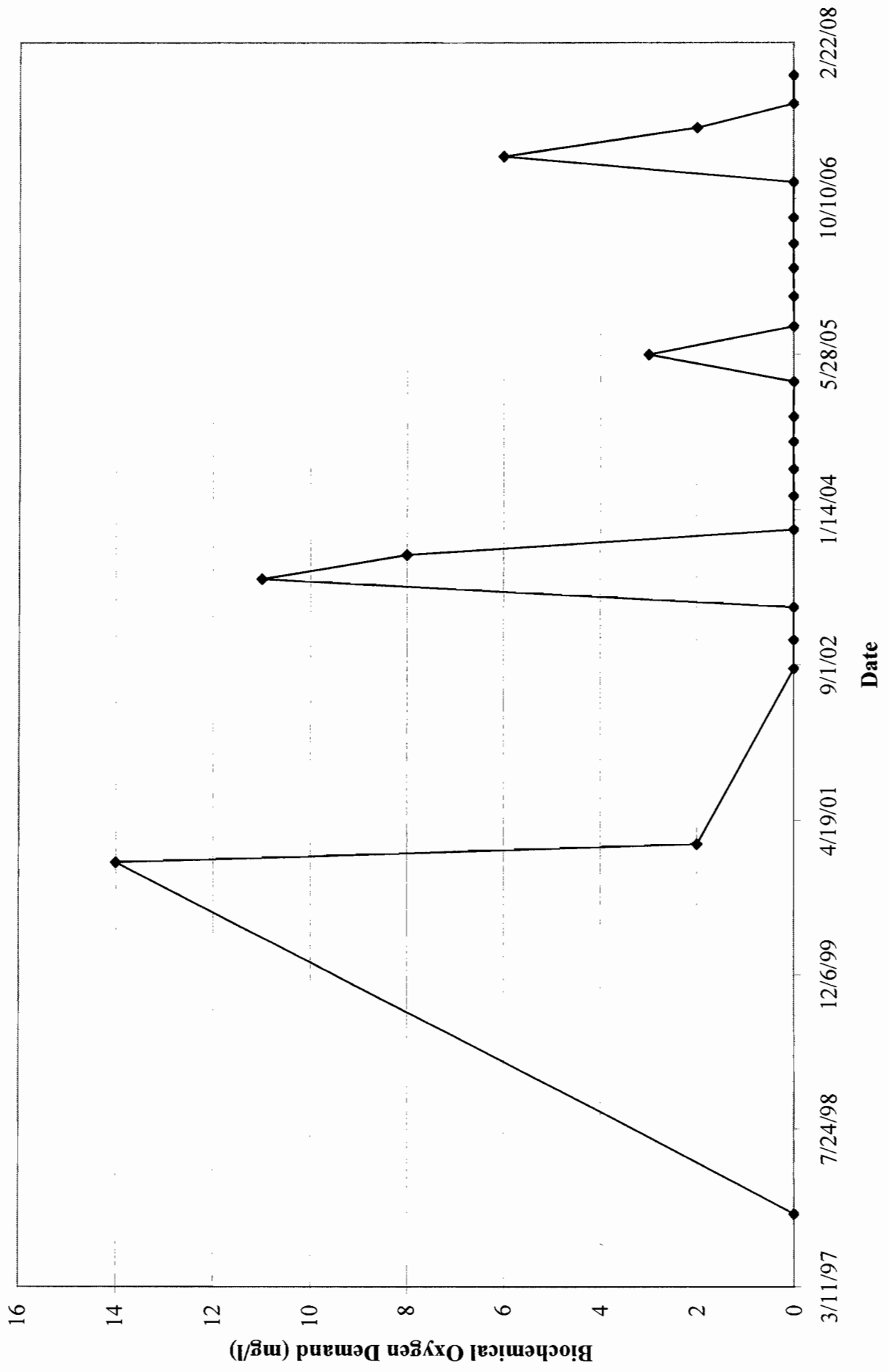
ALKALINITY IN MW-06I



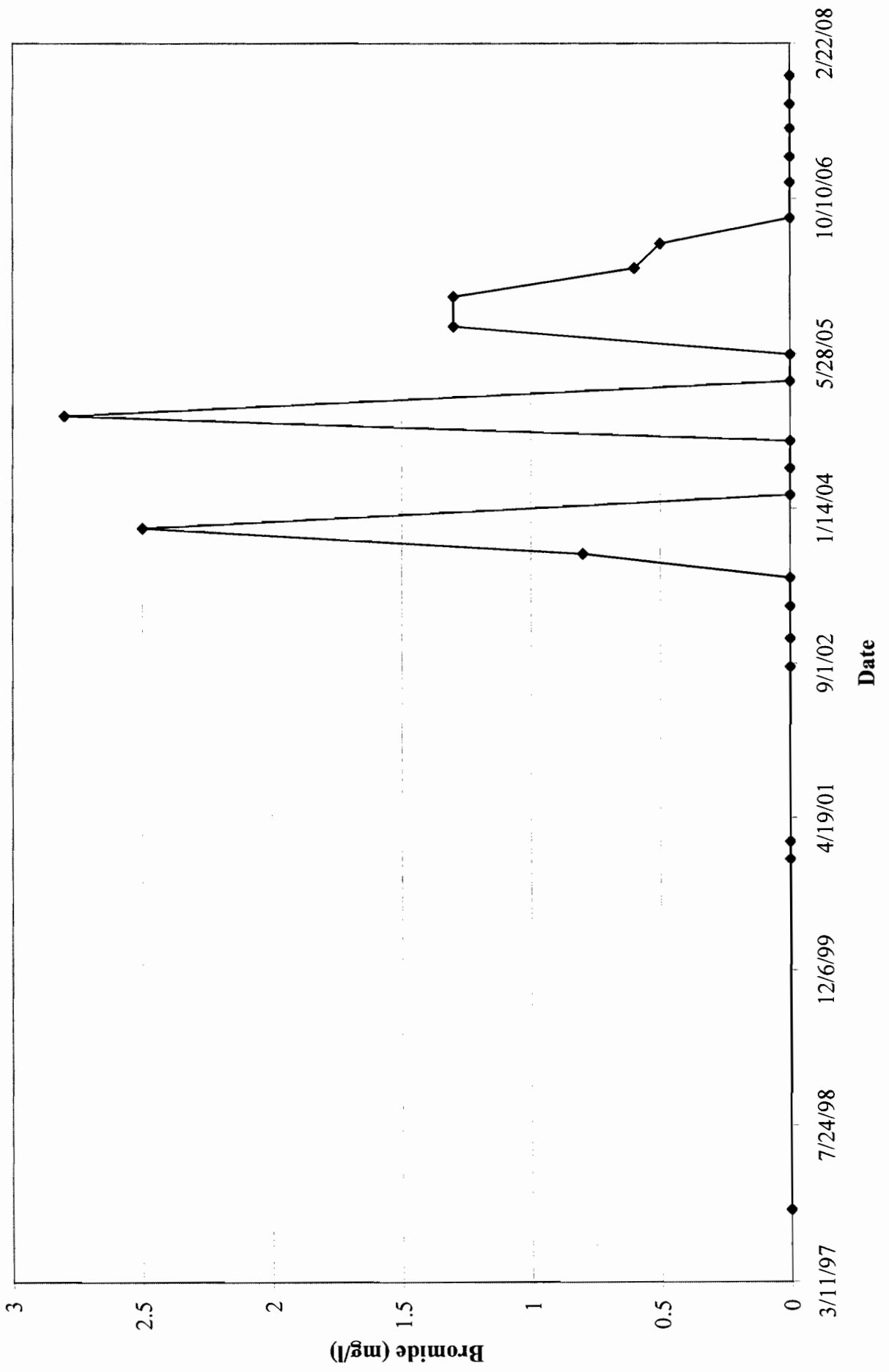
AMMONIA IN MW-06I



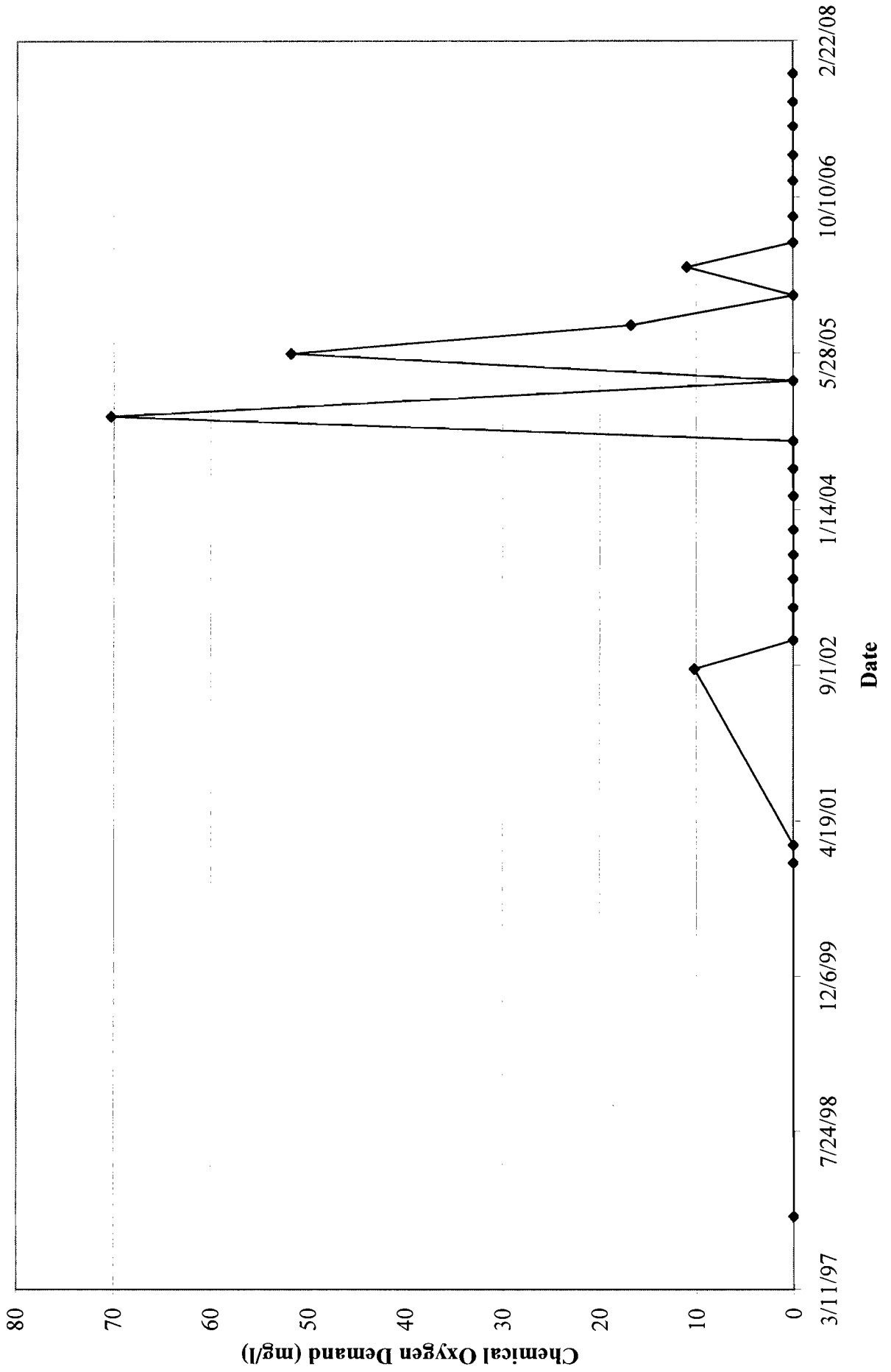
BIOCHEMICAL OXYGEN DEMAND IN MW-06I



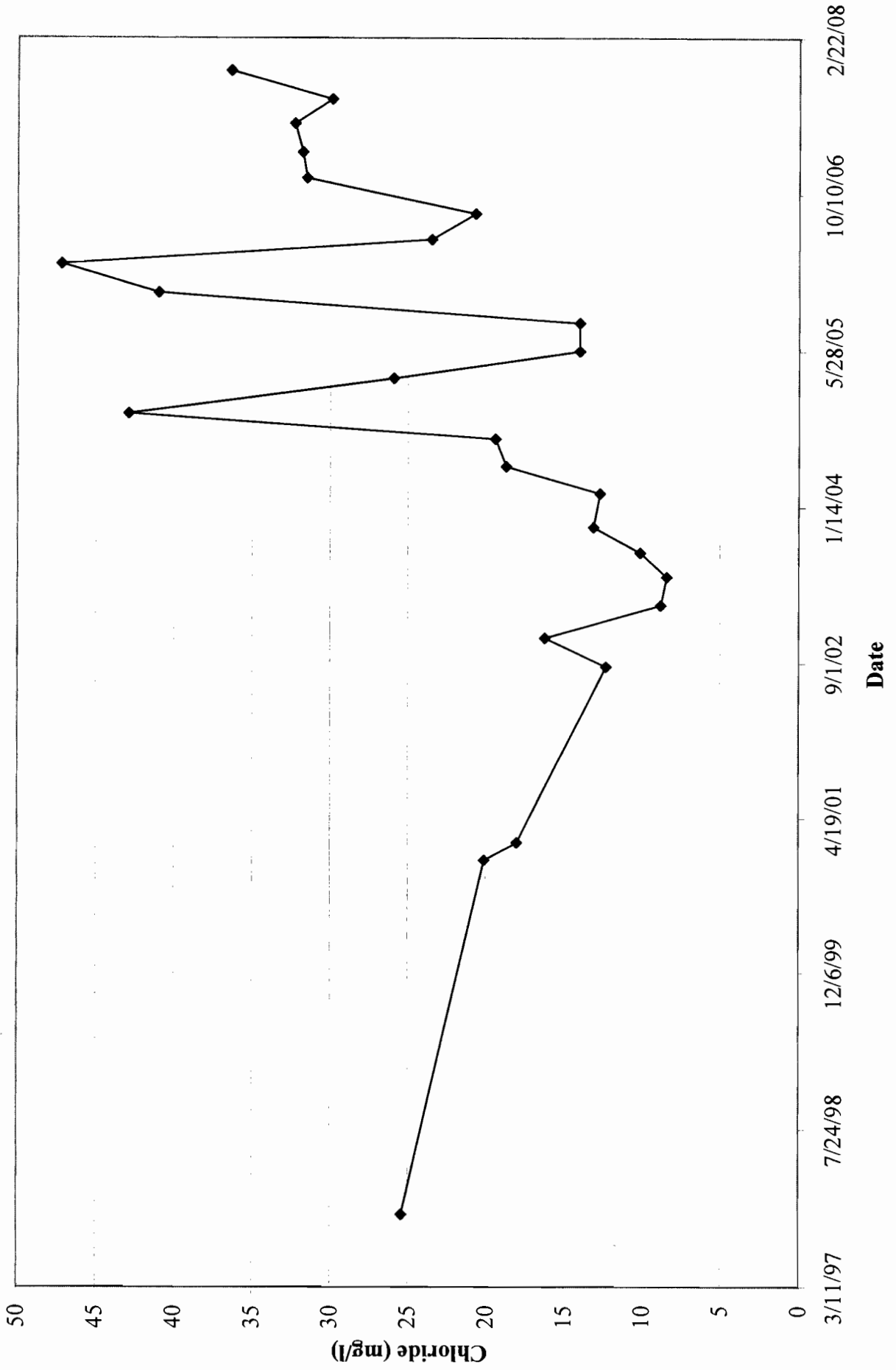
BROMIDE IN MW-06I



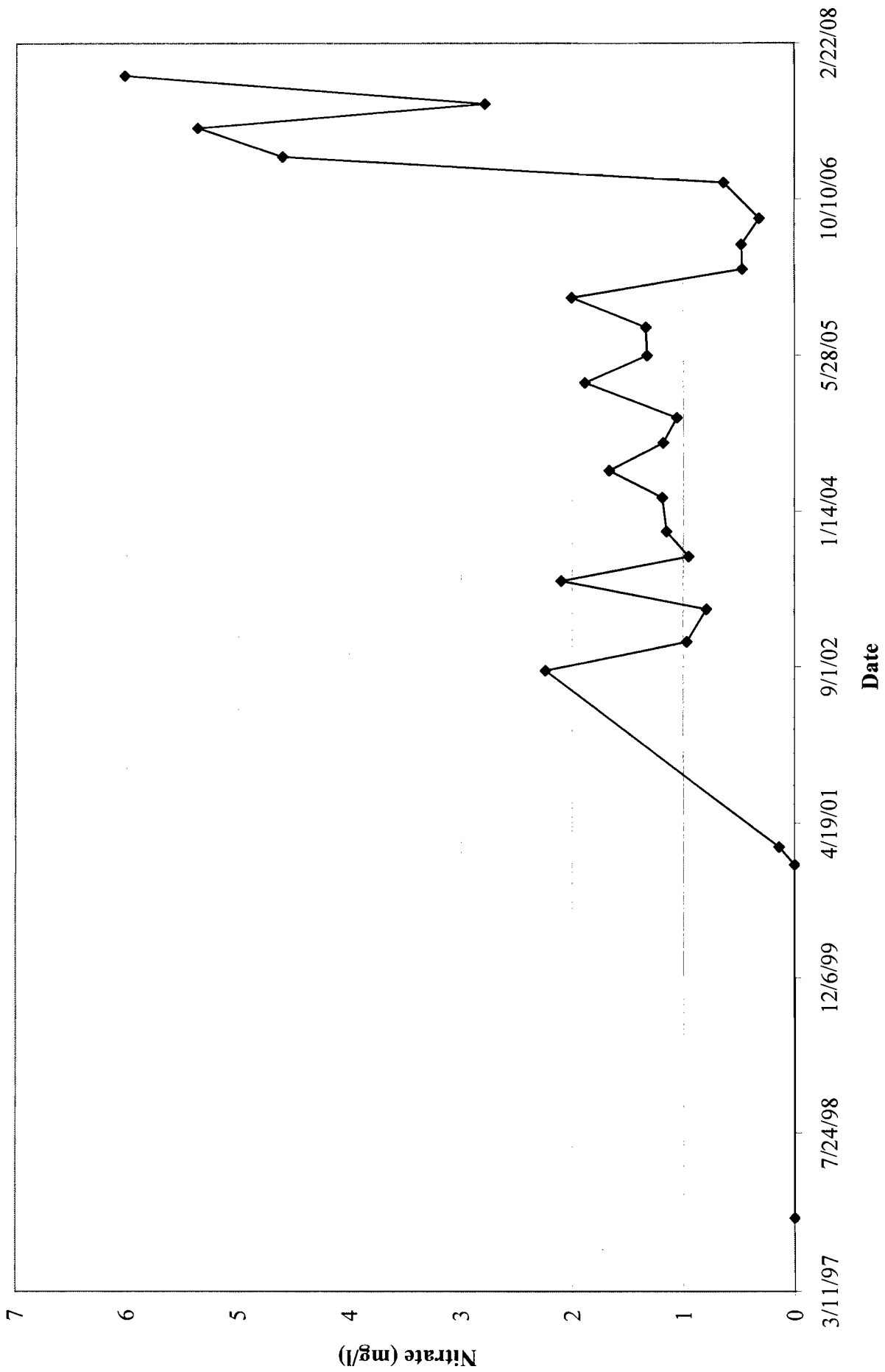
CHEMICAL OXYGEN DEMAND IN MW-06I



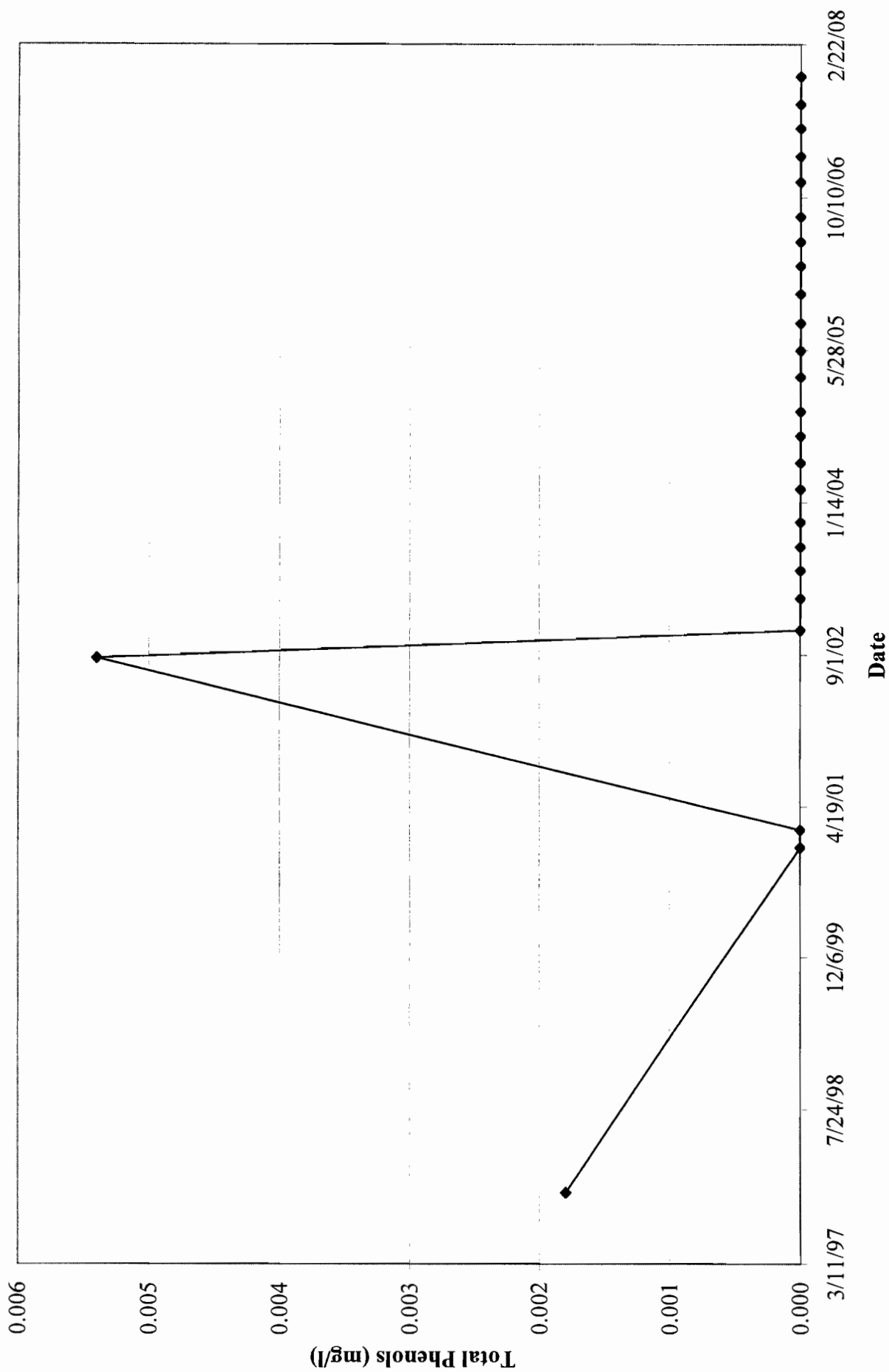
CHLORIDE IN MW-06I



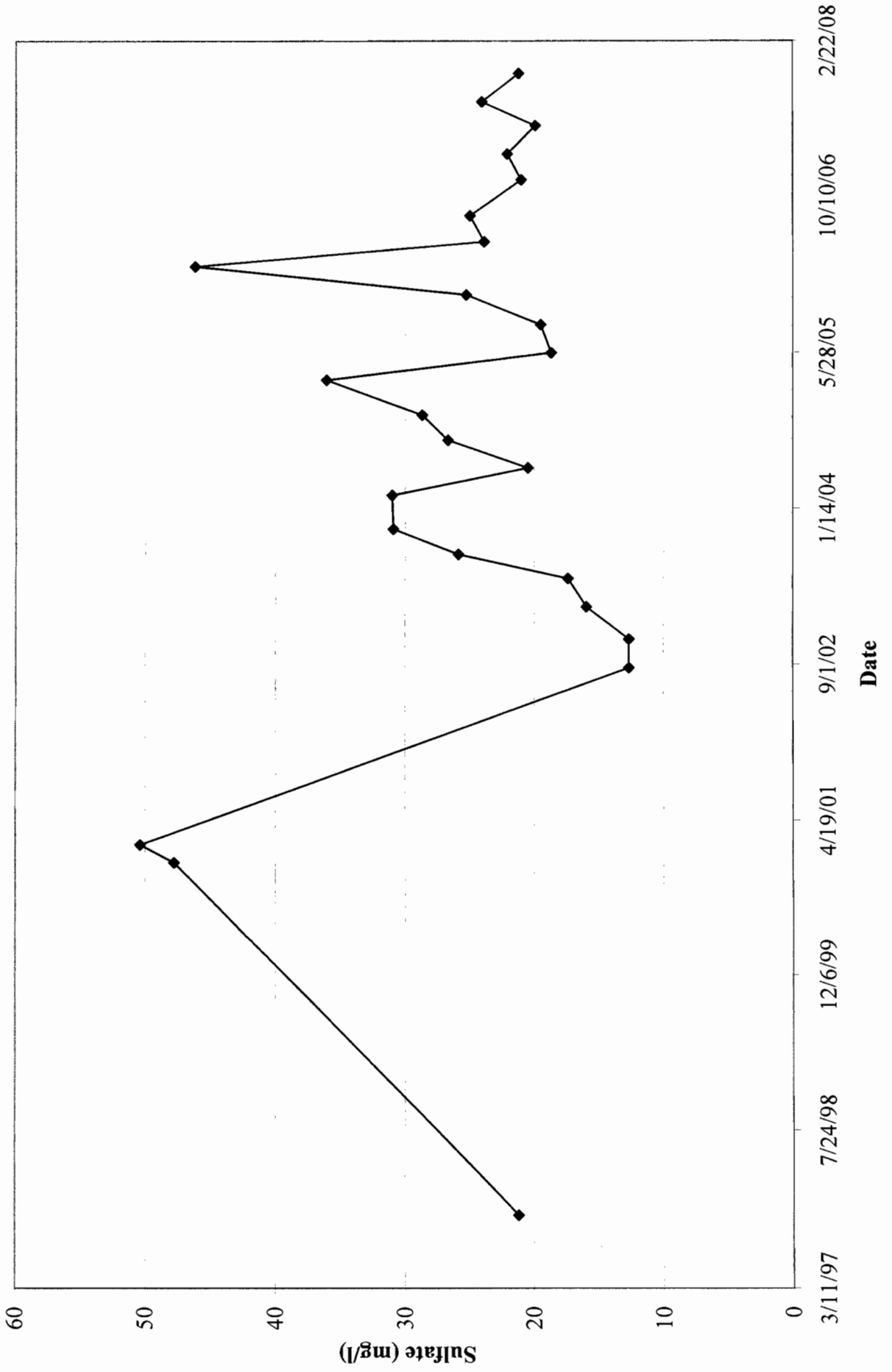
NITRATE IN MW-06I



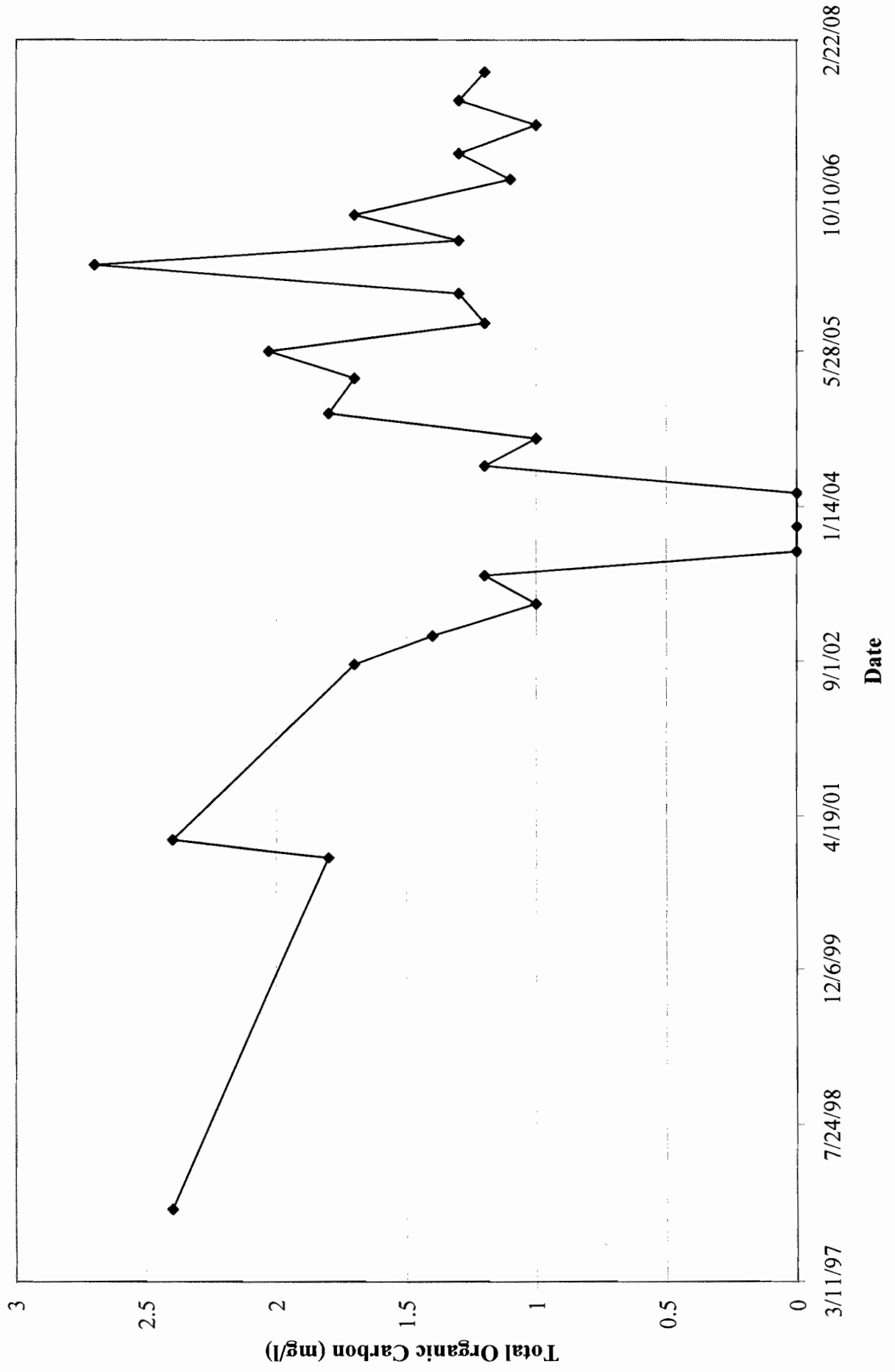
TOTAL PHENOLS IN MW-06I



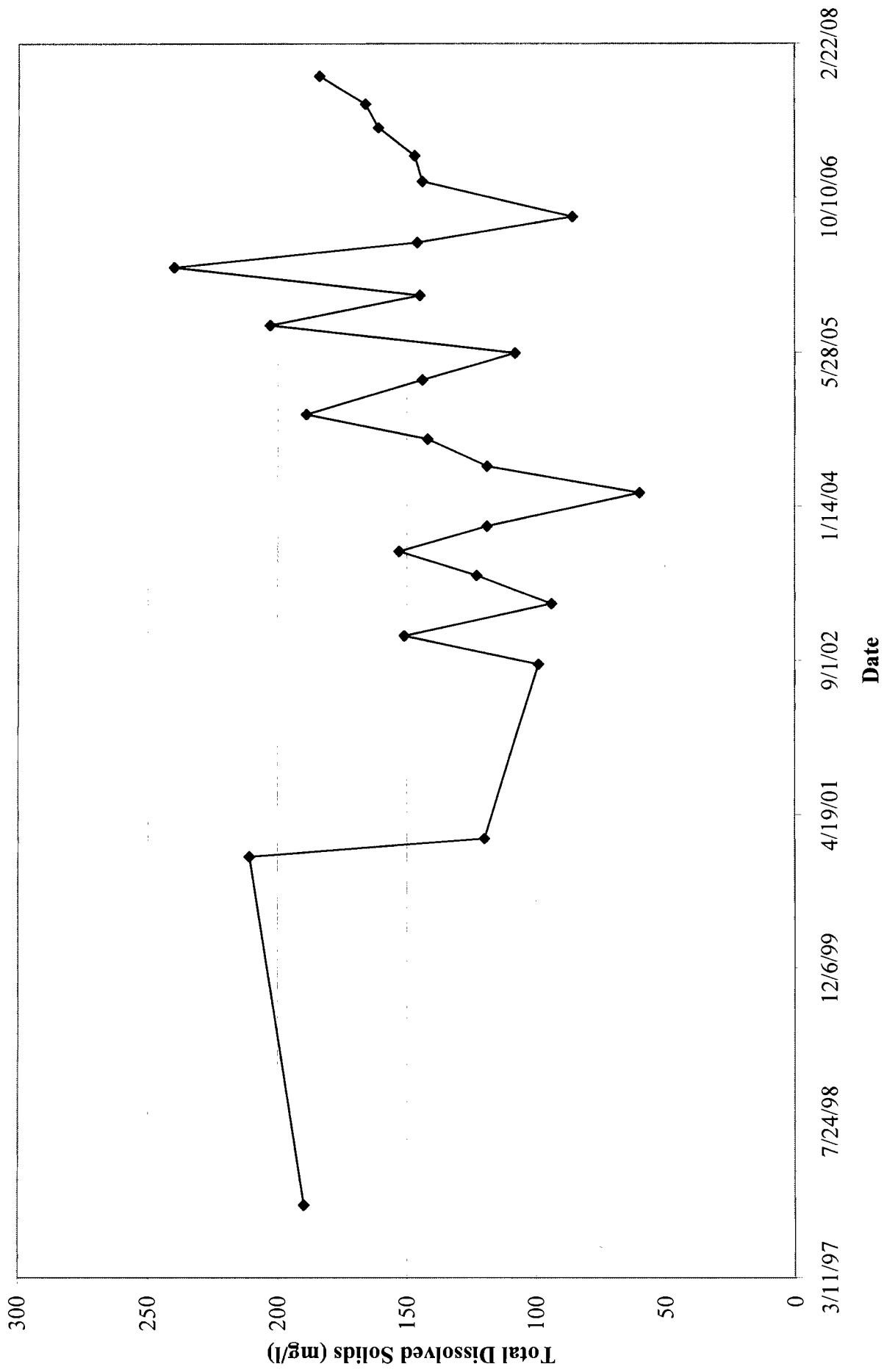
SULFATE IN MW-06I



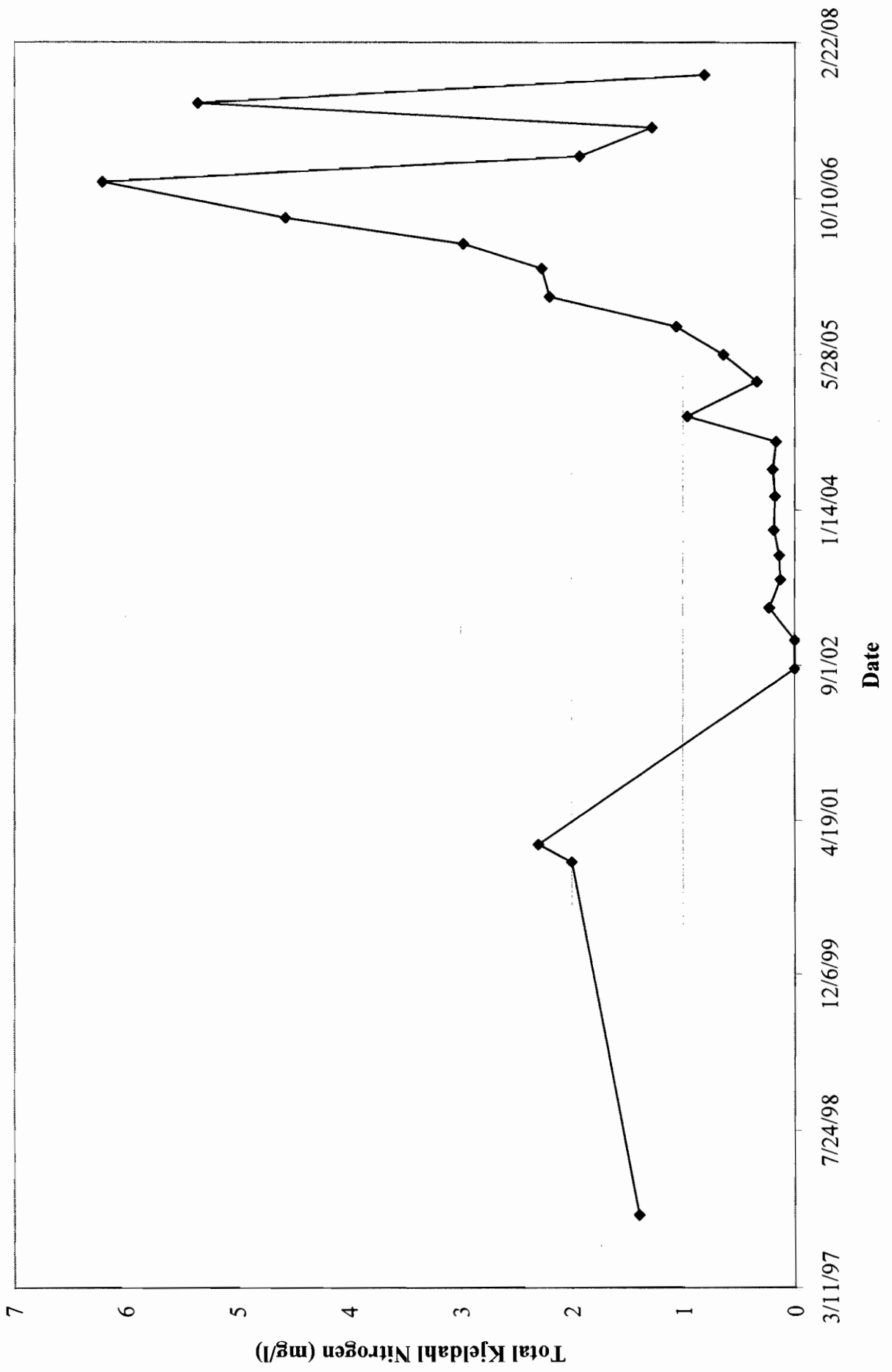
TOTAL ORGANIC CARBON IN MW-06I



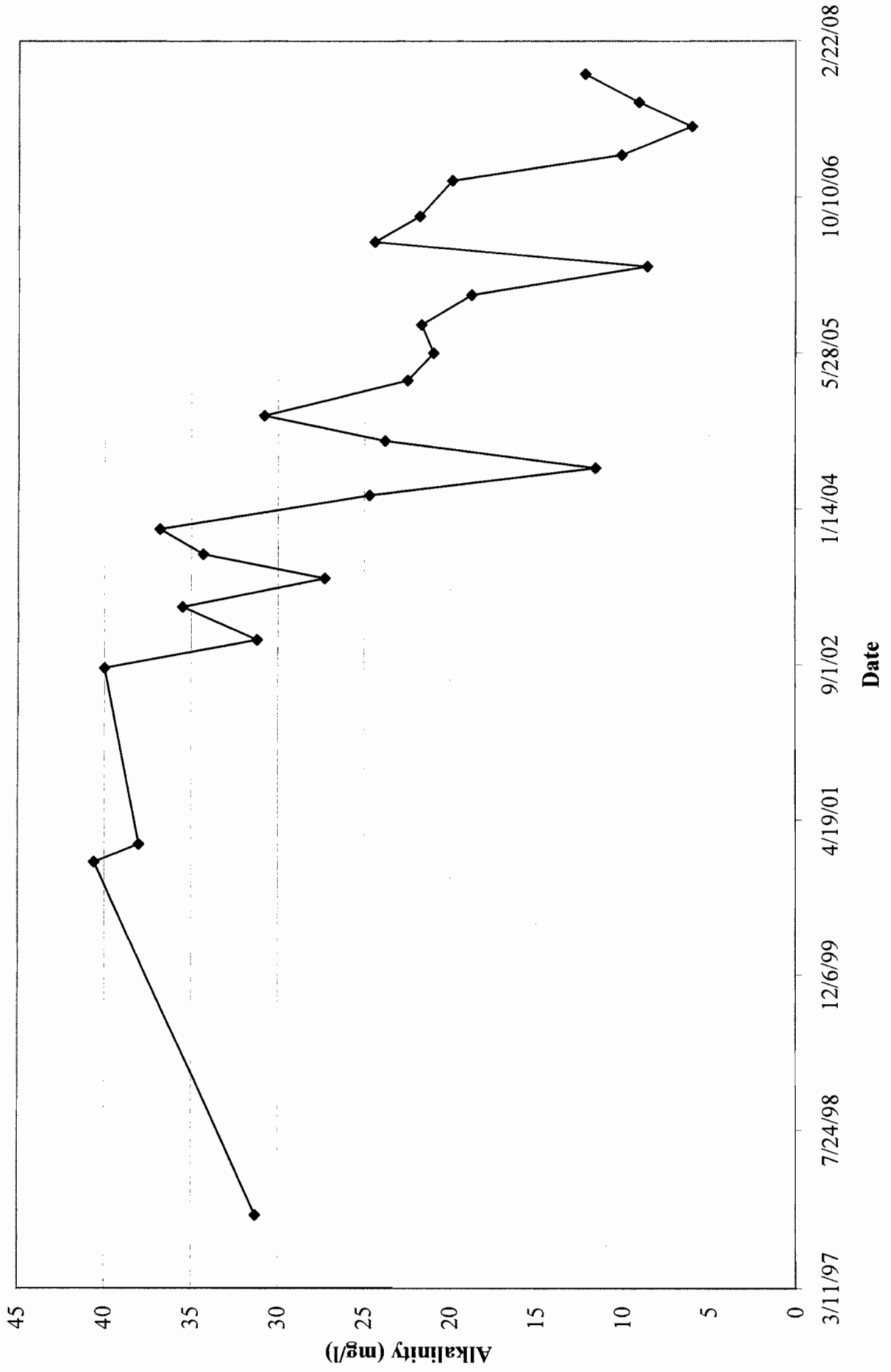
TOTAL DISSOLVED SOLIDS IN MW-06I



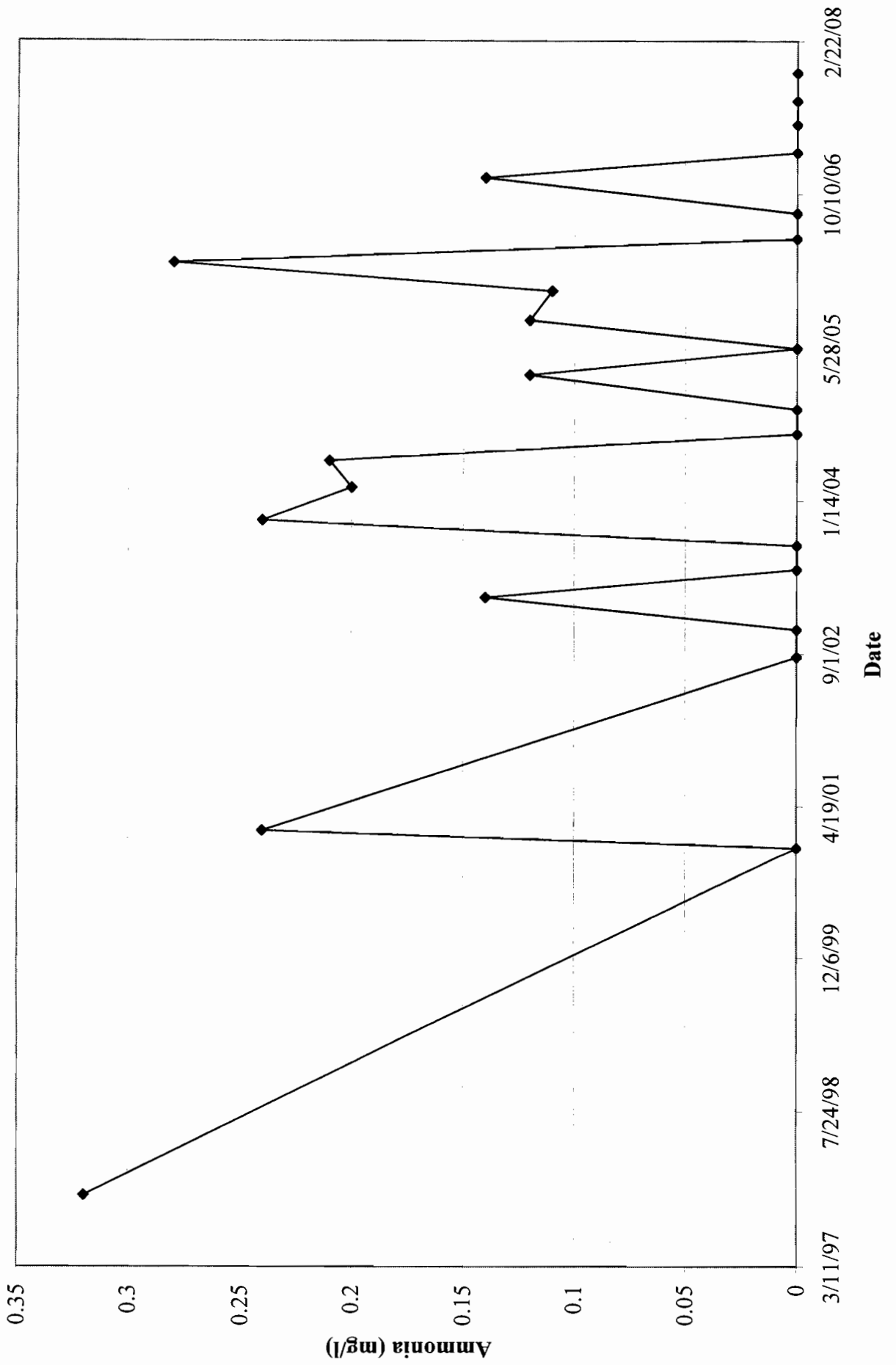
TOTAL KJELDAHL NITROGEN IN MW-061



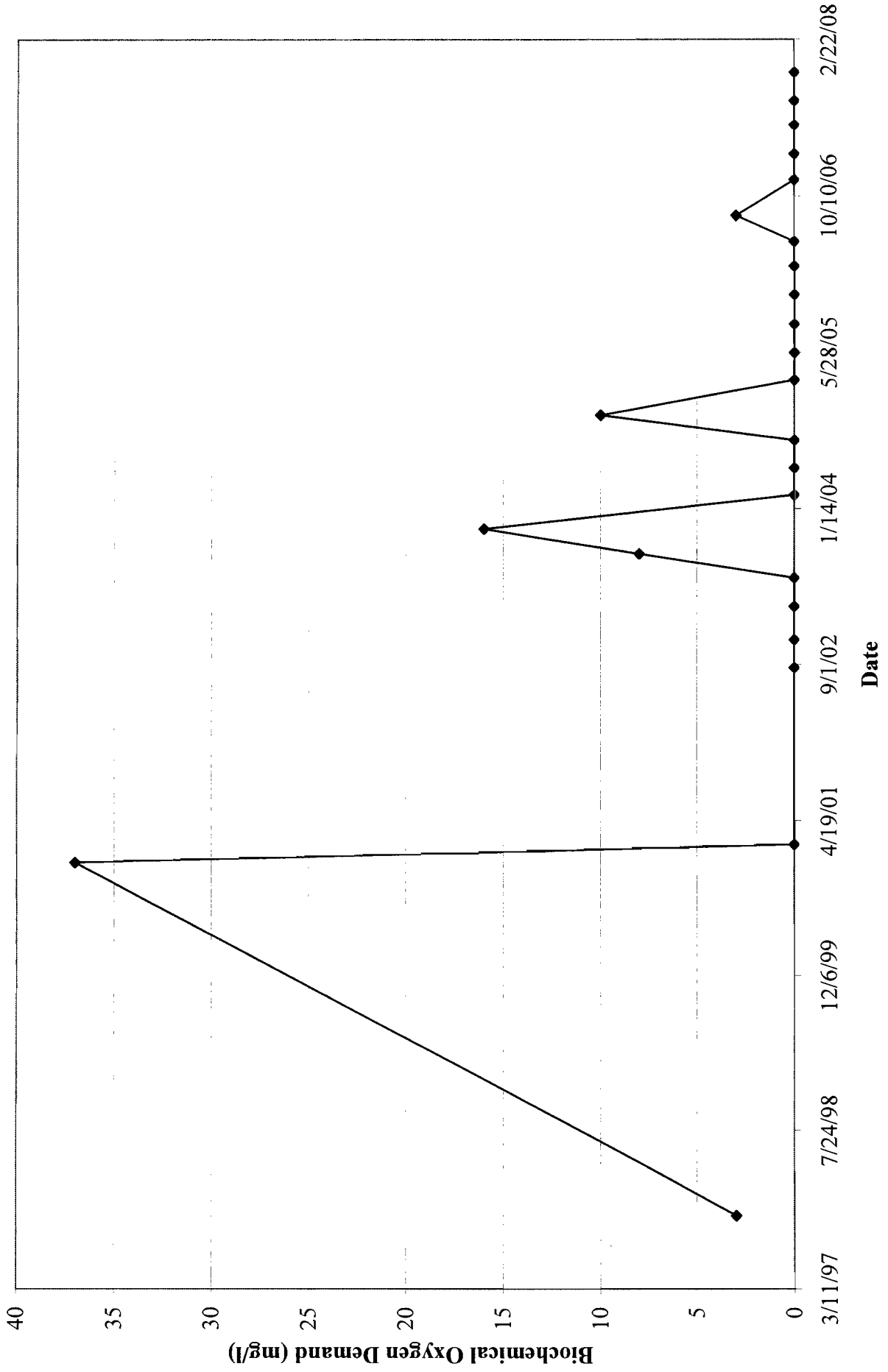
ALKALINITY IN MW-06D



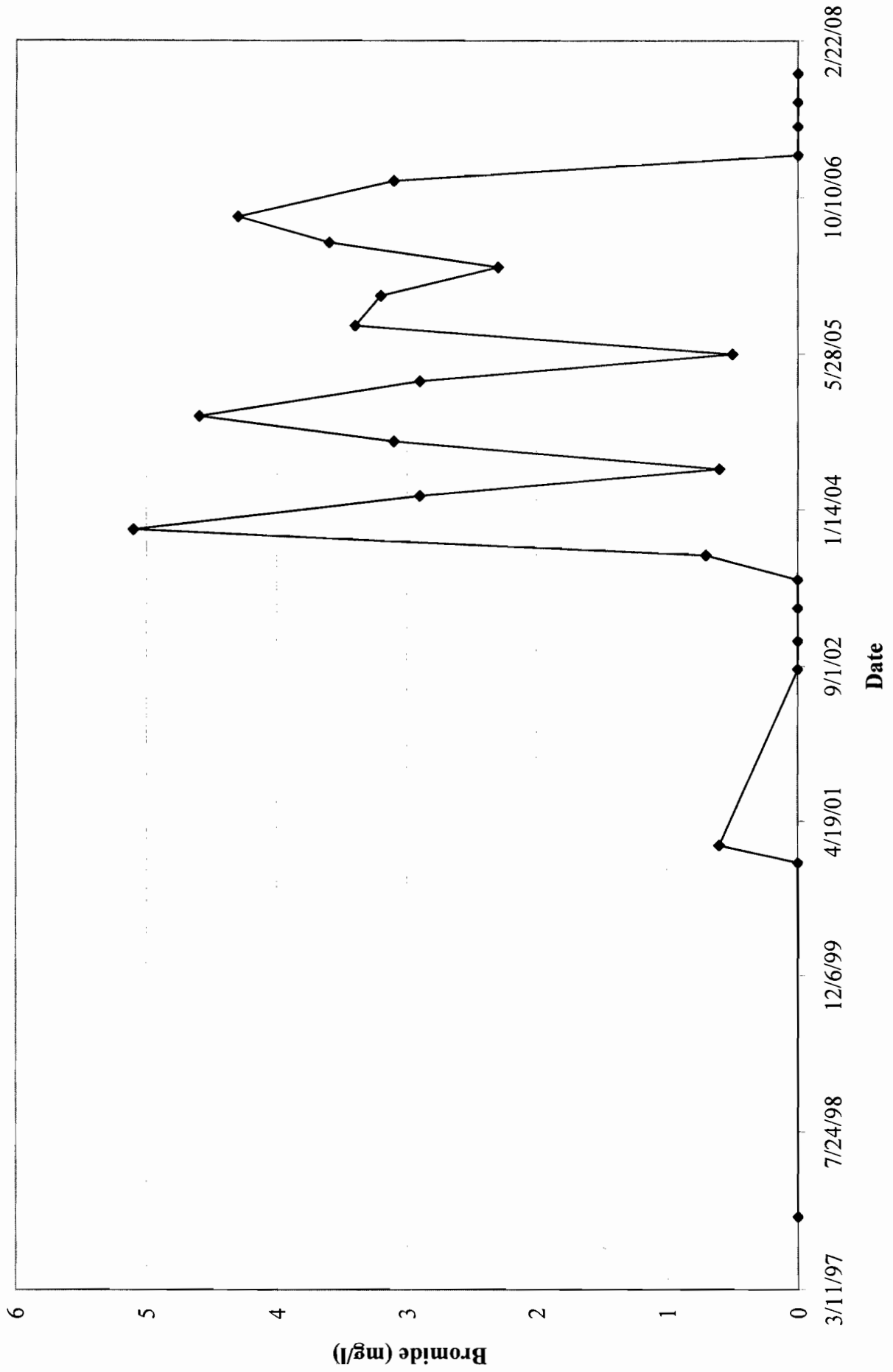
AMMONIA IN MW-06D



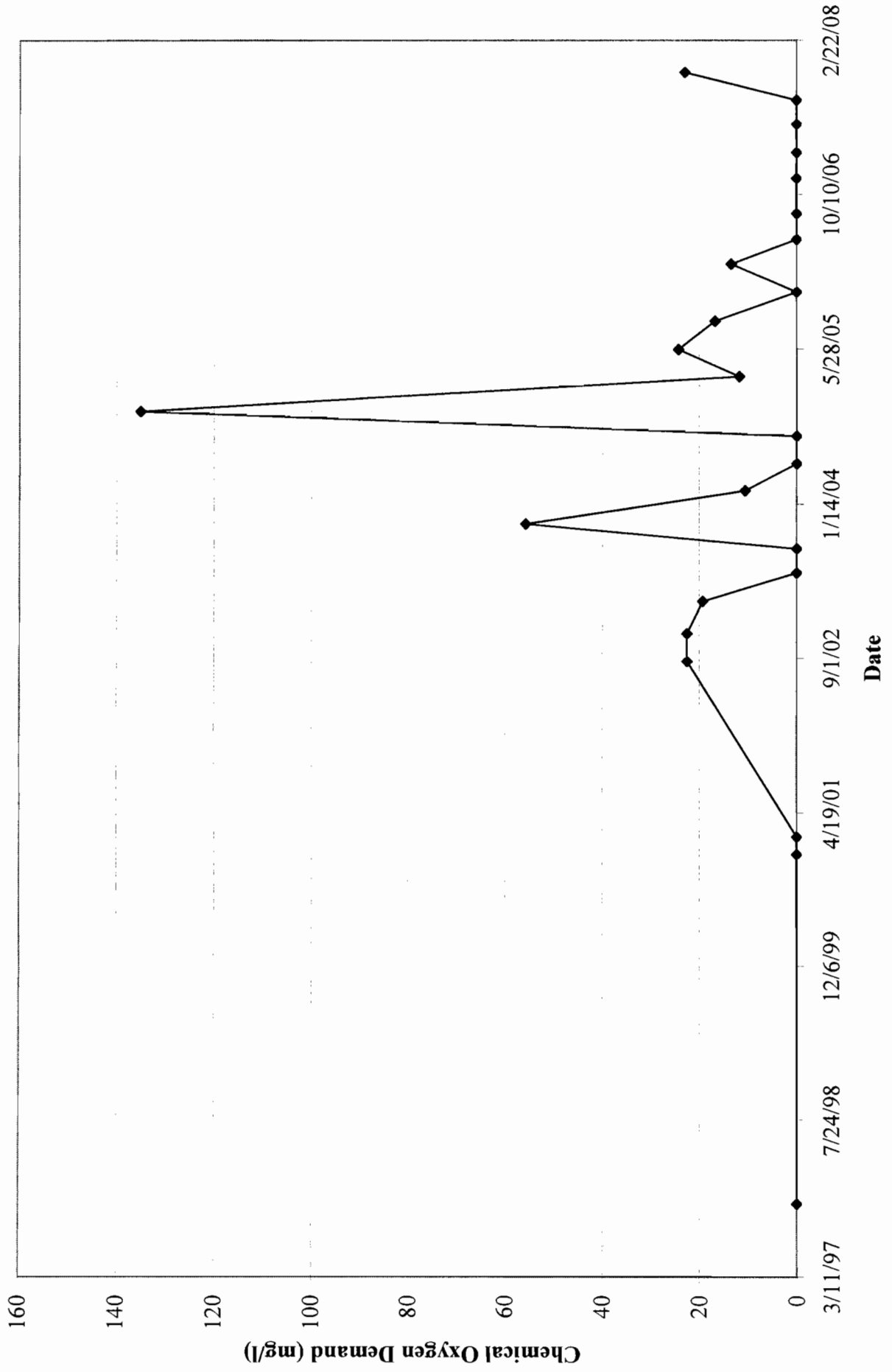
BIOCHEMICAL OXYGEN DEMAND IN MW-06D



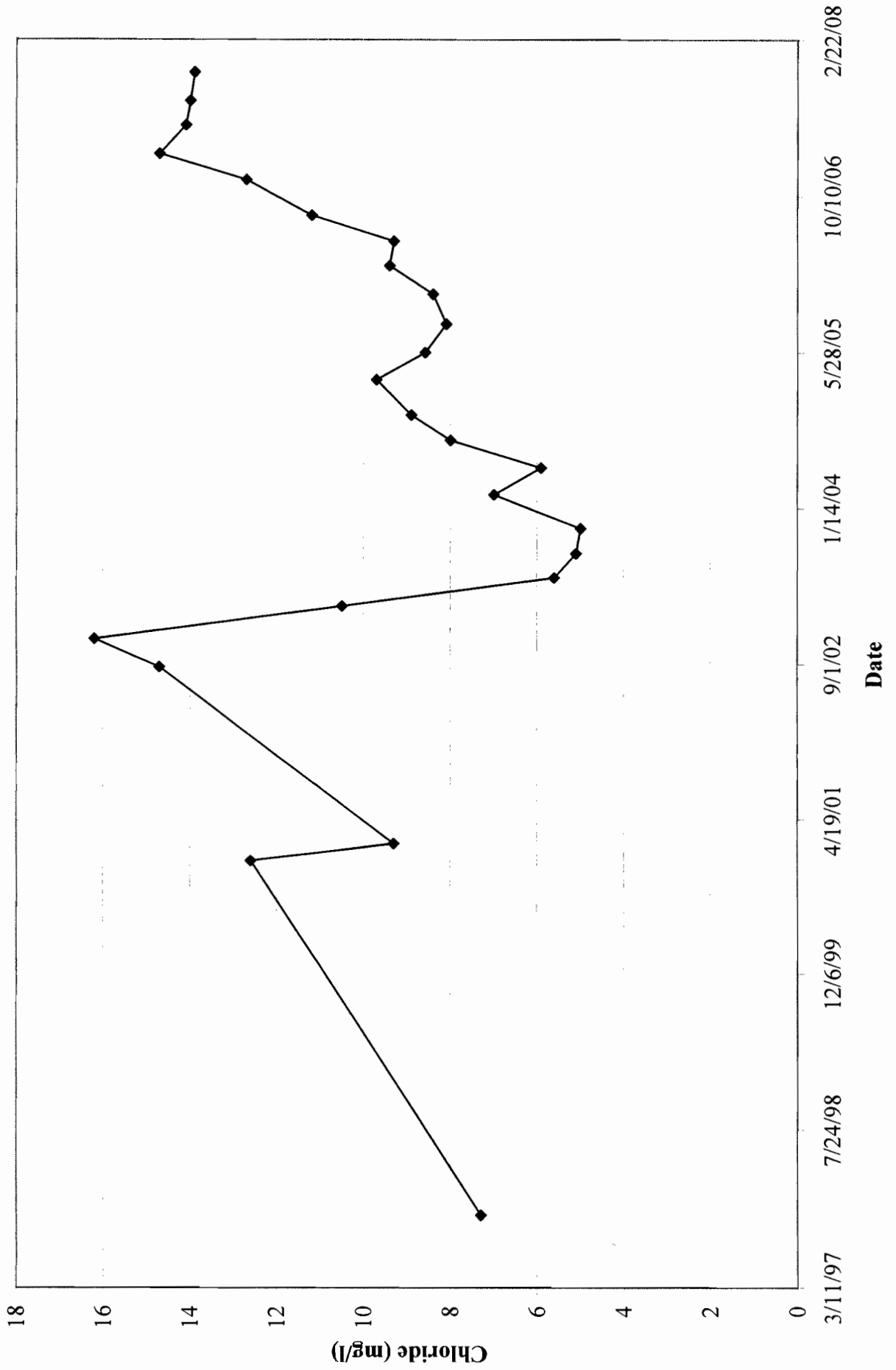
BROMIDE IN MW-06D



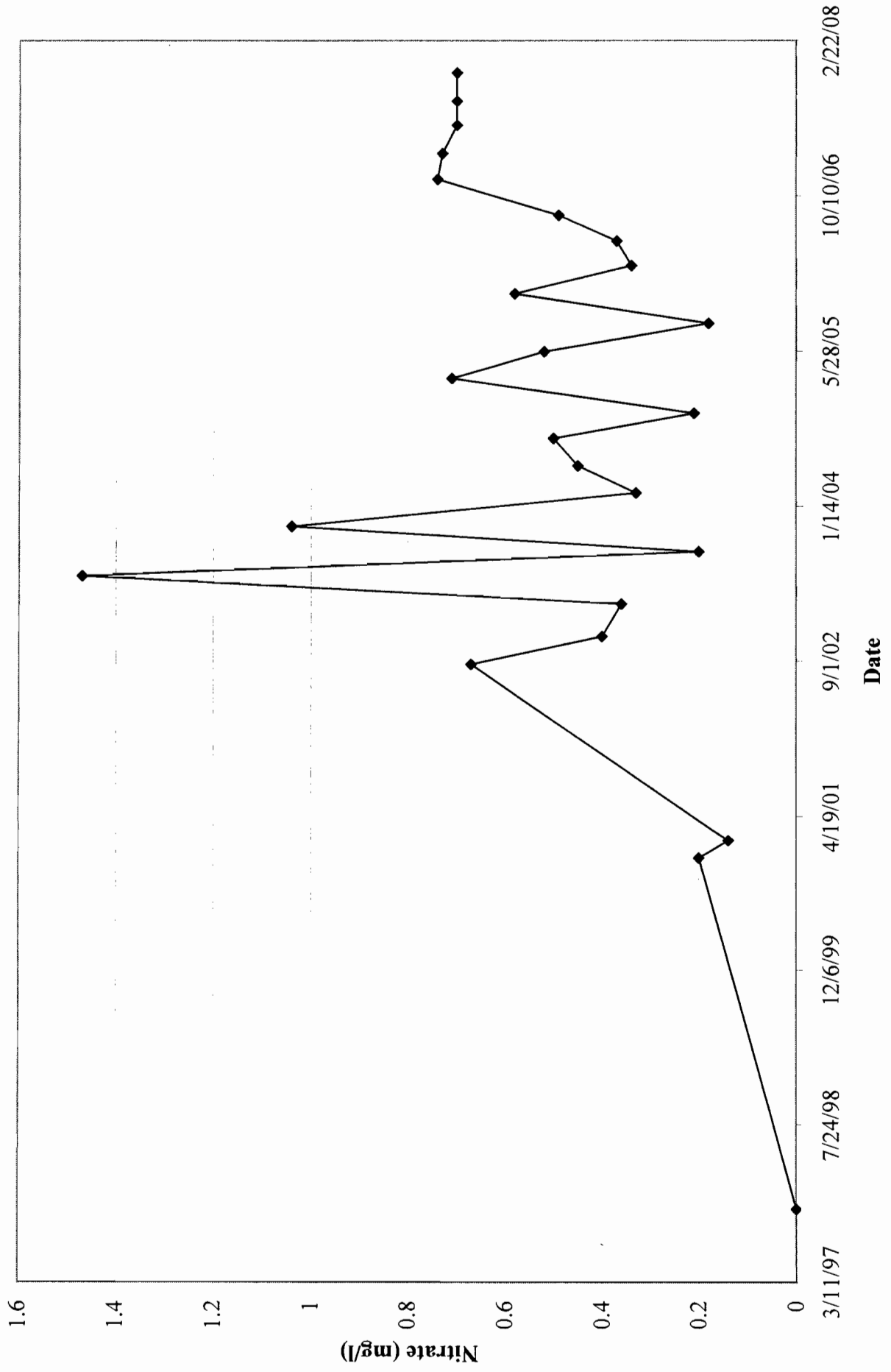
CHEMICAL OXYGEN DEMAND IN MW-06D



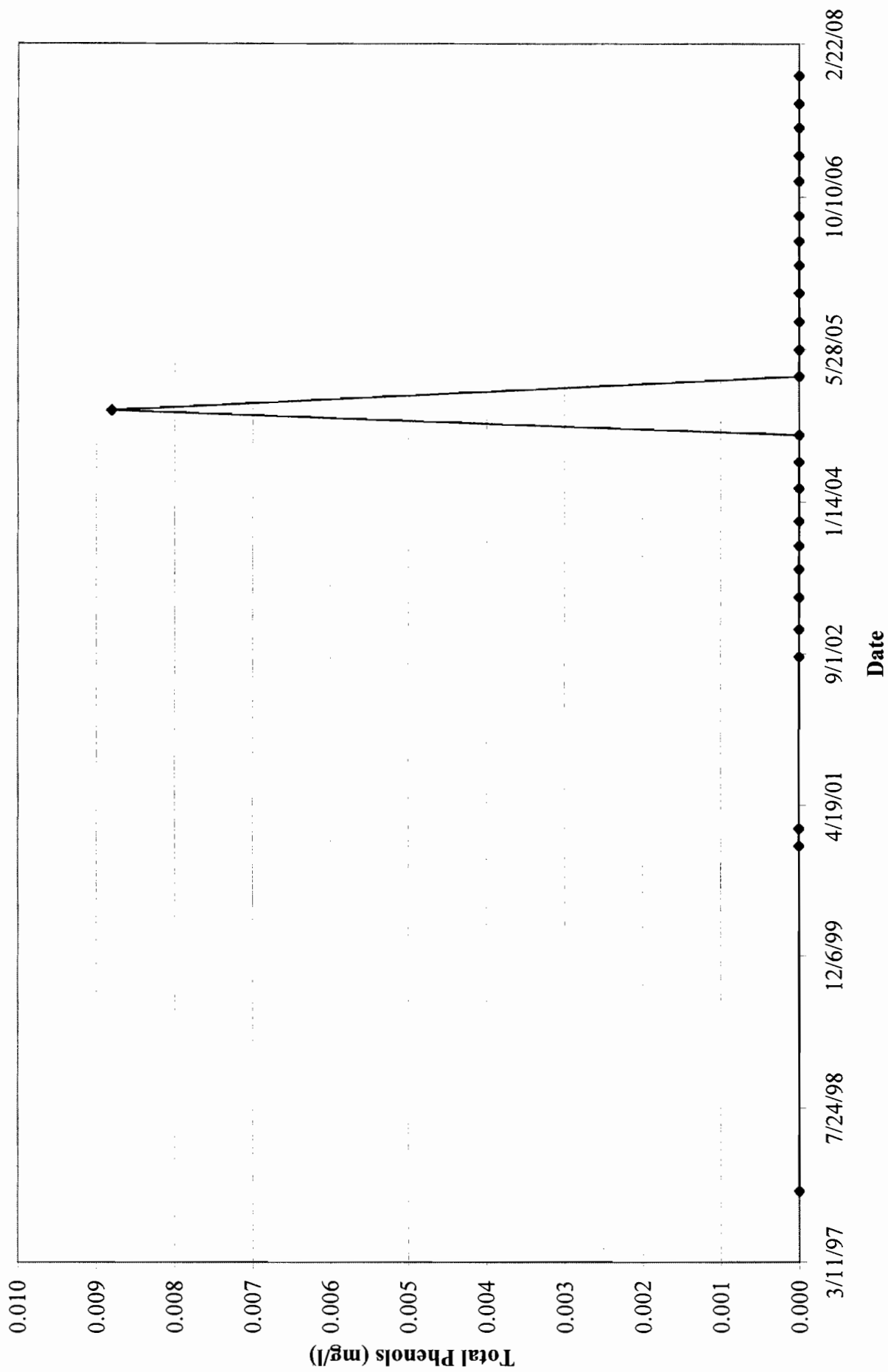
CHLORIDE IN MW-06D



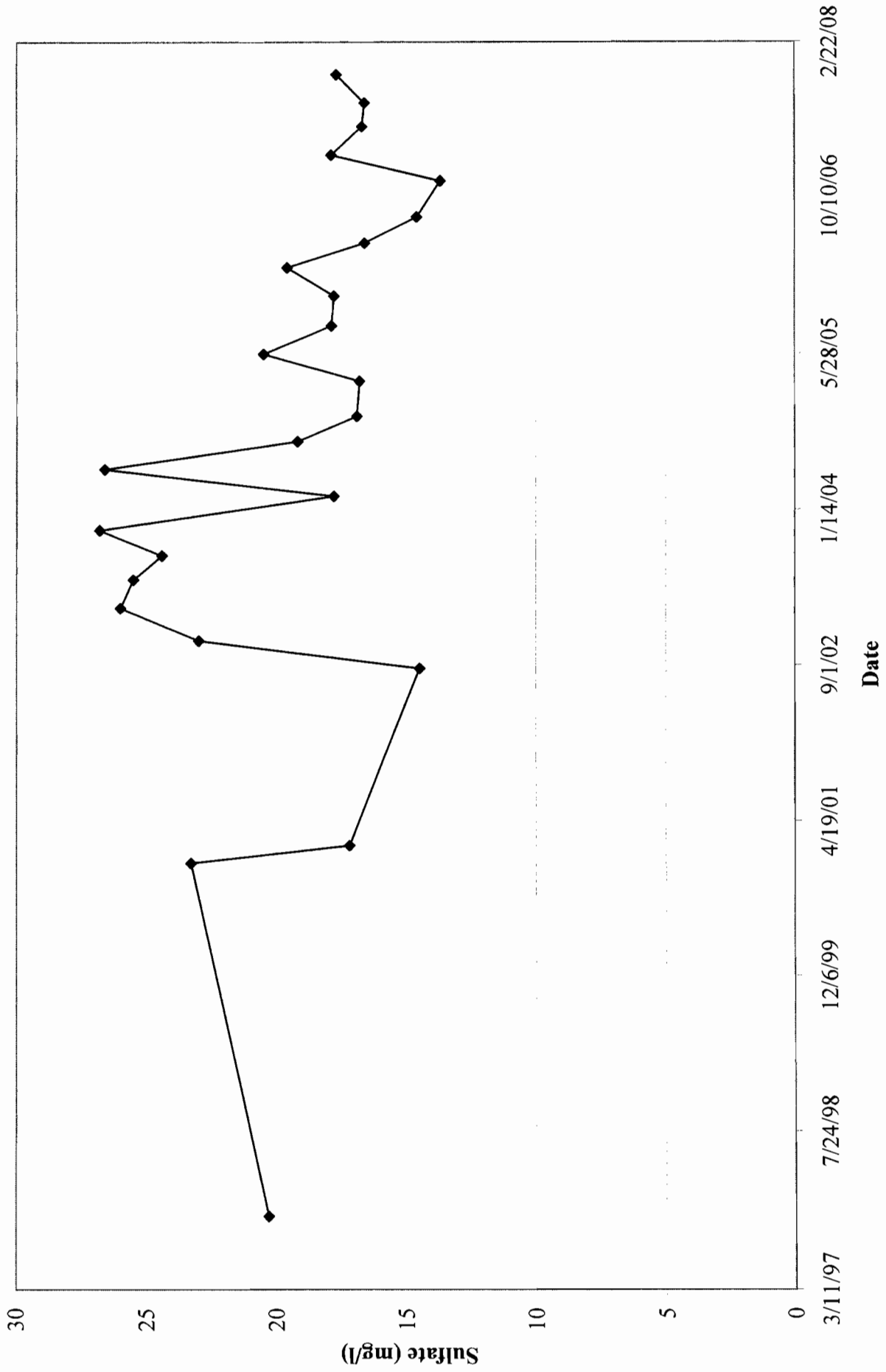
NITRATE IN MW-06D



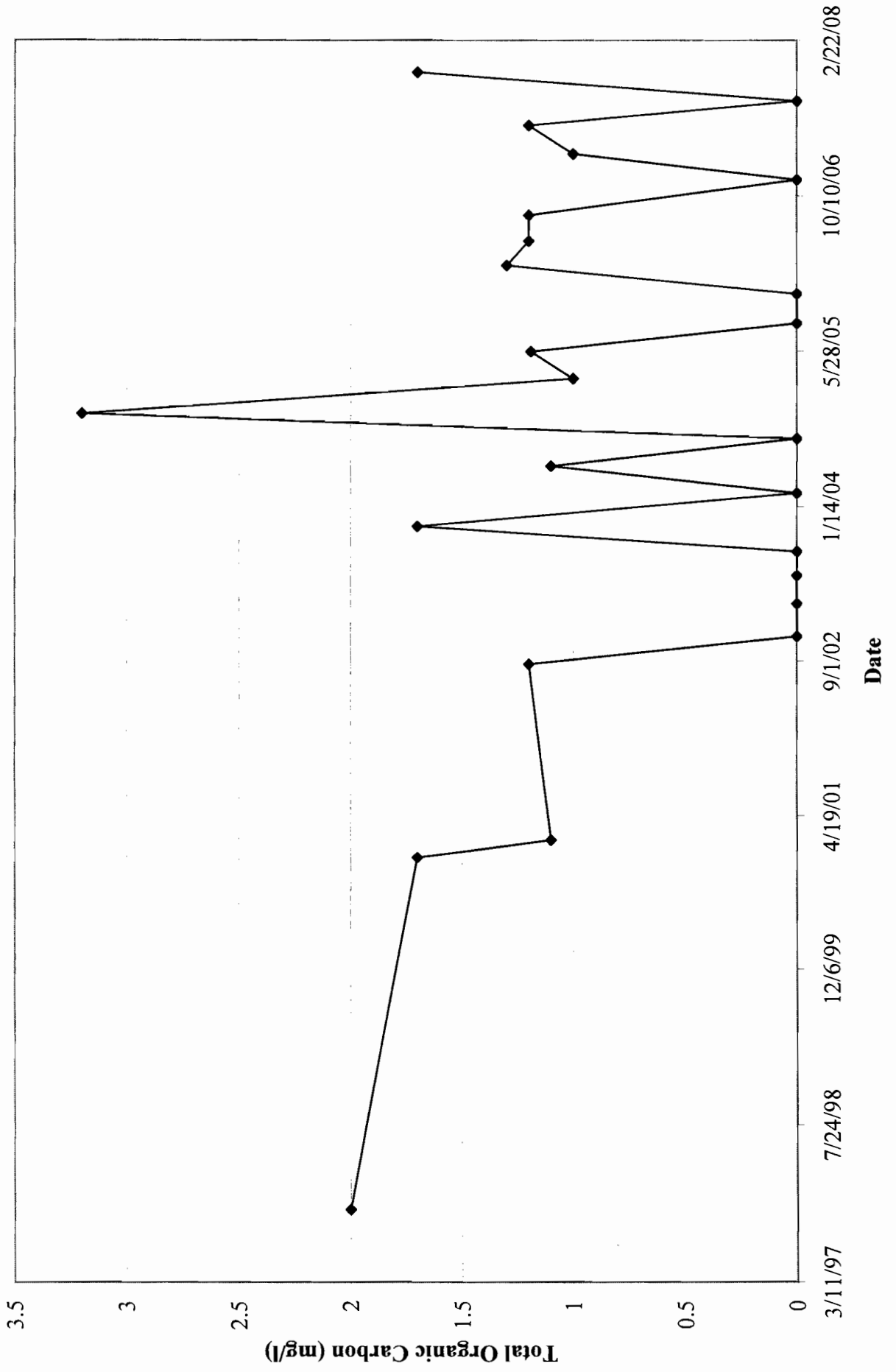
TOTAL PHENOLS IN MW-06D



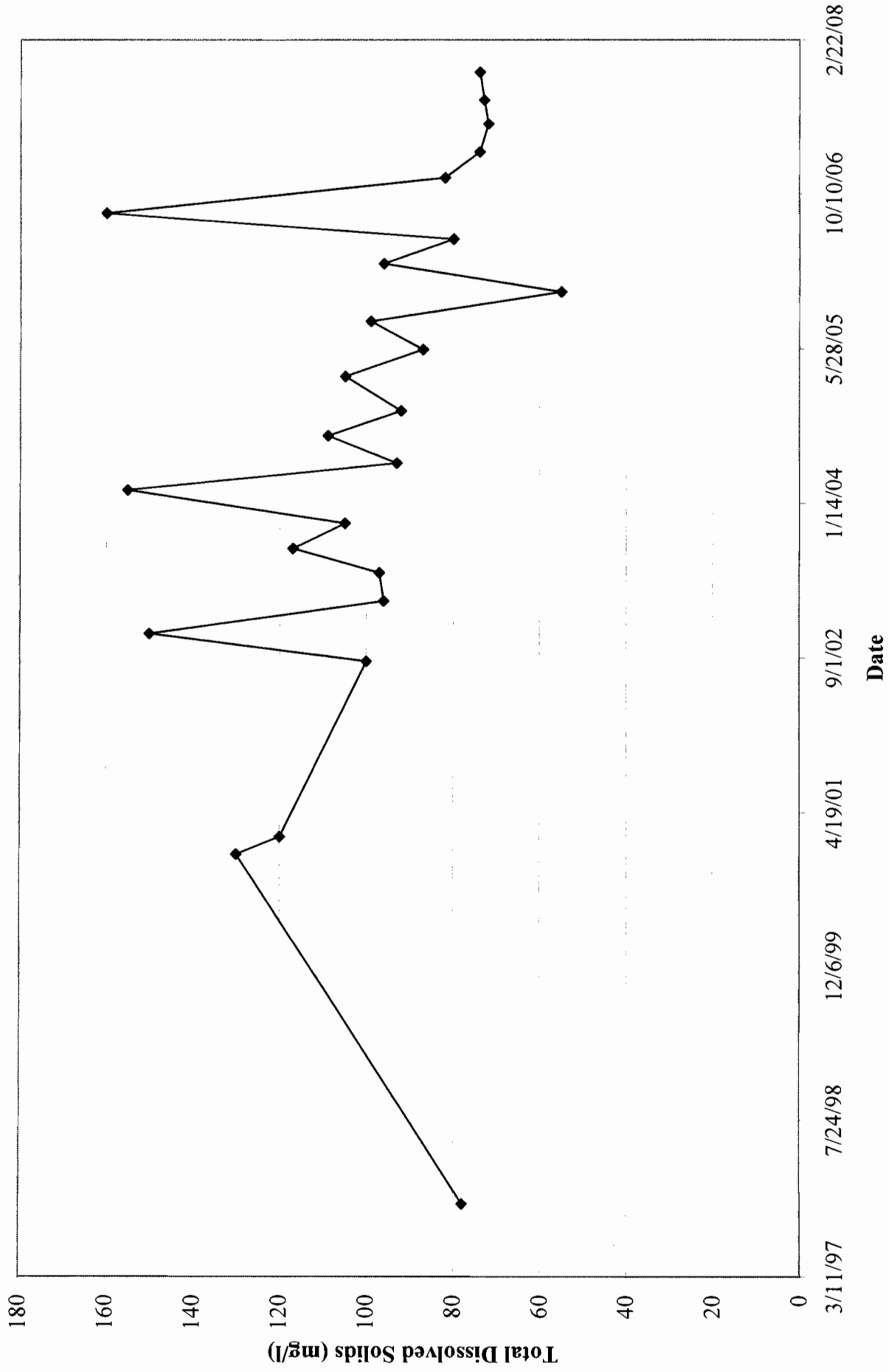
SULFATE IN MW-06D



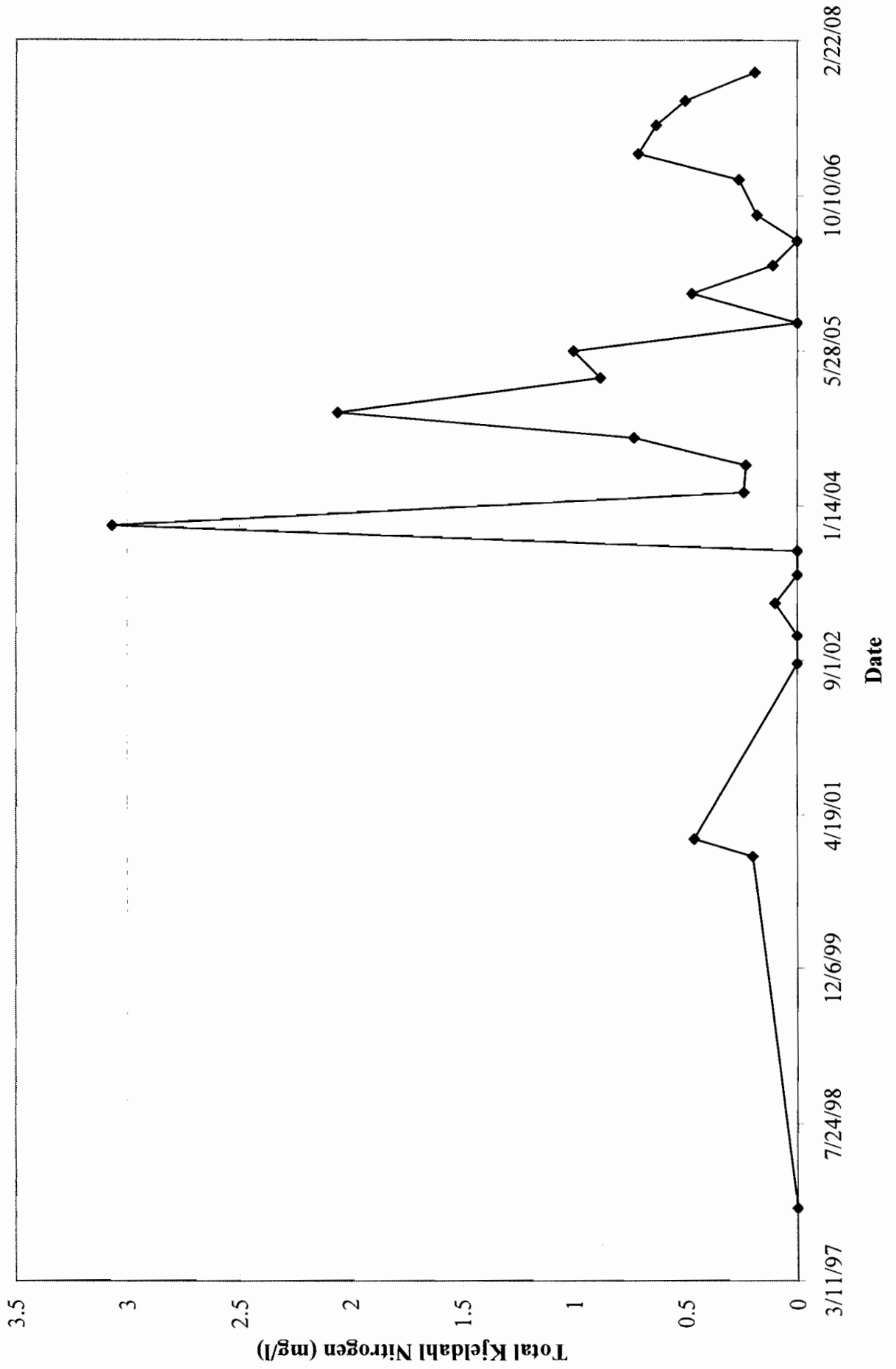
TOTAL ORGANIC CARBON IN MW-06D



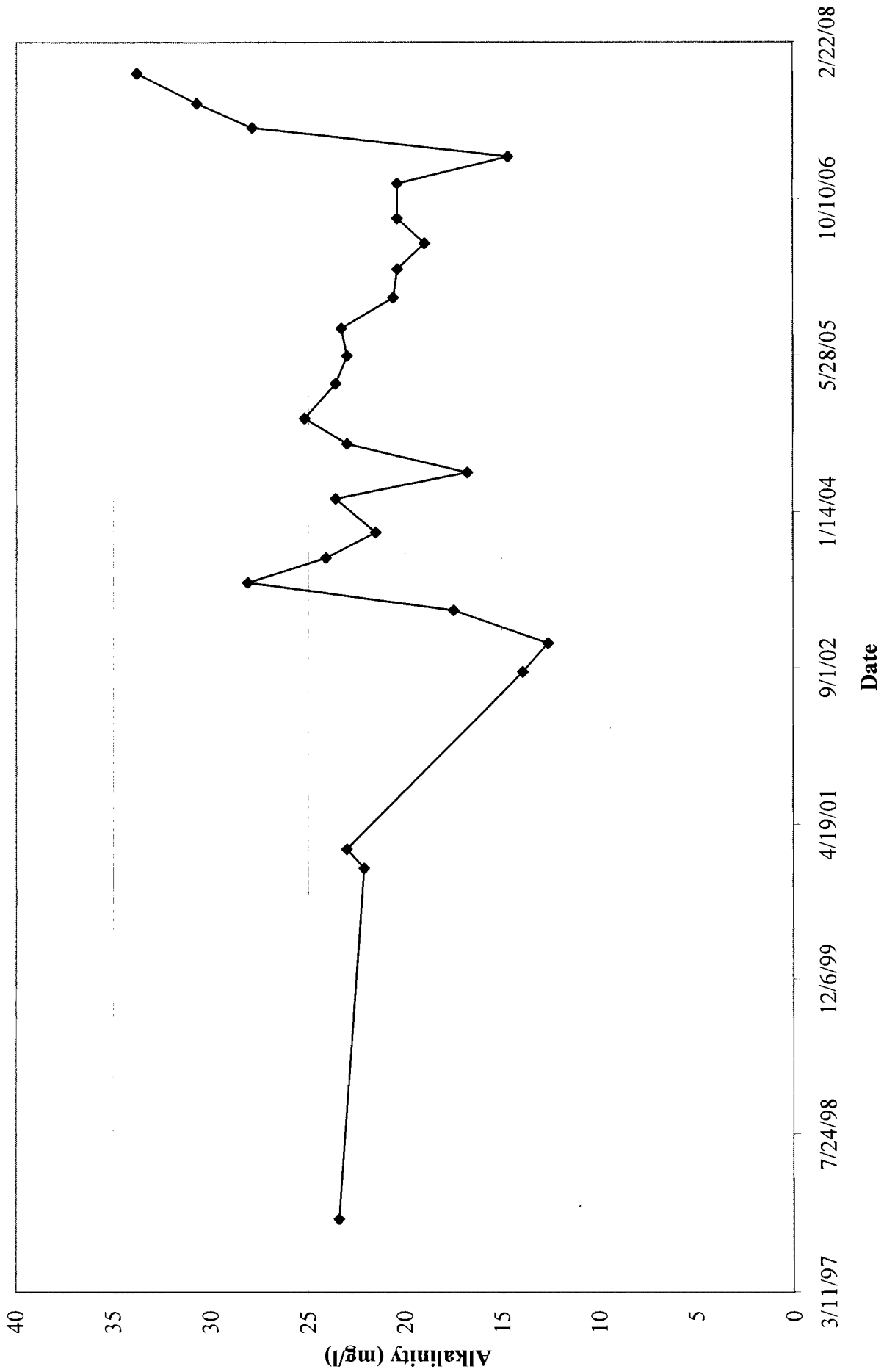
TOTAL DISSOLVED SOLIDS IN MW-06D



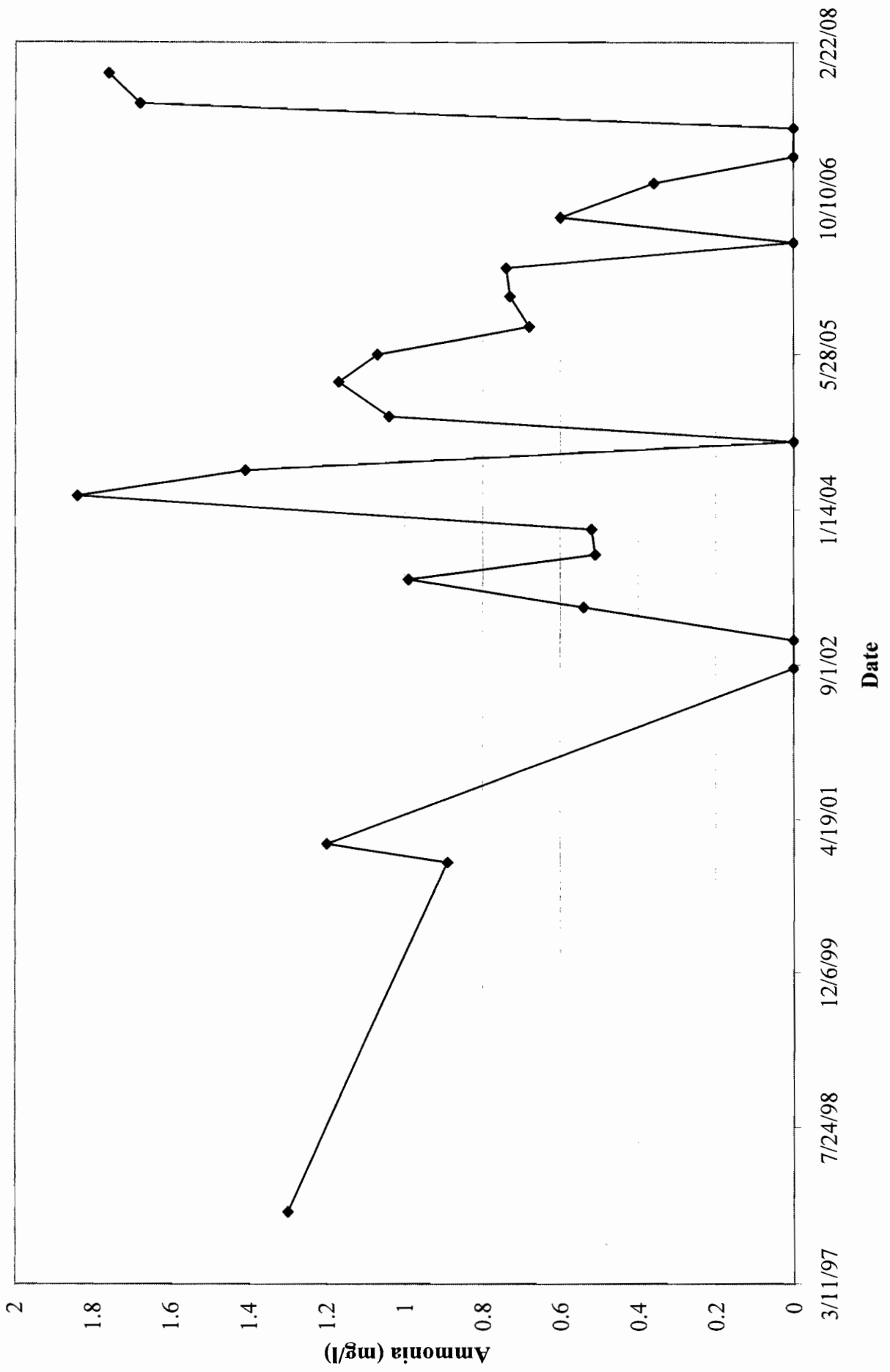
TOTAL KJELDAHL NITROGEN IN MW-06D



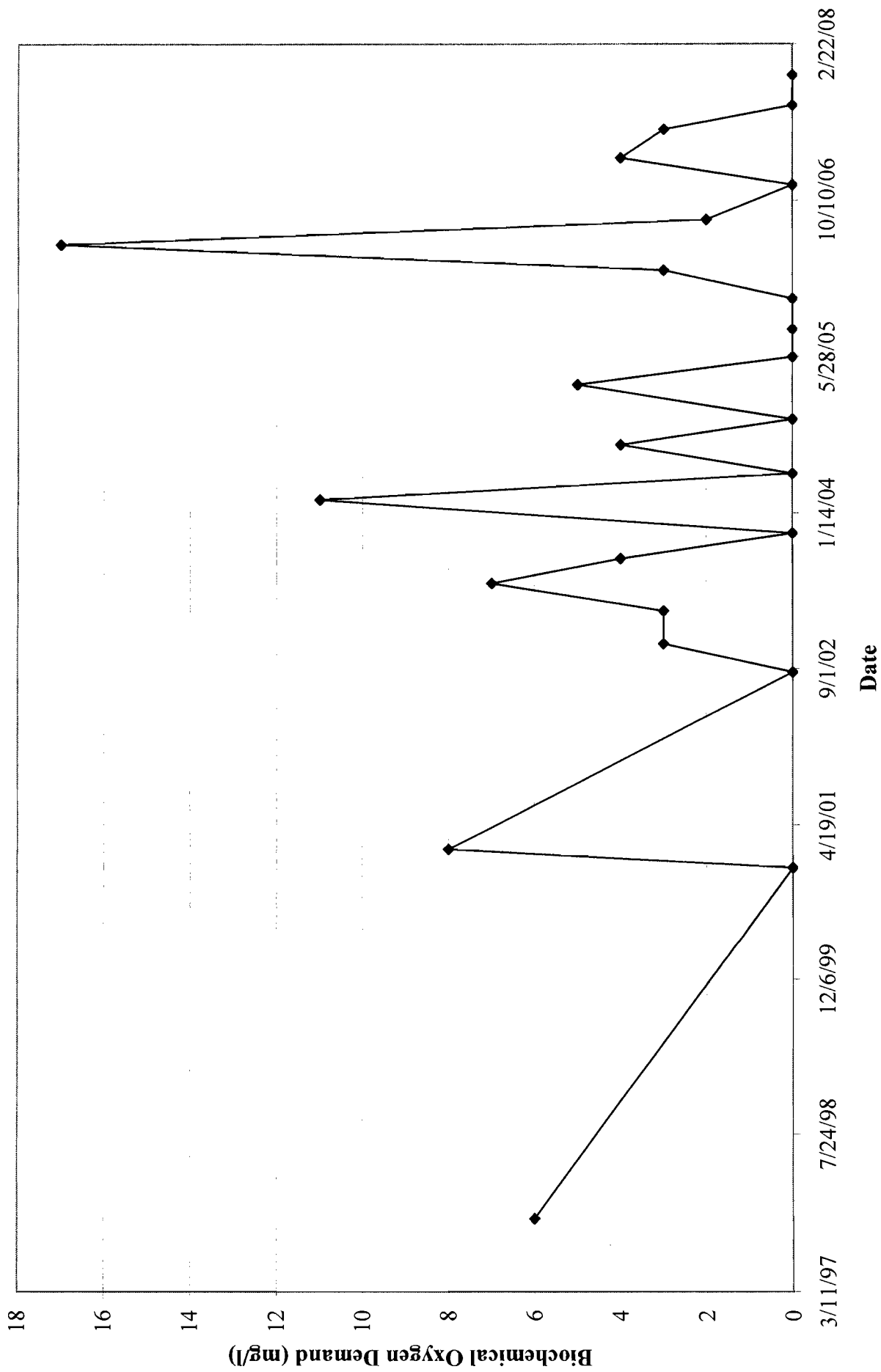
ALKALINITY IN MW-071



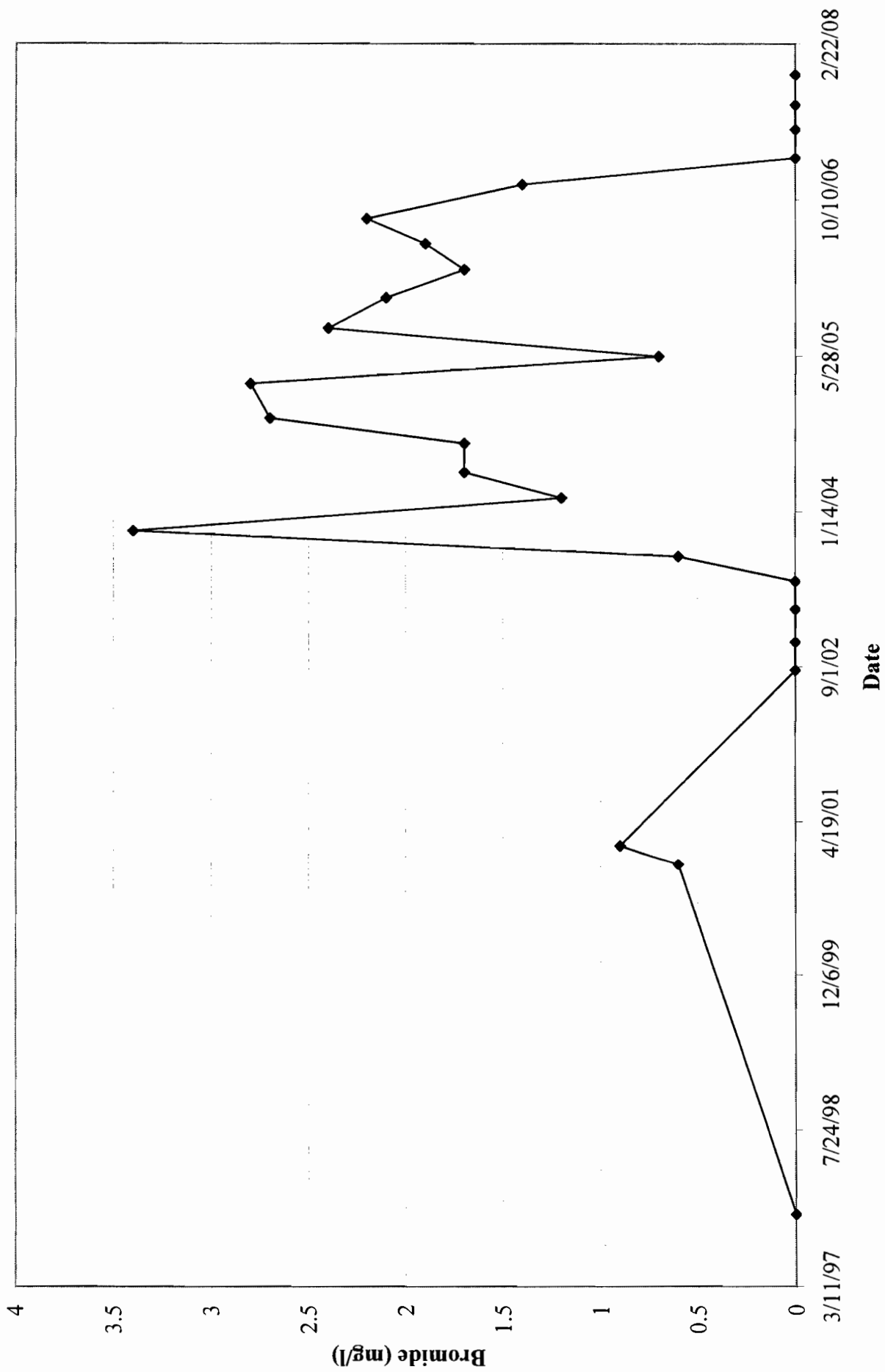
AMMONIA IN MW-071



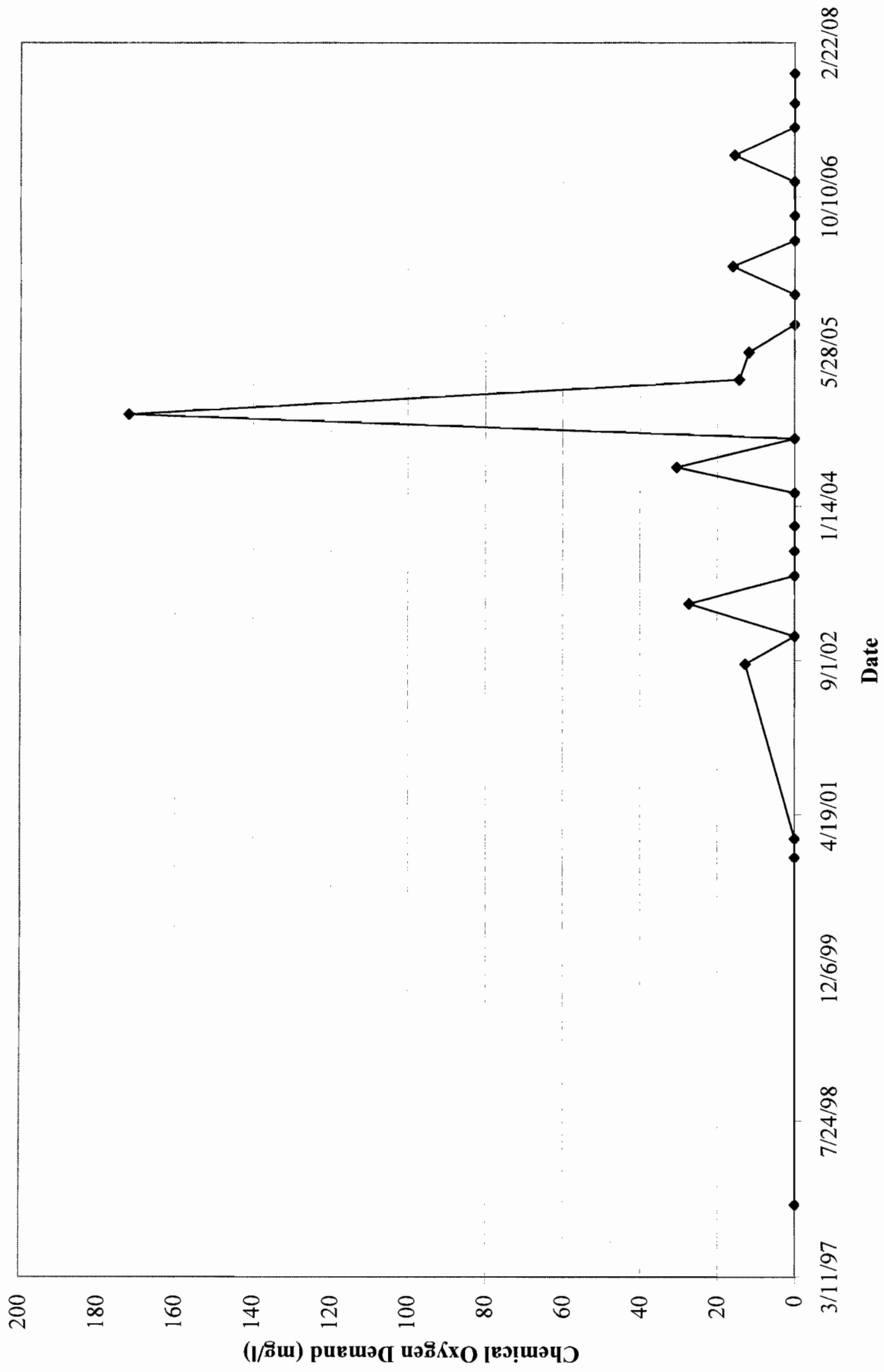
BIOCHEMICAL OXYGEN DEMAND IN MW-07I



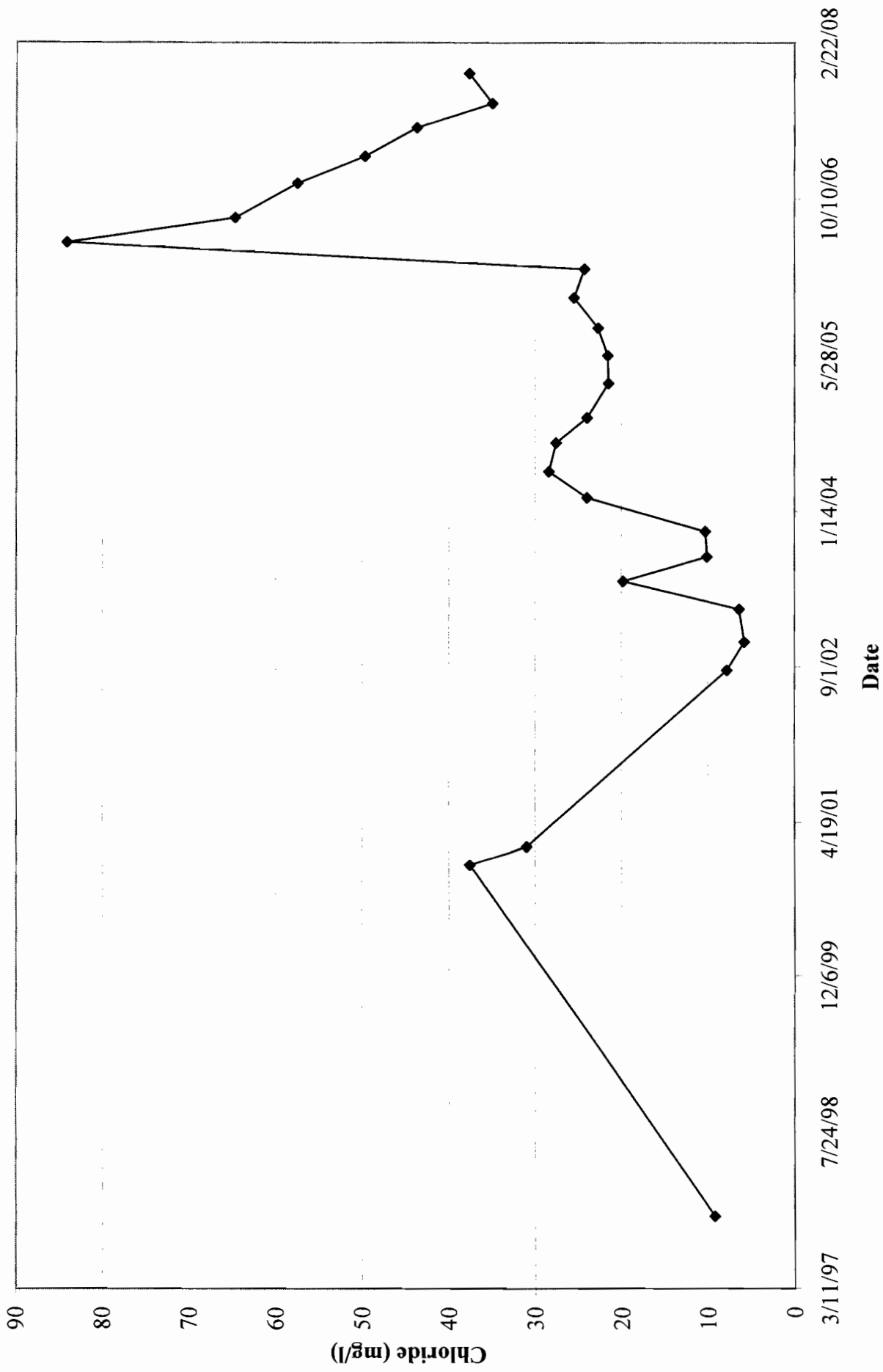
BROMIDE IN MW-071



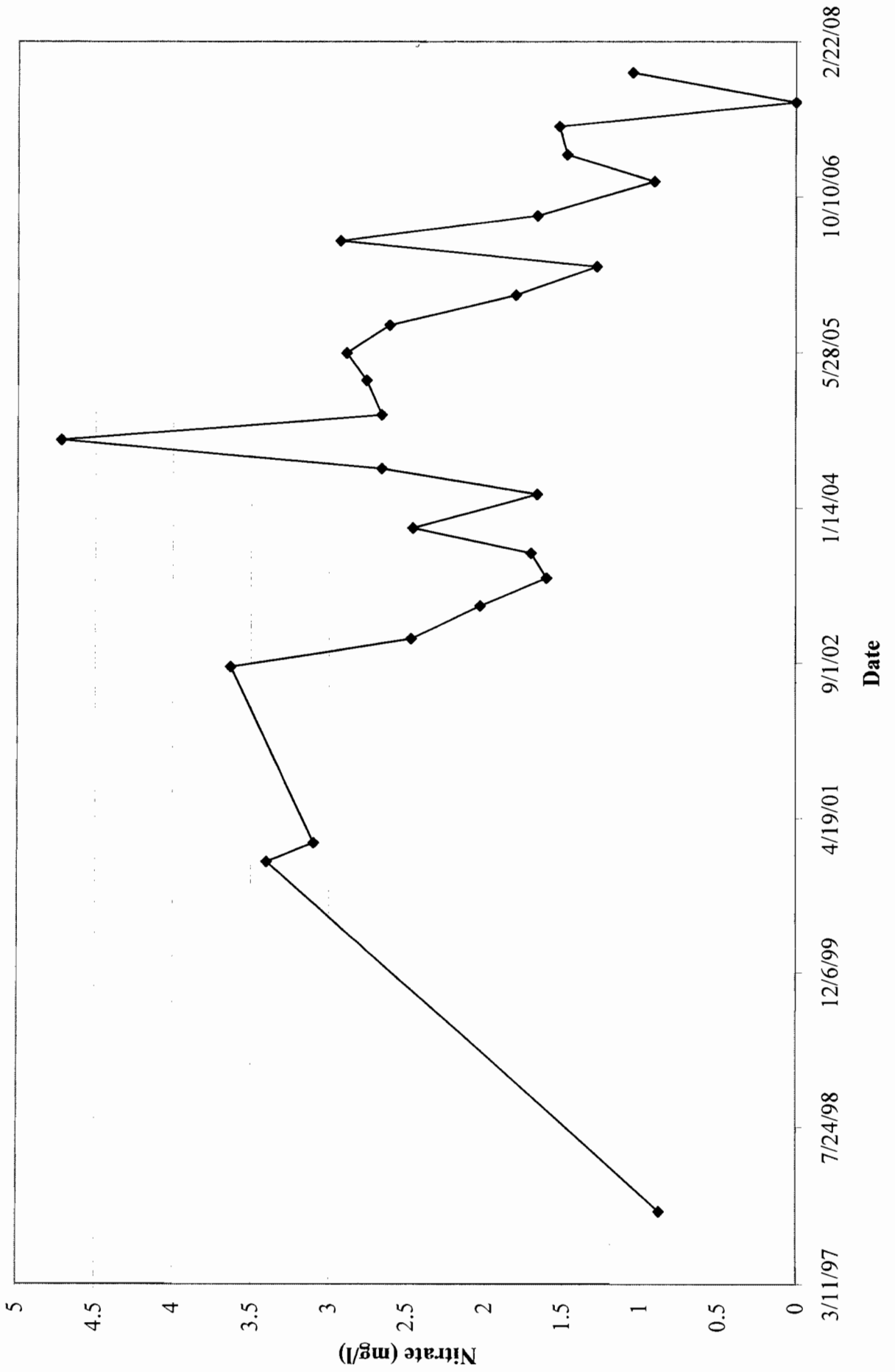
CHEMICAL OXYGEN DEMAND IN MW-07I



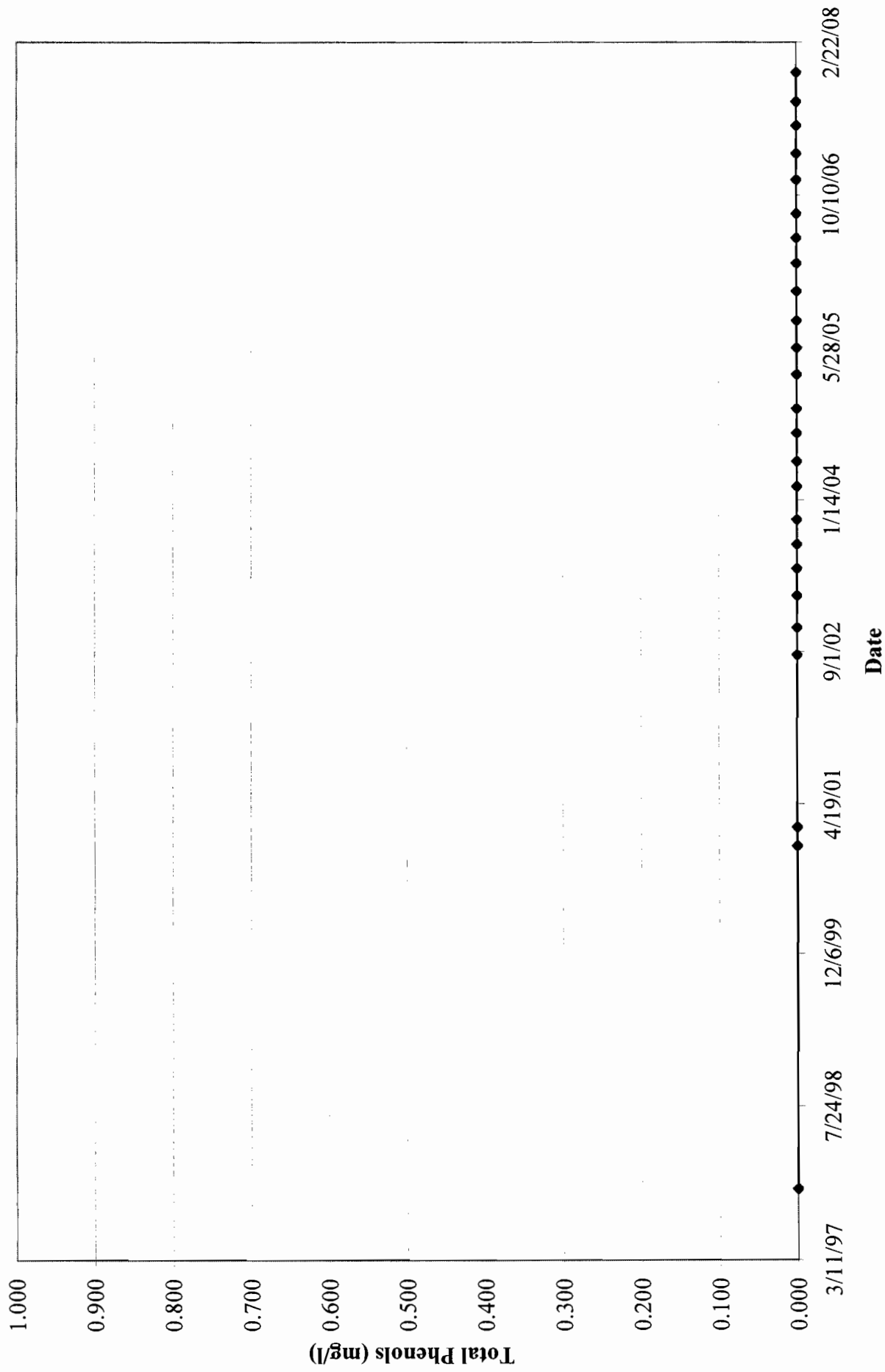
CHLORIDE IN MW-071



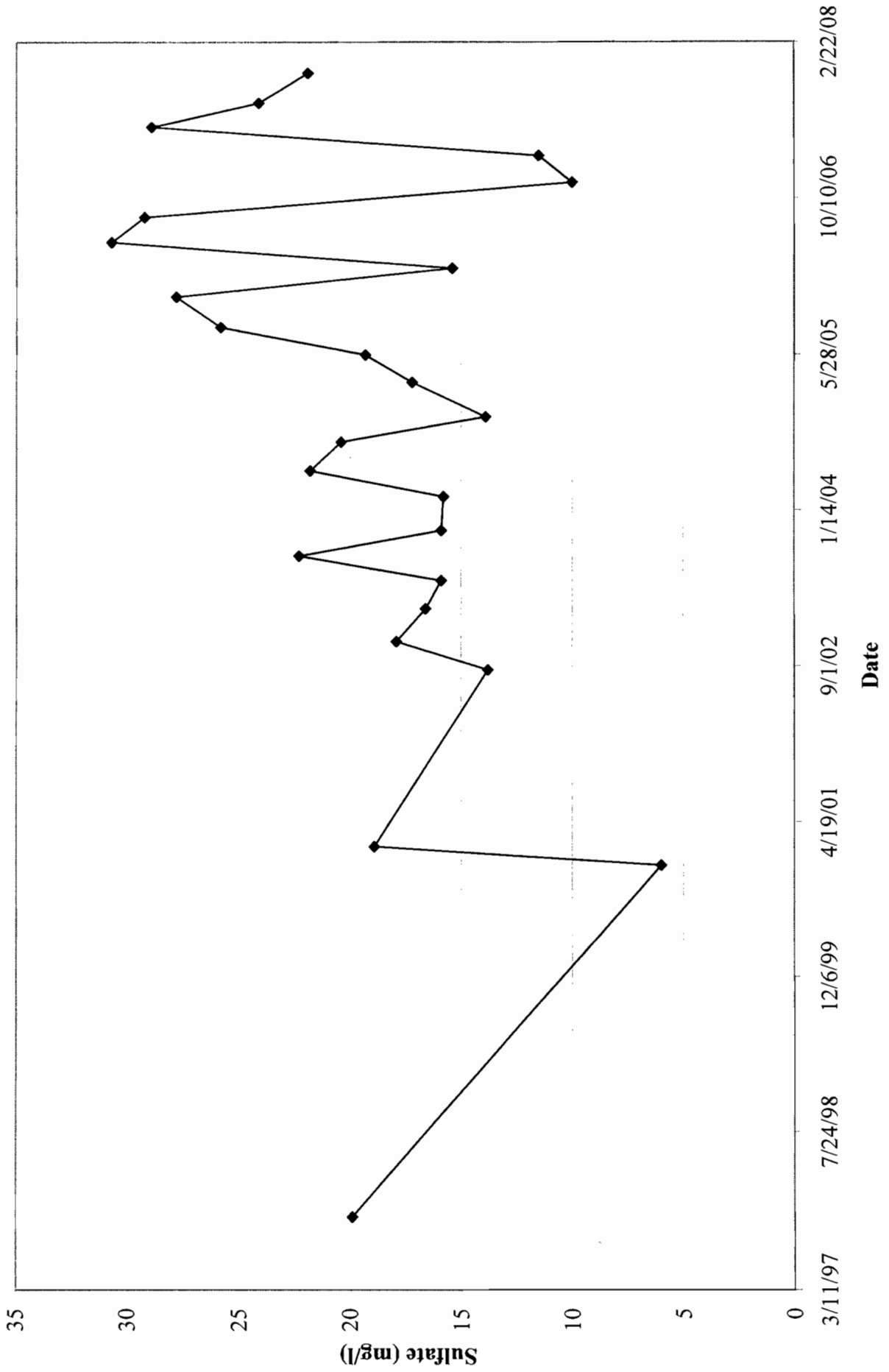
NITRATE IN MW-071



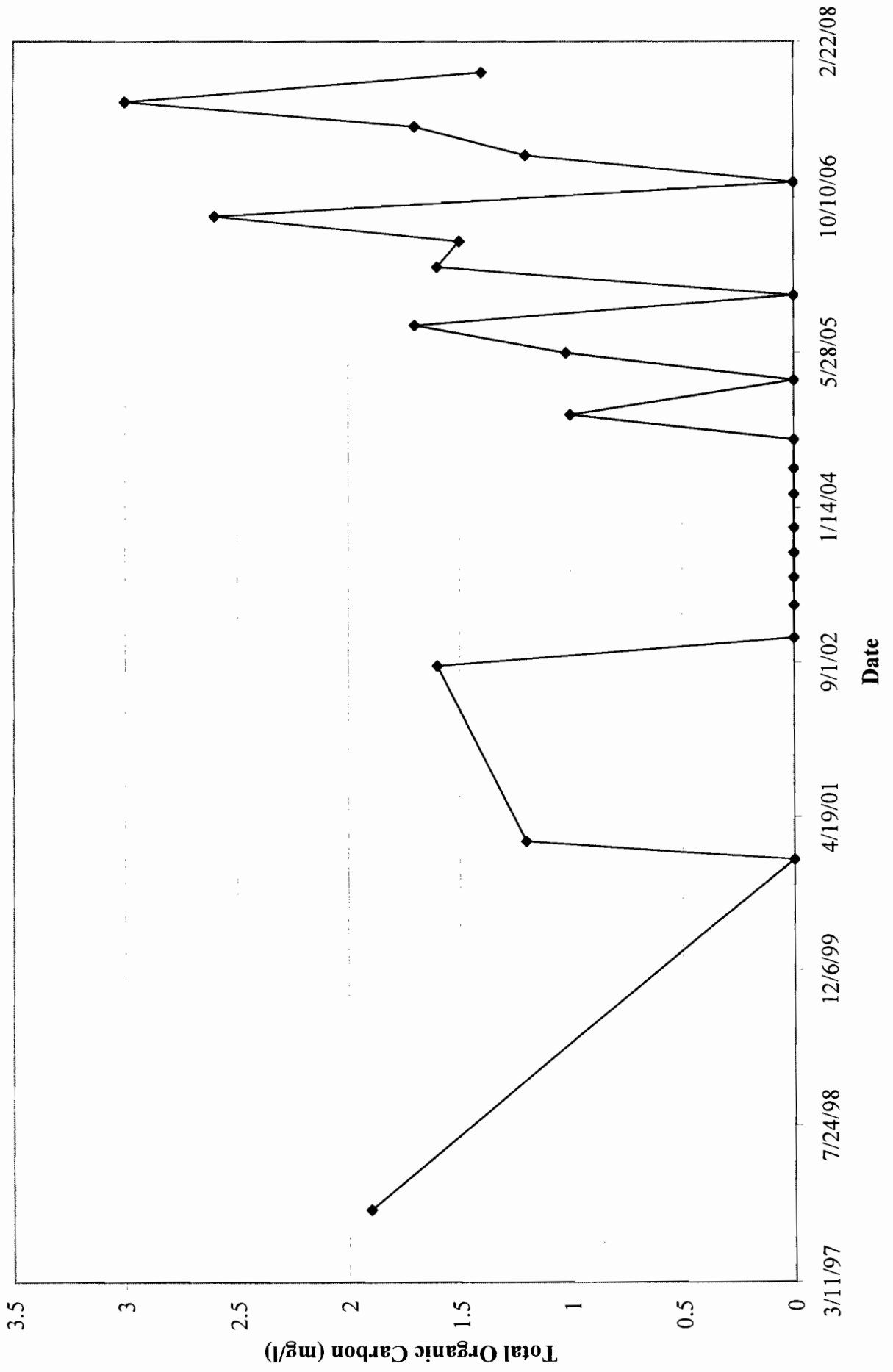
TOTAL PHENOLS IN MW-07I



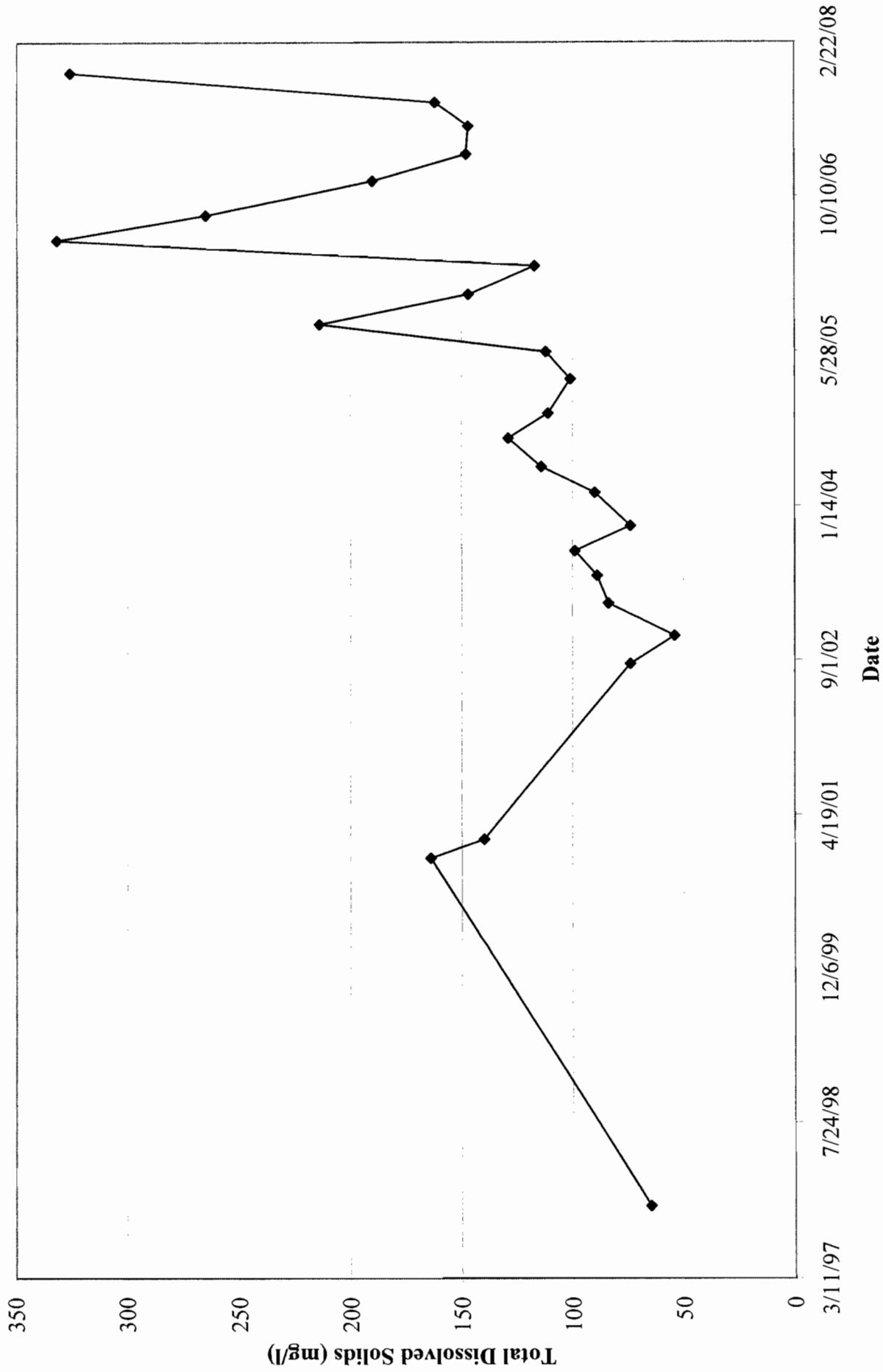
SULFATE IN MW-07I



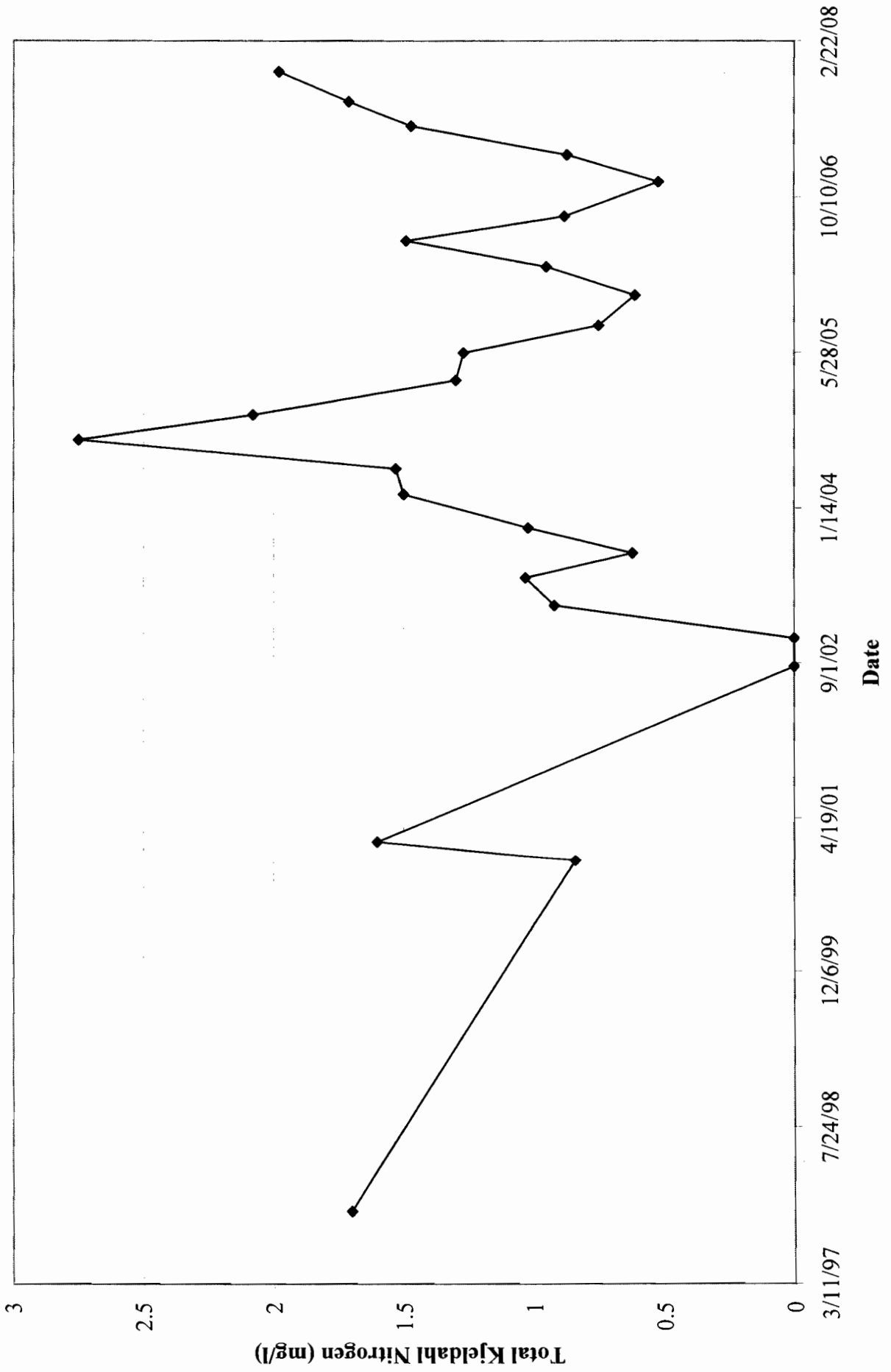
TOTAL ORGANIC CARBON IN MW-071



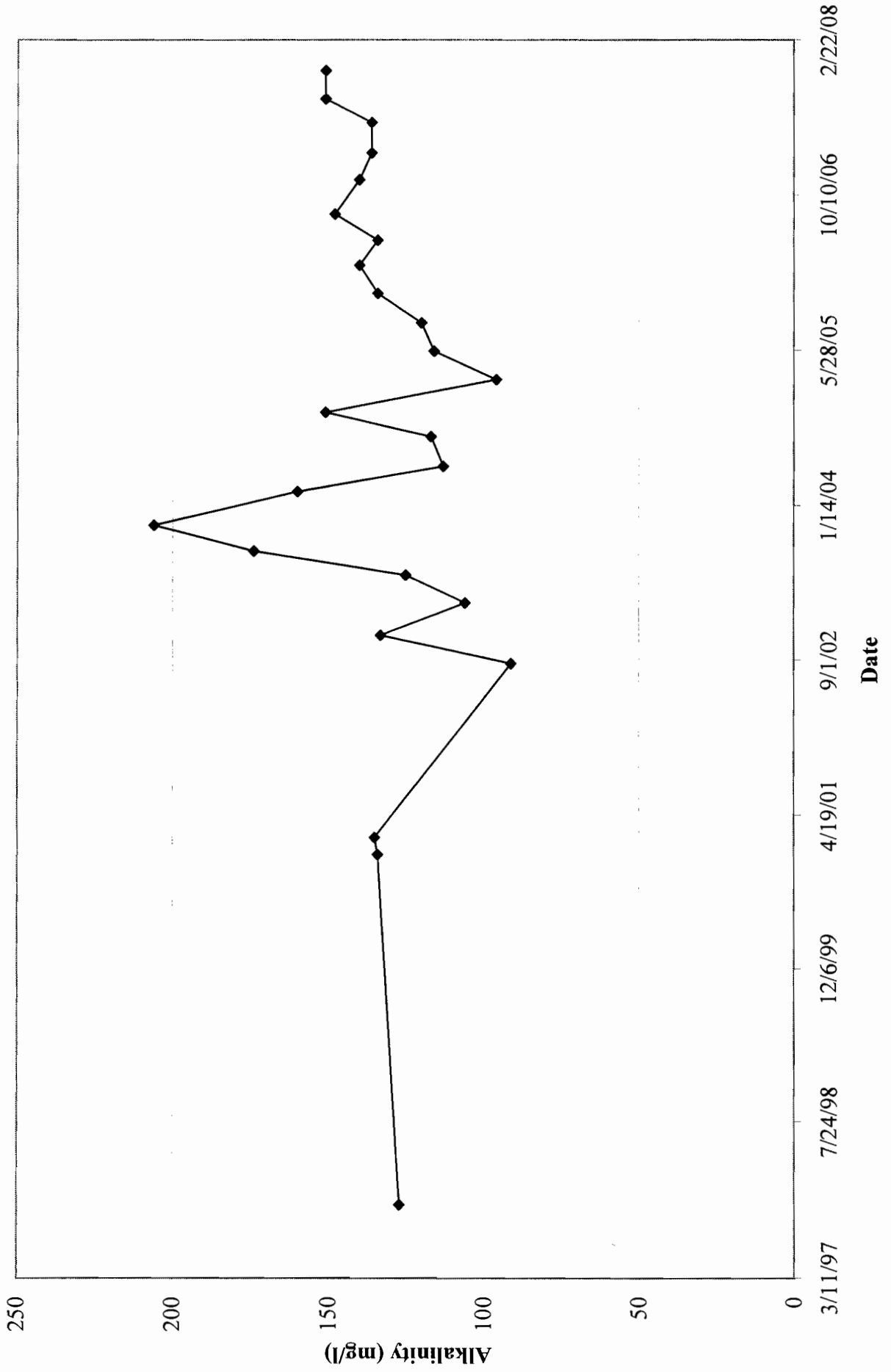
TOTAL DISSOLVED SOLIDS IN MW-071



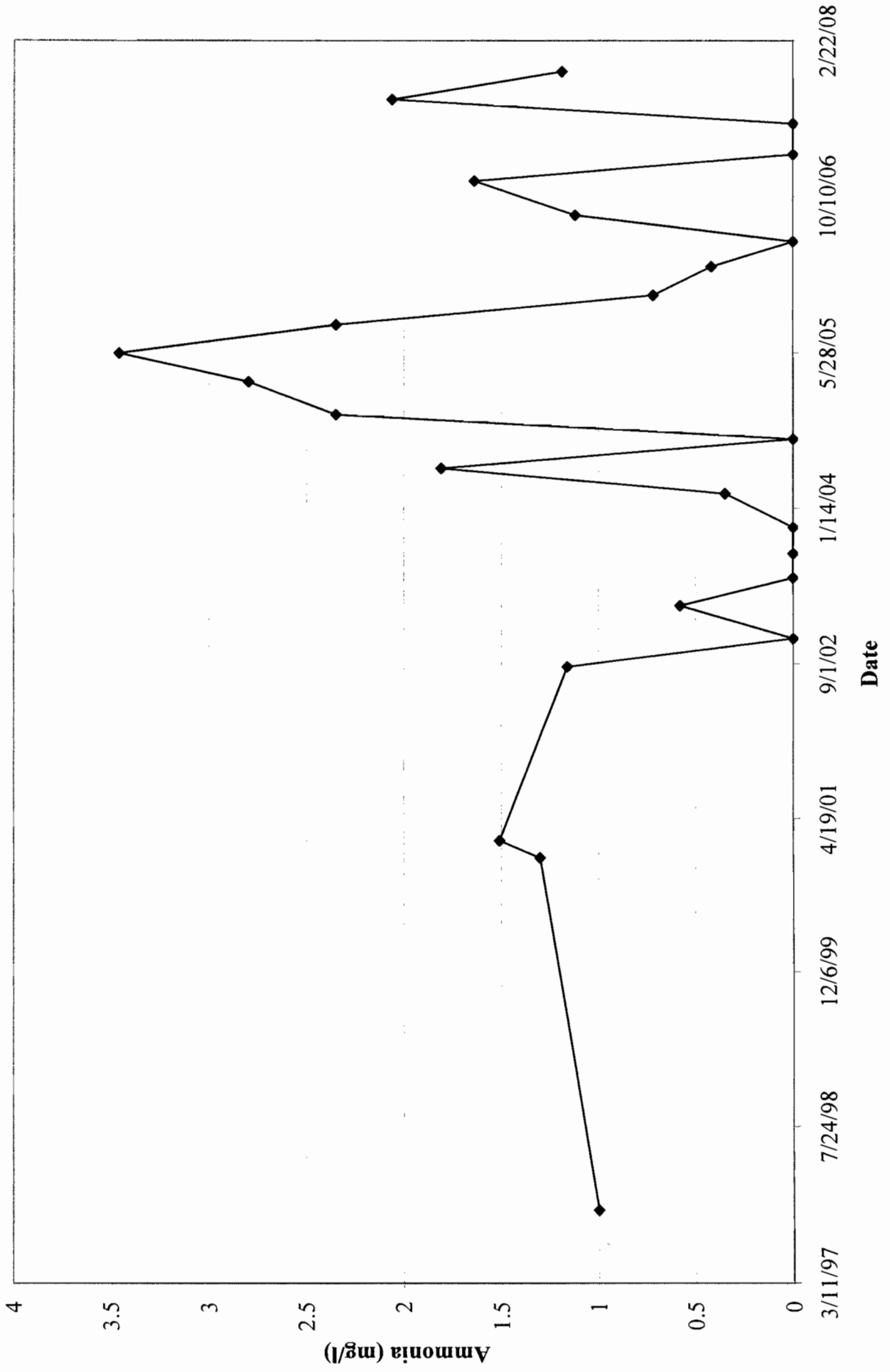
TOTAL KJELDAHL NITROGEN IN MW-07I



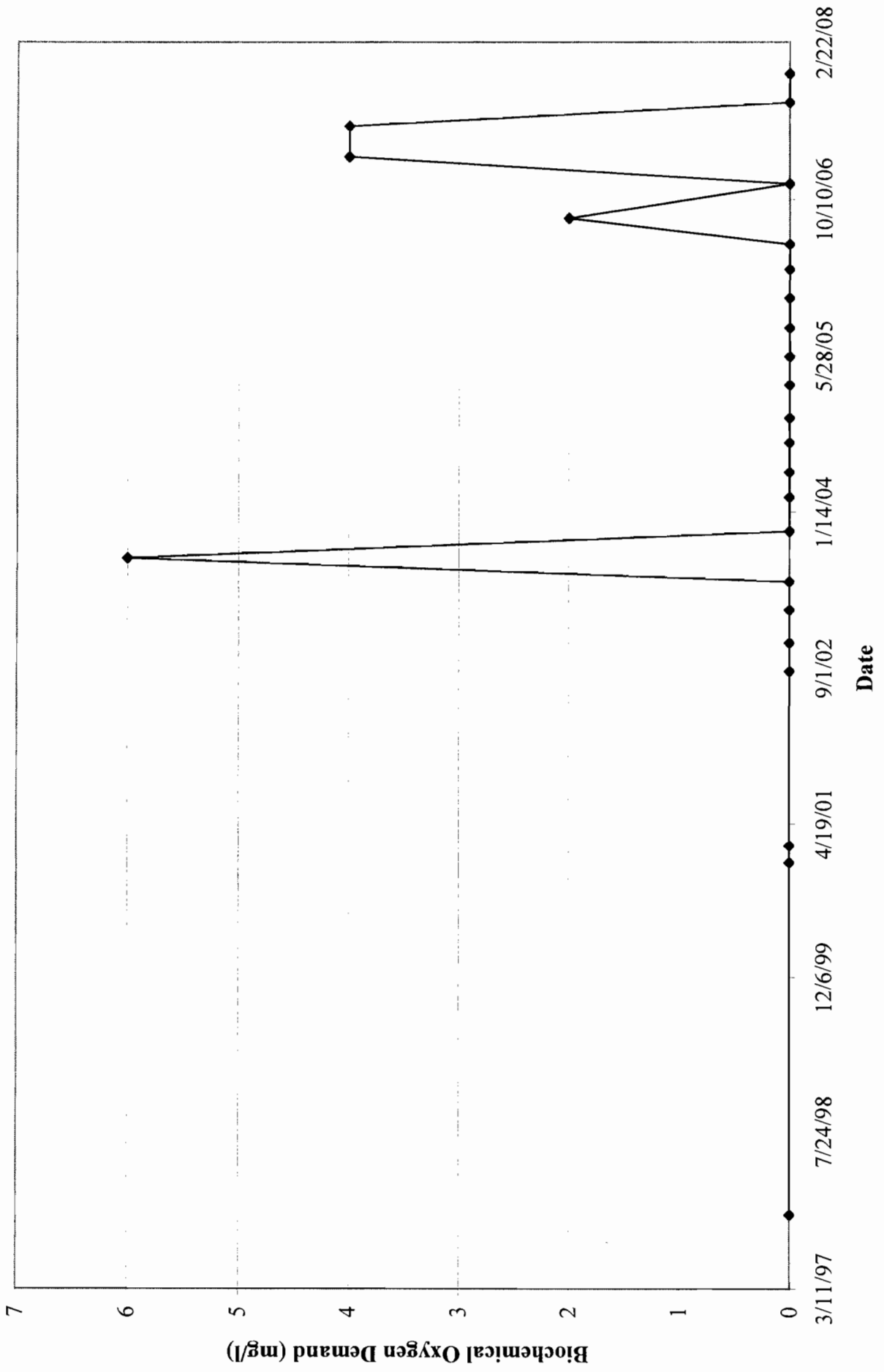
ALKALINITY IN MW-11S



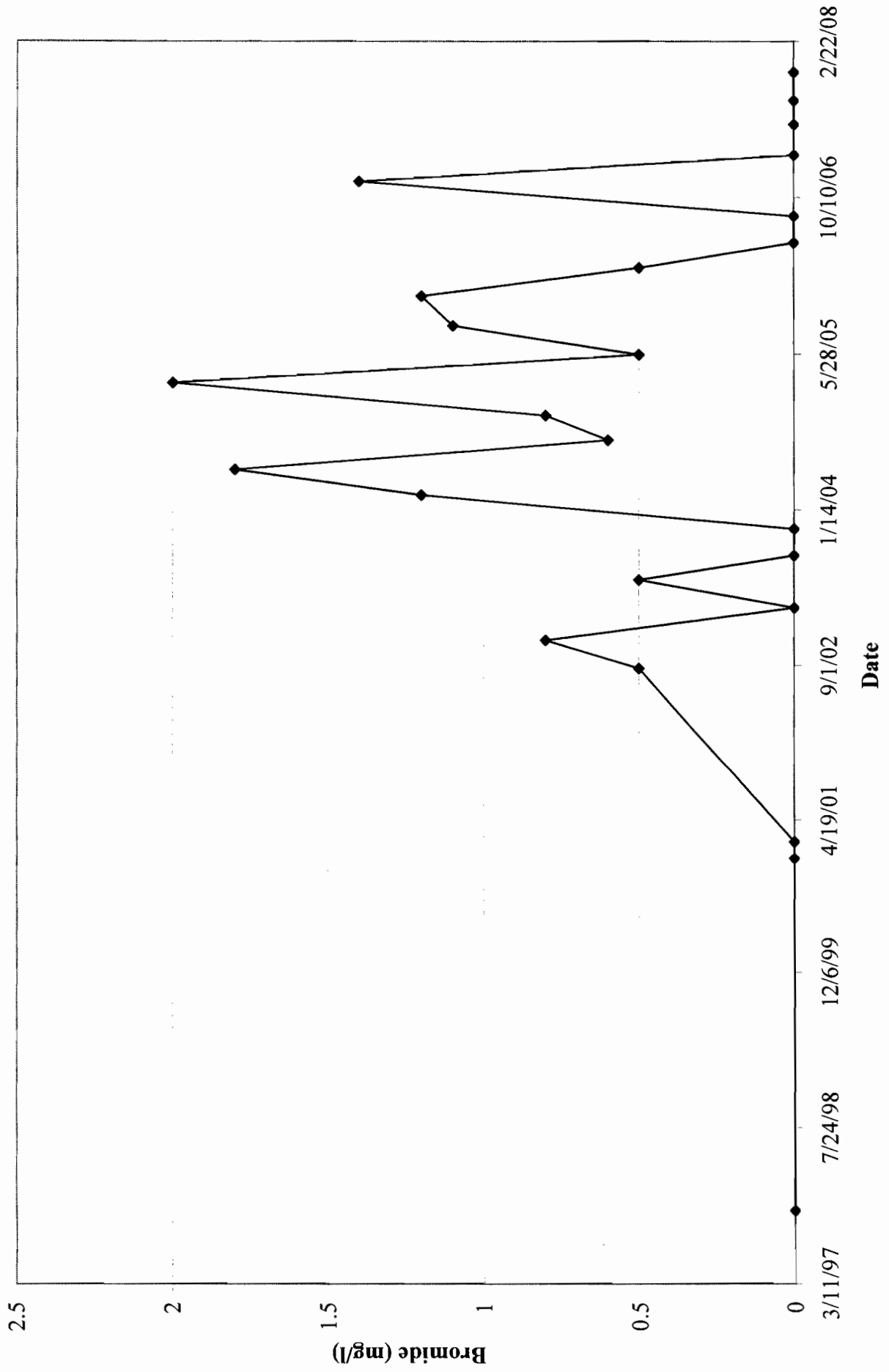
AMMONIA IN MW-11S



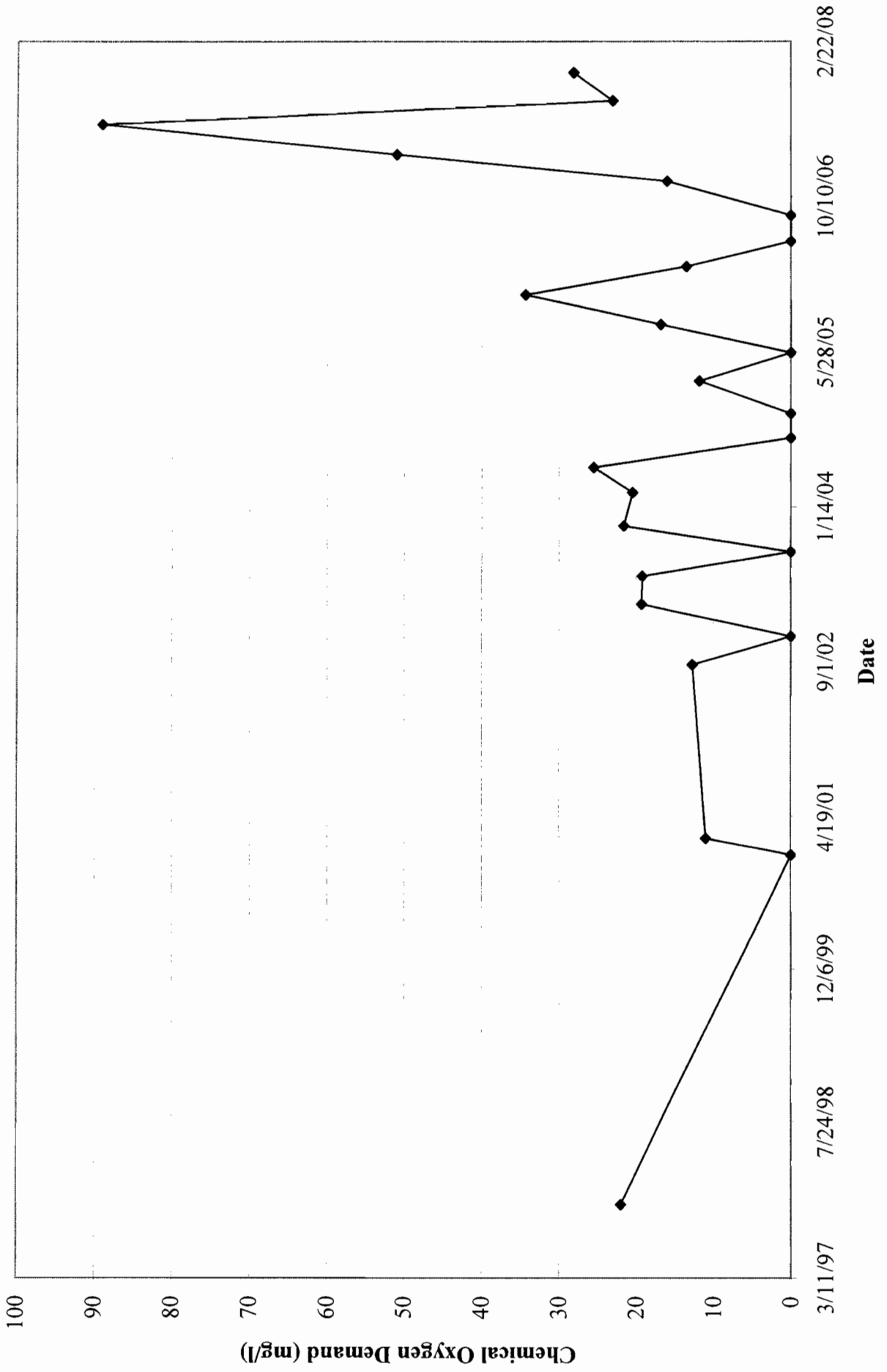
BIOCHEMICAL OXYGEN DEMAND IN MW-11S



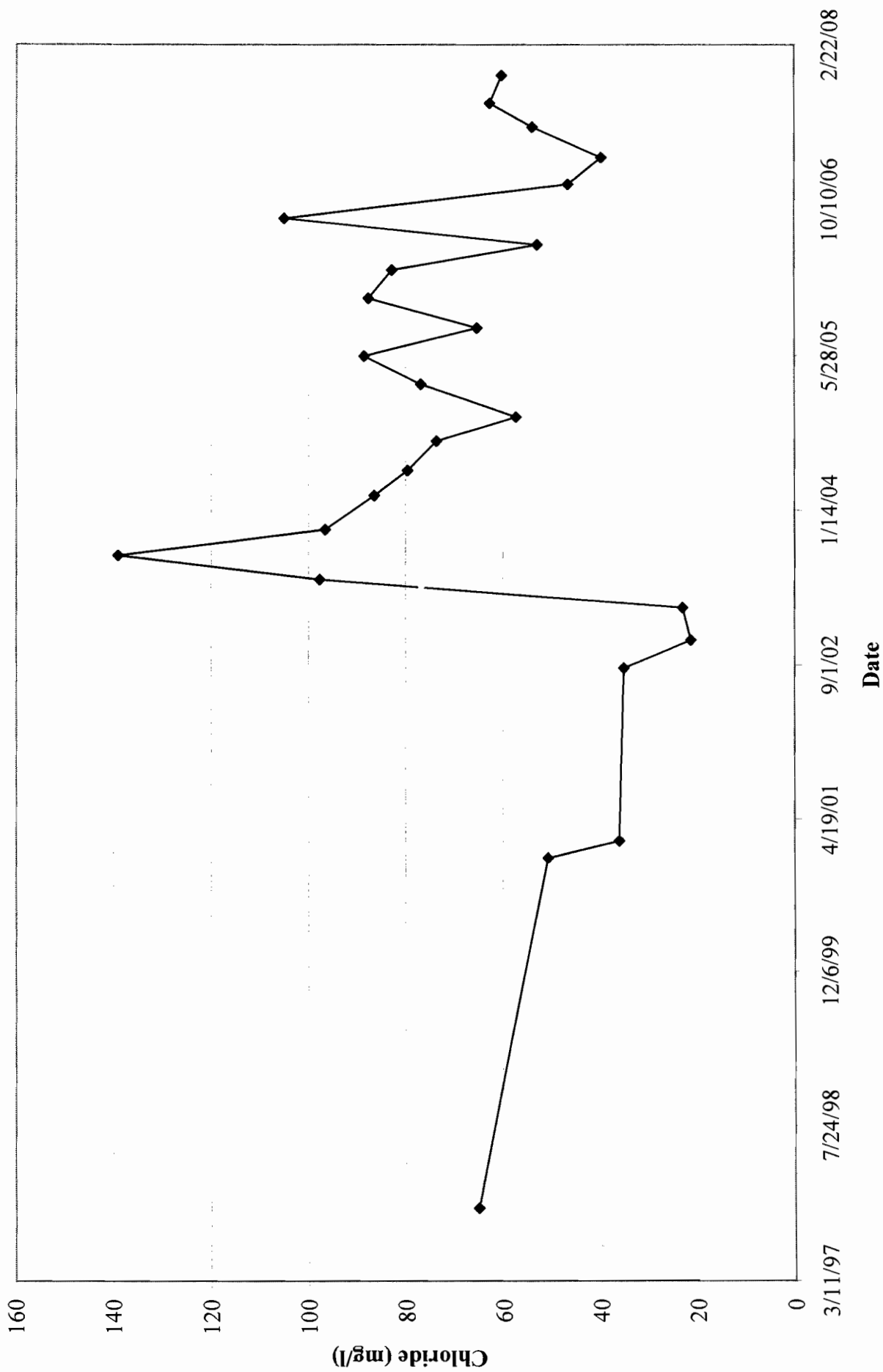
BROMIDE IN MW-11S



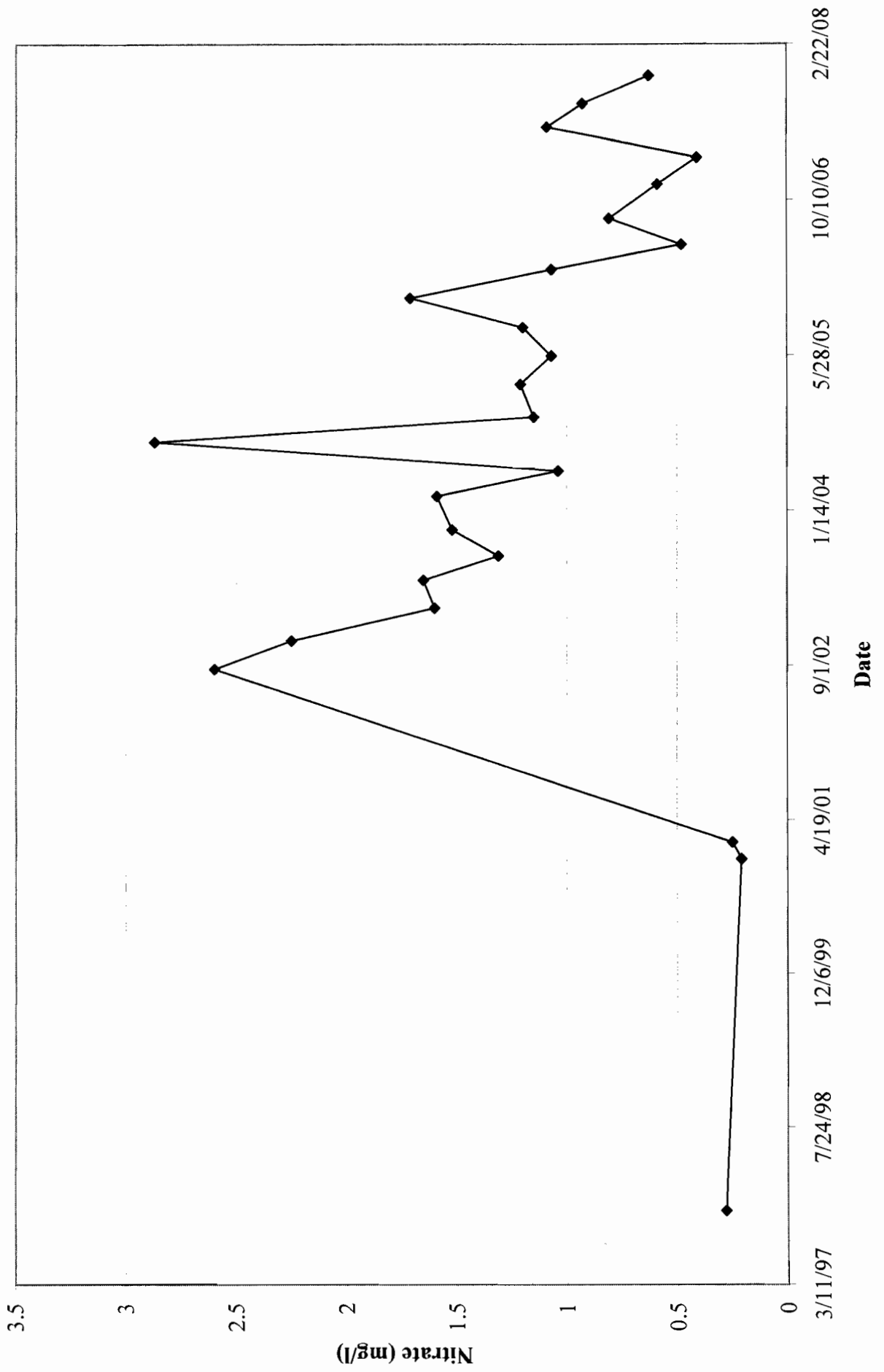
CHEMICAL OXYGEN DEMAND IN MW-11S



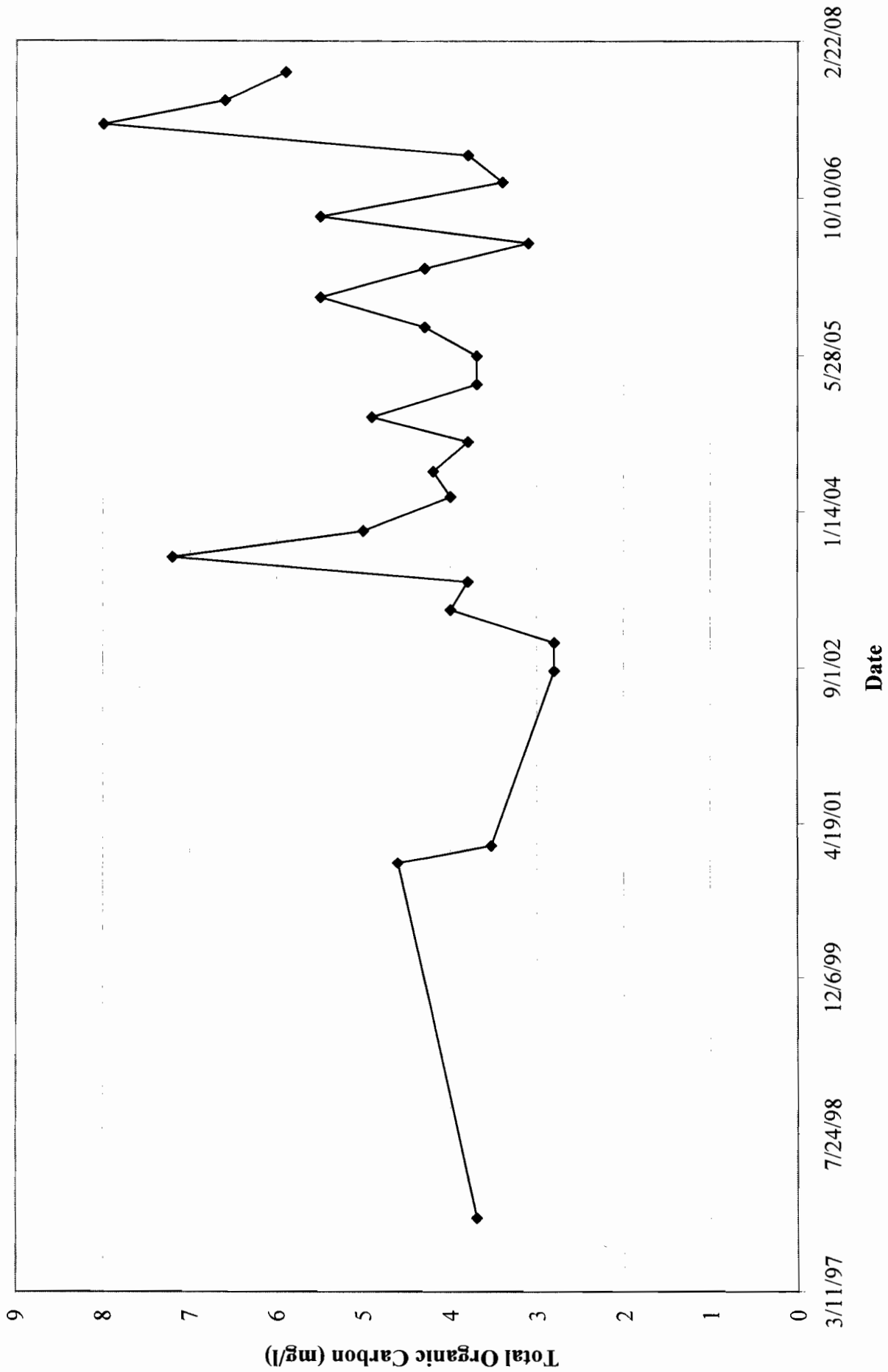
CHLORIDE IN MW-11S



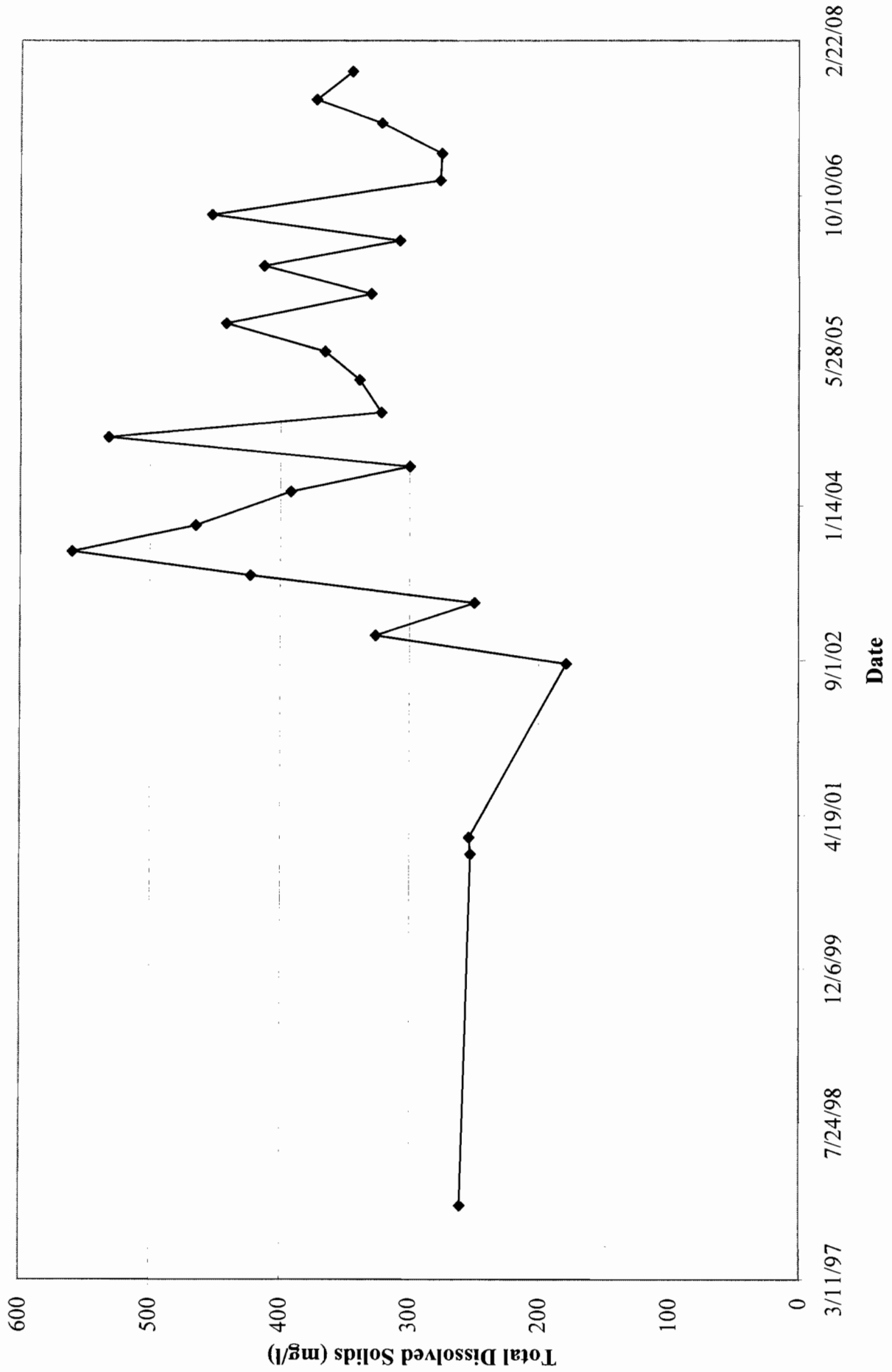
NITRATE IN MW-11S



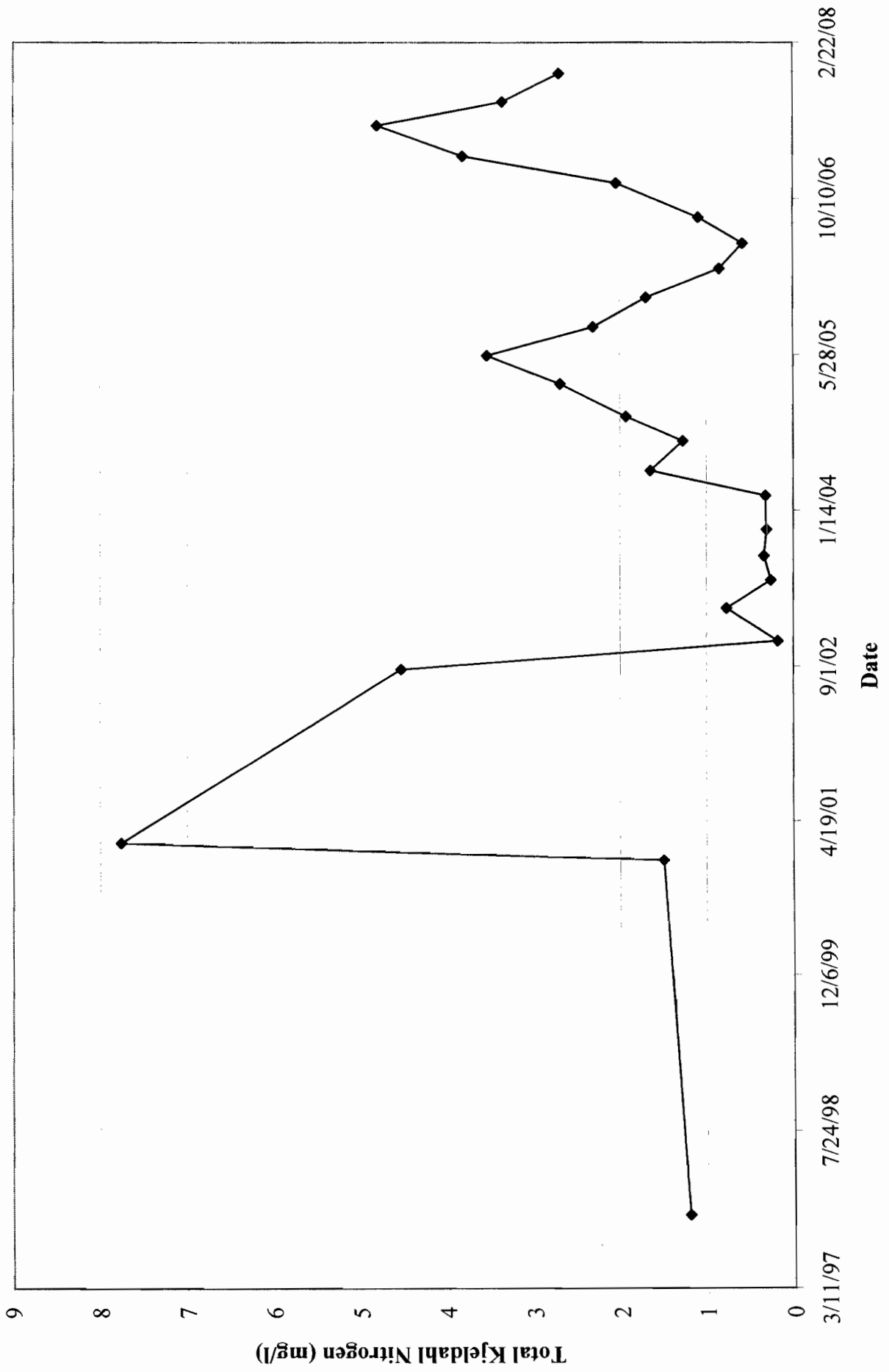
TOTAL ORGANIC CARBON IN MW-11S



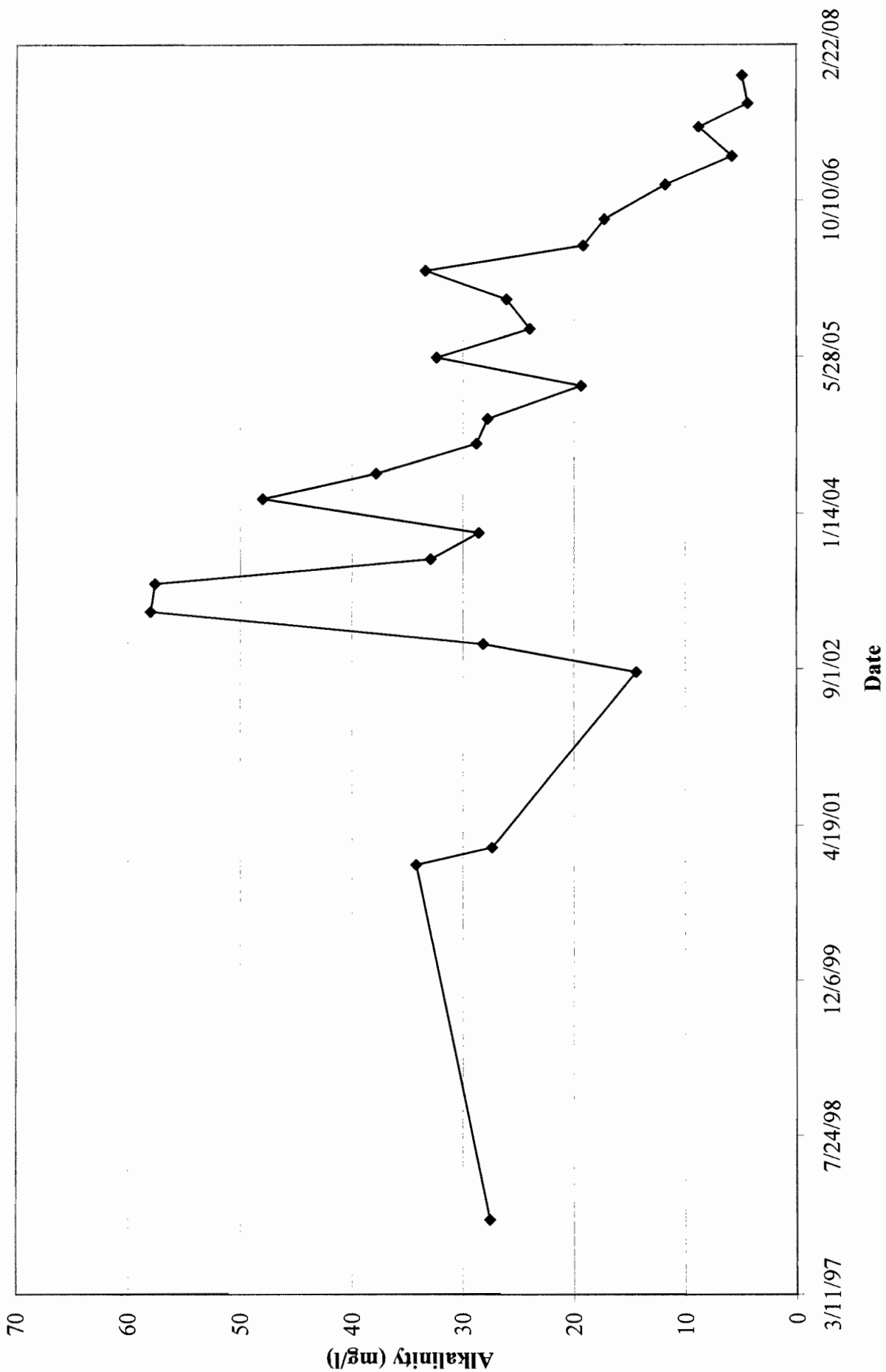
TOTAL DISSOLVED SOLIDS IN MW-11S



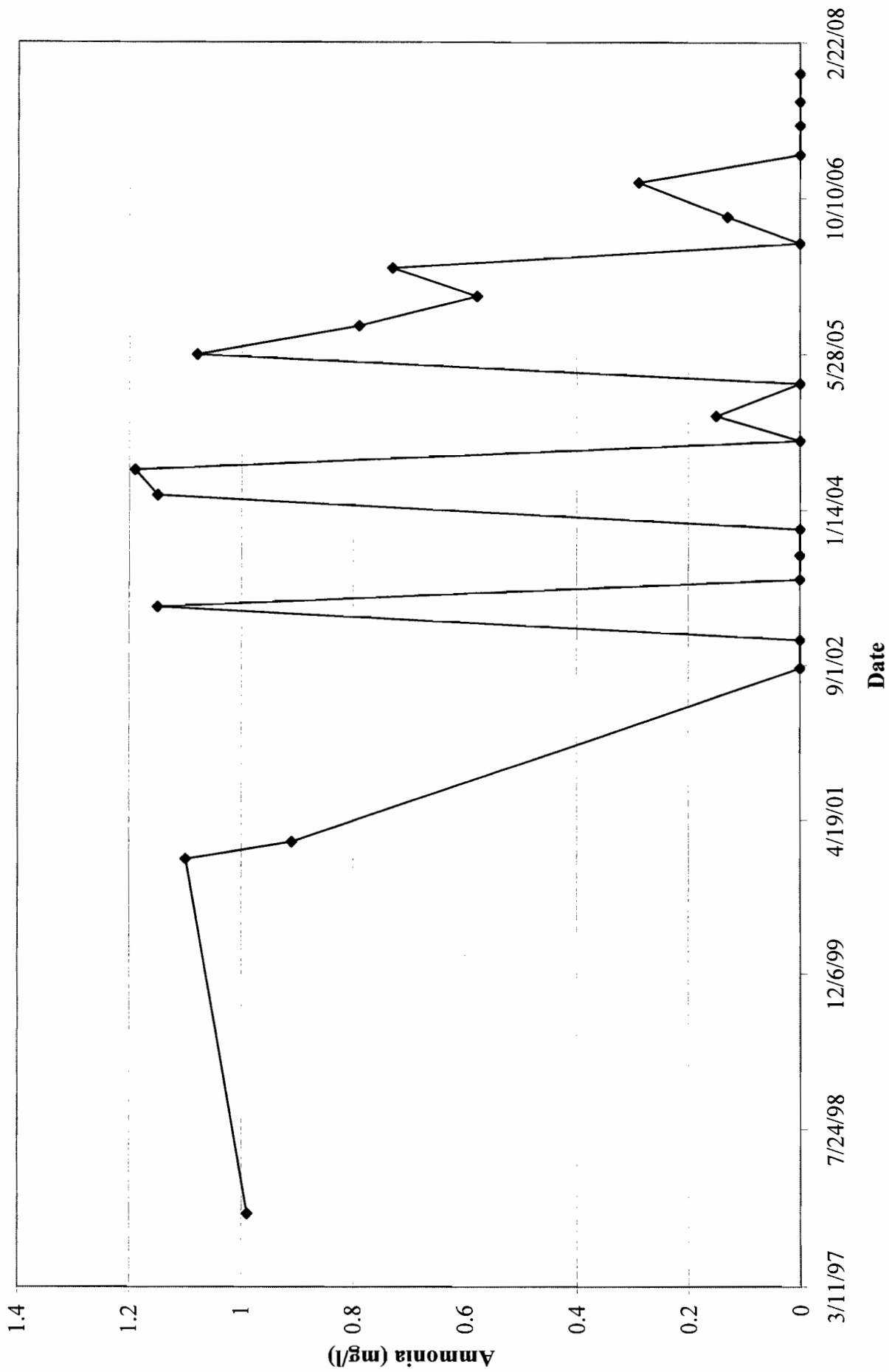
TOTAL KJELDAHL NITROGEN IN MW-11S



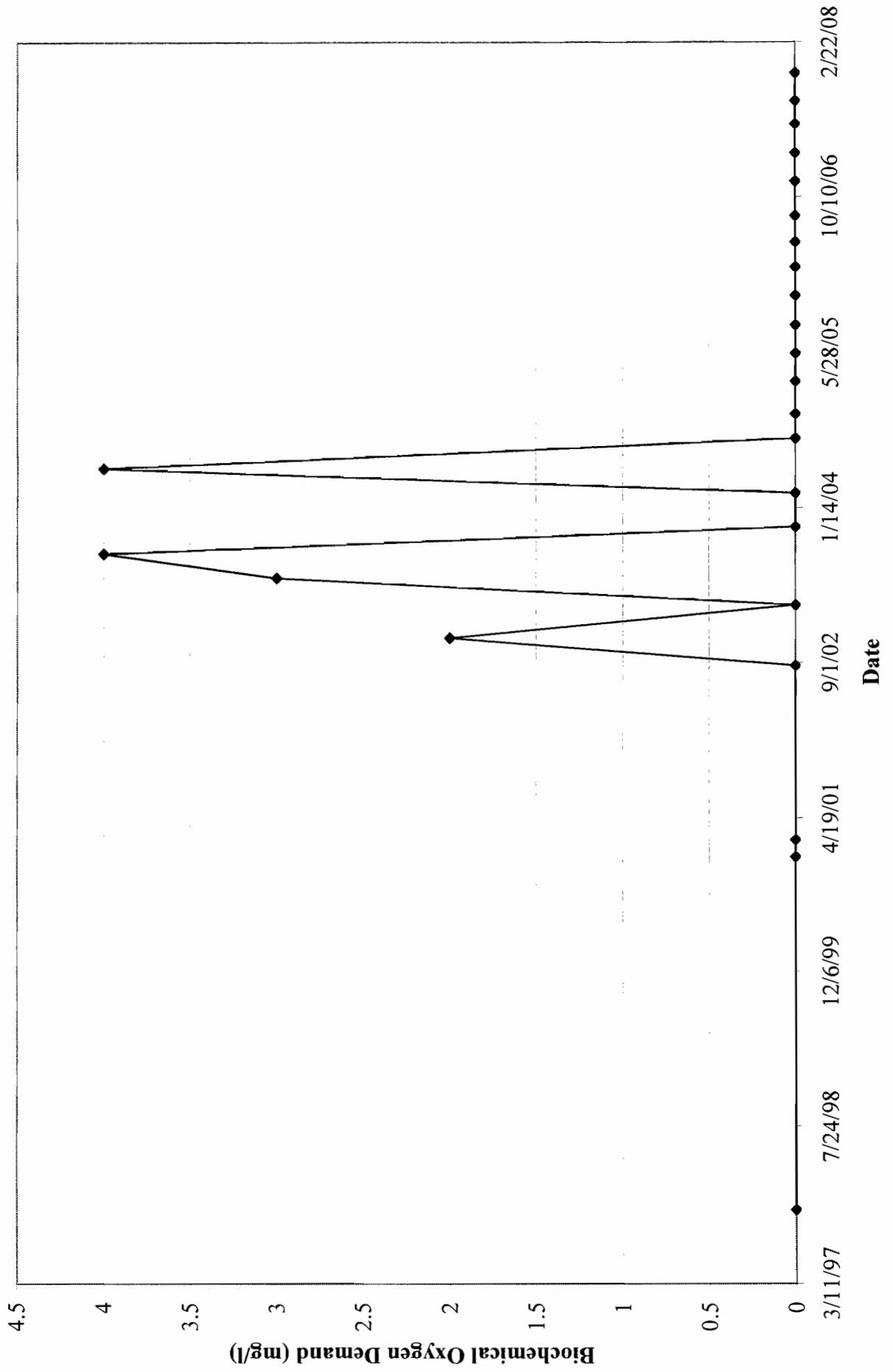
ALKALINITY IN MW-11I



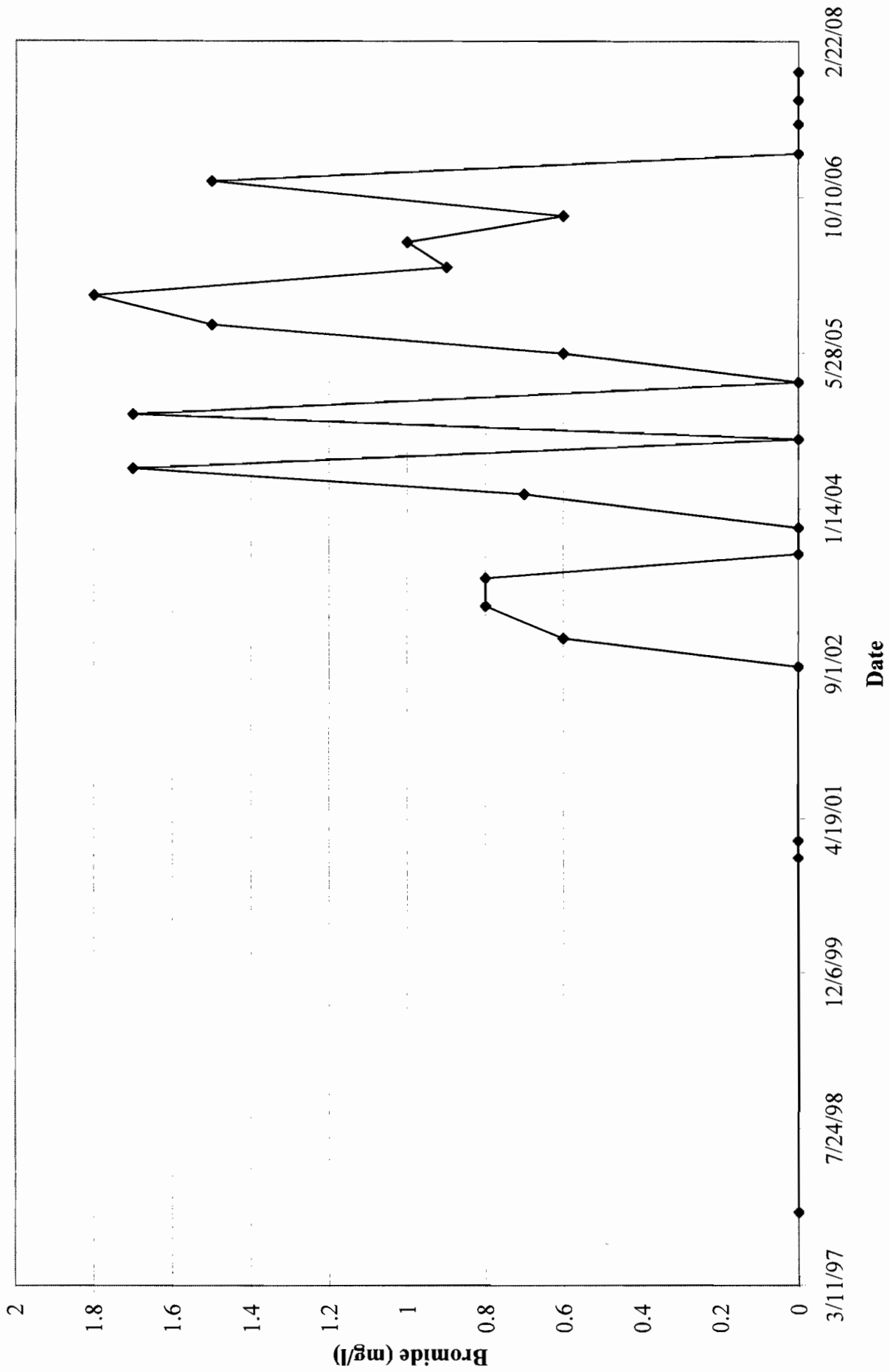
AMMONIA IN MW-11I



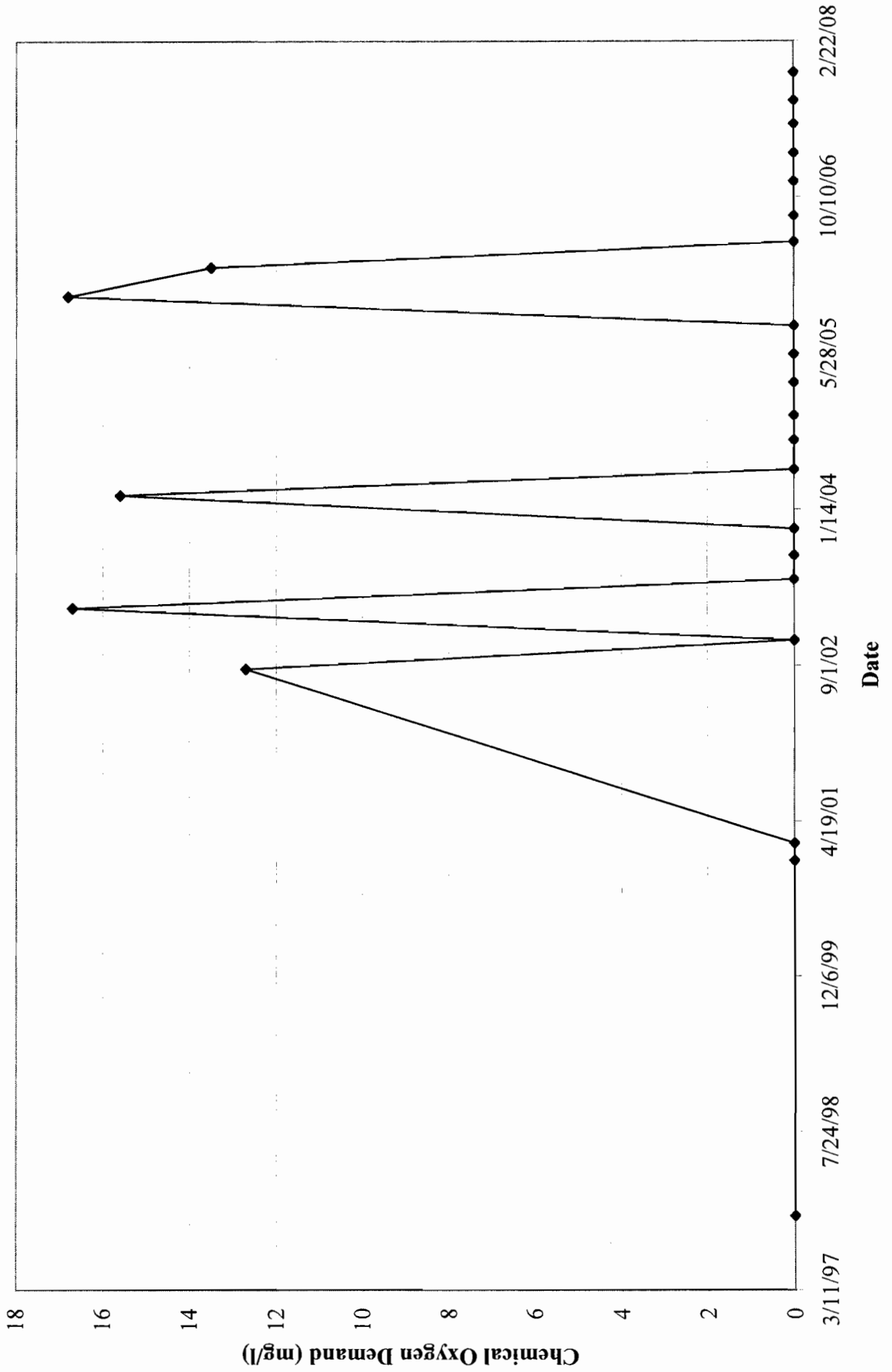
BIOCHEMICAL OXYGEN DEMAND IN MW-11I



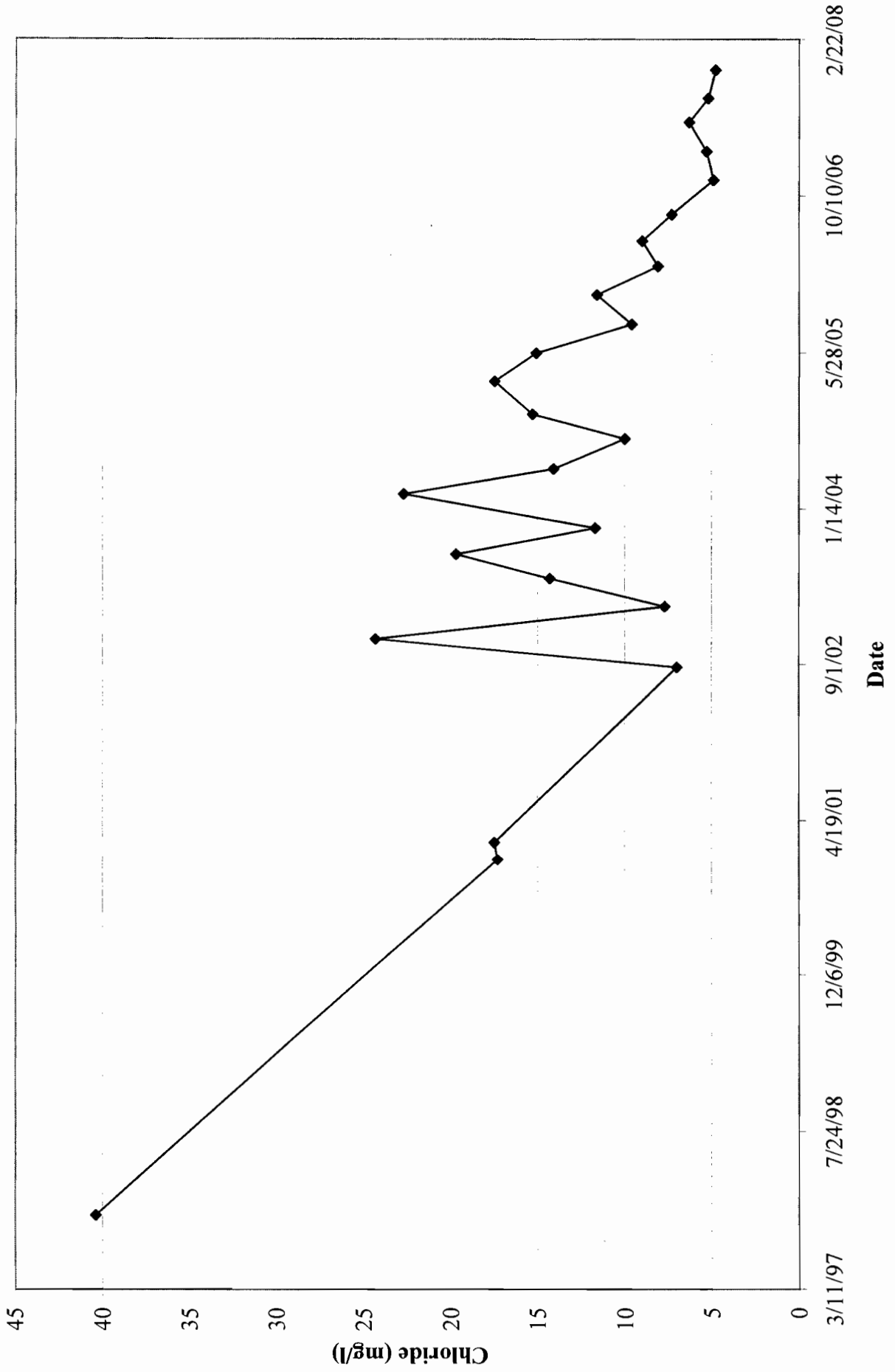
BROMIDE IN MW-11I



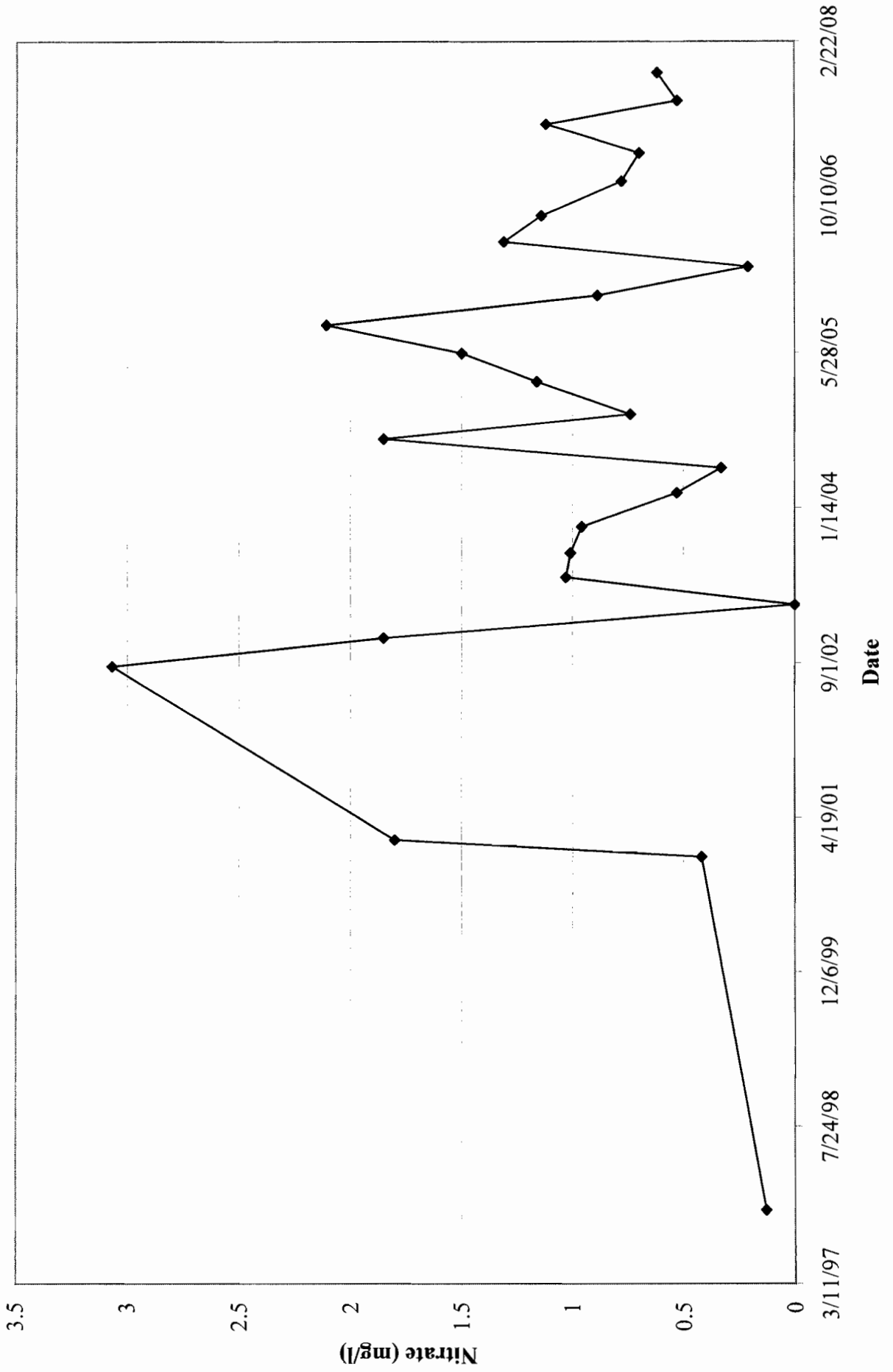
CHEMICAL OXYGEN DEMAND IN MW-11I



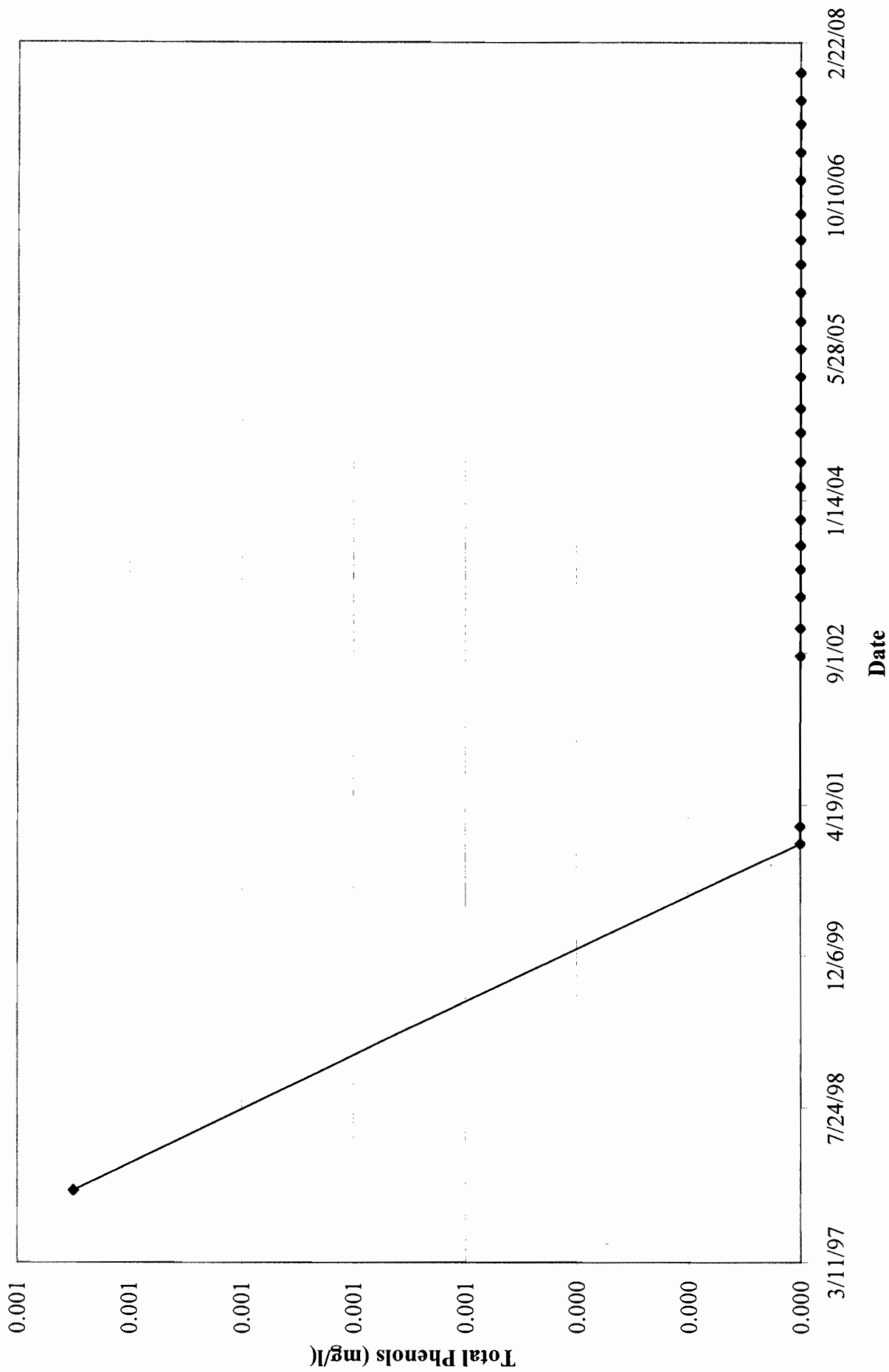
CHLORIDE IN MW-11I



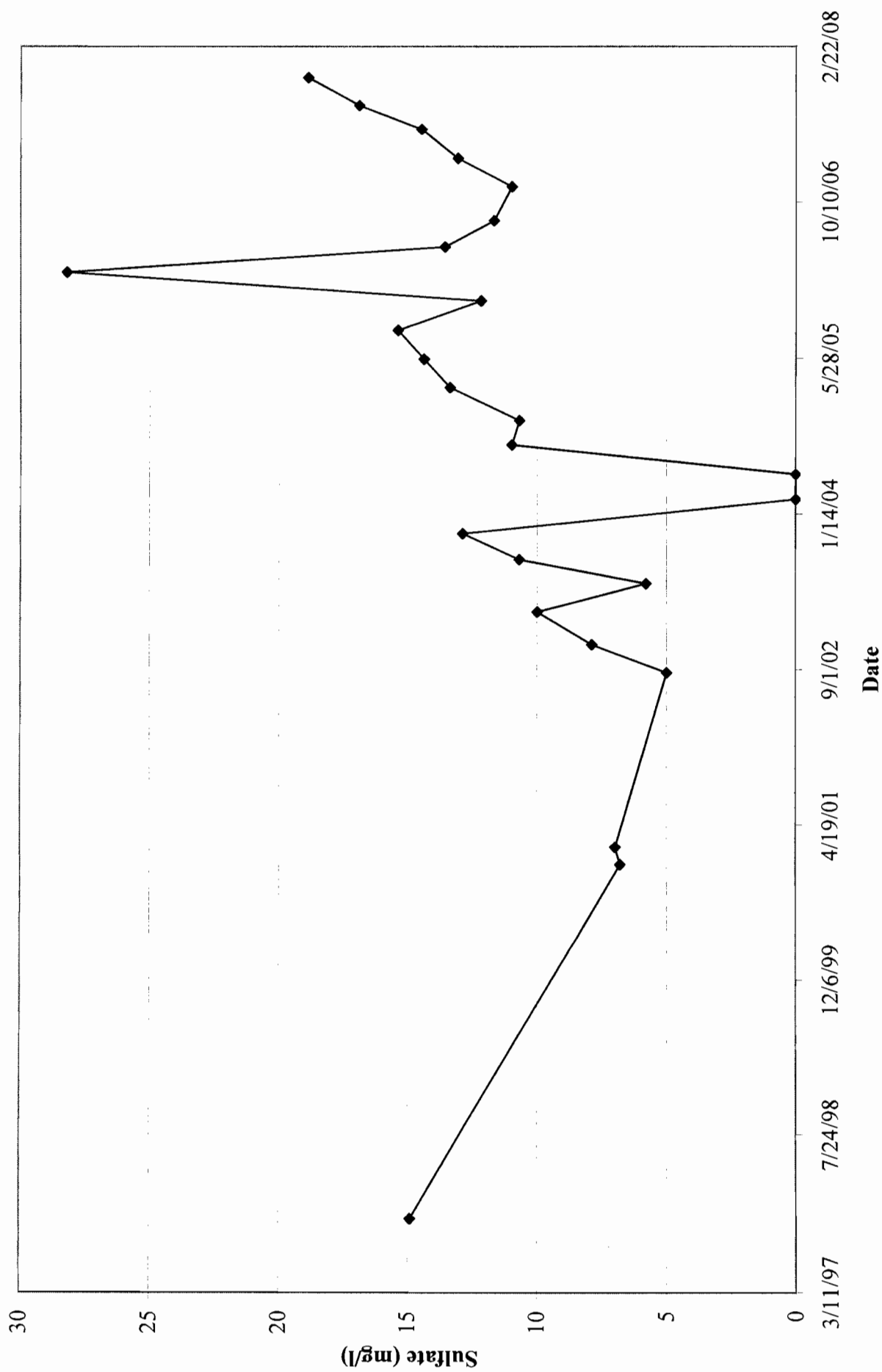
NITRATE IN MW-11I



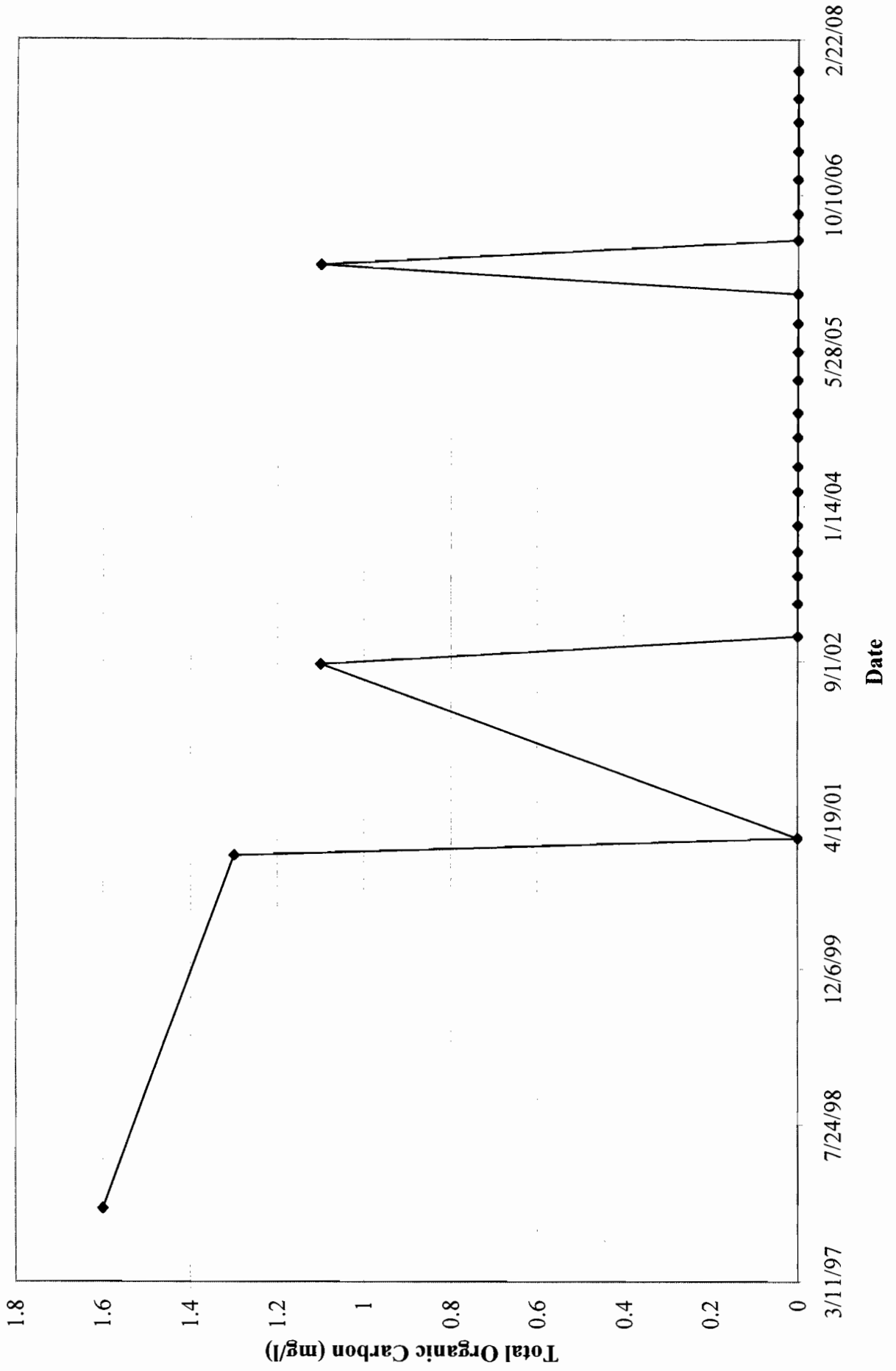
TOTAL PHENOLS IN MW-11I



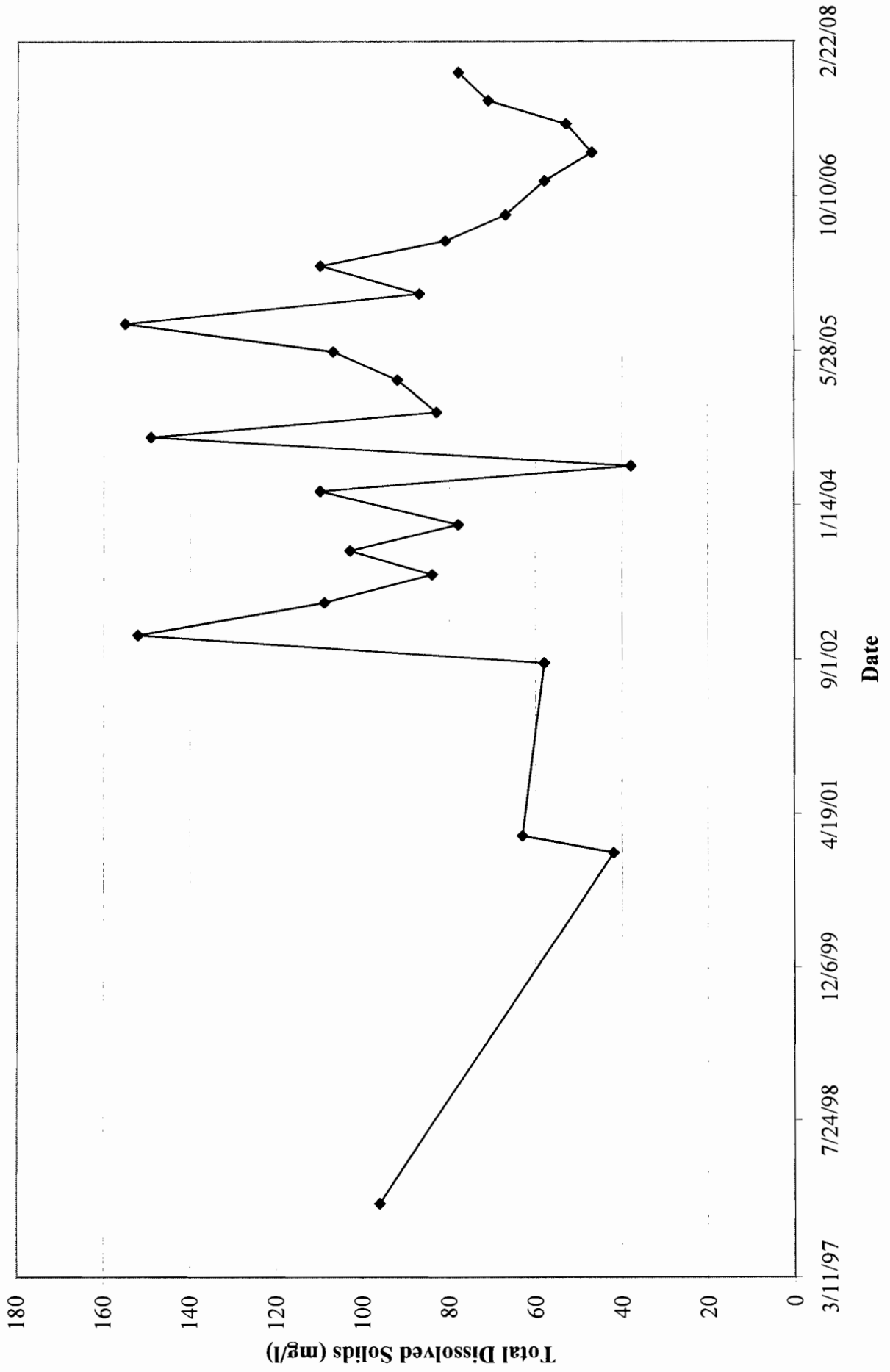
SULFATE IN MW-11I



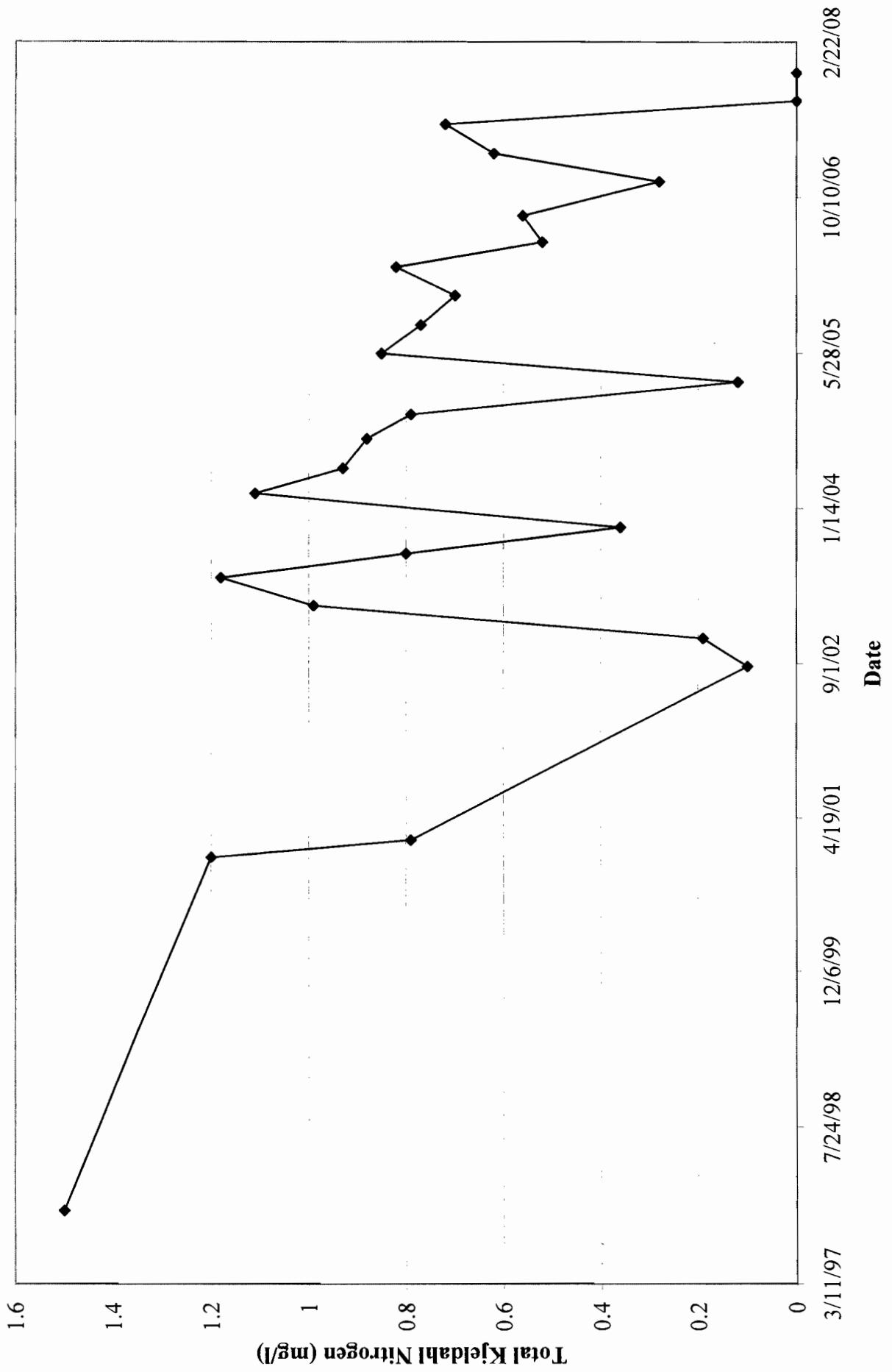
TOTAL ORGANIC CARBON IN MW-11I



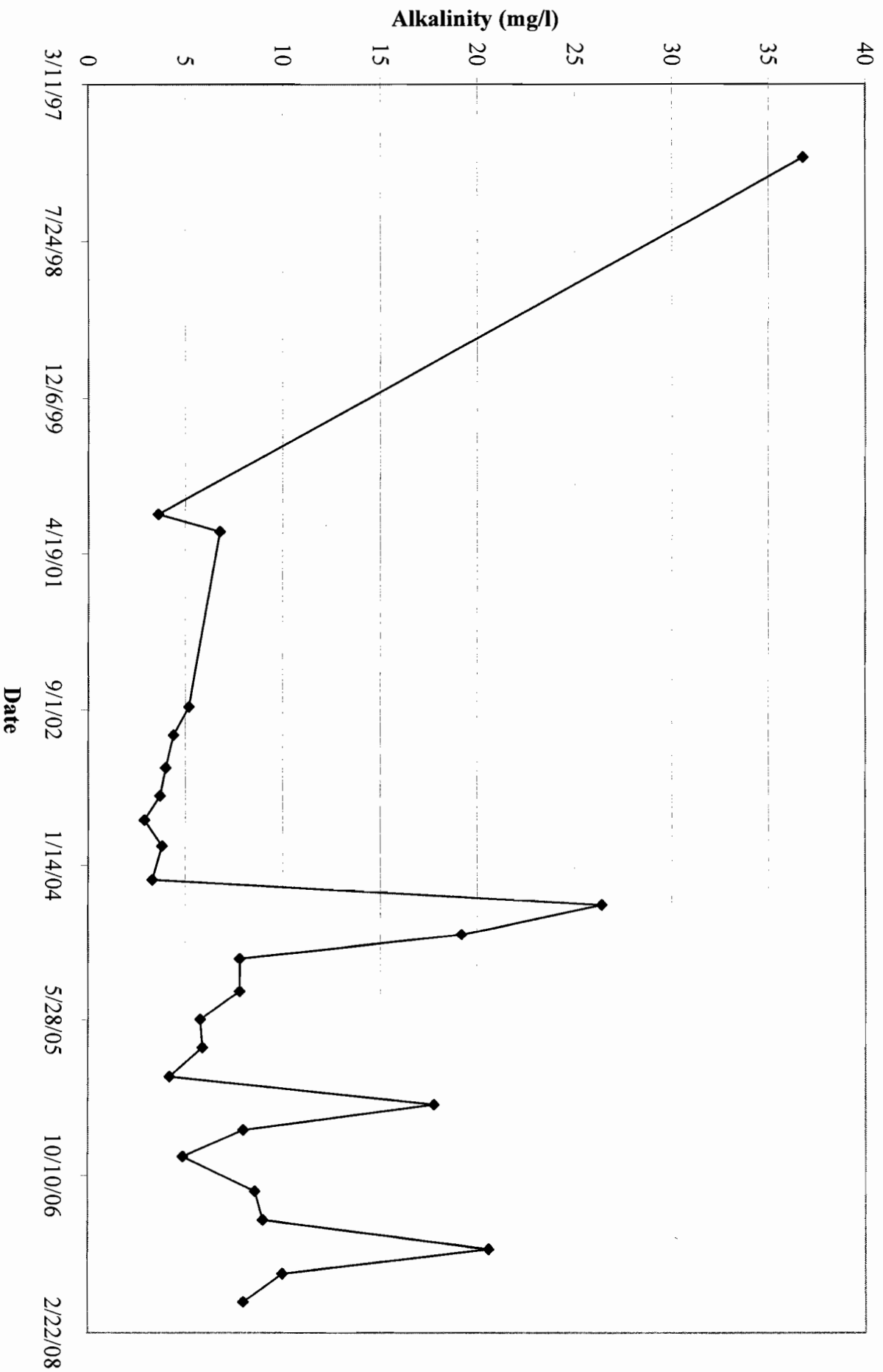
TOTAL DISSOLVED SOLIDS IN MW-11I



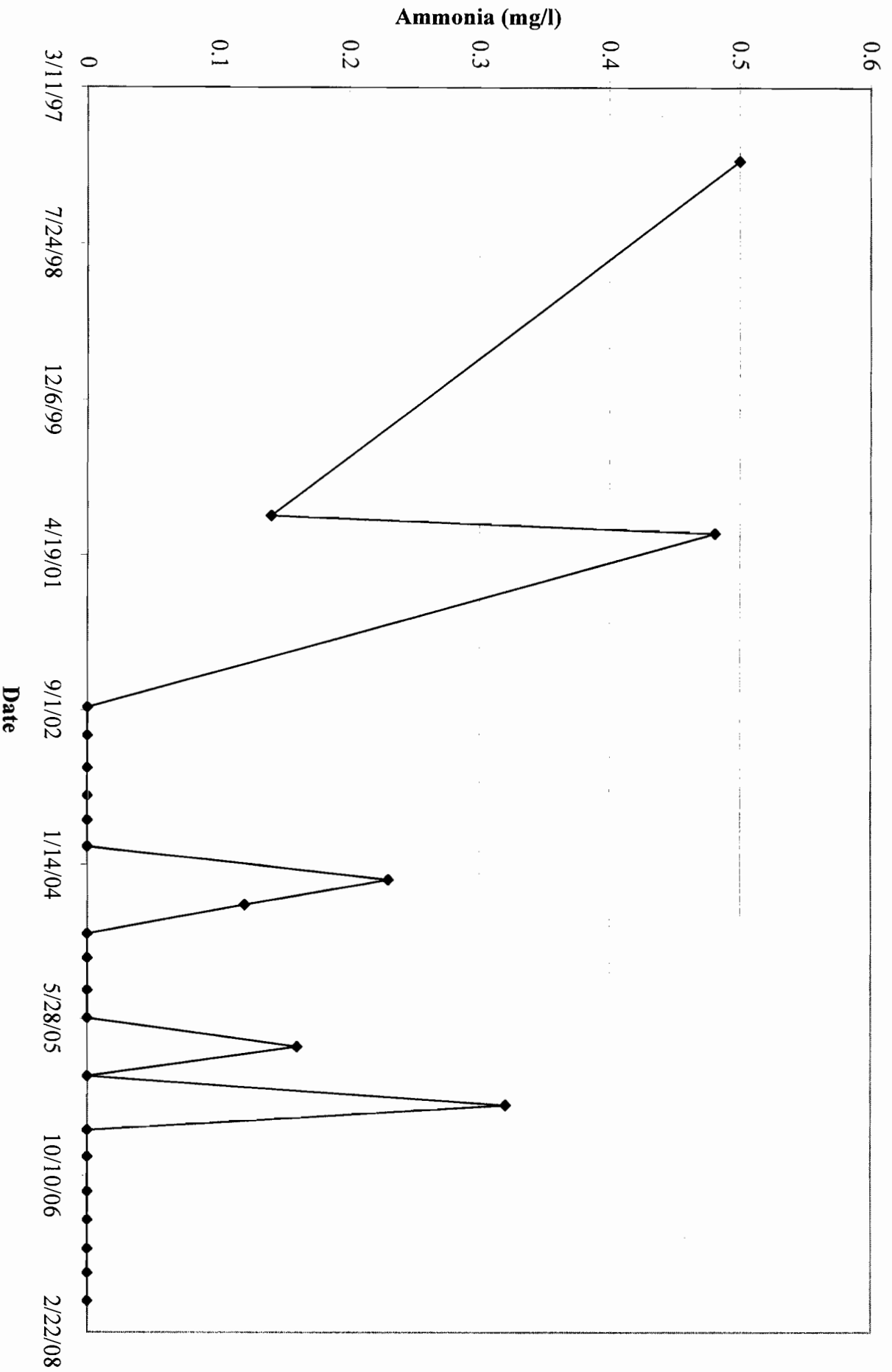
TOTAL KJELDAHL NITROGEN IN MW-11I



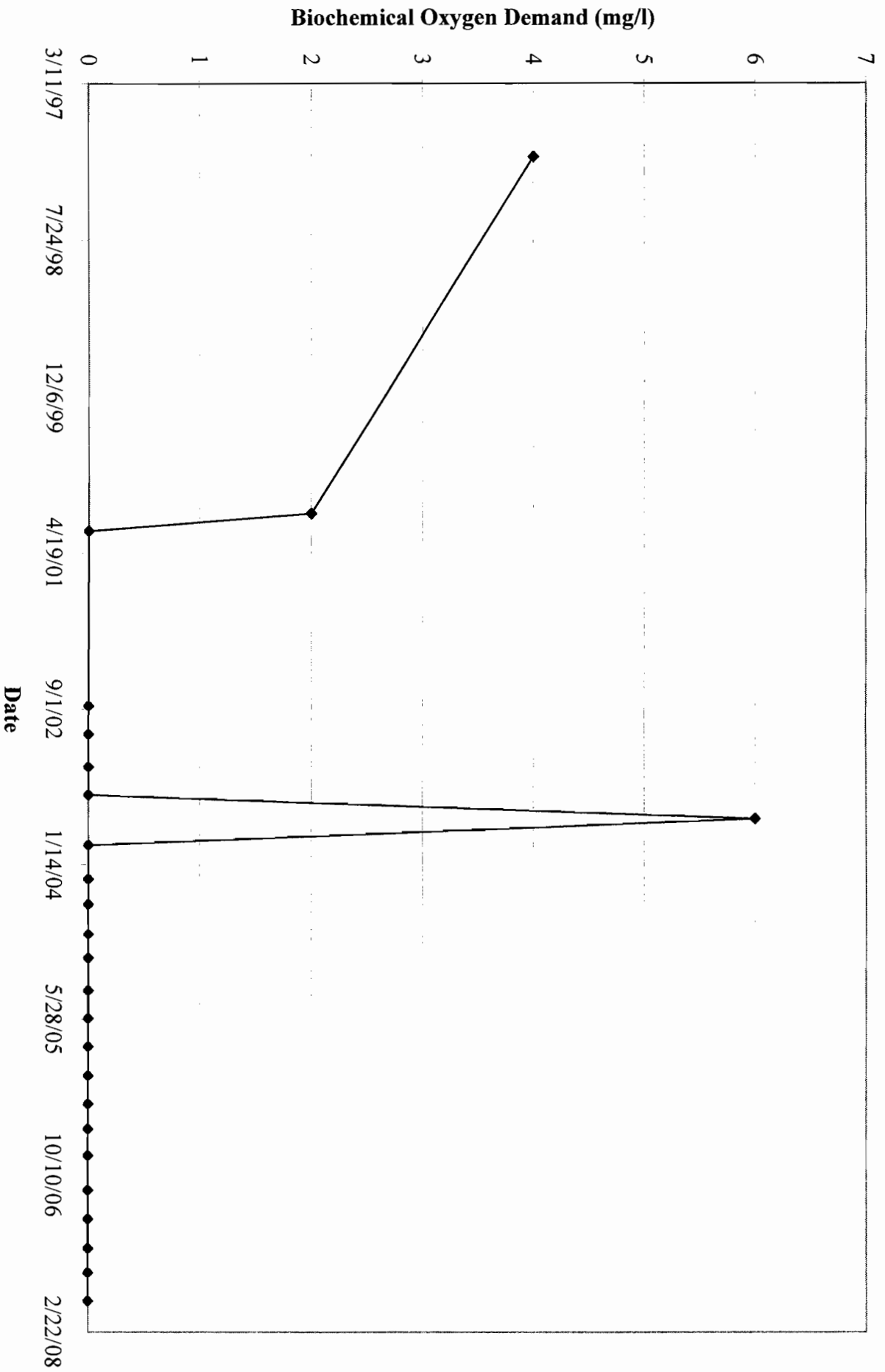
ALKALINITY IN MW-11D



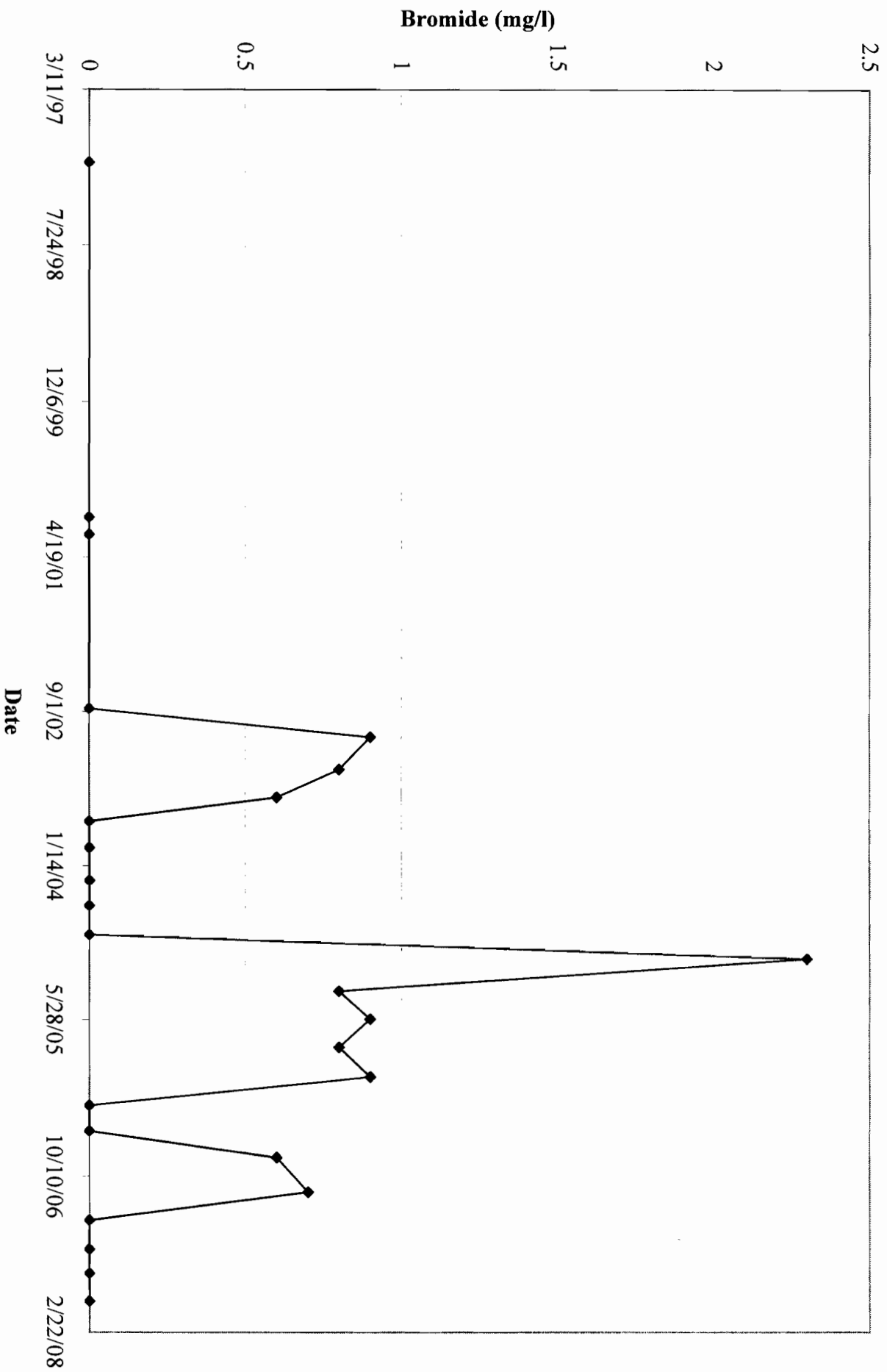
AMMONIA IN MW-11D



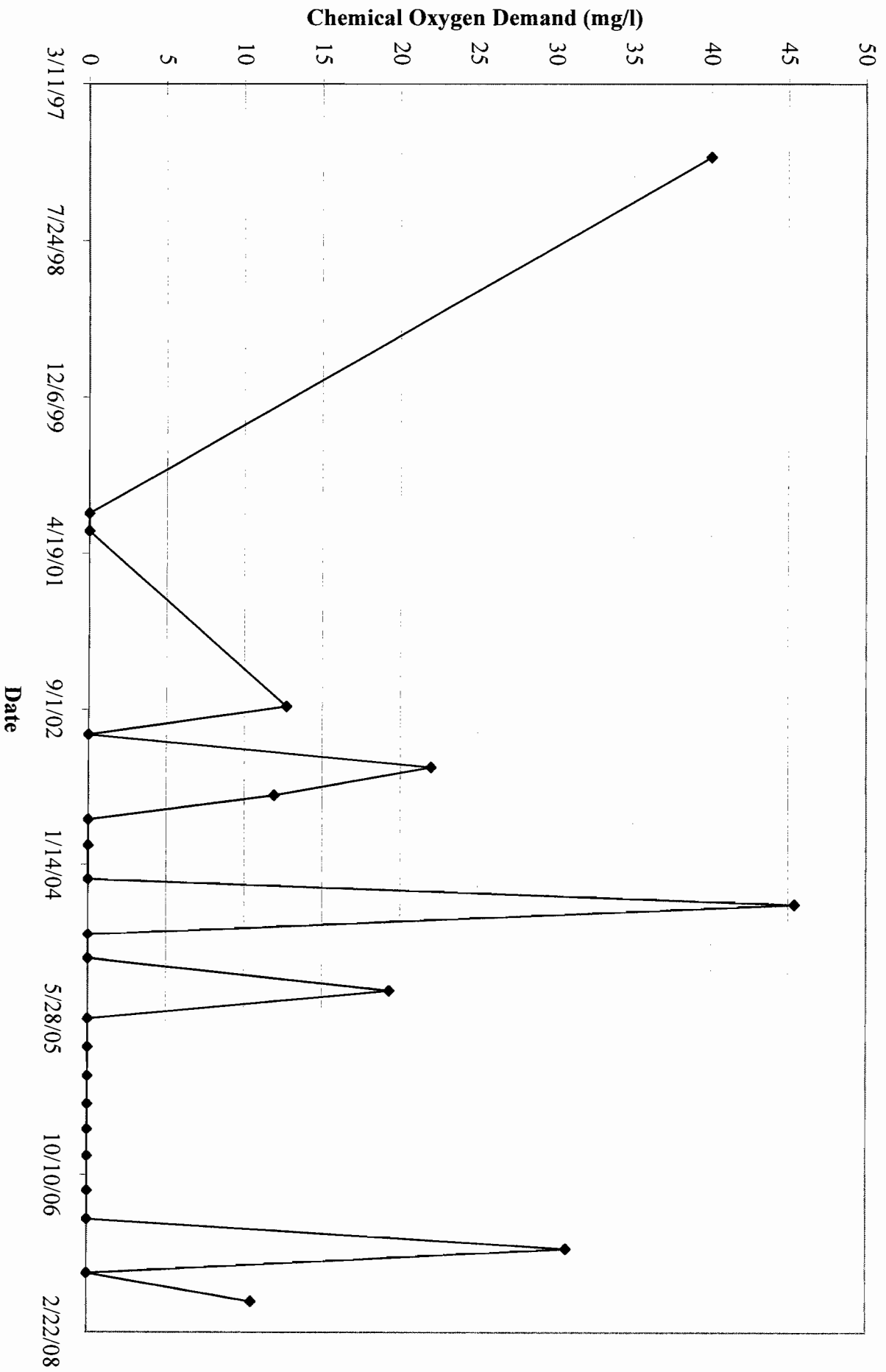
BIOCHEMICAL OXYGEN DEMAND IN MW-11D



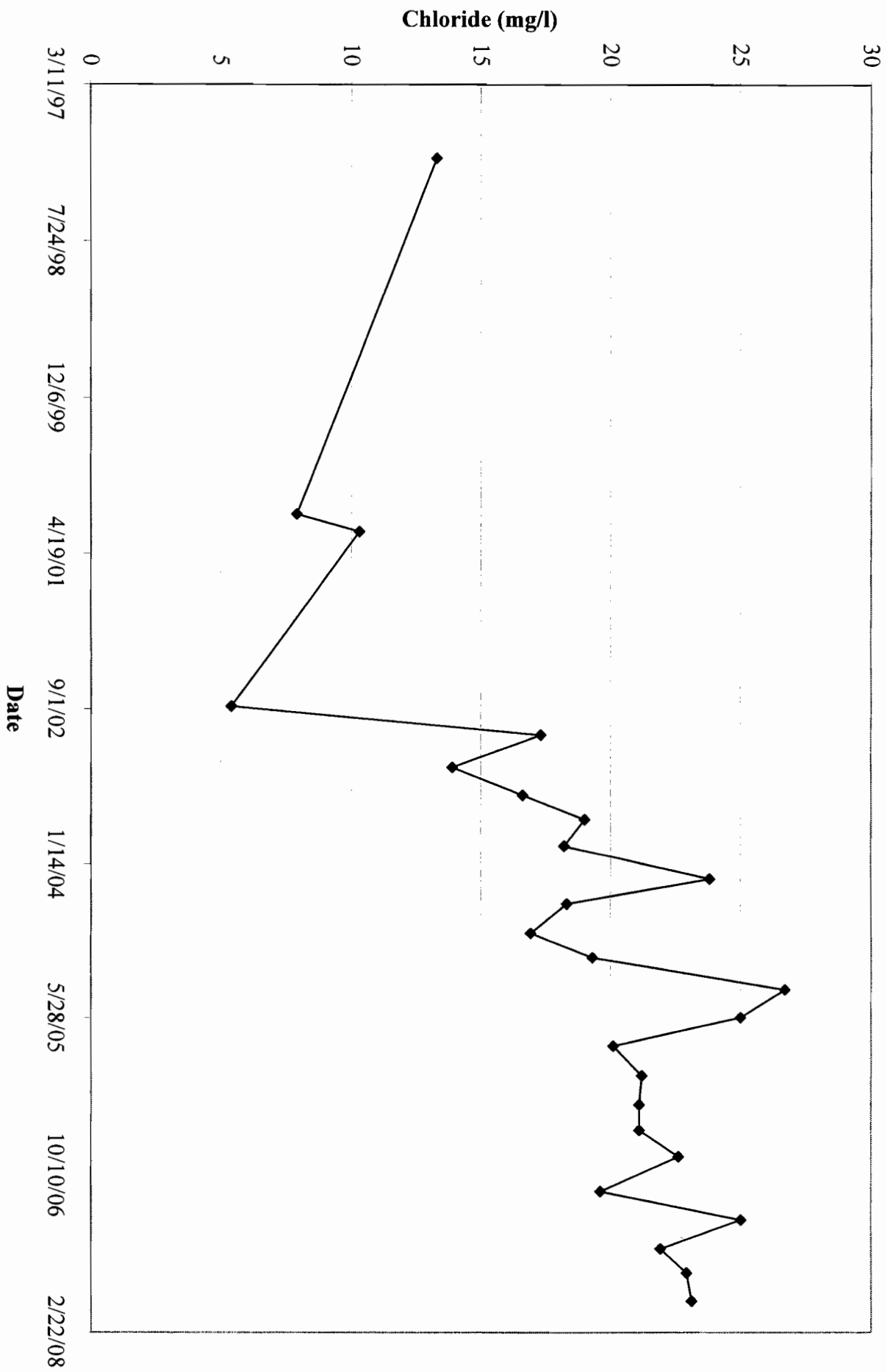
BROMIDE IN MW-11D



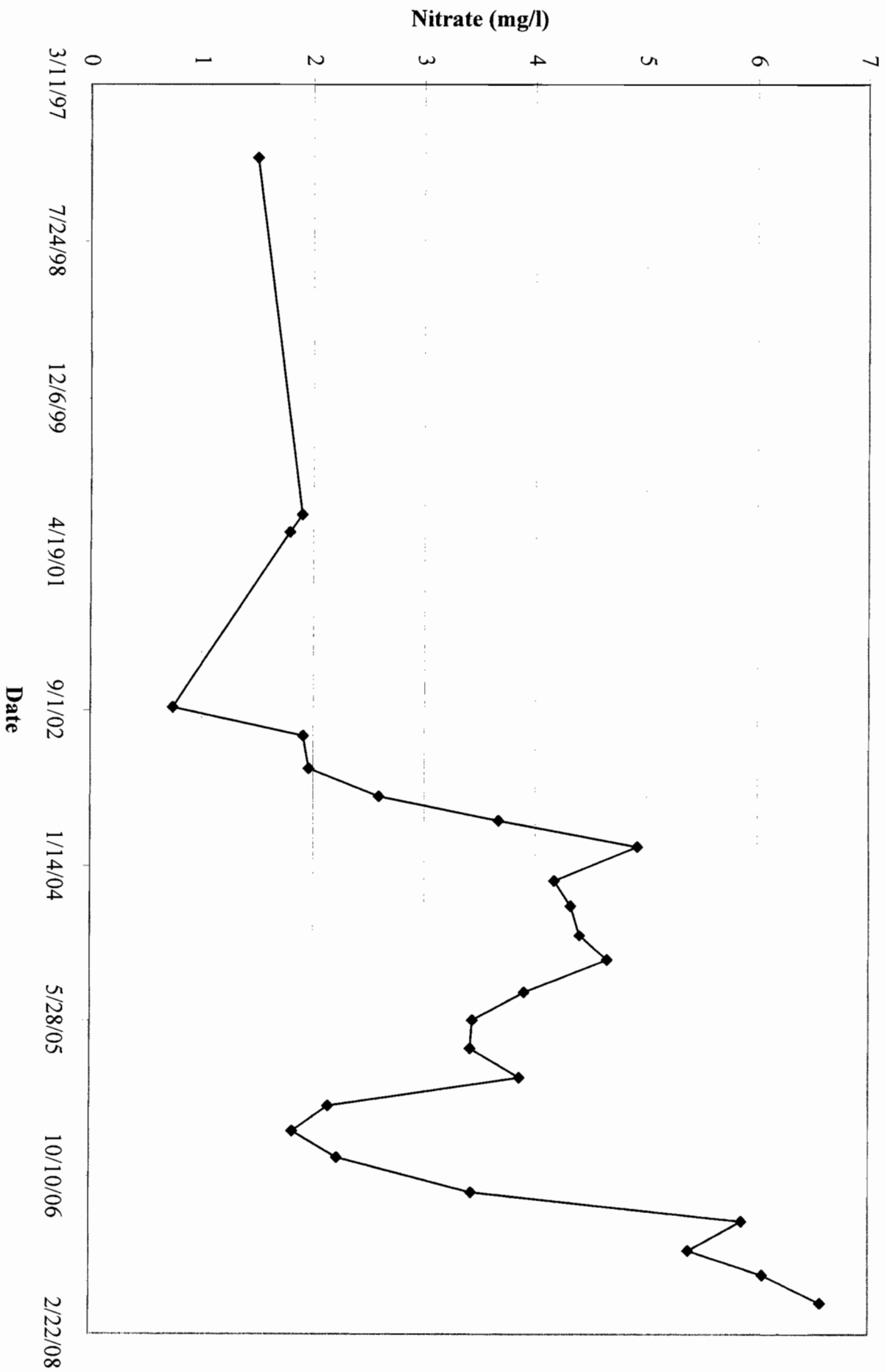
CHEMICAL OXYGEN DEMAND IN MW-11D



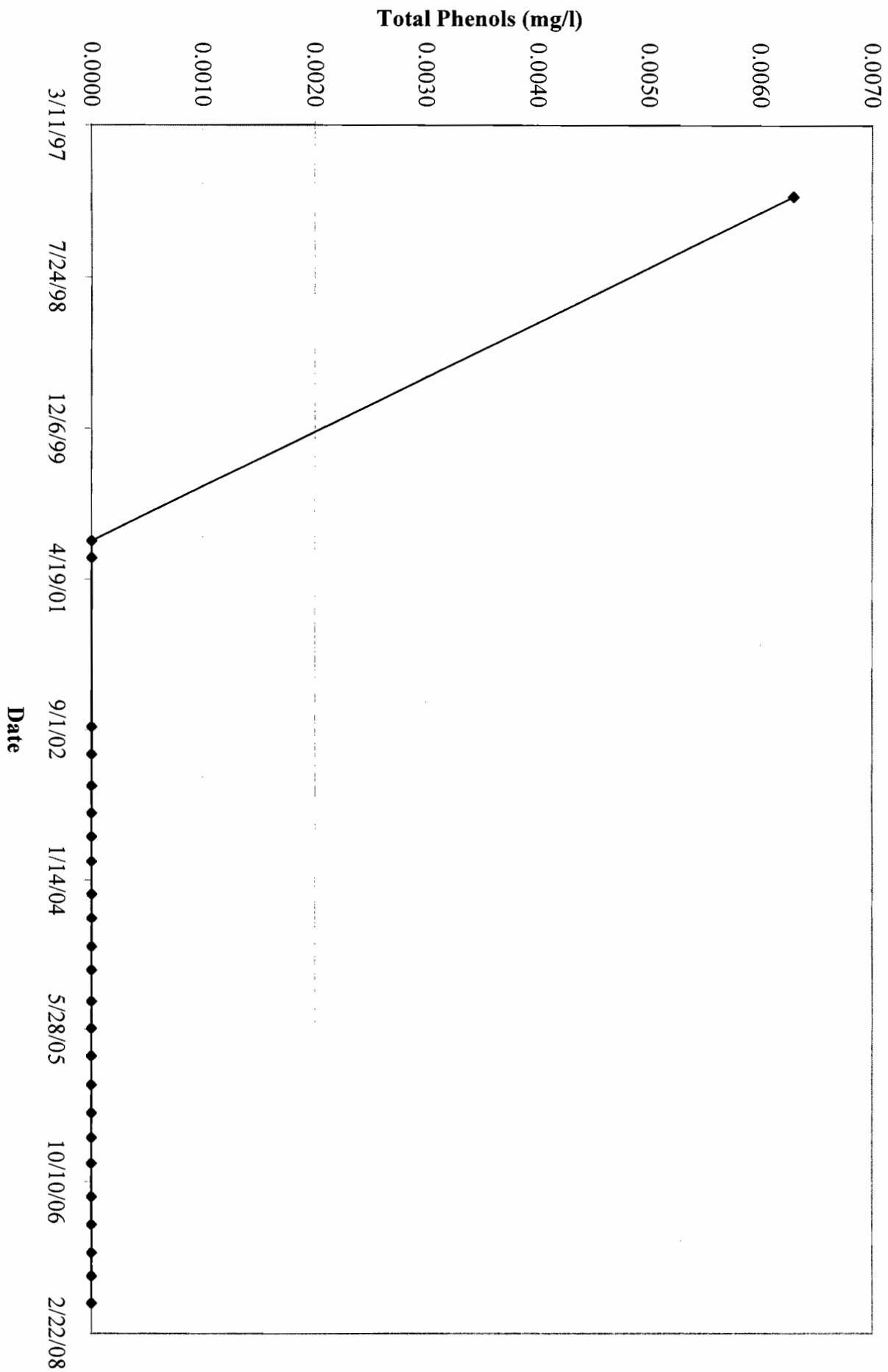
CHLORIDE IN MW-11D



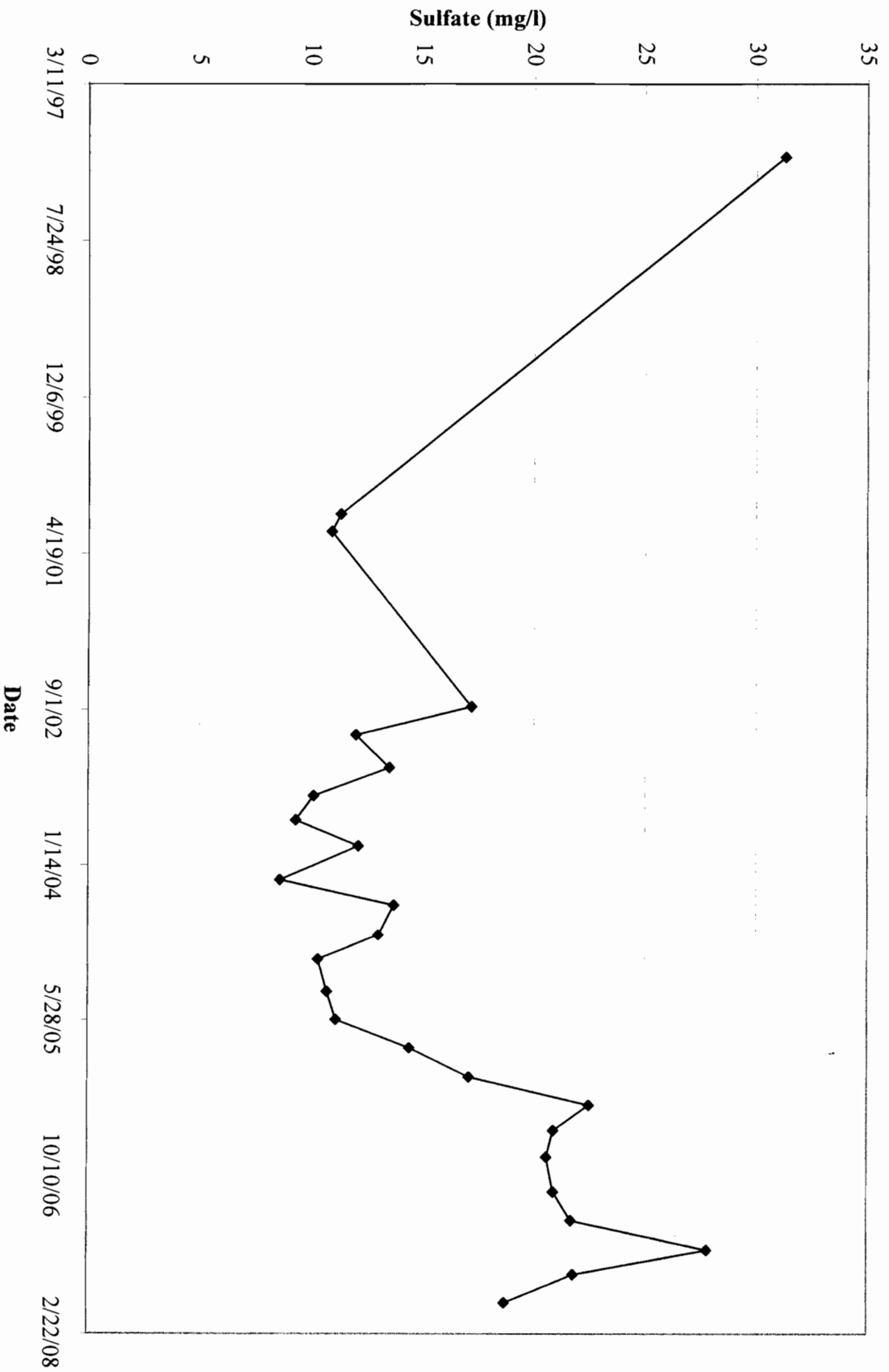
NITRATE IN MW-11D



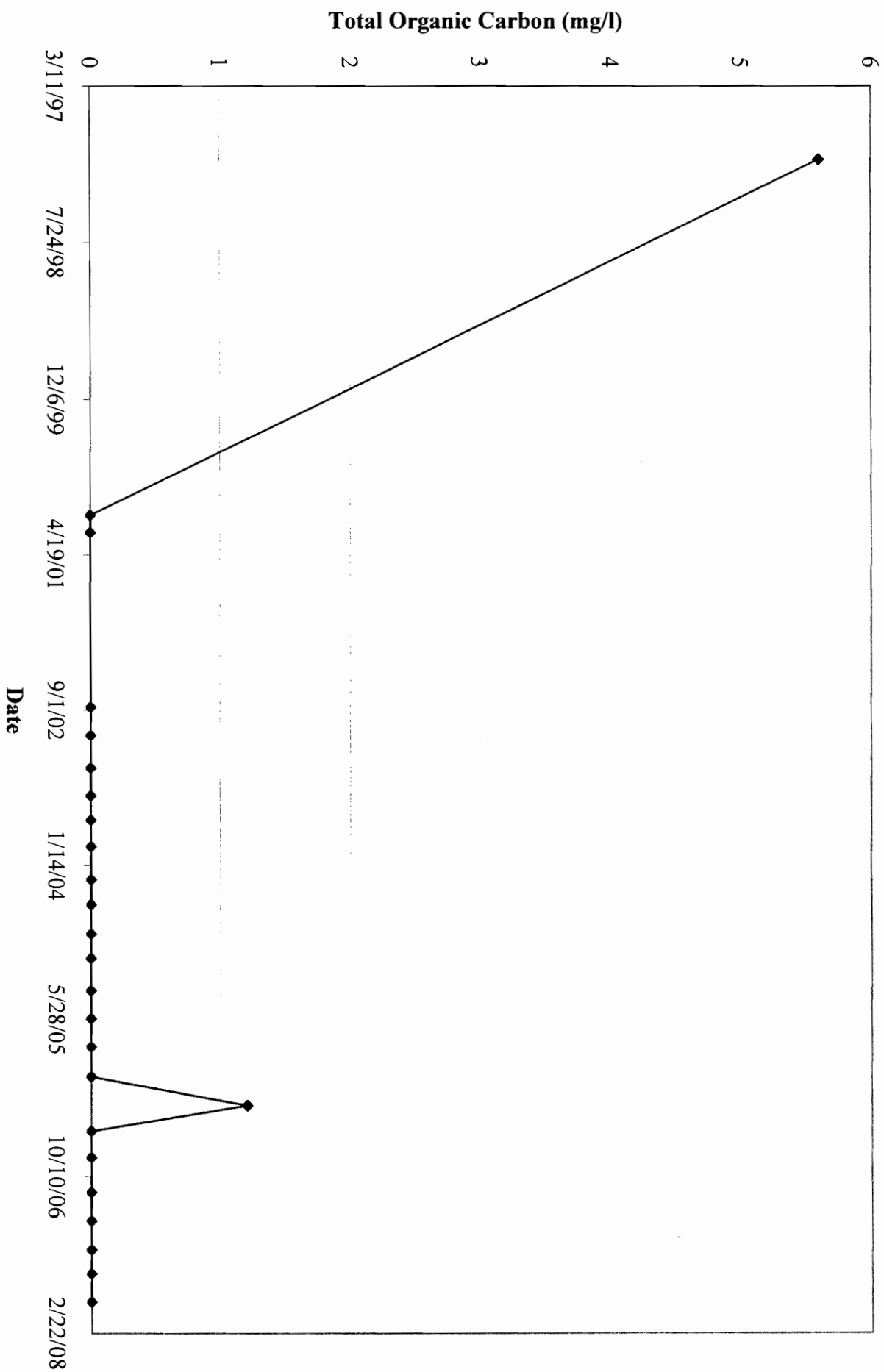
TOTAL PHENOLS IN MW-11D



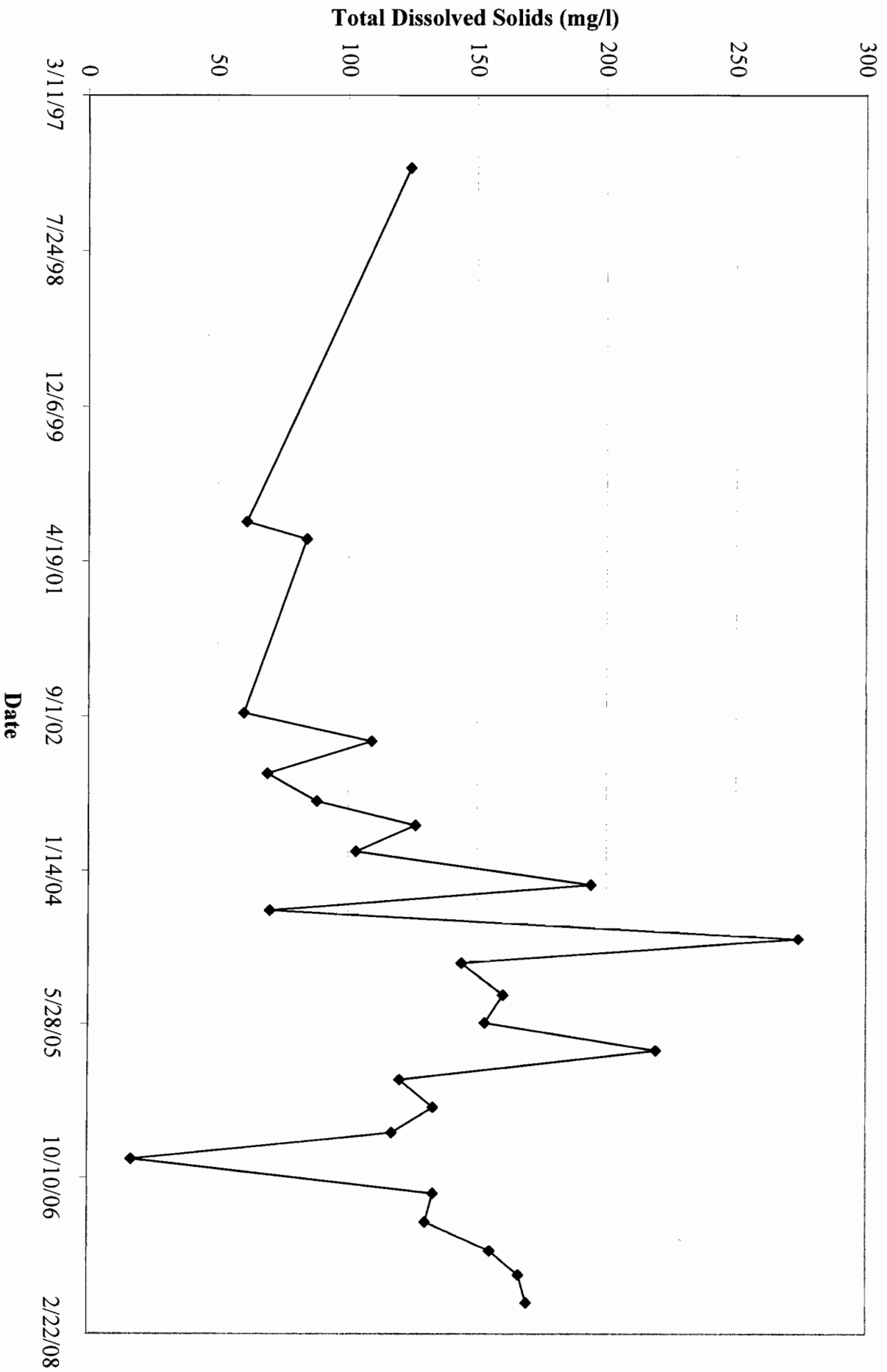
SULFATE IN MW-11D



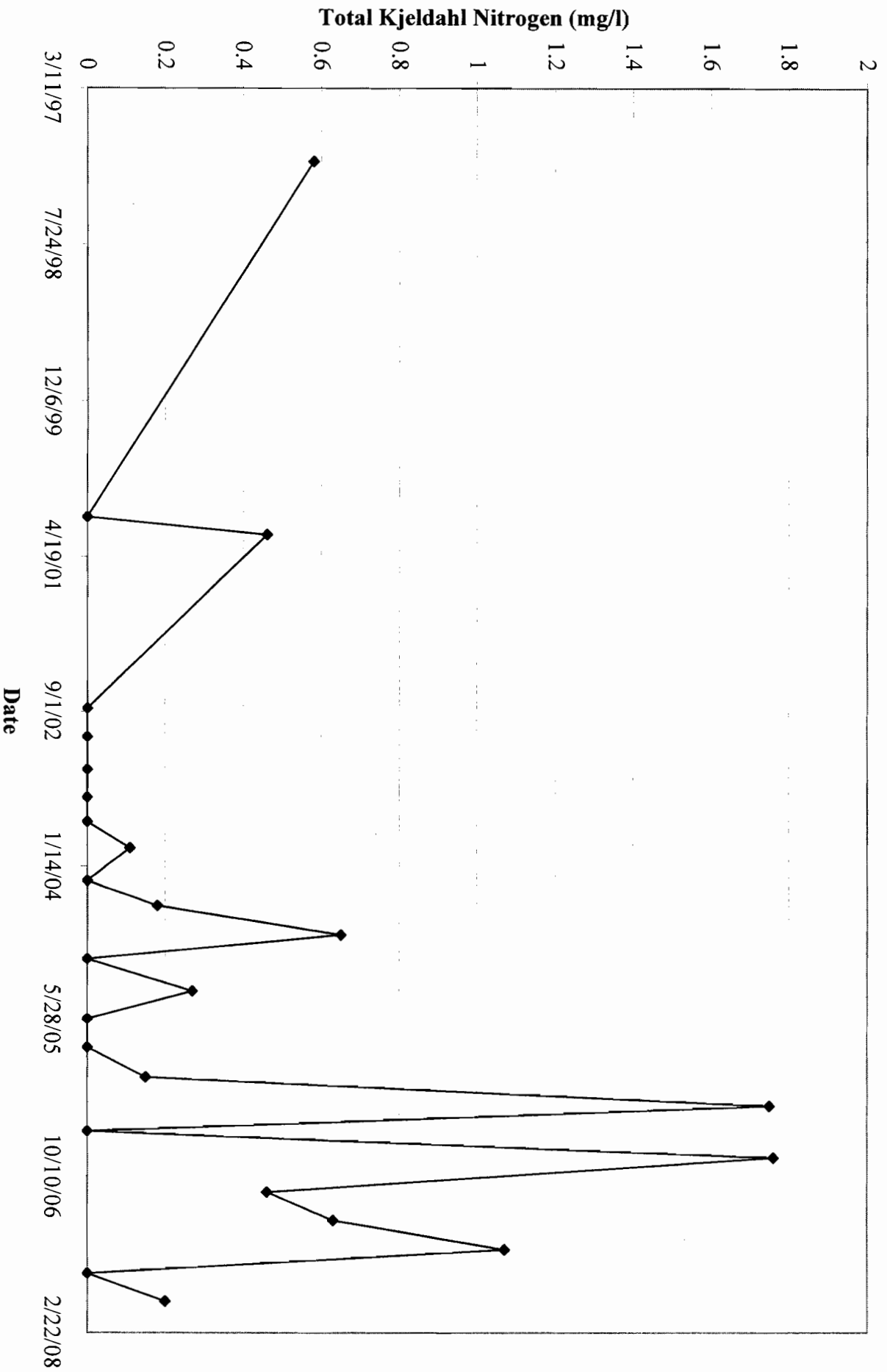
TOTAL ORGANIC CARBON IN MW-11D



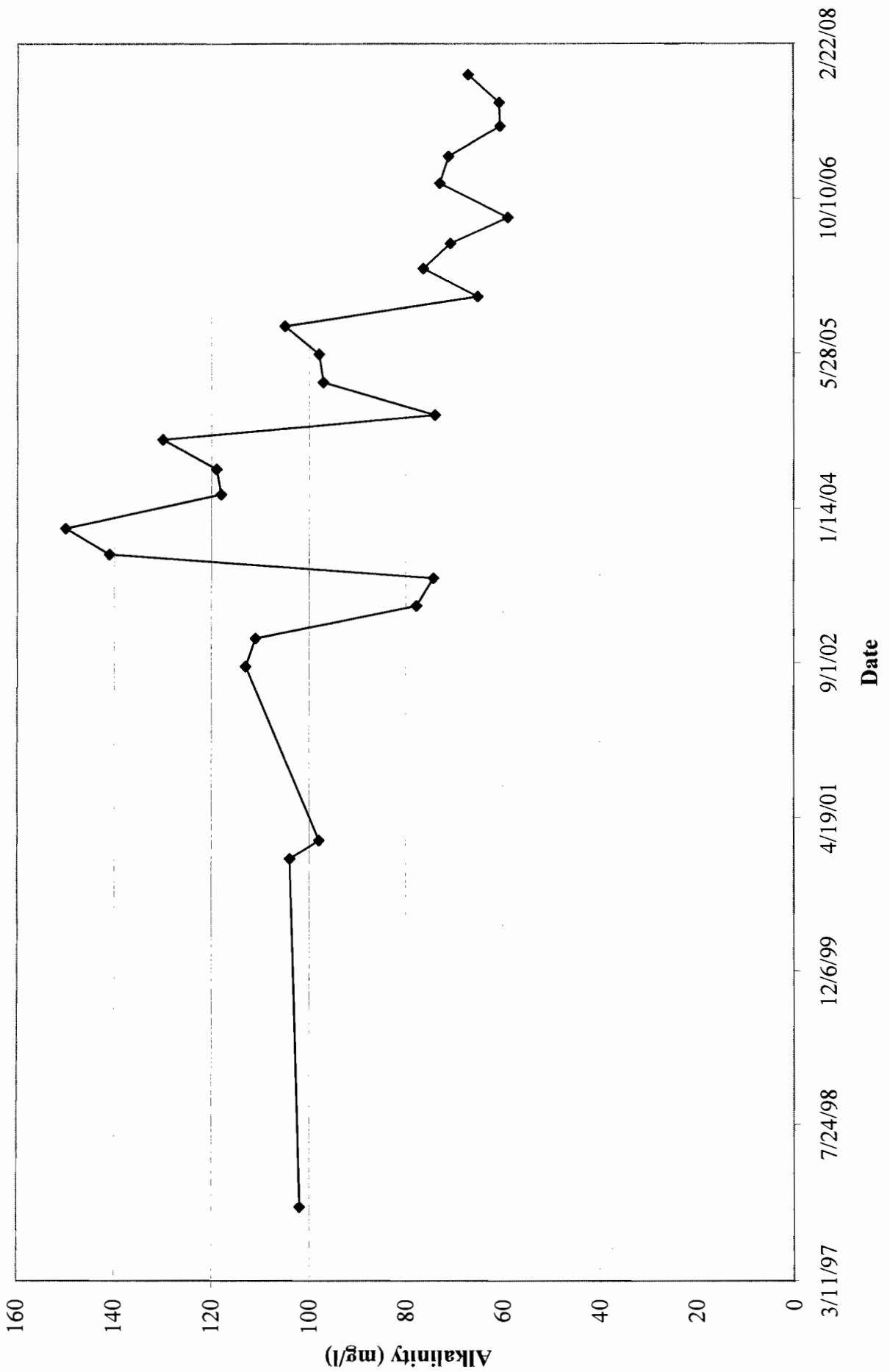
TOTAL DISSOLVED SOLIDS IN MW-11D



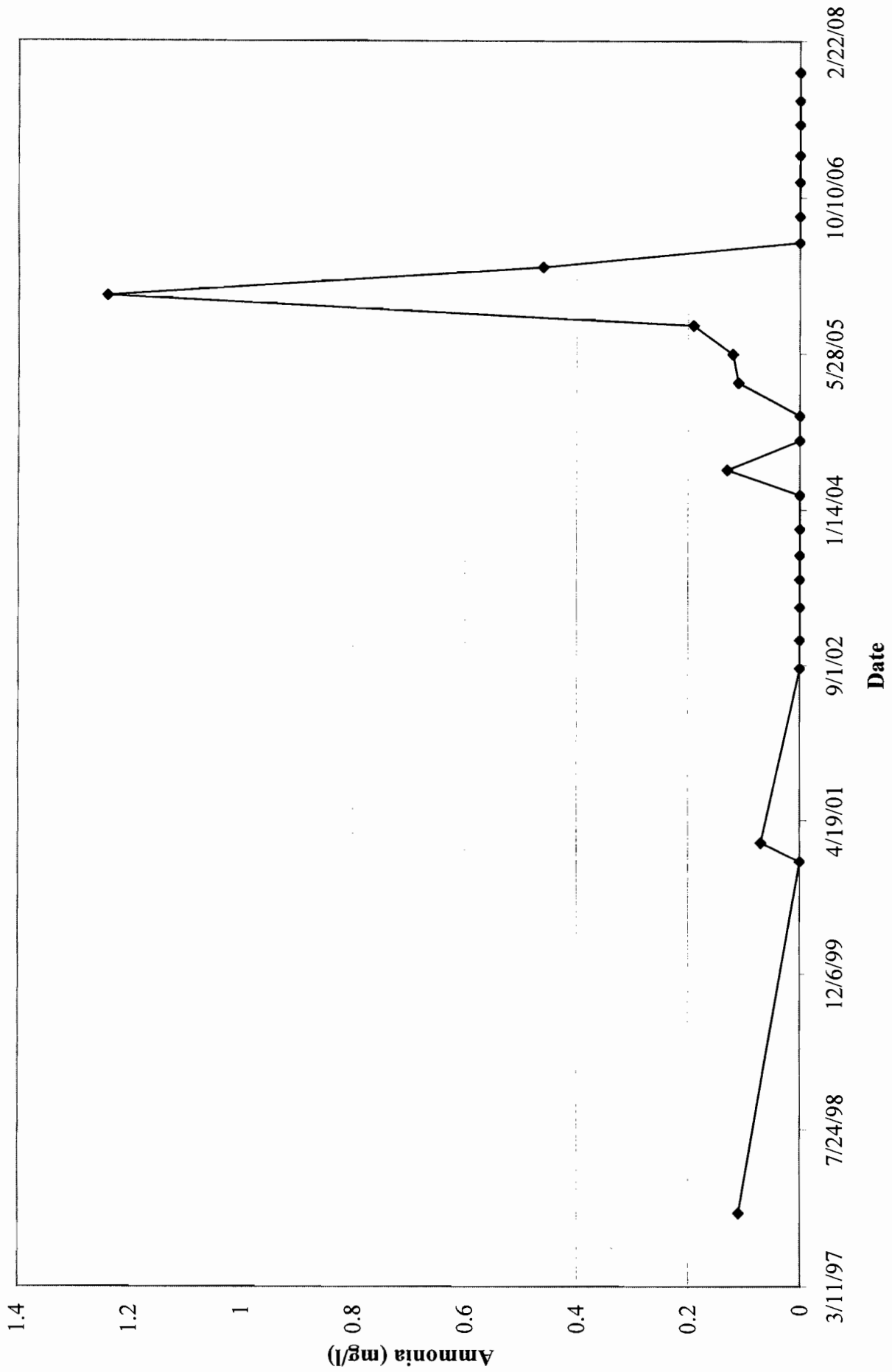
TOTAL KJELDAHL NITROGEN IN MW-11D



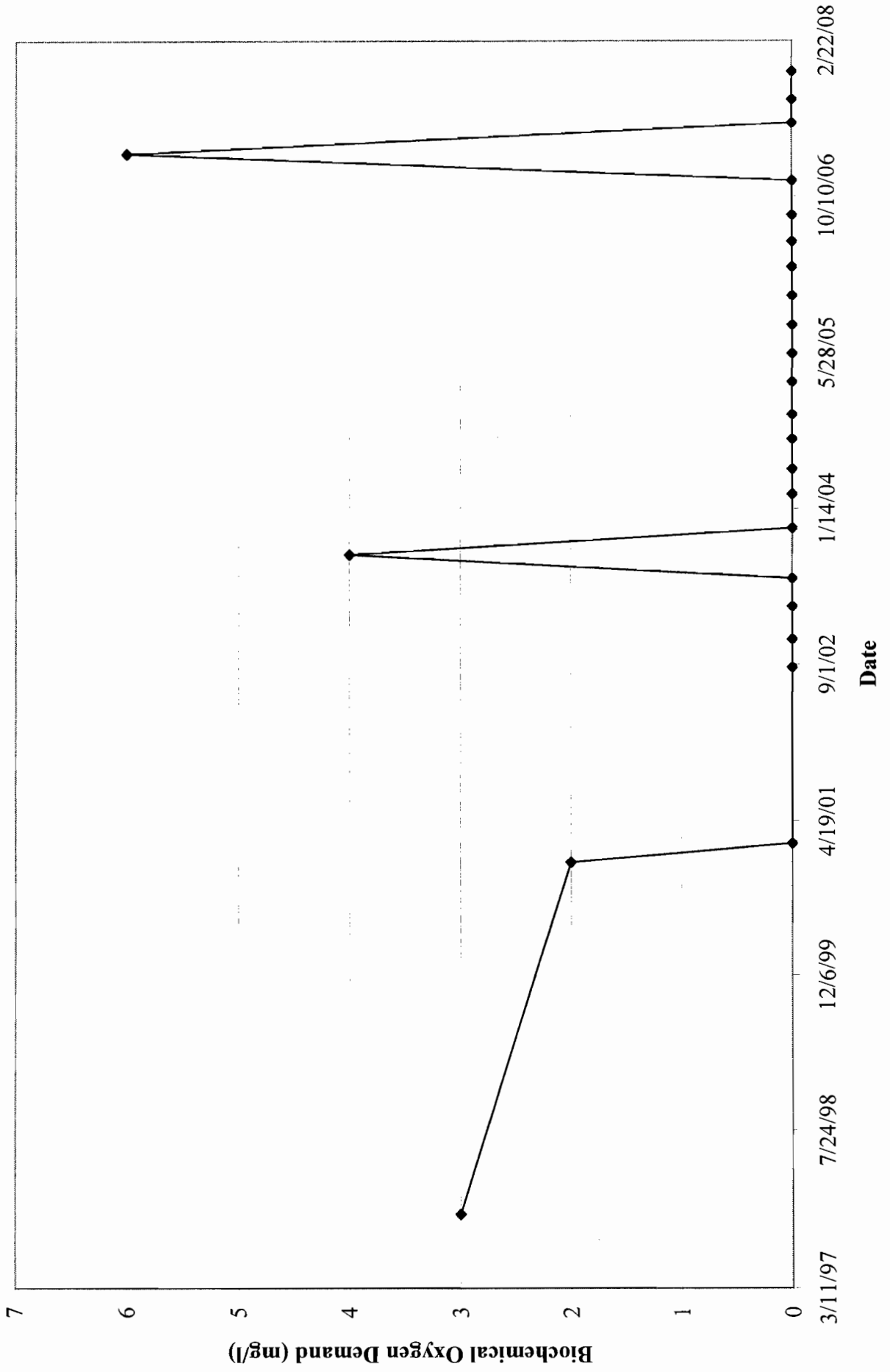
ALKALINITY IN MW-12S



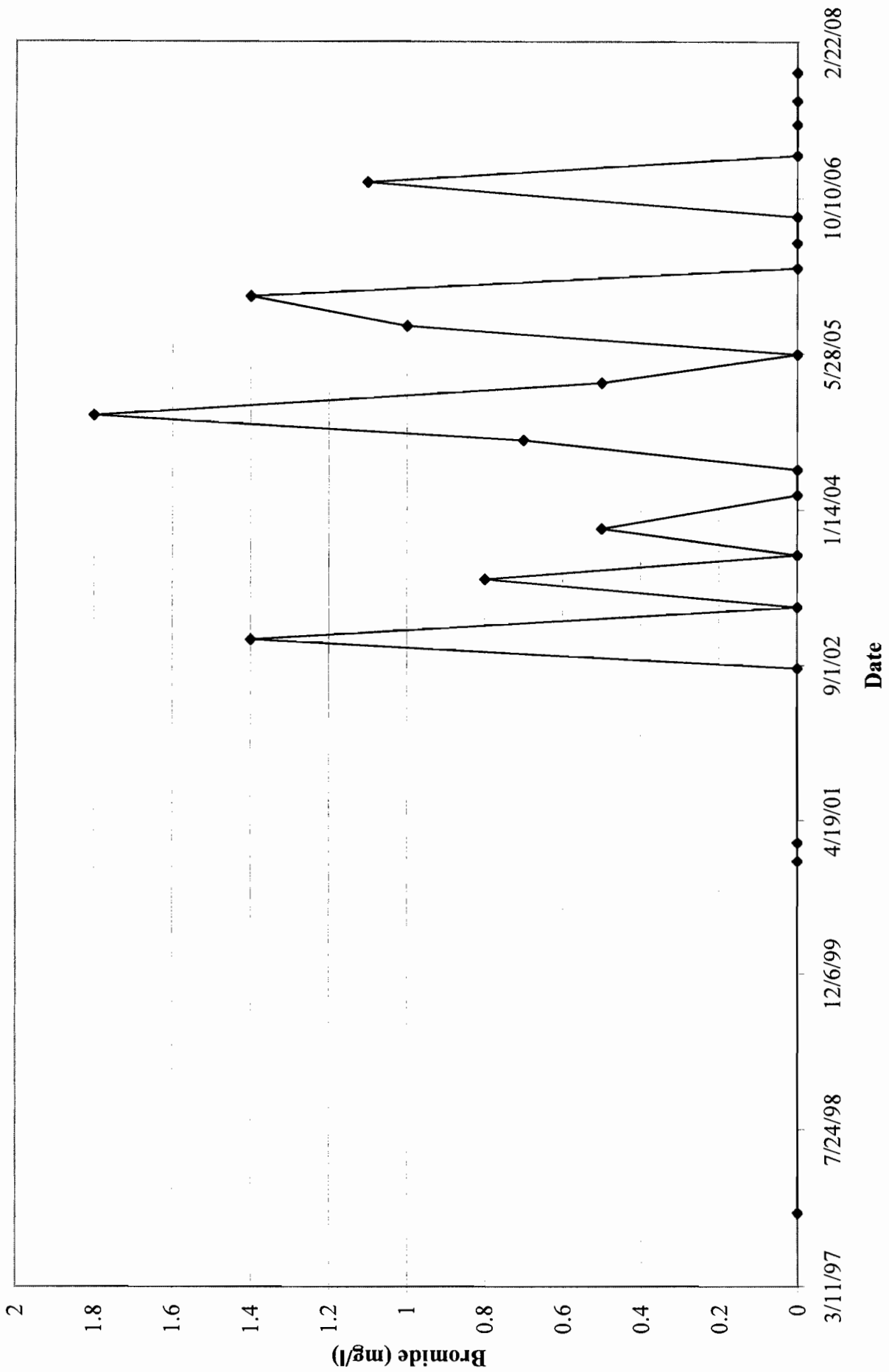
AMMONIA IN MW-12S



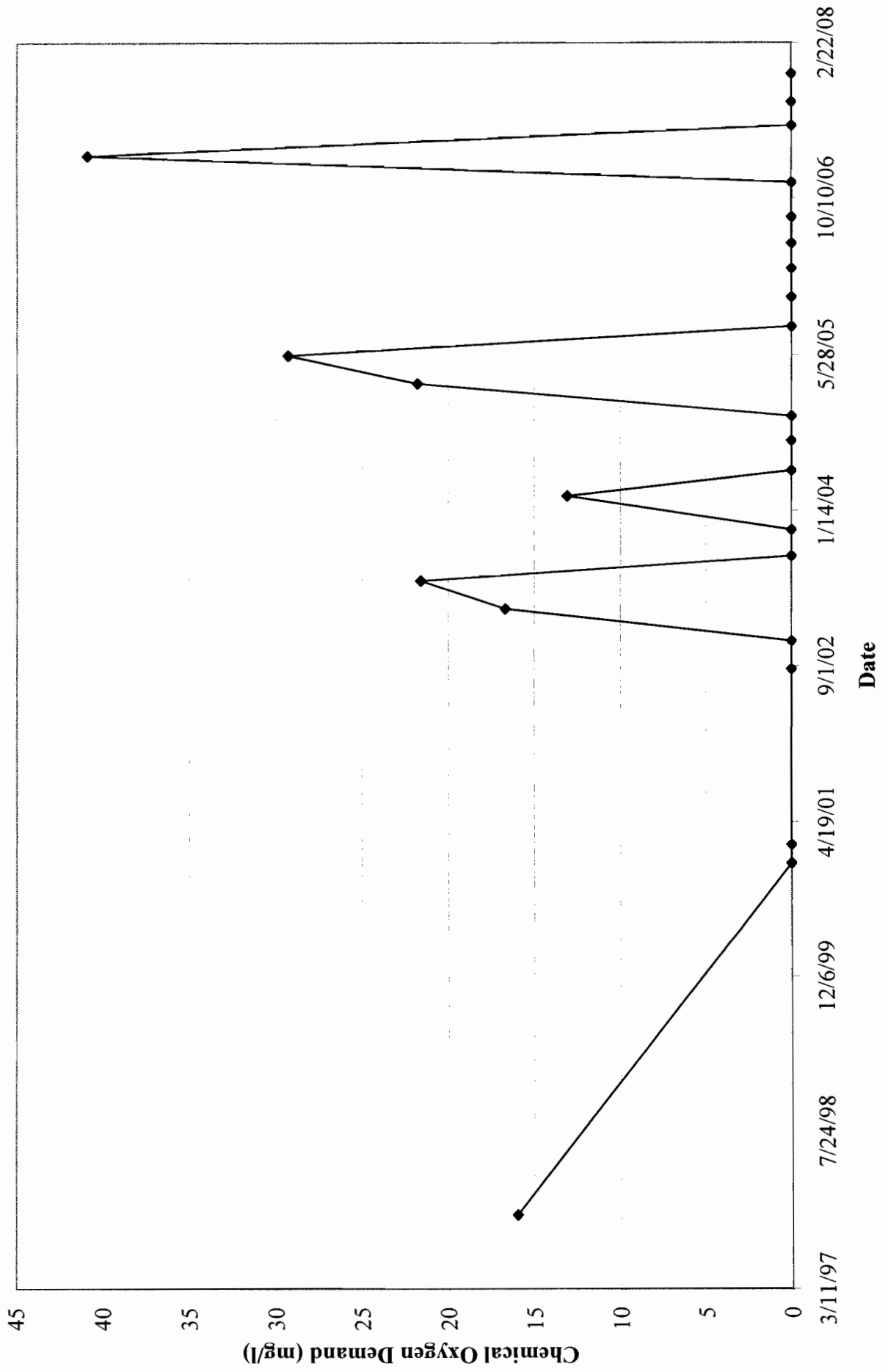
BIOCHEMICAL OXYGEN DEMAND IN MW-12S



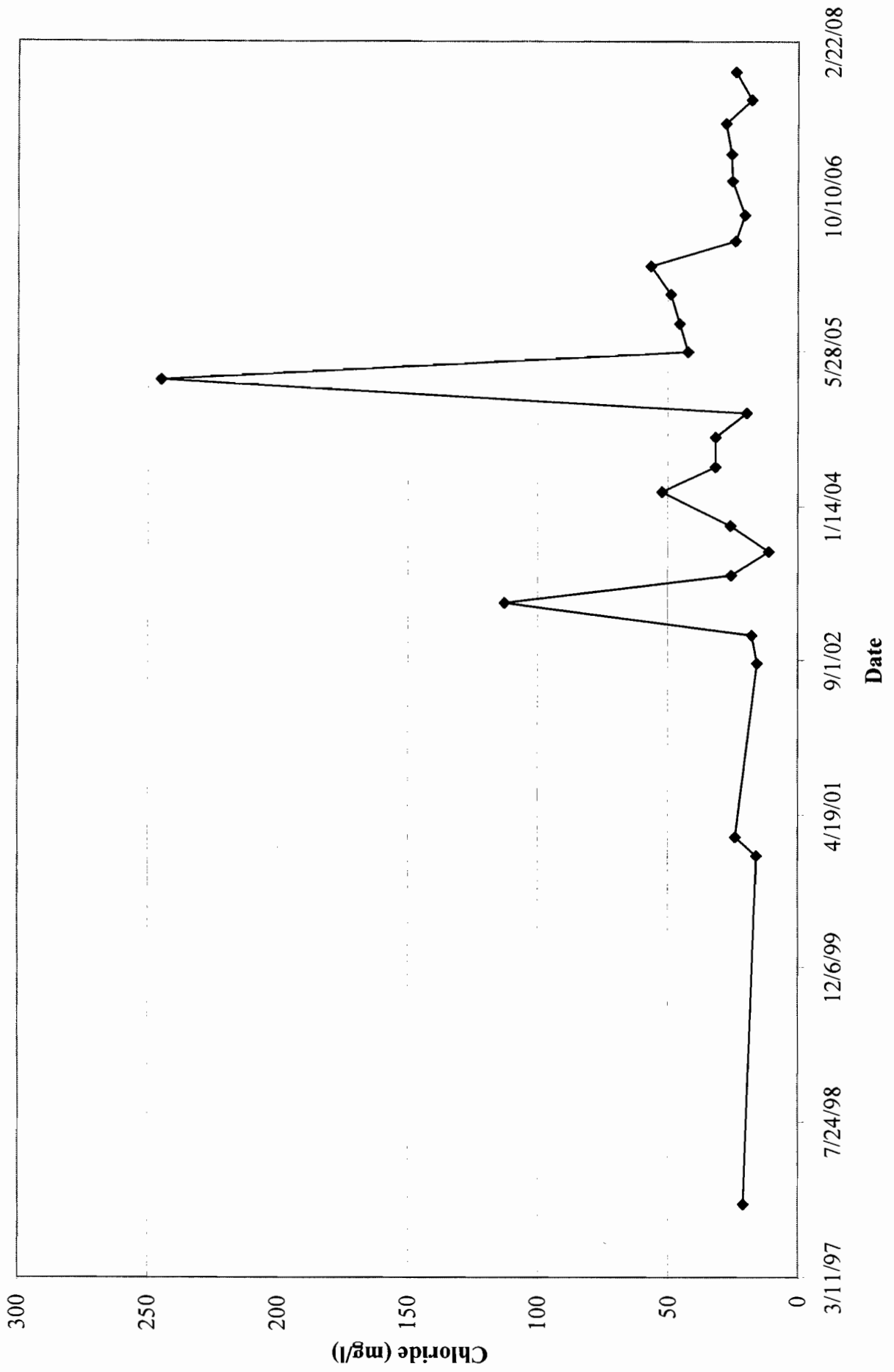
BROMIDE IN MW-12S



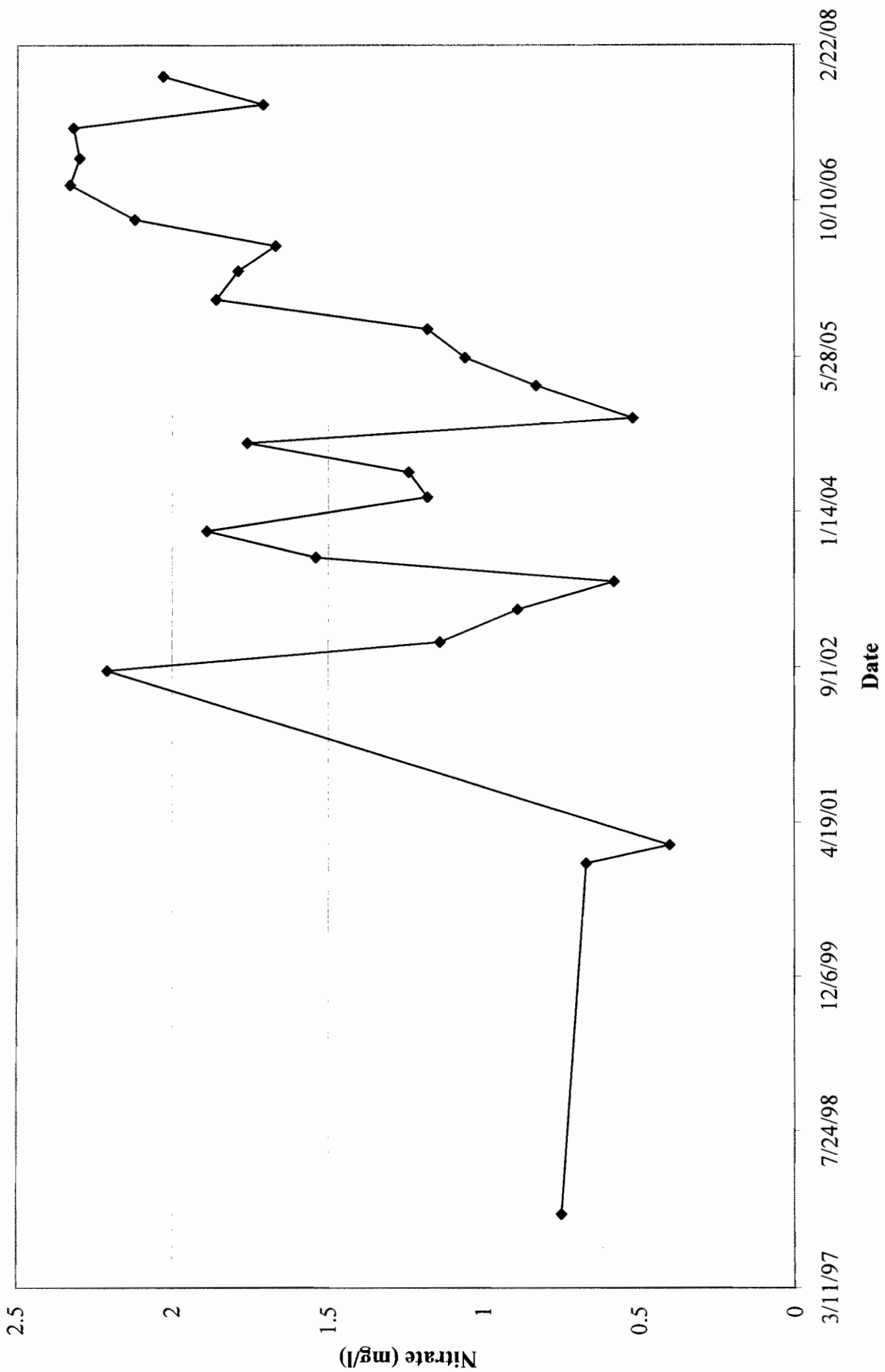
CHEMICAL OXYGEN DEMAND IN MW-12S



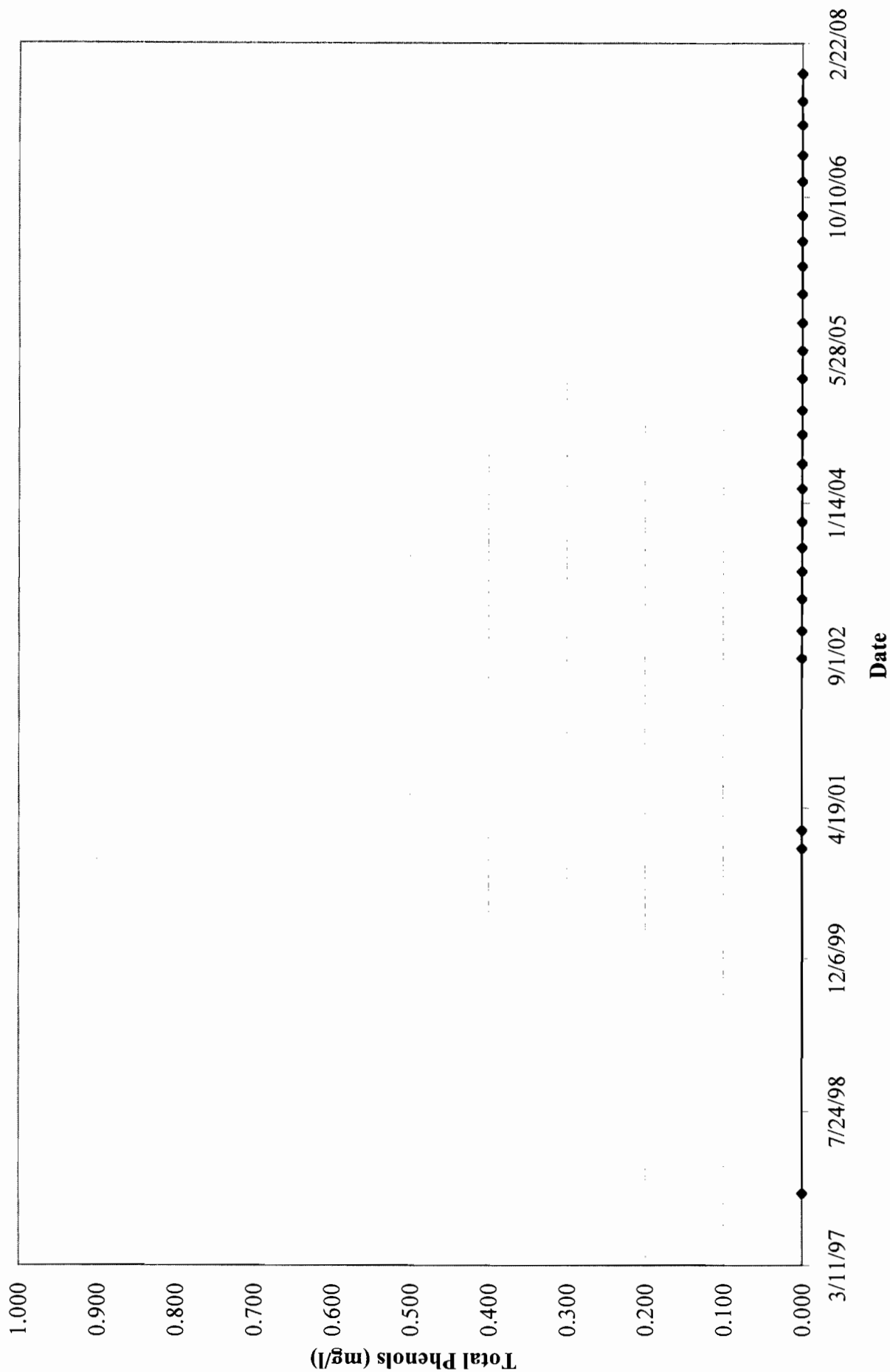
CHLORIDE IN MW-12S



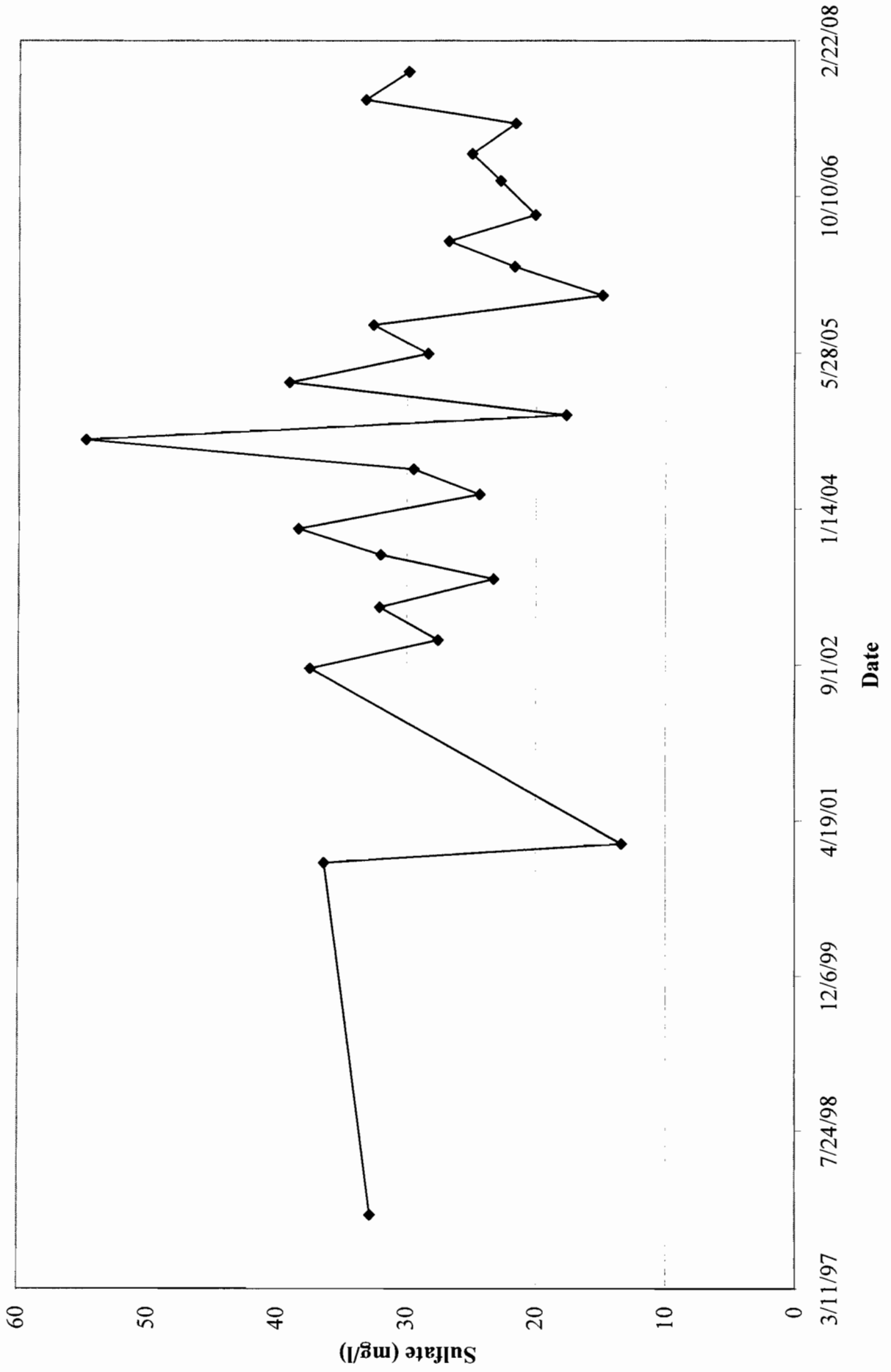
NITRATE IN MW-12S



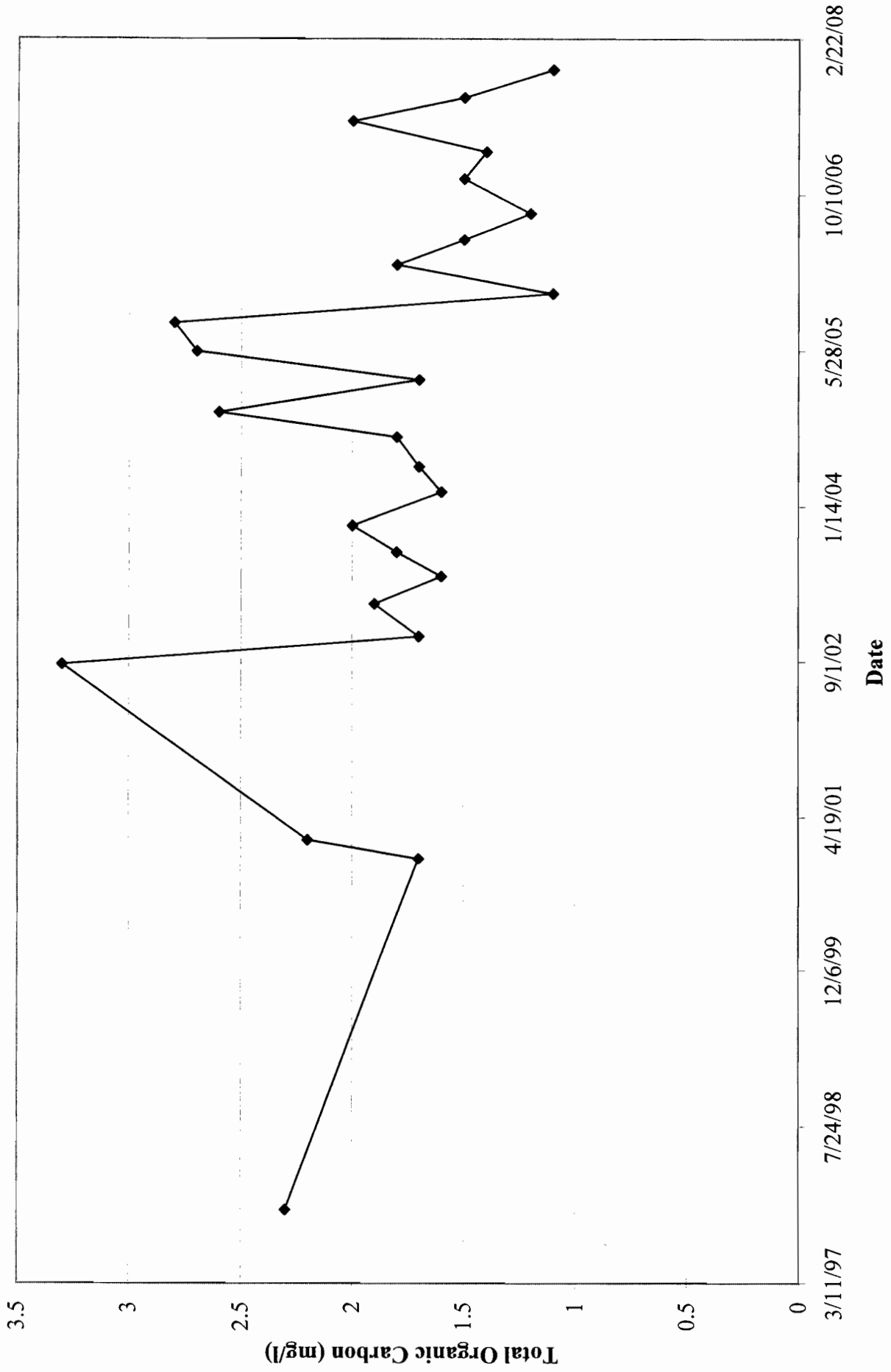
TOTAL PHENOLS IN MW-12S



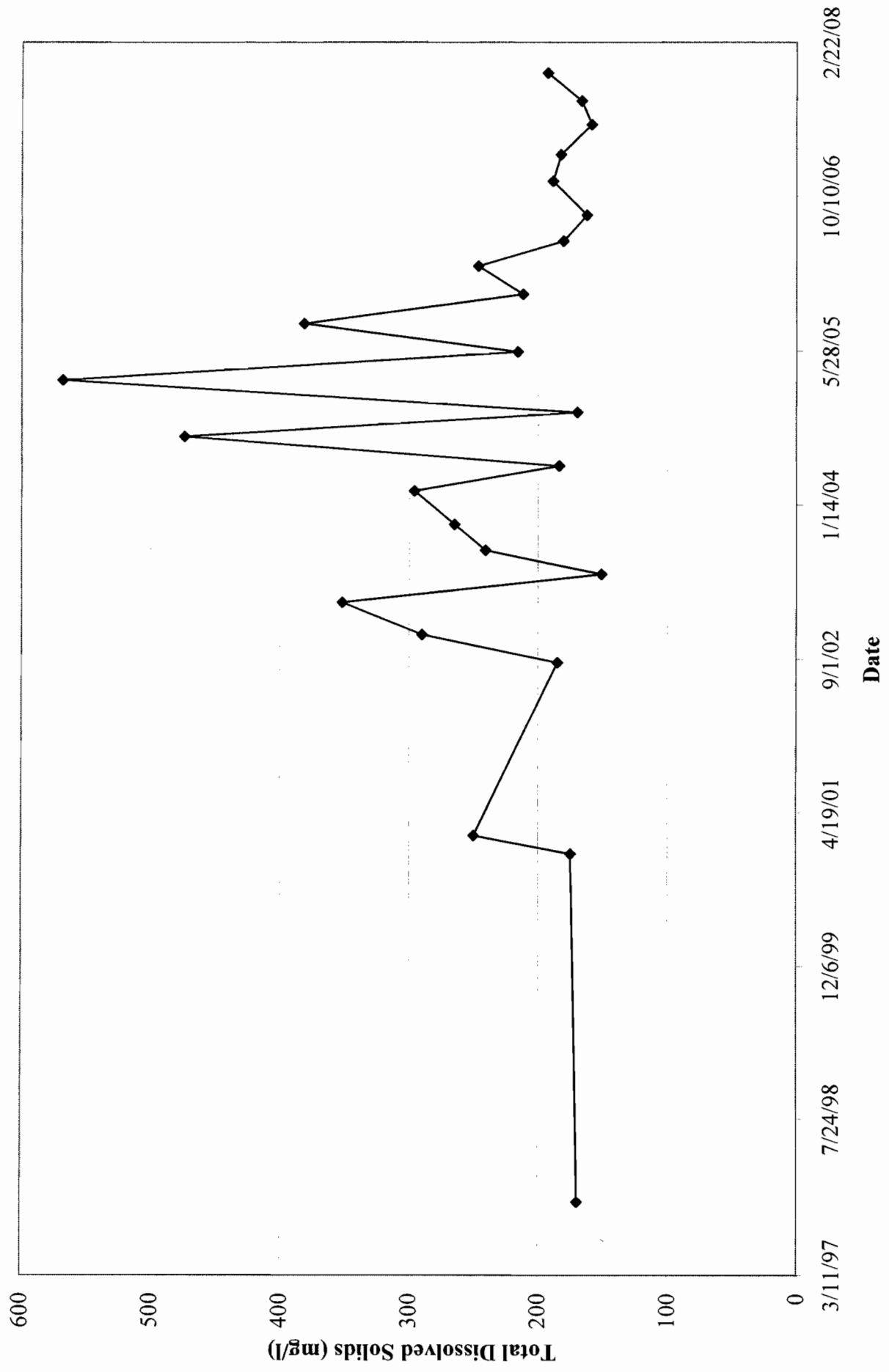
SULFATE IN MW-12S



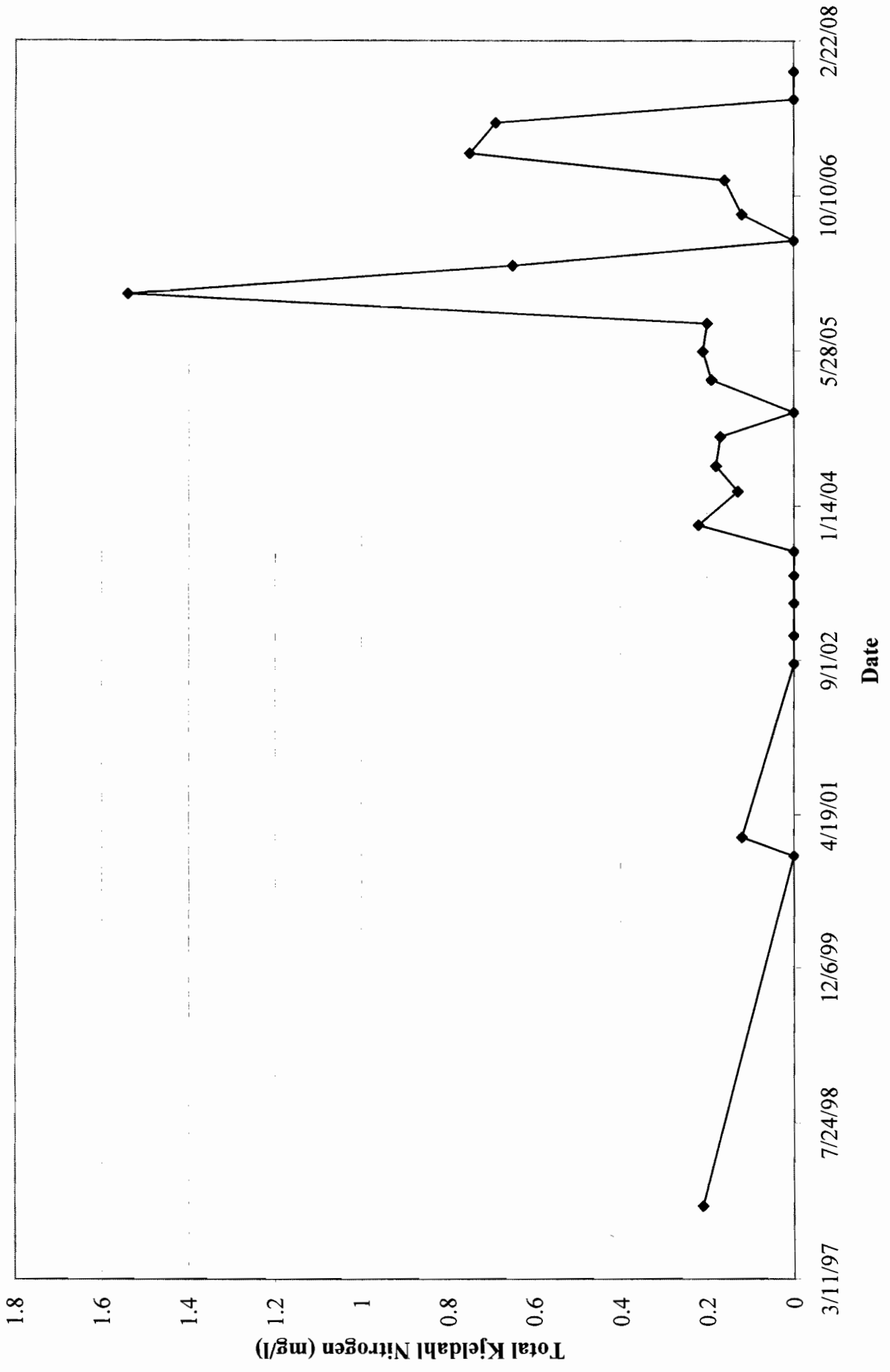
TOTAL ORGANIC CARBON IN MW-12S



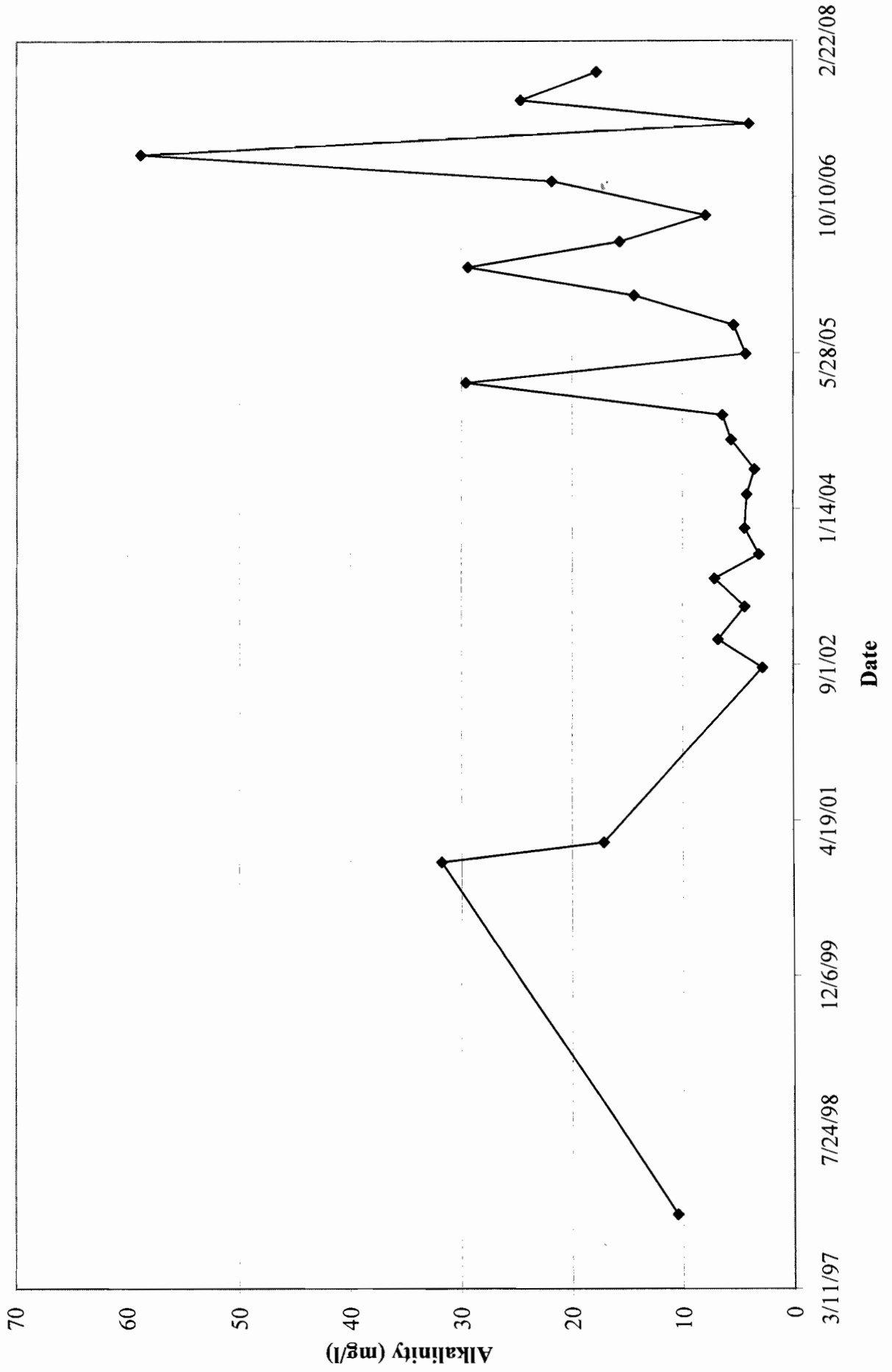
TOTAL DISSOLVED SOLIDS IN MW-12S



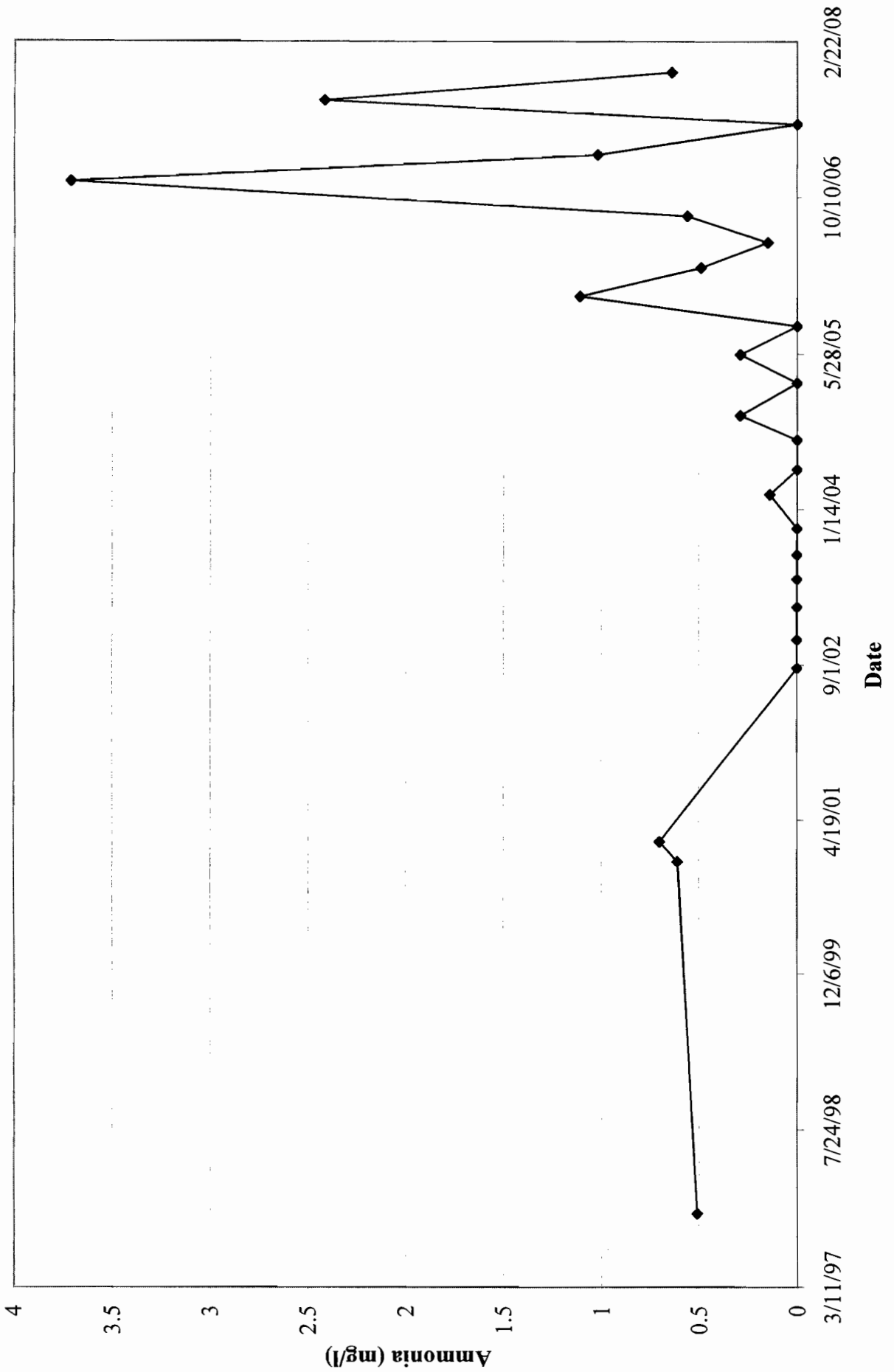
TOTAL KJELDAHL NITROGEN IN MW-12S



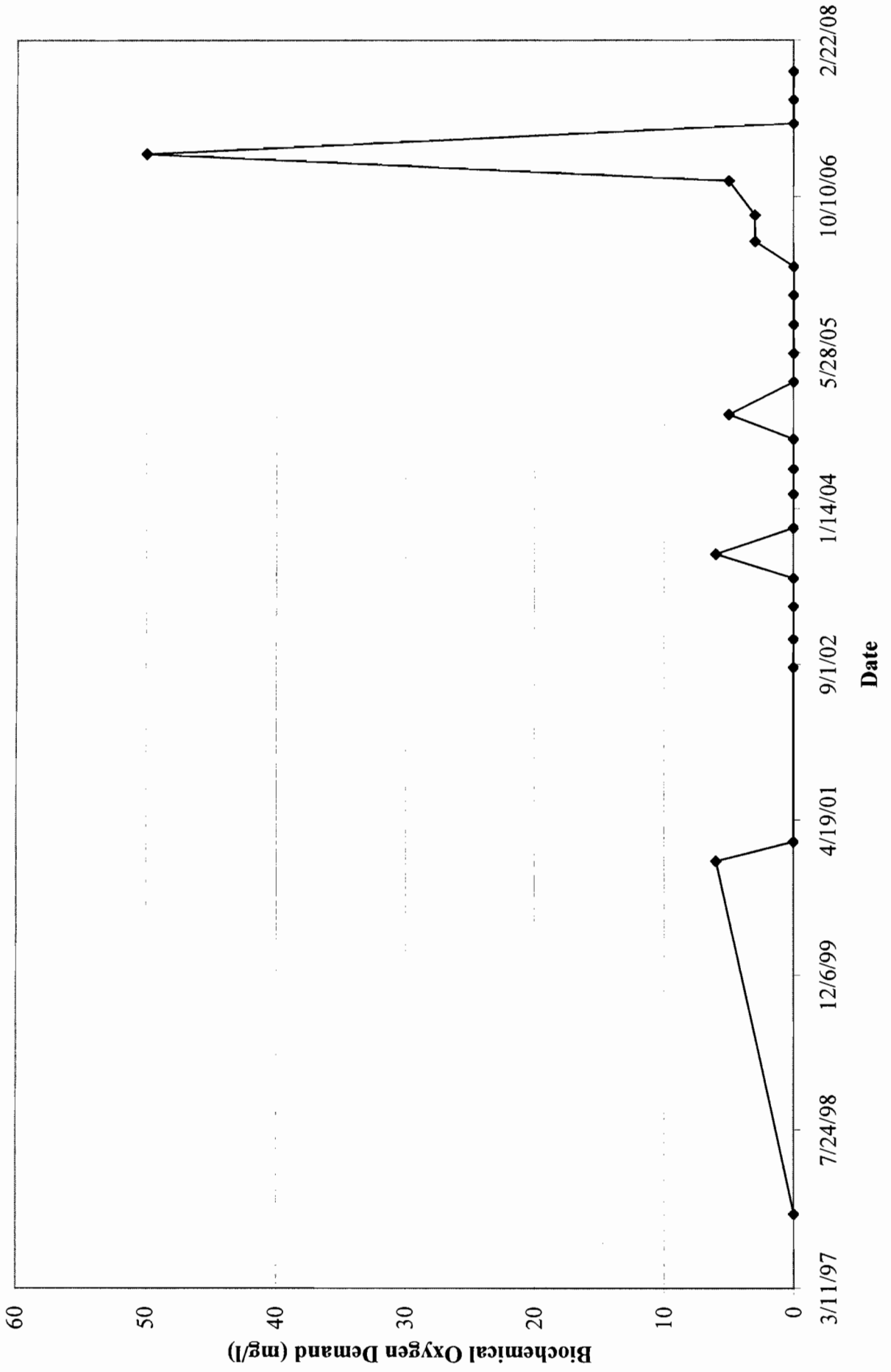
ALKALINITY IN MW-12I



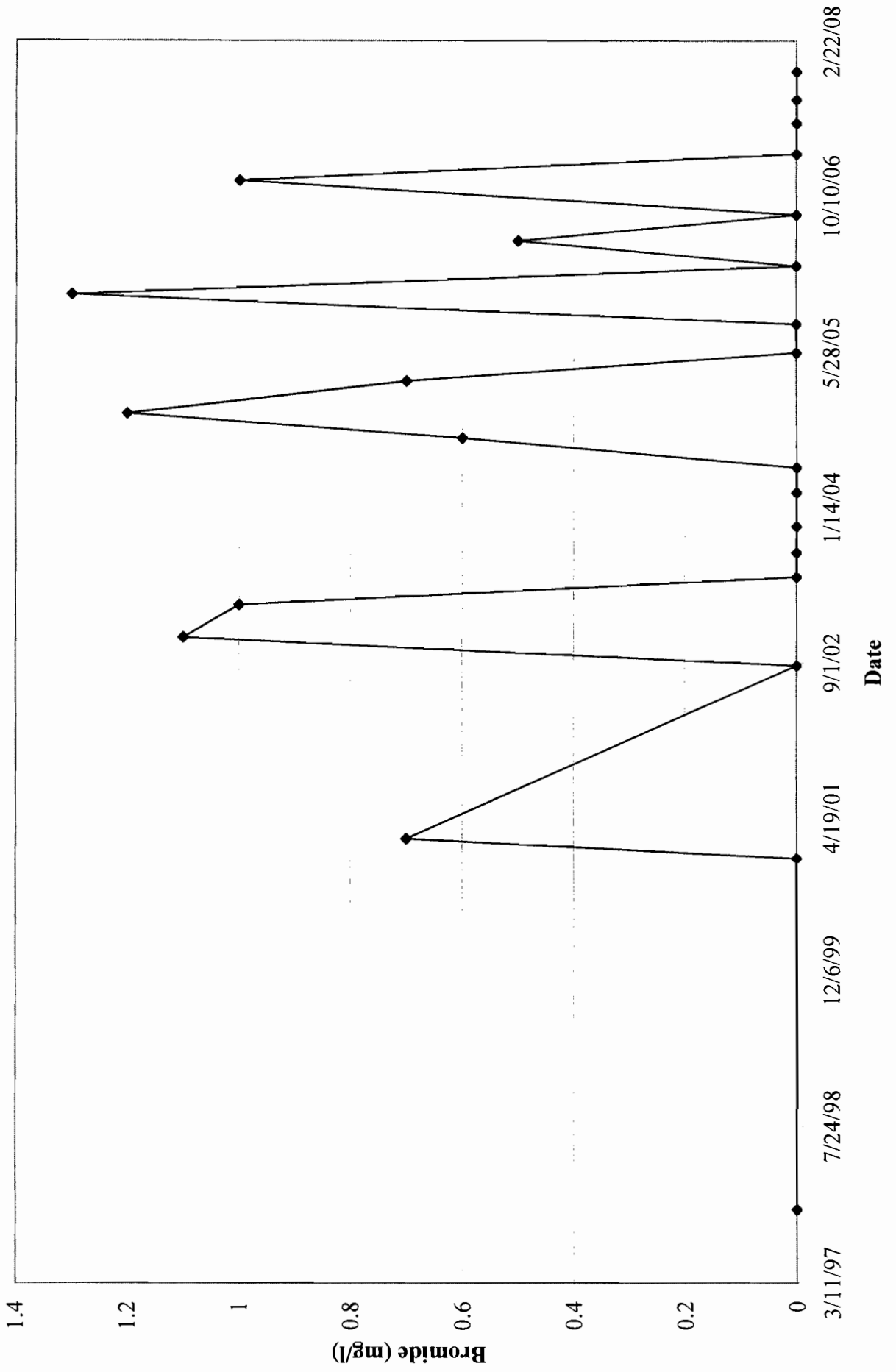
AMMONIA IN MW-12I



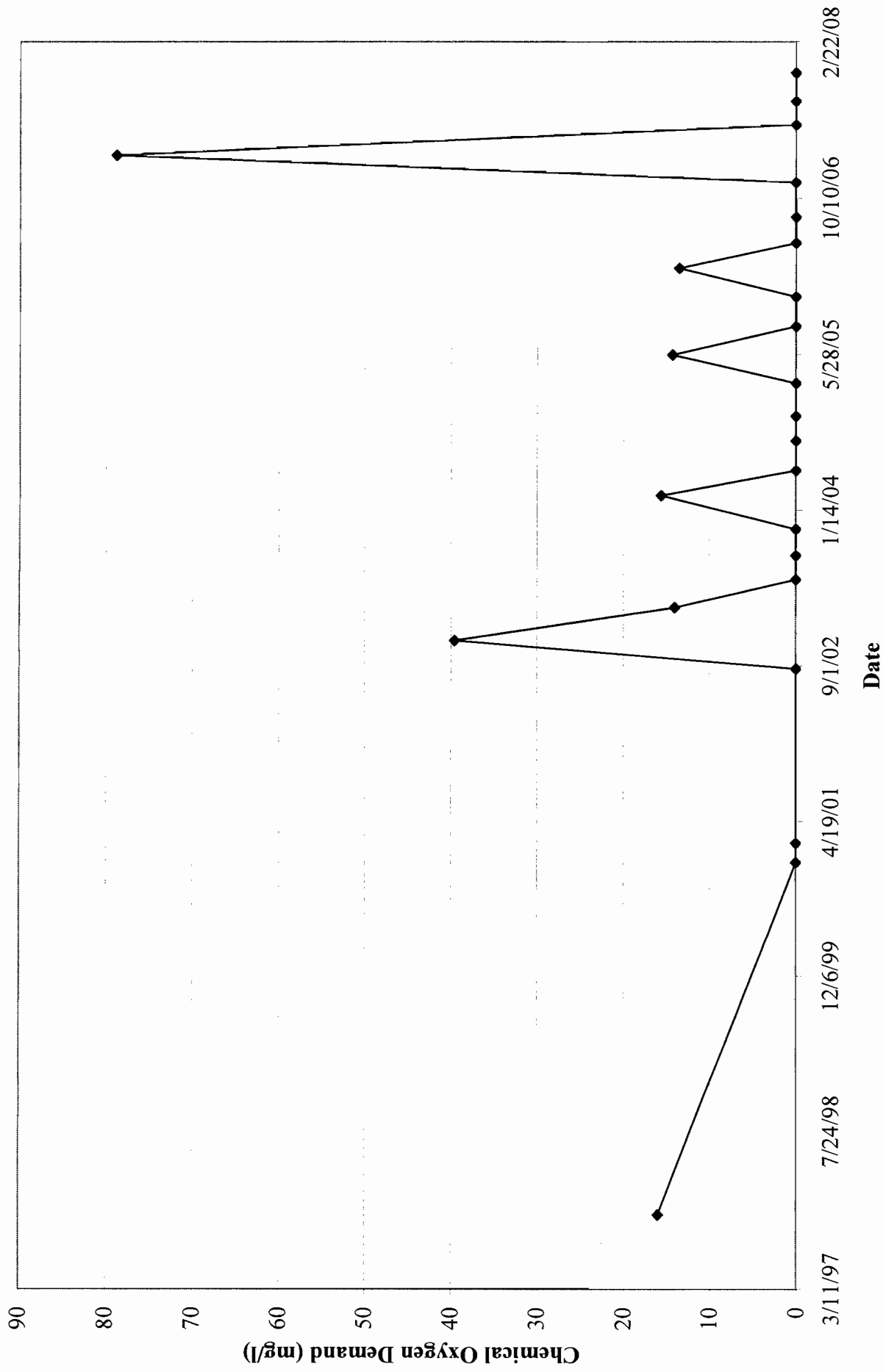
BIOCHEMICAL OXYGEN DEMAND IN MW-12I



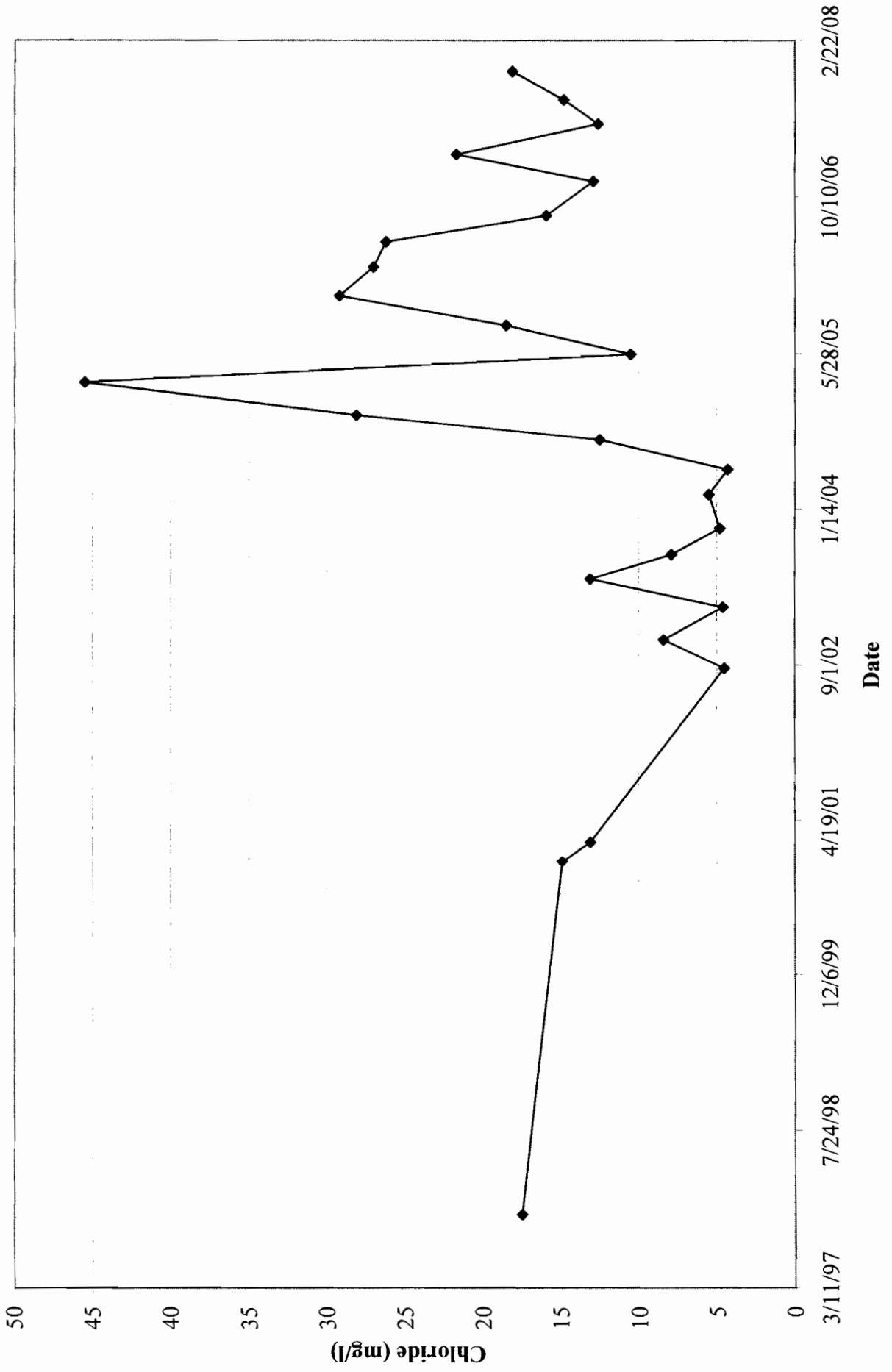
BROMIDE IN MW-12I



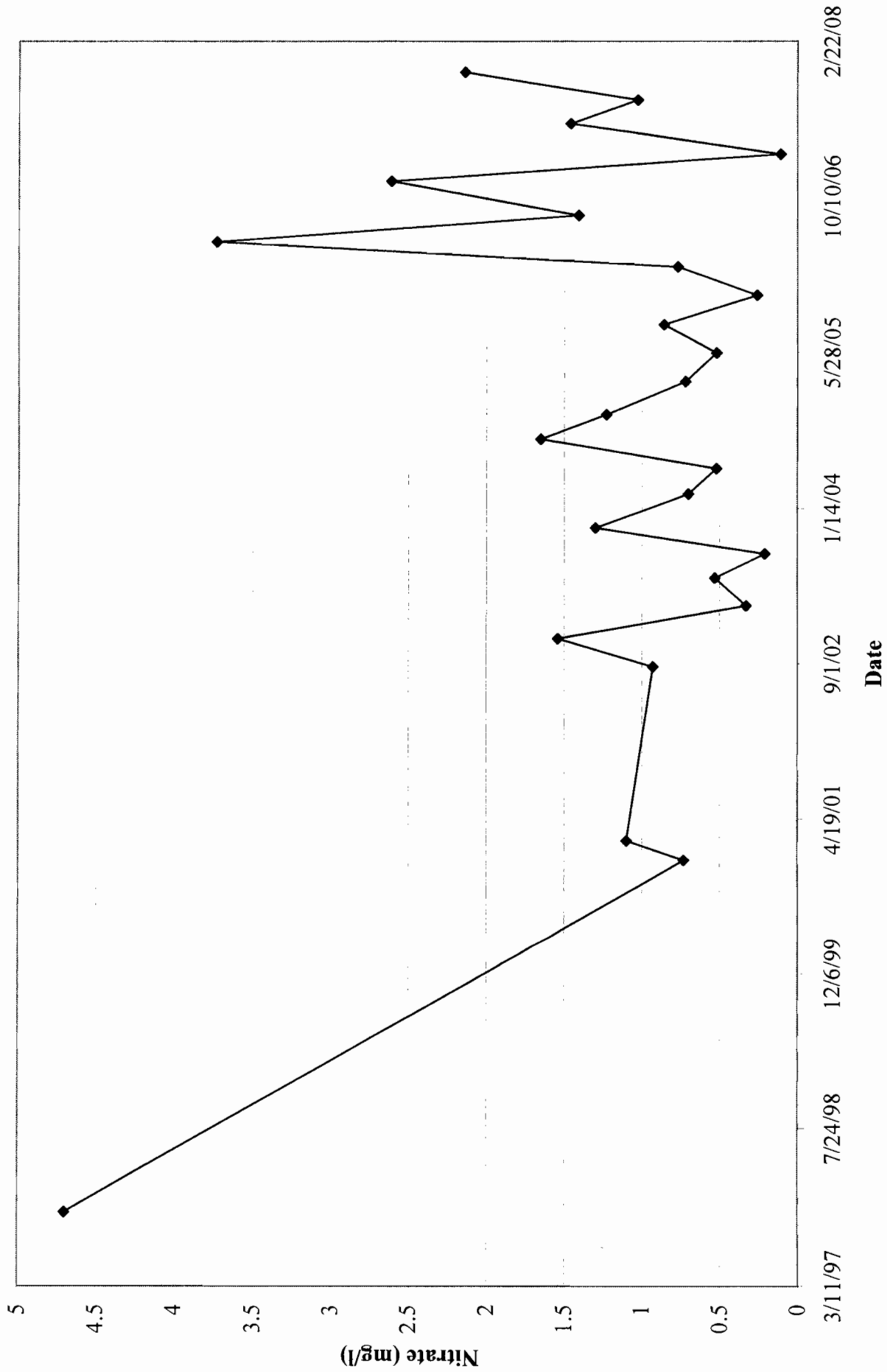
CHEMICAL OXYGEN DEMAND IN MW-12I



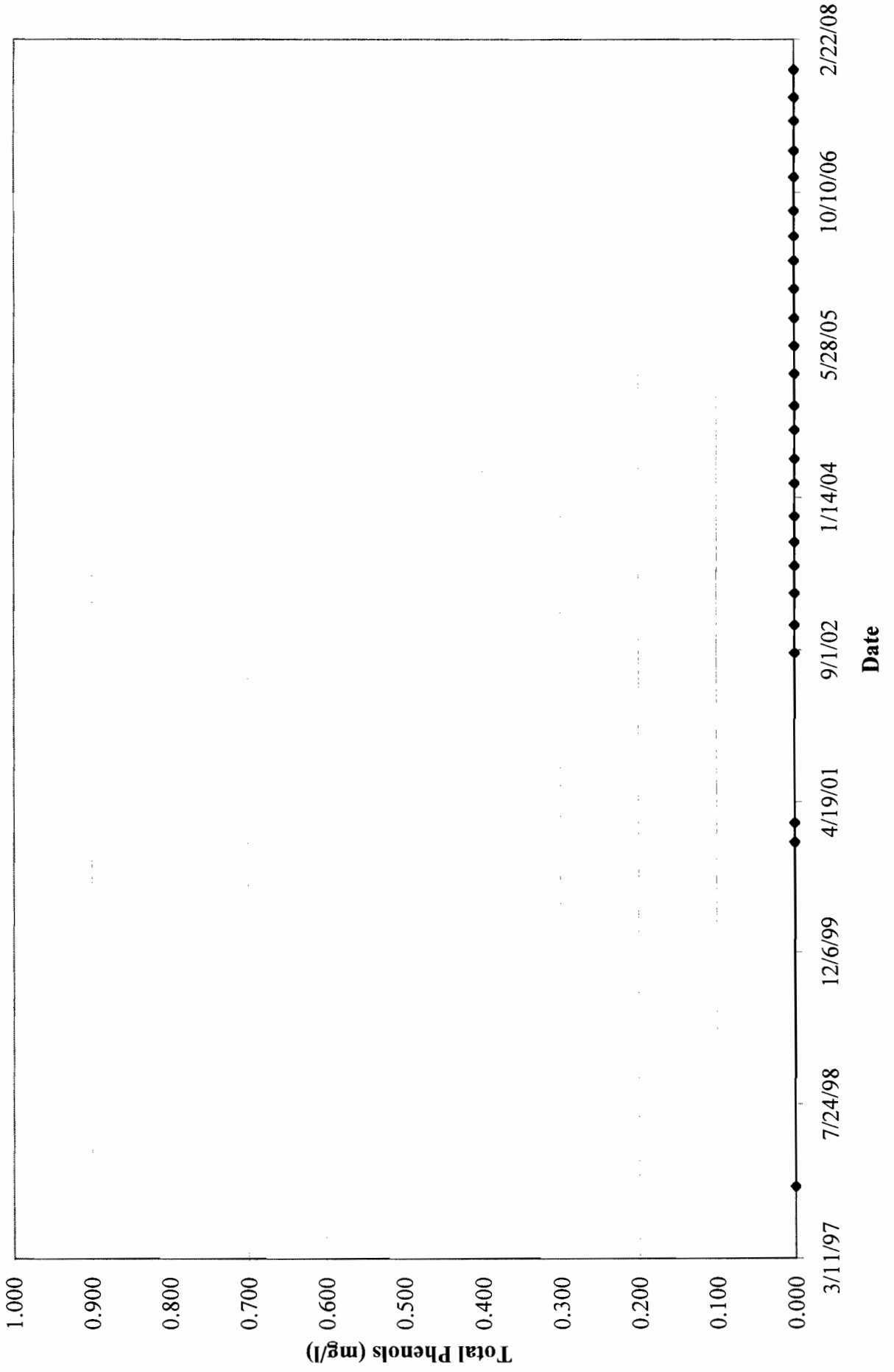
CHLORIDE IN MW-12I



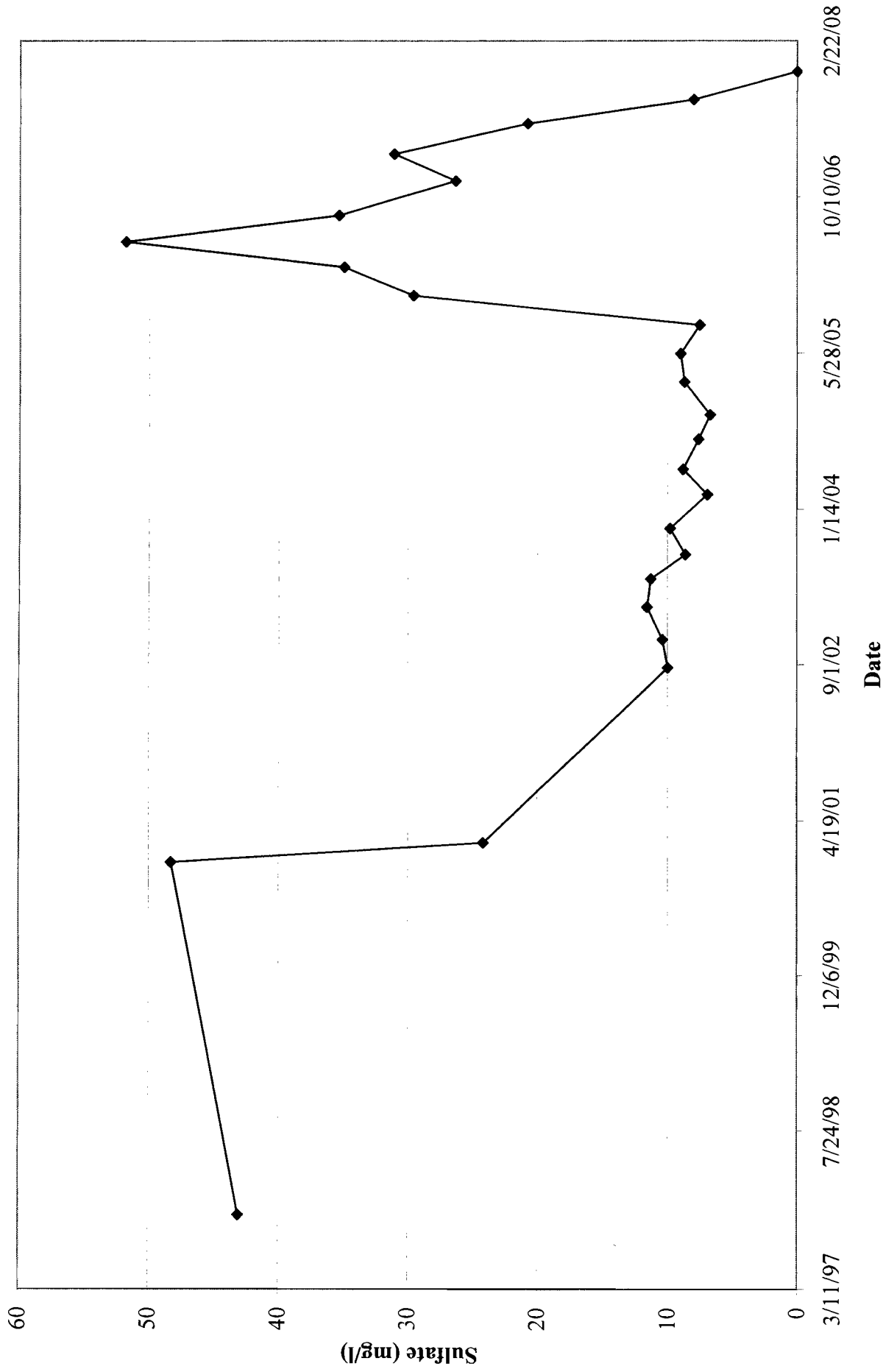
NITRATE IN MW-12I



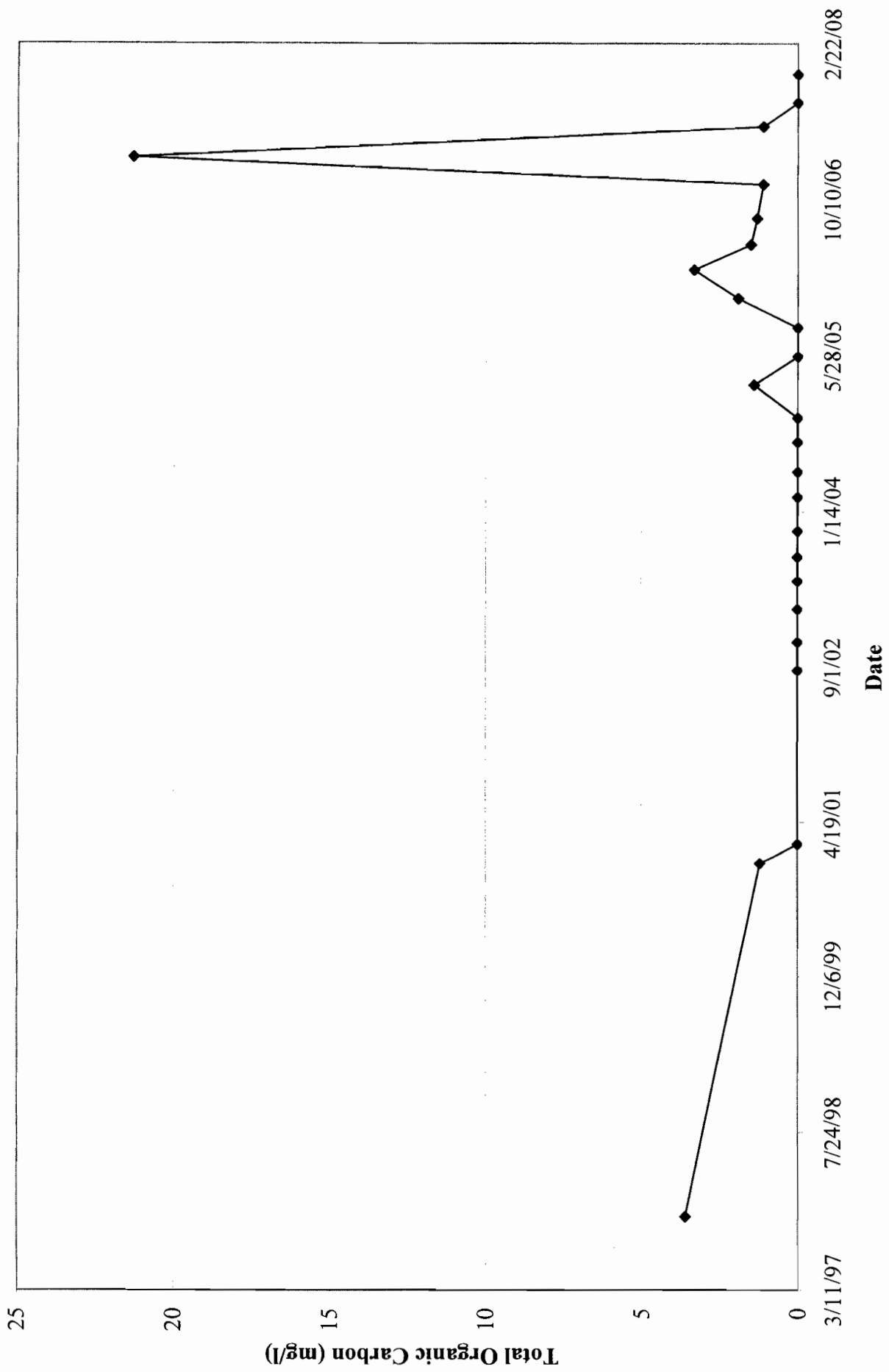
TOTAL PHENOLS IN MW-12I



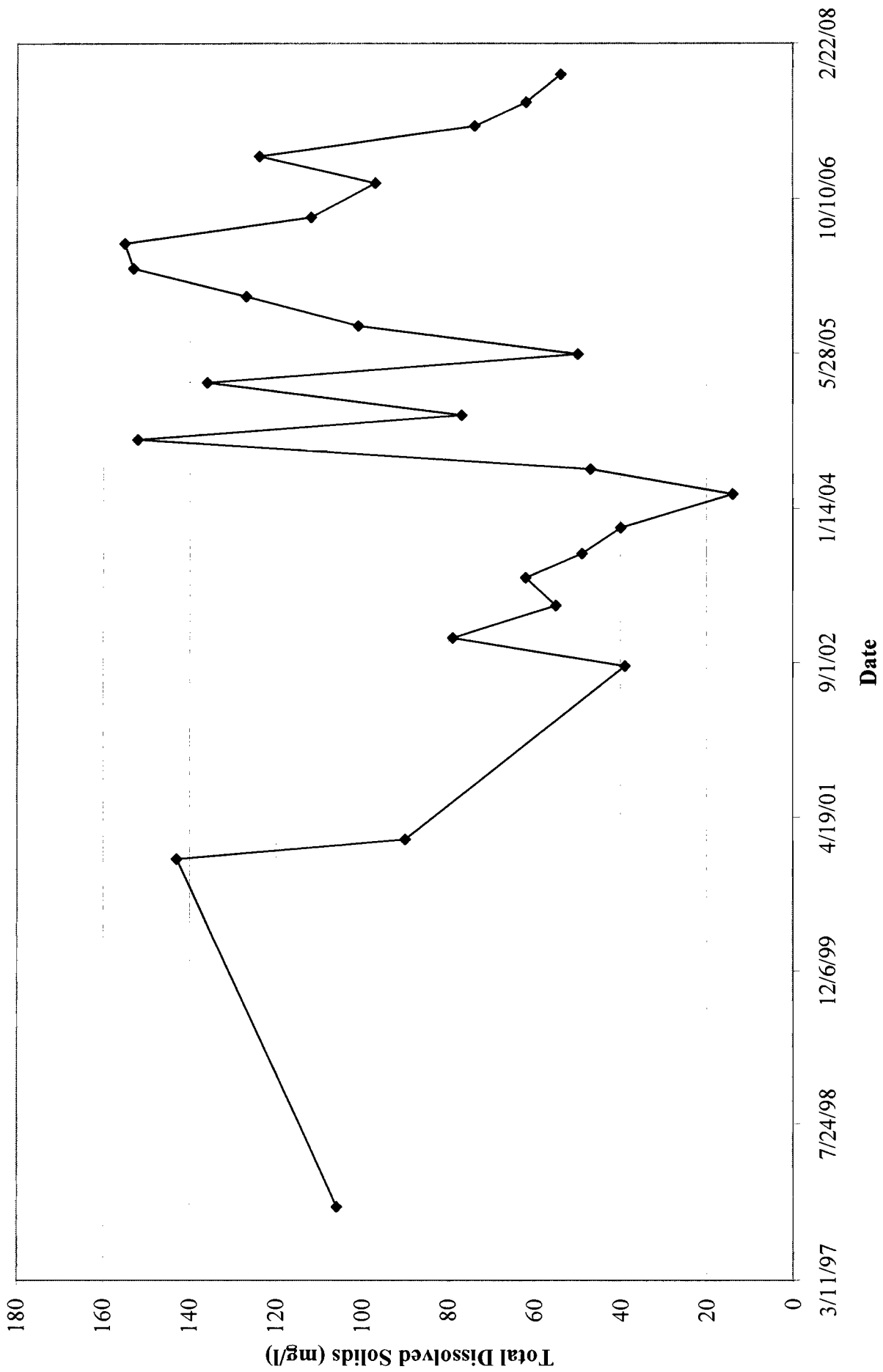
SULFATE IN MW-12I



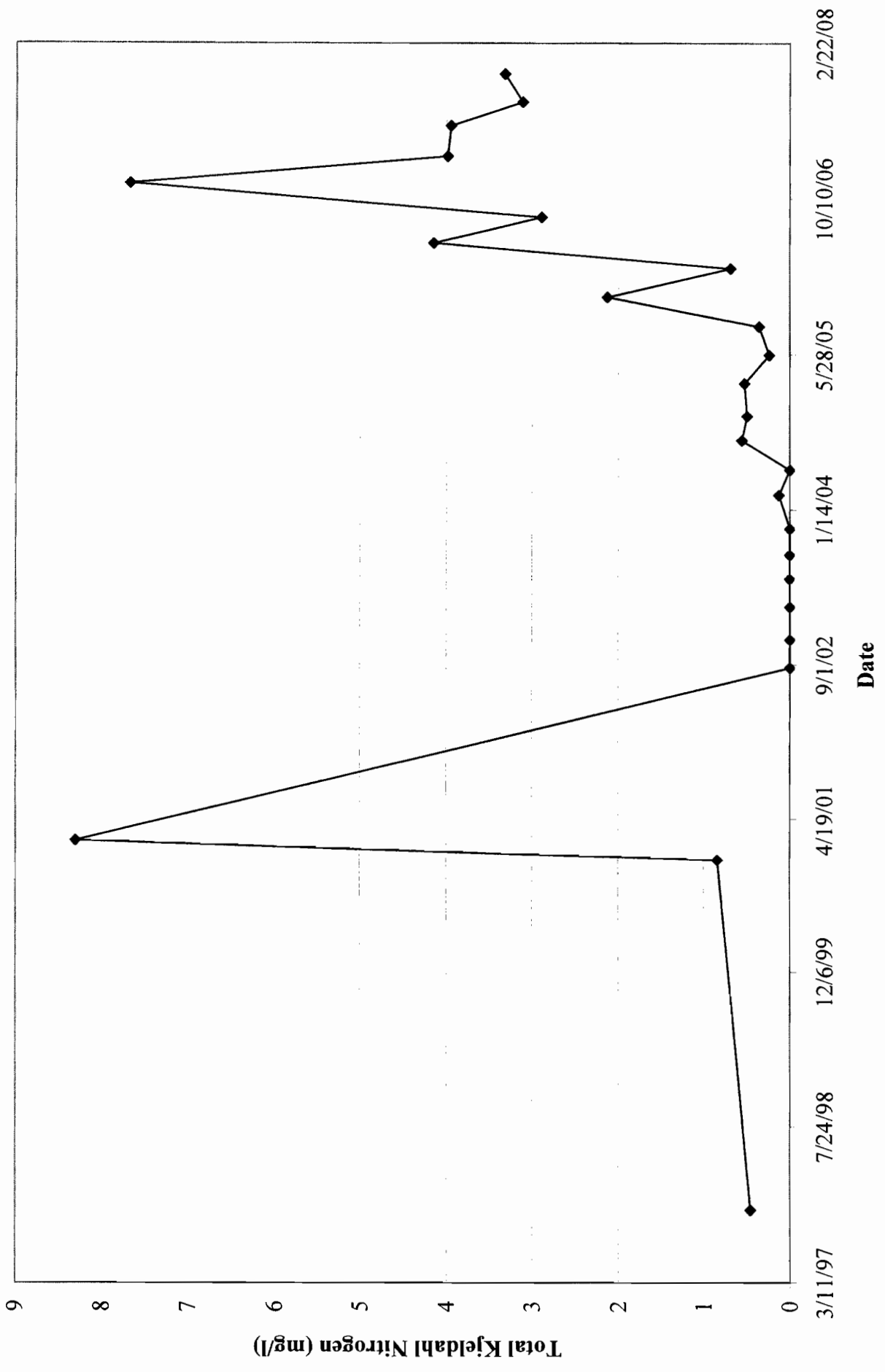
TOTAL ORGANIC CARBON IN MW-12H



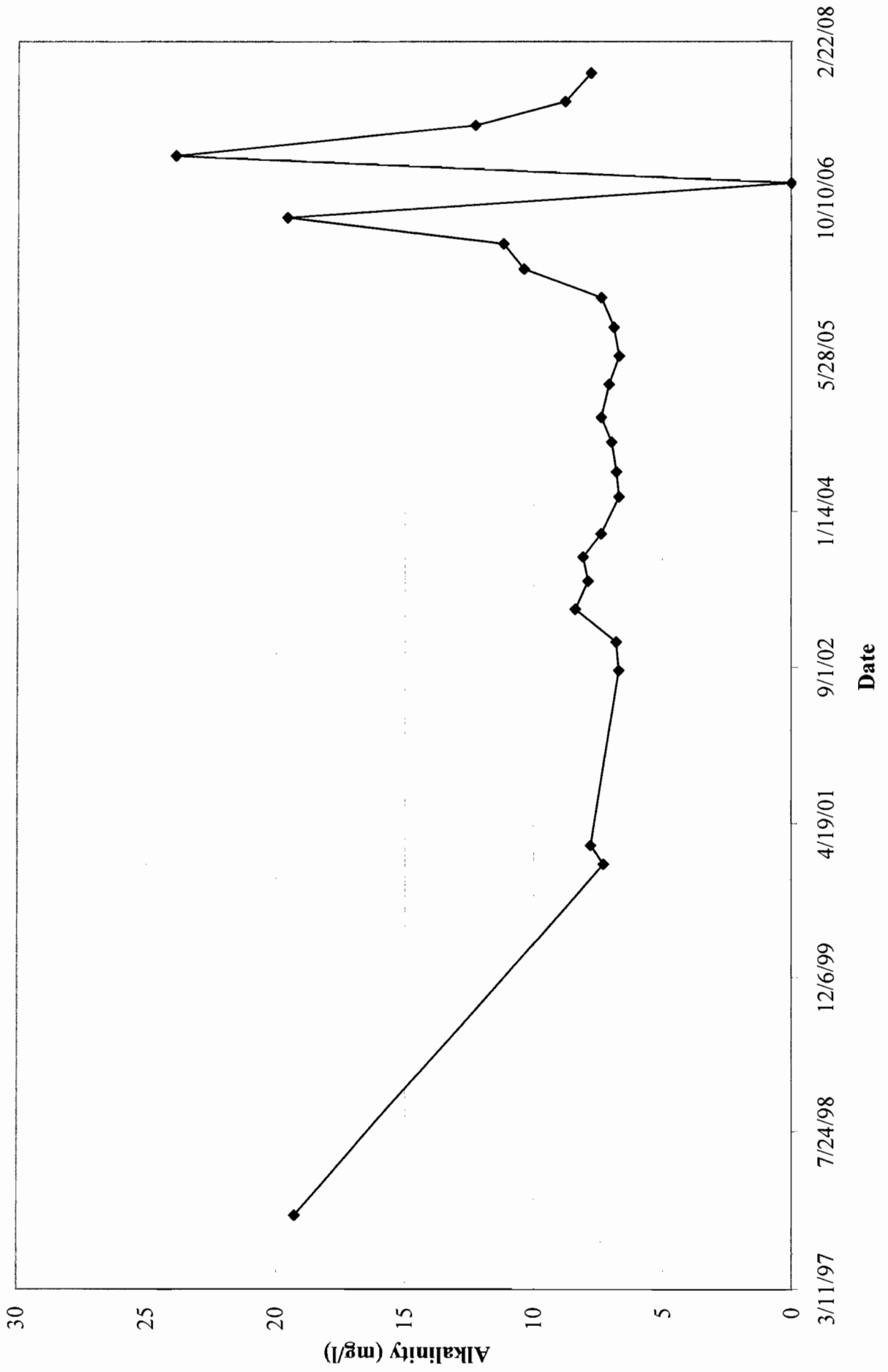
TOTAL DISSOLVED SOLIDS IN MW-12I



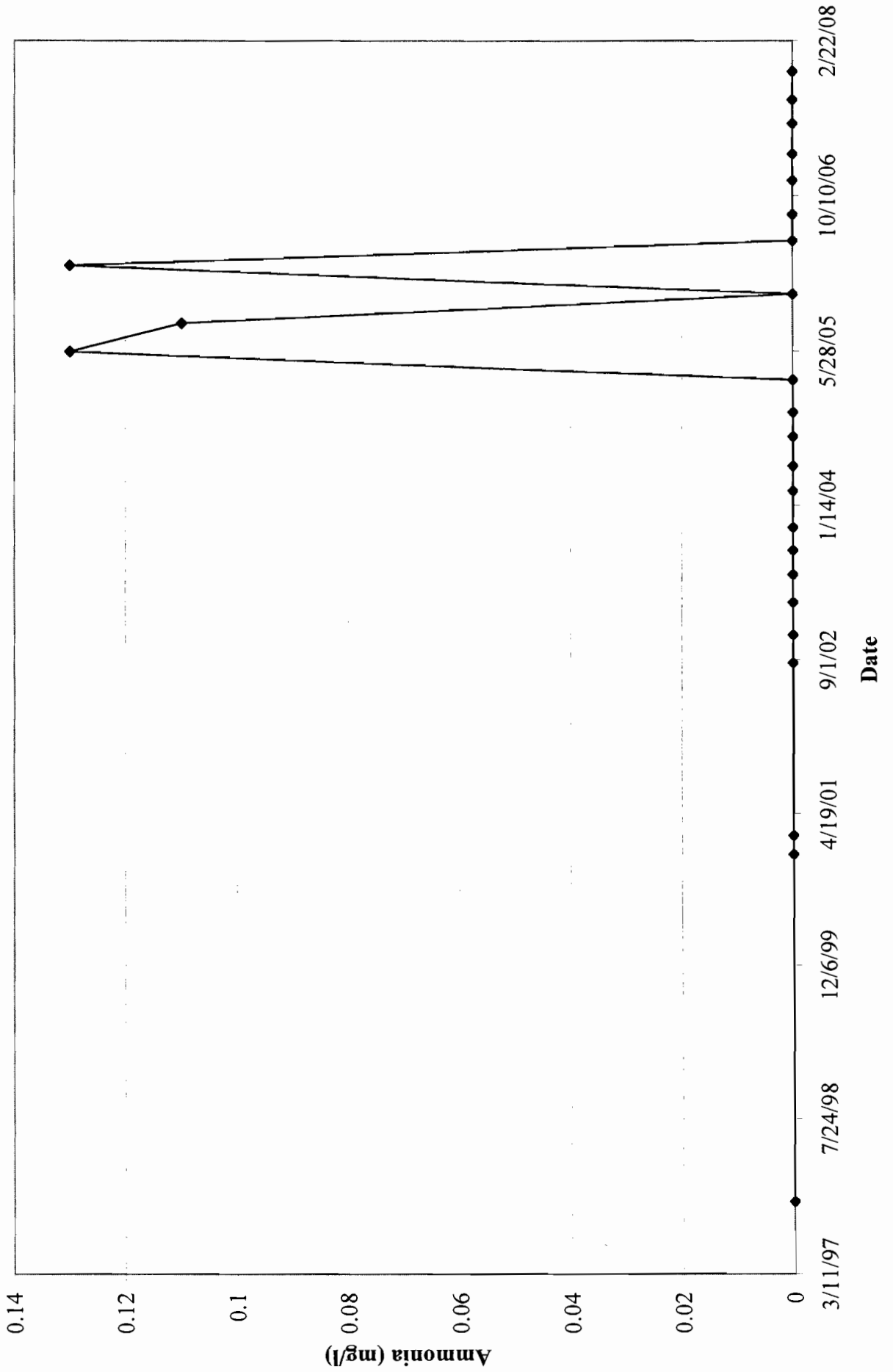
TOTAL KJELDAHL NITROGEN IN MW-12I



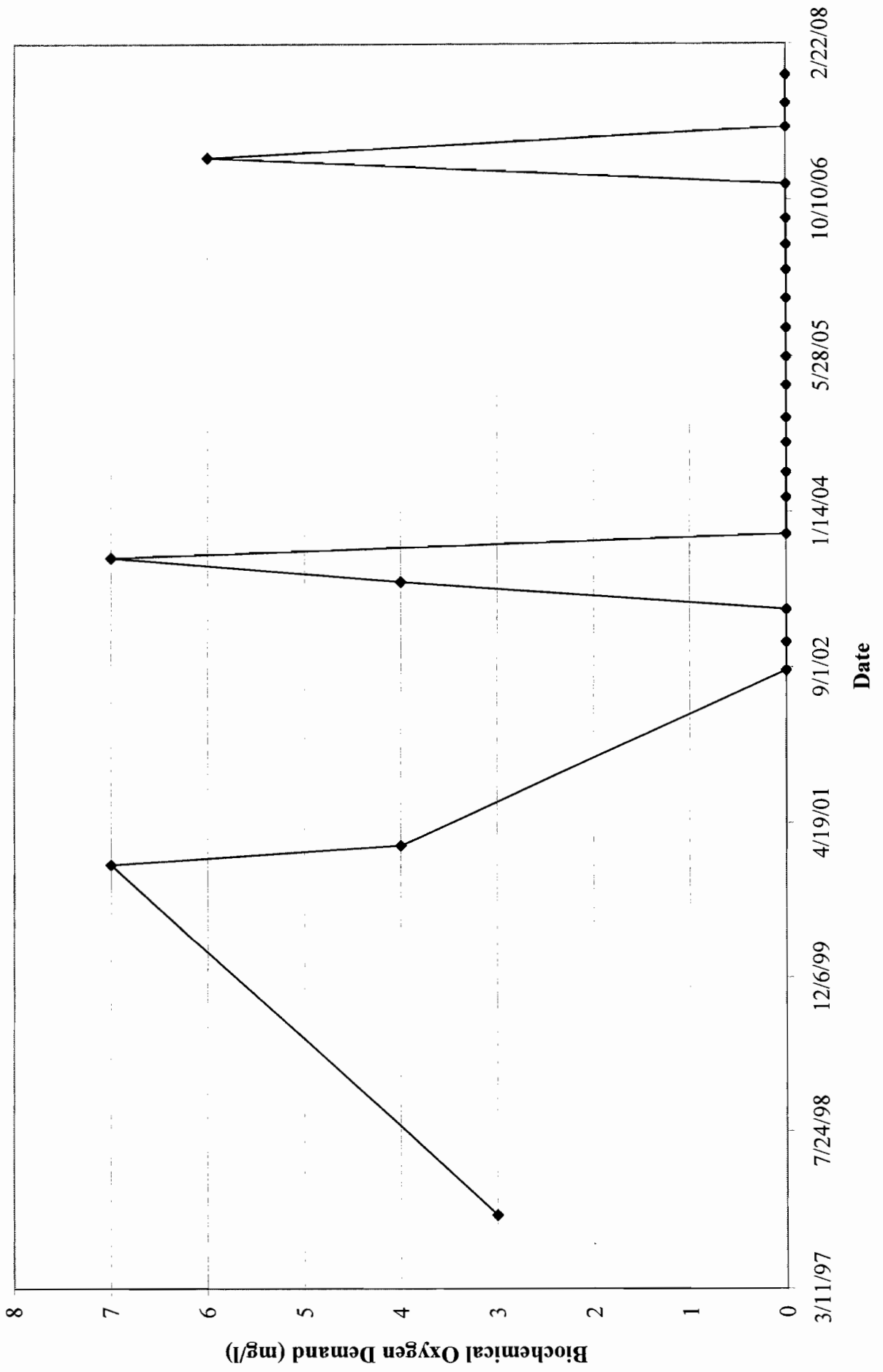
ALKALINITY IN MW-12D



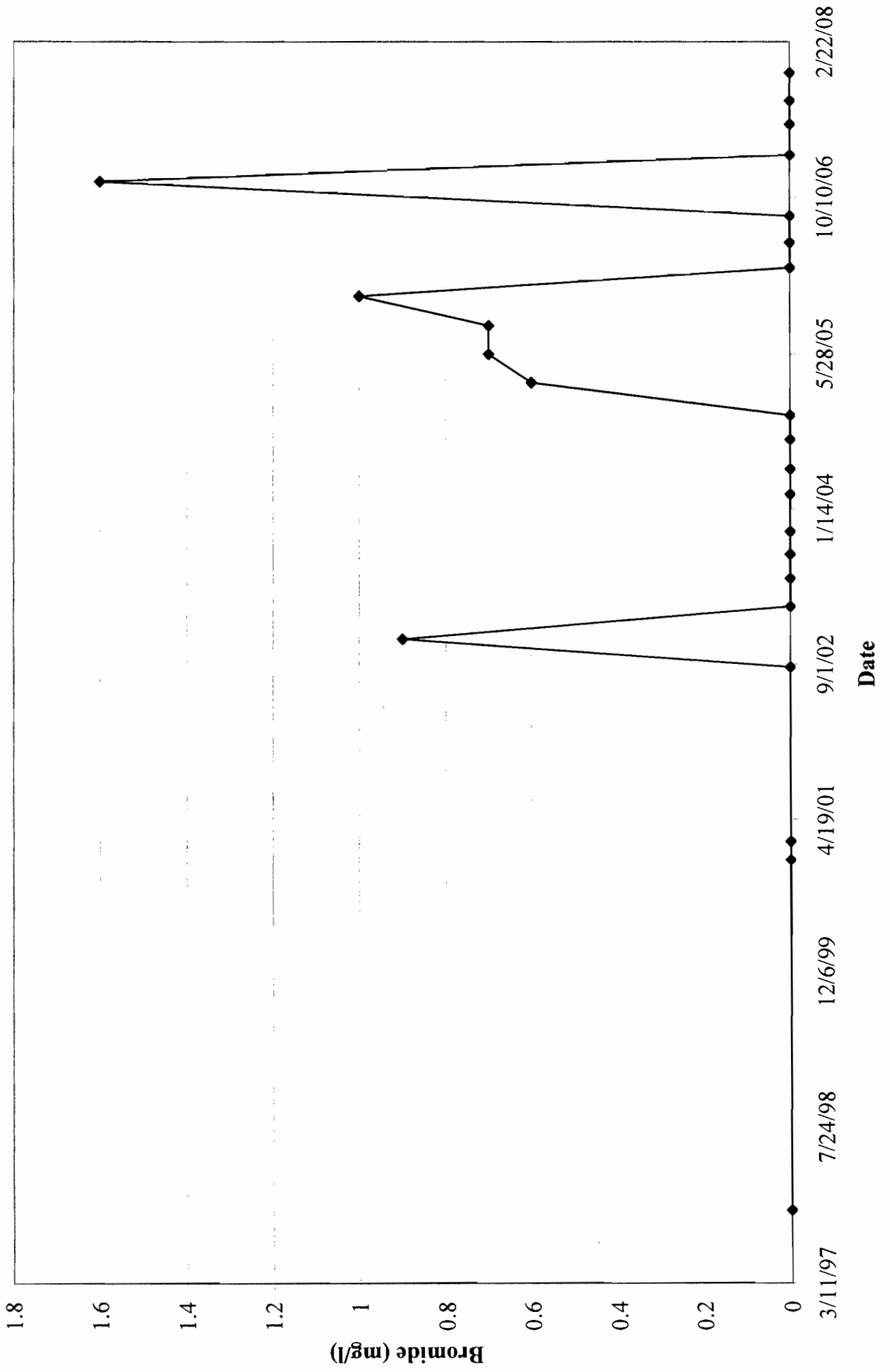
AMMONIA IN MW-12D



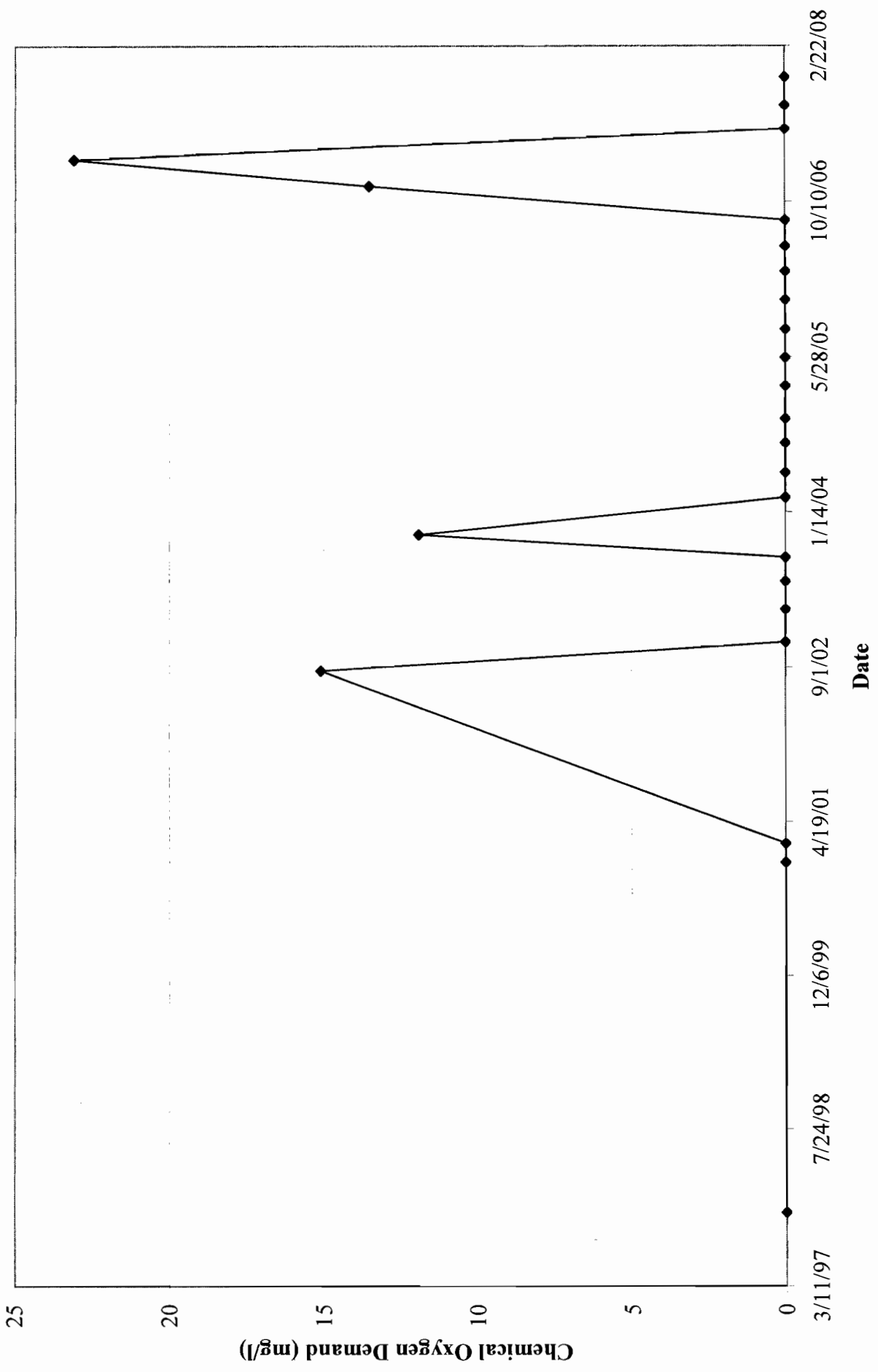
BIOCHEMICAL OXYGEN DEMAND IN MW-12D



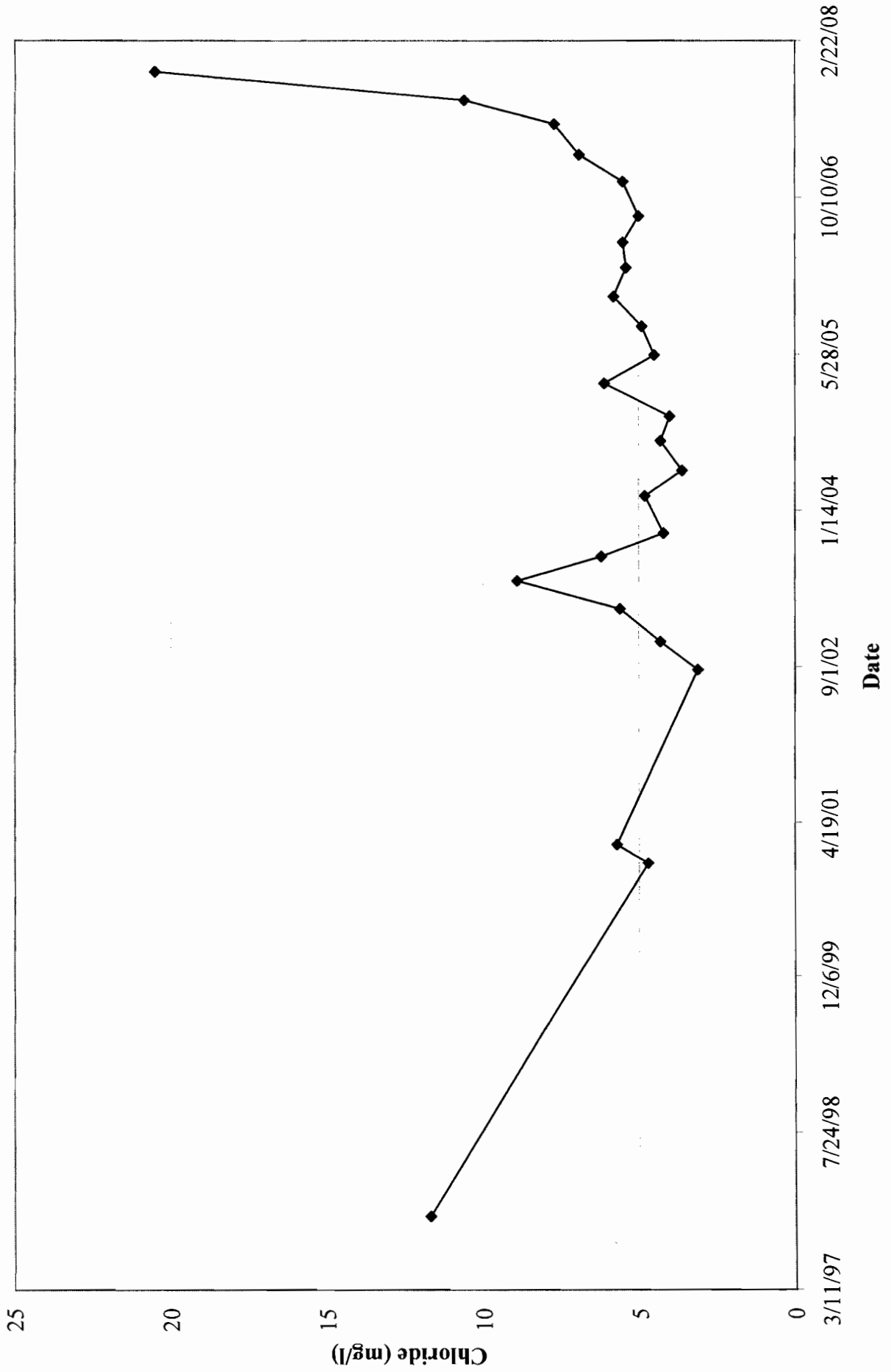
BROMIDE IN MW-12D



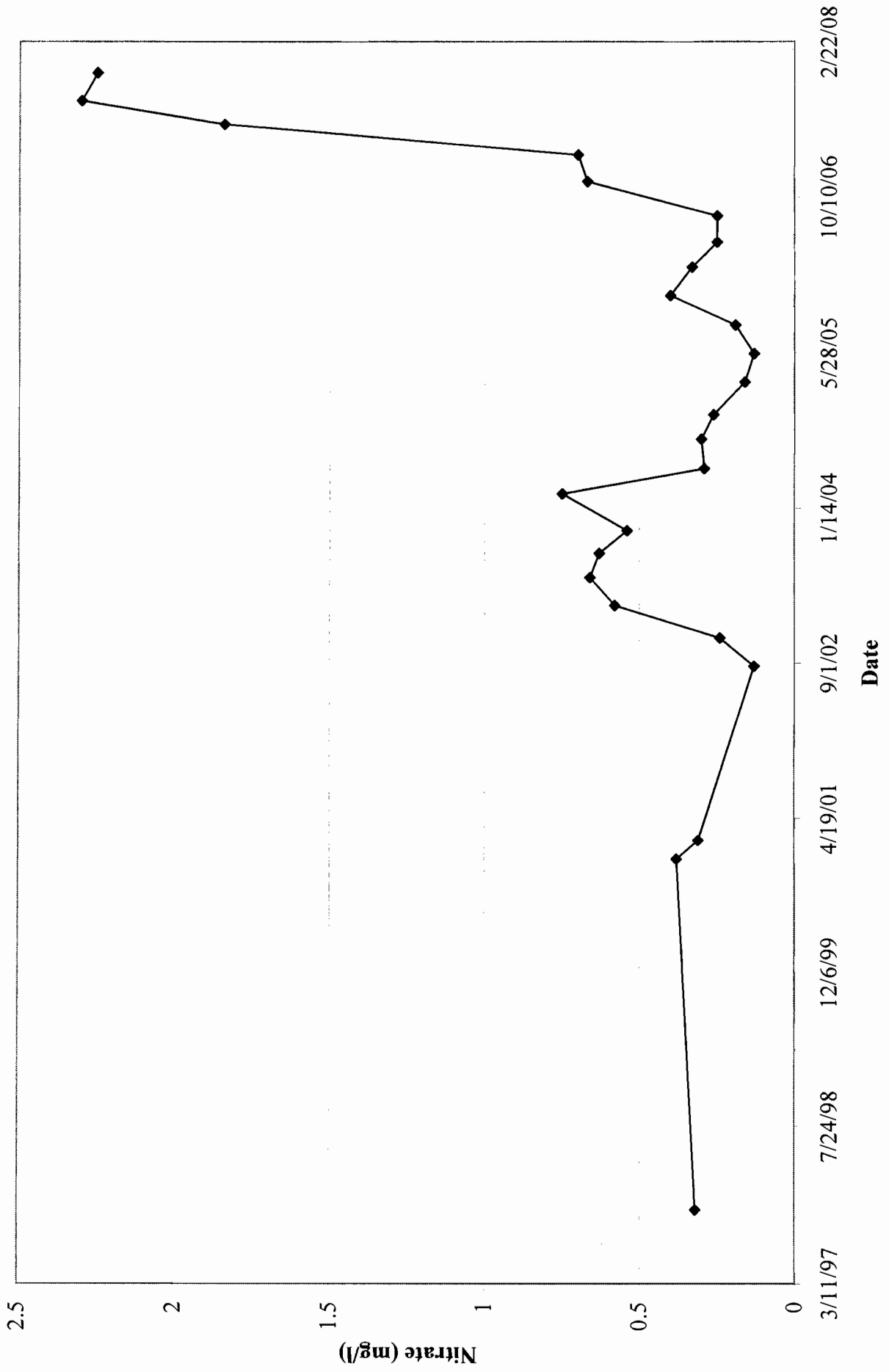
CHEMICAL OXYGEN DEMAND IN MW-12D



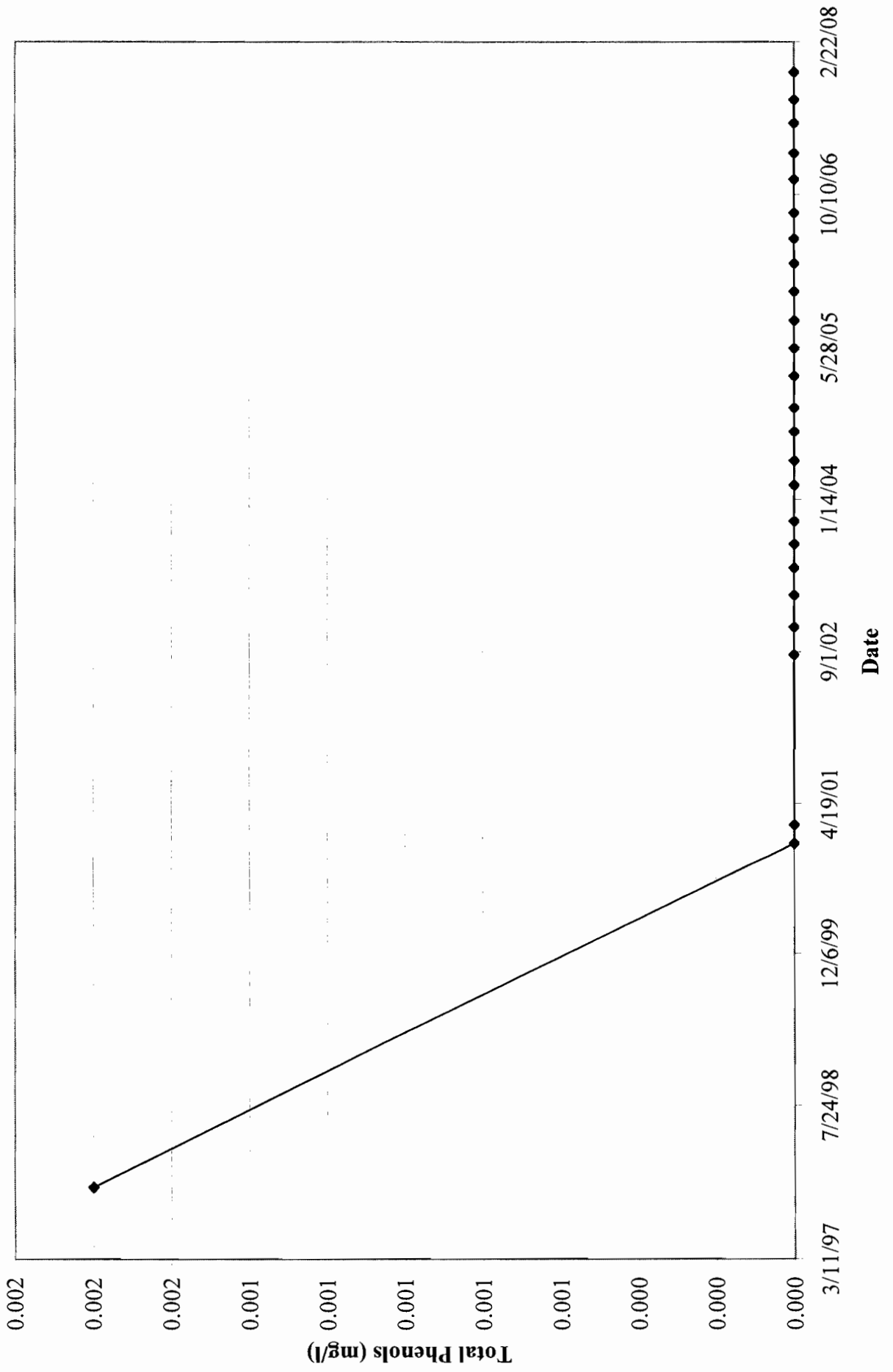
CHLORIDE IN MW-12D



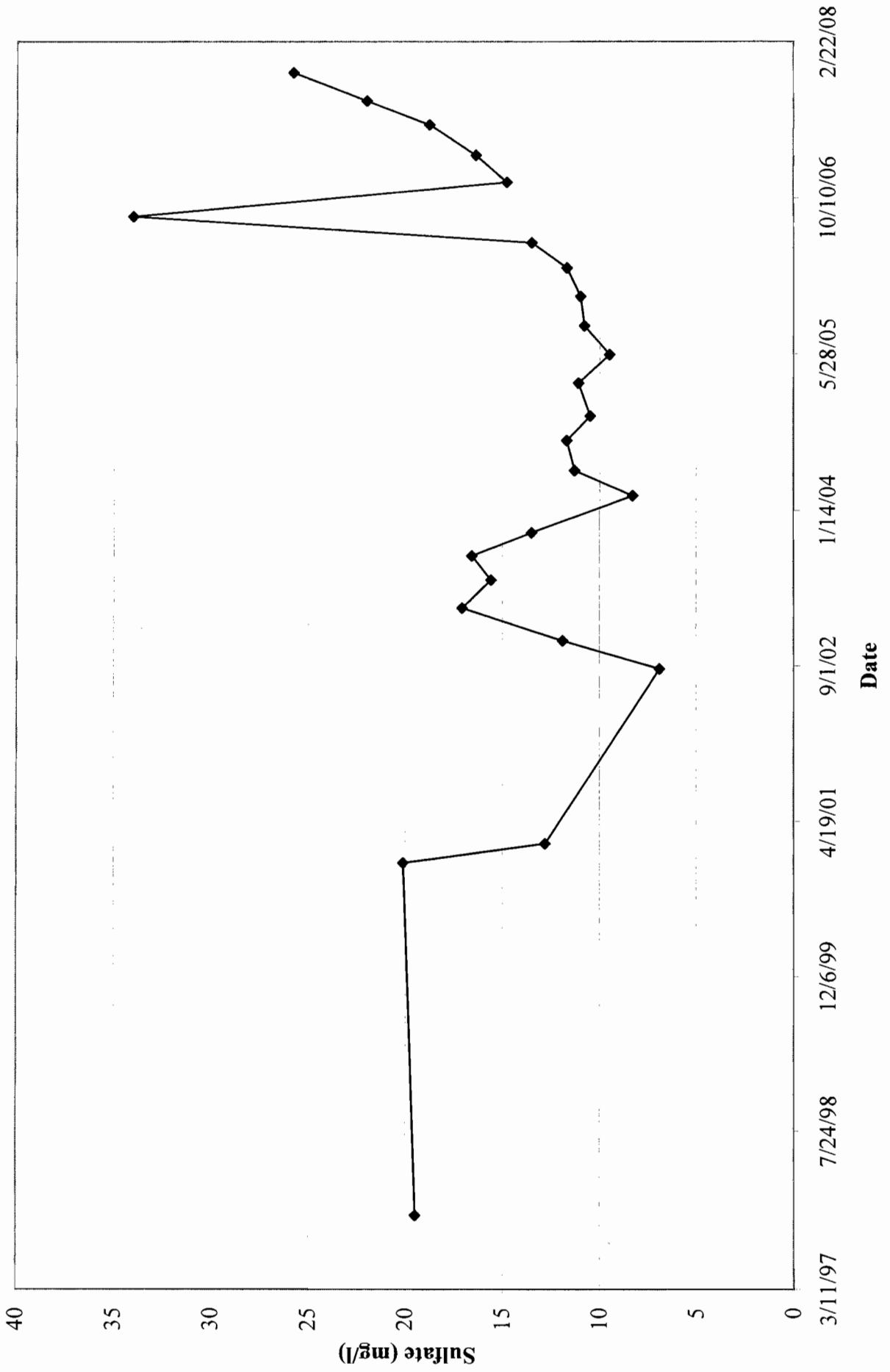
NITRATE IN MW-12D



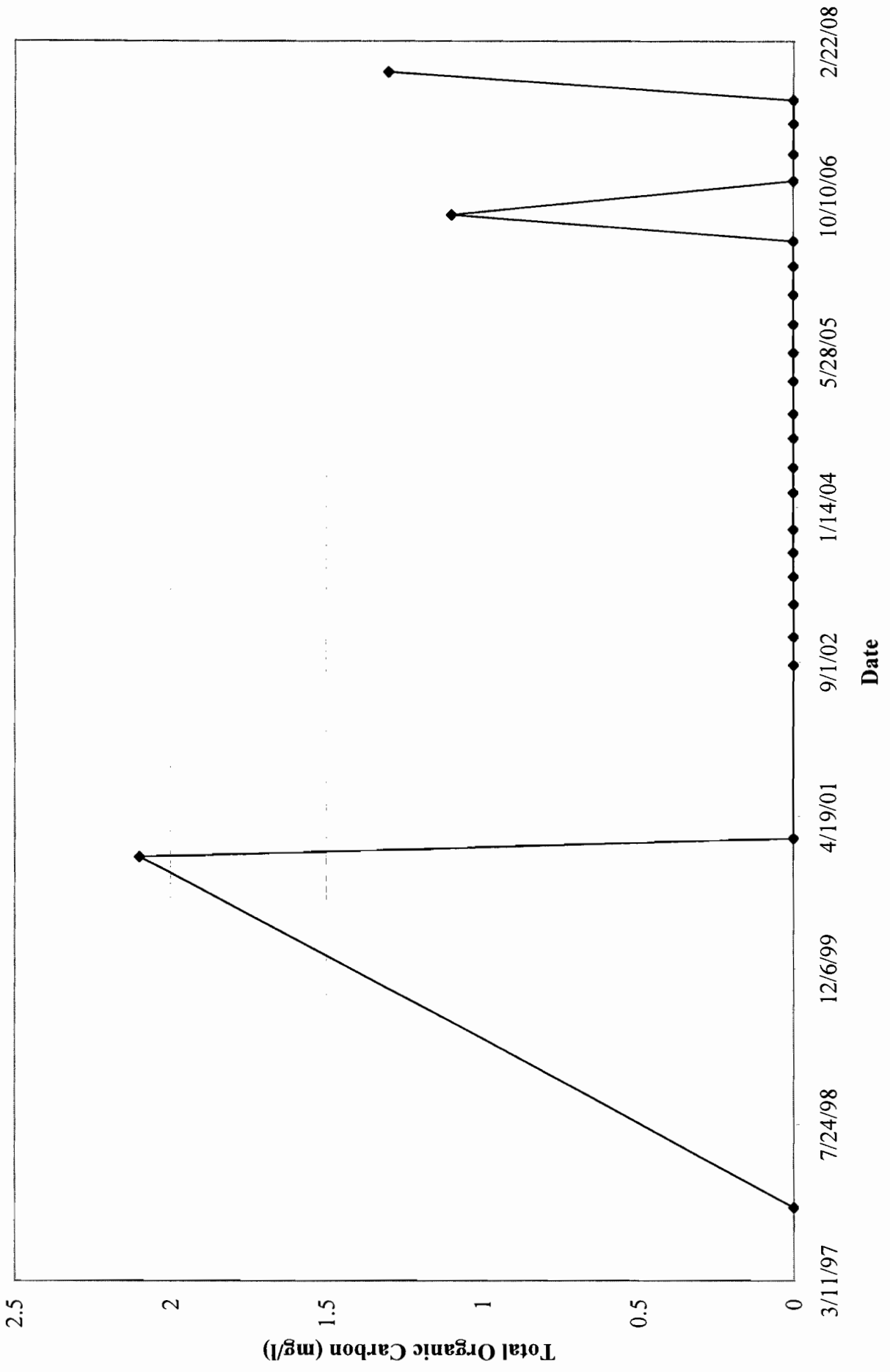
TOTAL PHENOLS IN MW-12D



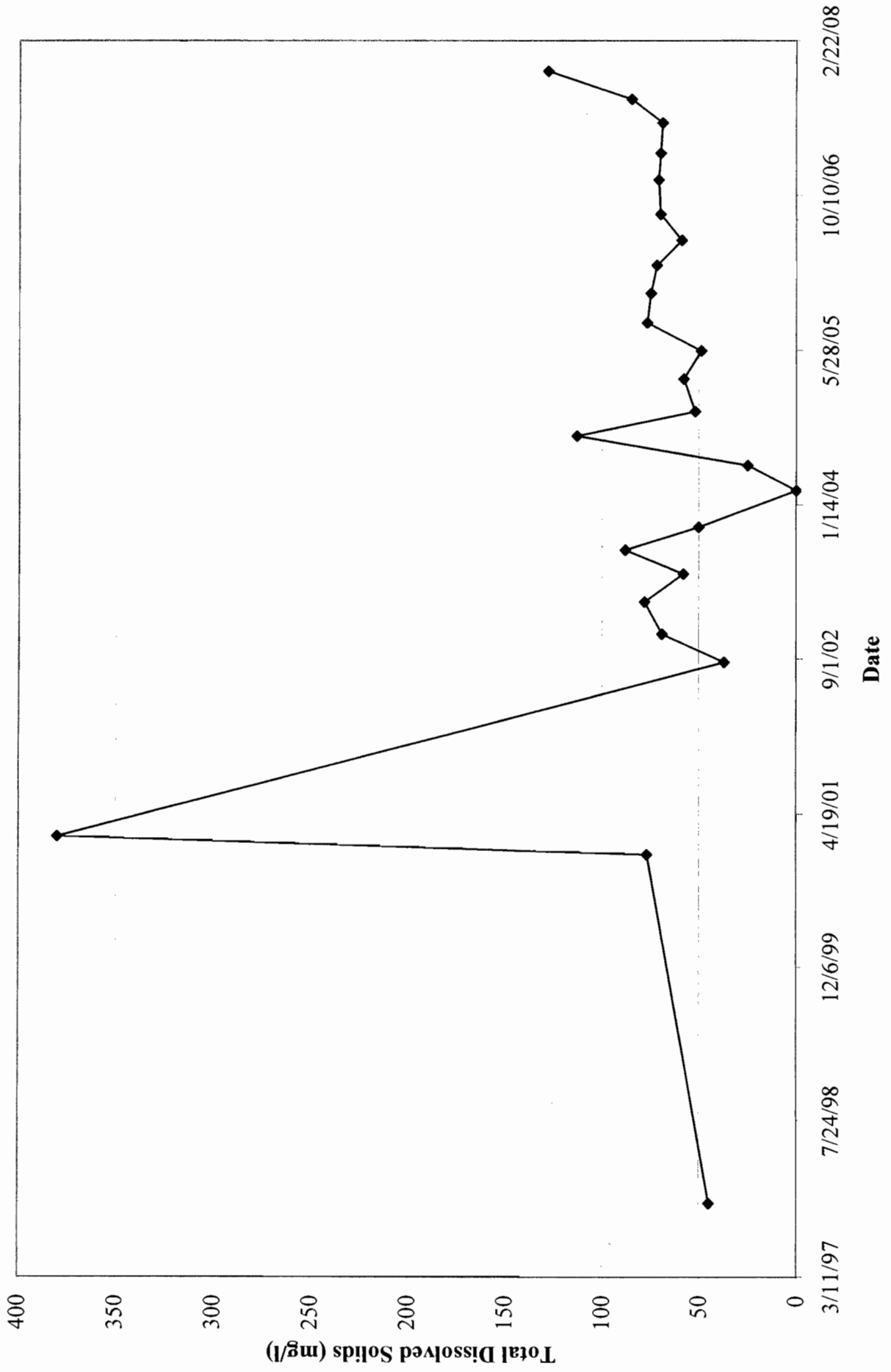
SULFATE IN MW-12D



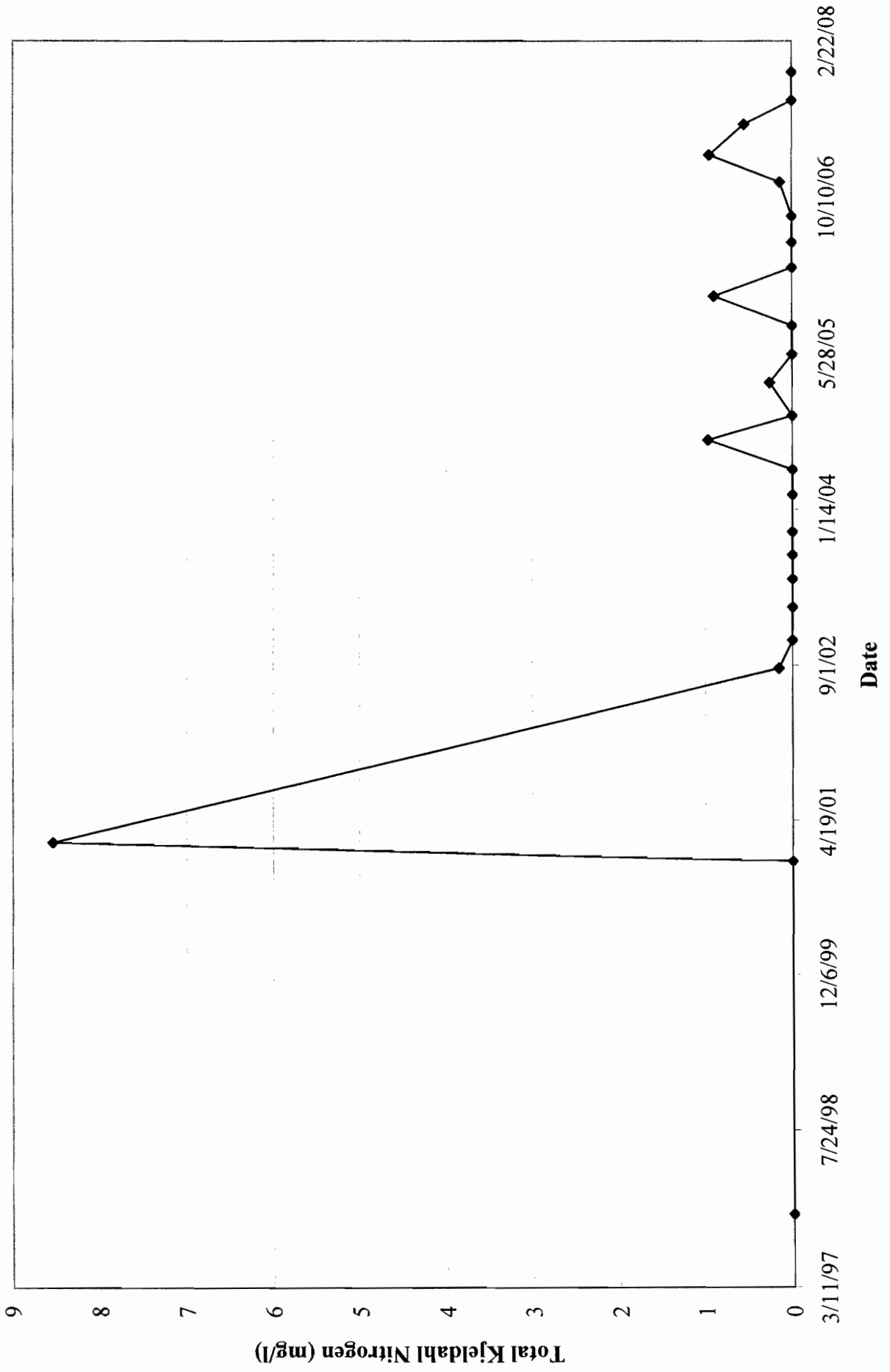
TOTAL ORGANIC CARBON IN MW-12D



TOTAL DISSOLVED SOLIDS IN MW-12D



TOTAL KJELDAHL NITROGEN IN MW-12D

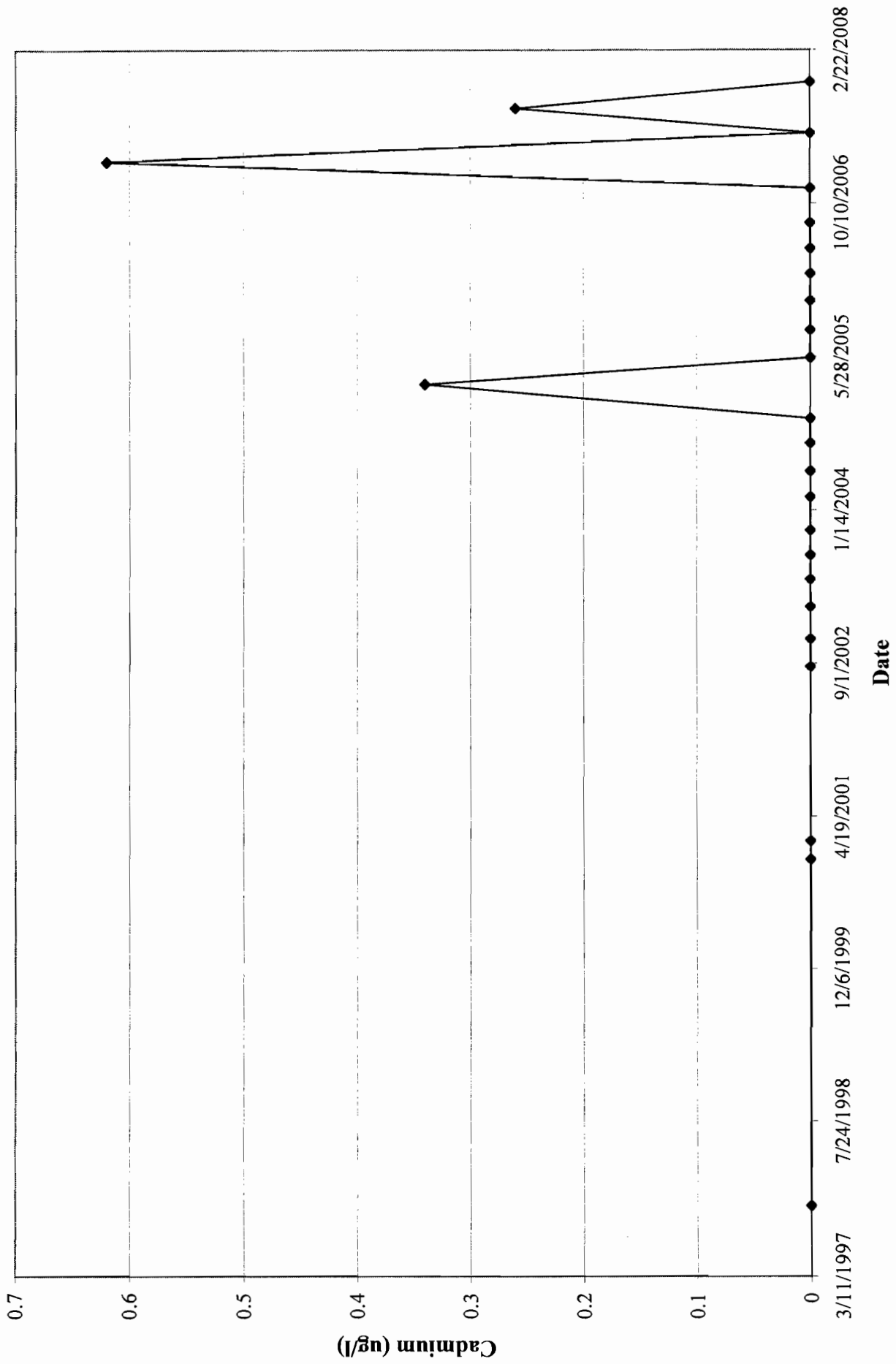


APPENDIX C-2

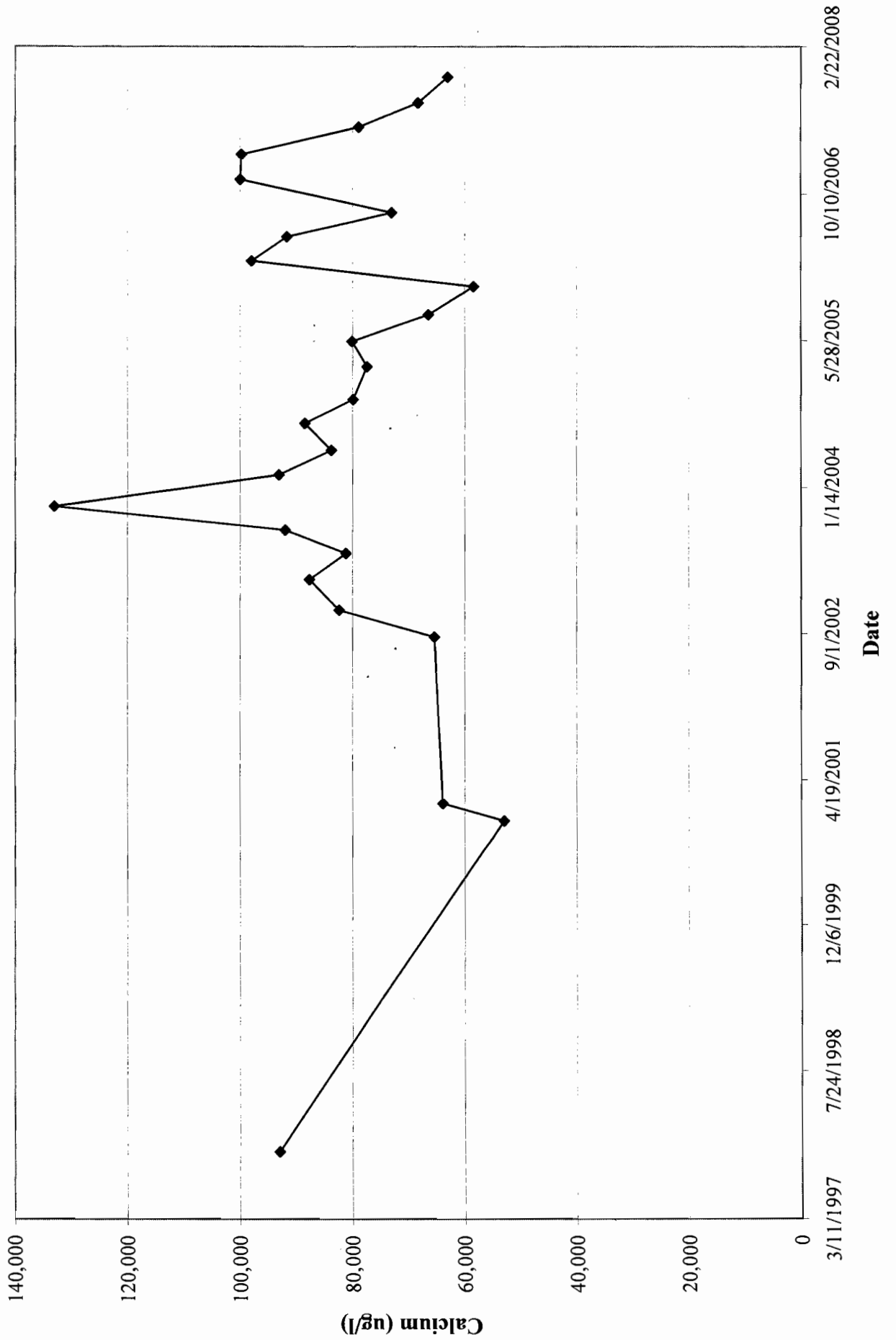
Inorganic Parameters



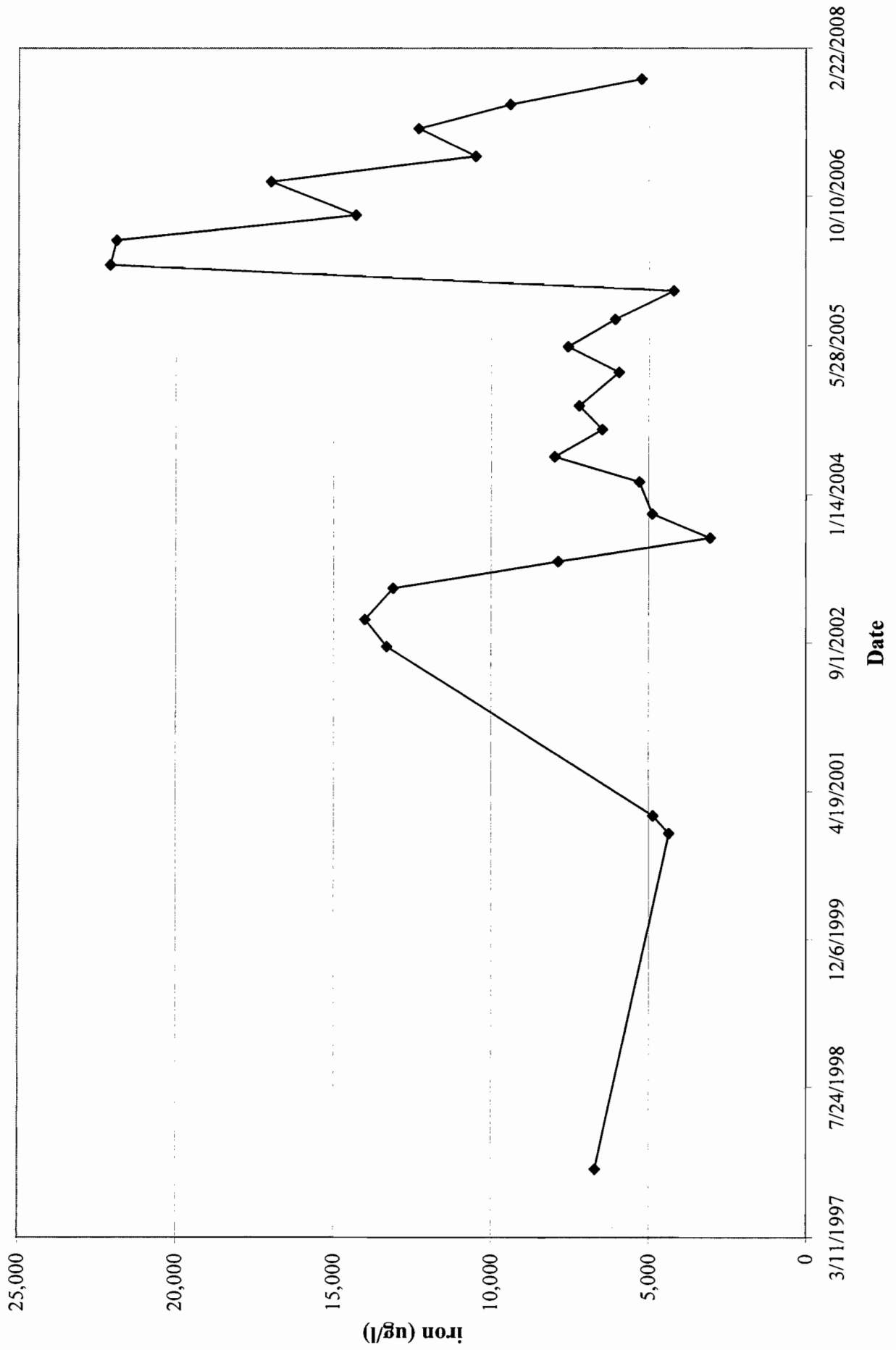
CADMIUM IN MW-01S



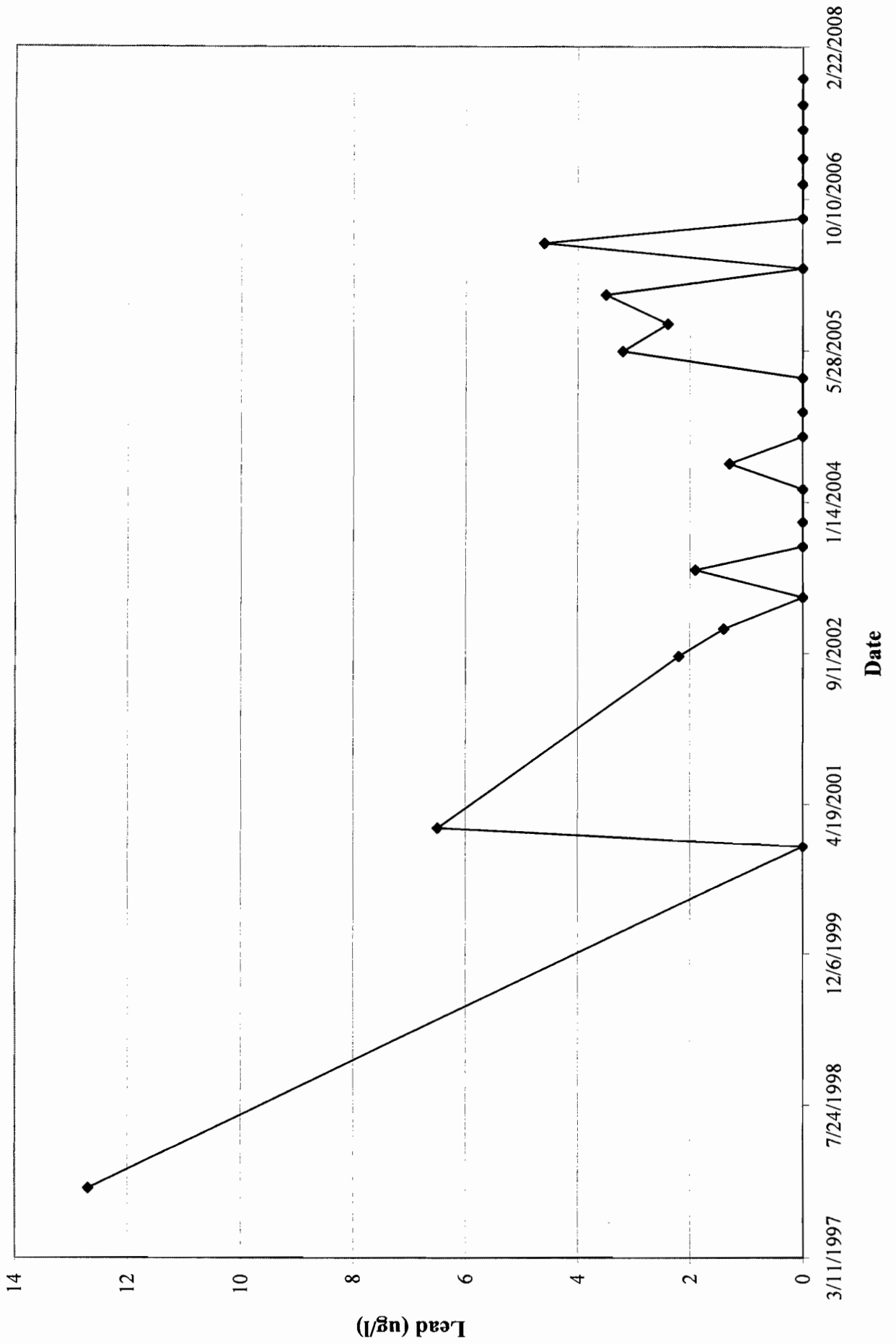
CALCIUM IN MW-01S



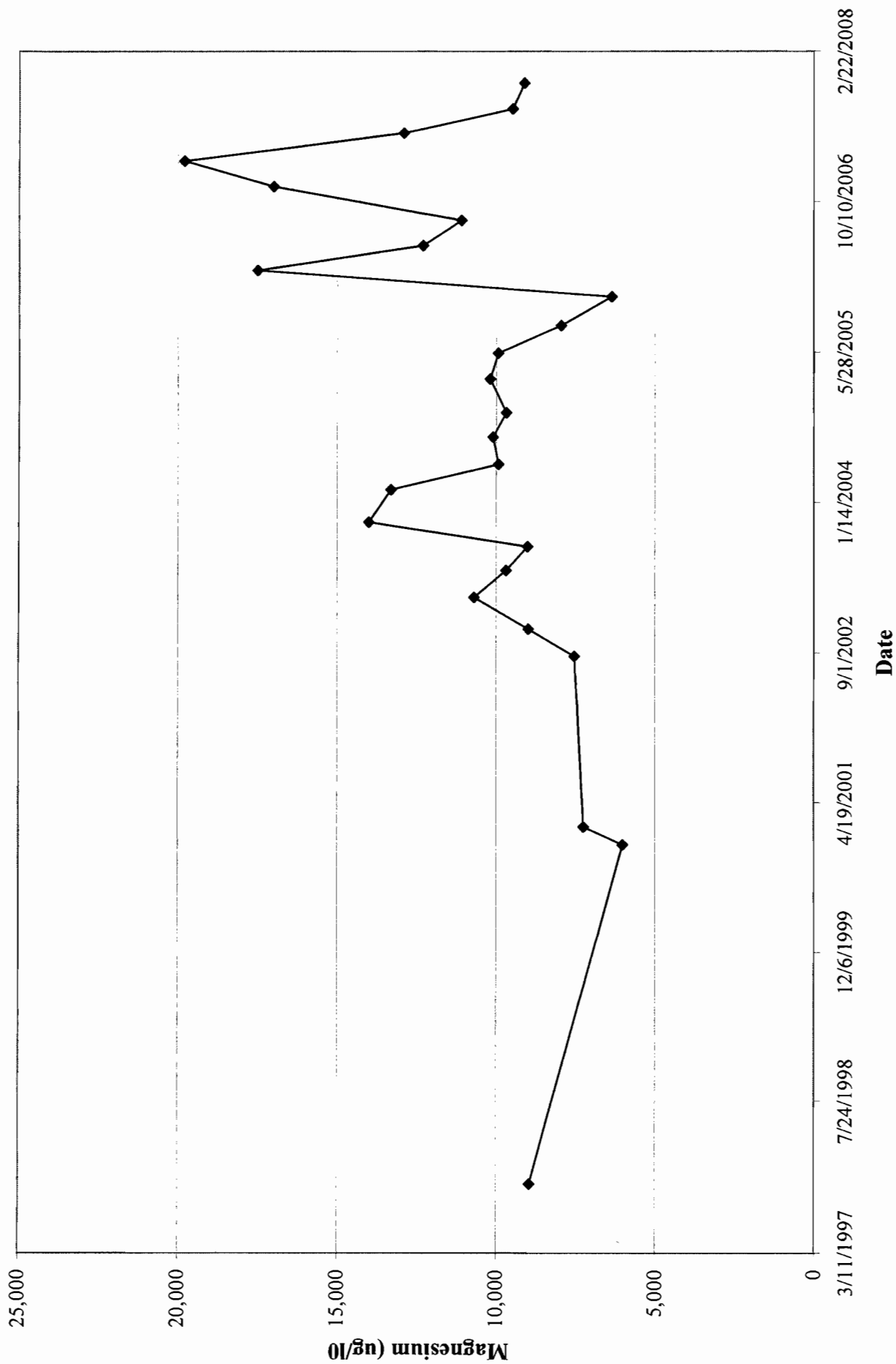
IRON IN MW-01S



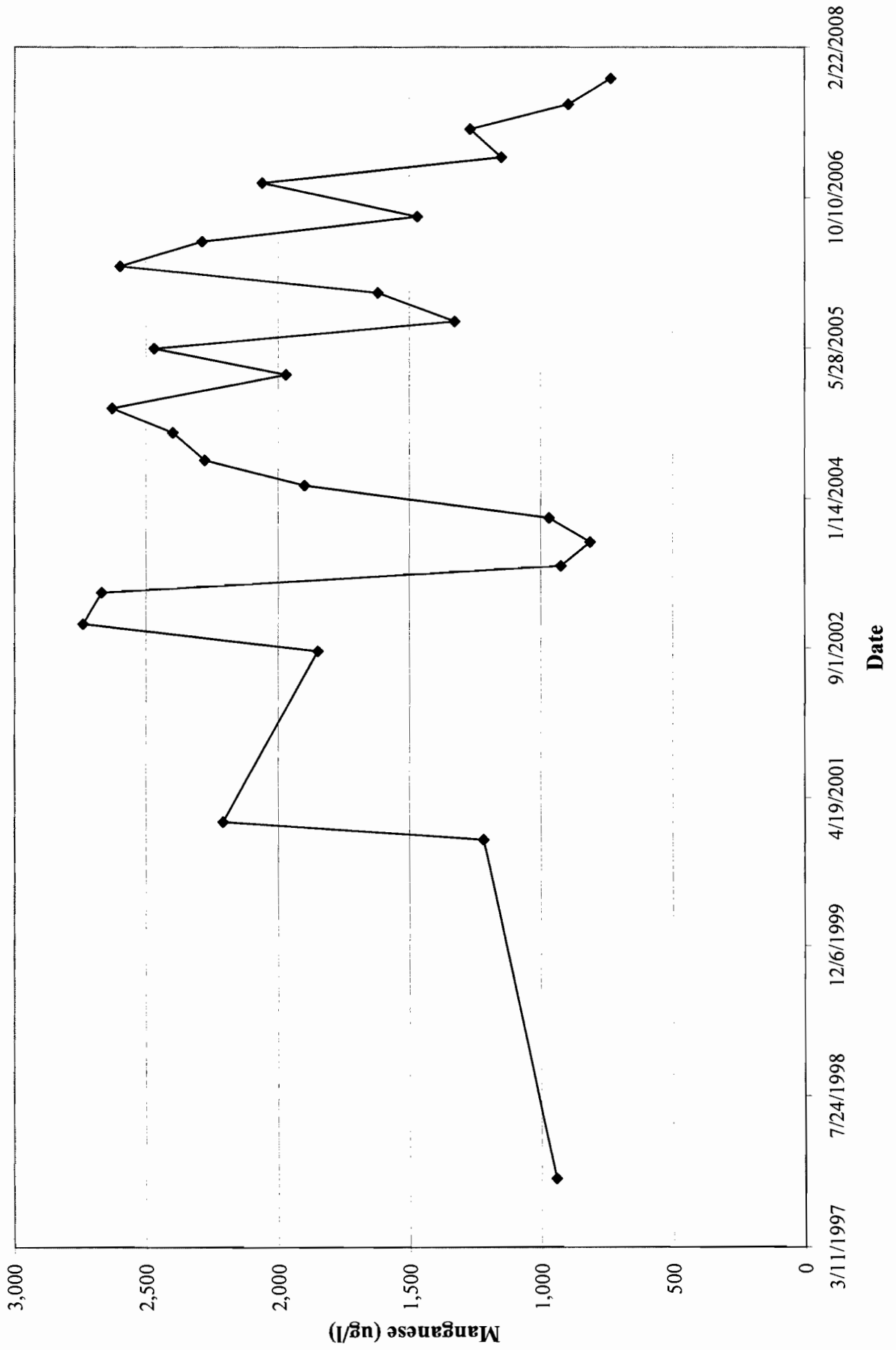
LEAD IN MW-01S



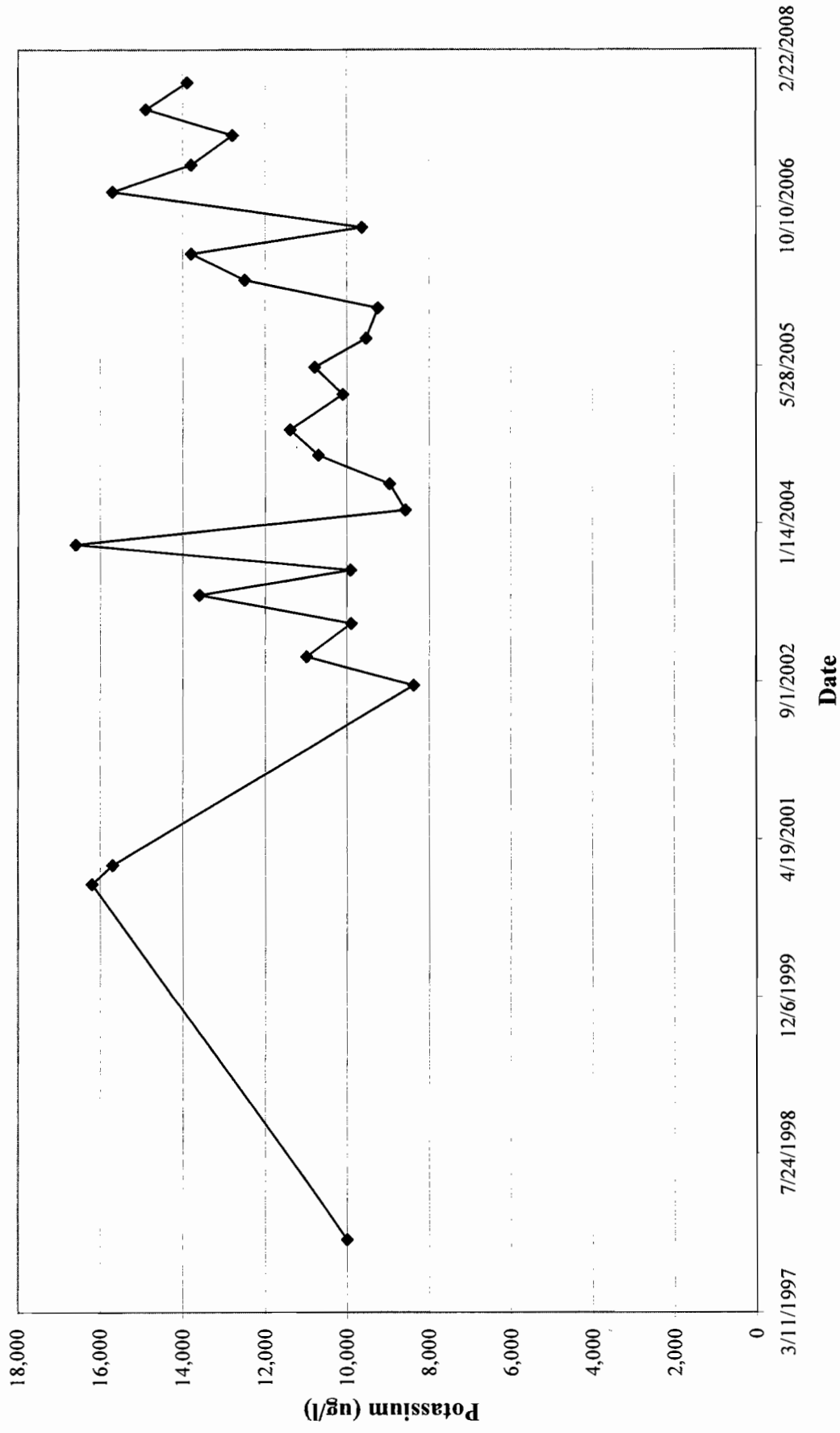
MAGNESIUM IN MW-01S



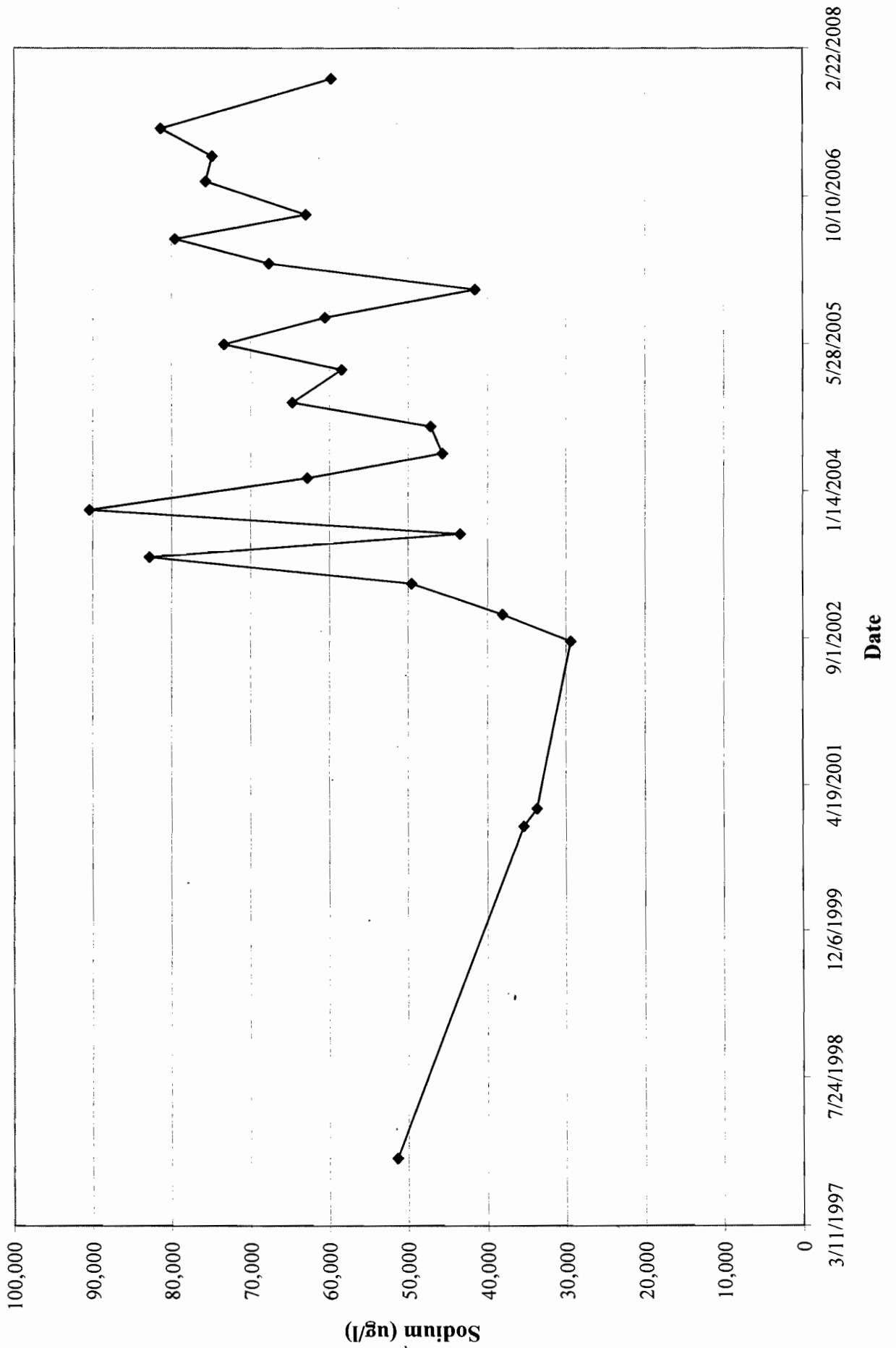
MANGANESE IN MW-01S



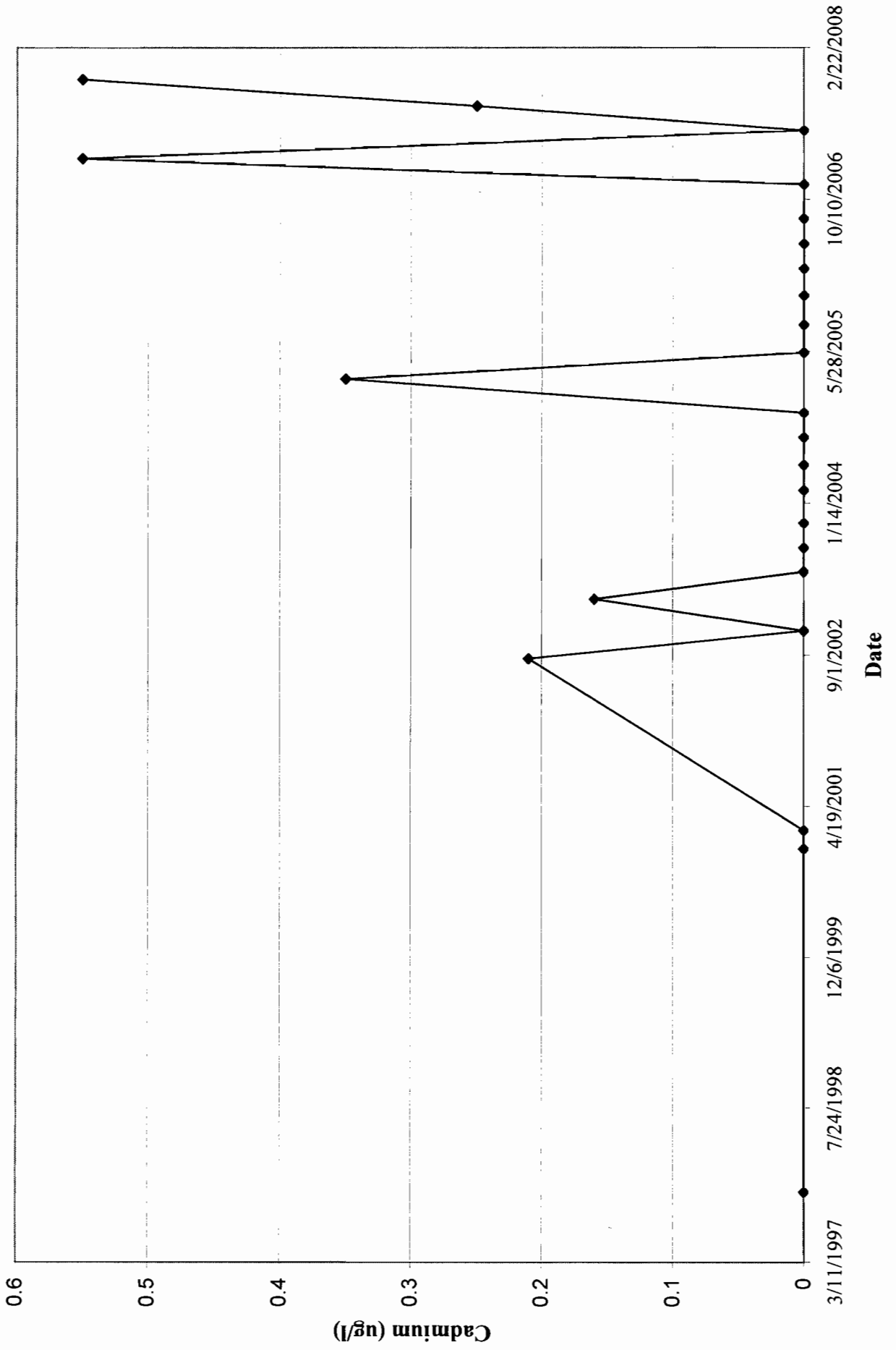
POTASSIUM IN MW-01S



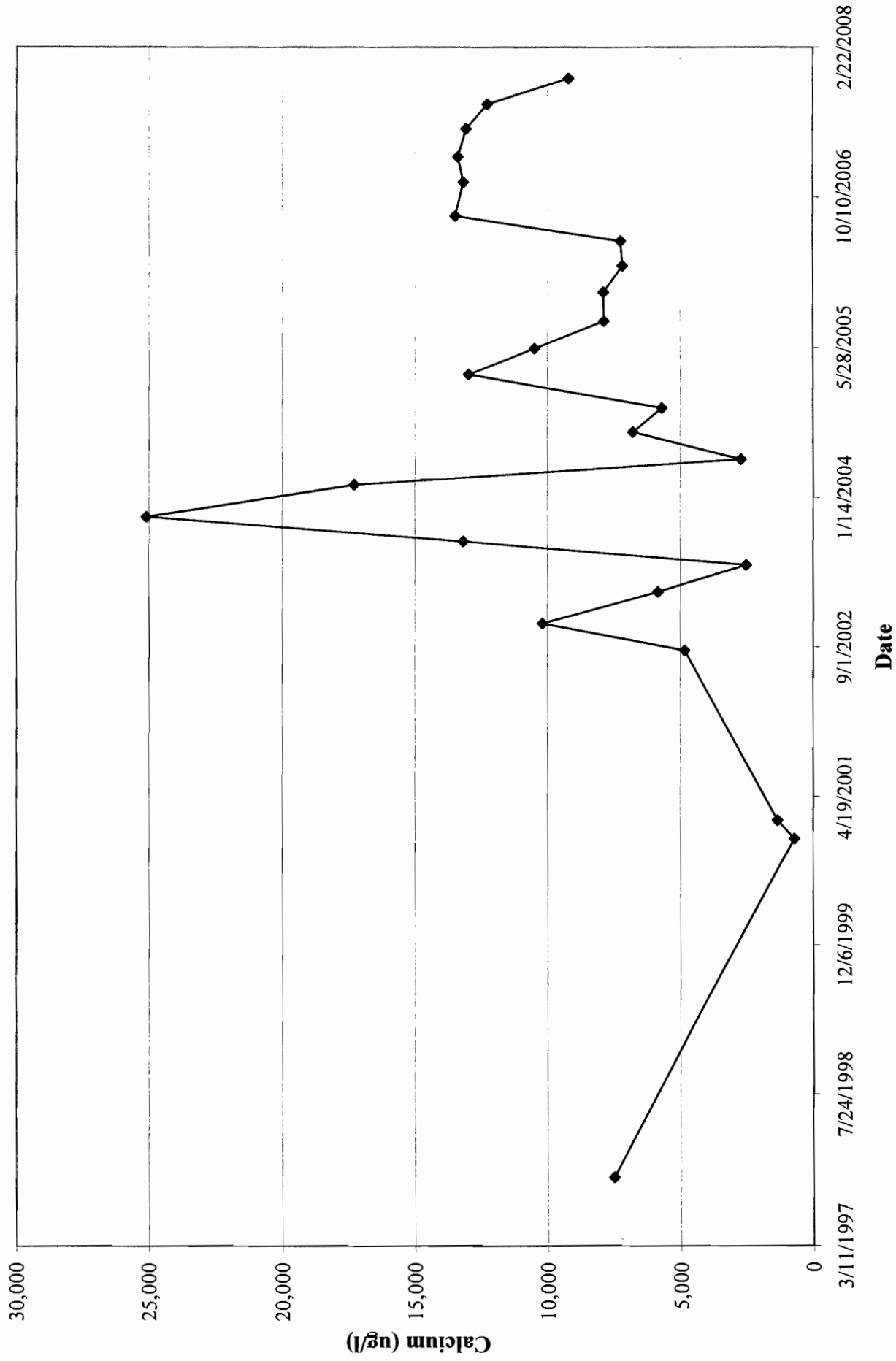
SODIUM IN MW-01S



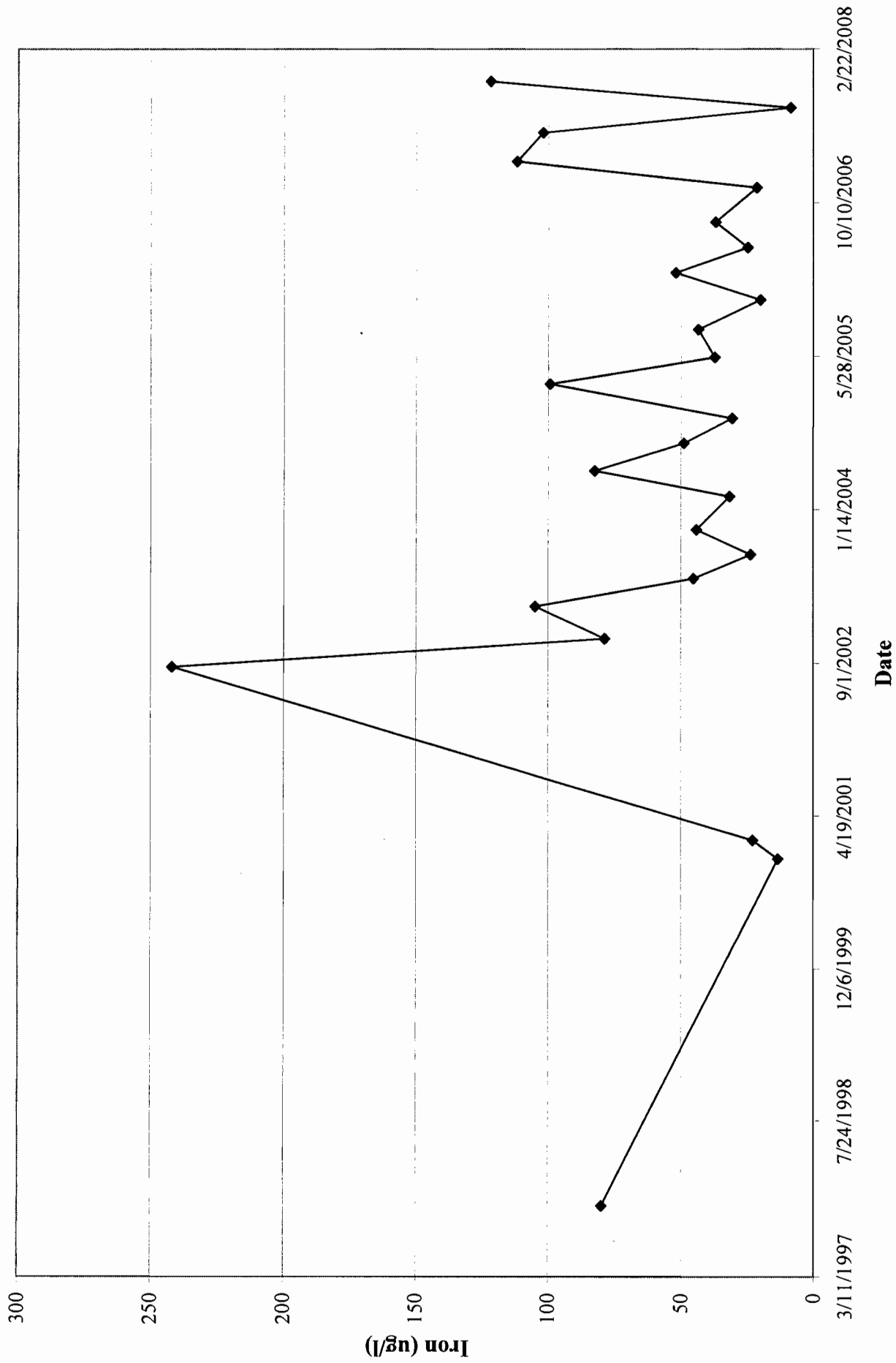
CADMIUM IN MW-01I



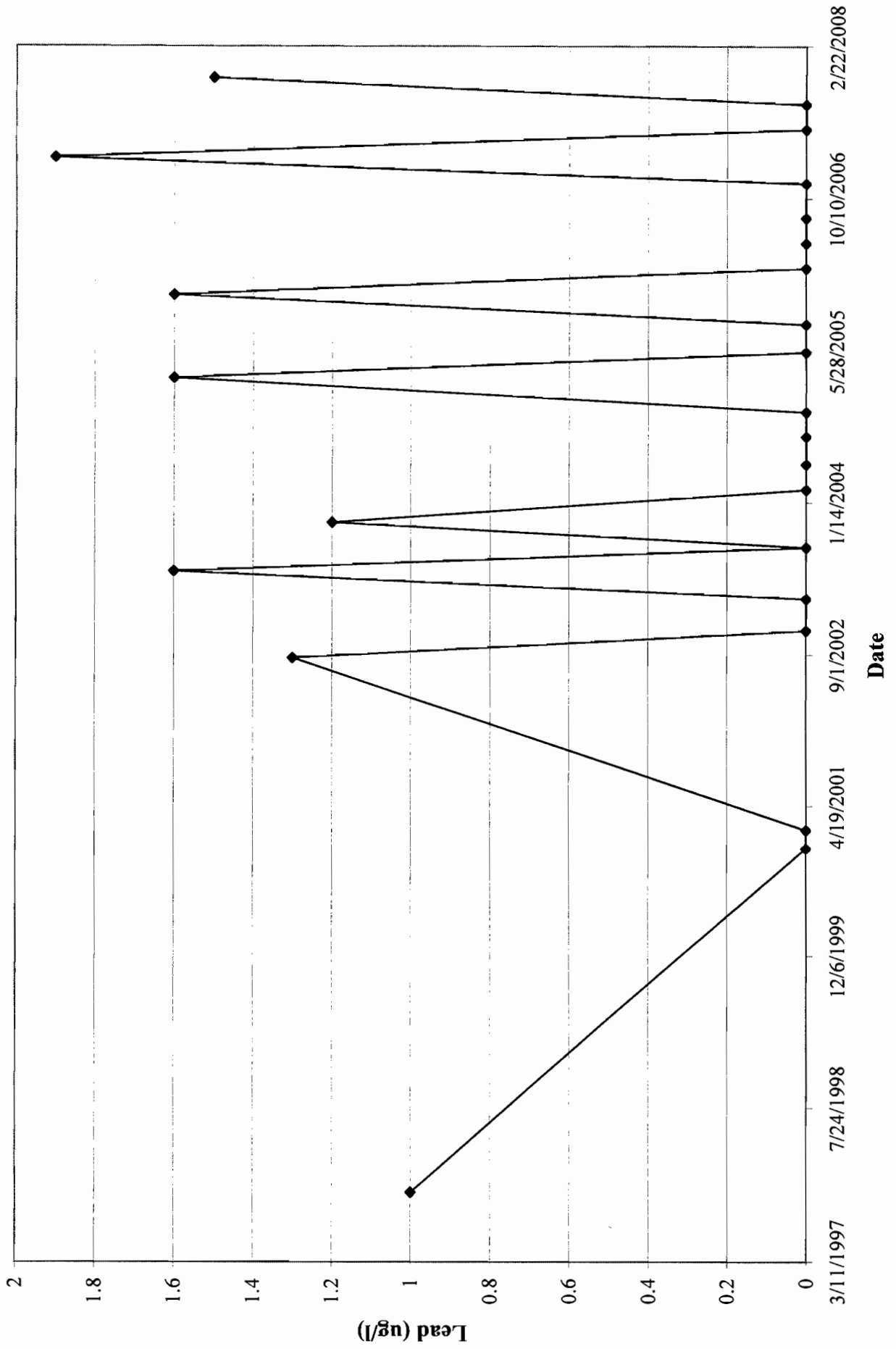
CALCIUM IN MW-01I



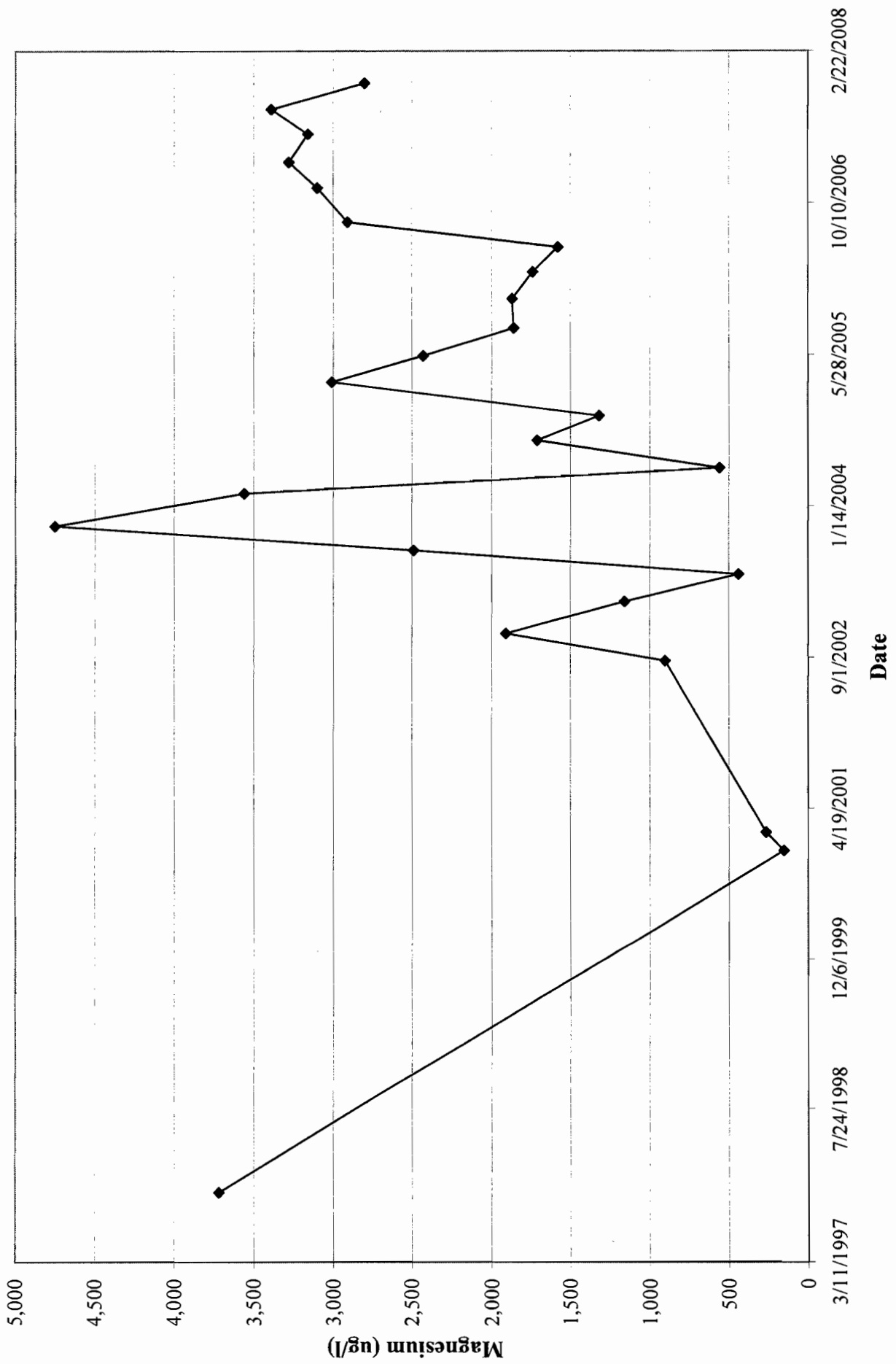
IRON IN MW-01I



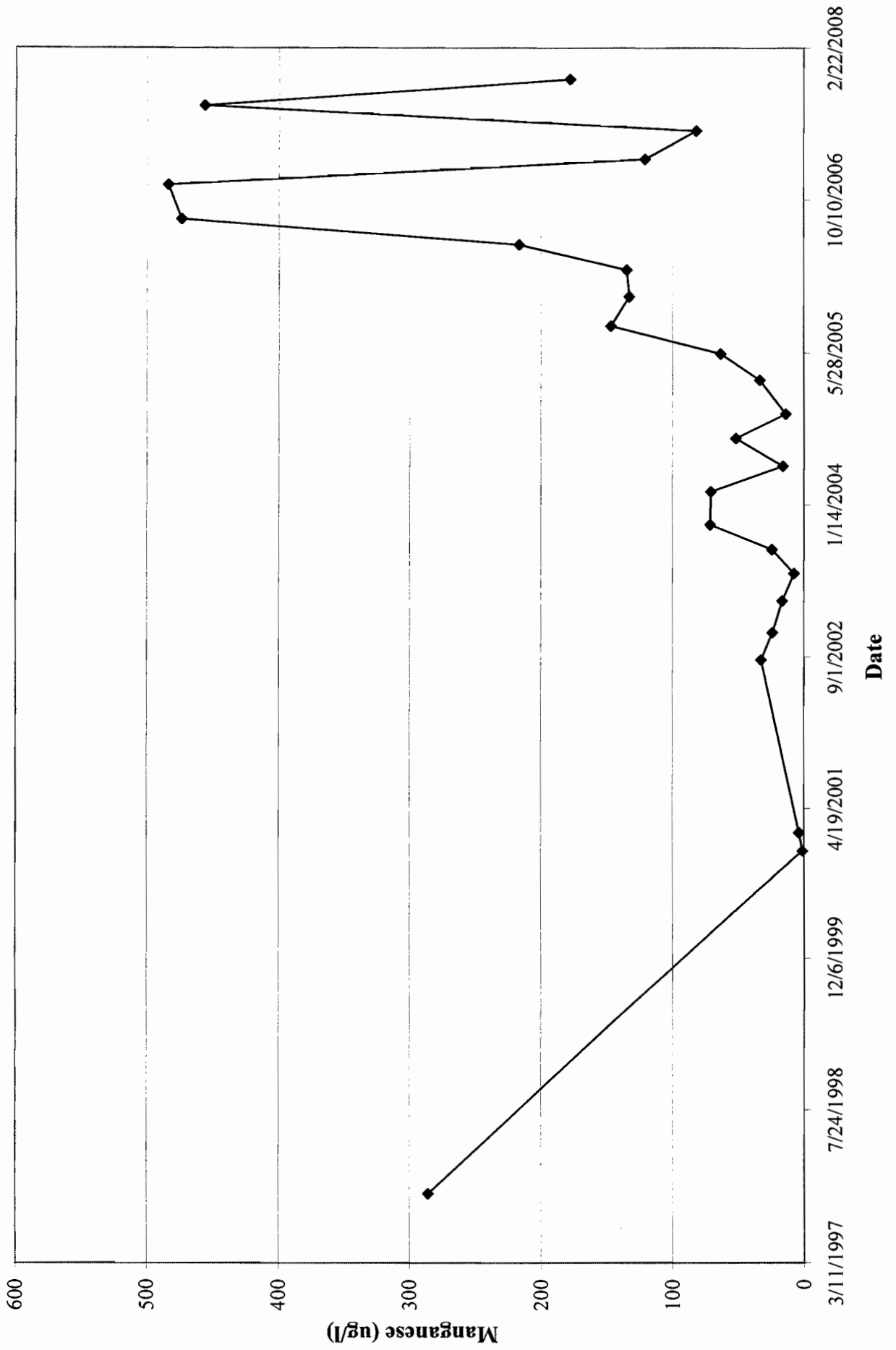
LEAD IN MW-01I



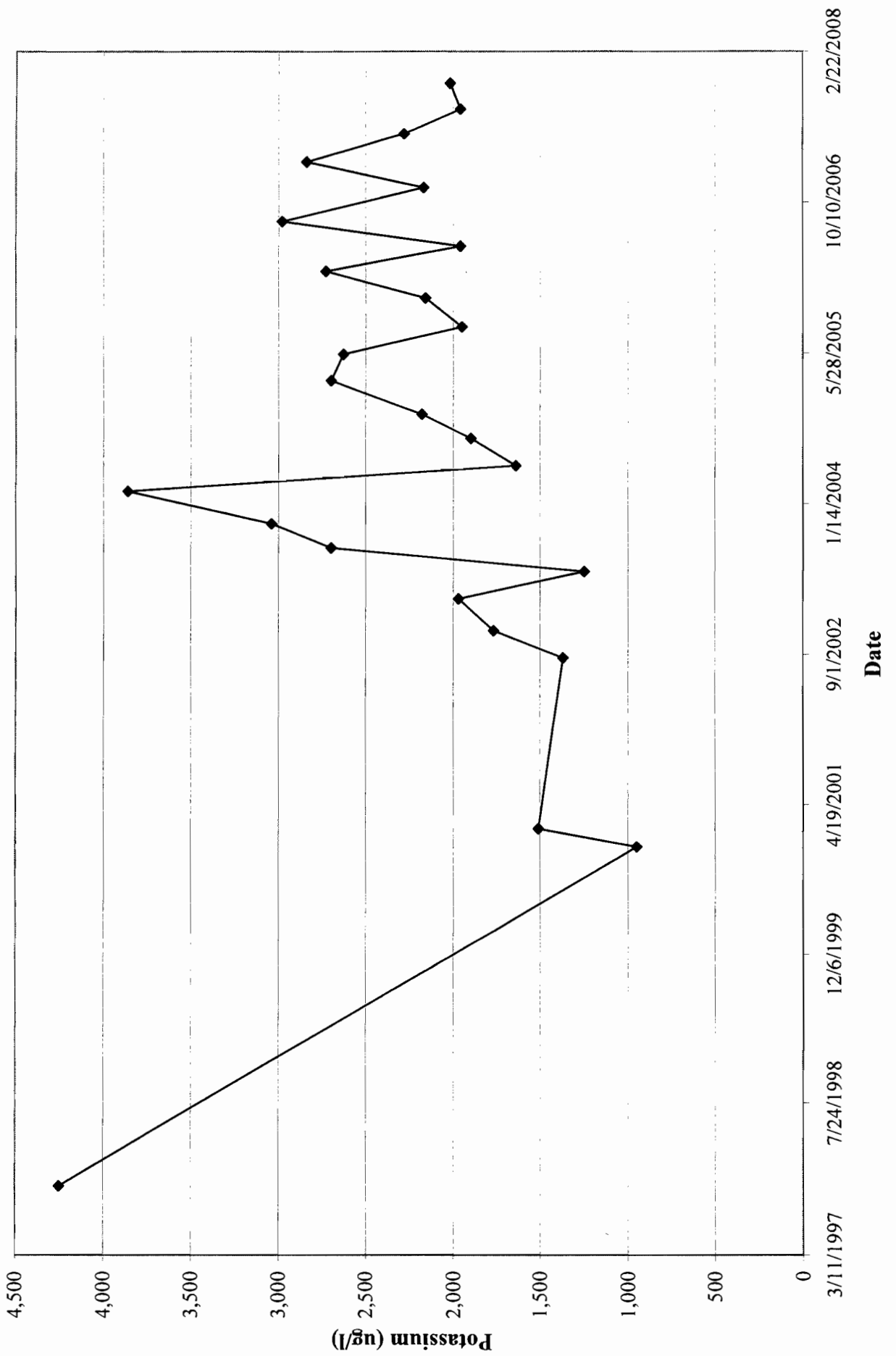
MAGNESIUM IN MW-01I



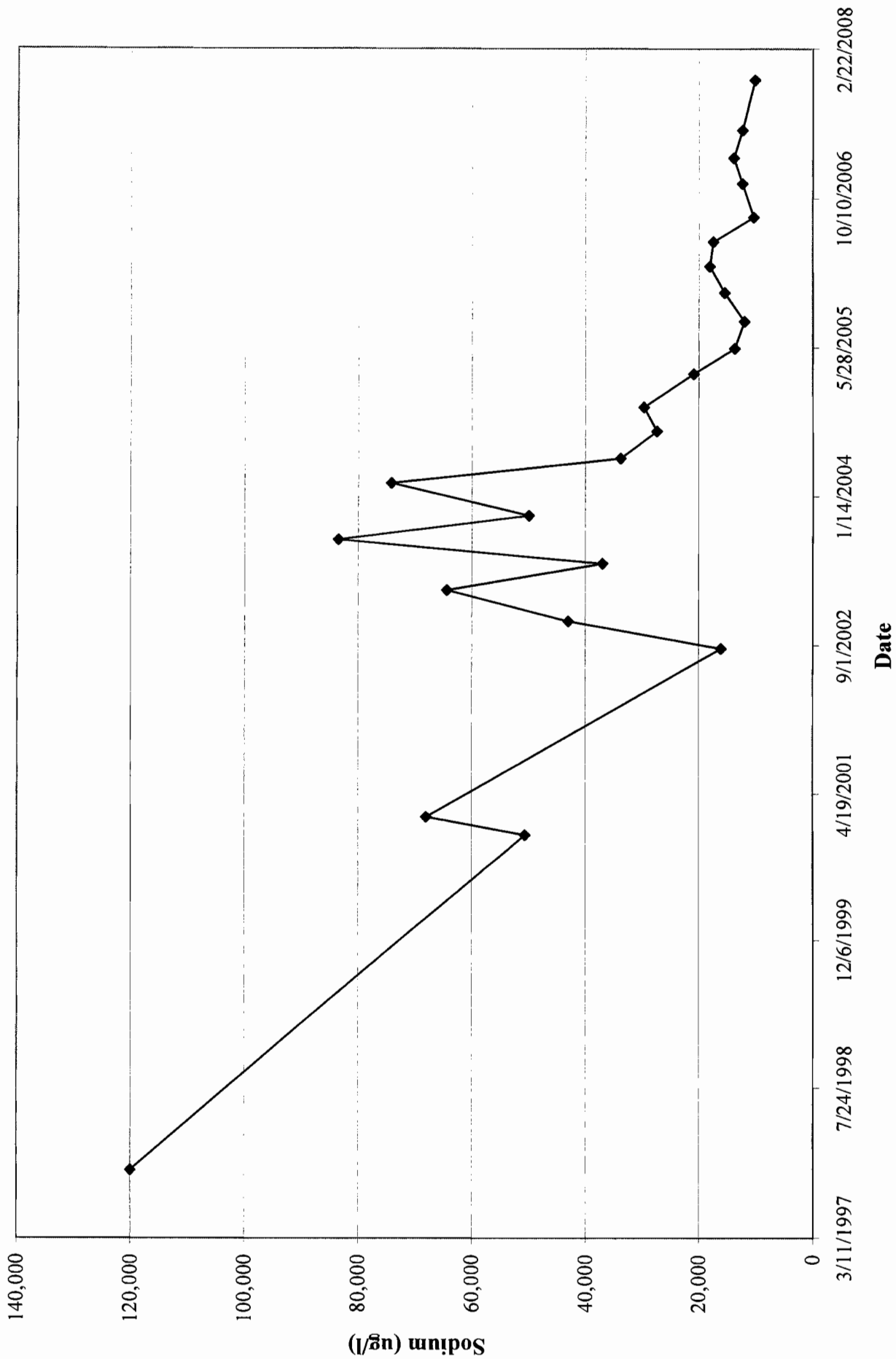
MANGANESE IN MW-01I



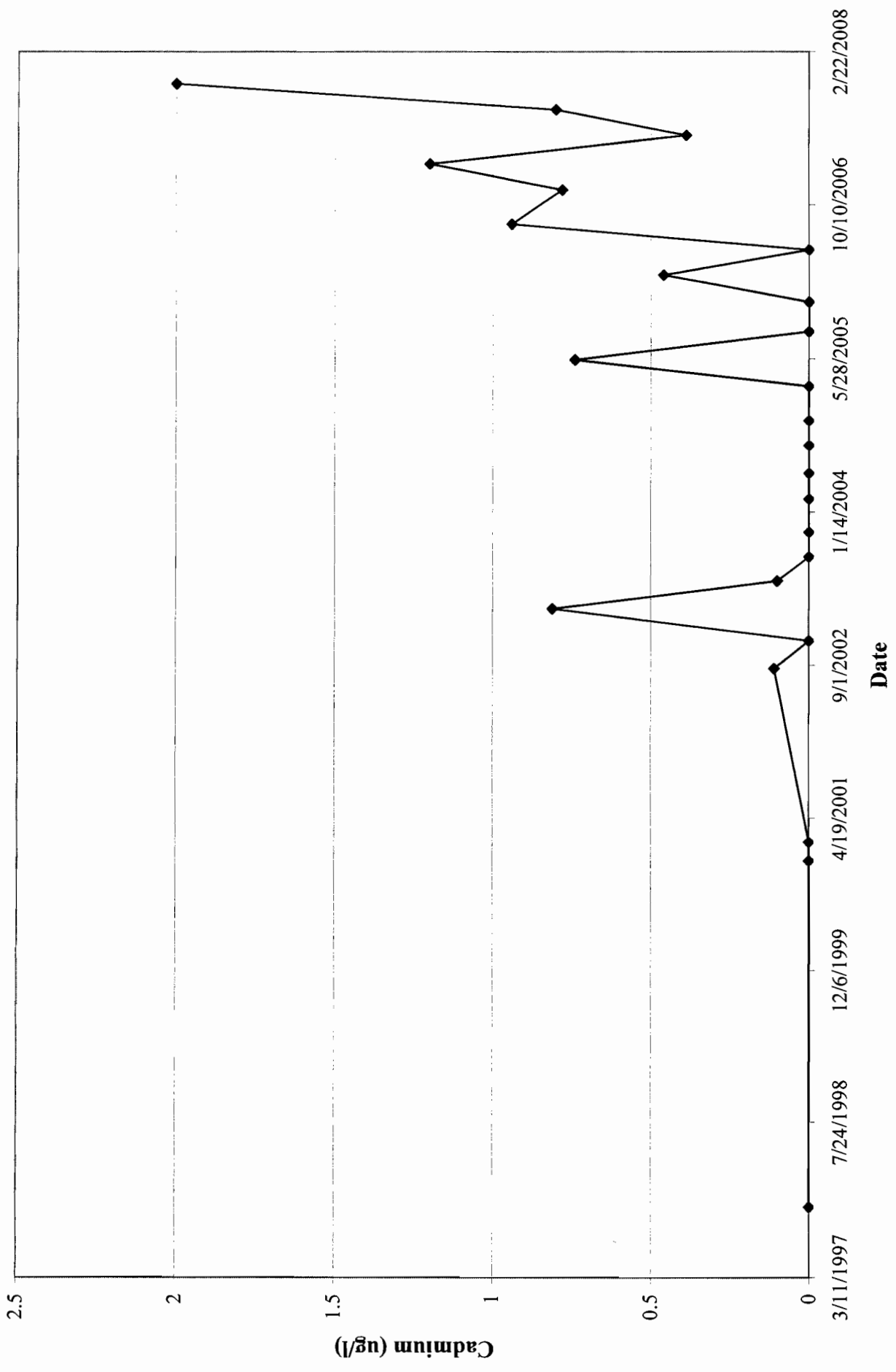
POTASSIUM IN MW-01I



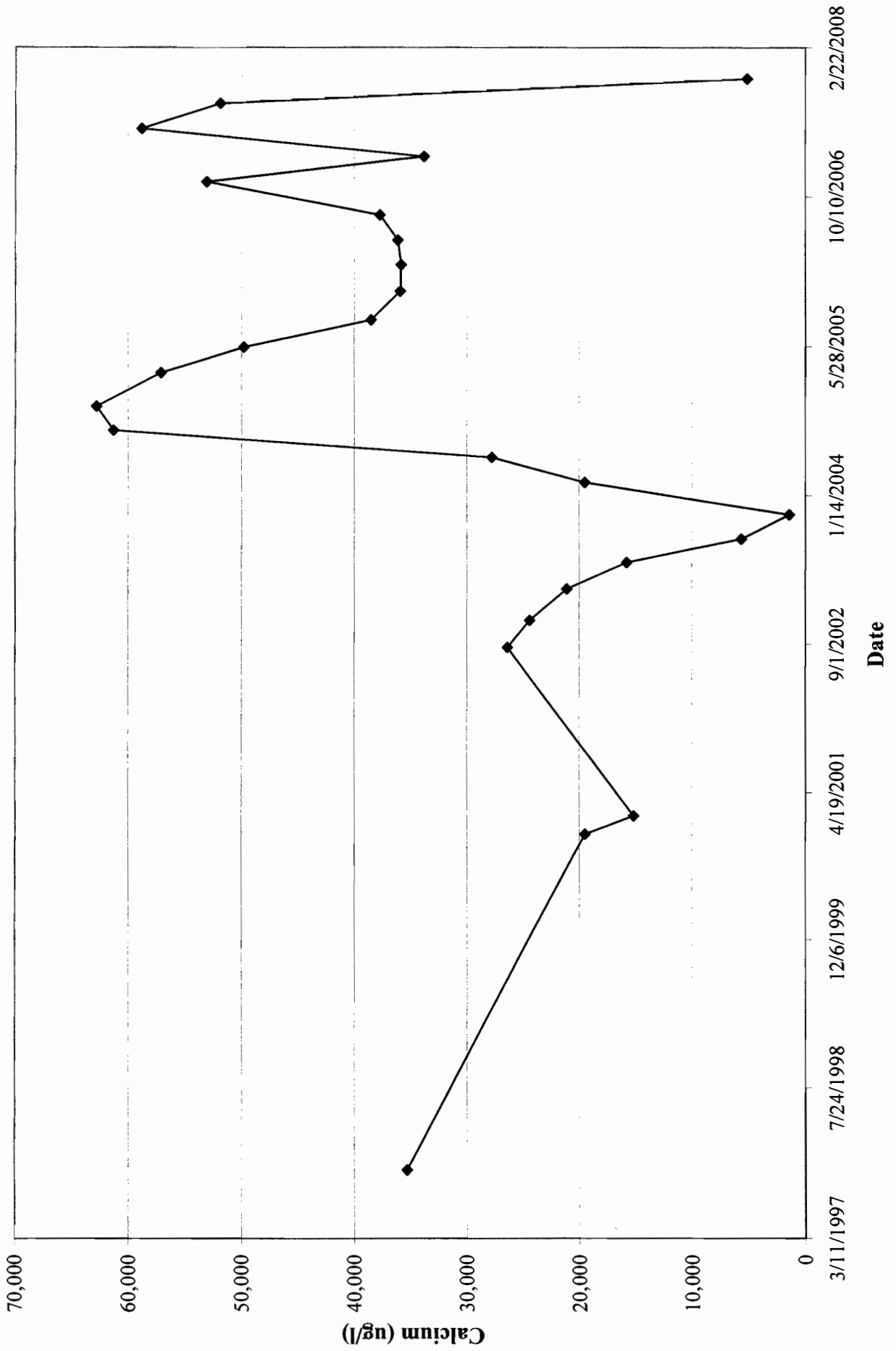
SODIUM IN MW-01I



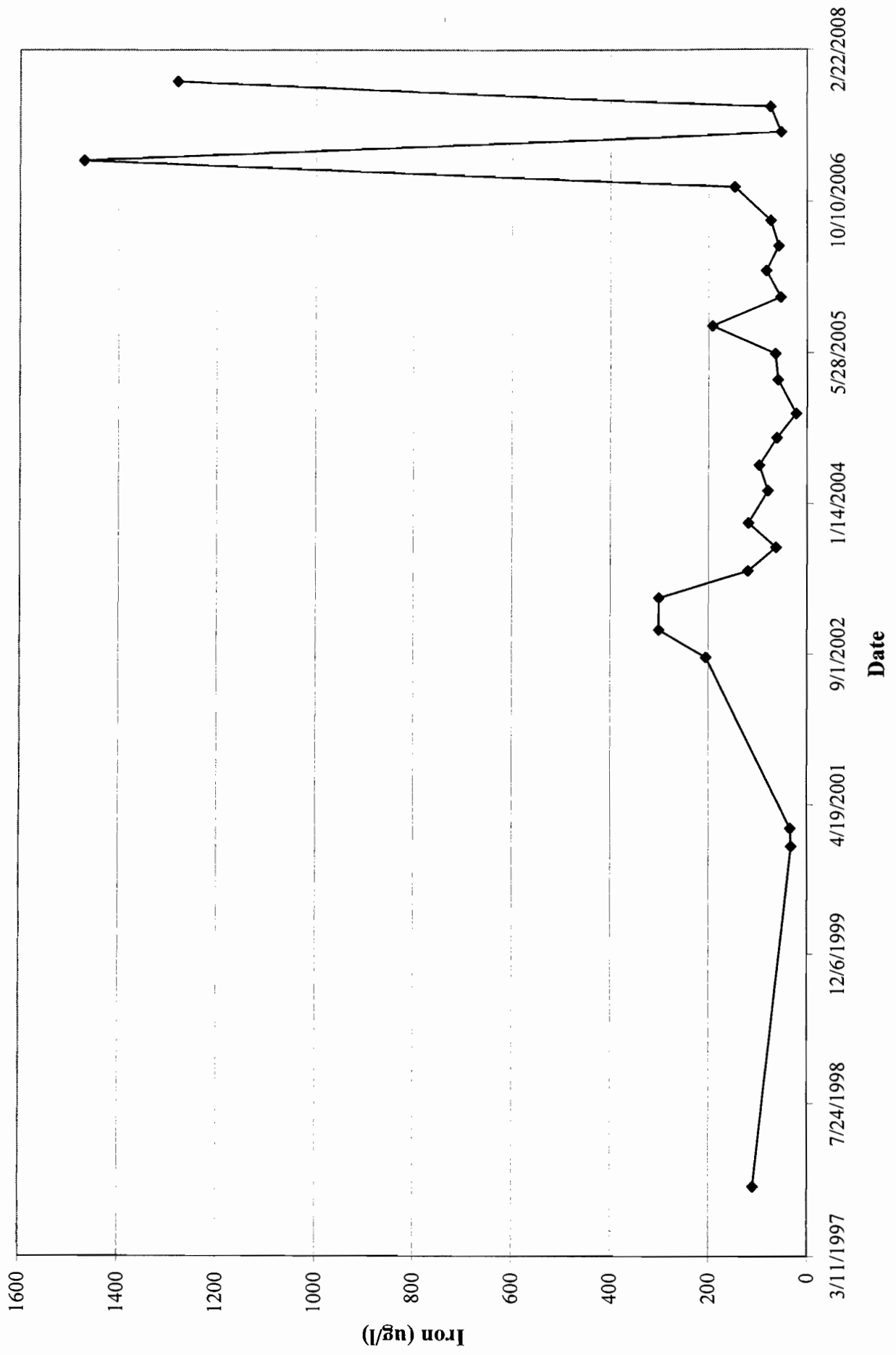
CADMIUM IN MW-01D



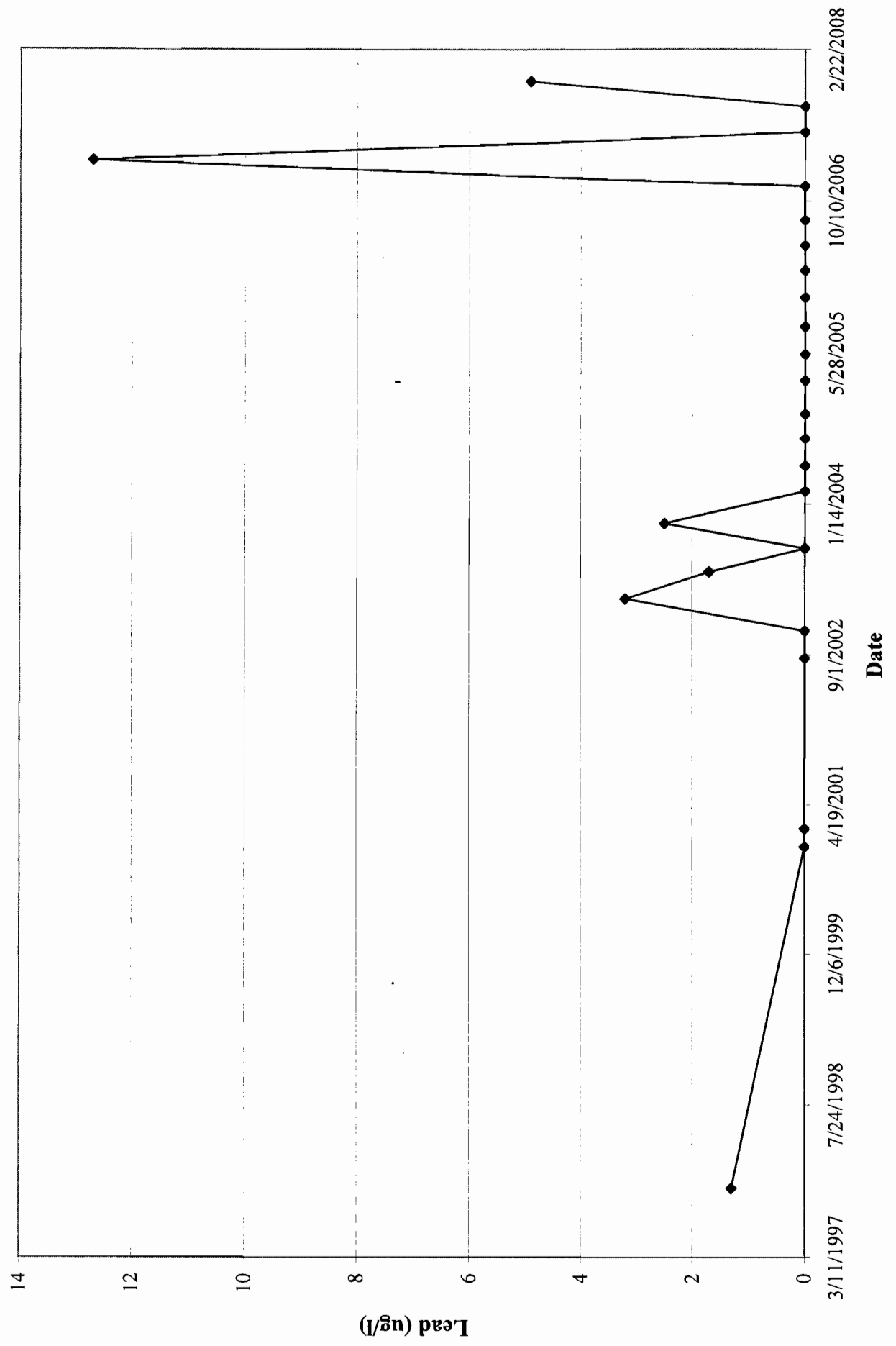
CALCIUM IN MW-01D



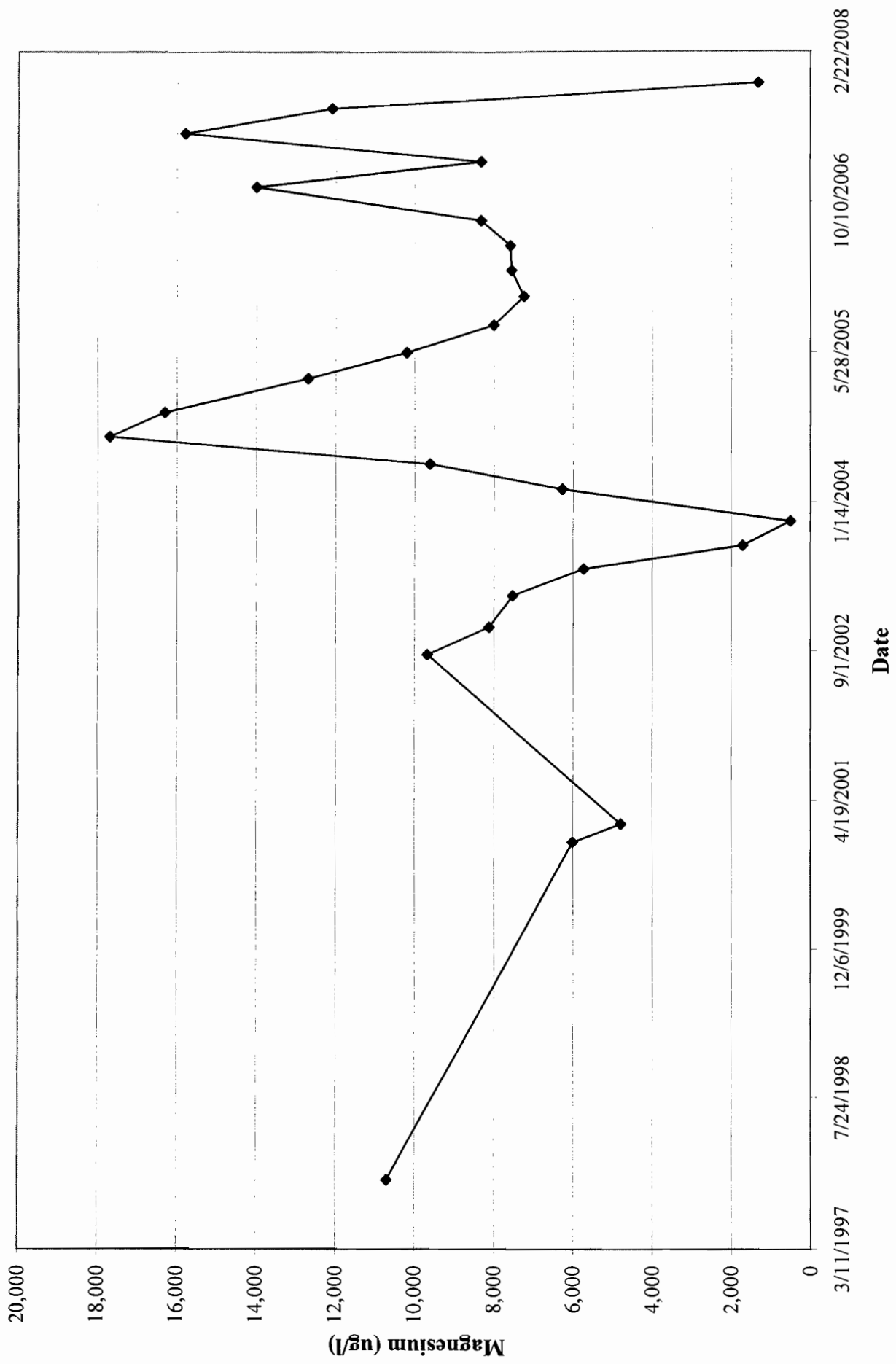
IRON IN MW-01D



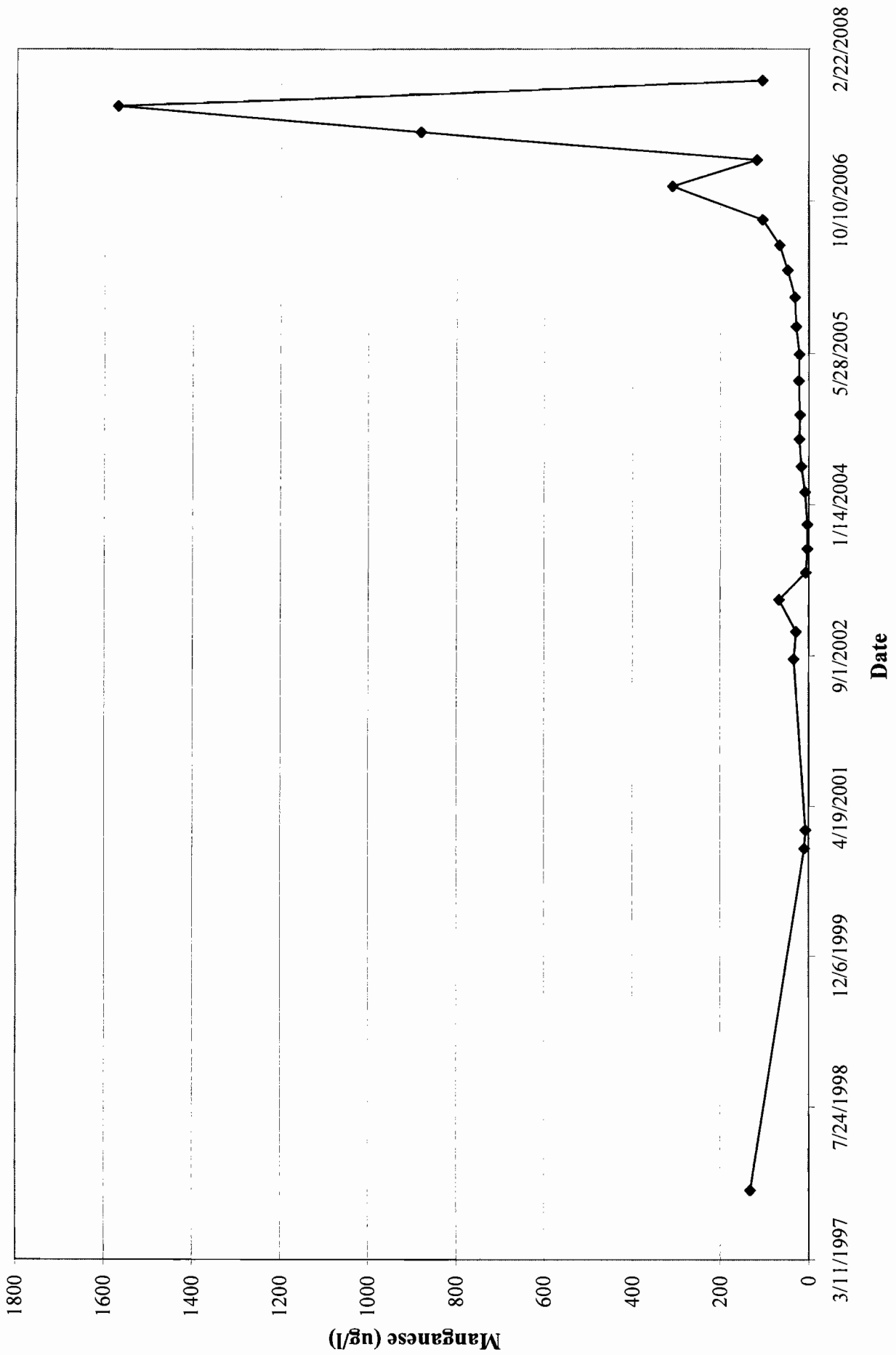
LEAD IN MW-01D



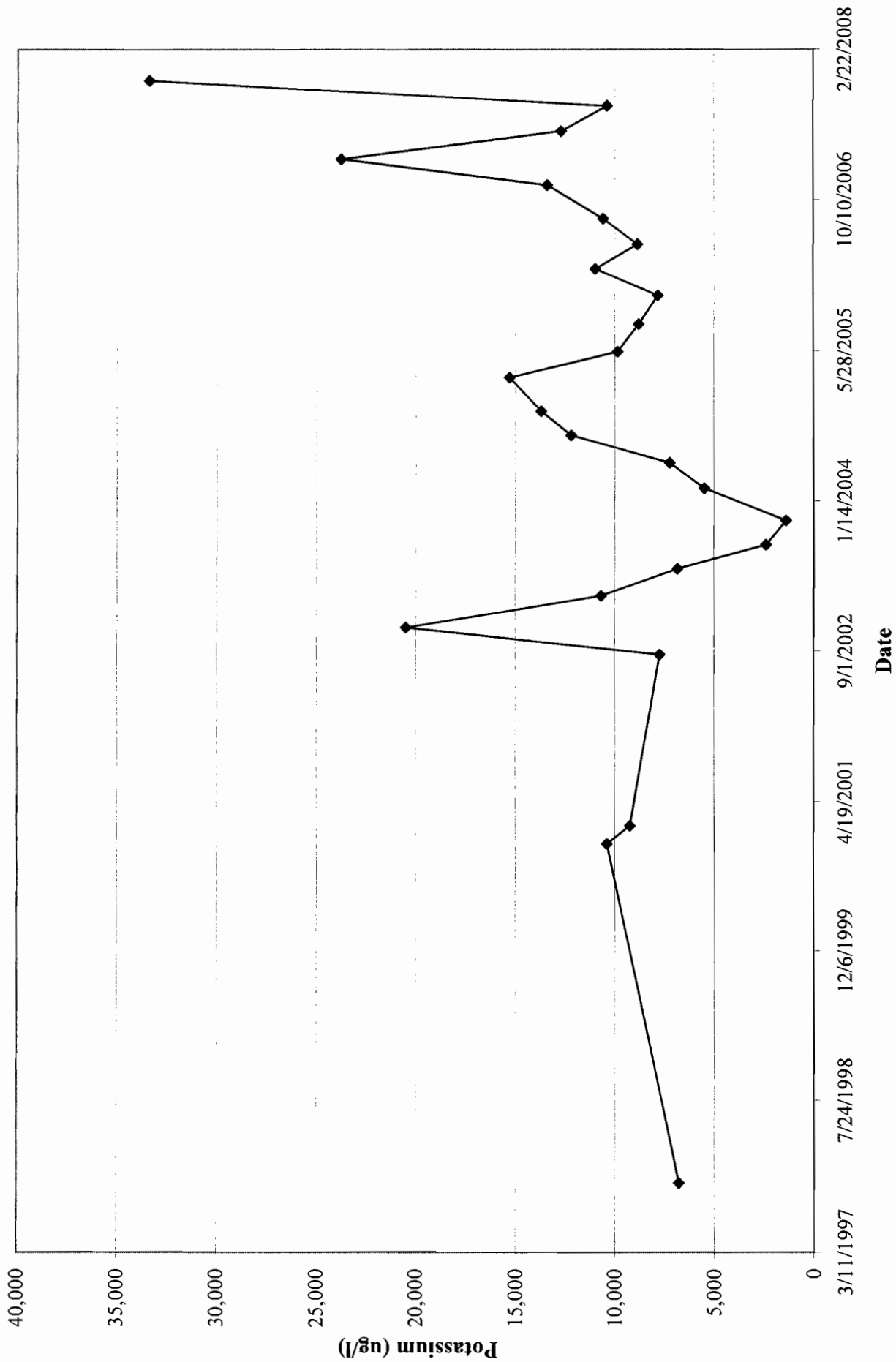
MAGNESIUM IN MW-01D



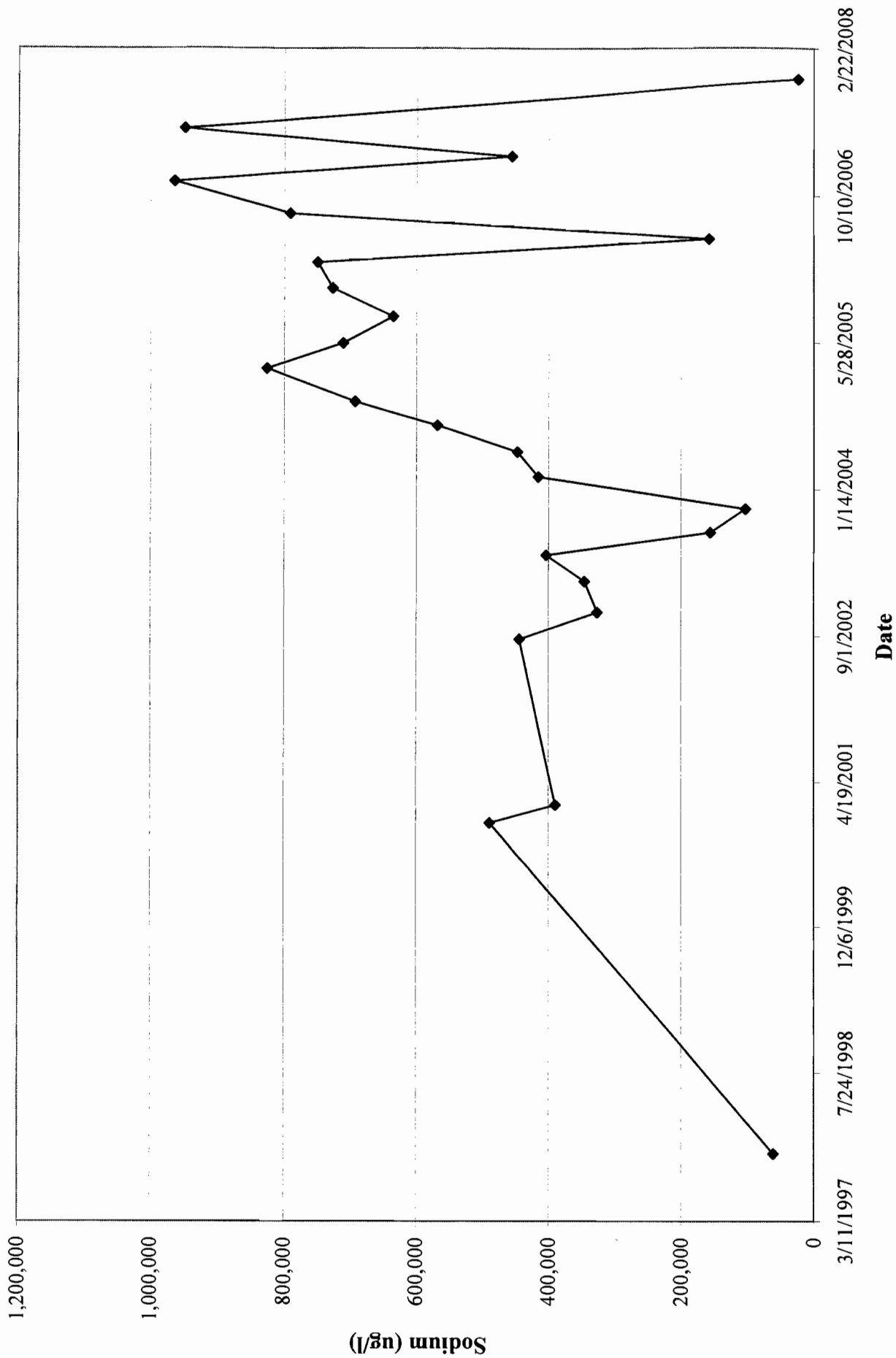
MANGANESE IN MW-01D



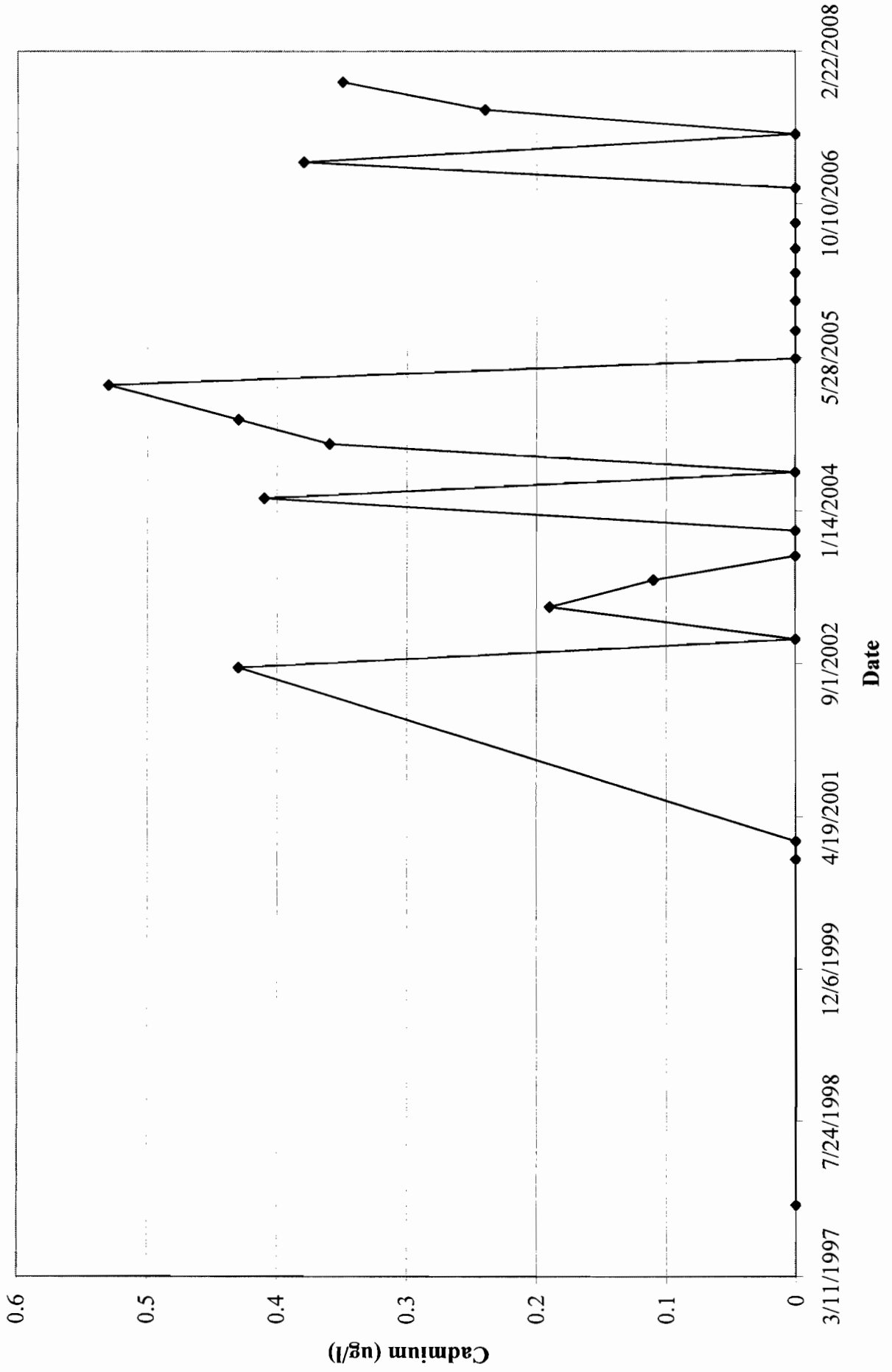
POTASSIUM IN MW-01D



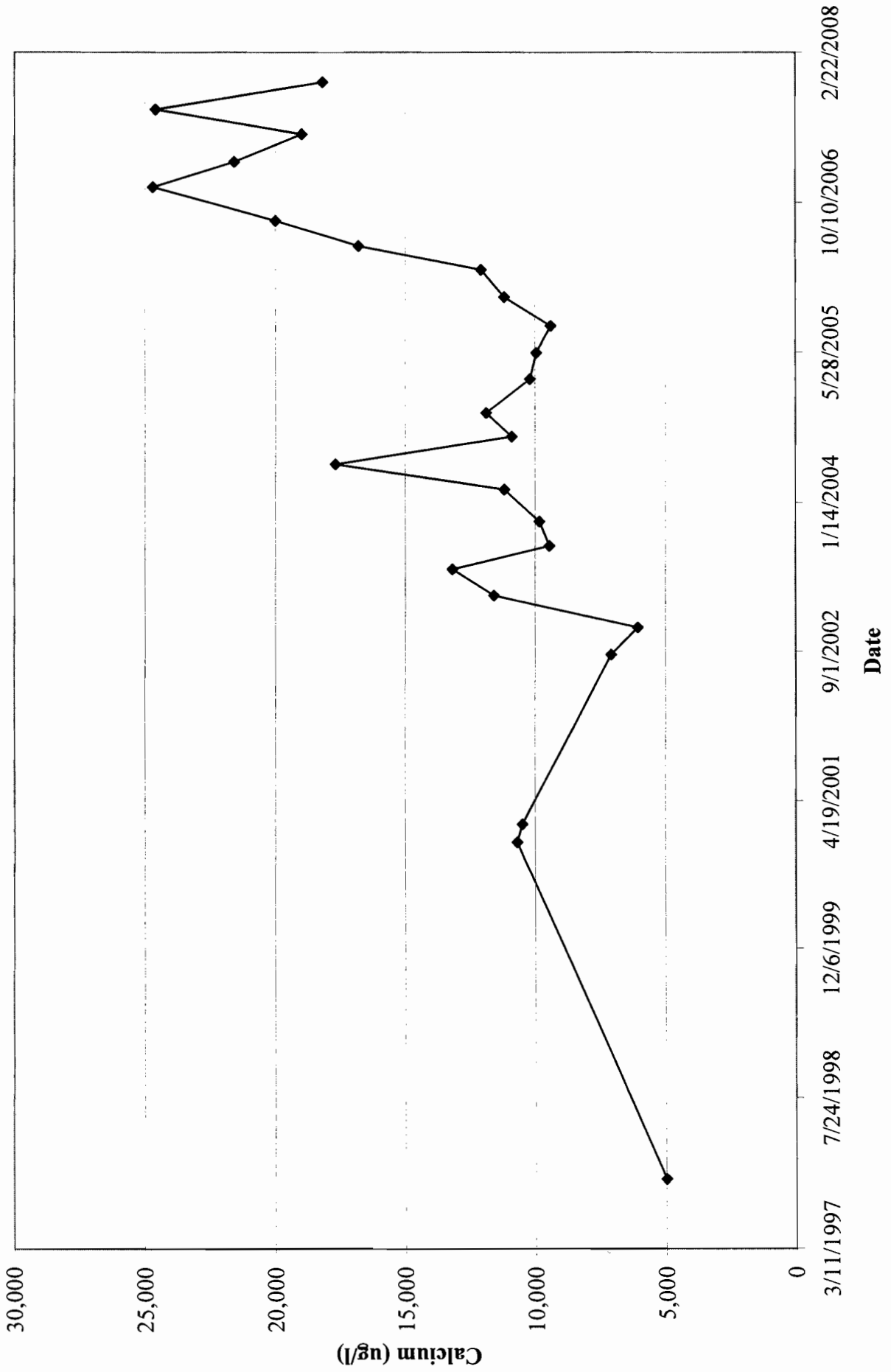
SODIUM IN MW-01D



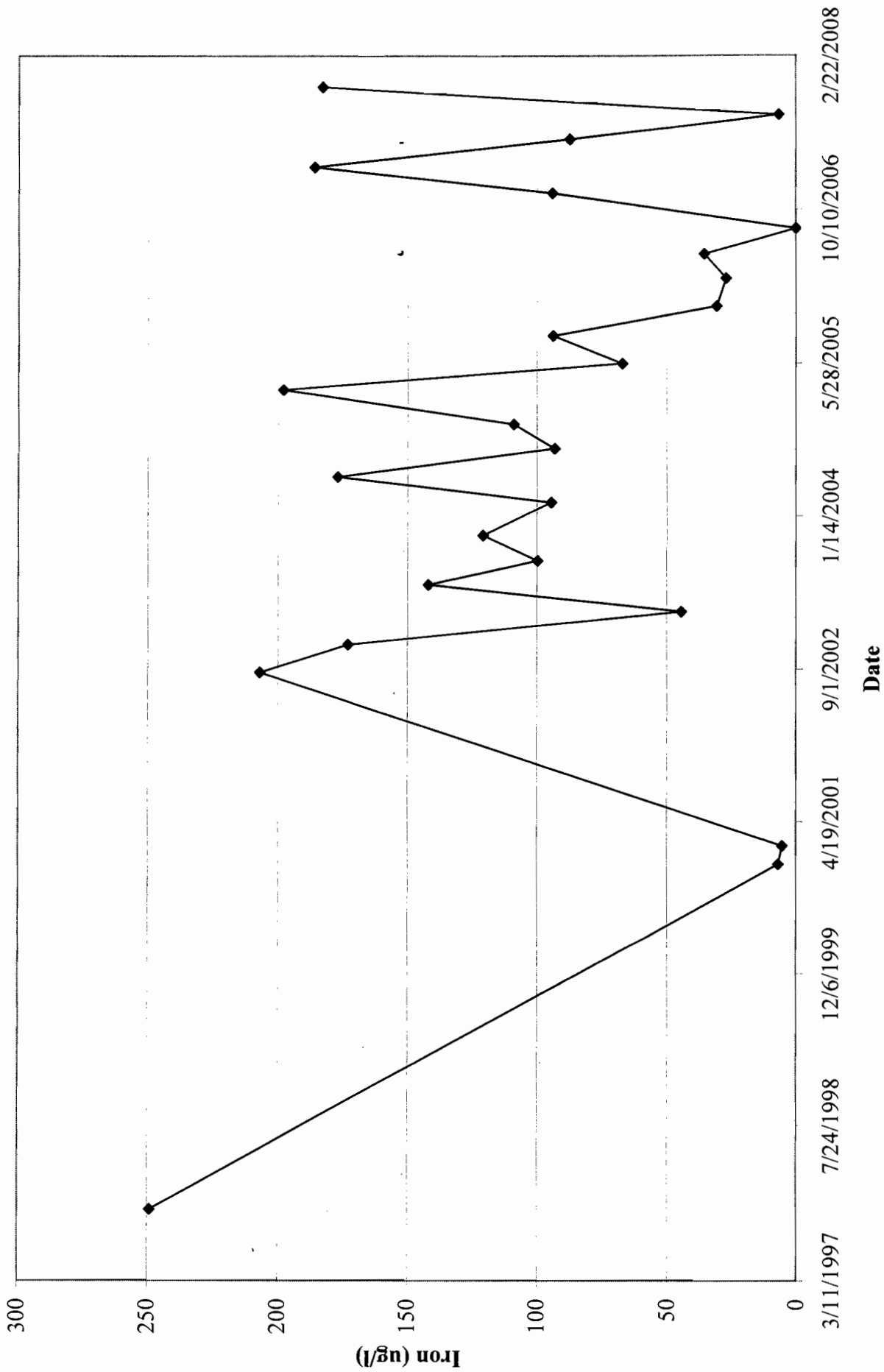
CADMIUM IN MW-02I



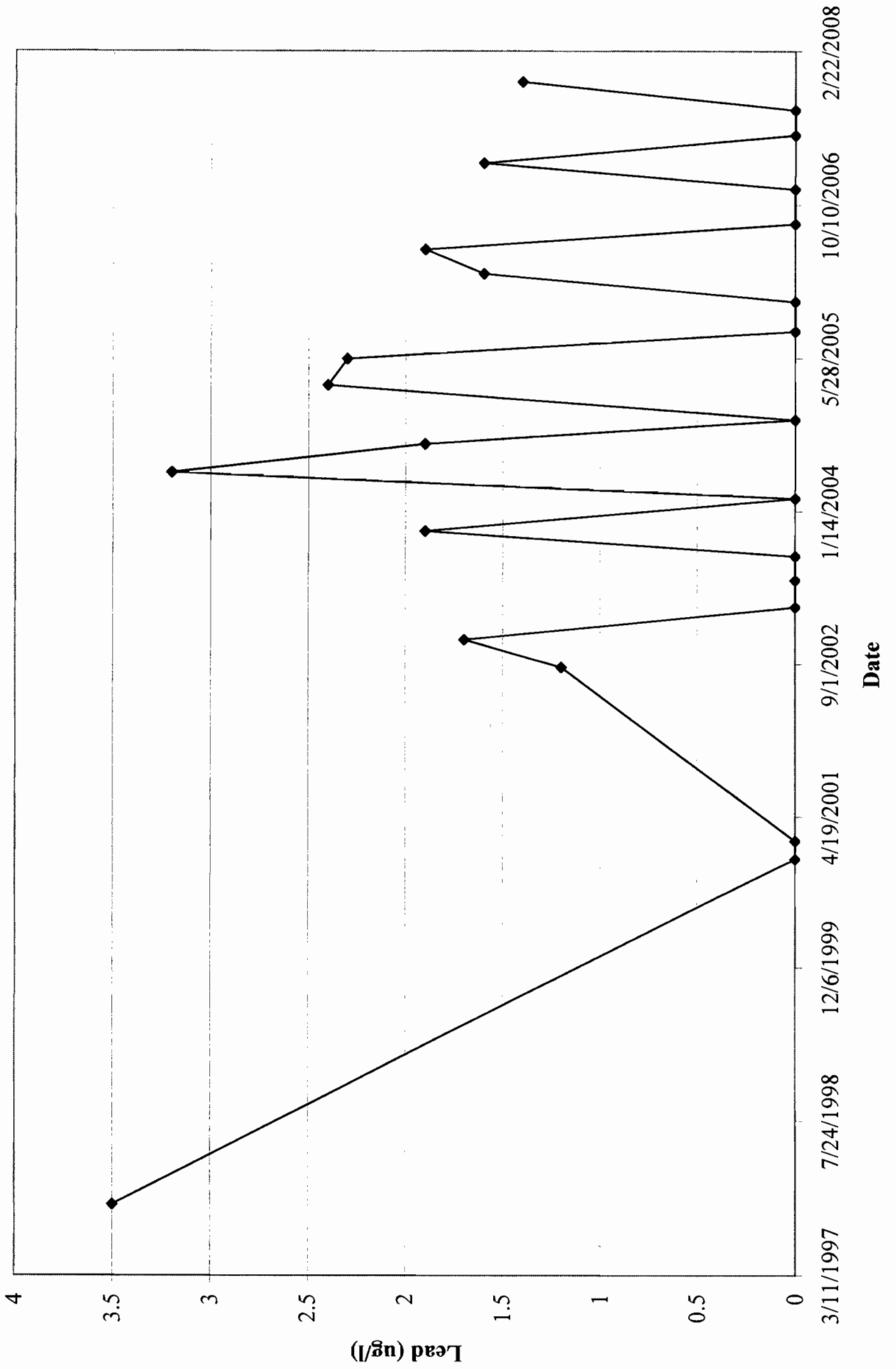
CALCIUM IN MW-021



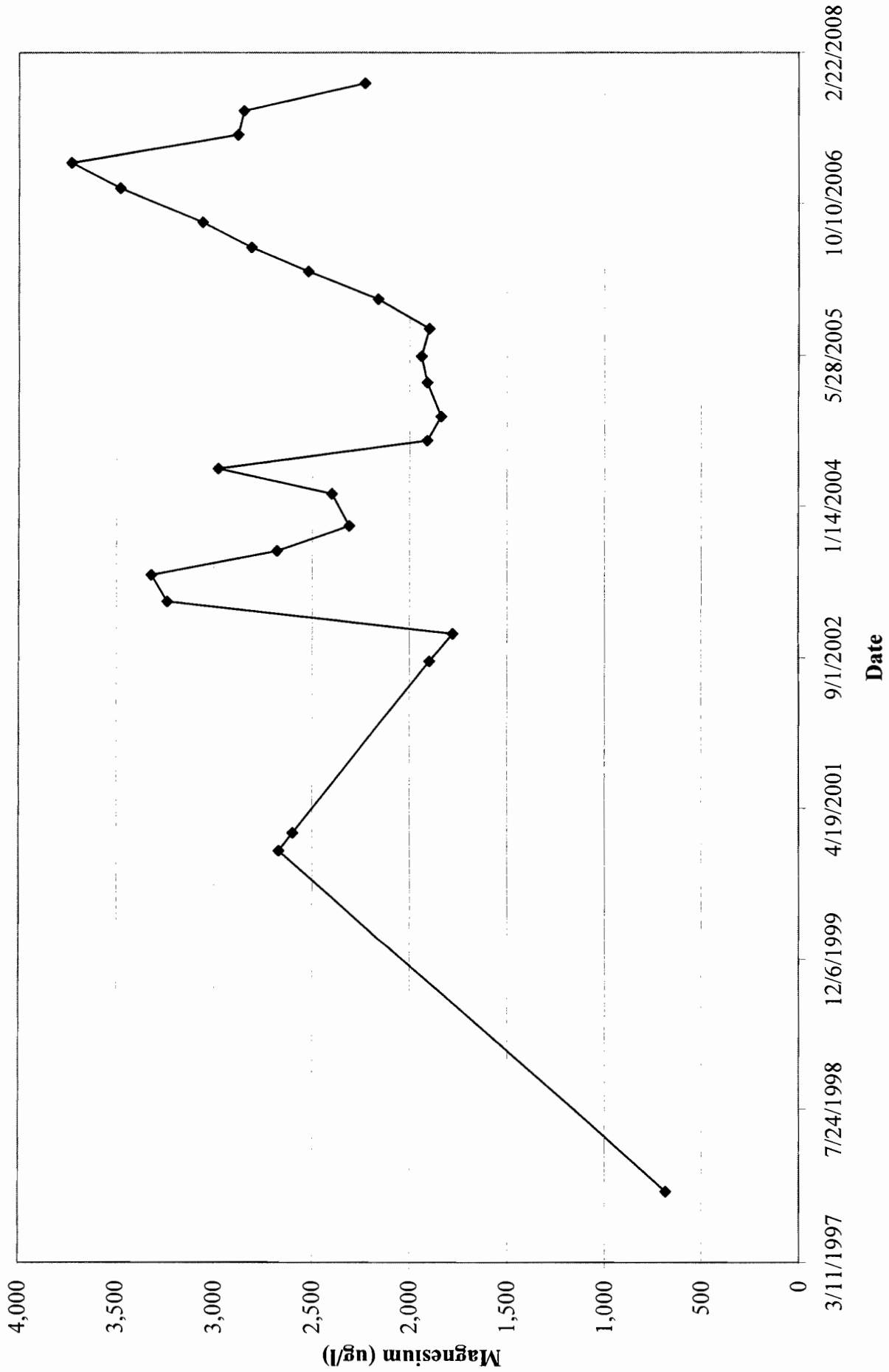
IRON IN MW-02I



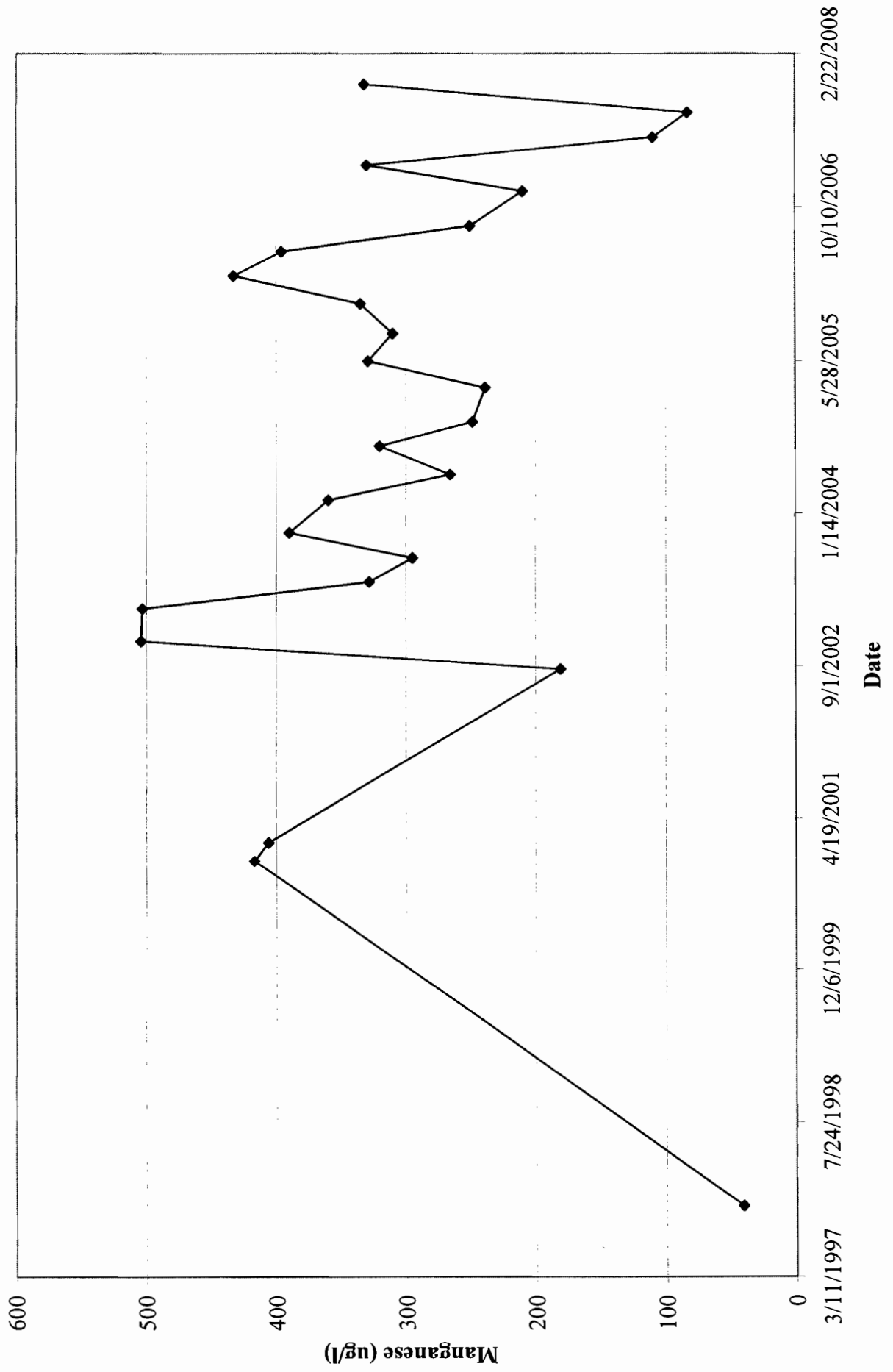
LEAD IN MW-02I



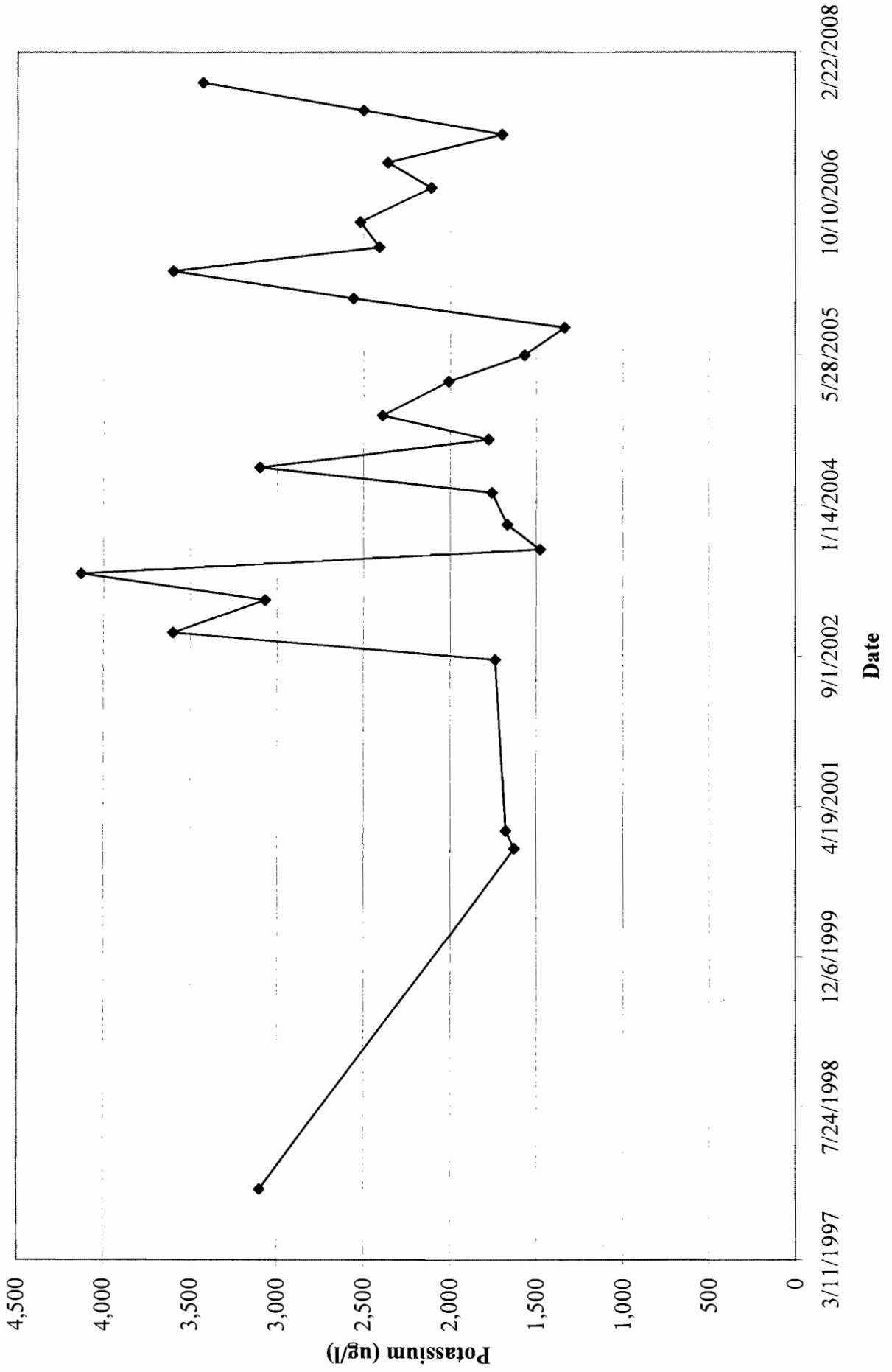
MAGNESIUM IN MW-02I



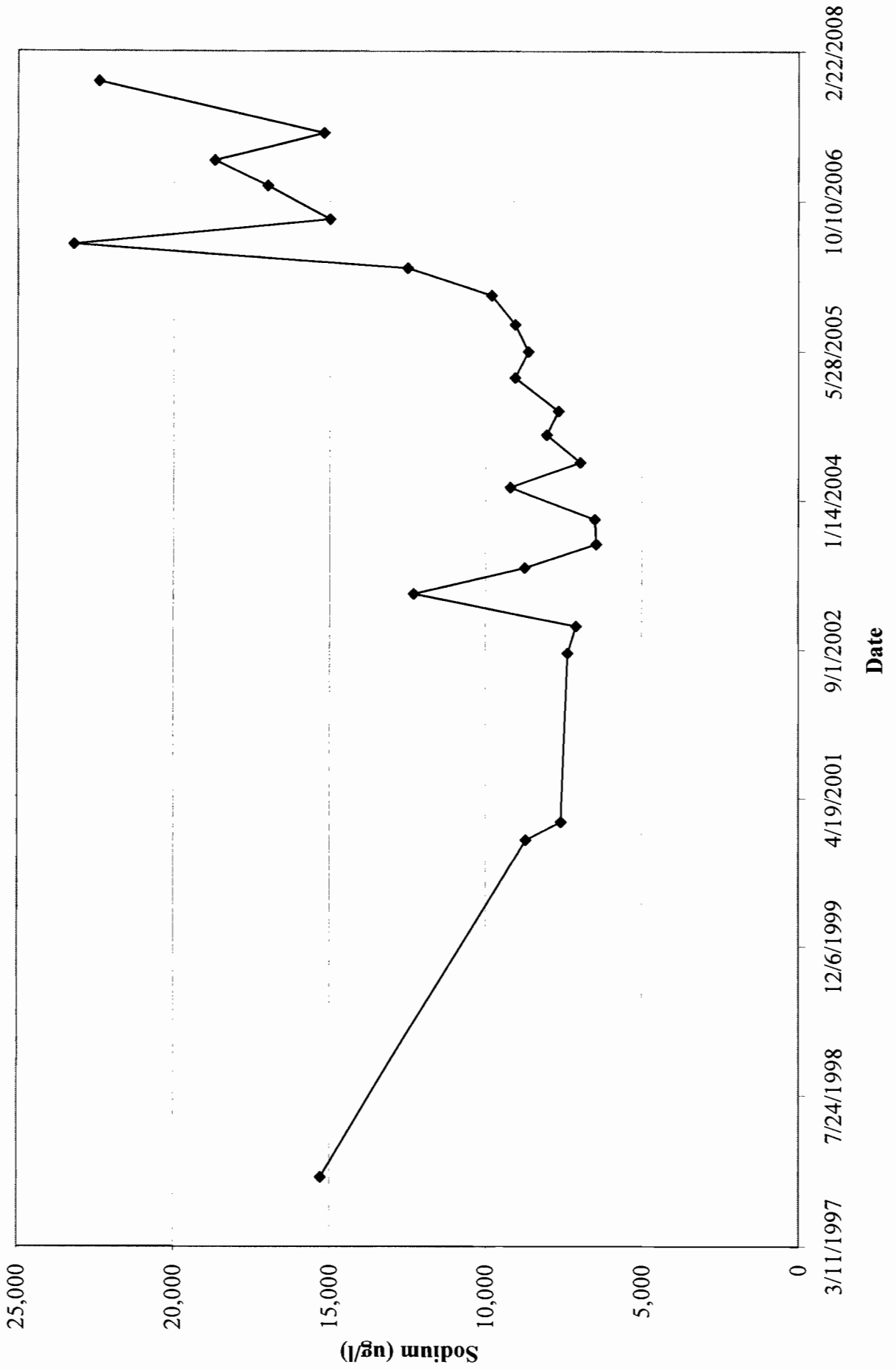
MANGANESE IN MW-02I



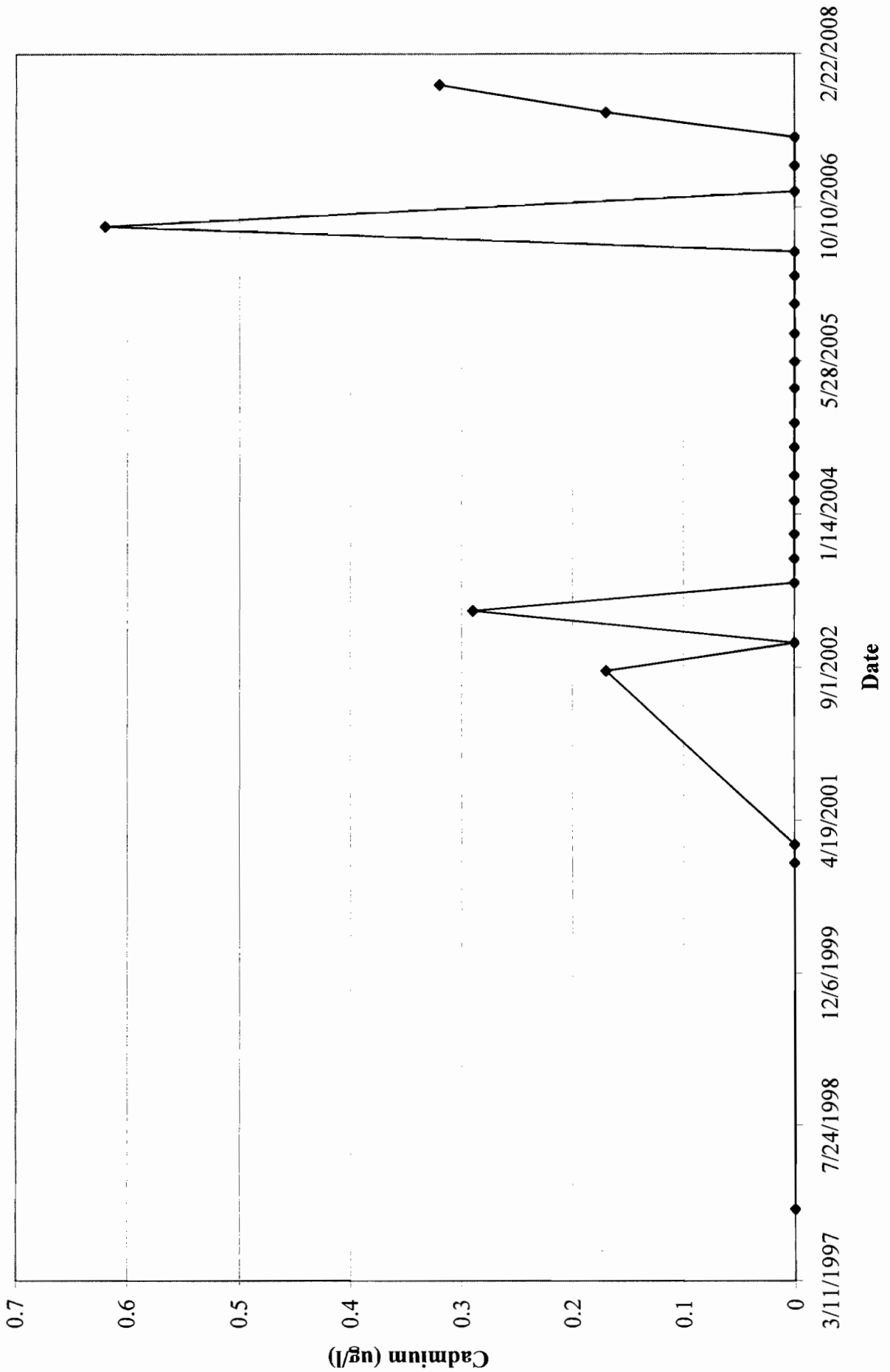
POTASSIUM IN MW-02I



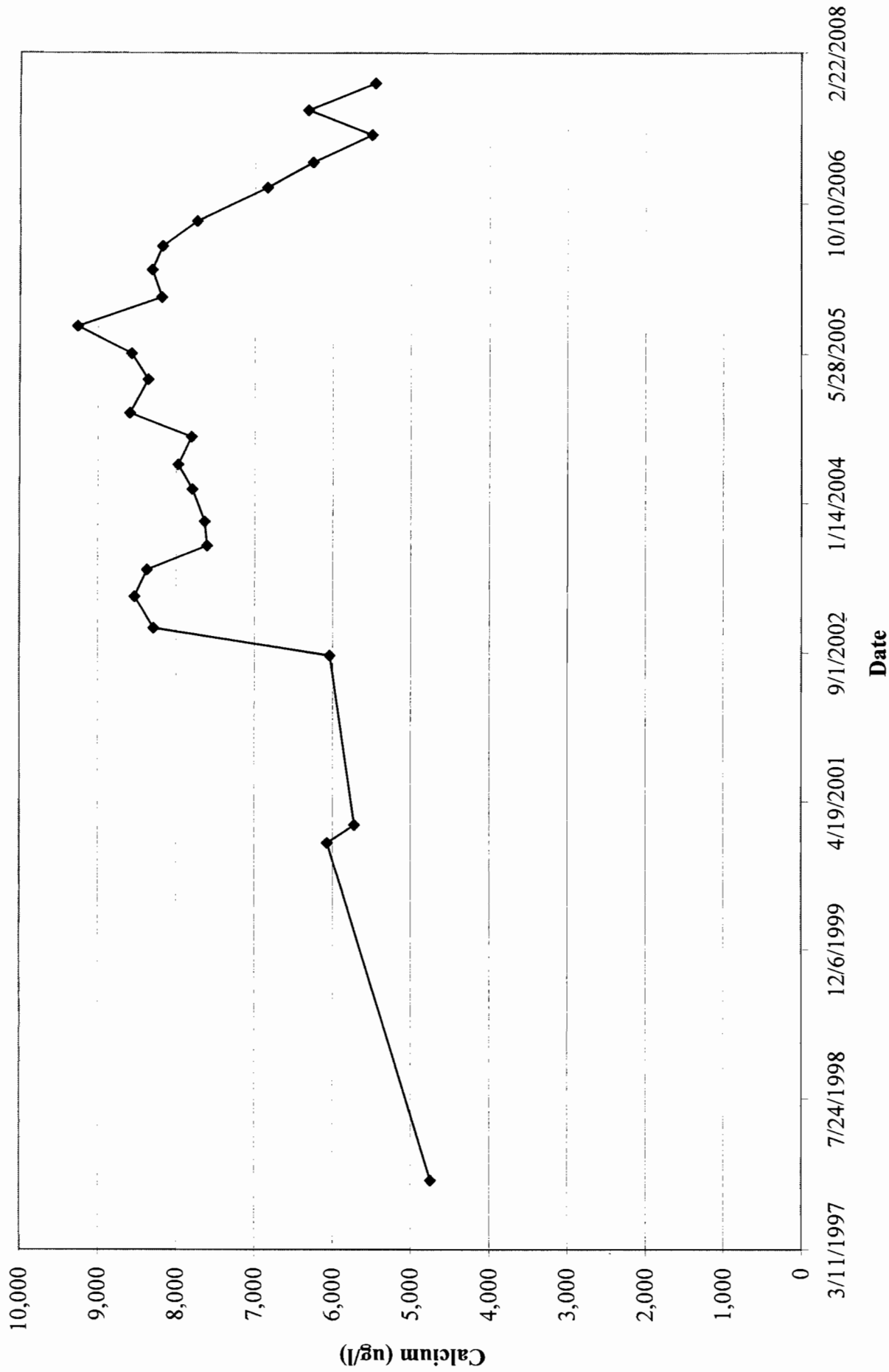
SODIUM IN MW-02I



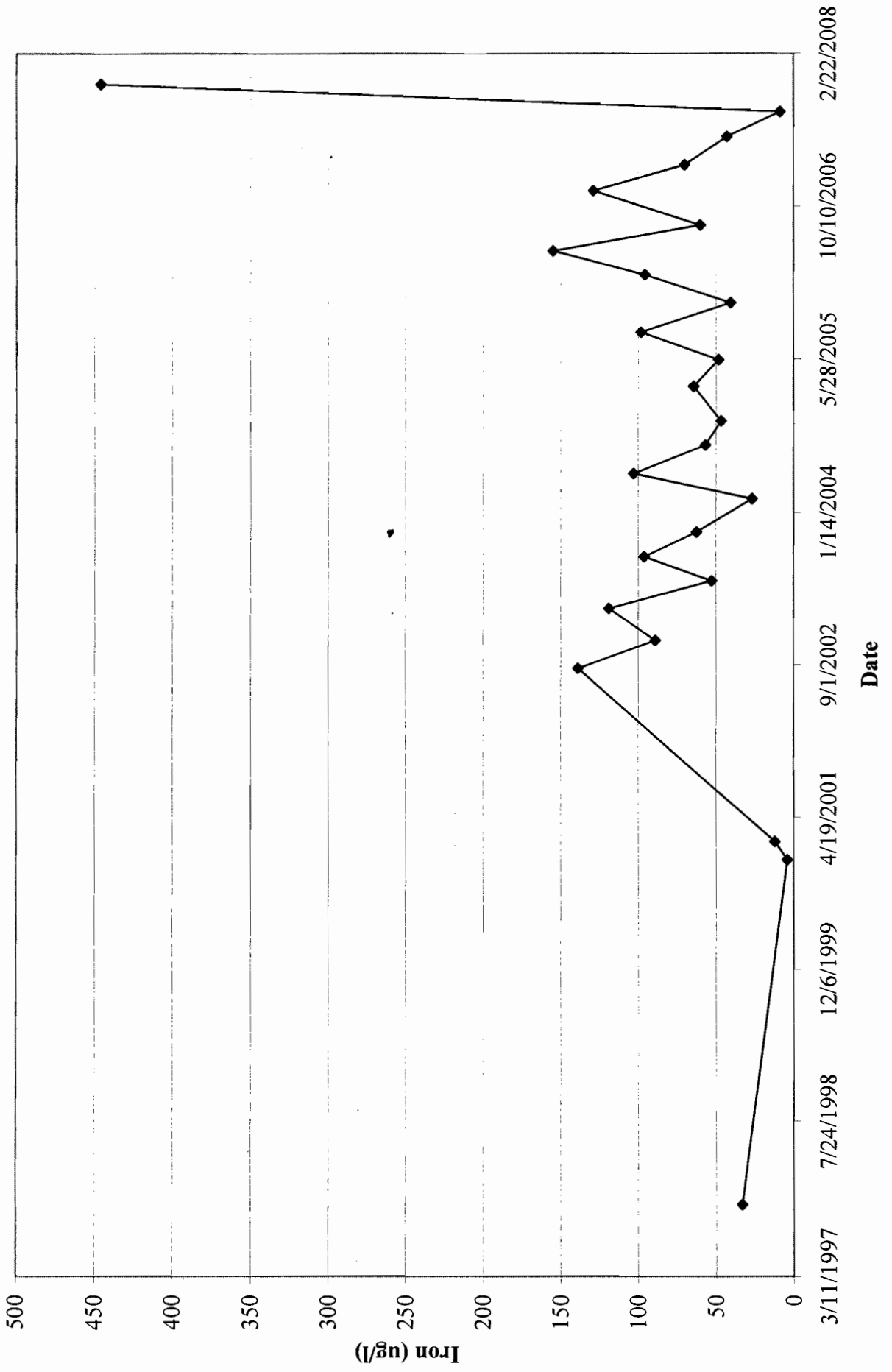
CADMIUM IN MW-02D



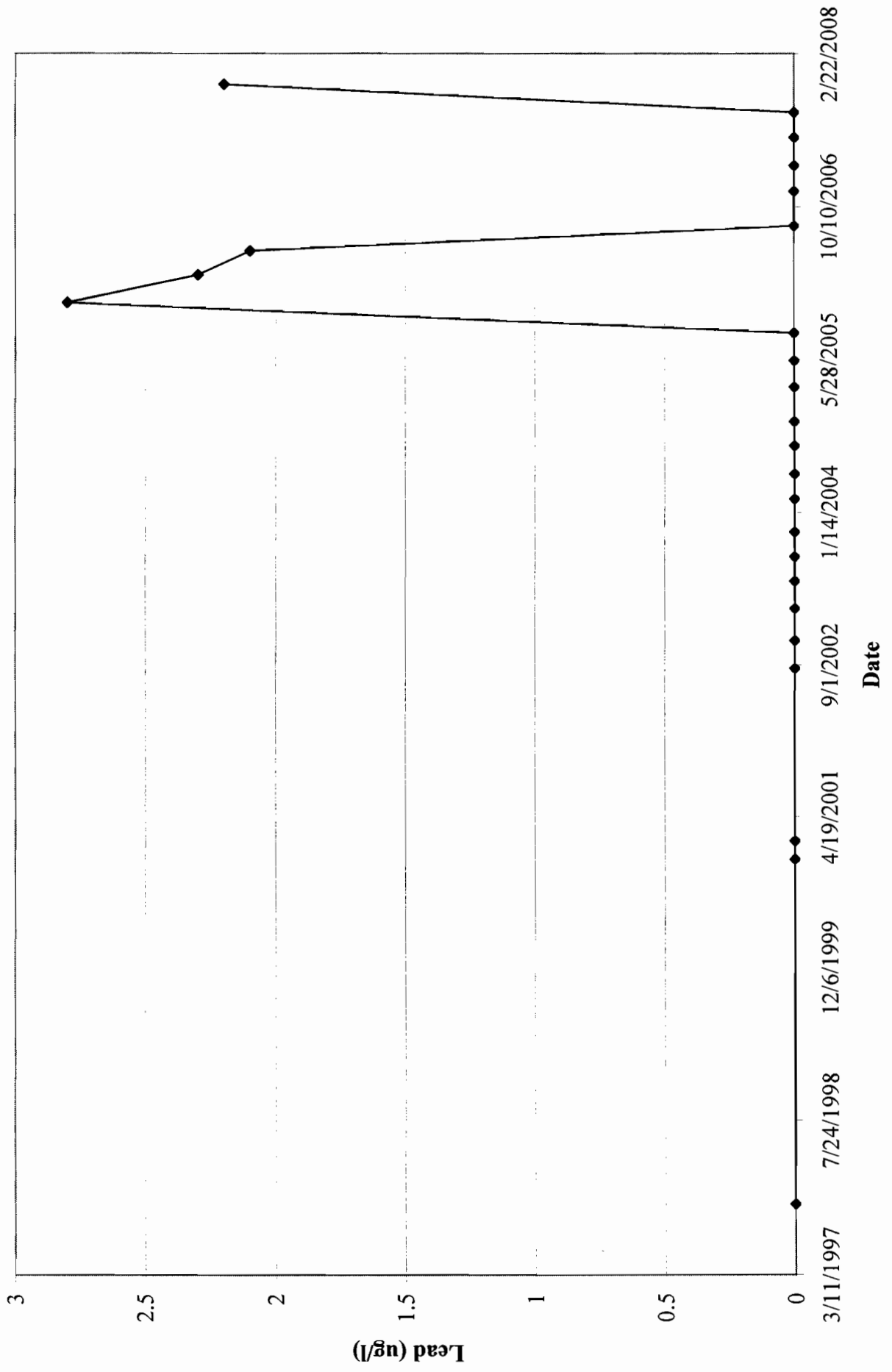
CALCIUM IN MW-02D



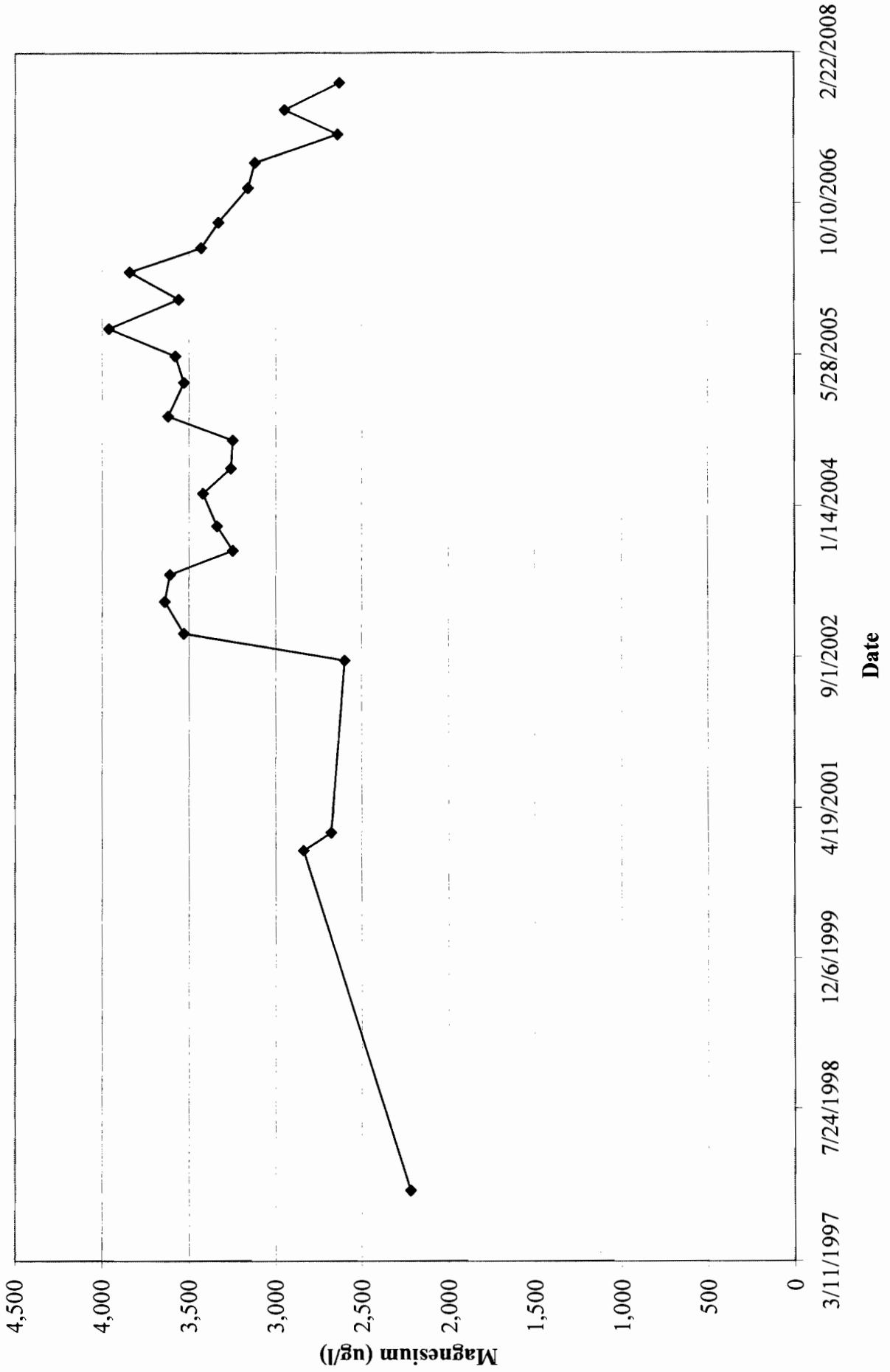
IRON IN MW-02D



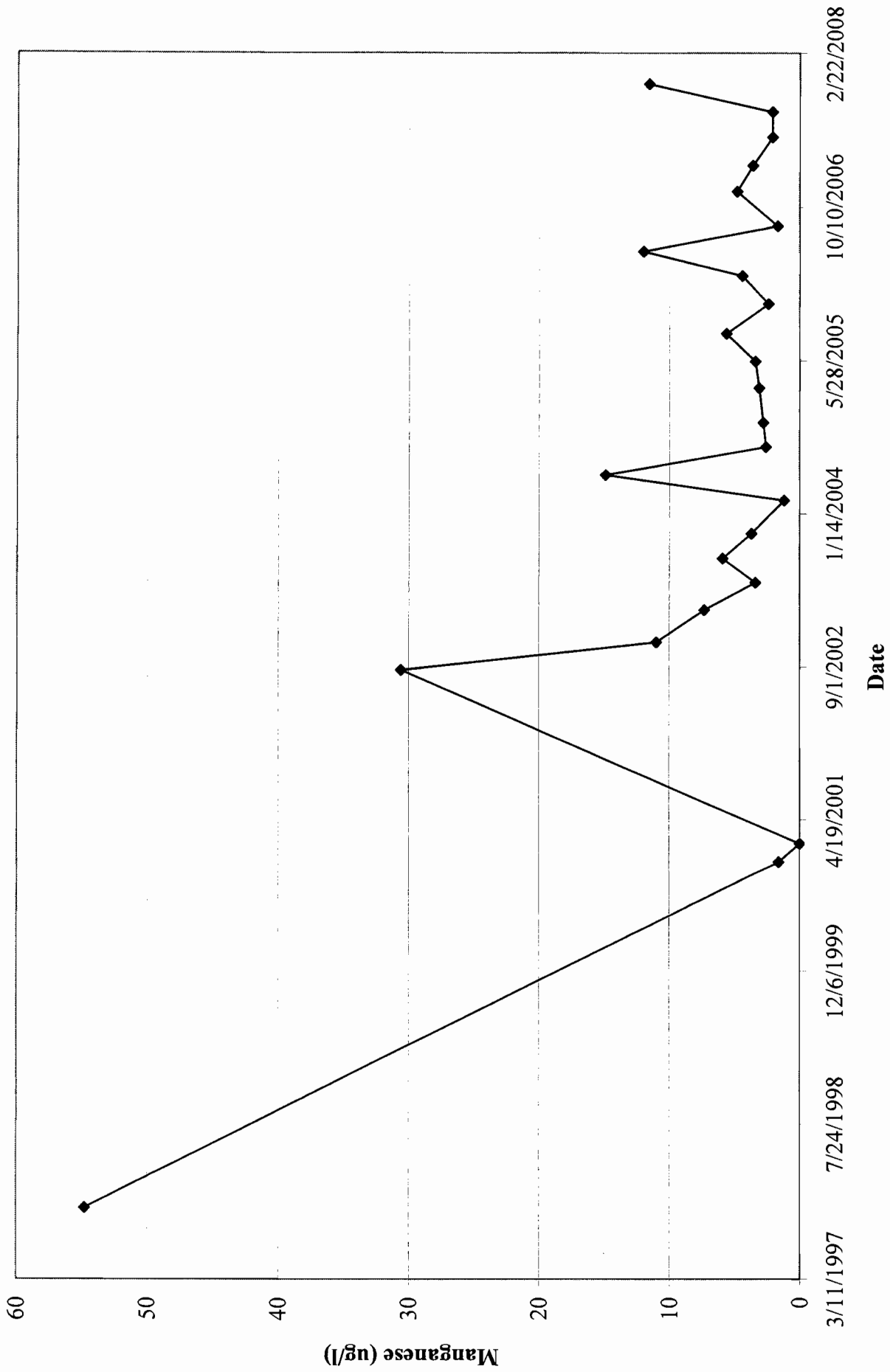
LEAD IN MW-02D



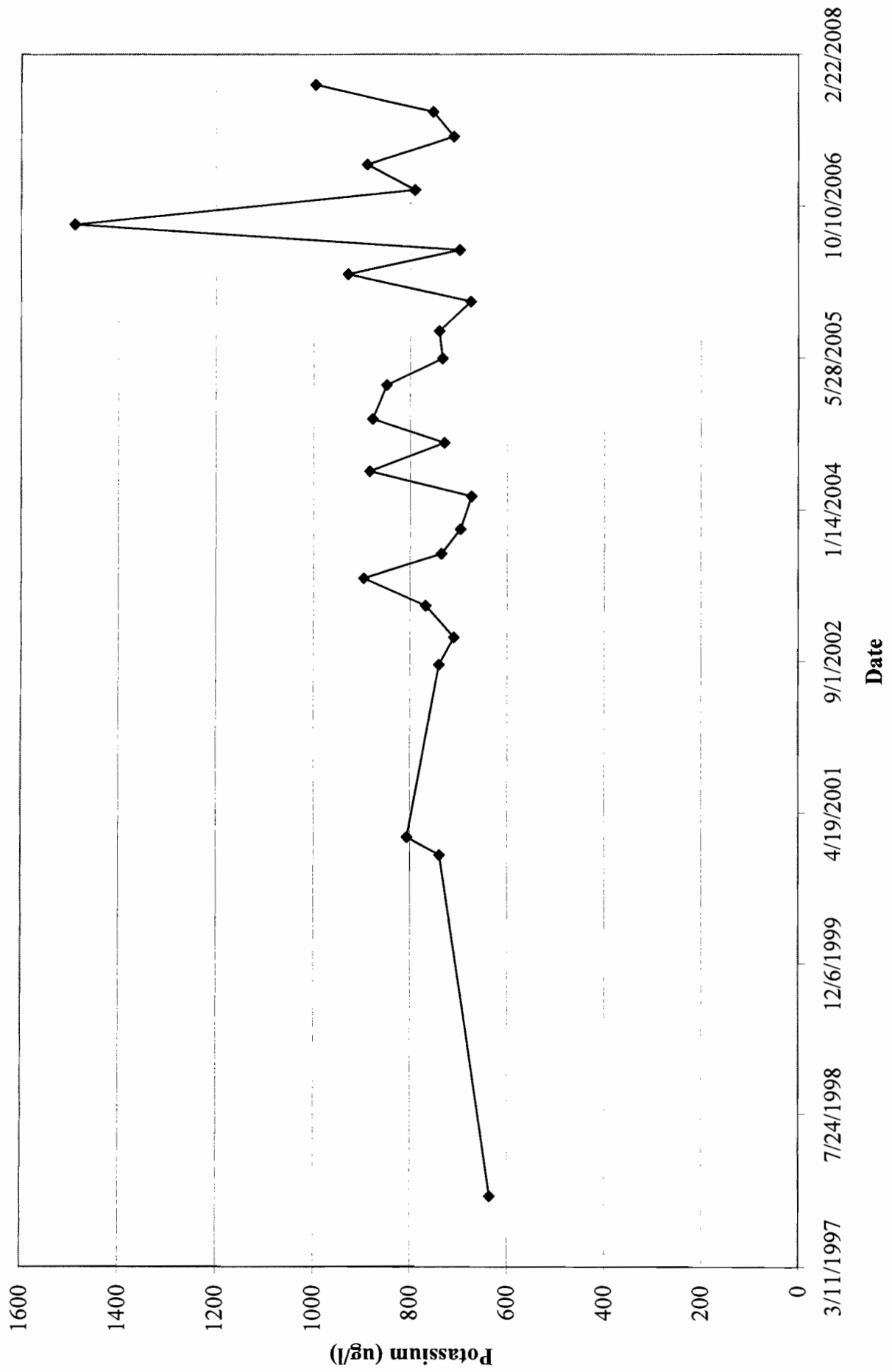
MAGNESIUM IN MW-02D



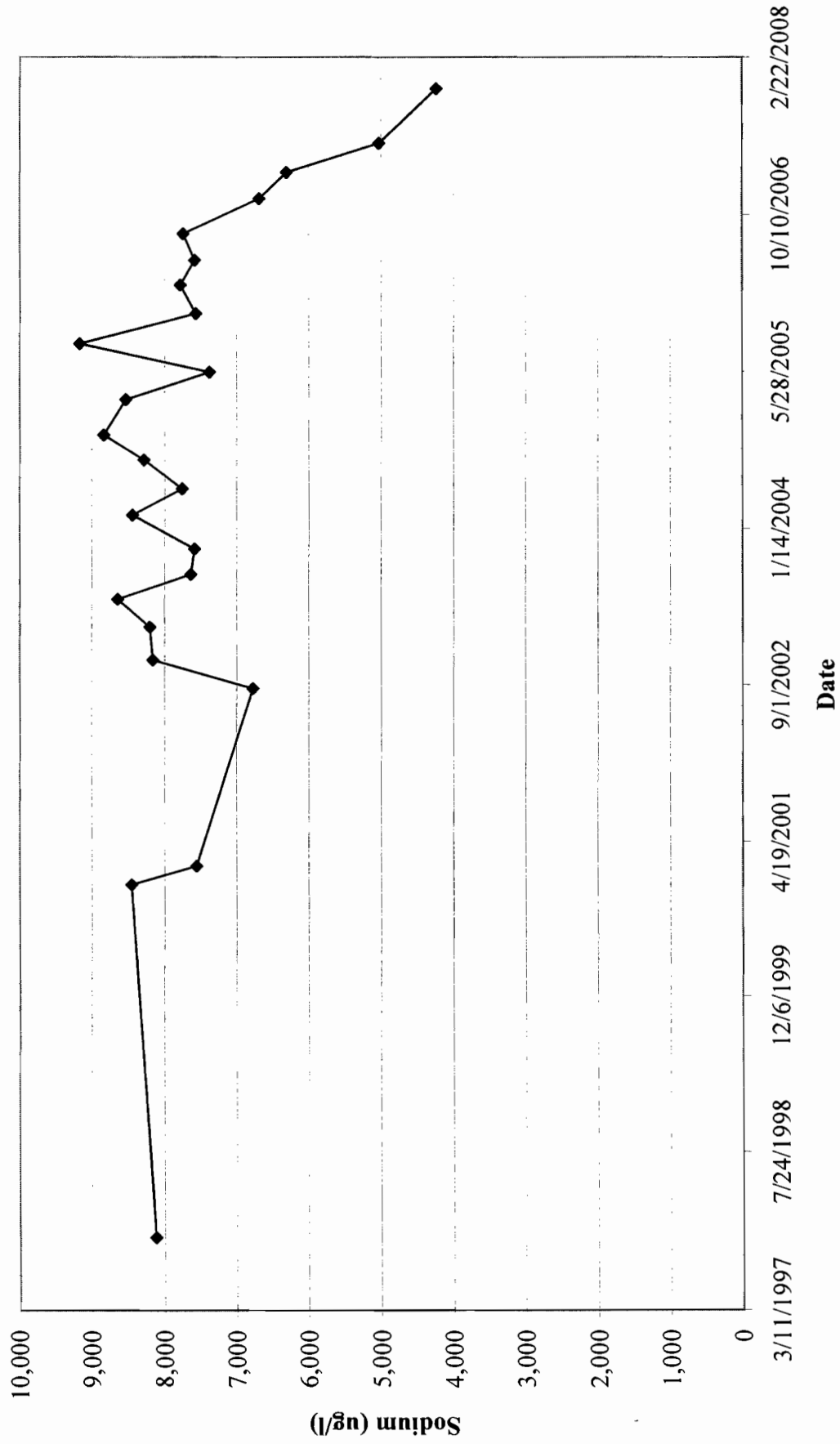
MANGANESE IN MW-02D



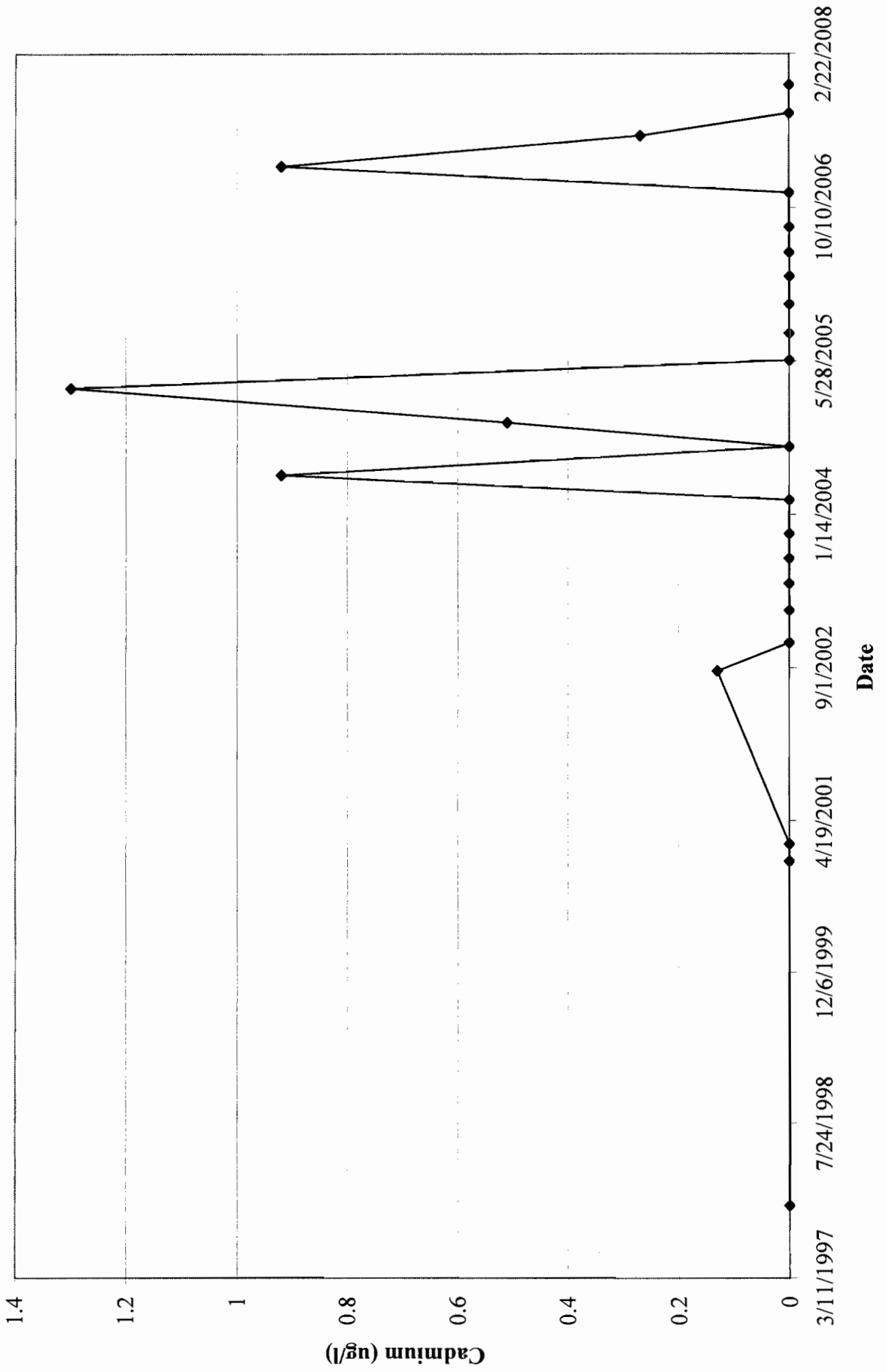
POTASSIUM IN MW-02D



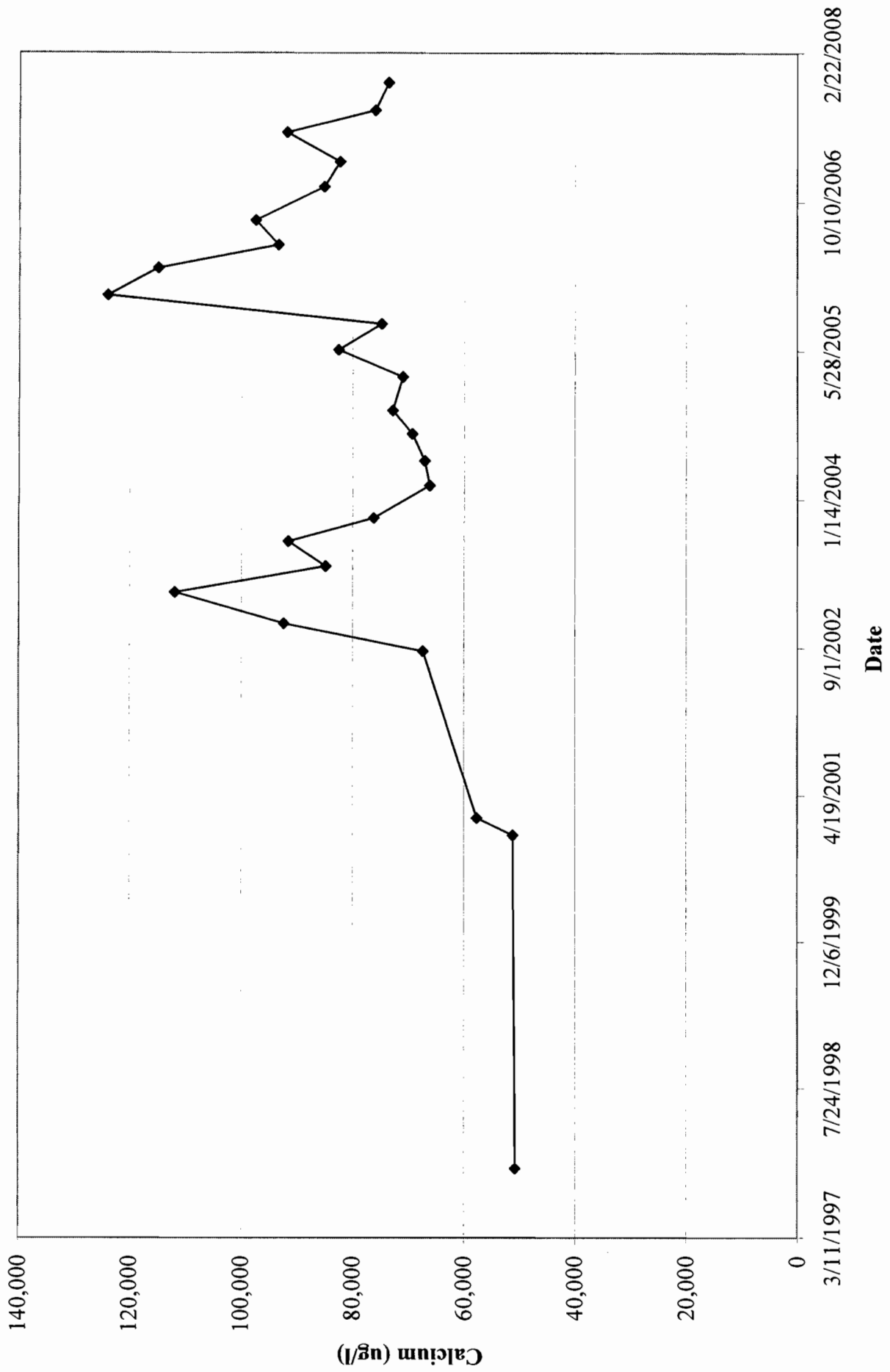
SODIUM IN MW-02D



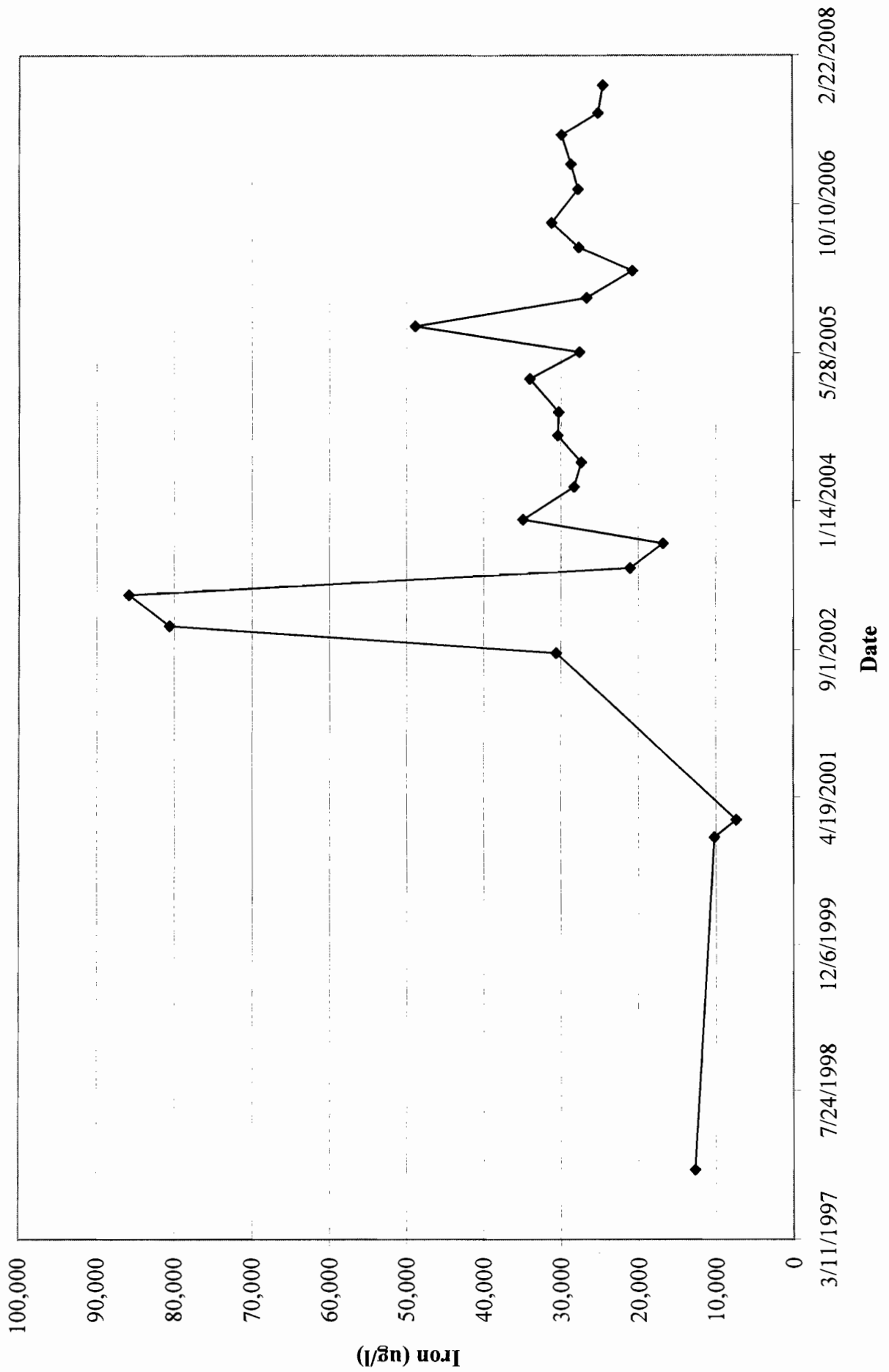
CADMIUM IN MW-03S



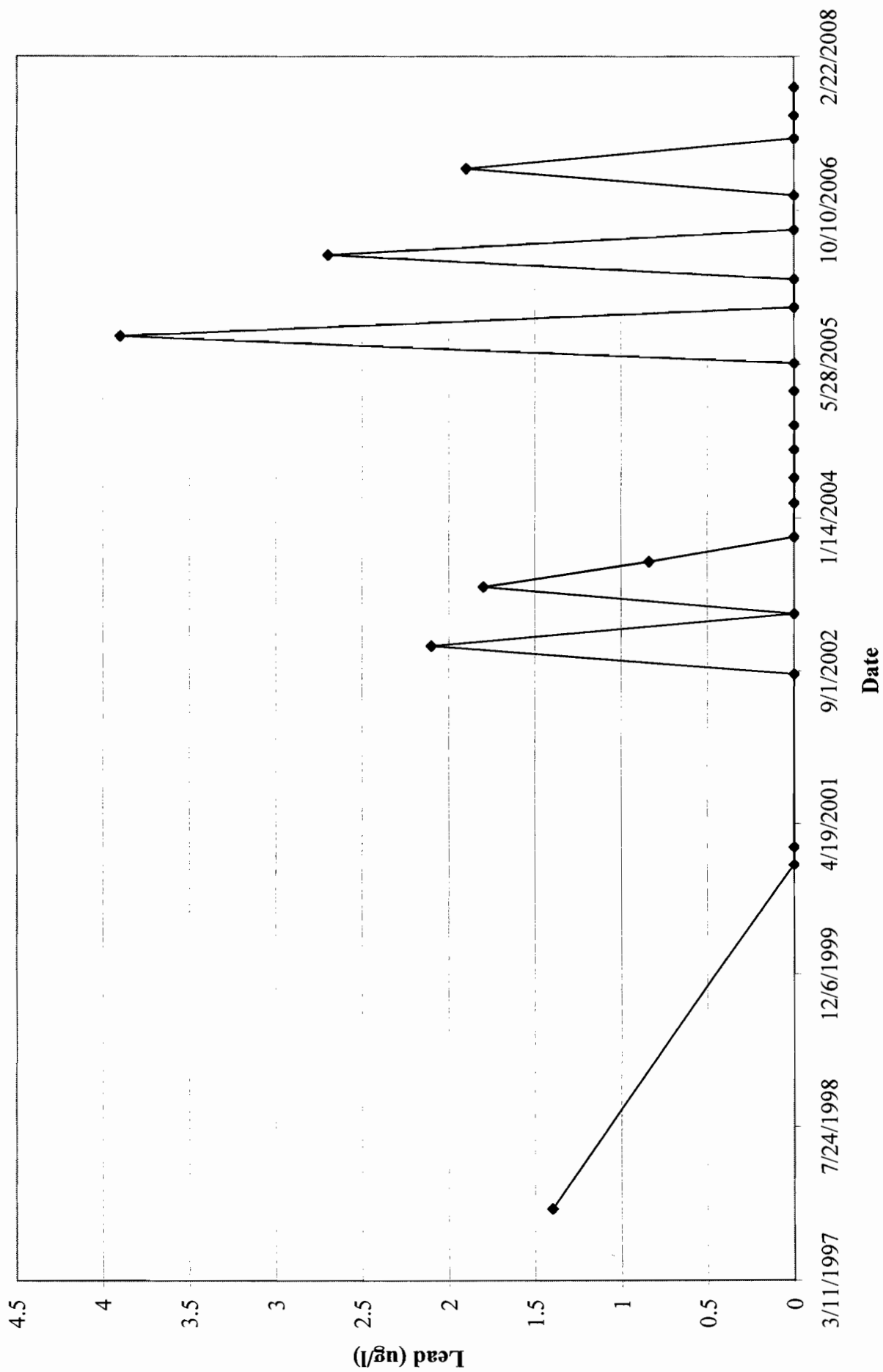
CALCIUM IN MW-03S



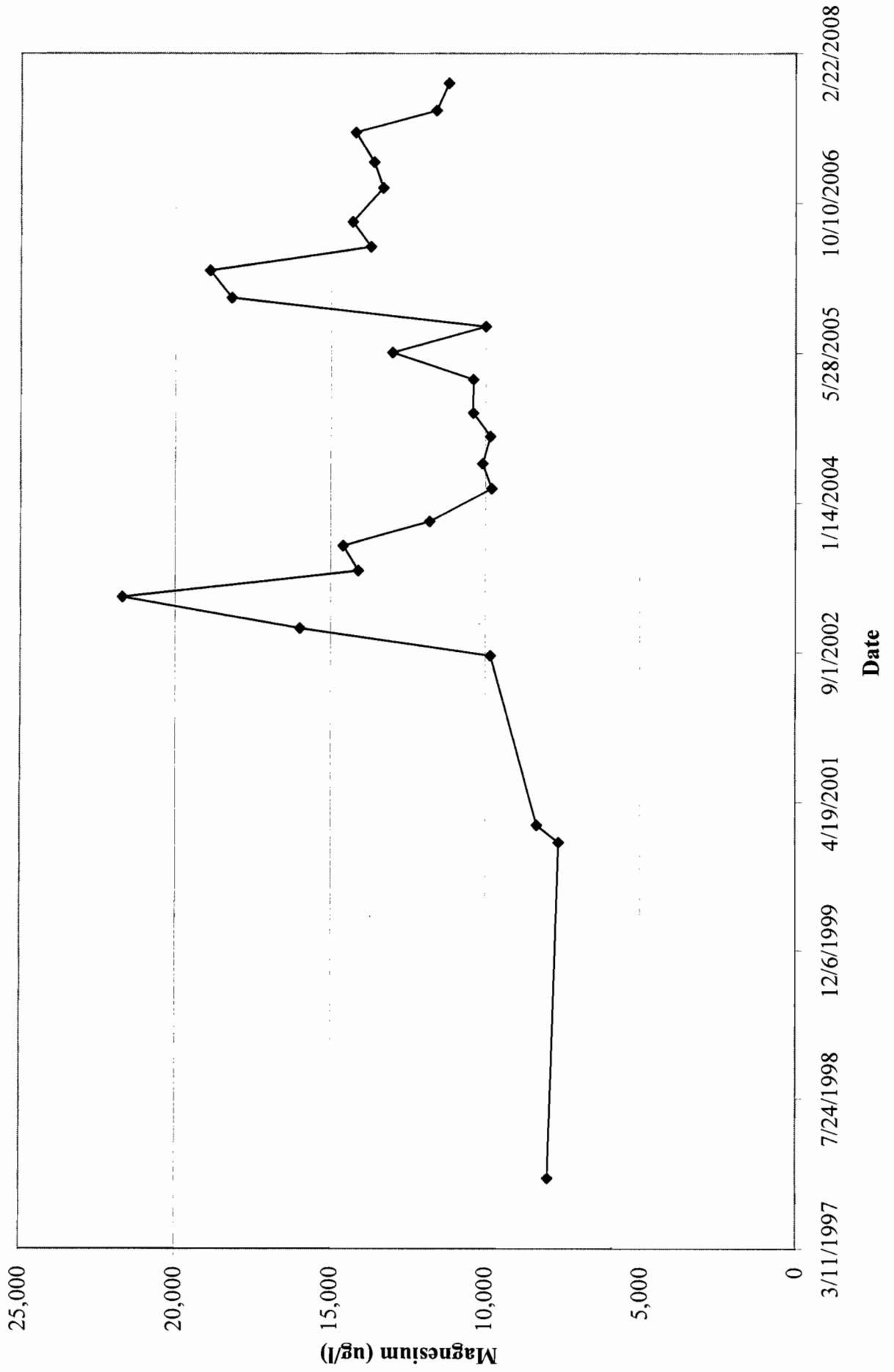
IRON IN MW-03S



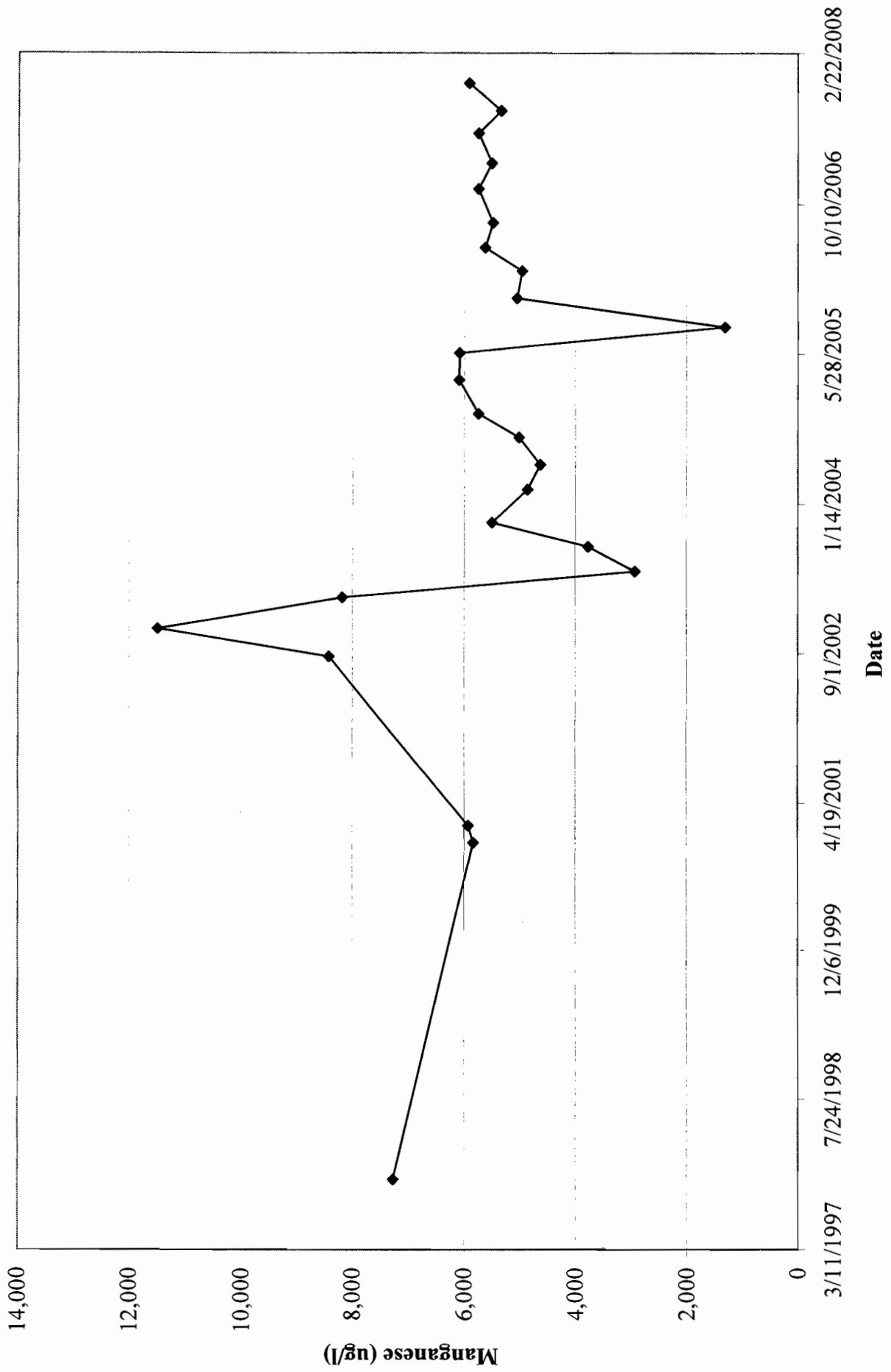
LEAD IN MW-03S



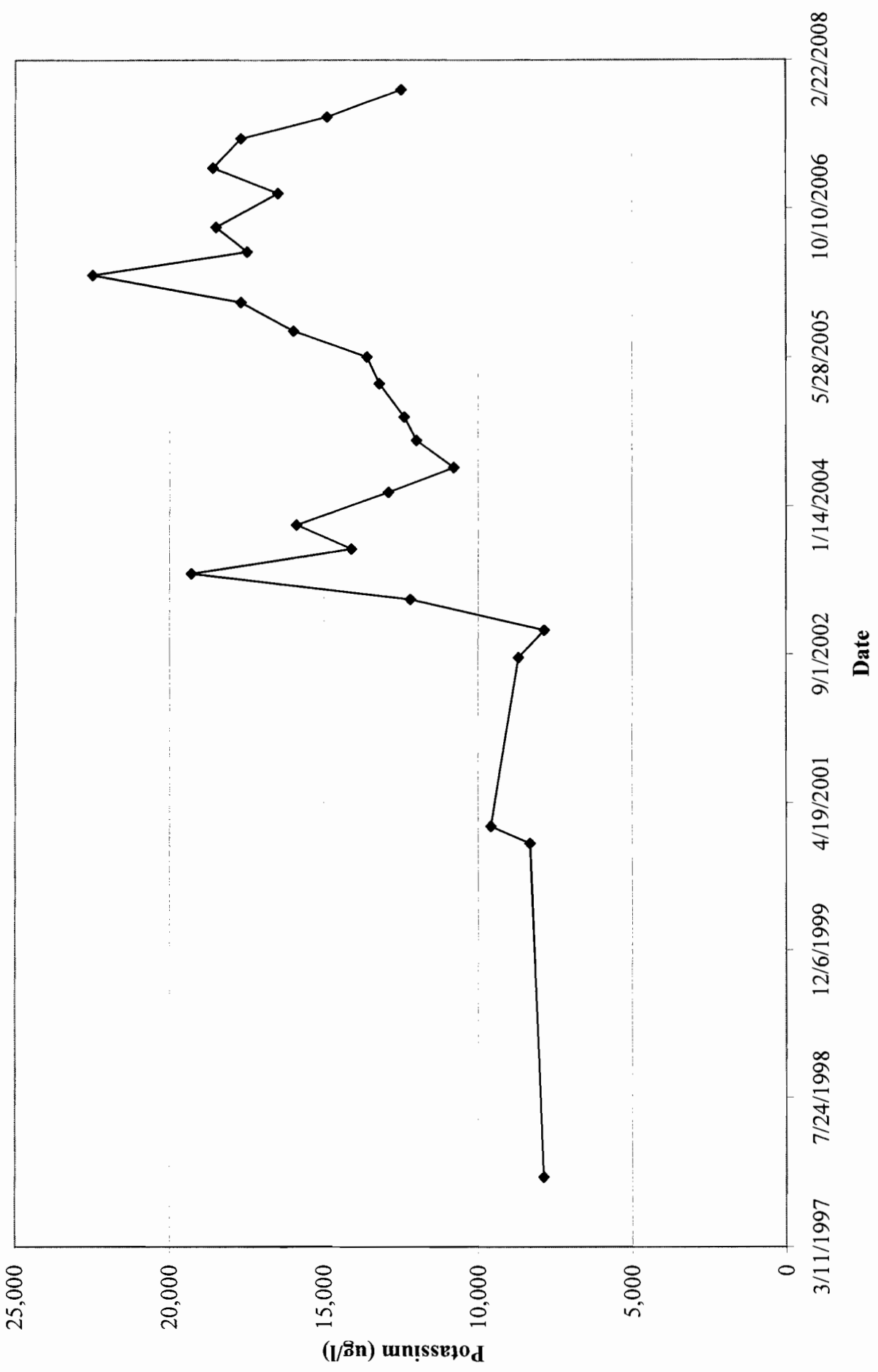
MAGNESIUM IN MW-03S



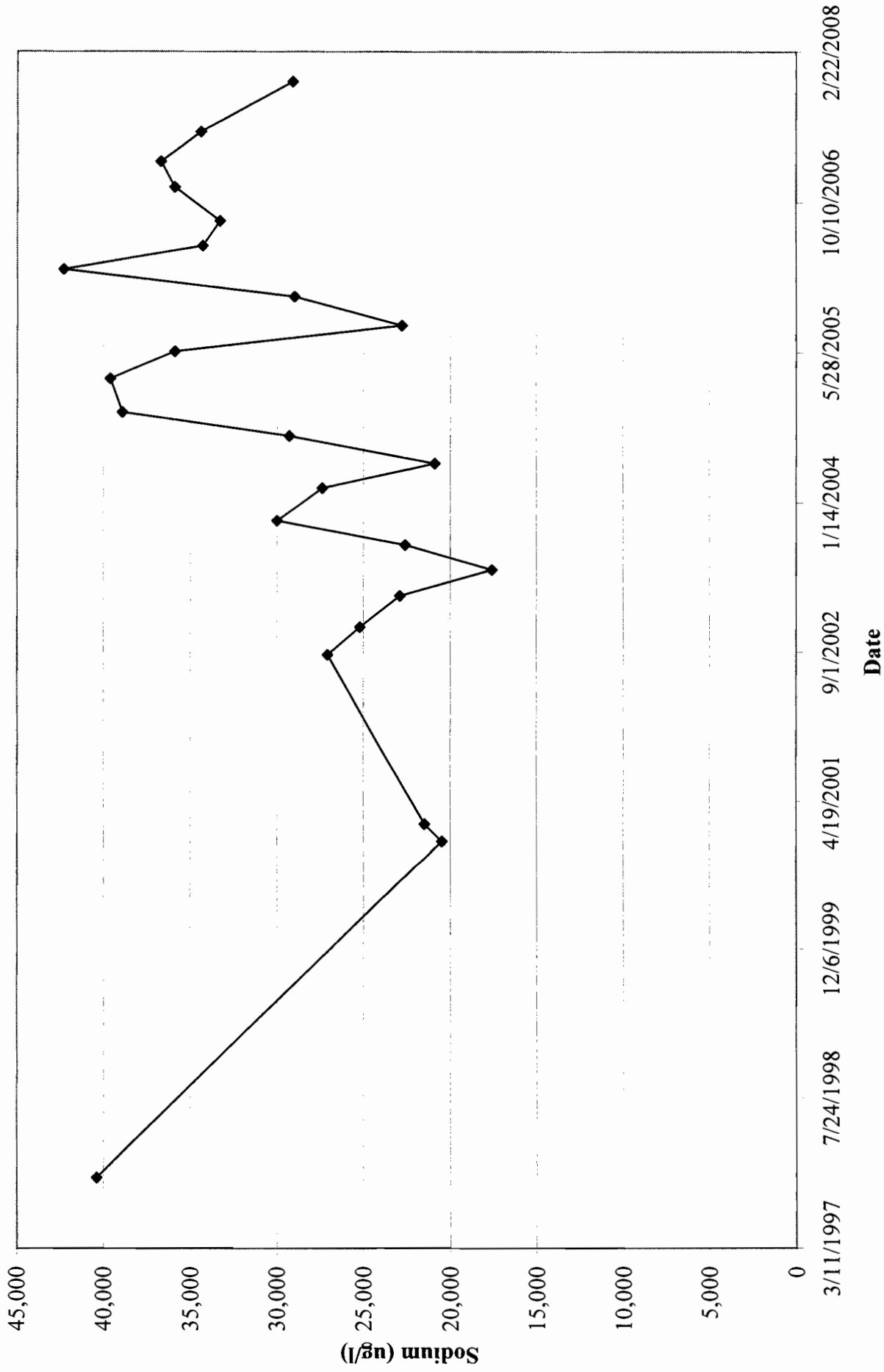
MANGANESE IN MW-03S



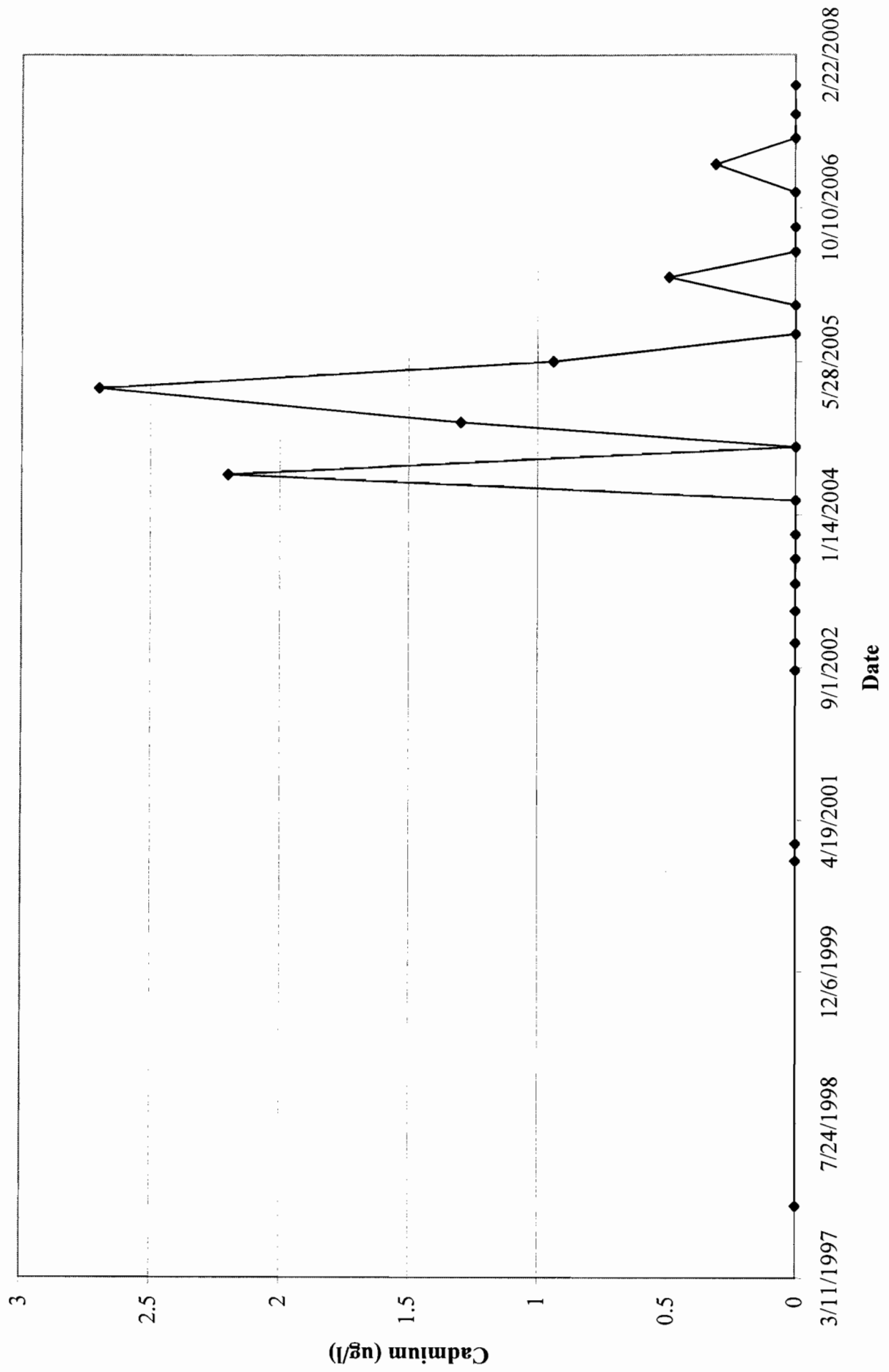
POTASSIUM IN MW-03S



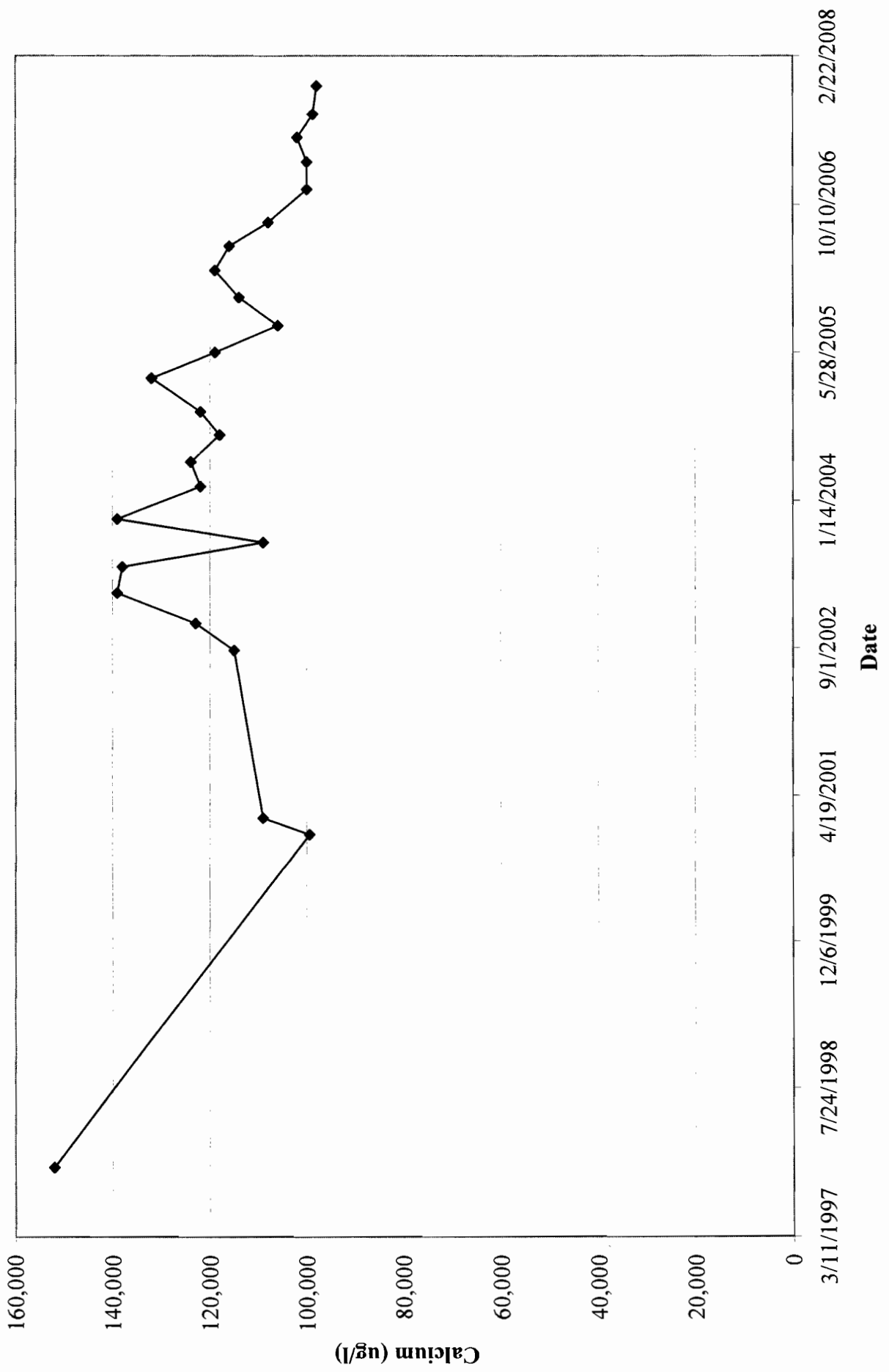
SODIUM IN MW-03S



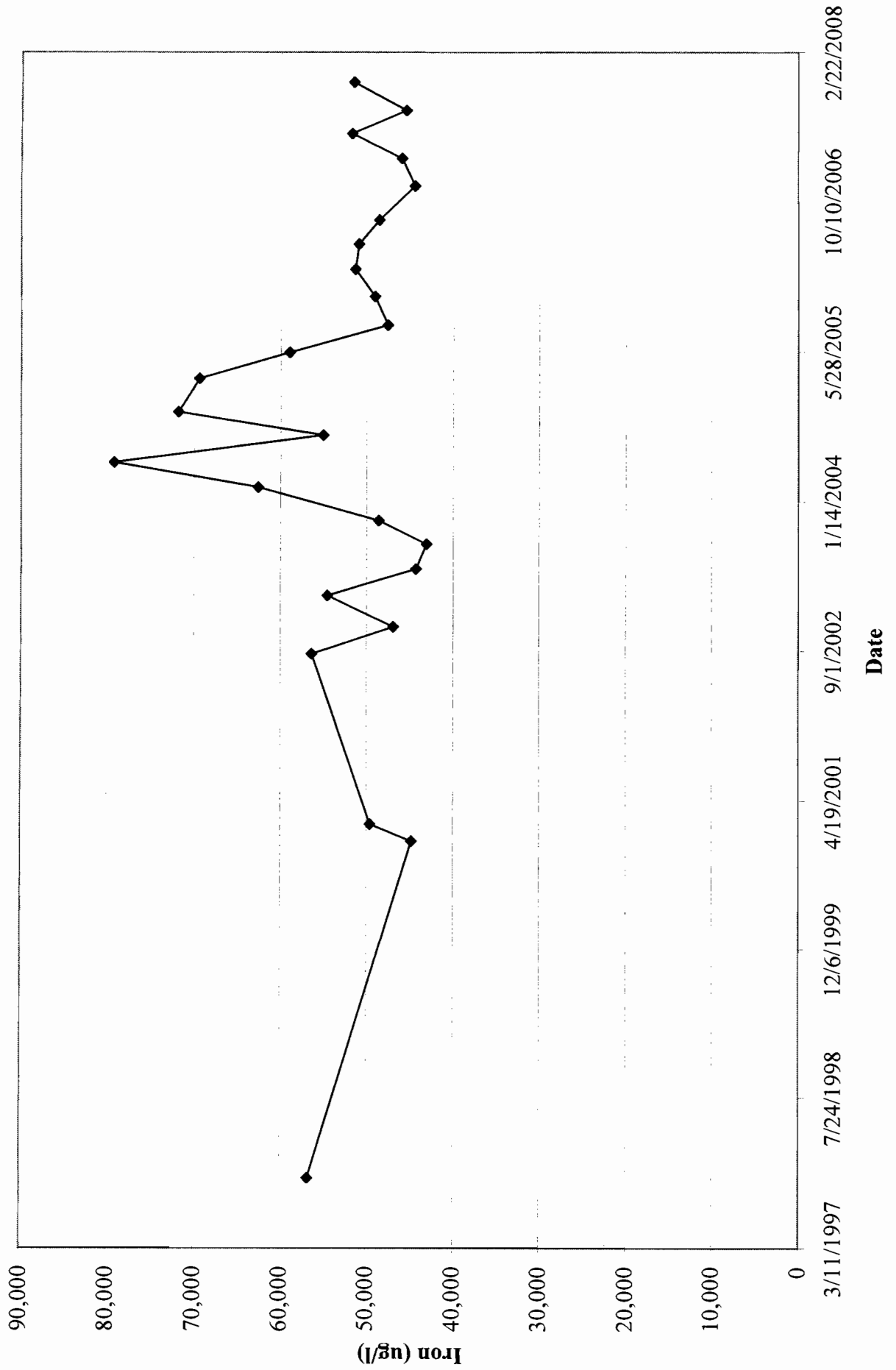
CADMIUM IN MW-04S



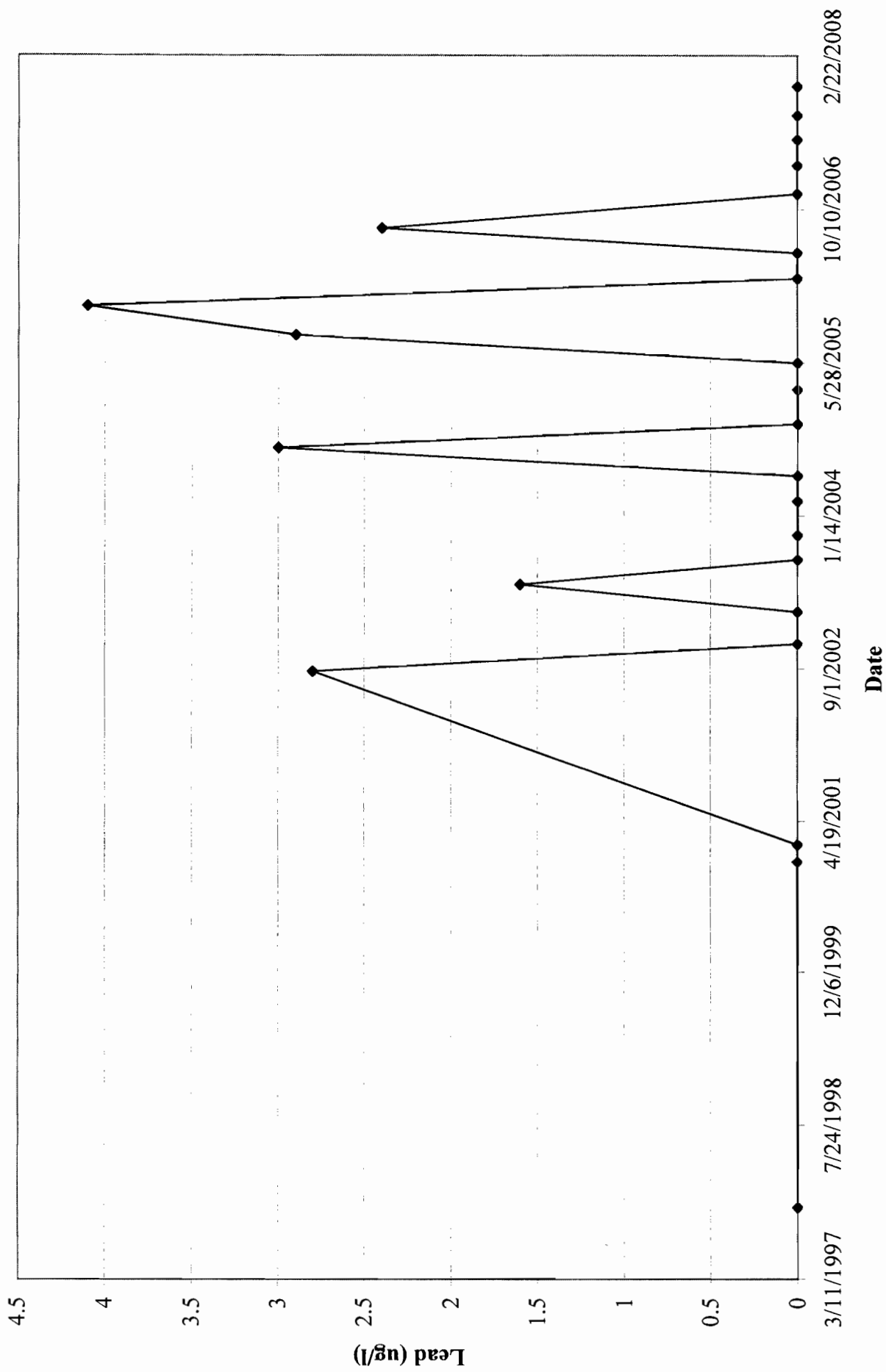
CALCIUM IN MW-04S



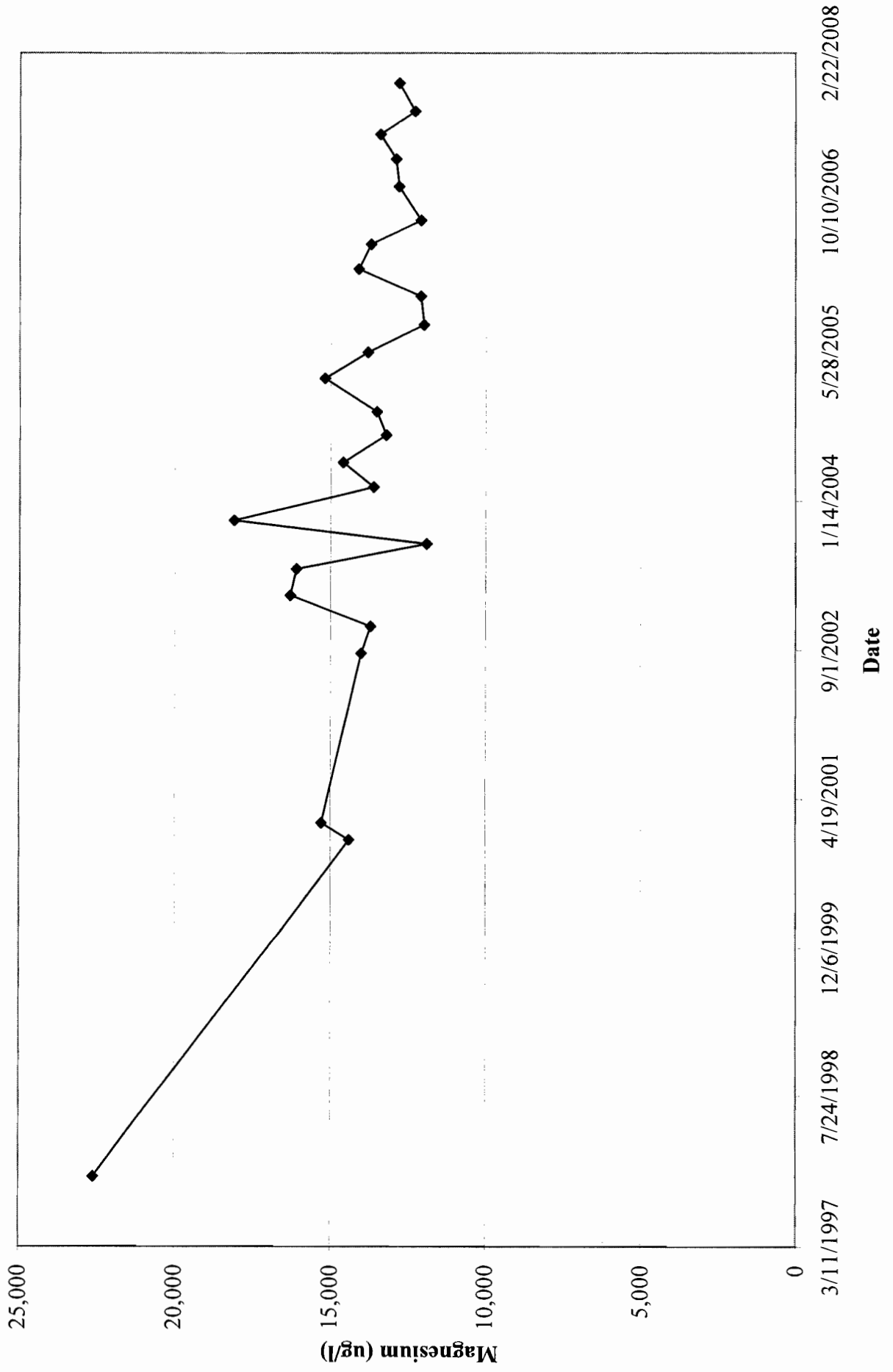
IRON IN MW-04S



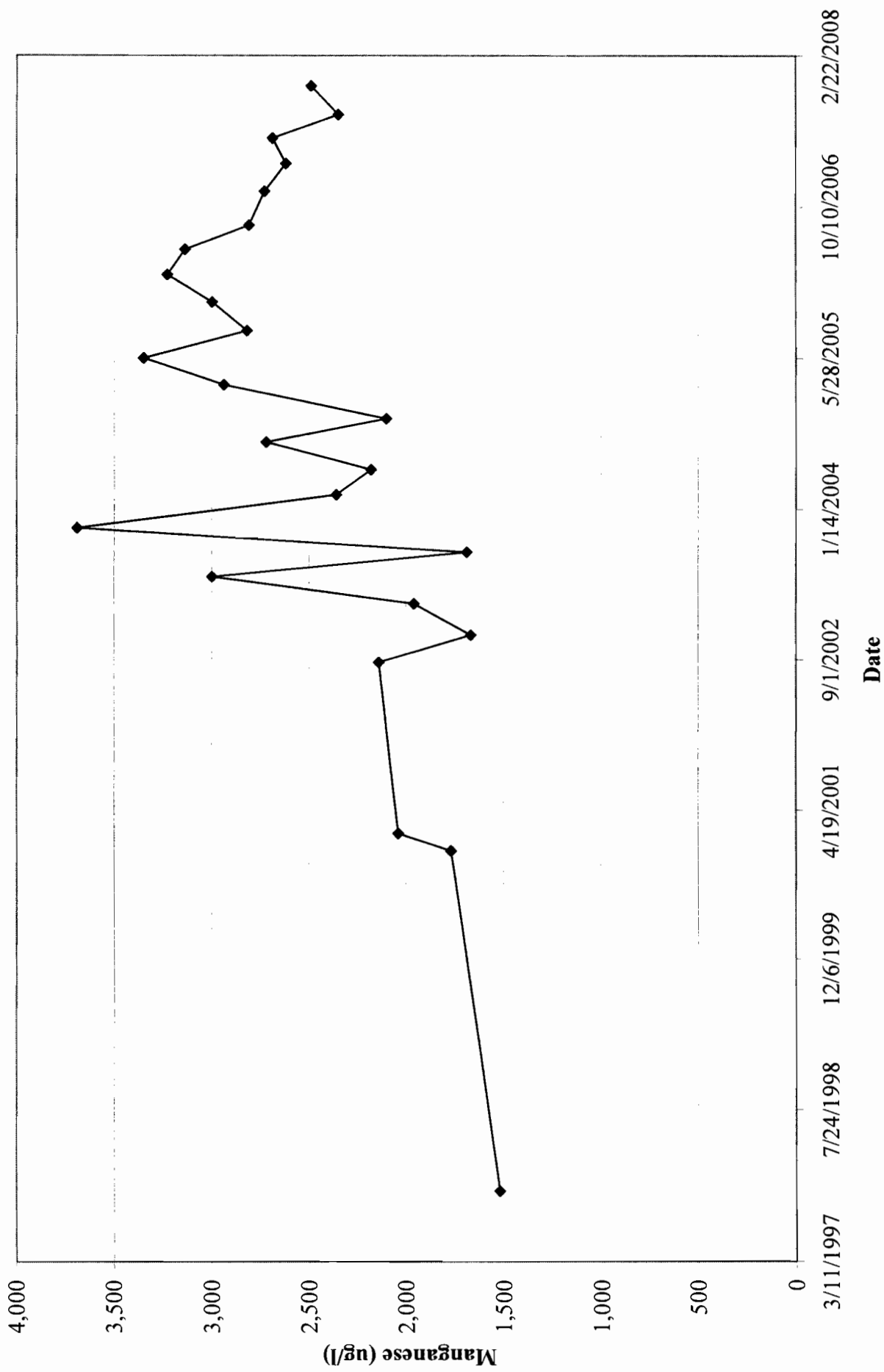
LEAD IN MW-04S



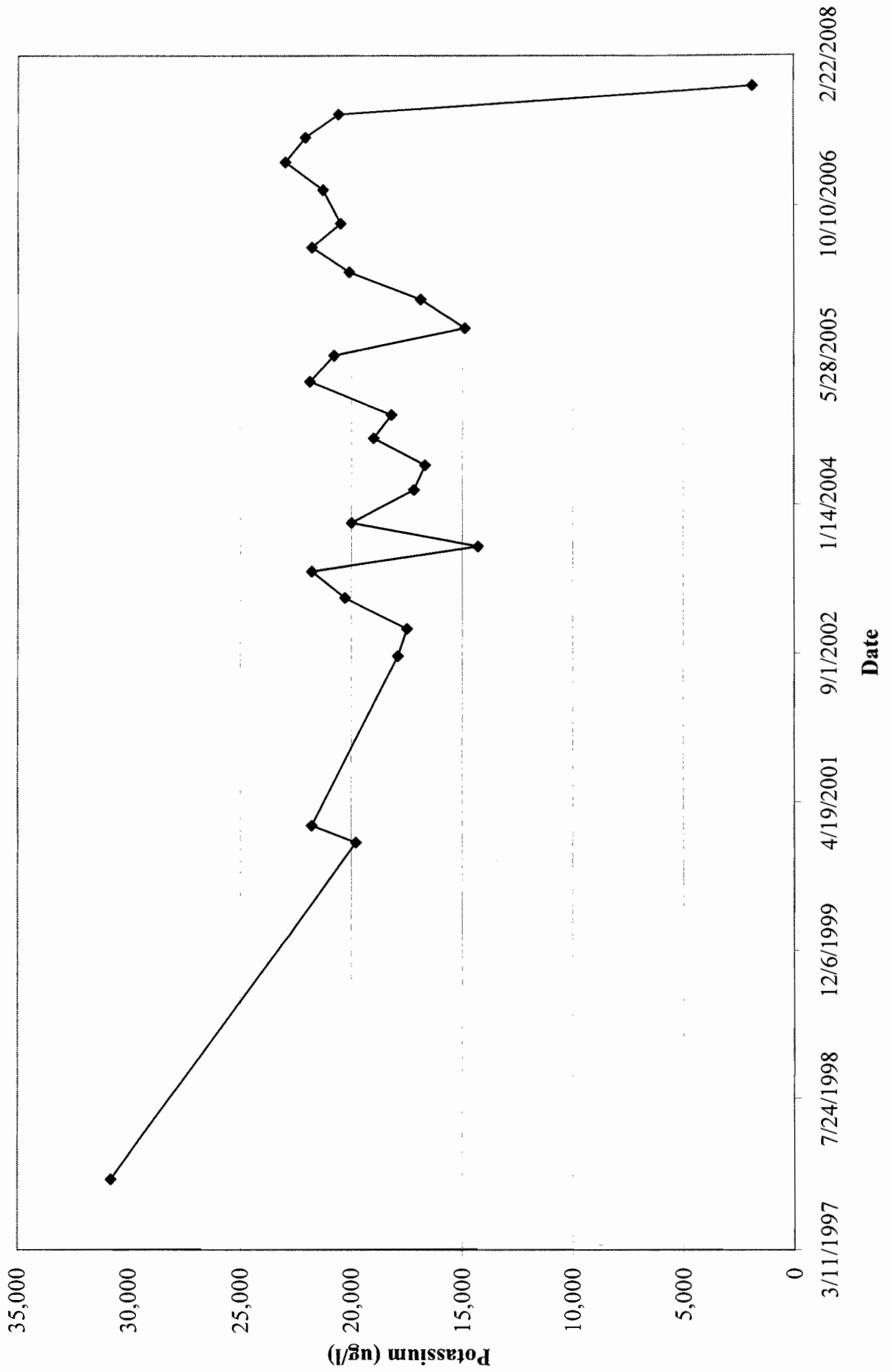
MAGNESIUM IN MW-04S



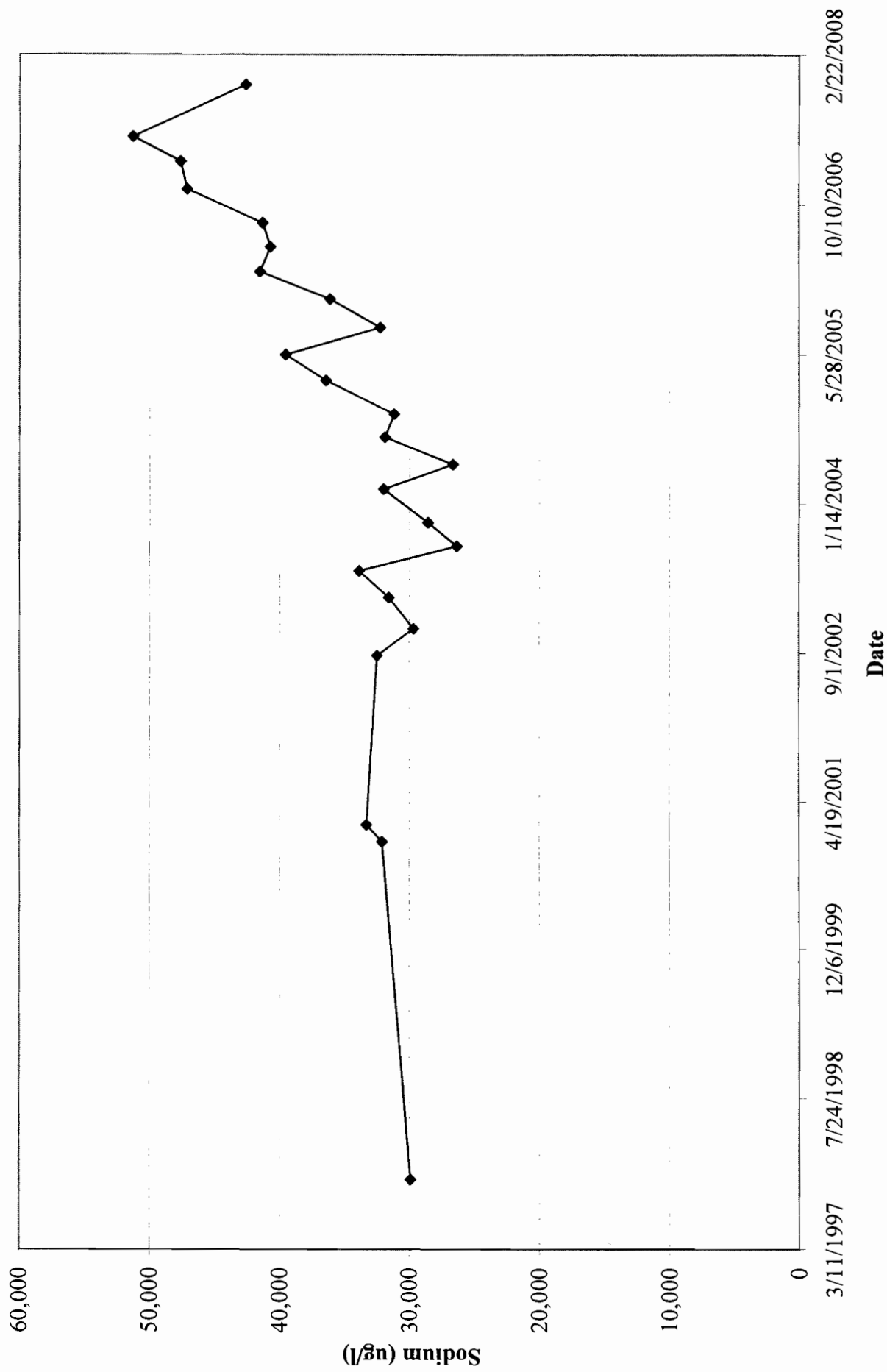
MANGANESE IN MW-04S



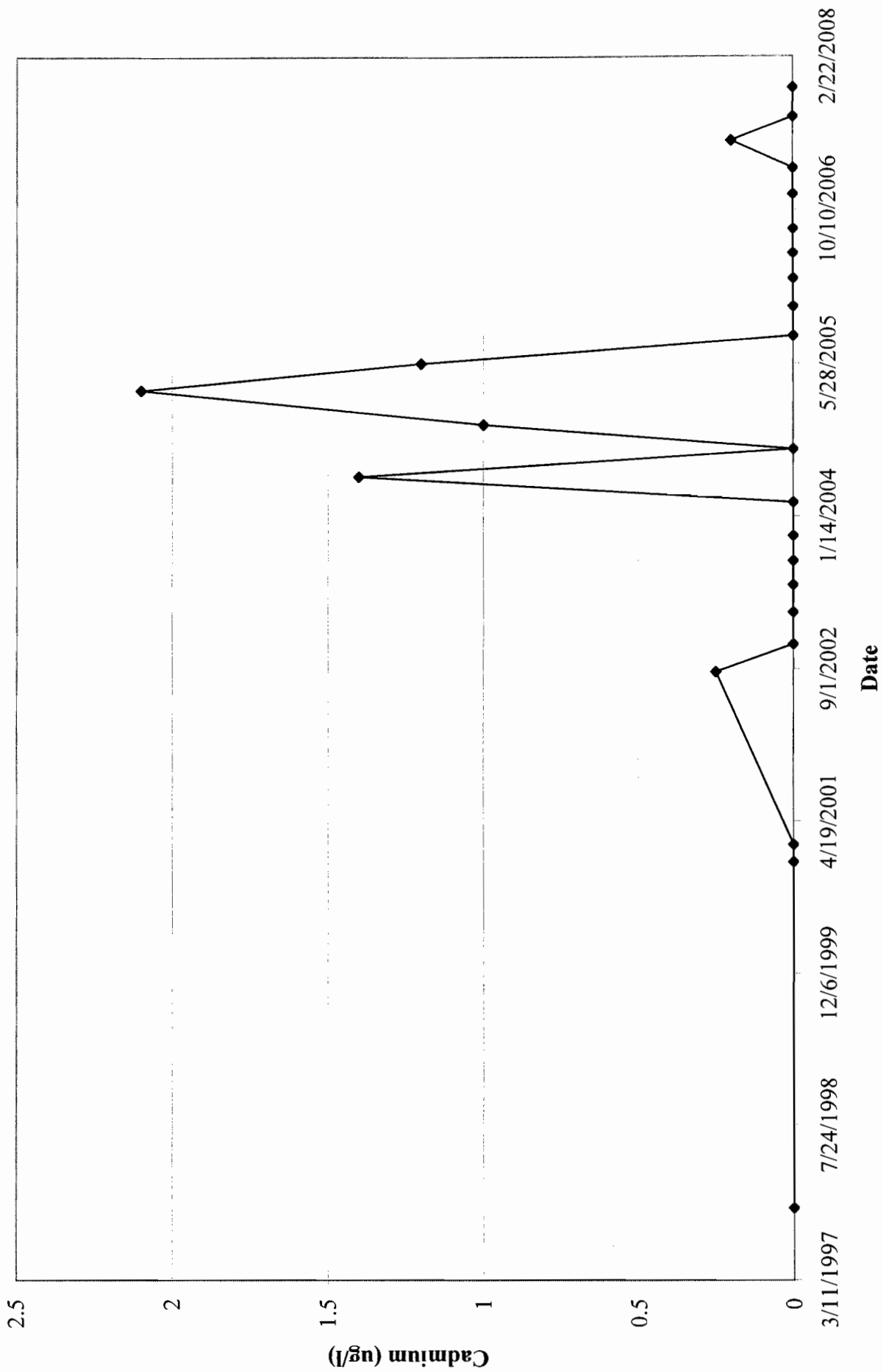
POTASSIUM IN MW-04S



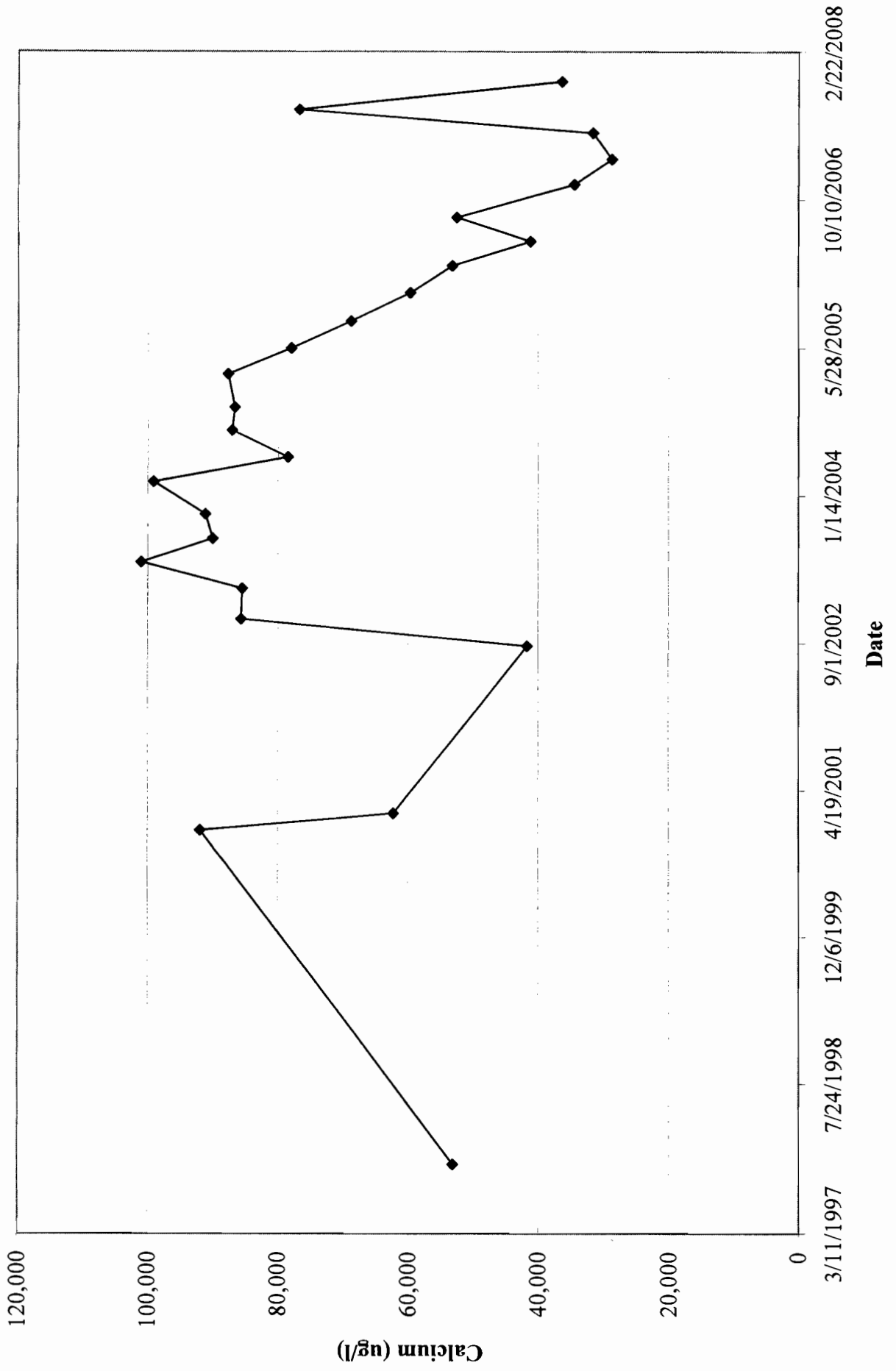
SODIUM IN MW-04S



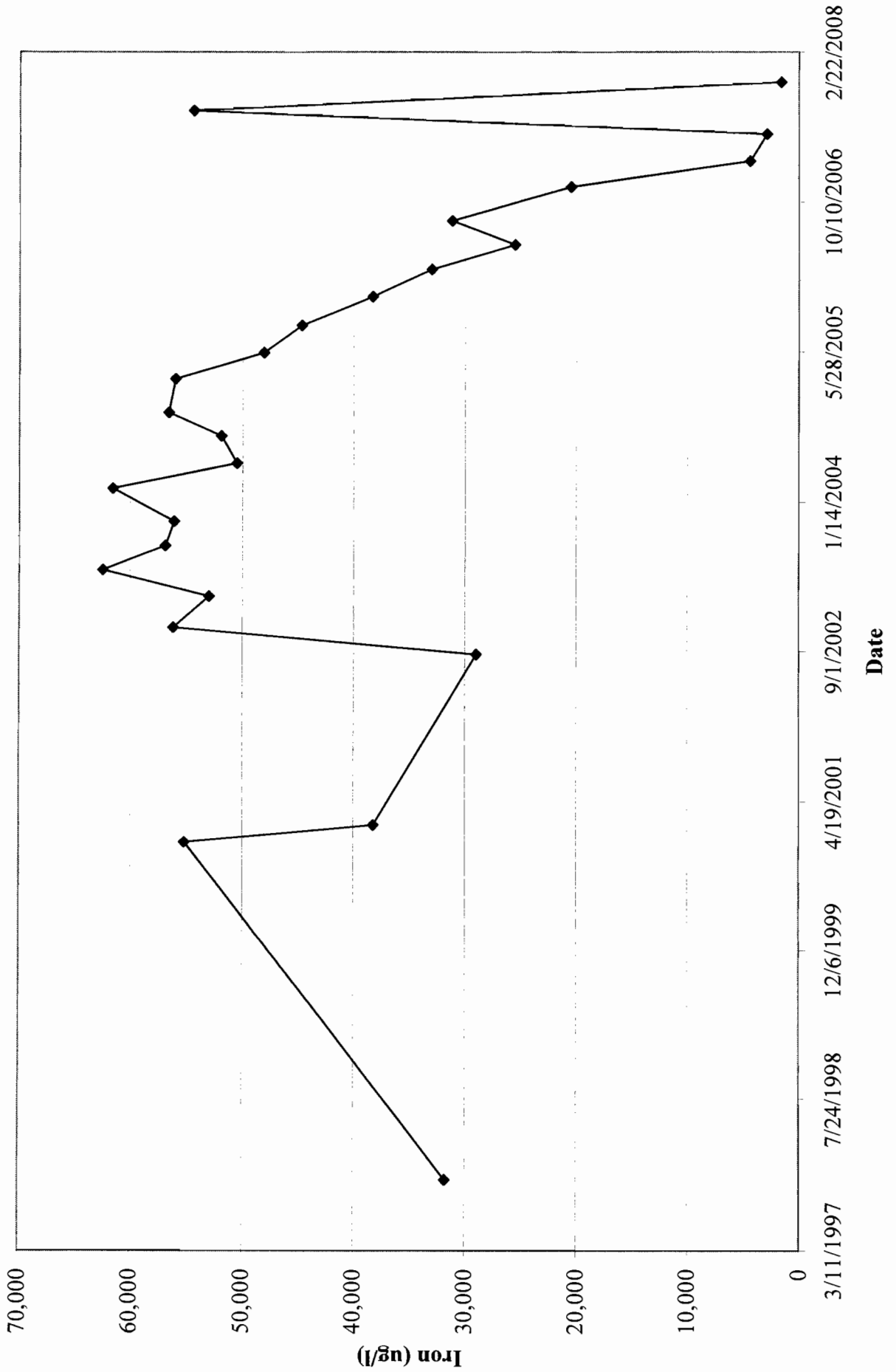
CADMIUM IN MW-04I



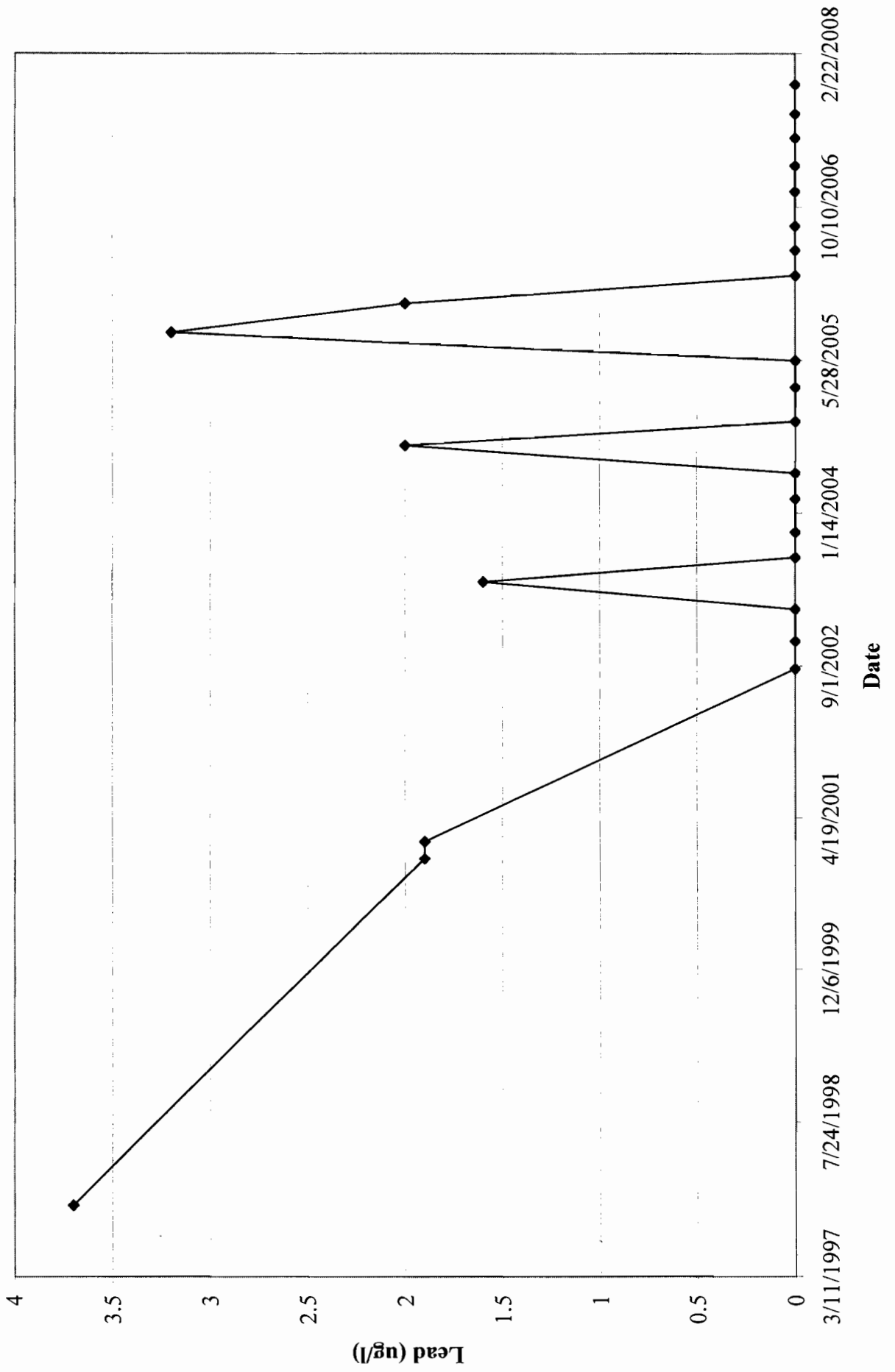
CALCIUM IN MW-04I



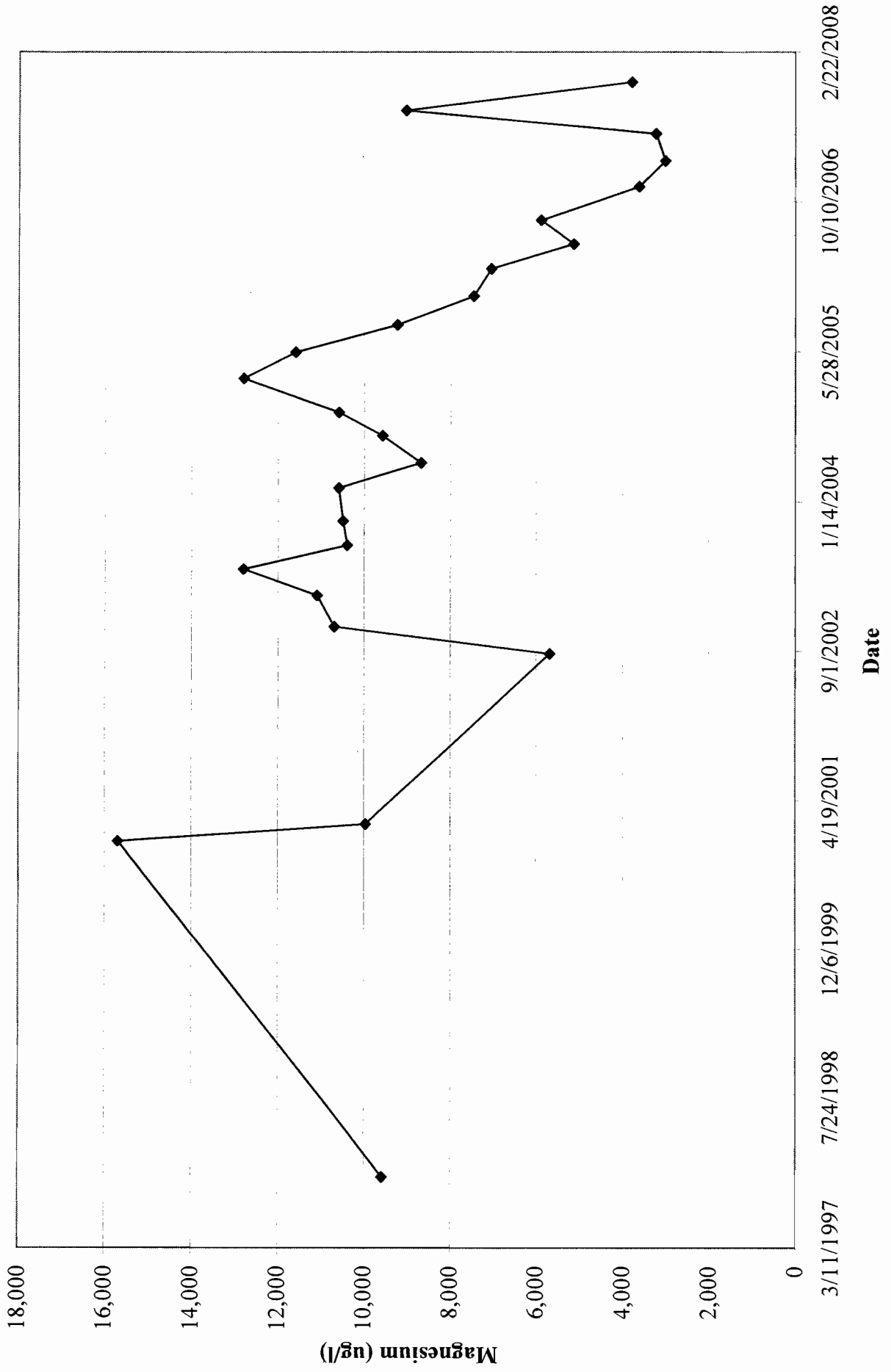
IRON IN MW-04I



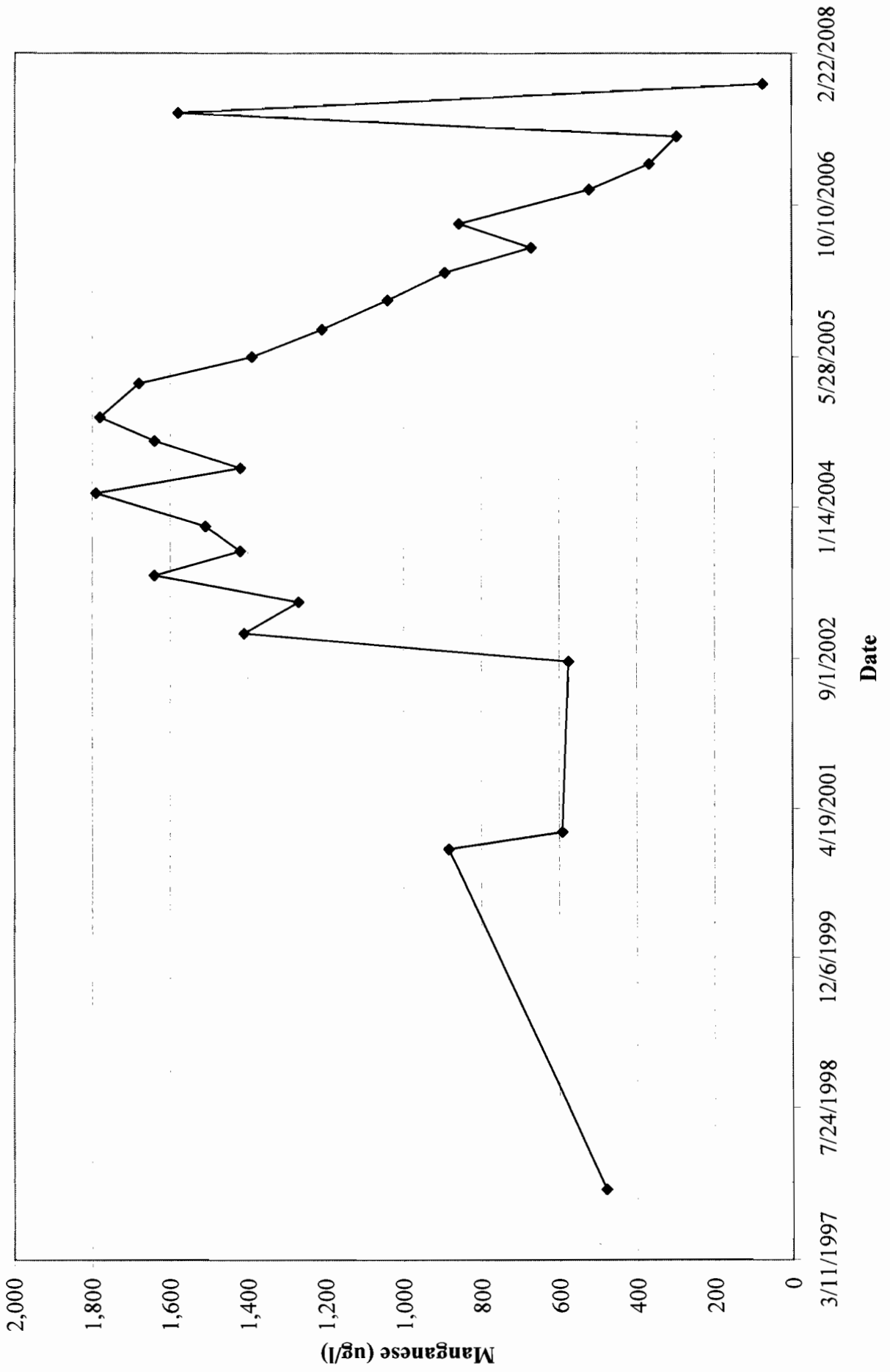
LEAD IN MW-04I



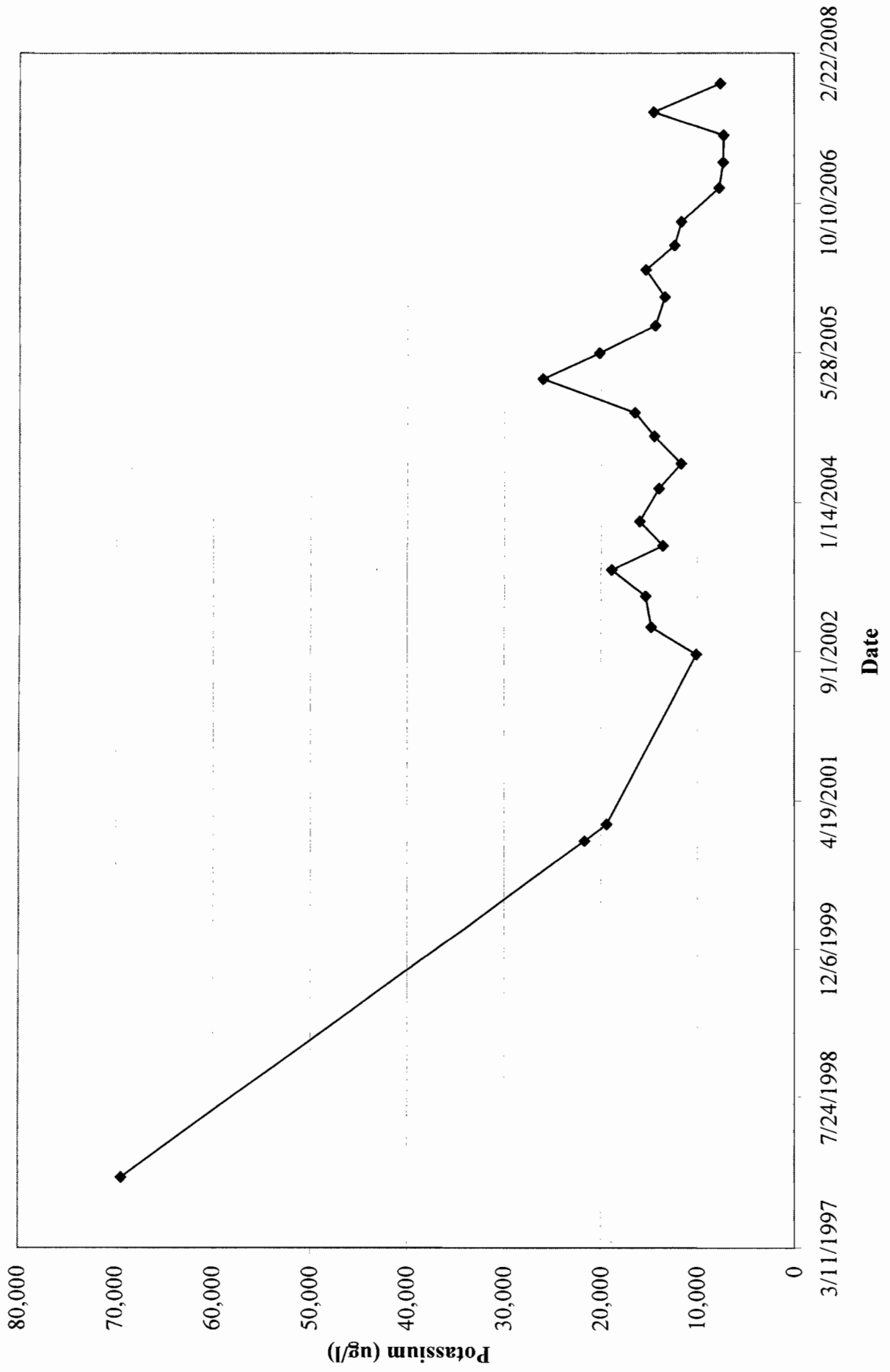
MAGNESIUM IN MW-04I



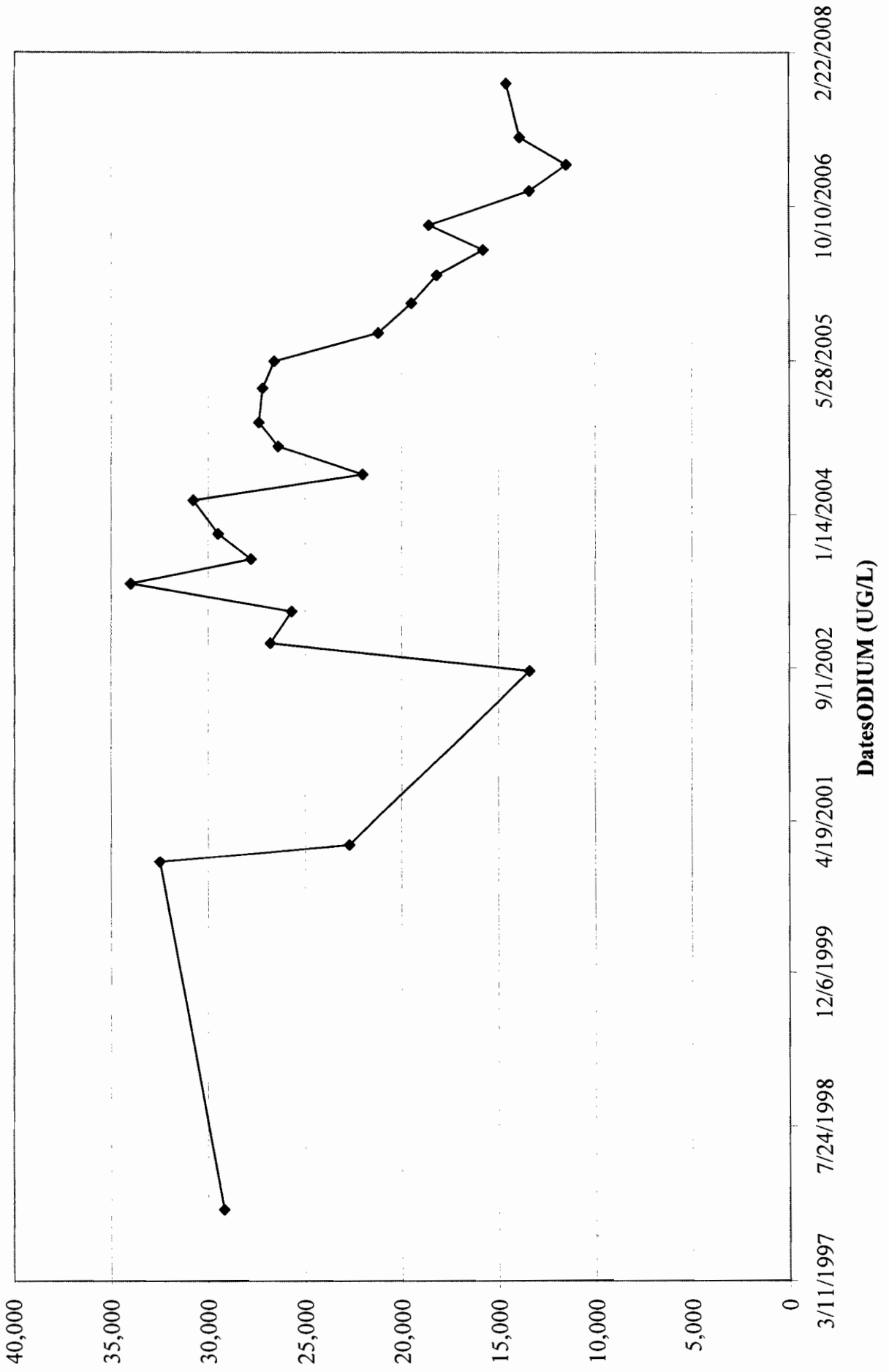
MANGANESE IN MW-04I



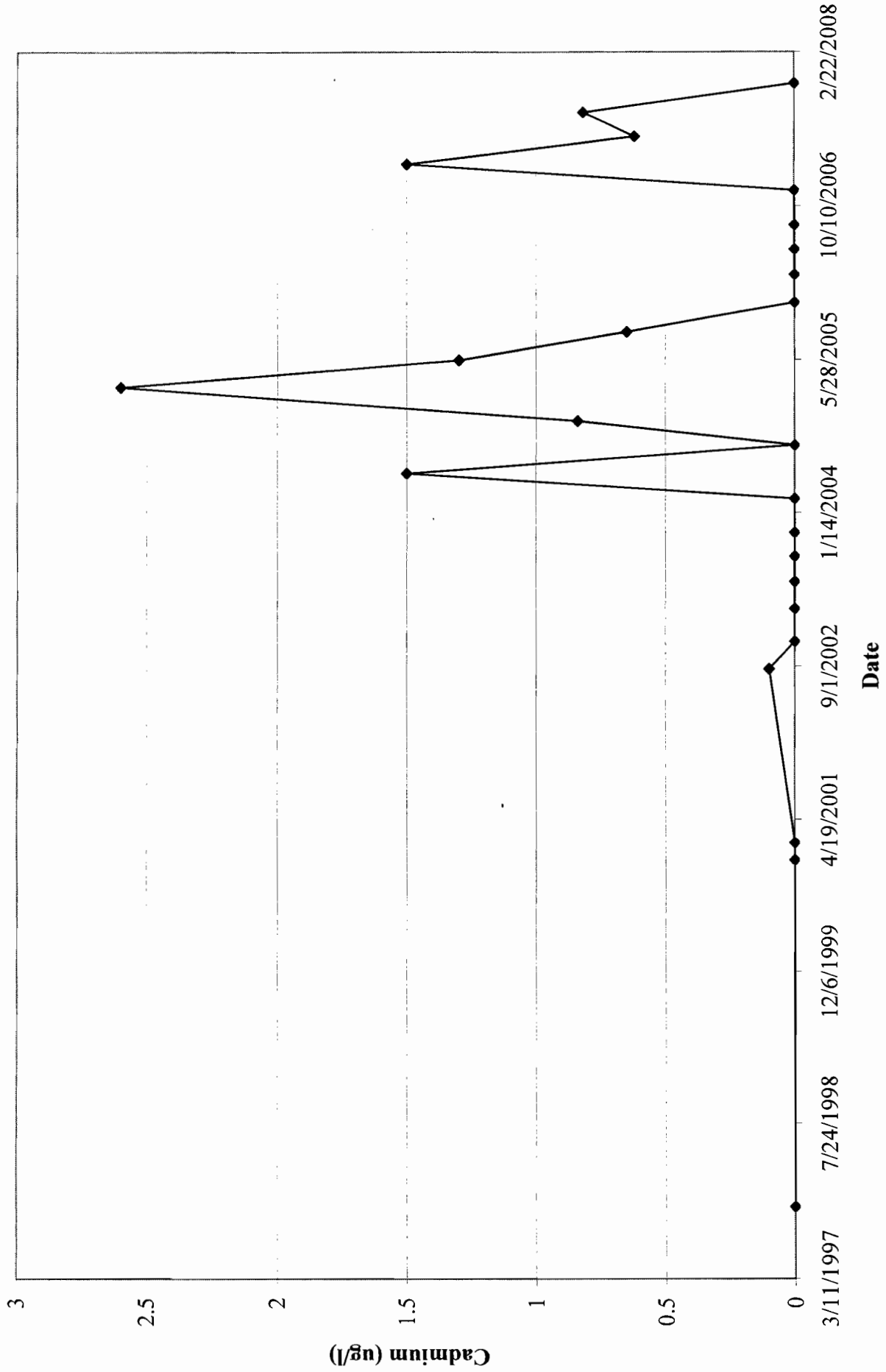
POTASSIUM IN MW-04I



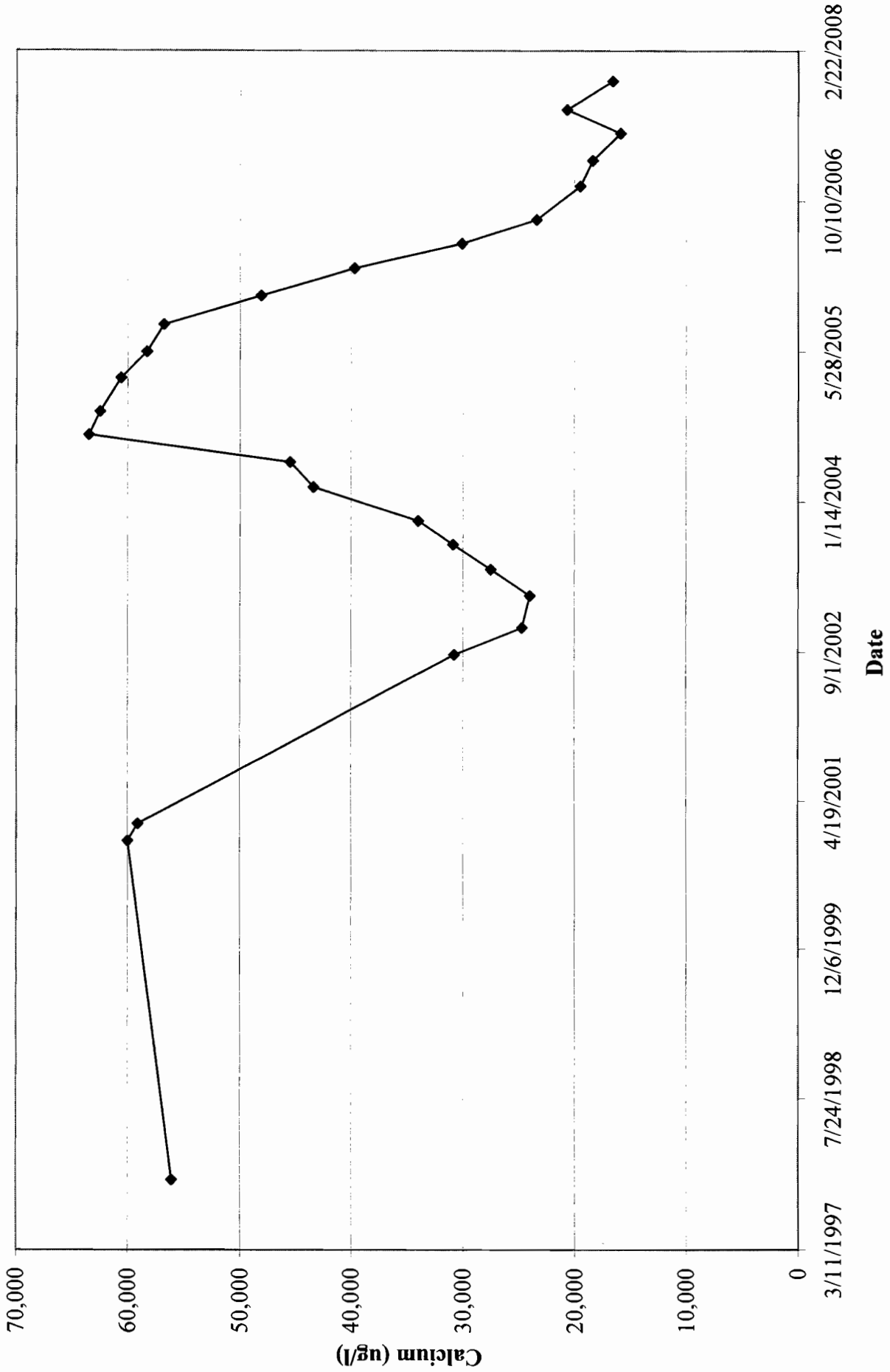
SODIUM IN MW-04I



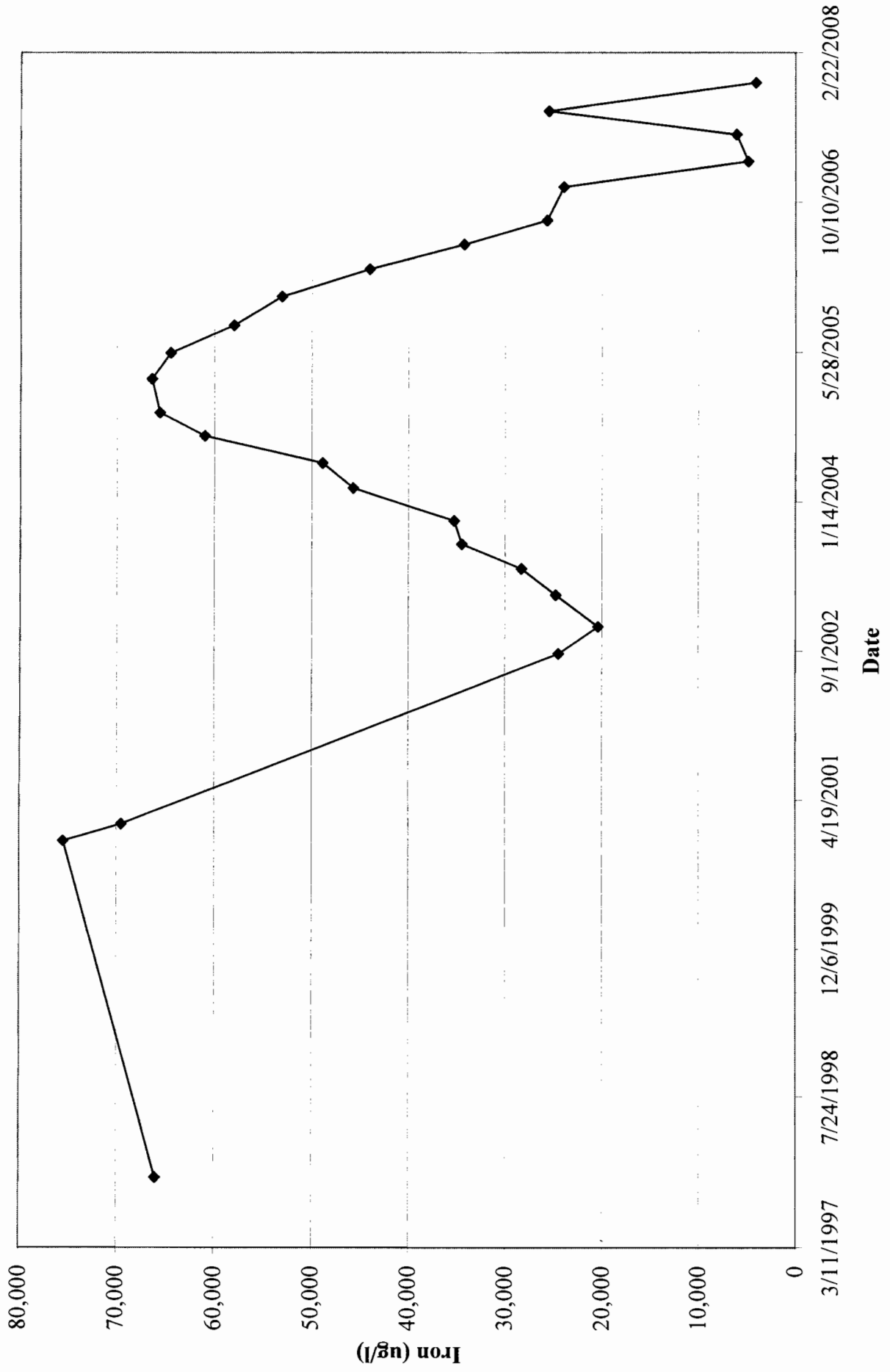
CADMIUM IN MW-04D



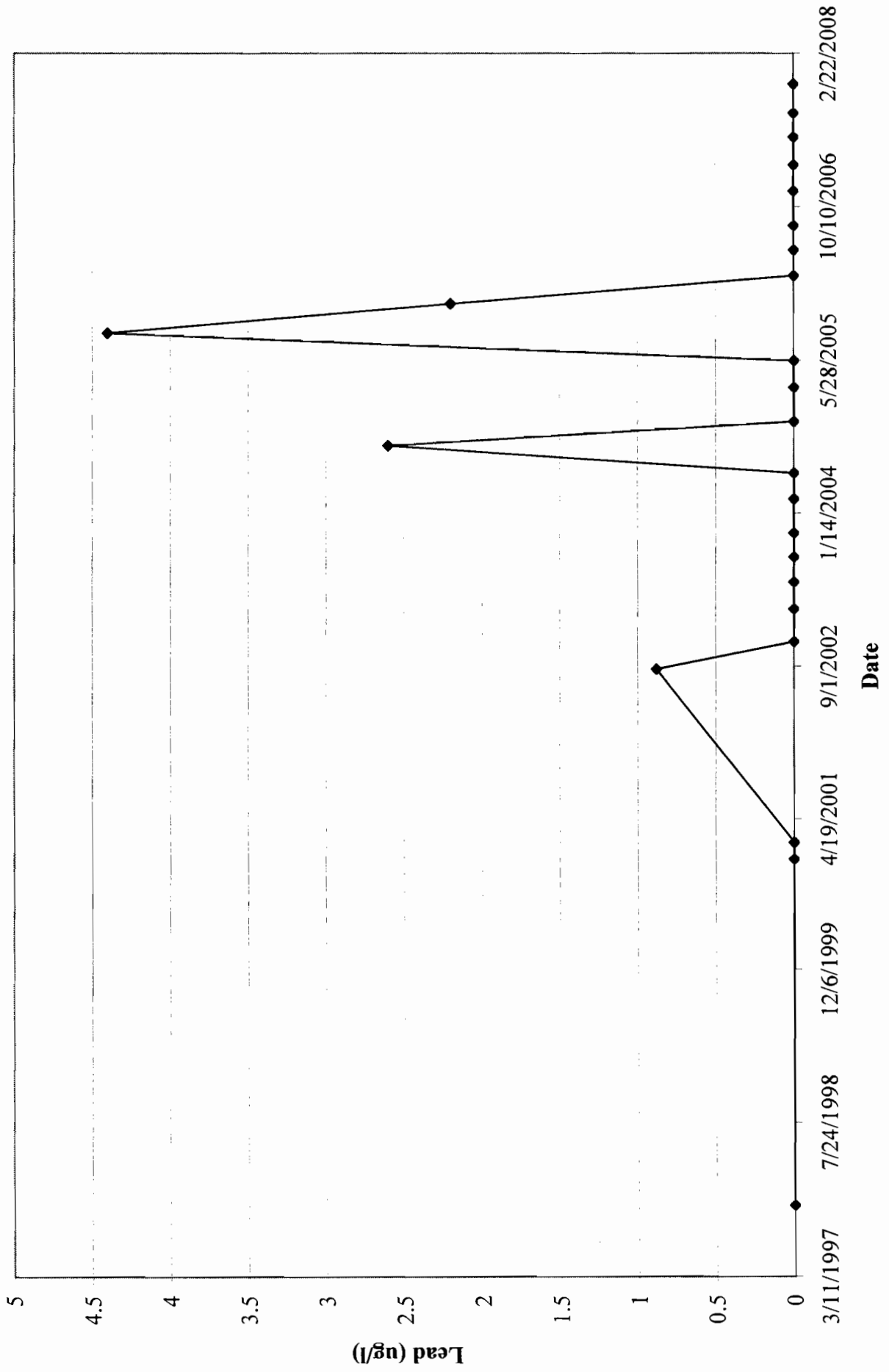
CALCIUM IN MW-04D



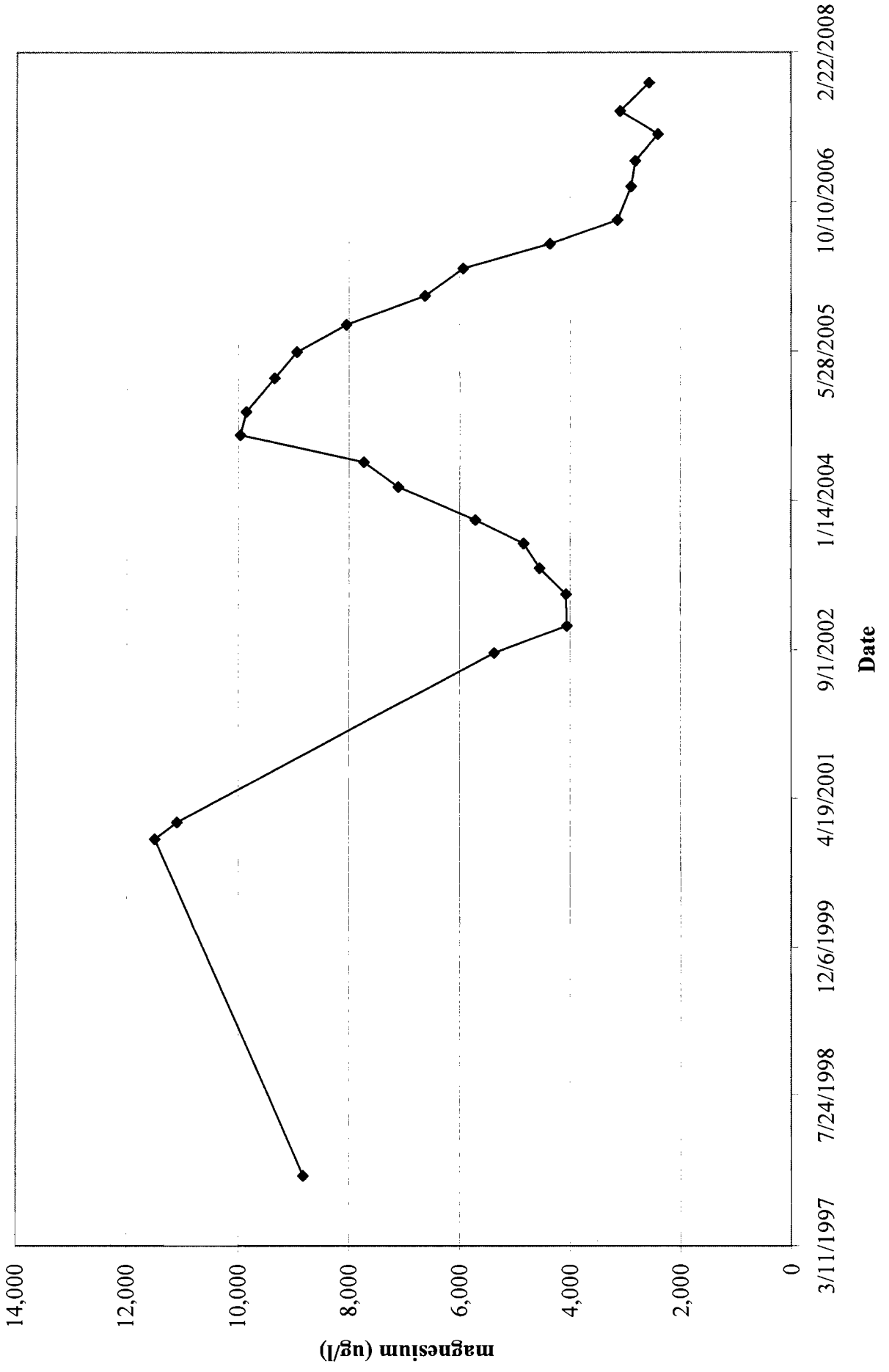
IRON IN MW-04D



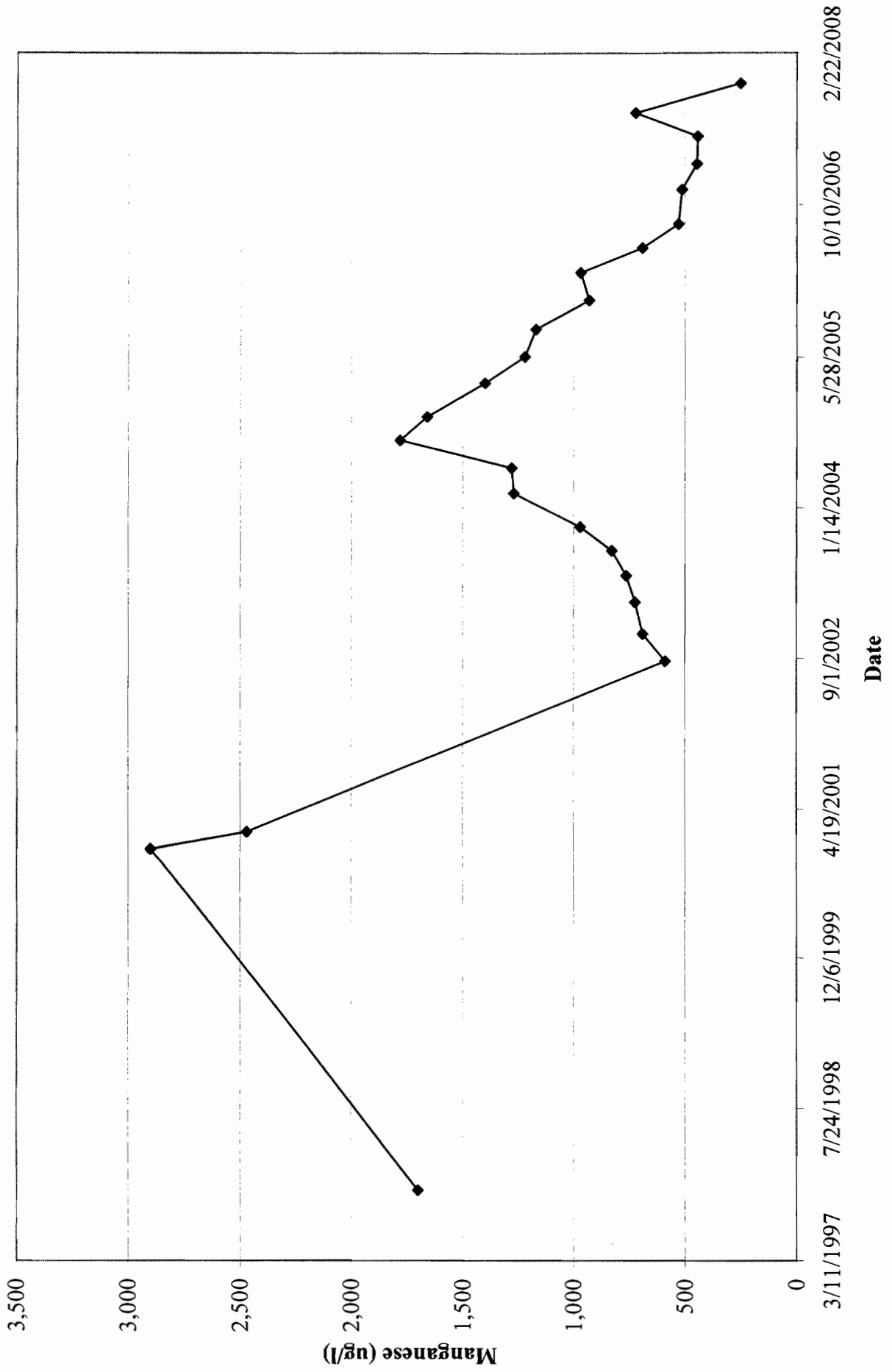
LEAD IN MW-04D



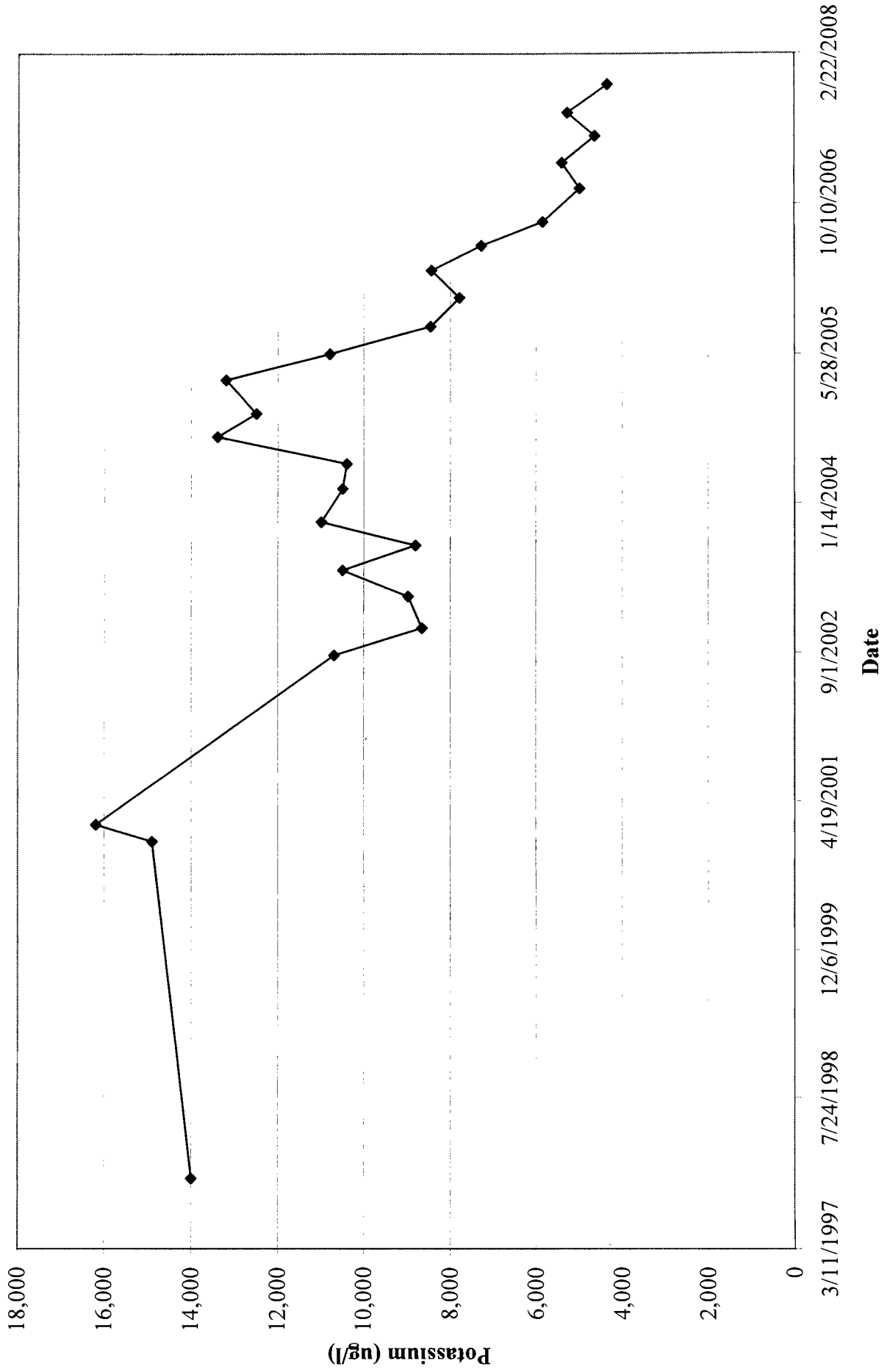
MAGNESIUM IN MW-04D



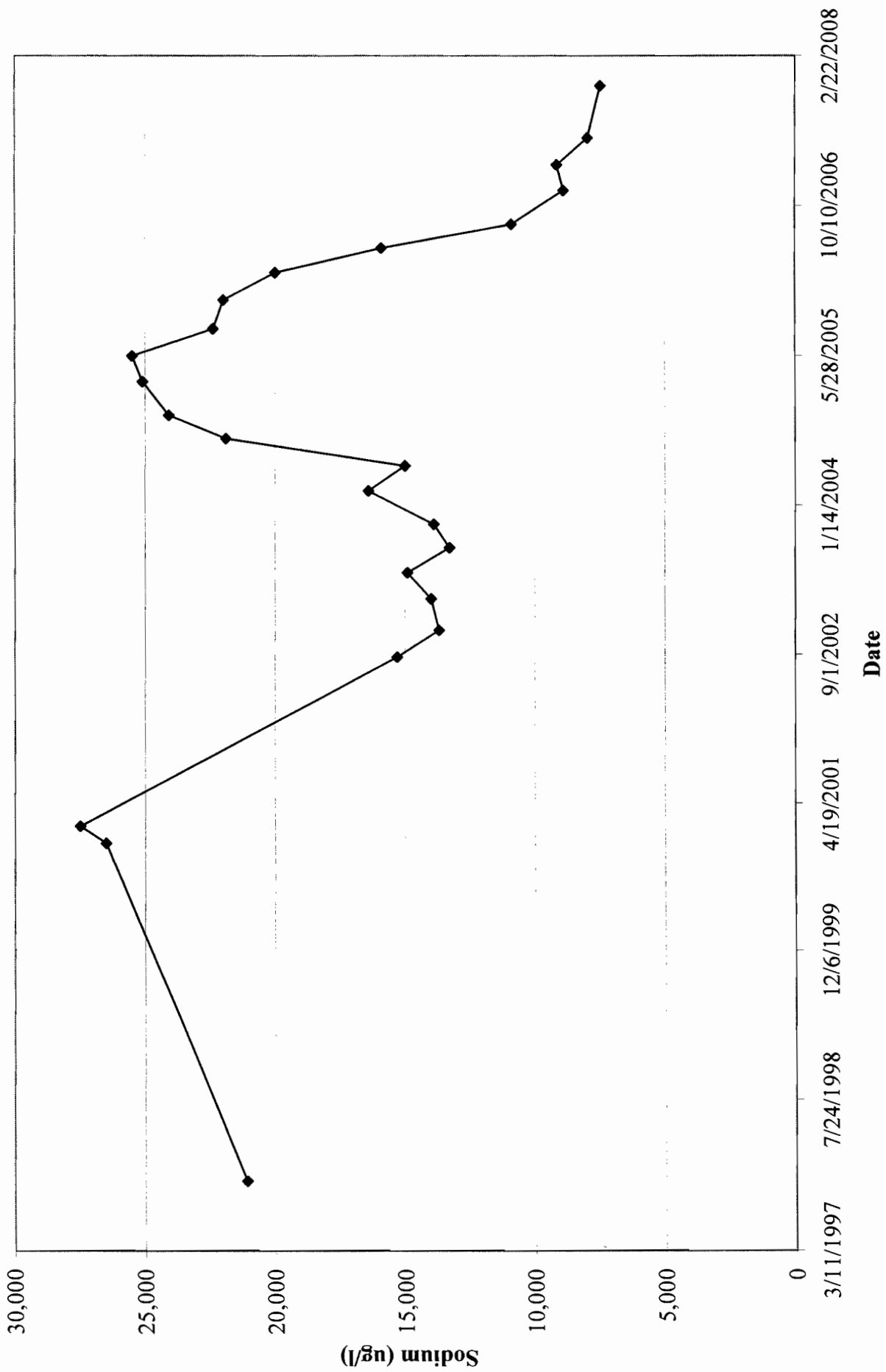
MANGANESE IN MW-04D



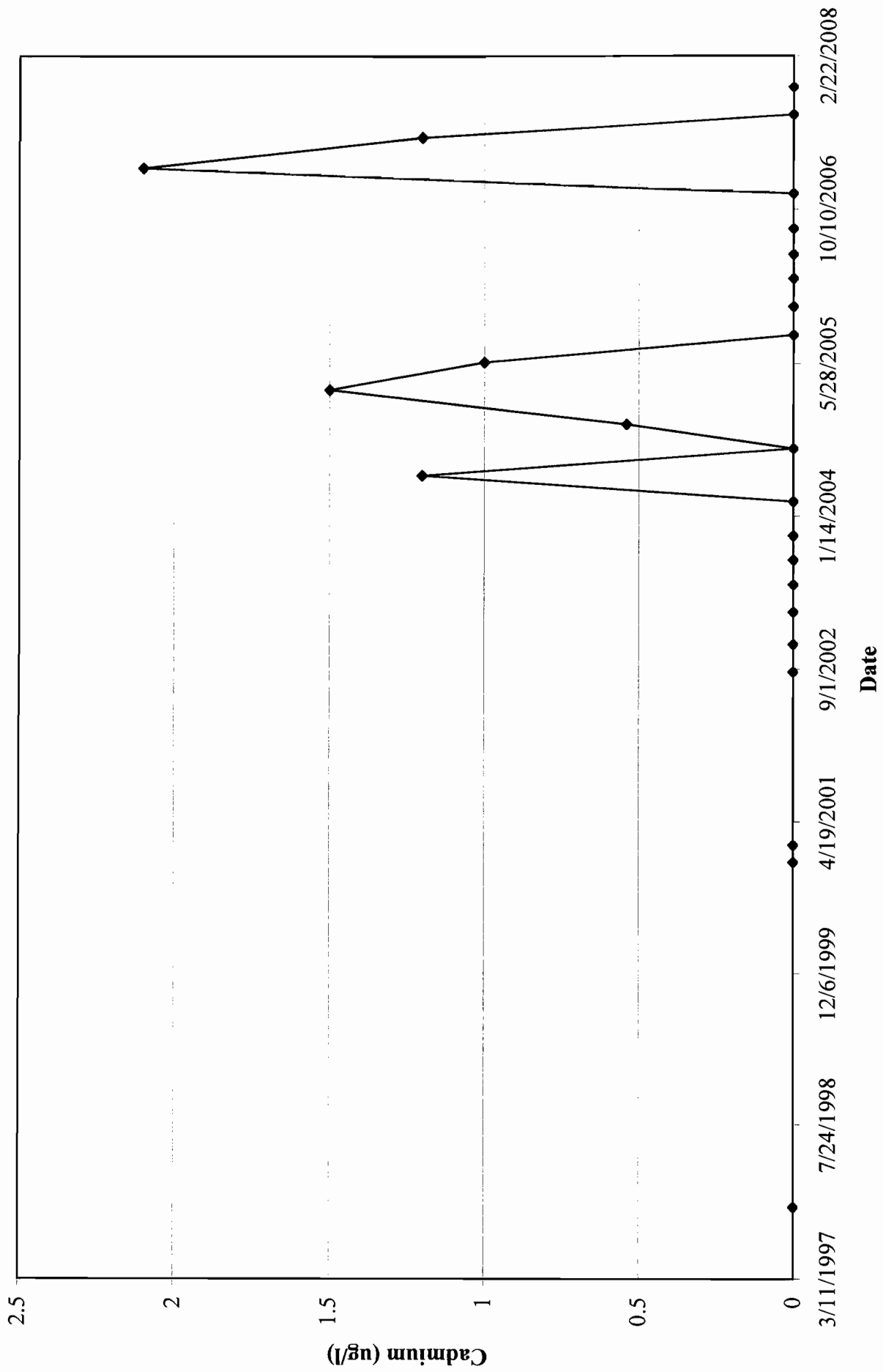
POTASSIUM IN MW-04D



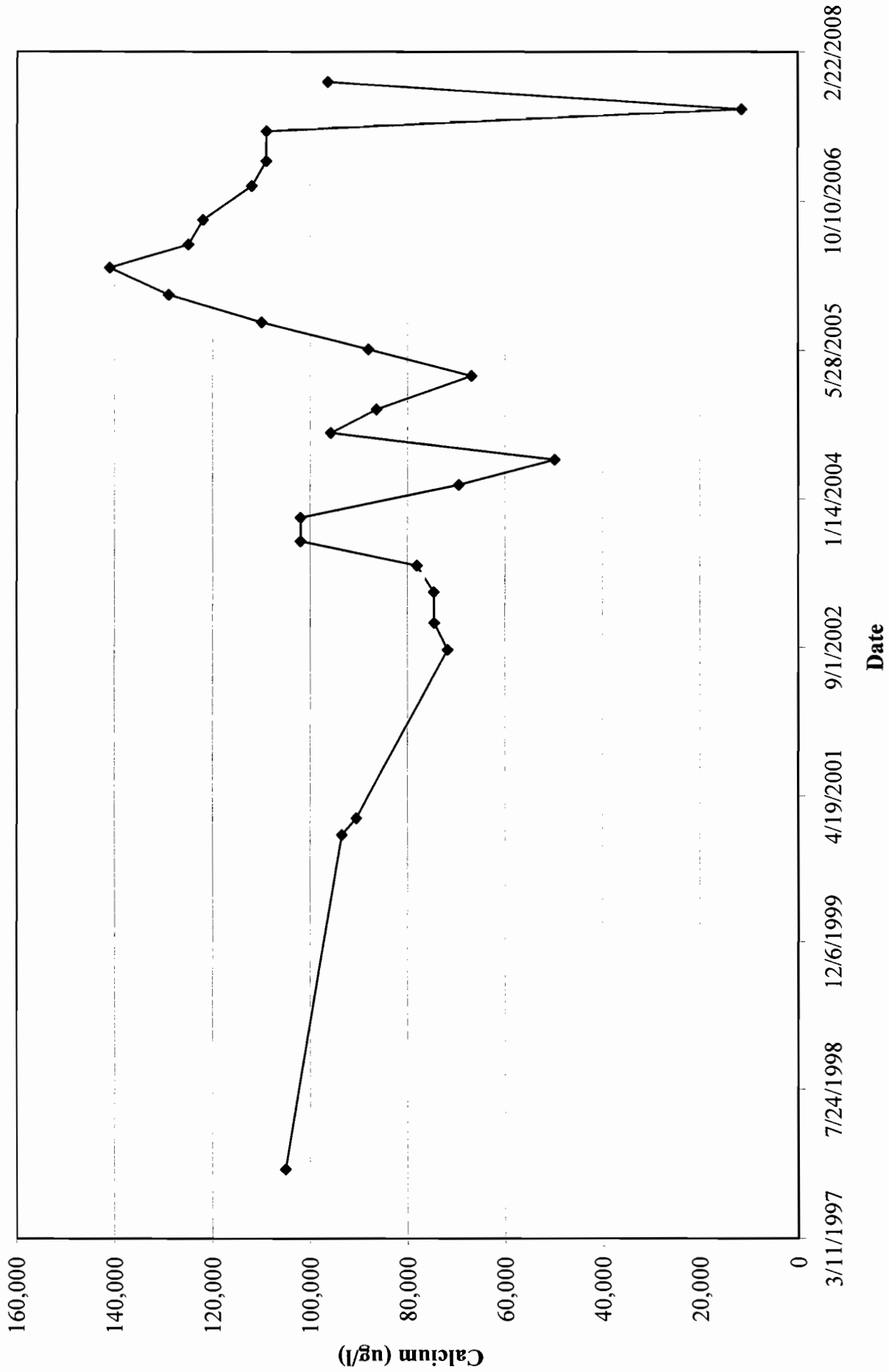
SODIUM IN MW-04D



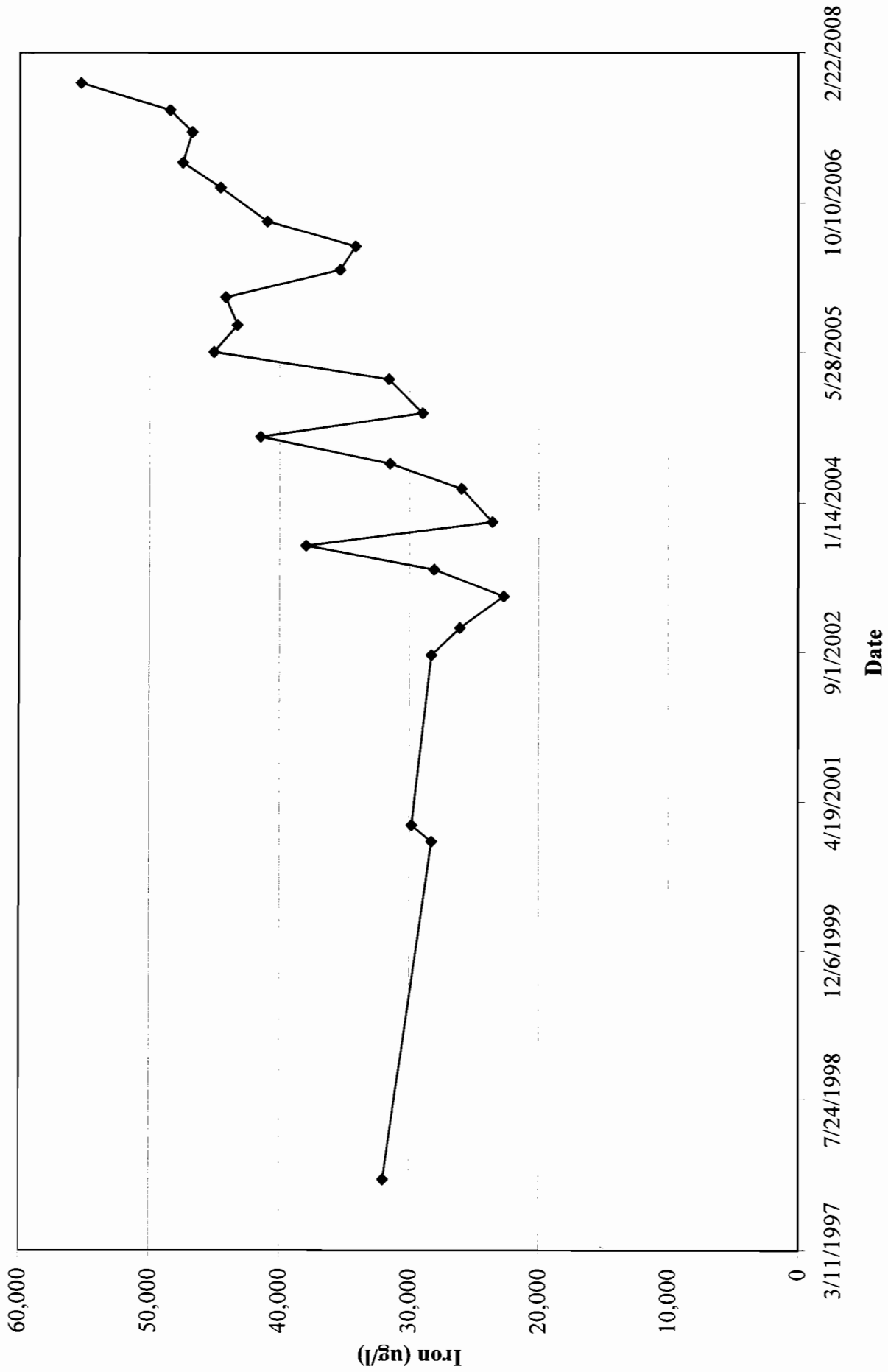
CADMIUM IN MW-05S



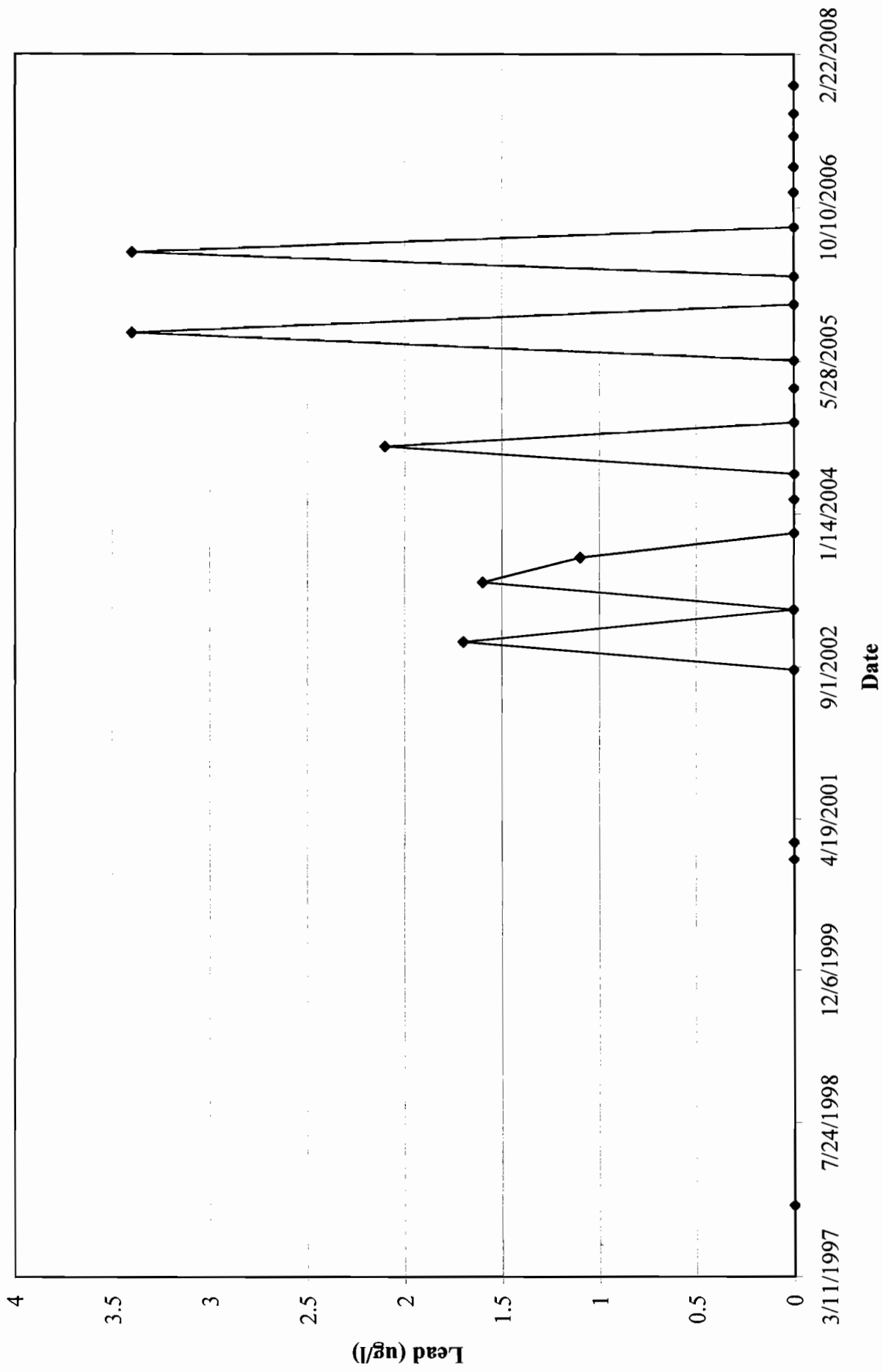
CALCIUM IN MW-05S



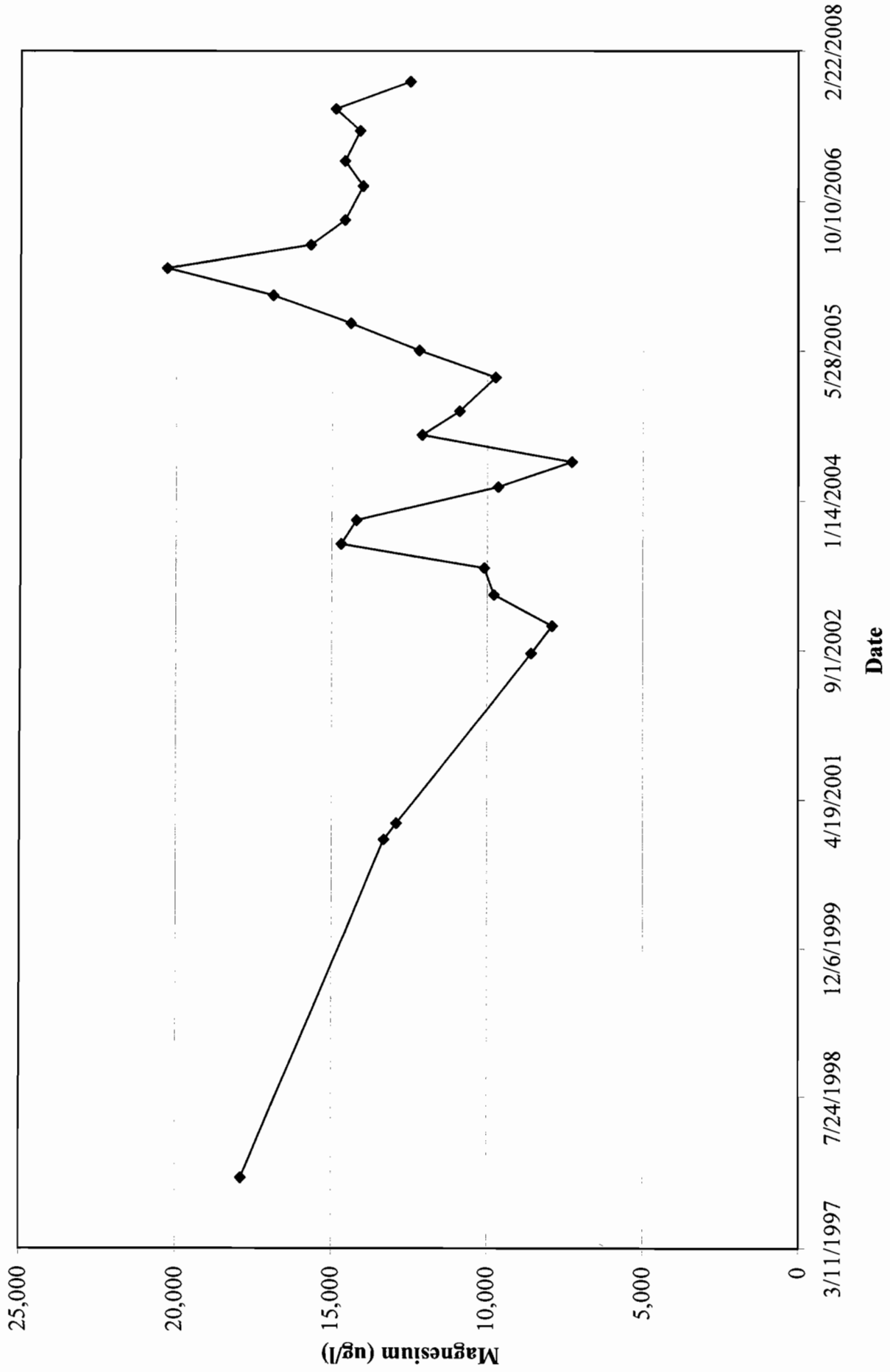
IRON IN MW-05S



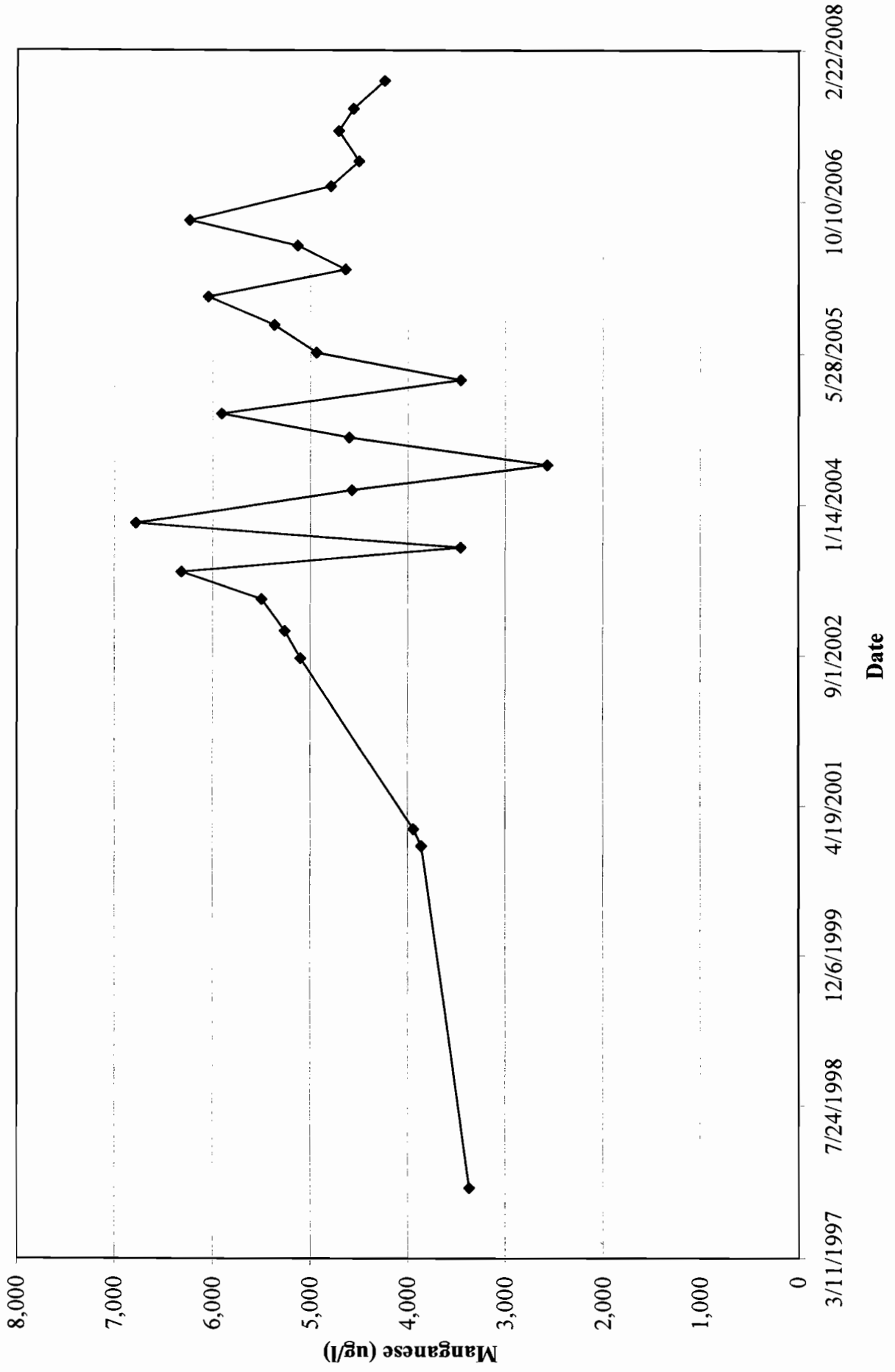
LEAD IN MW-05S



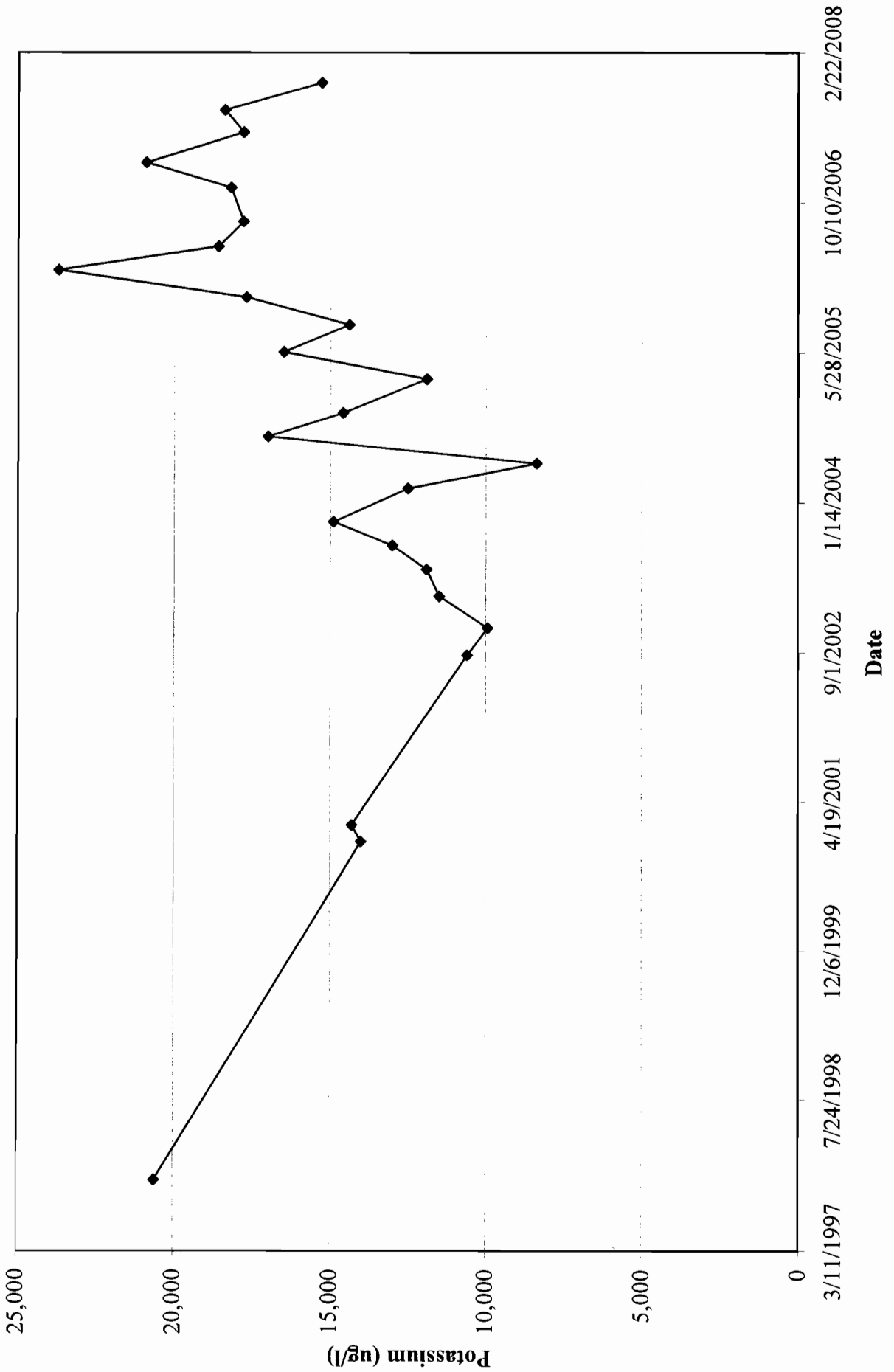
MAGNESIUM IN MW-05S



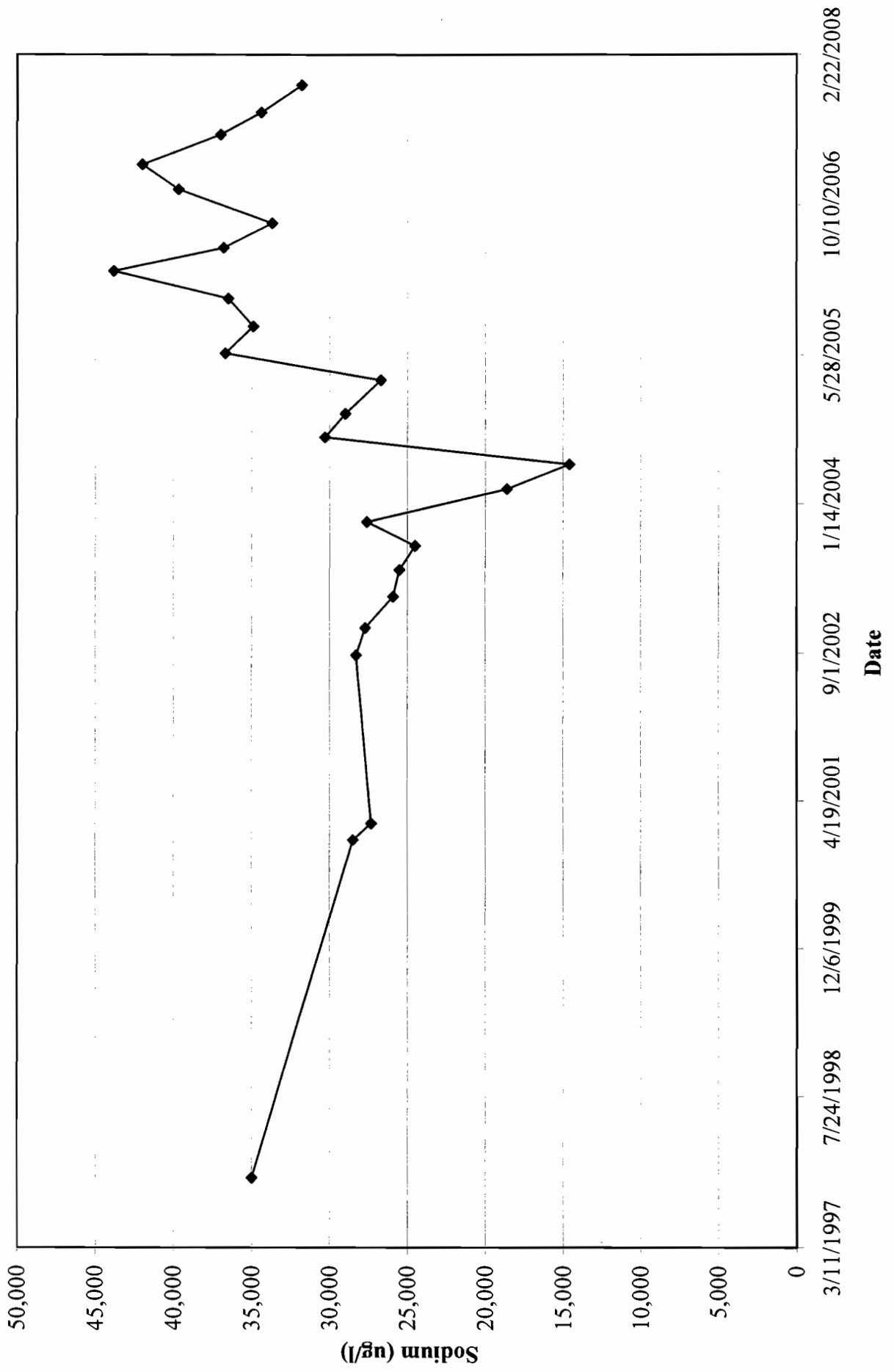
MANGANESE IN MW-05S



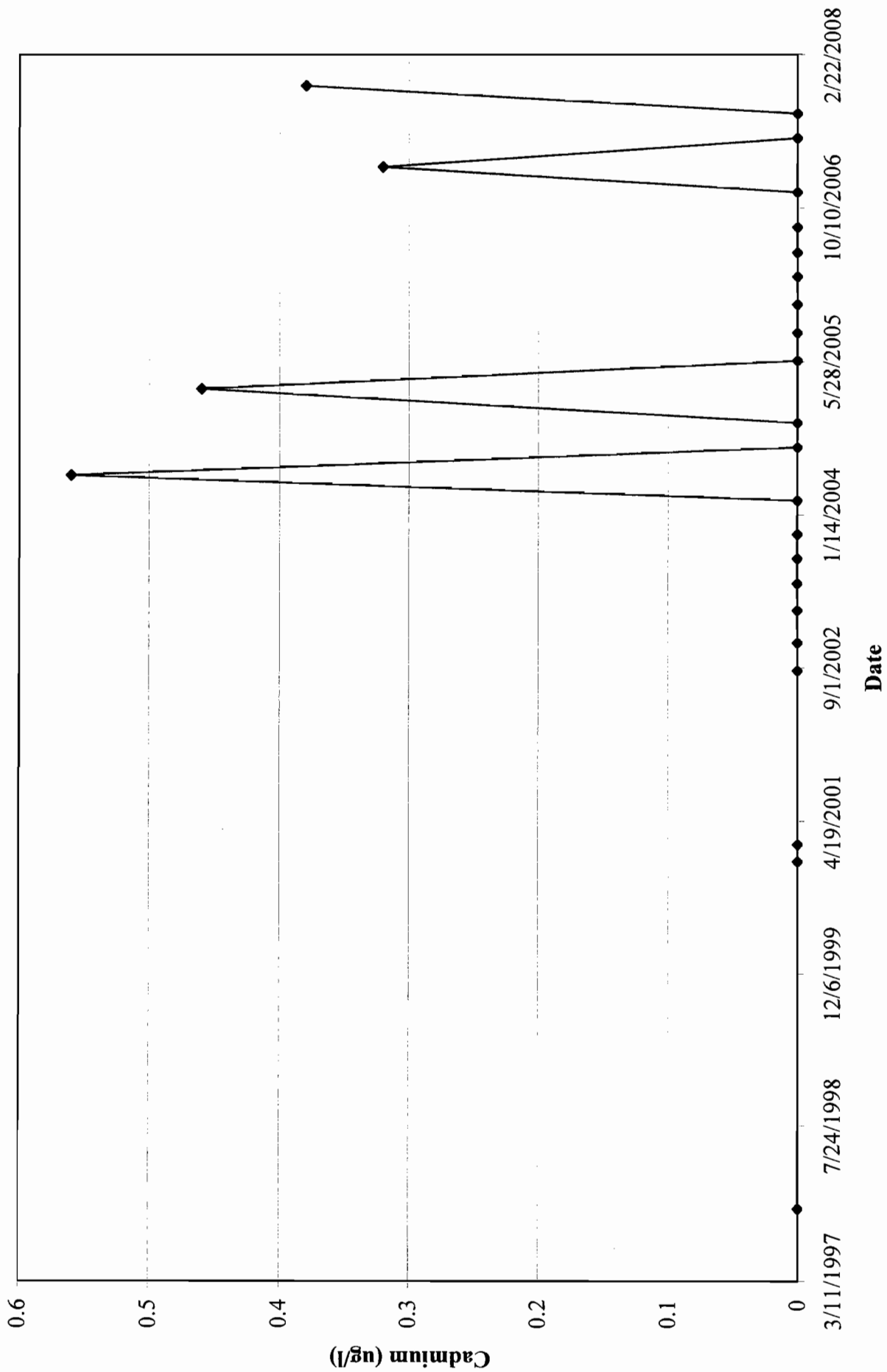
POTASSIUM IN MW-05S



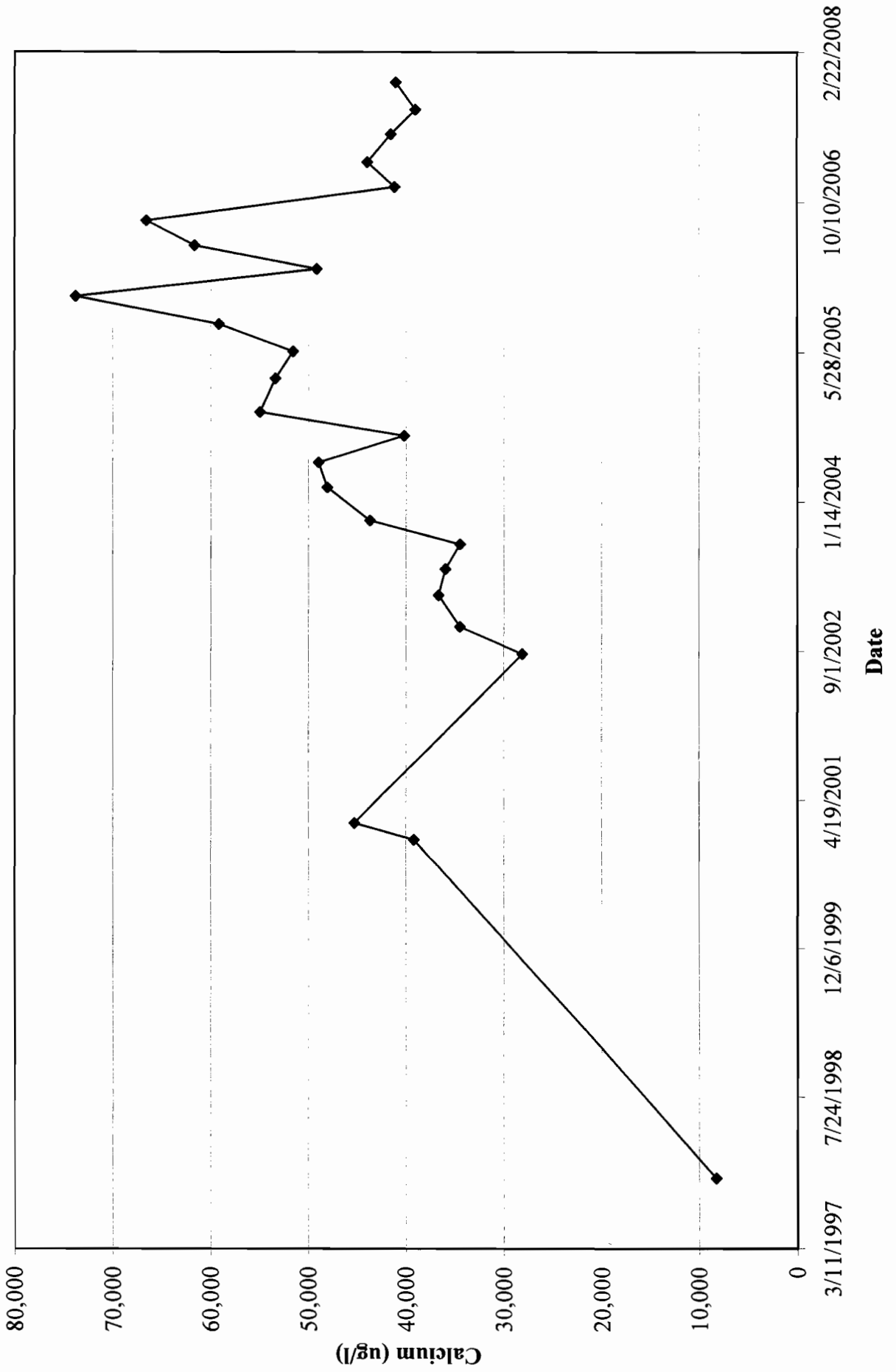
SODIUM IN MW-05S



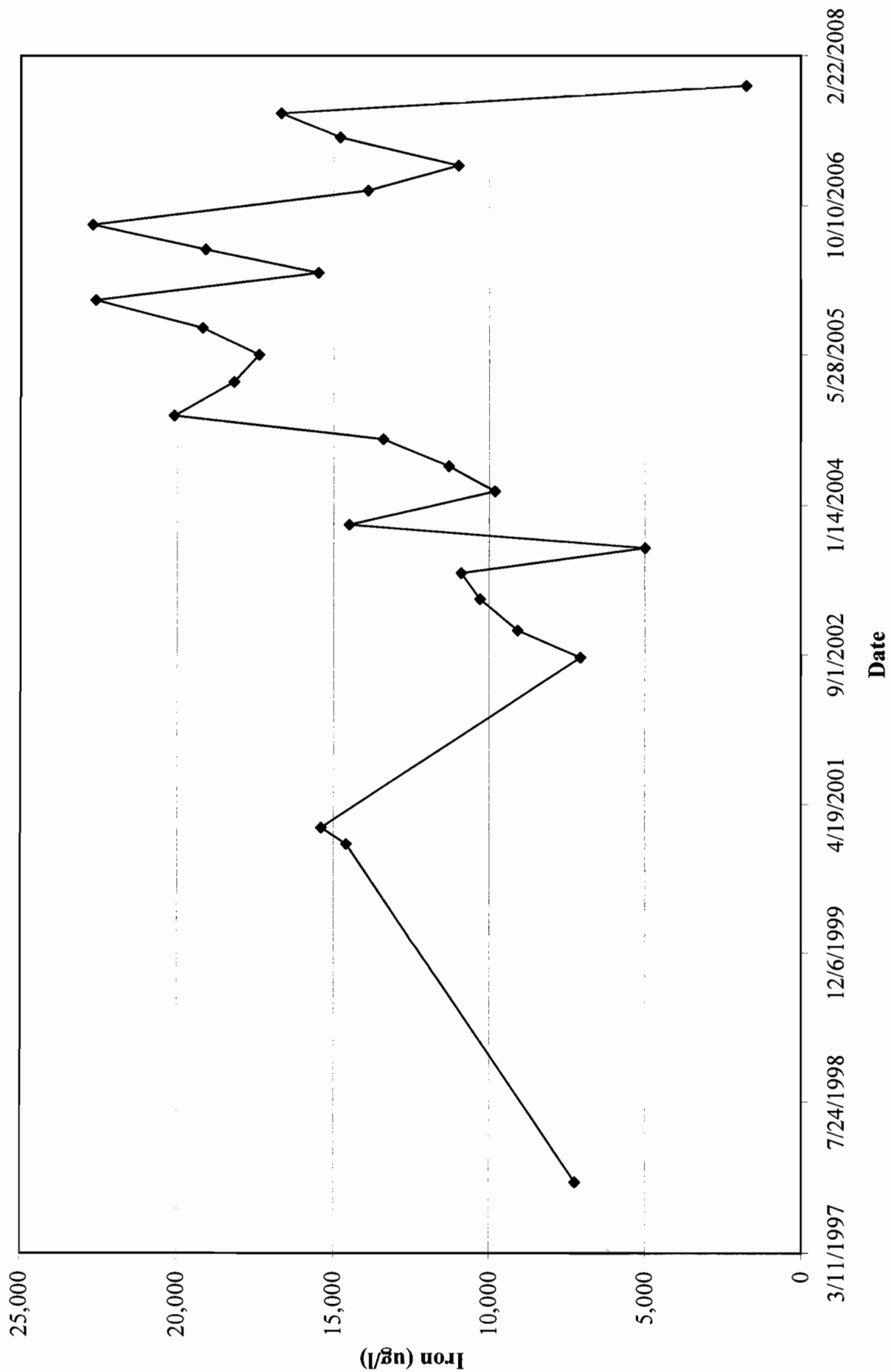
CADMIUM IN MW-05I



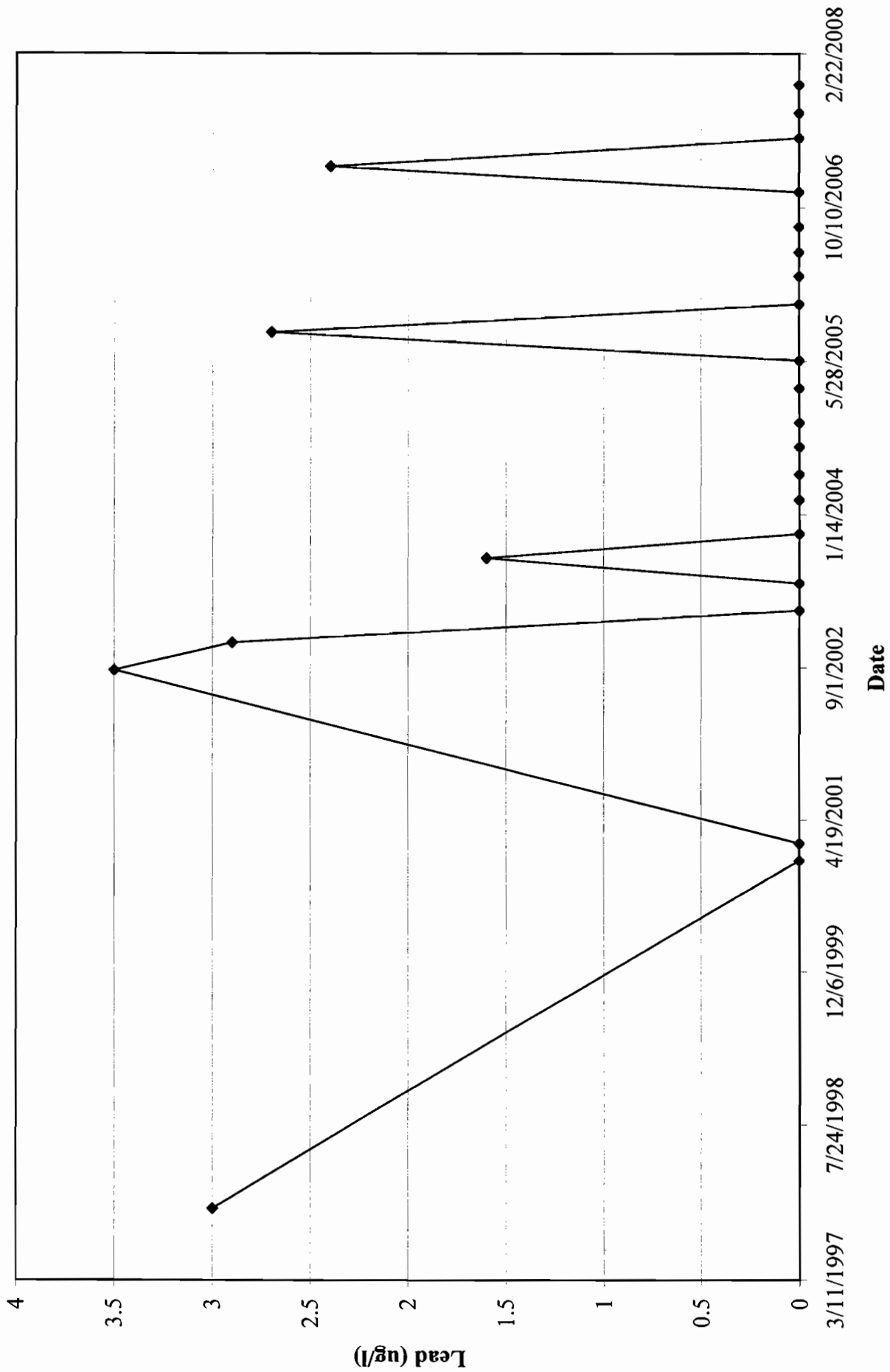
CALCIUM IN MW-05I



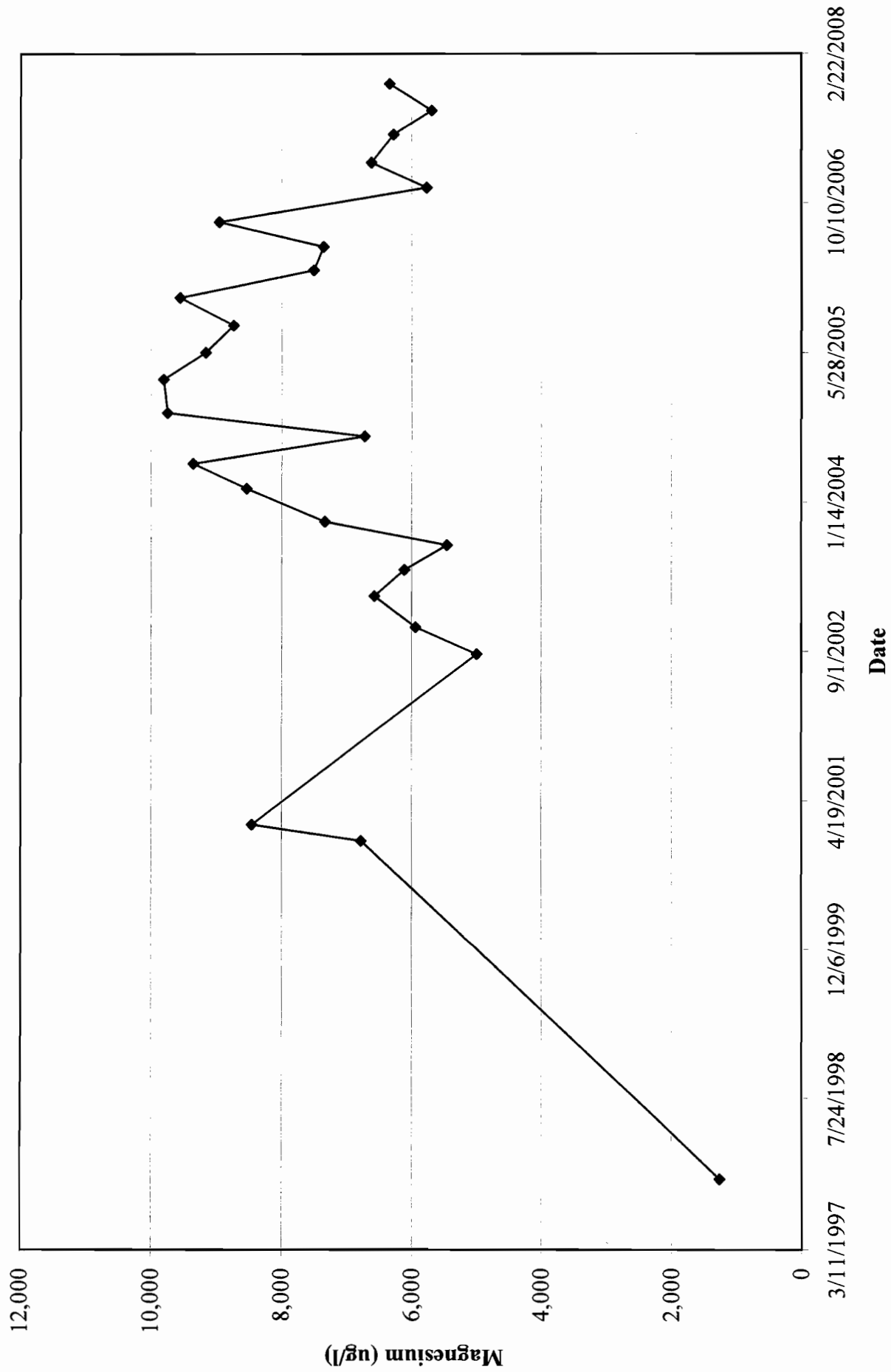
IRON IN MW-05I



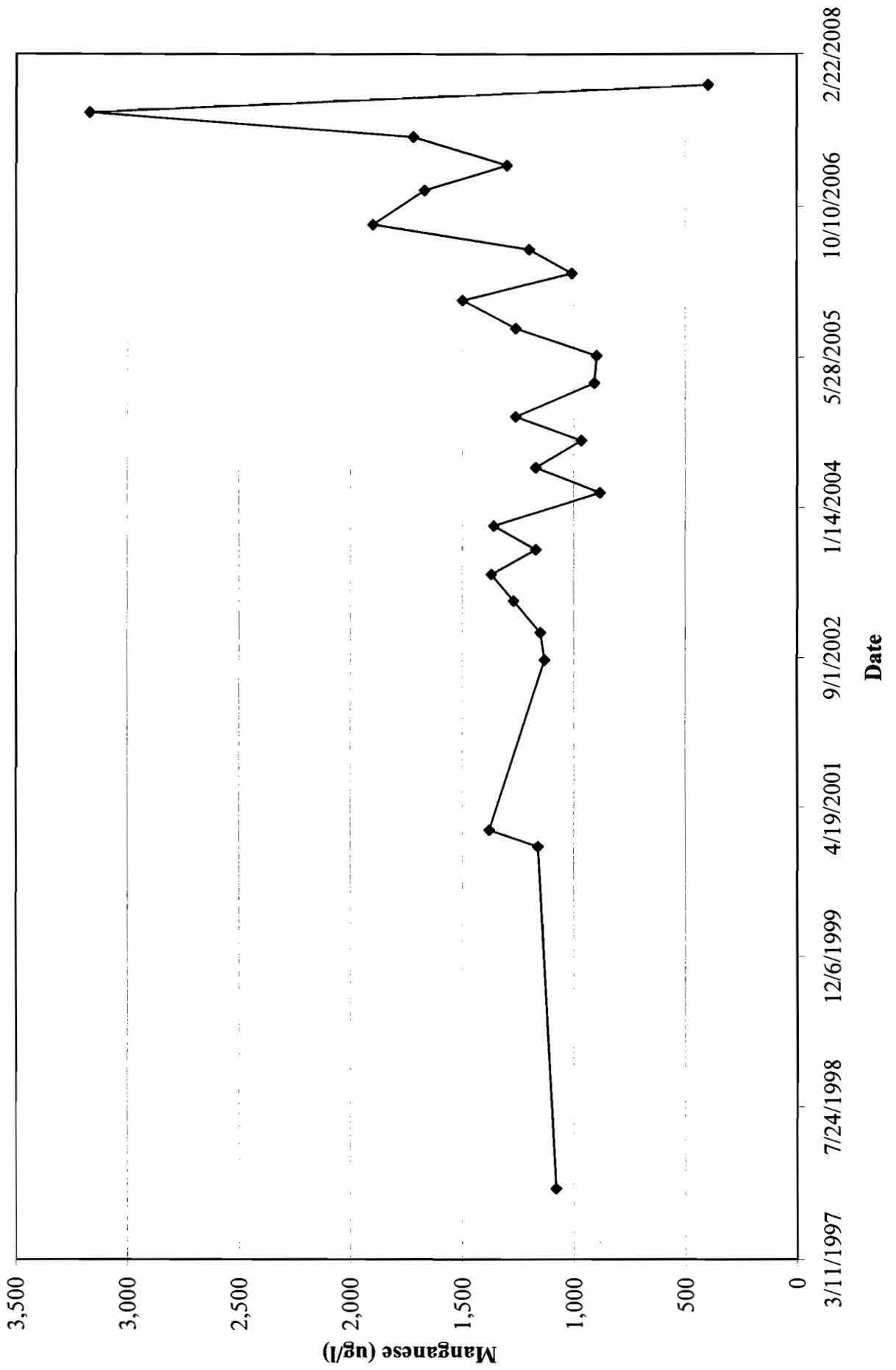
LEAD IN MW-05I



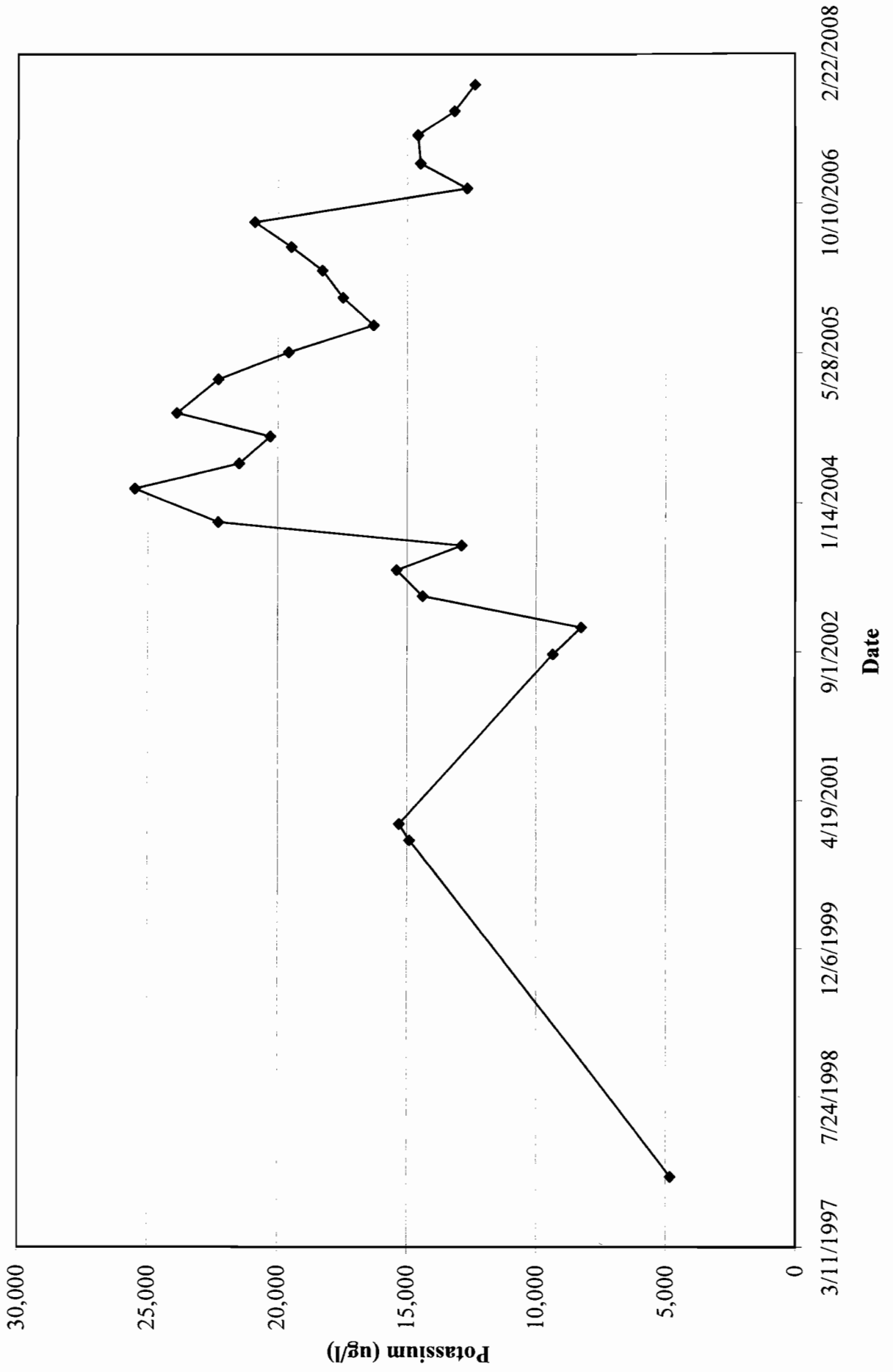
MAGNESIUM IN MW-05I



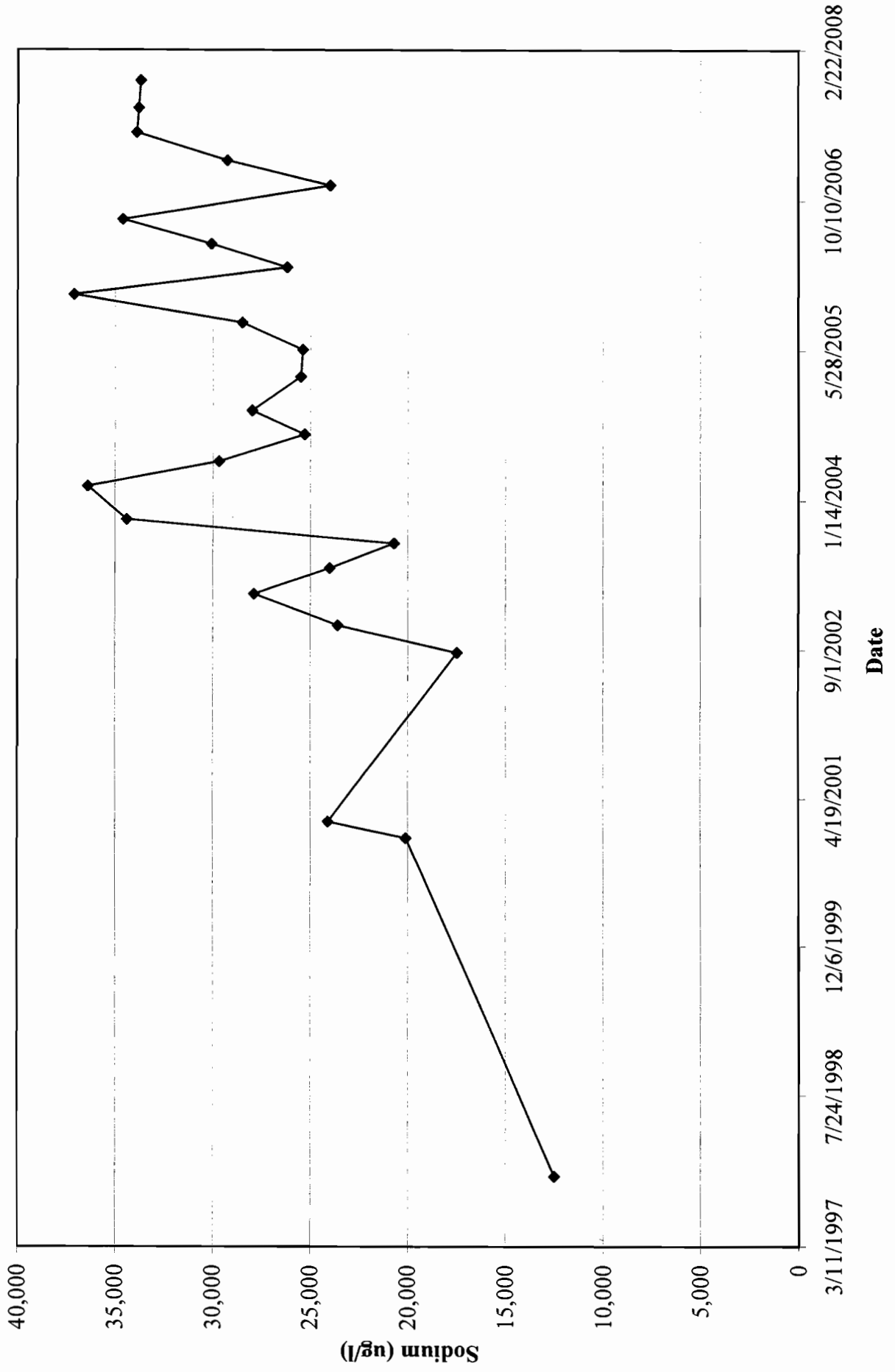
MANGANESE IN MW-05I



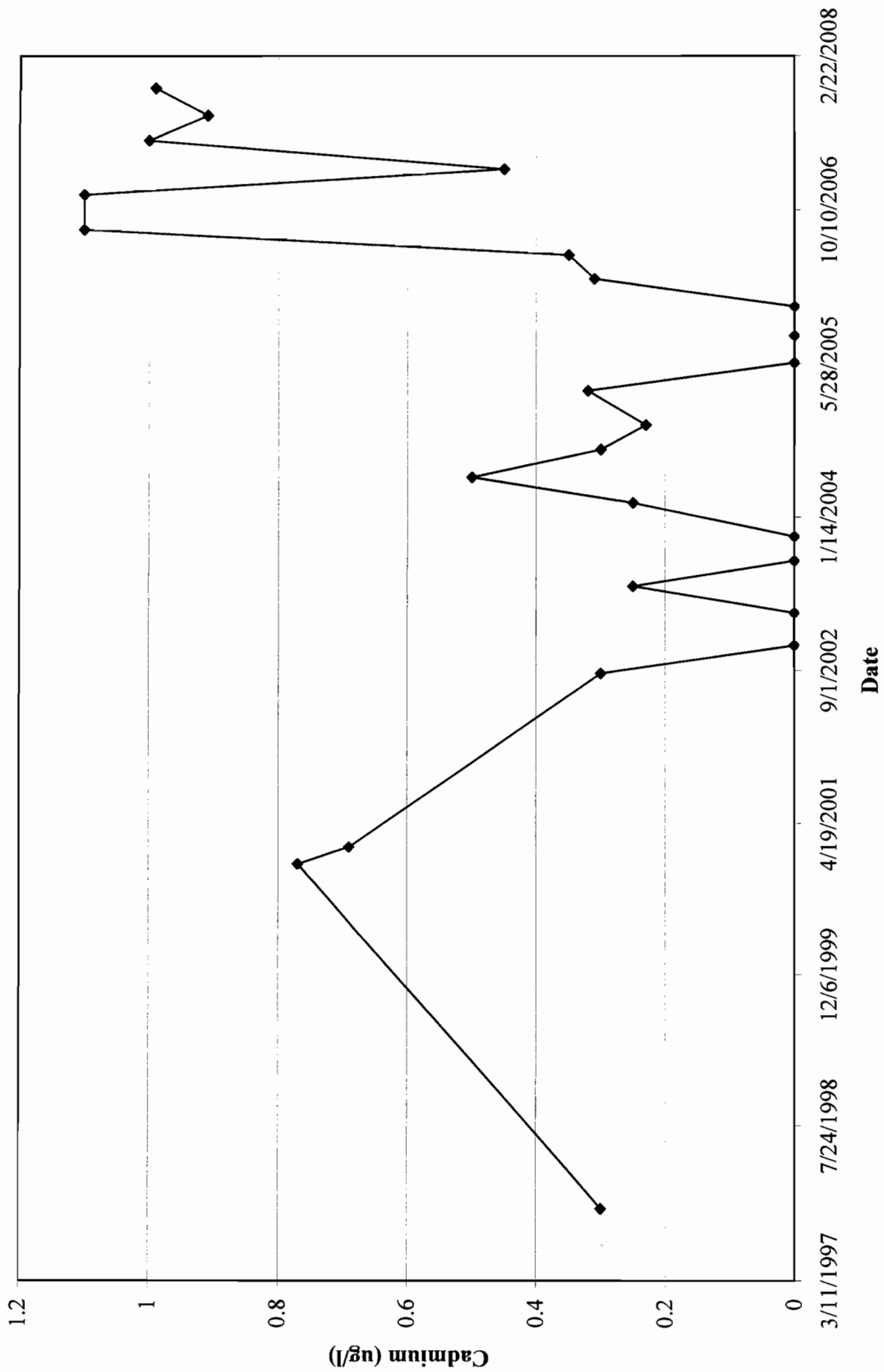
POTASSIUM IN MW-05I



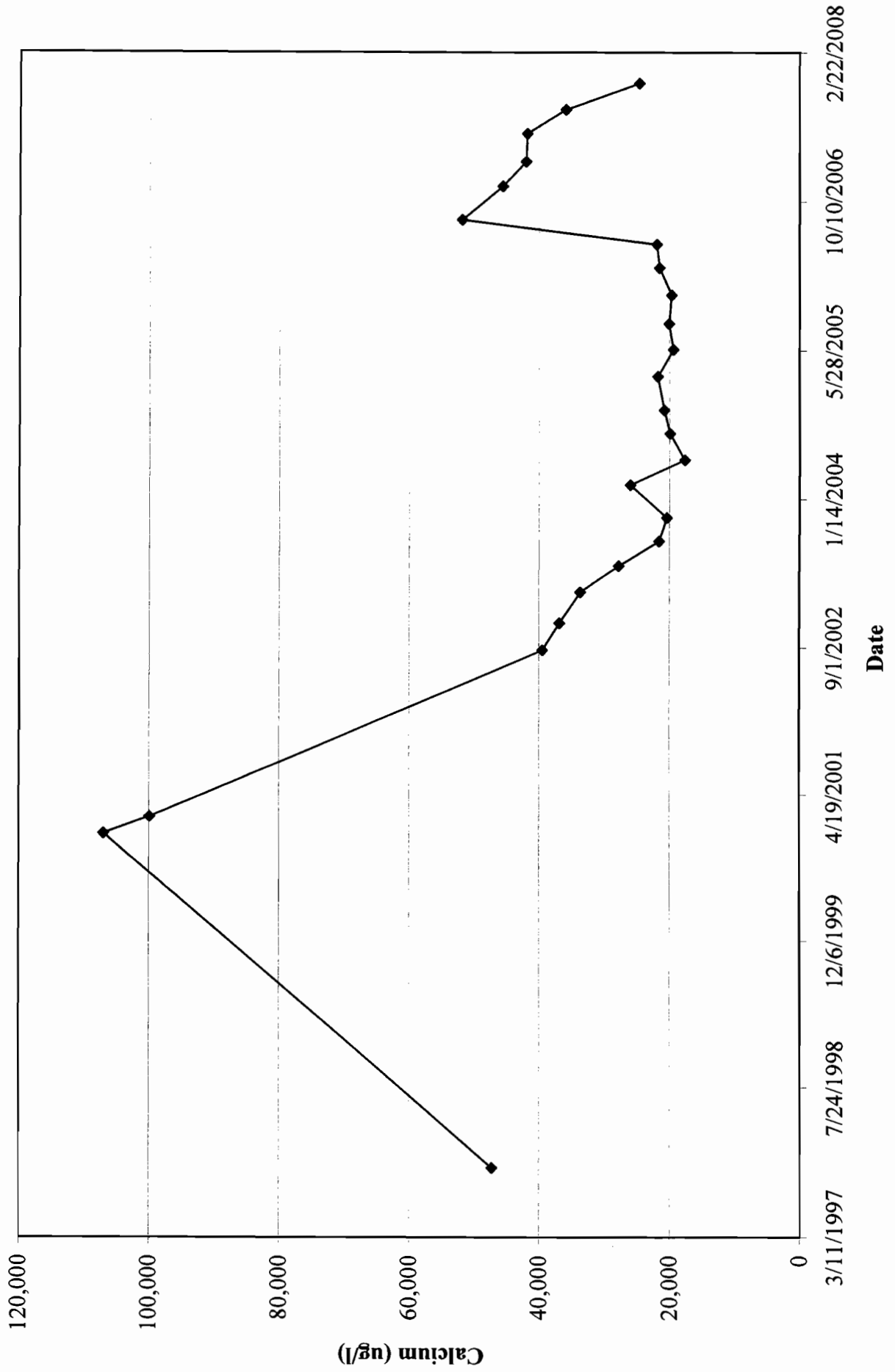
SODIUM IN MW-05I



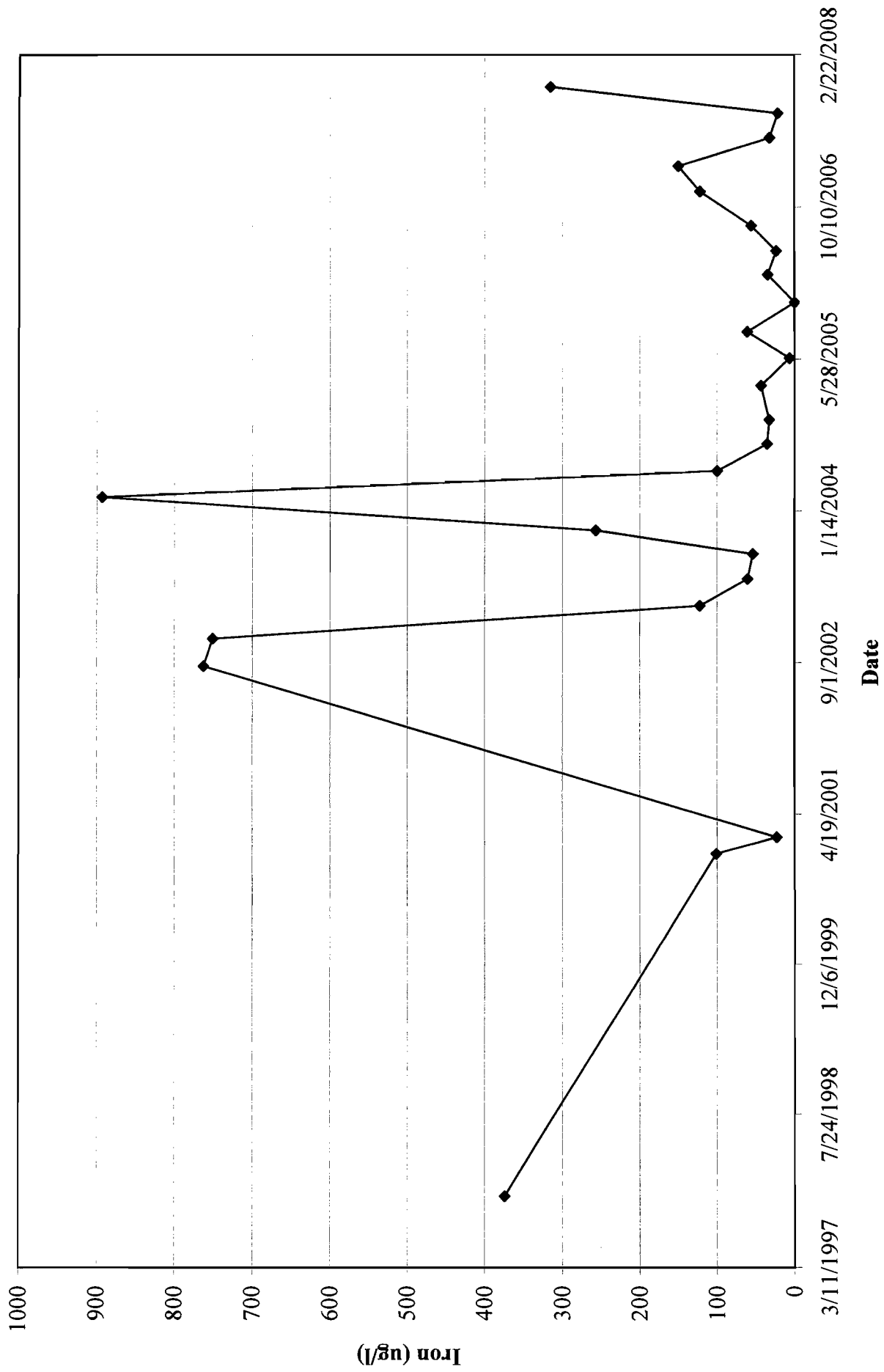
CADMIUM IN MW-05D



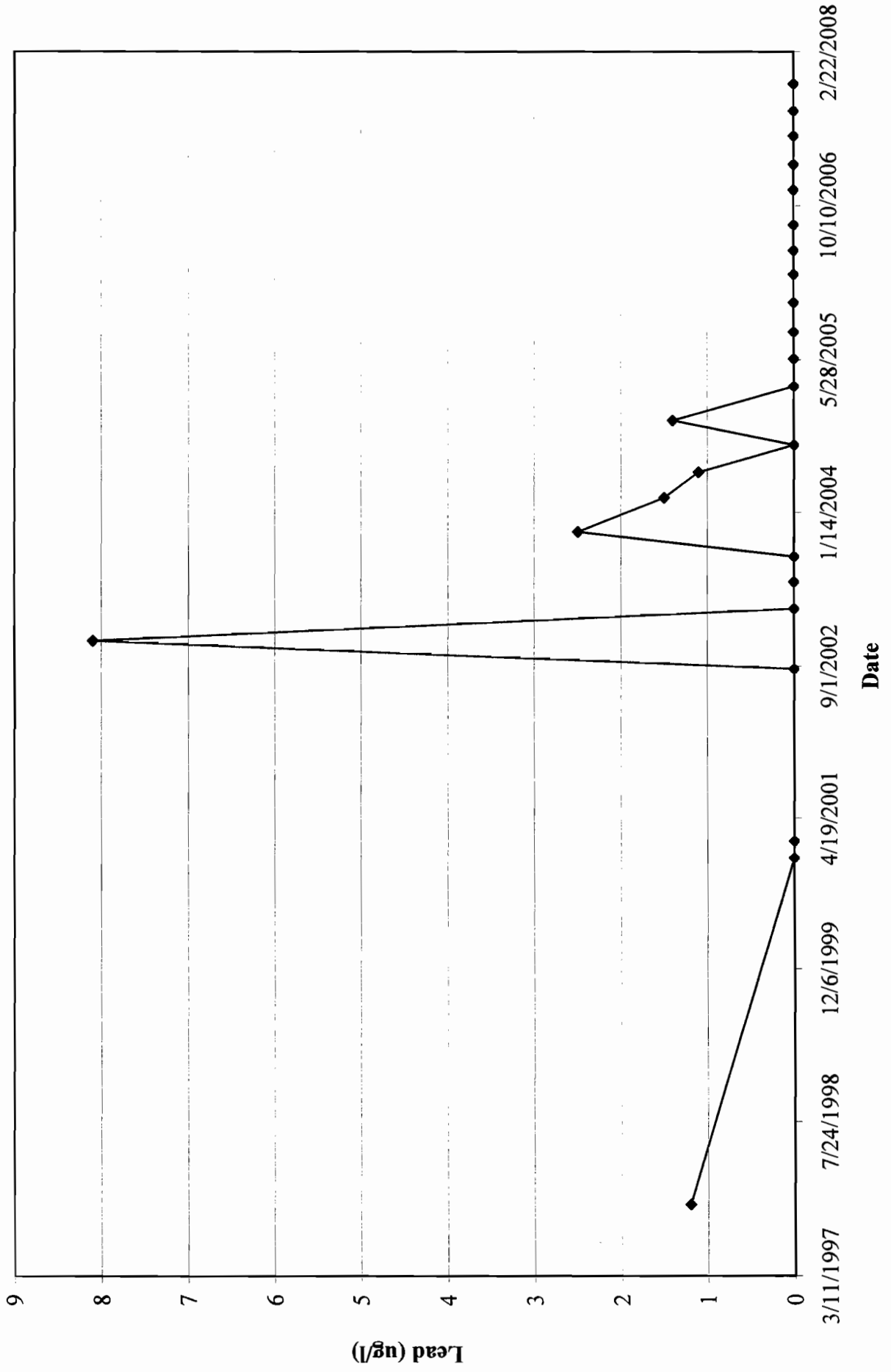
CALCIUM IN MW-05D



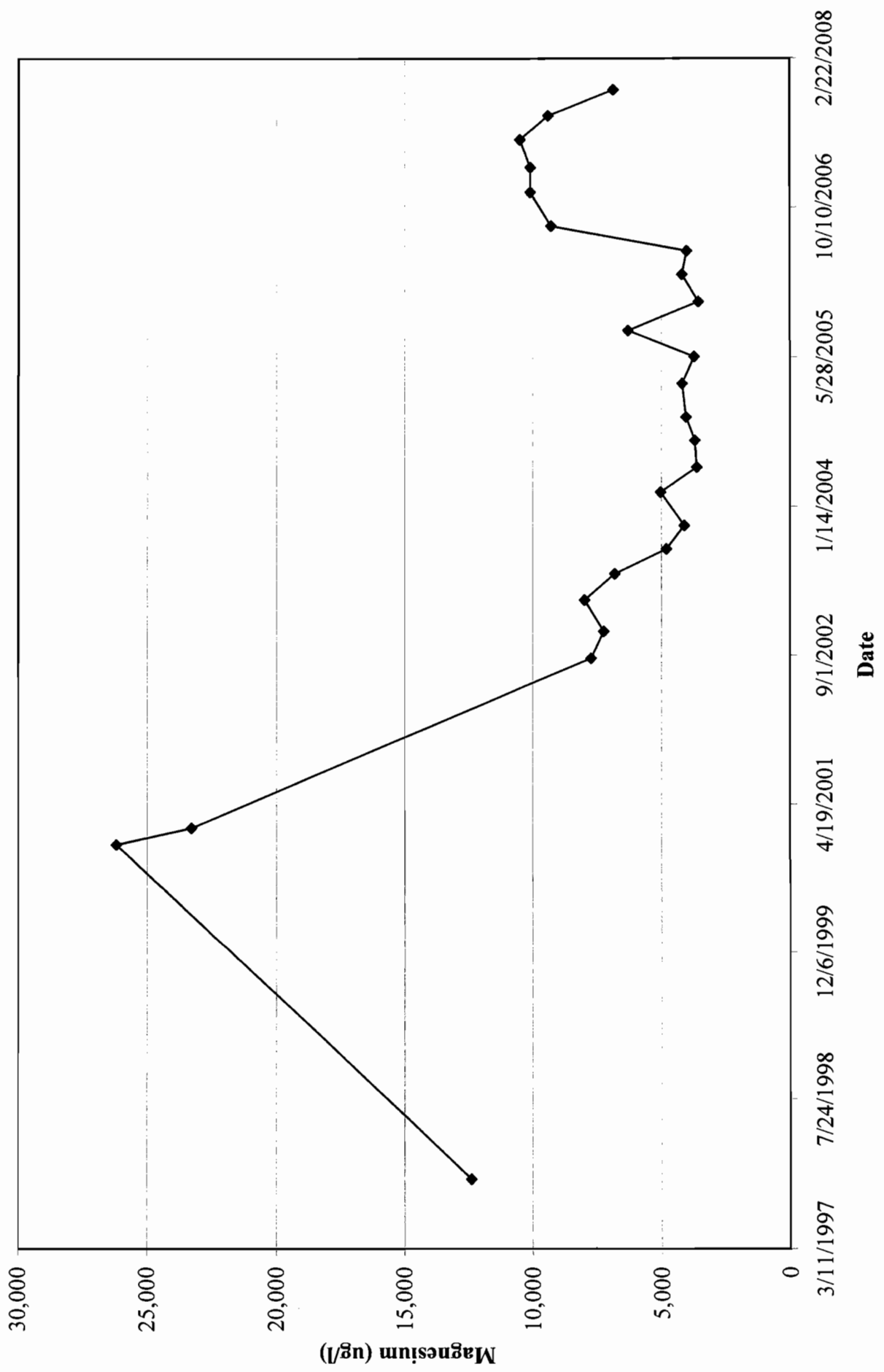
IRON IN MW-05D



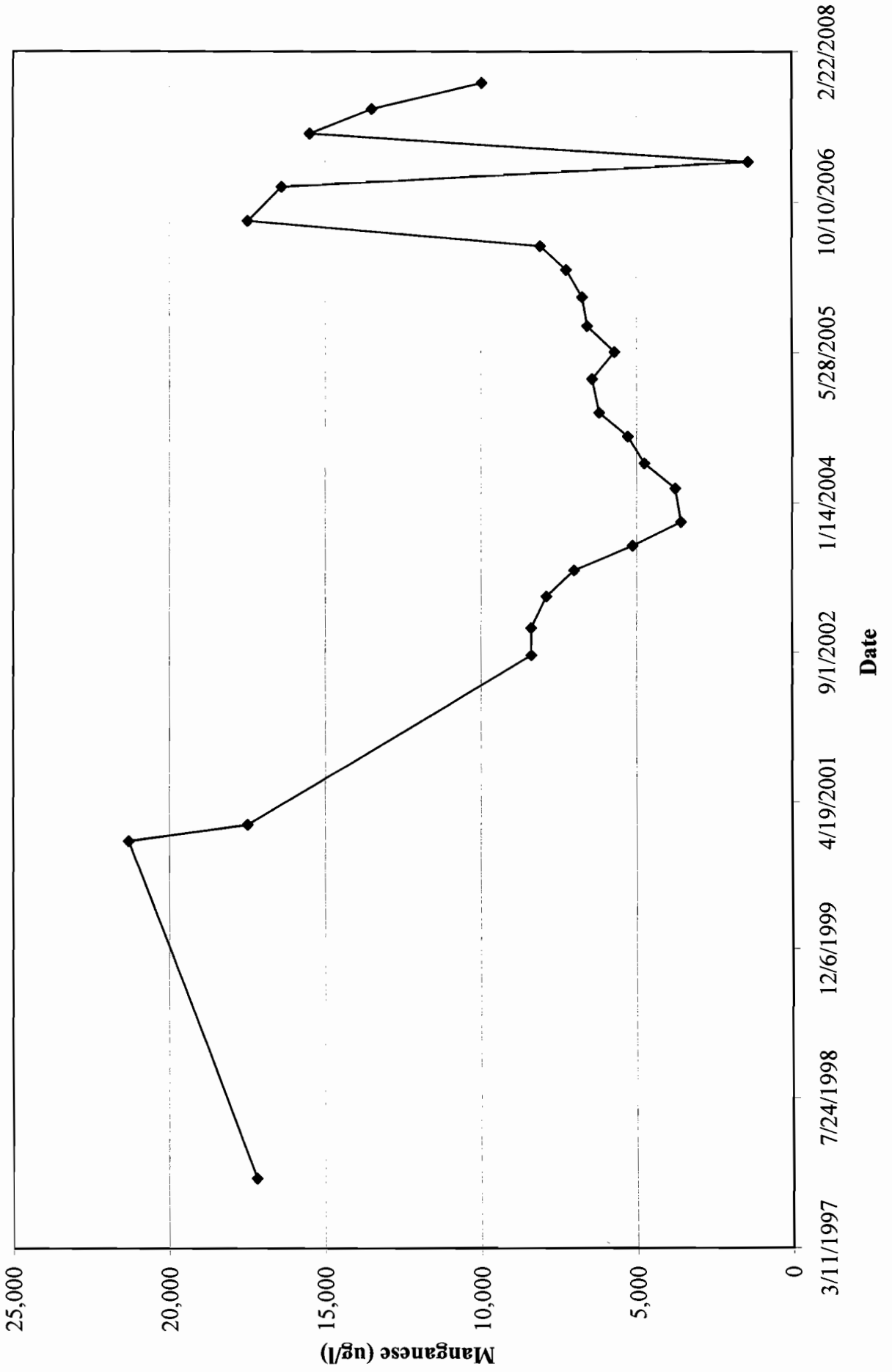
LEAD IN MW-05D



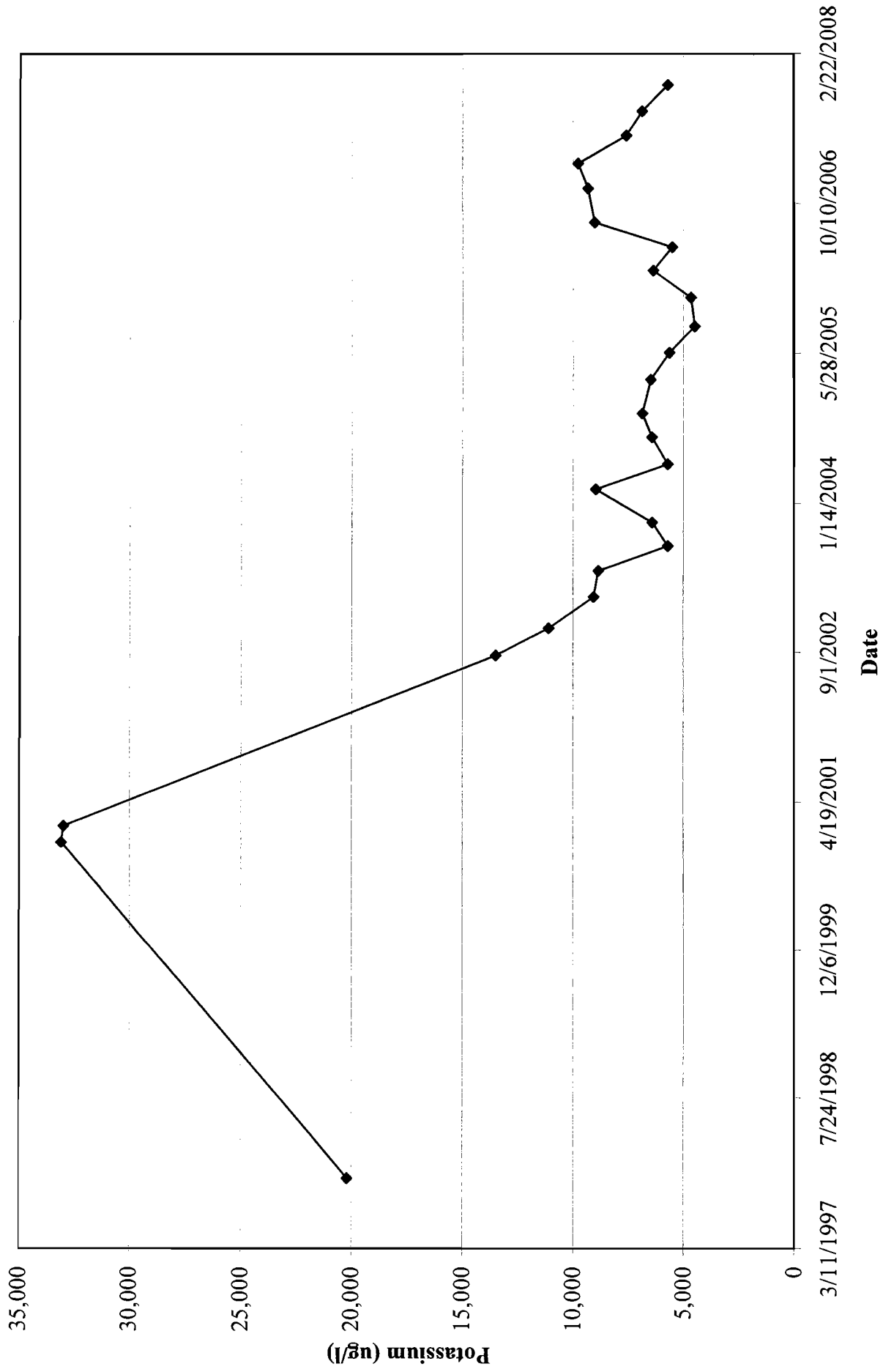
MAGNESIUM IN MW-05D



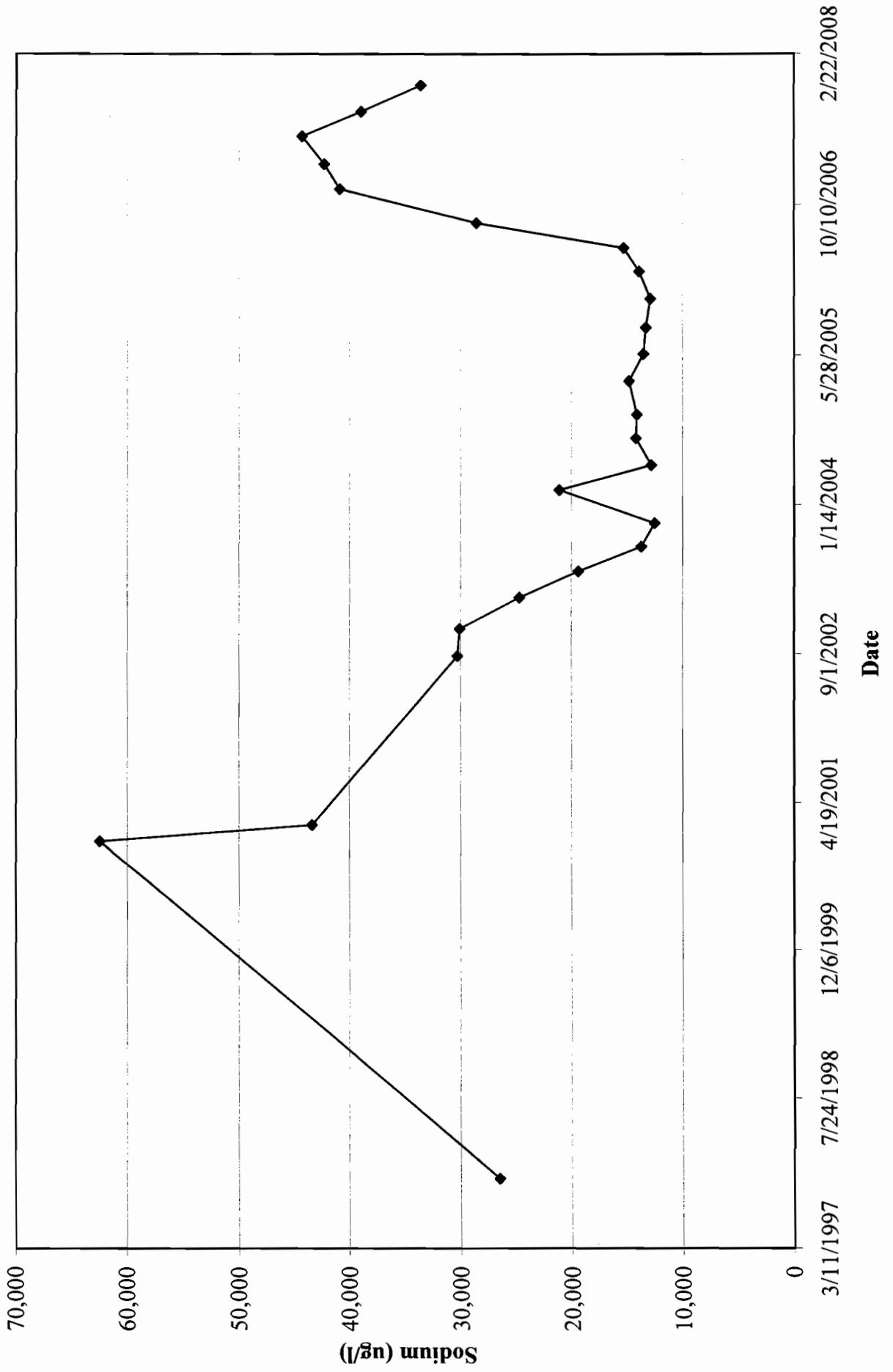
MANGANESE IN MW-05D



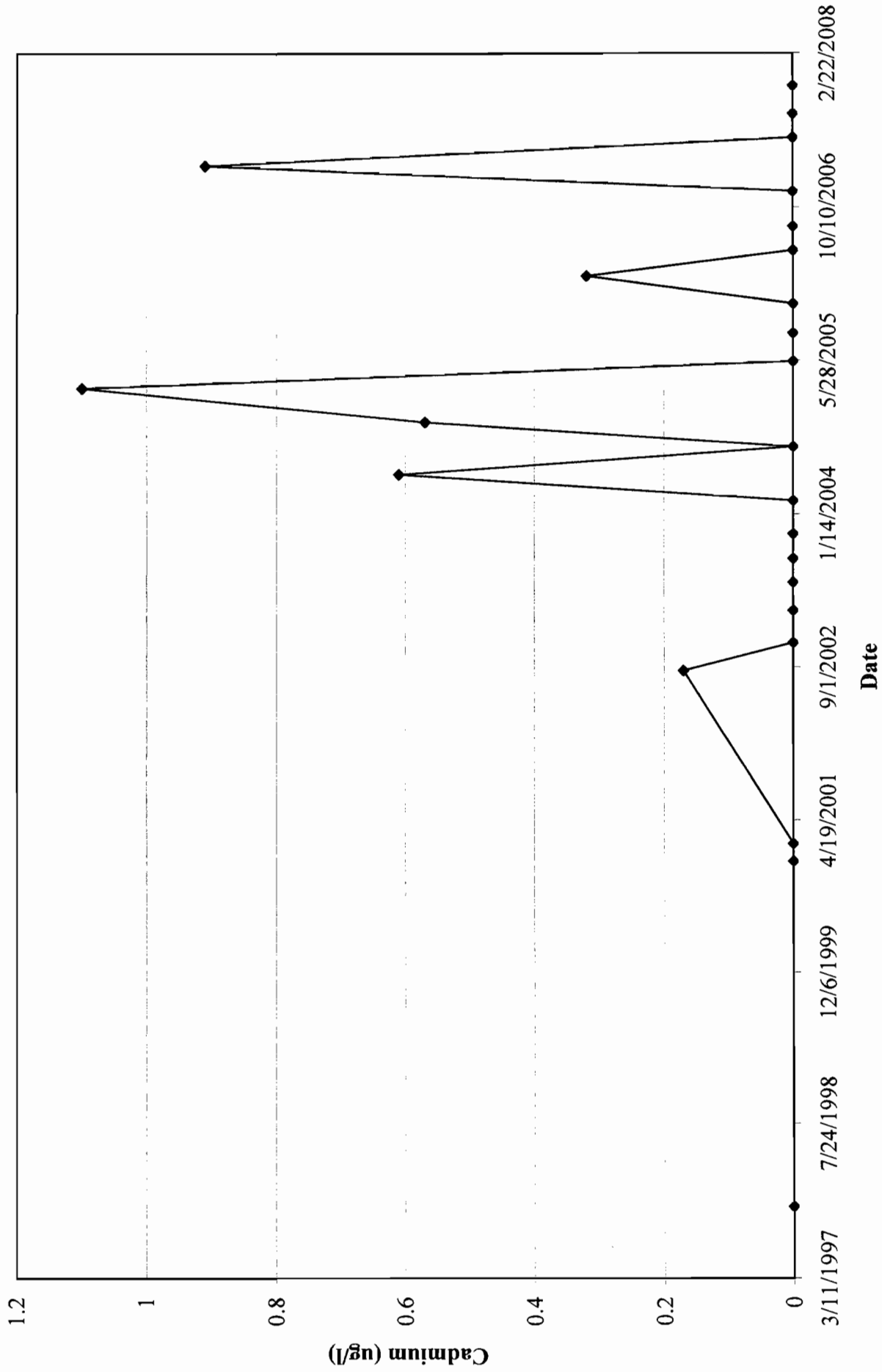
POTASSIUM IN MW-05D



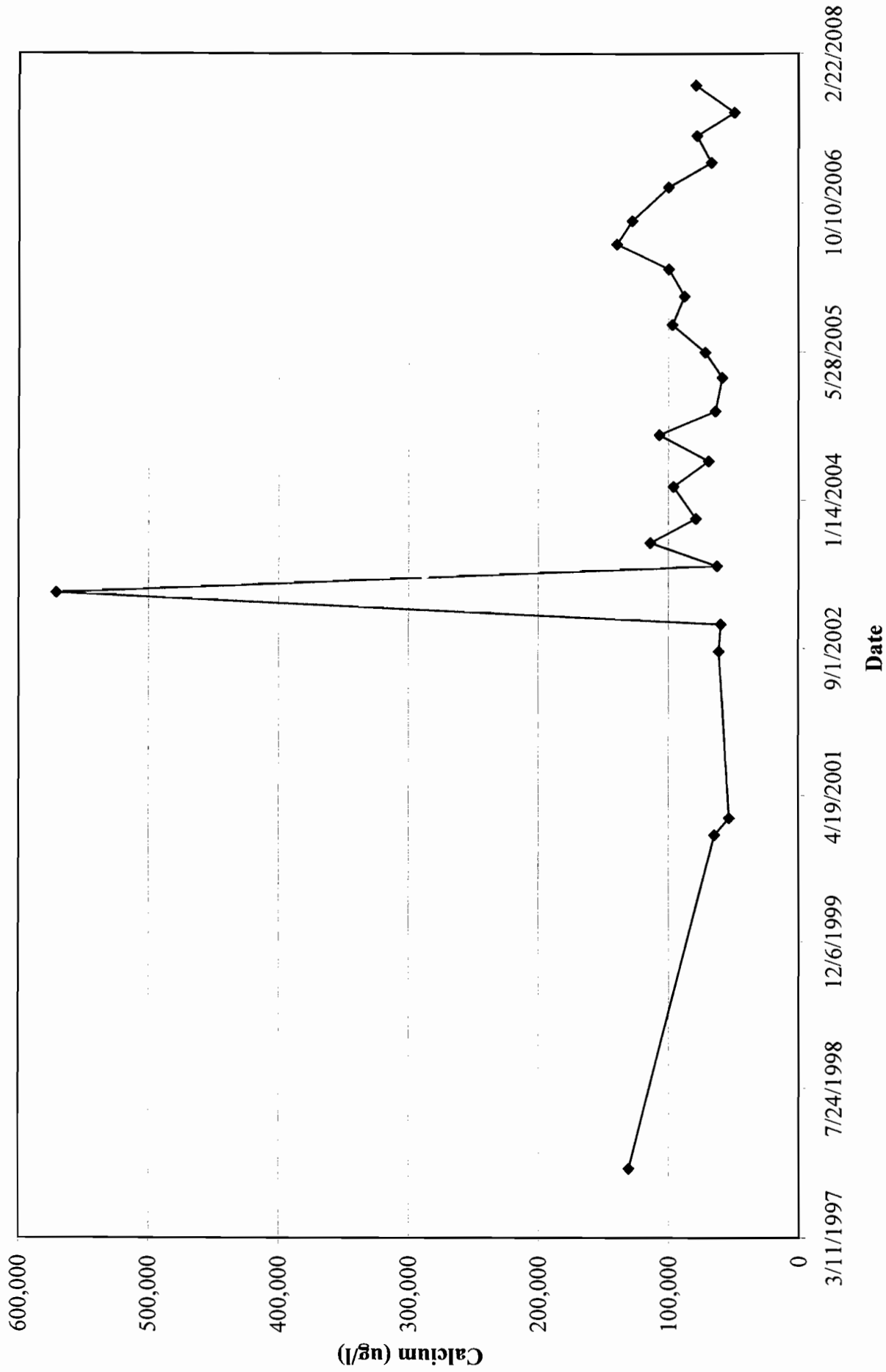
SODIUM IN MW-05D



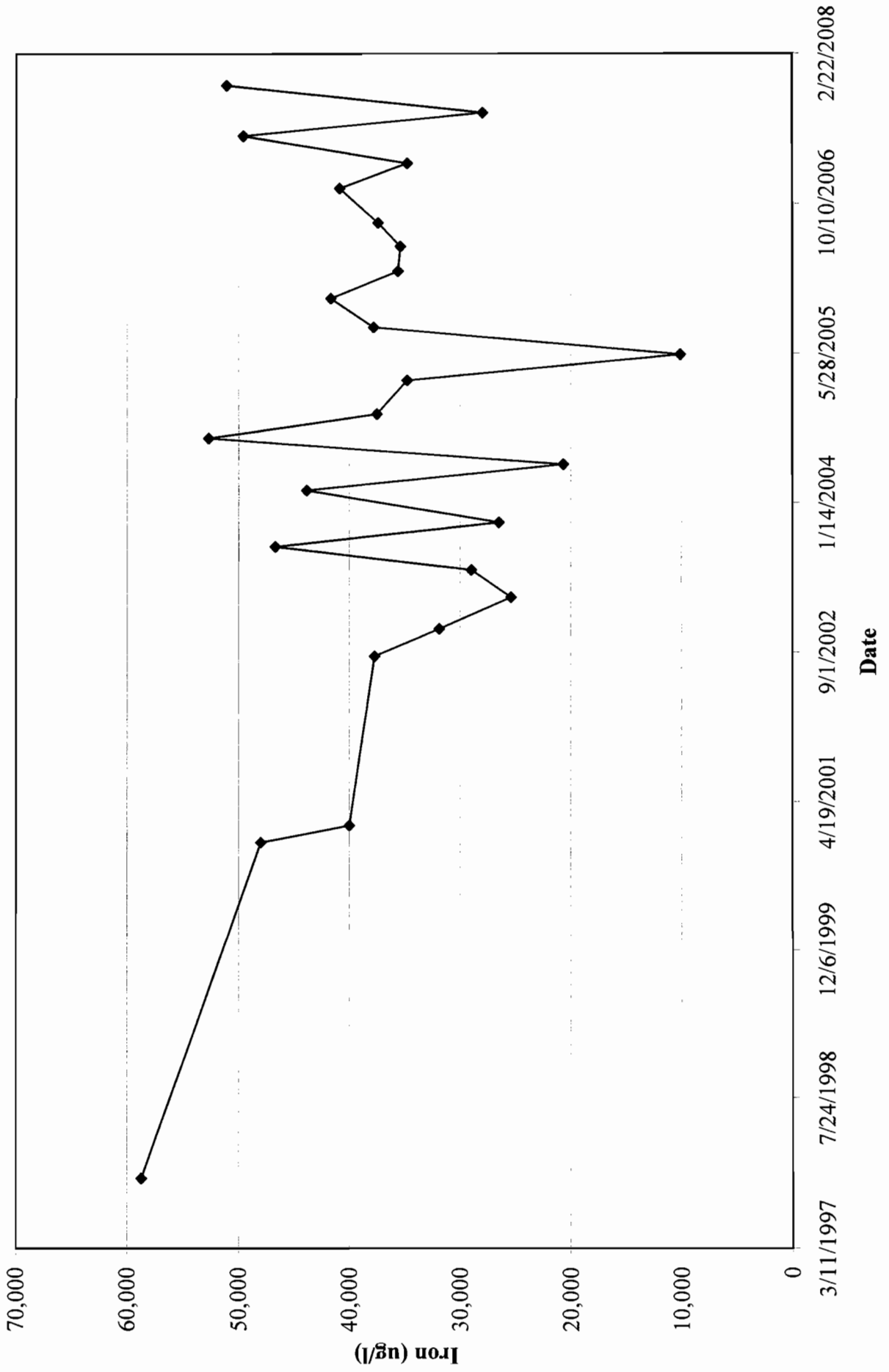
CADMIUM IN MW-06S



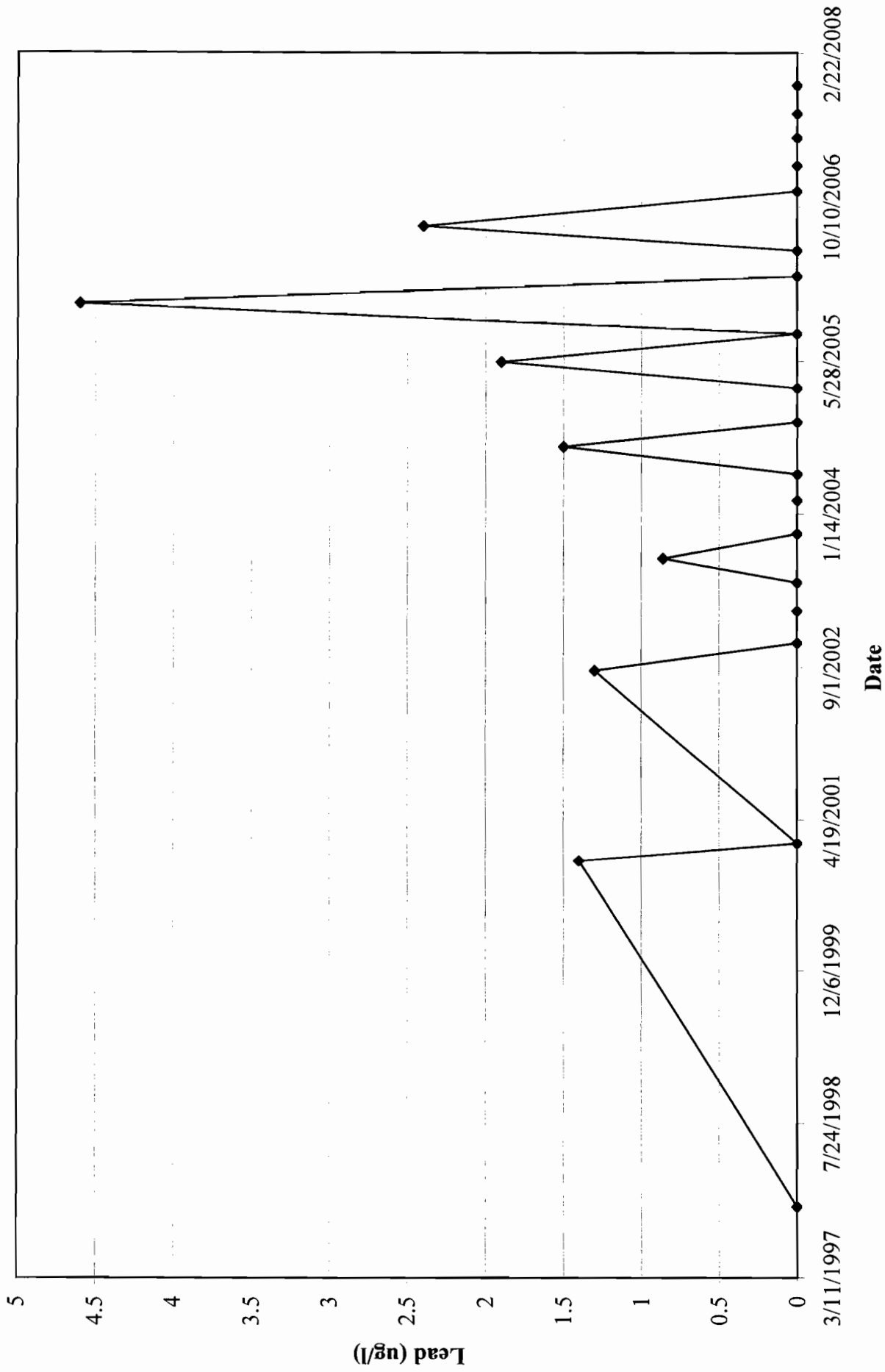
CALCIUM IN MW-06S



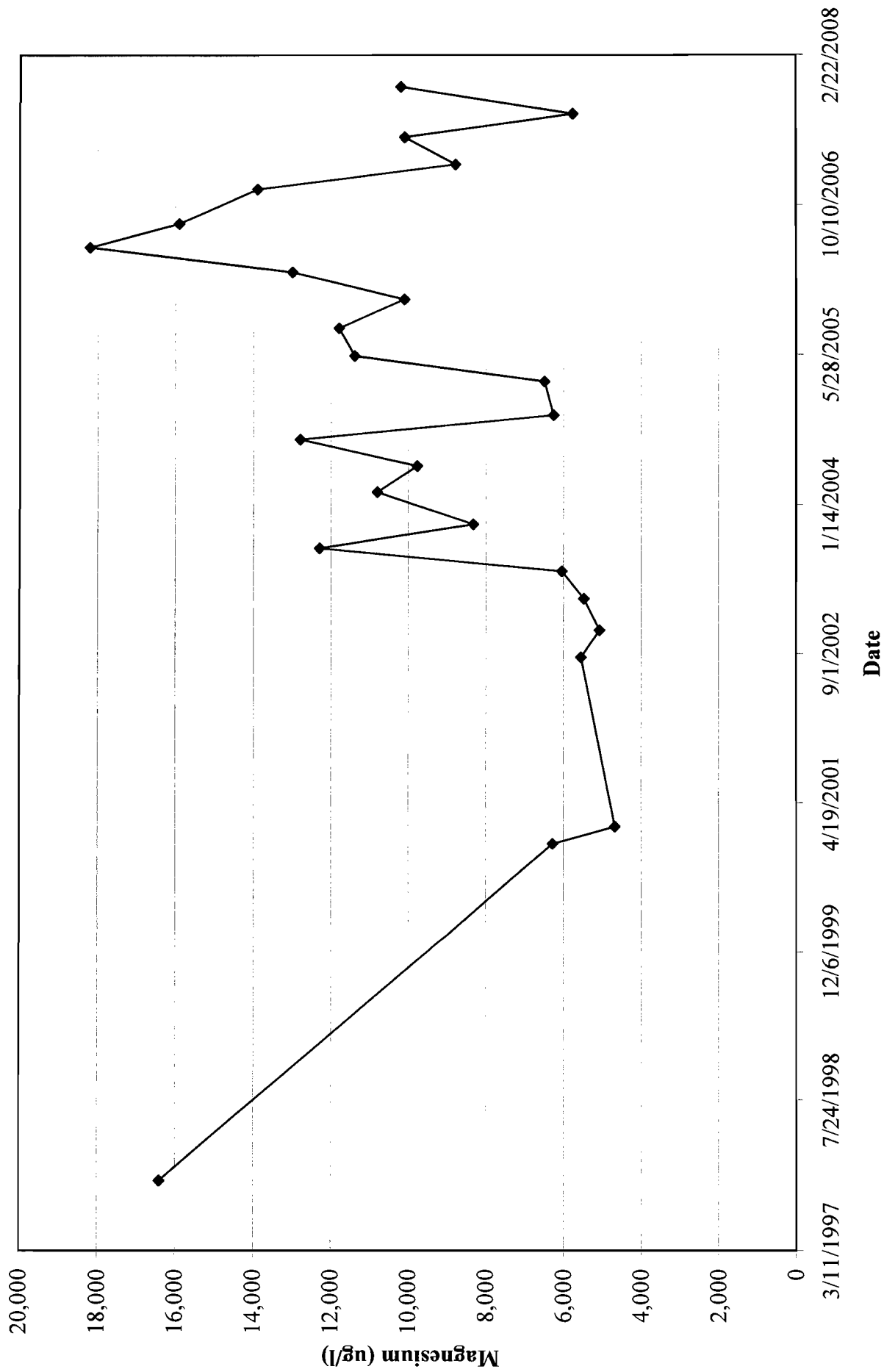
IRON IN MW-06S



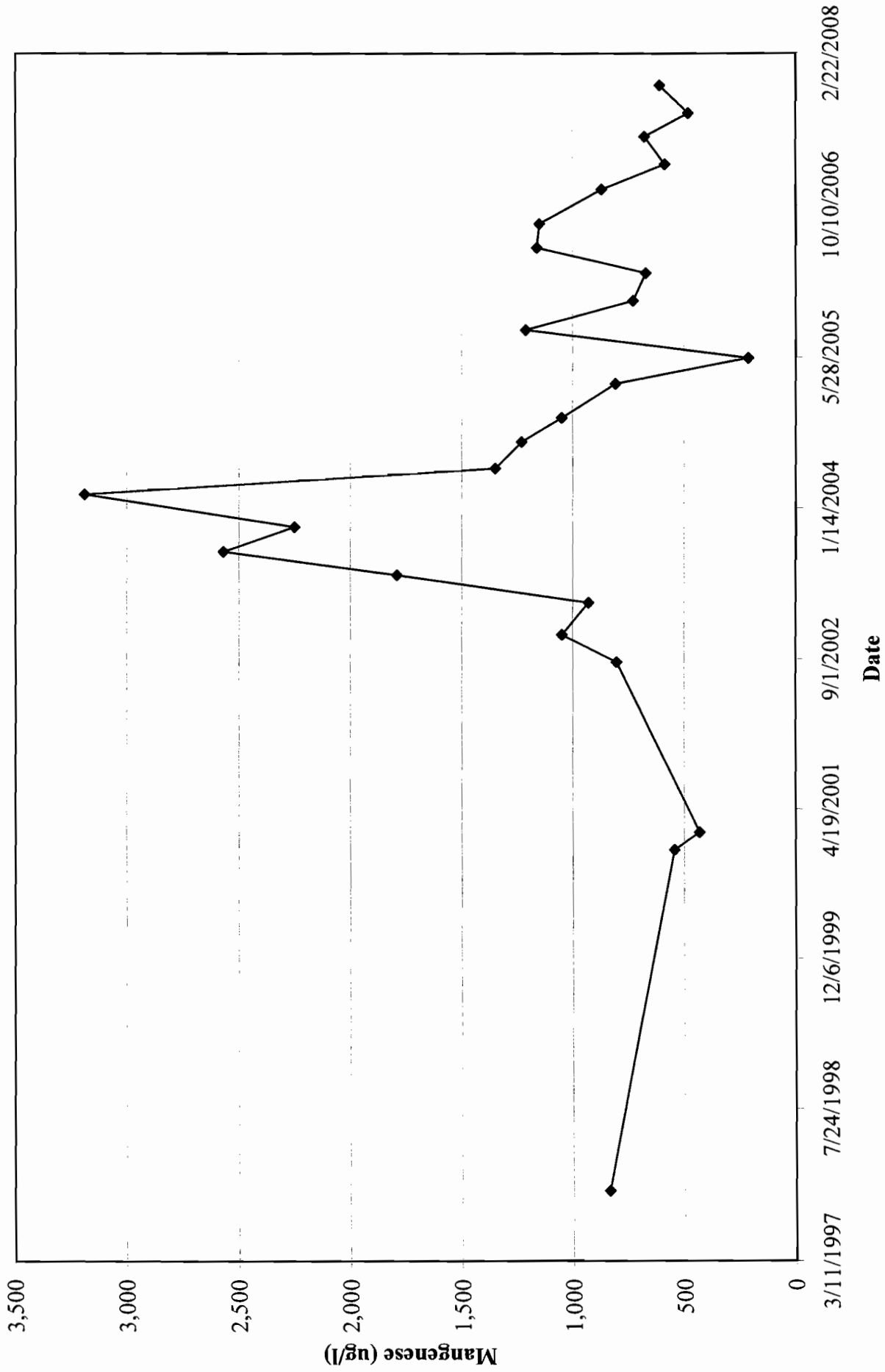
LEAD IN MW-06S



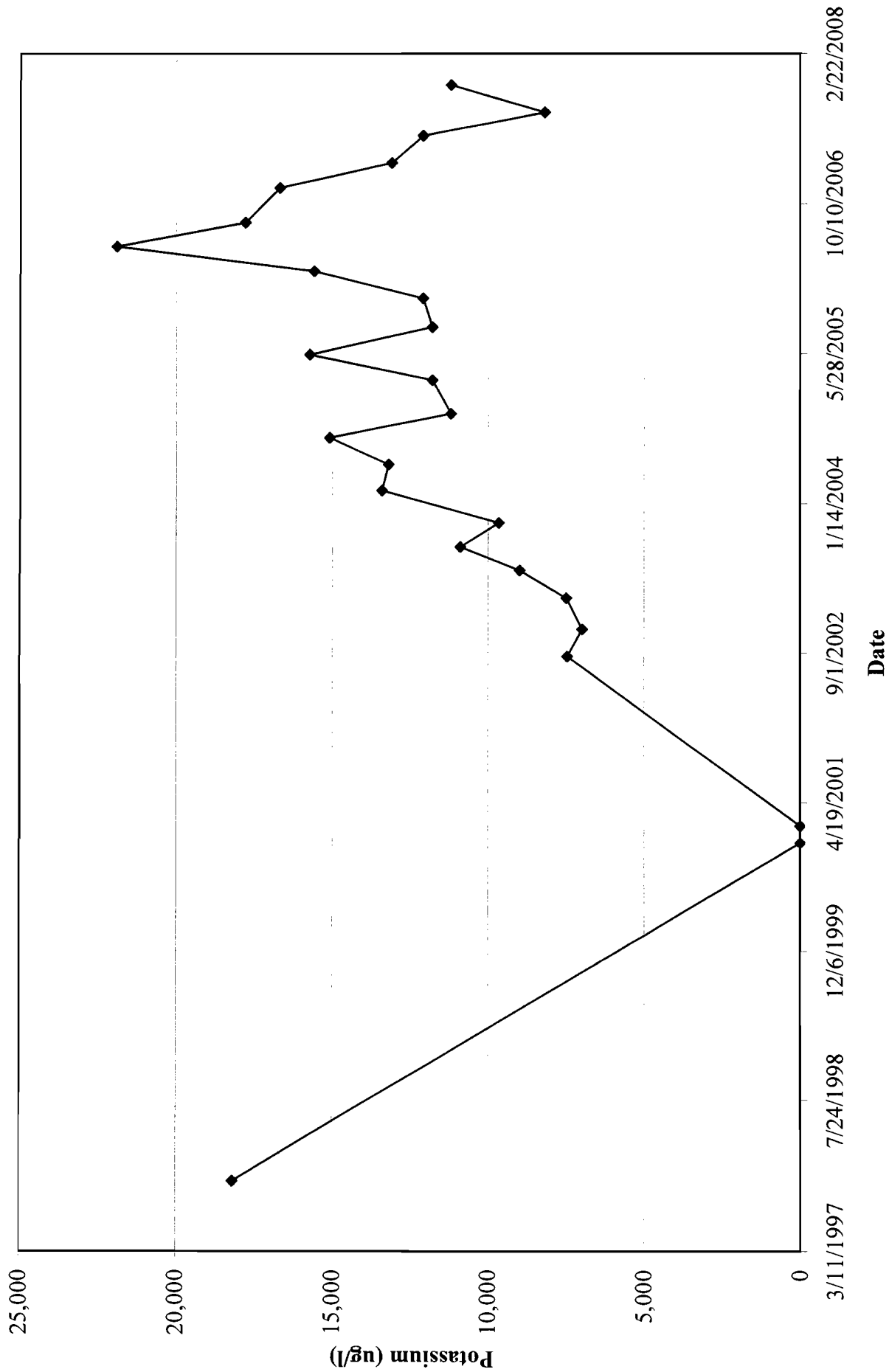
MAGNESIUM IN MW-06S



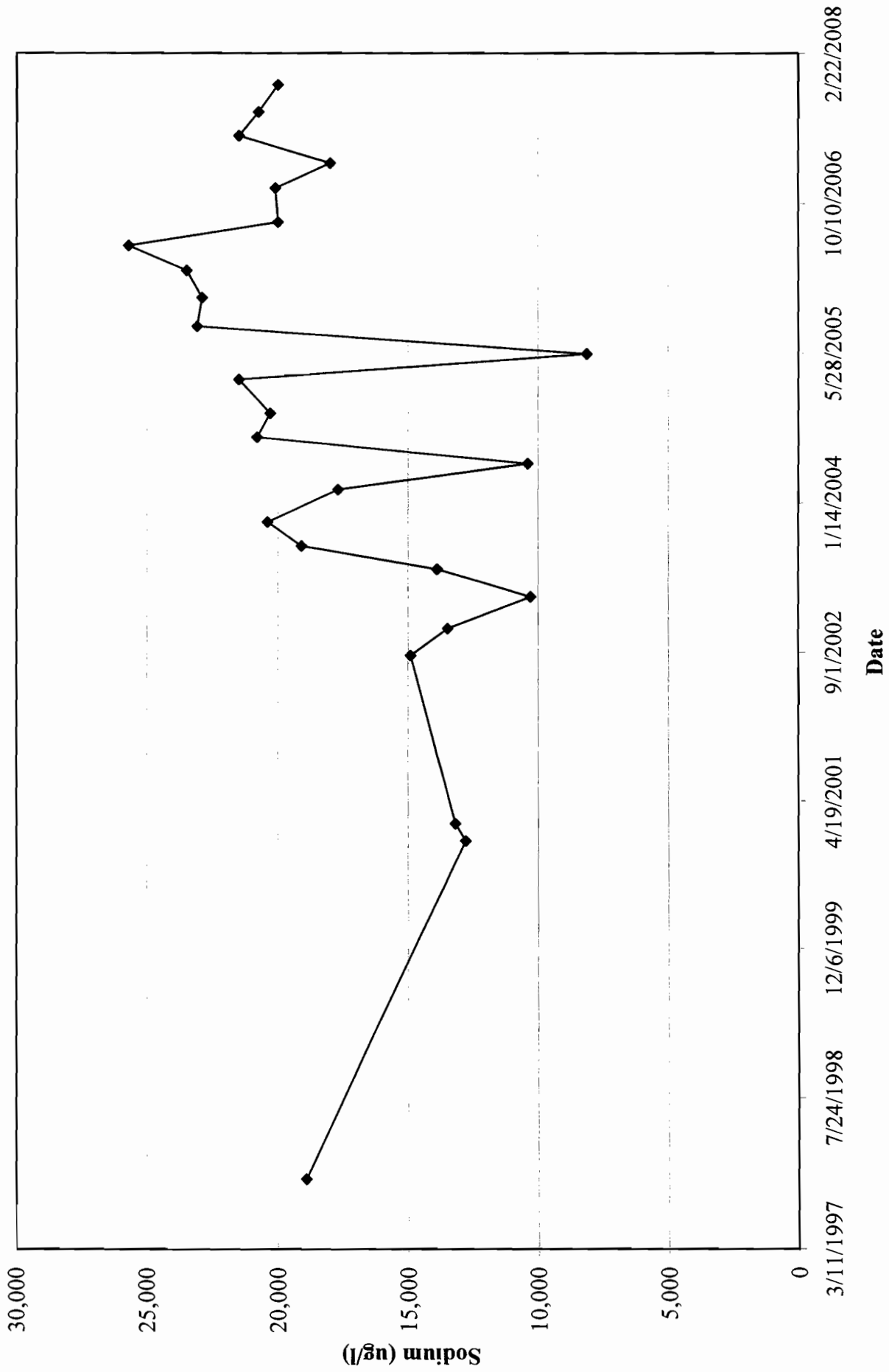
MANGANESE IN MW-06S



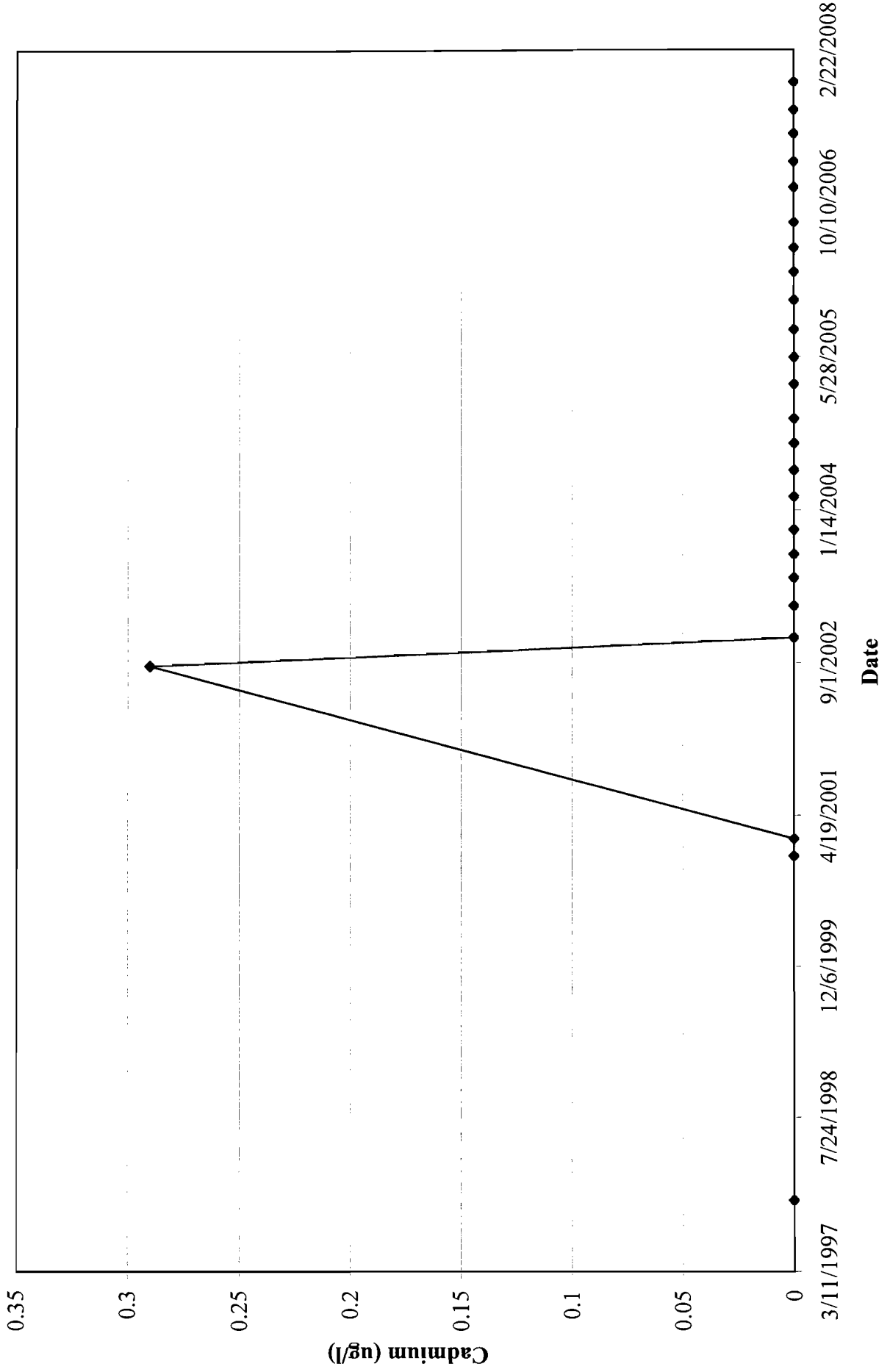
POTASSIUM IN MW-06S



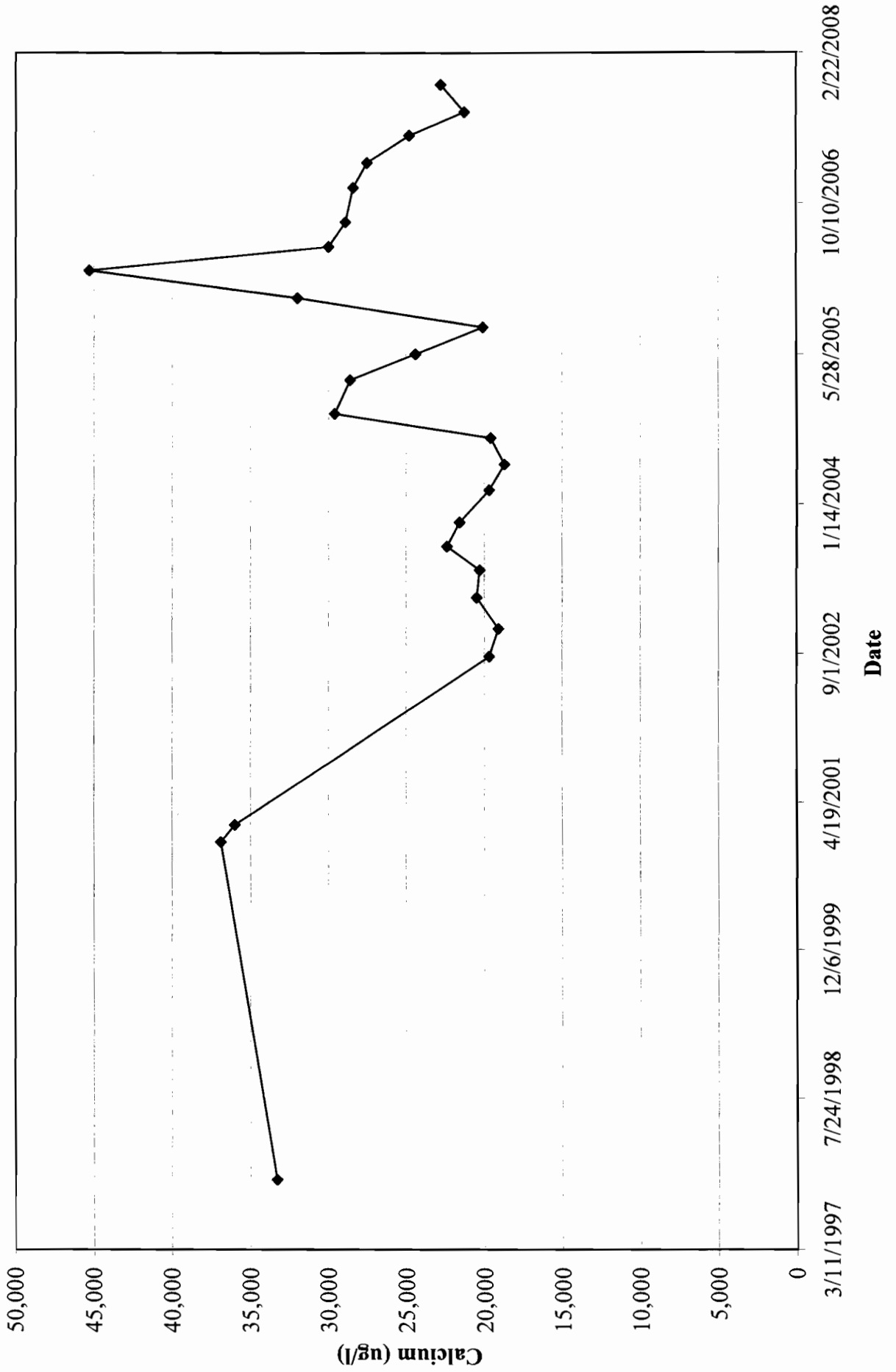
SODIUM IN MW-06S



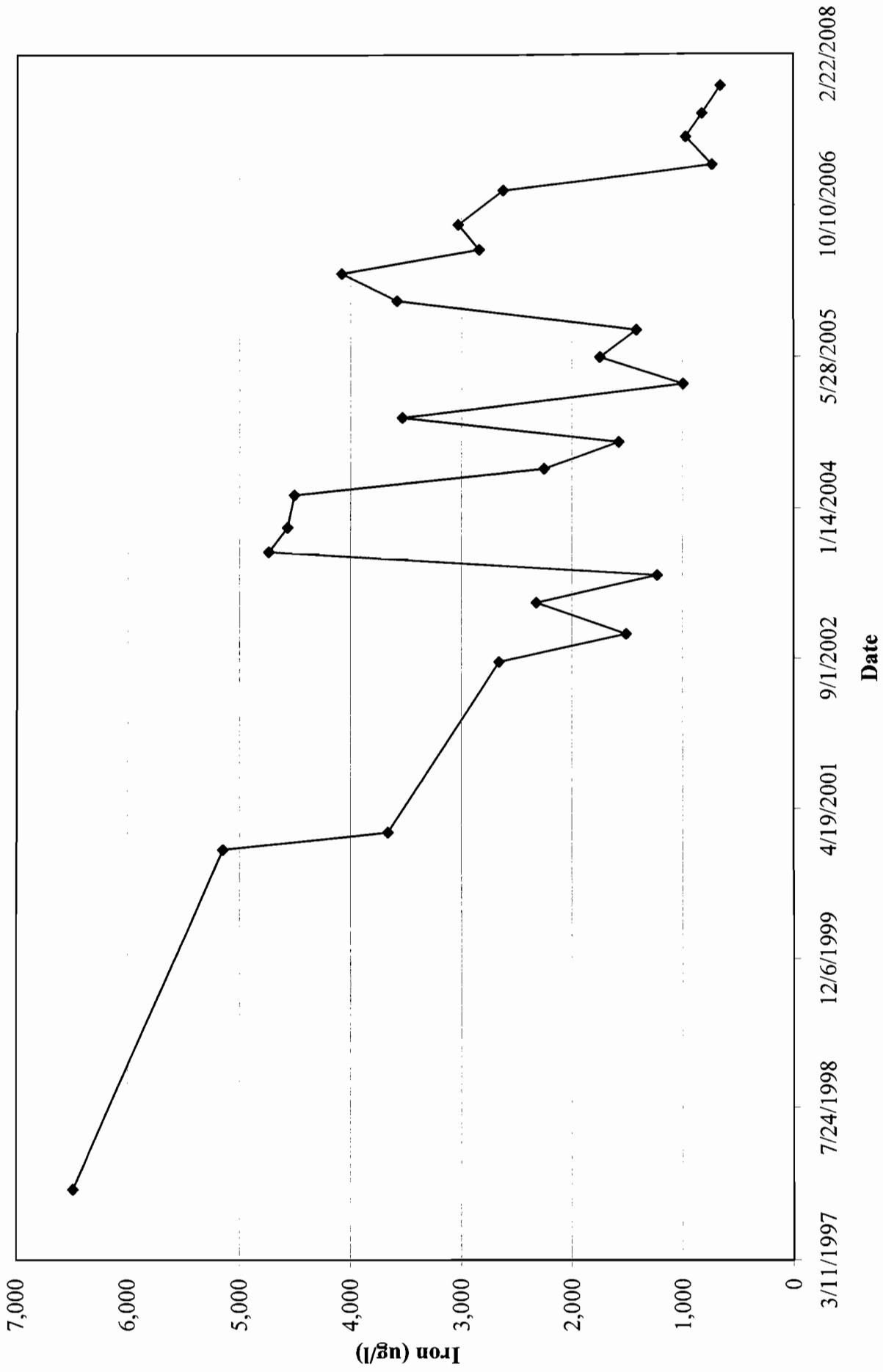
CADMIUM IN MW-06I



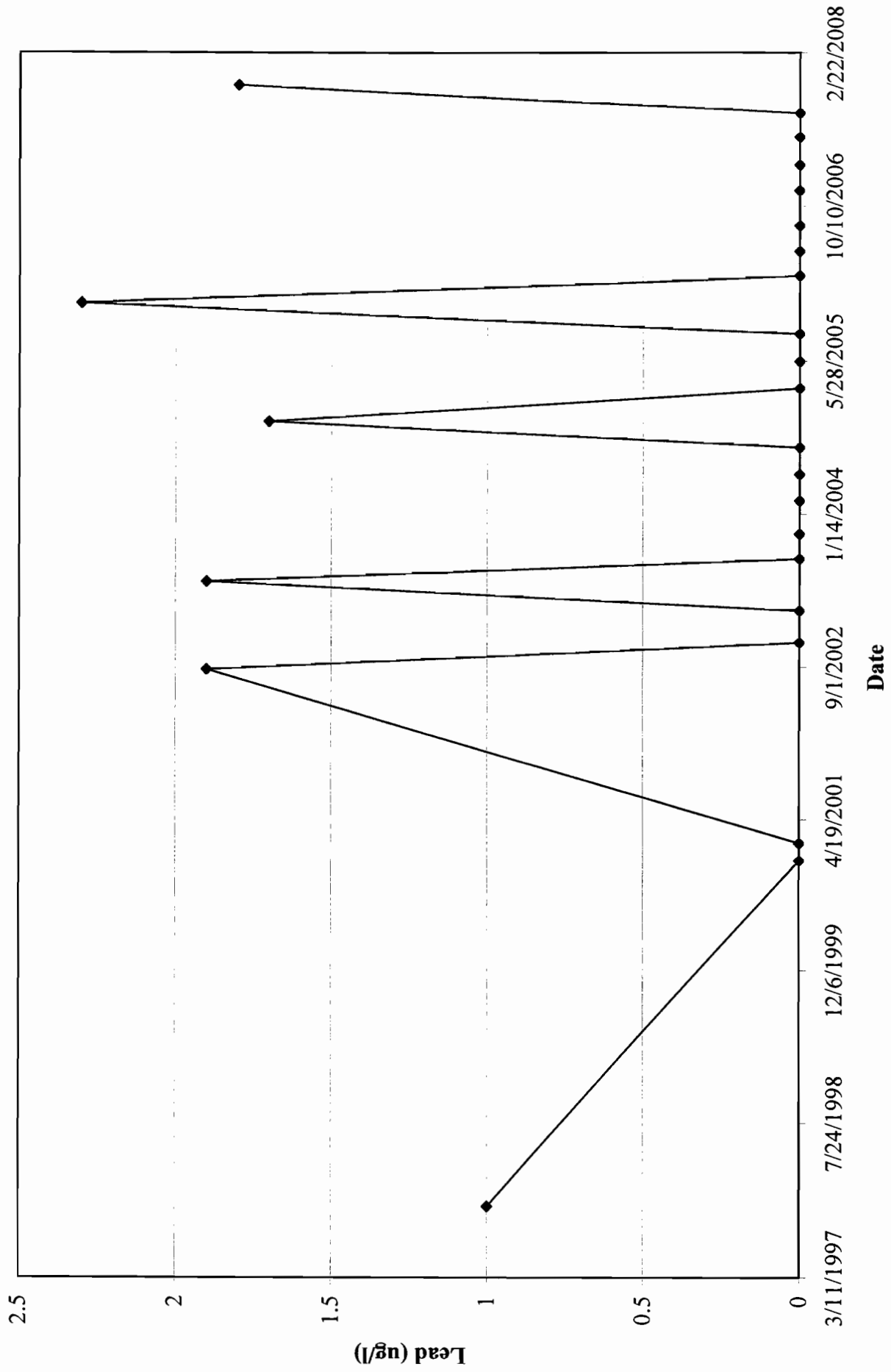
CALCIUM IN MW-06I



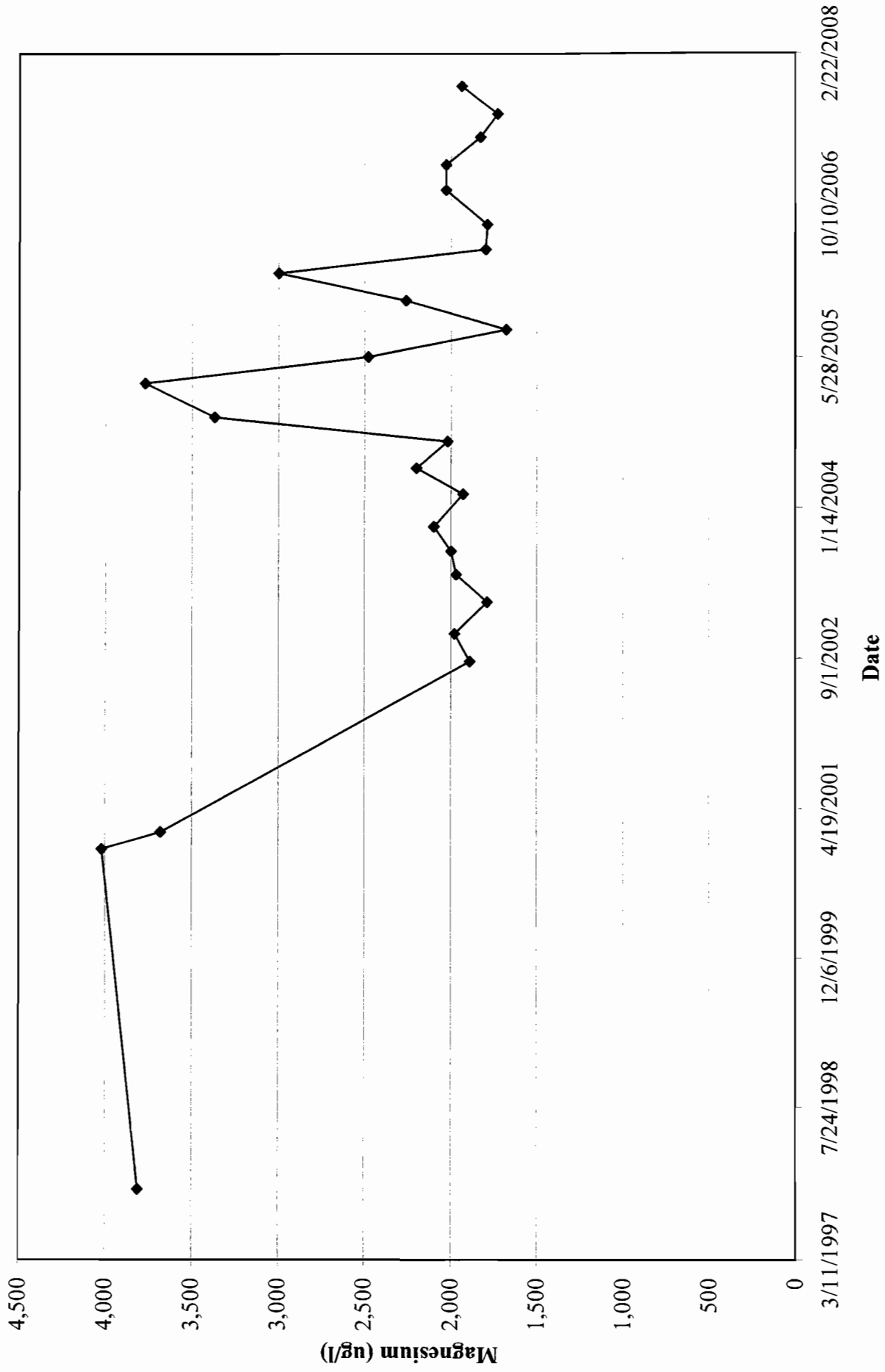
IRON IN MW-06I



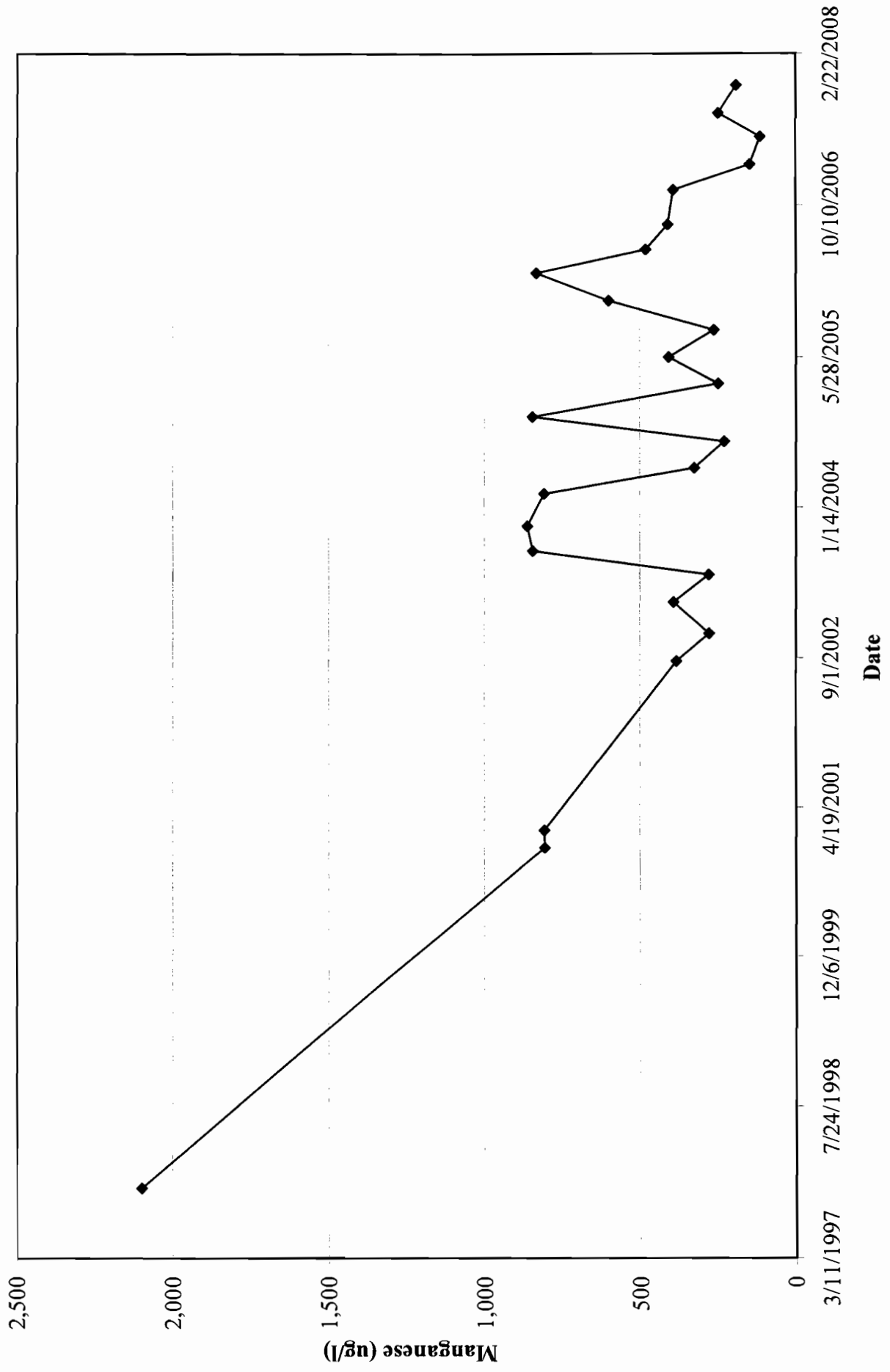
LEAD IN MW-06I



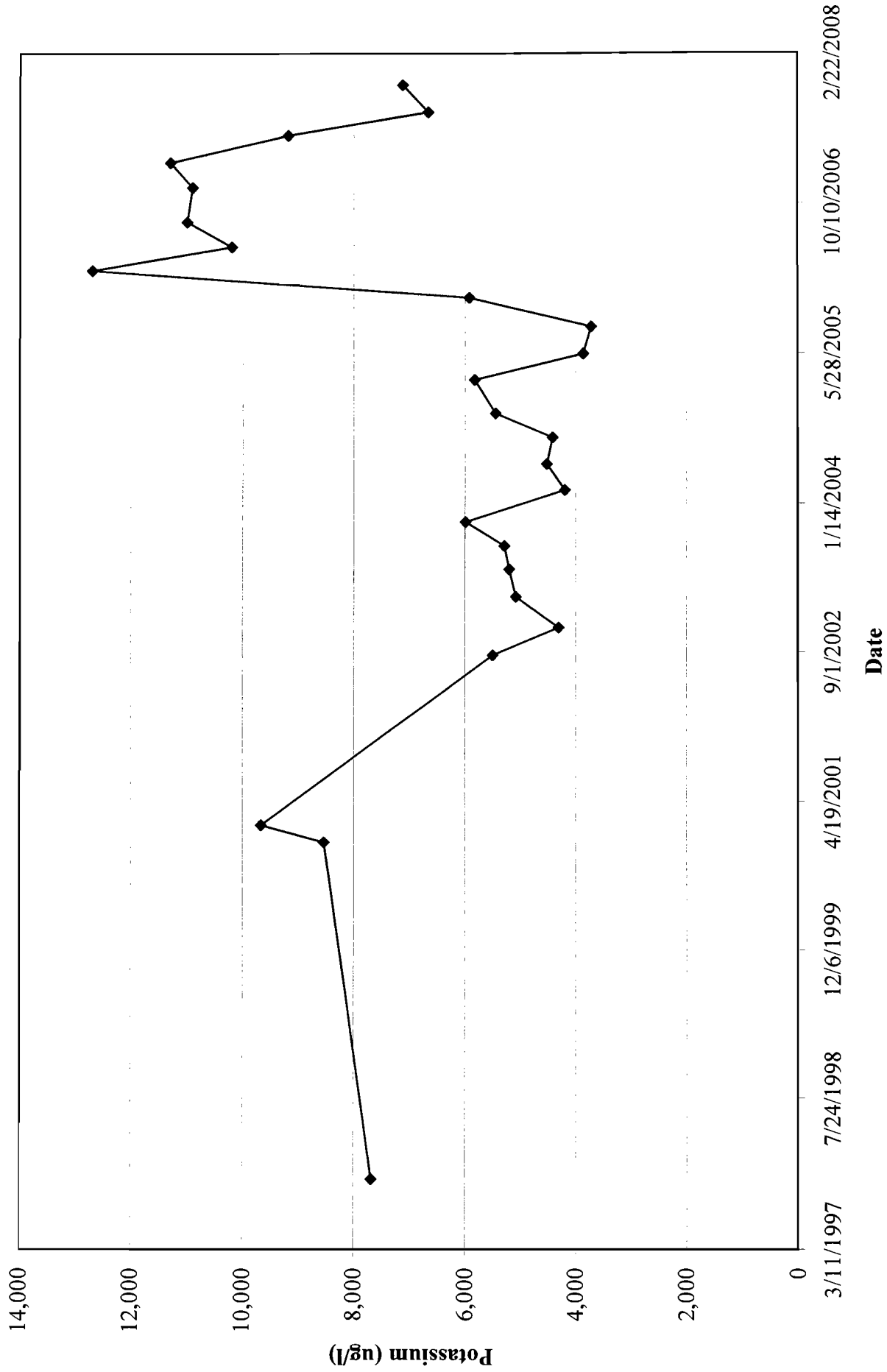
MAGNESIUM IN MW-06I



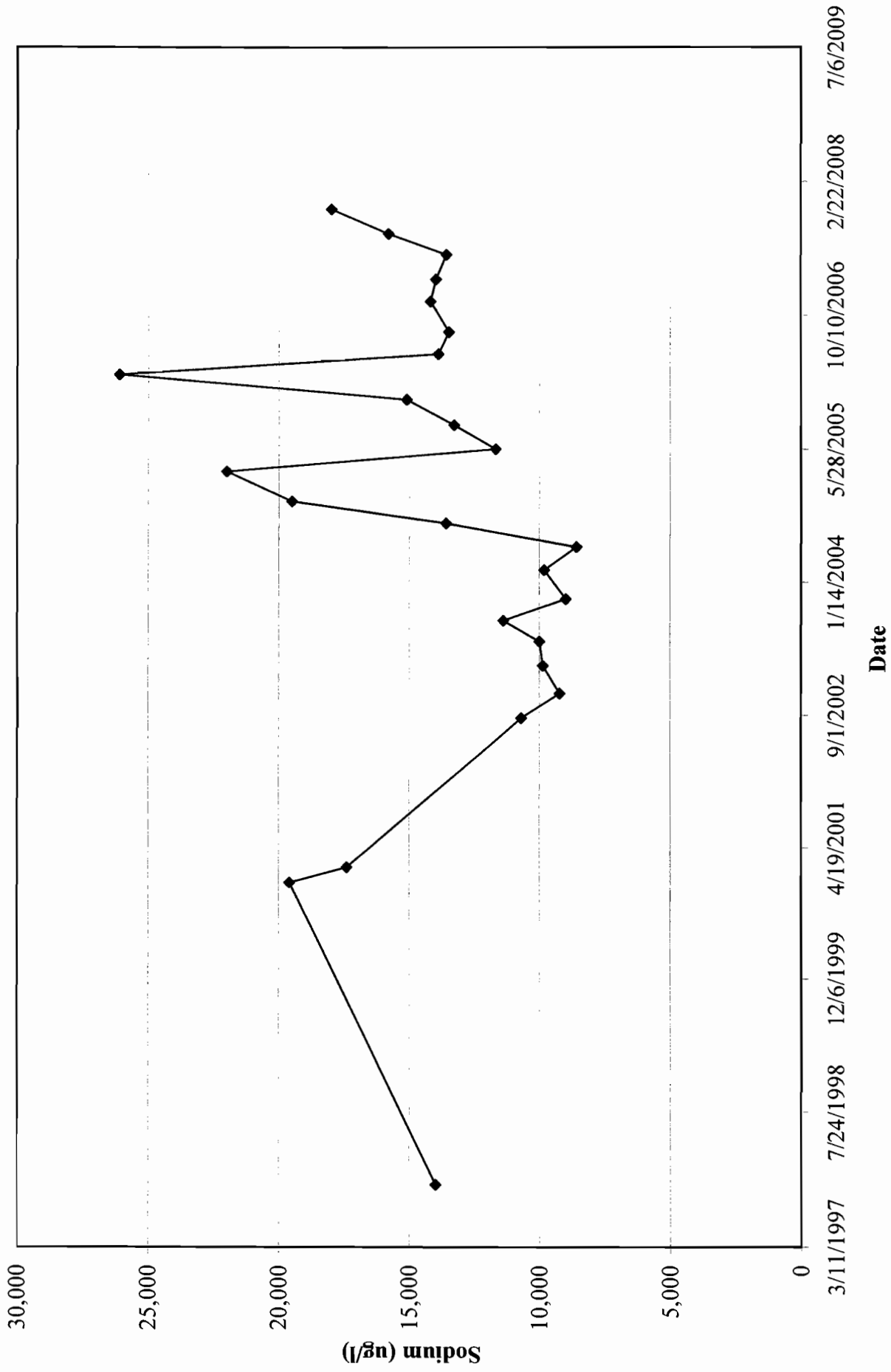
MANGANESE IN MW-06I



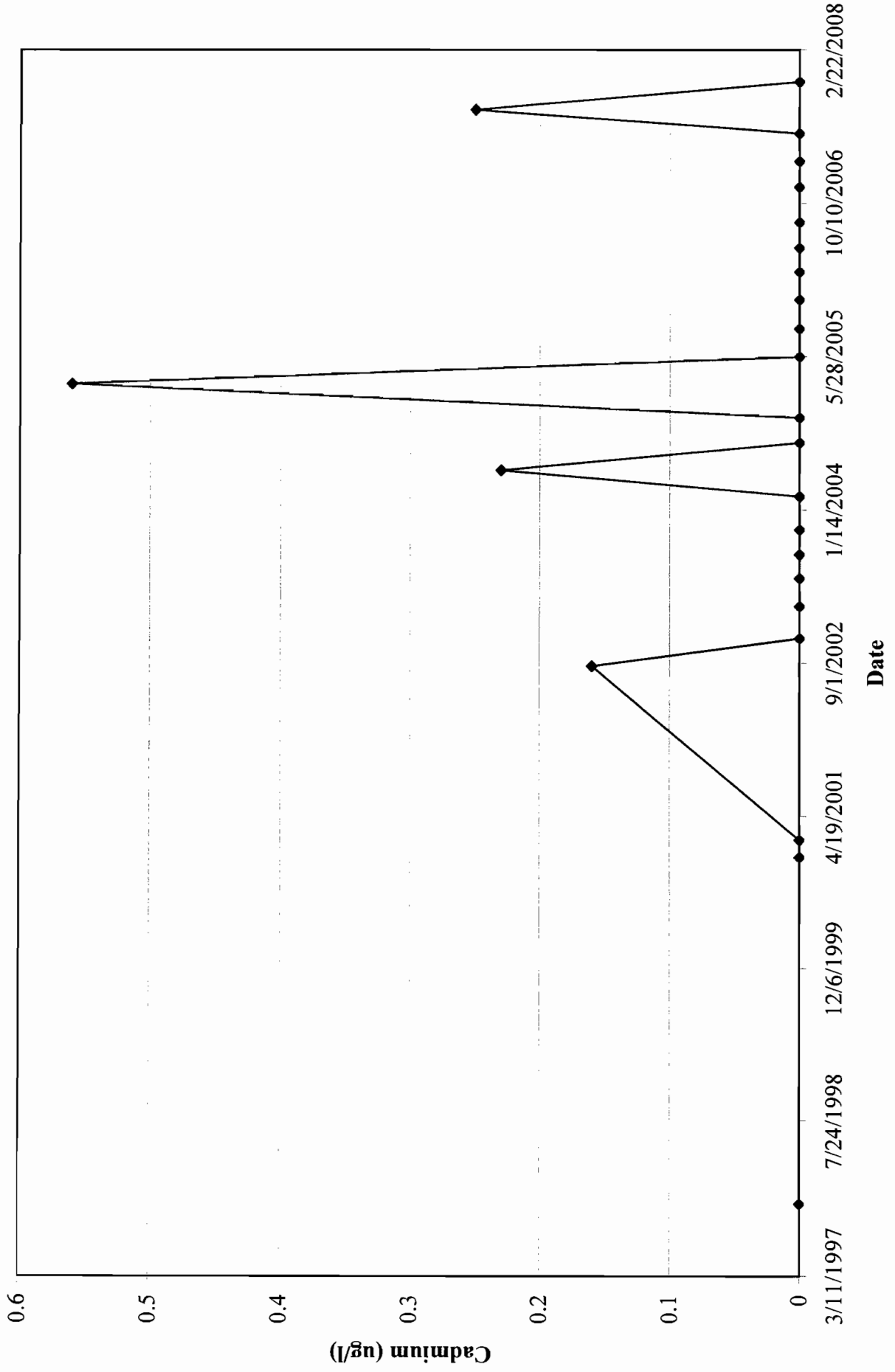
POTASSIUM IN MW-06I



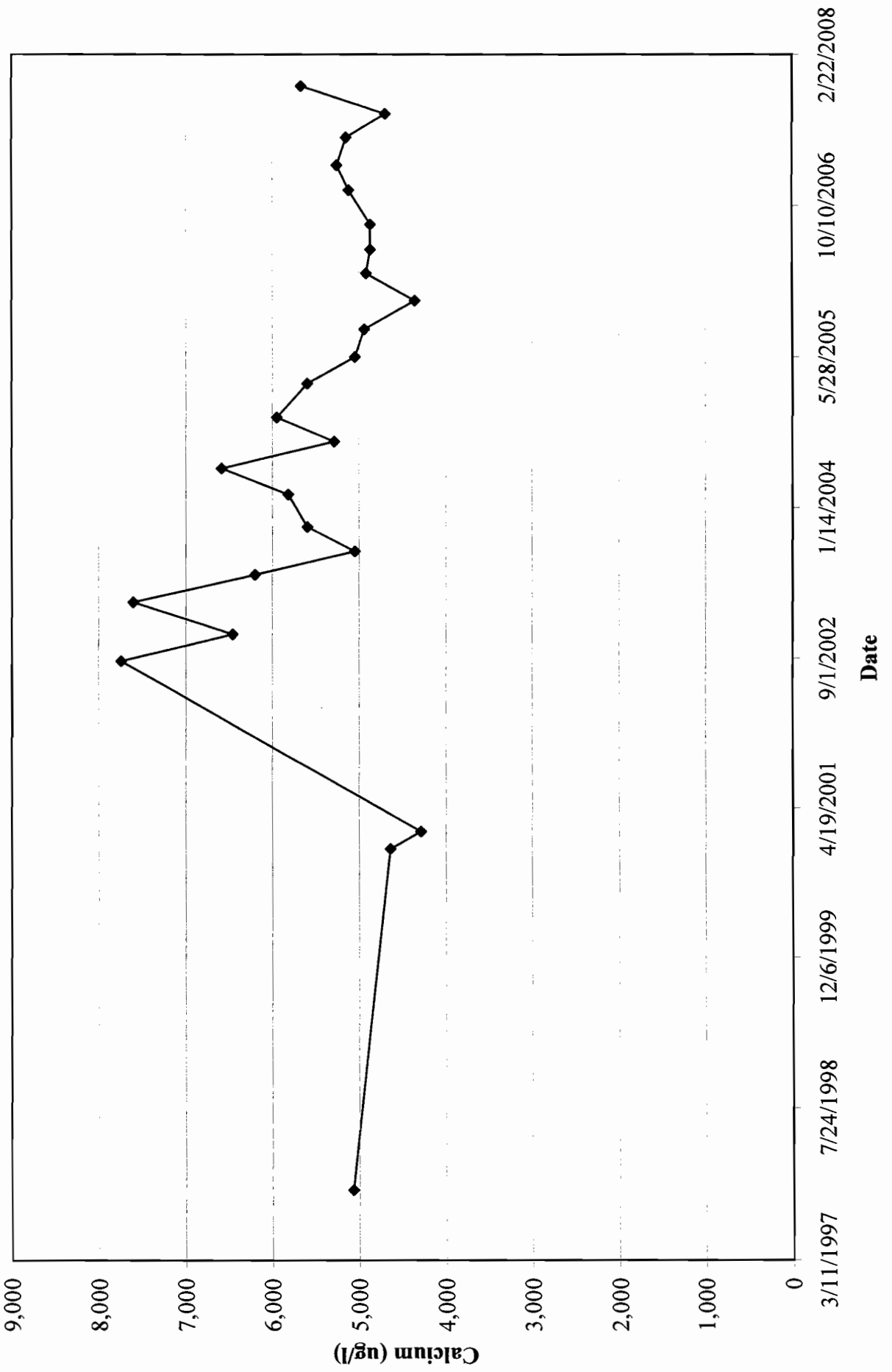
SODIUM IN MW-06I



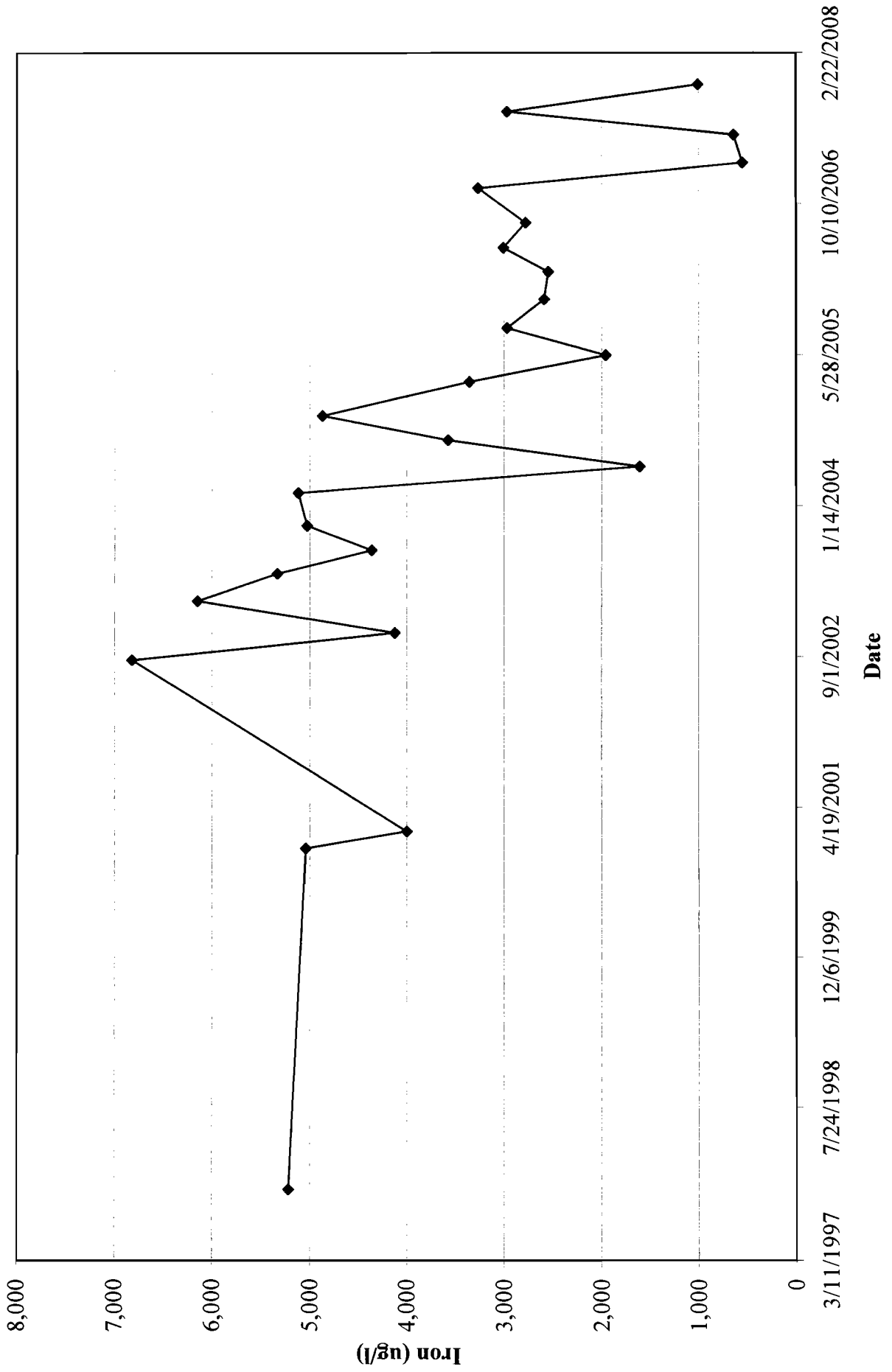
CADMIUM IN MW-06D



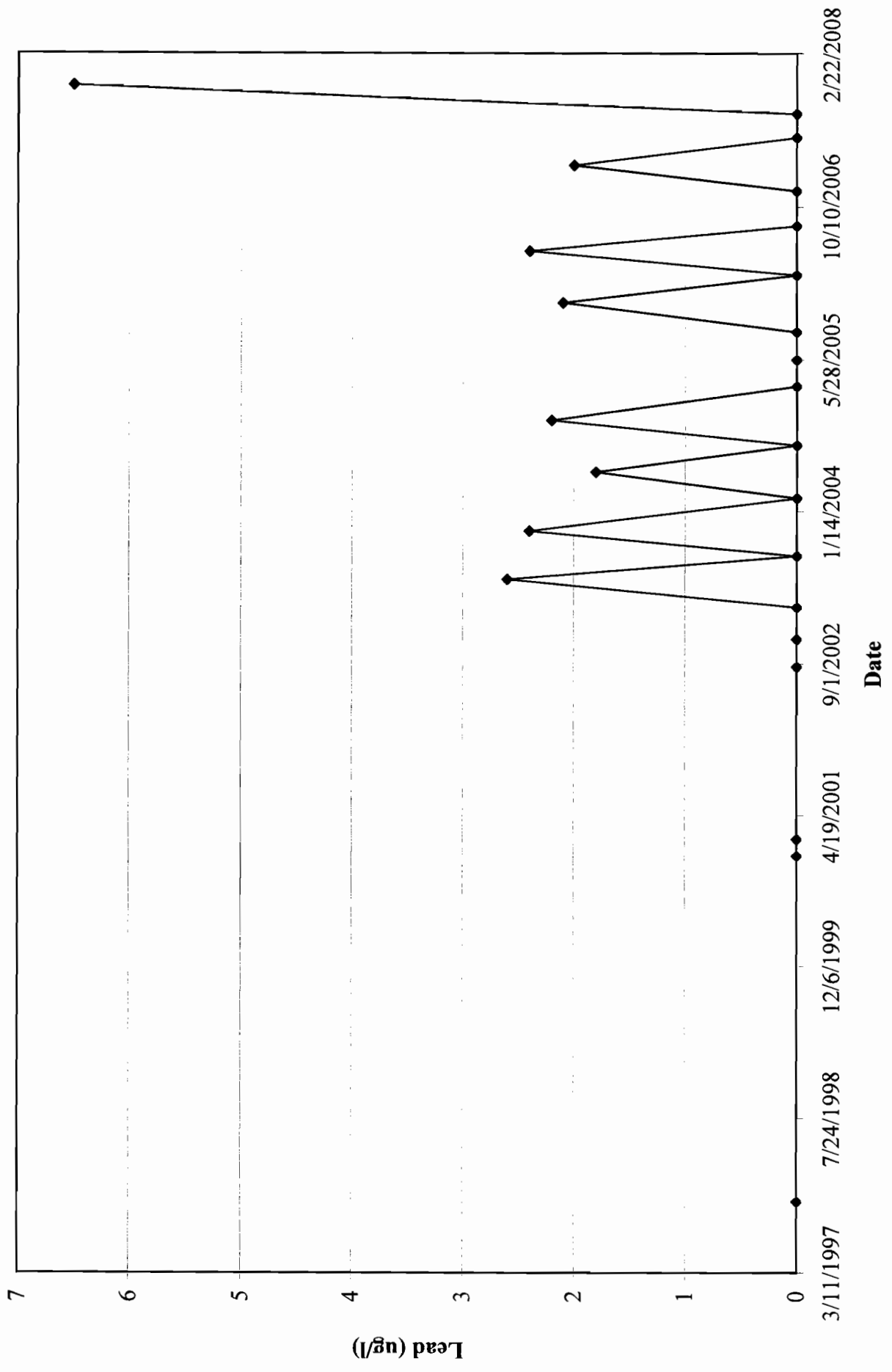
CALCIUM IN MW-06D



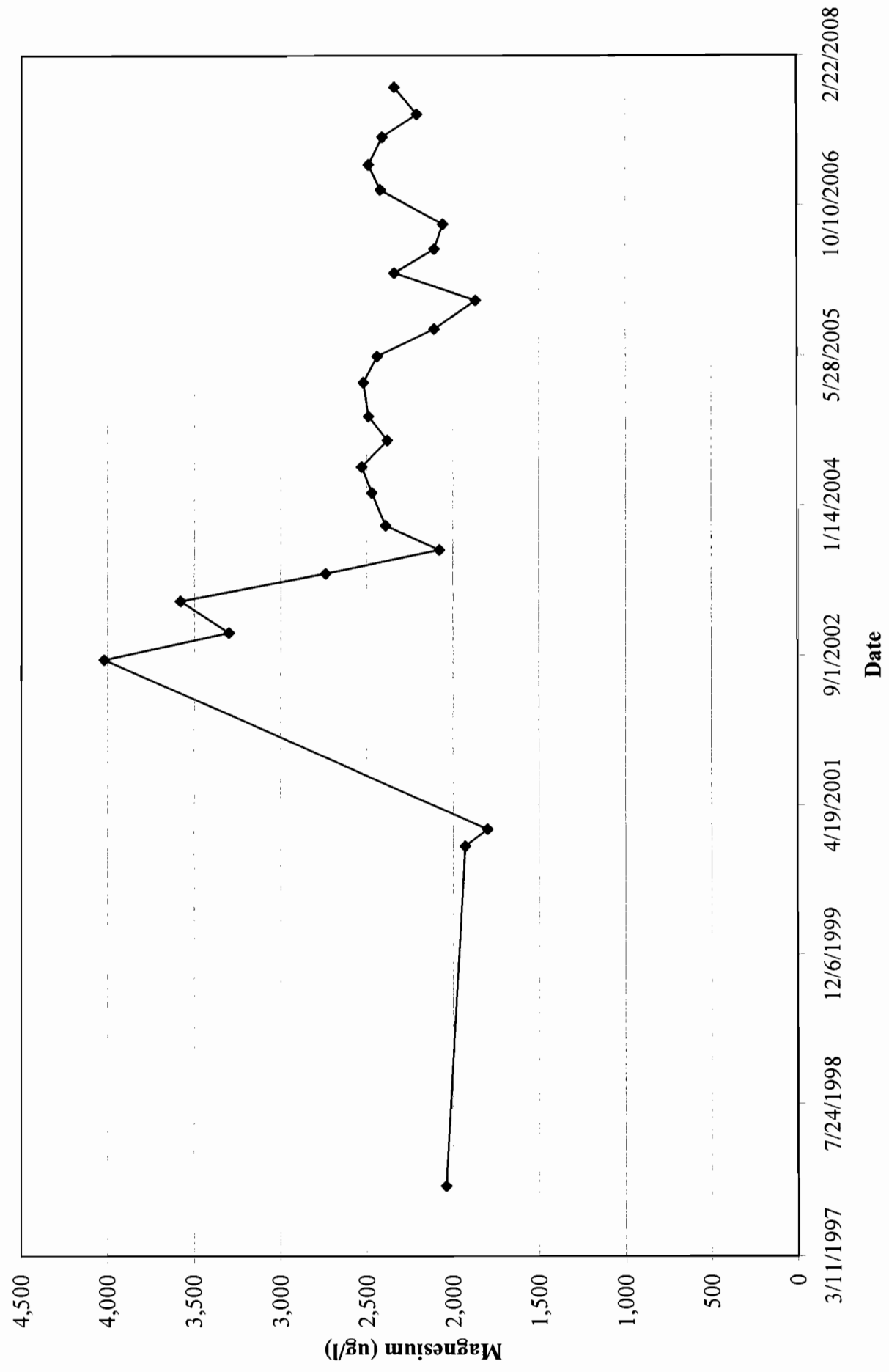
IRON IN MW-06D



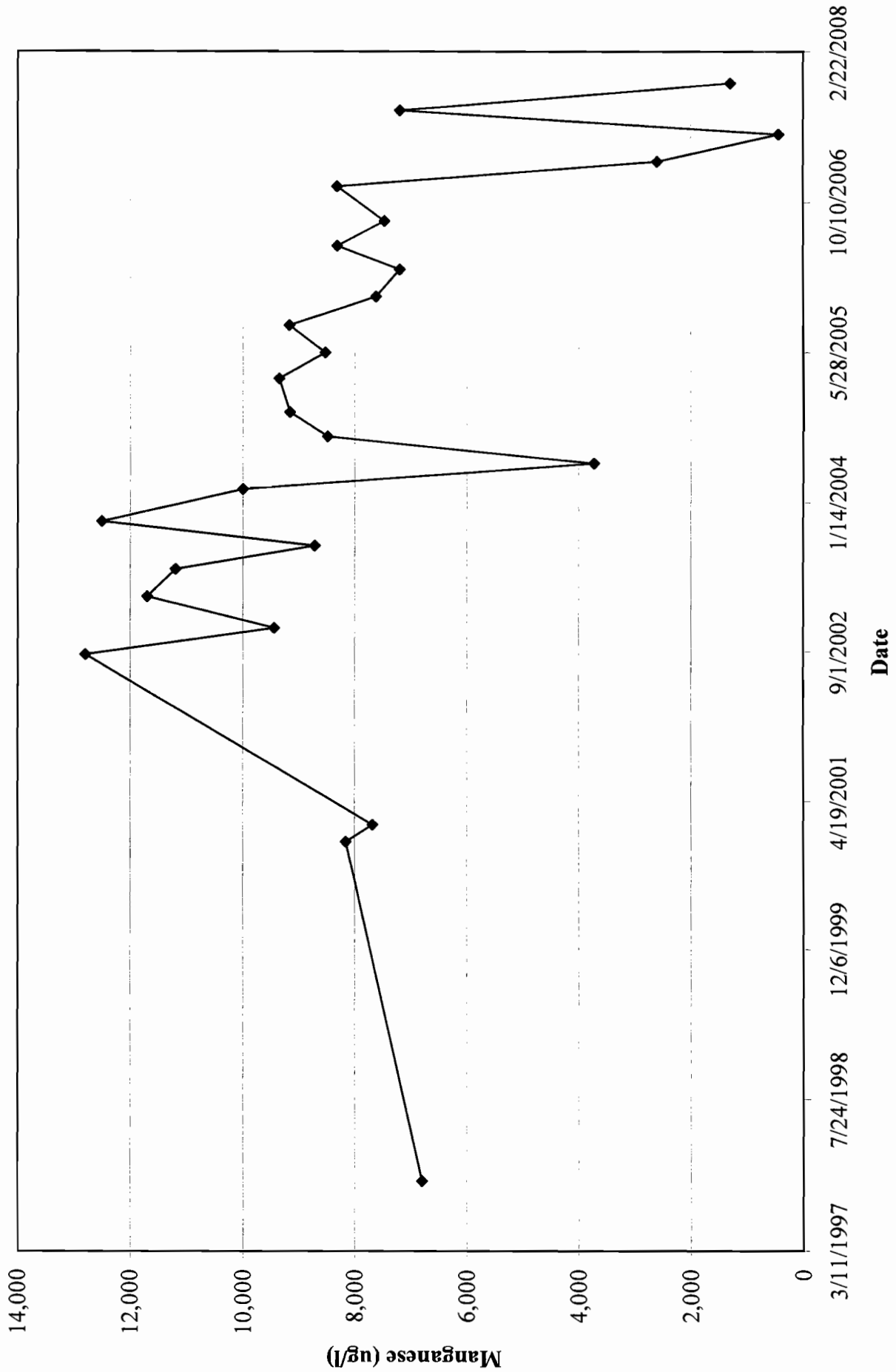
LEAD IN MW-06D



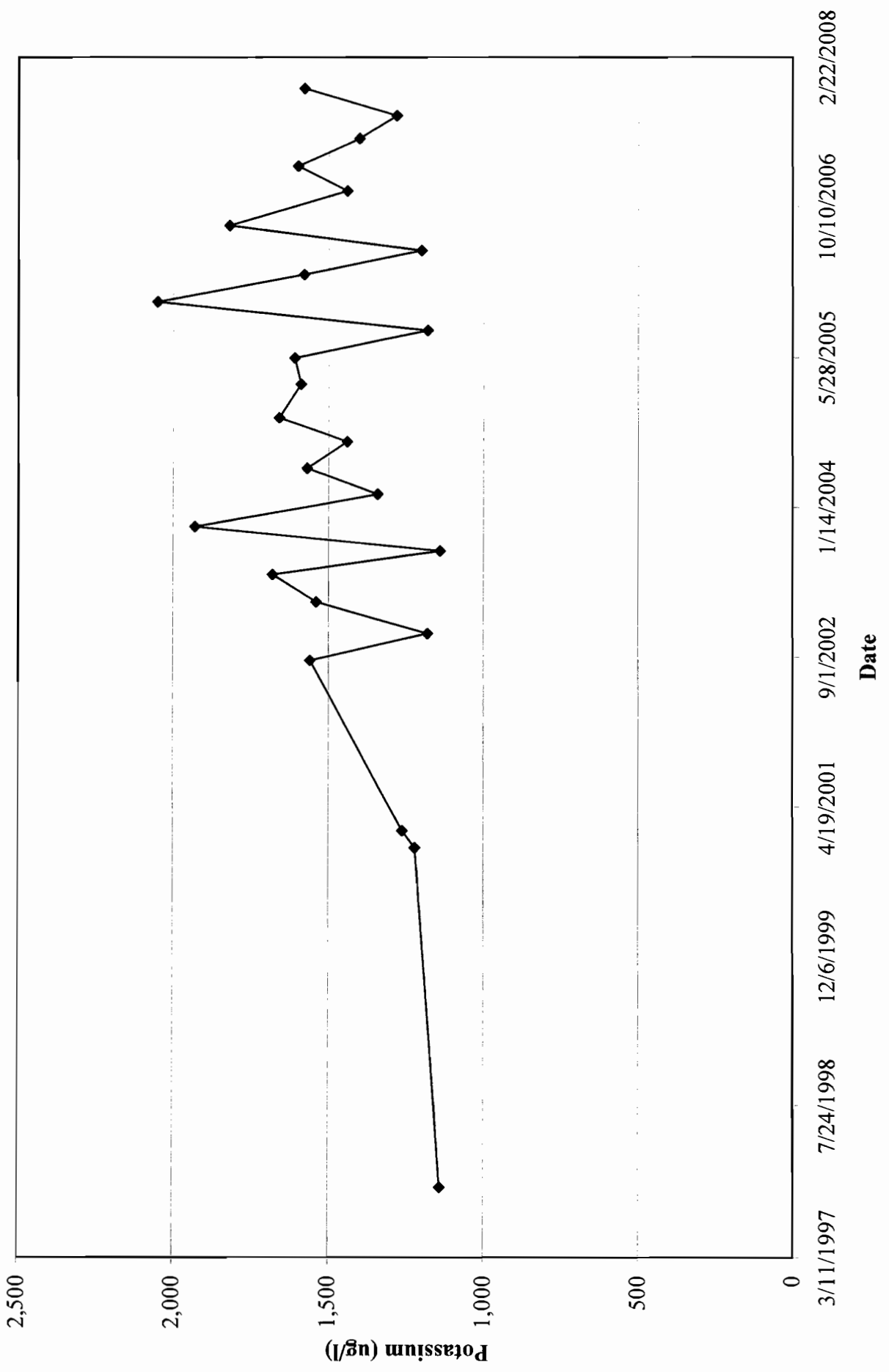
MAGNESIUM IN MW-06D



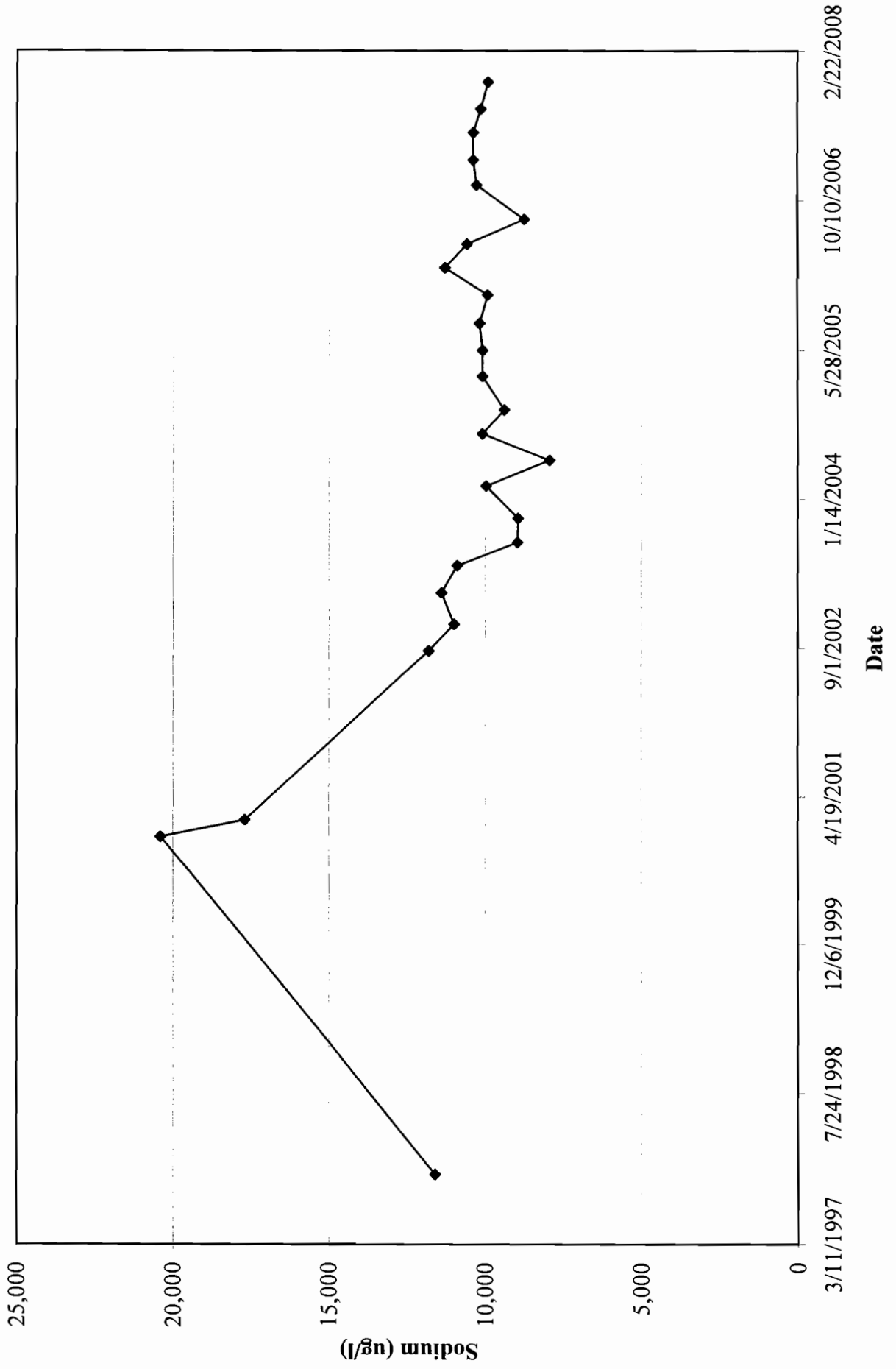
MANGANESE IN MW-06D



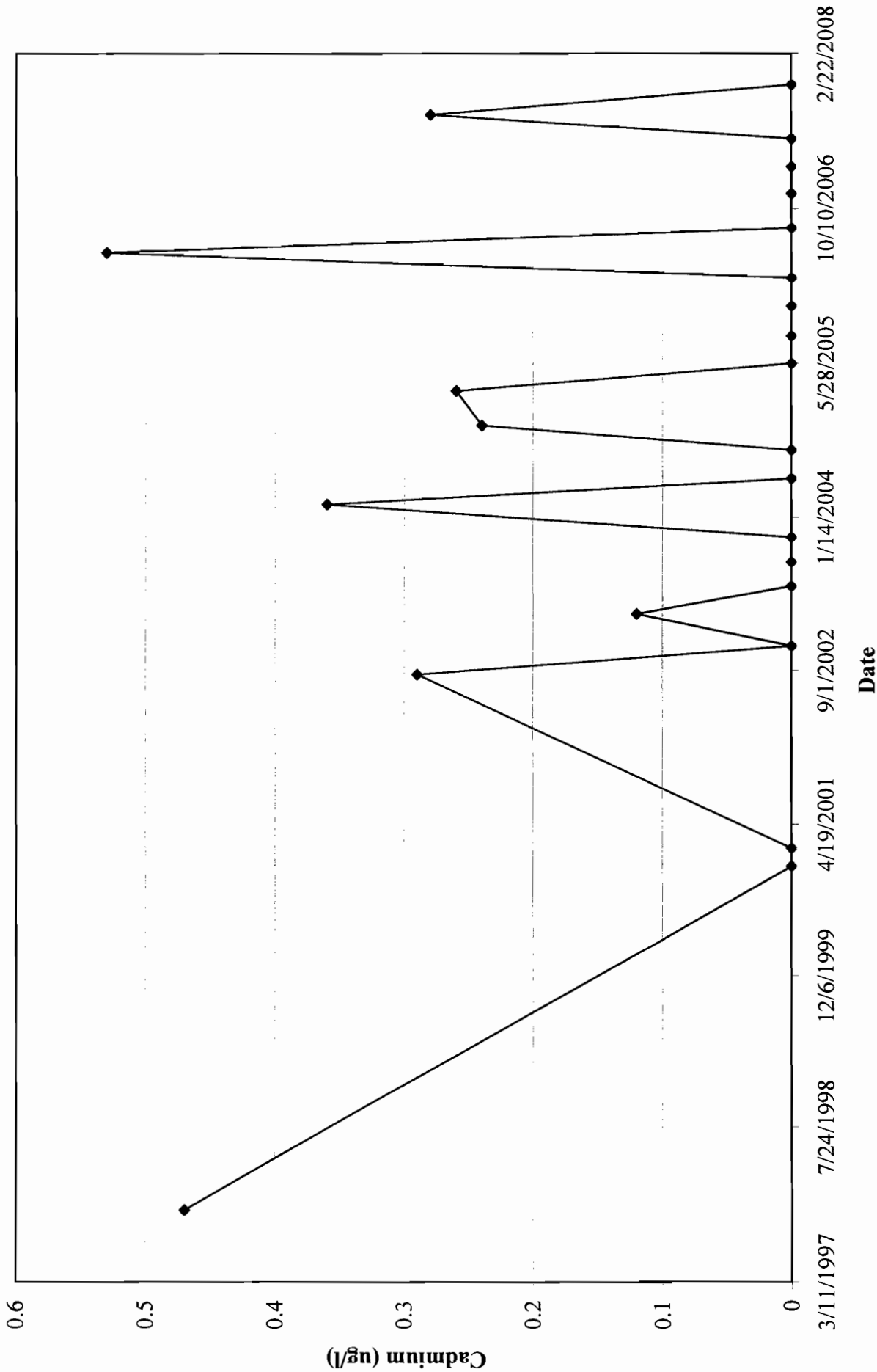
POTASSIUM IN MW-06D



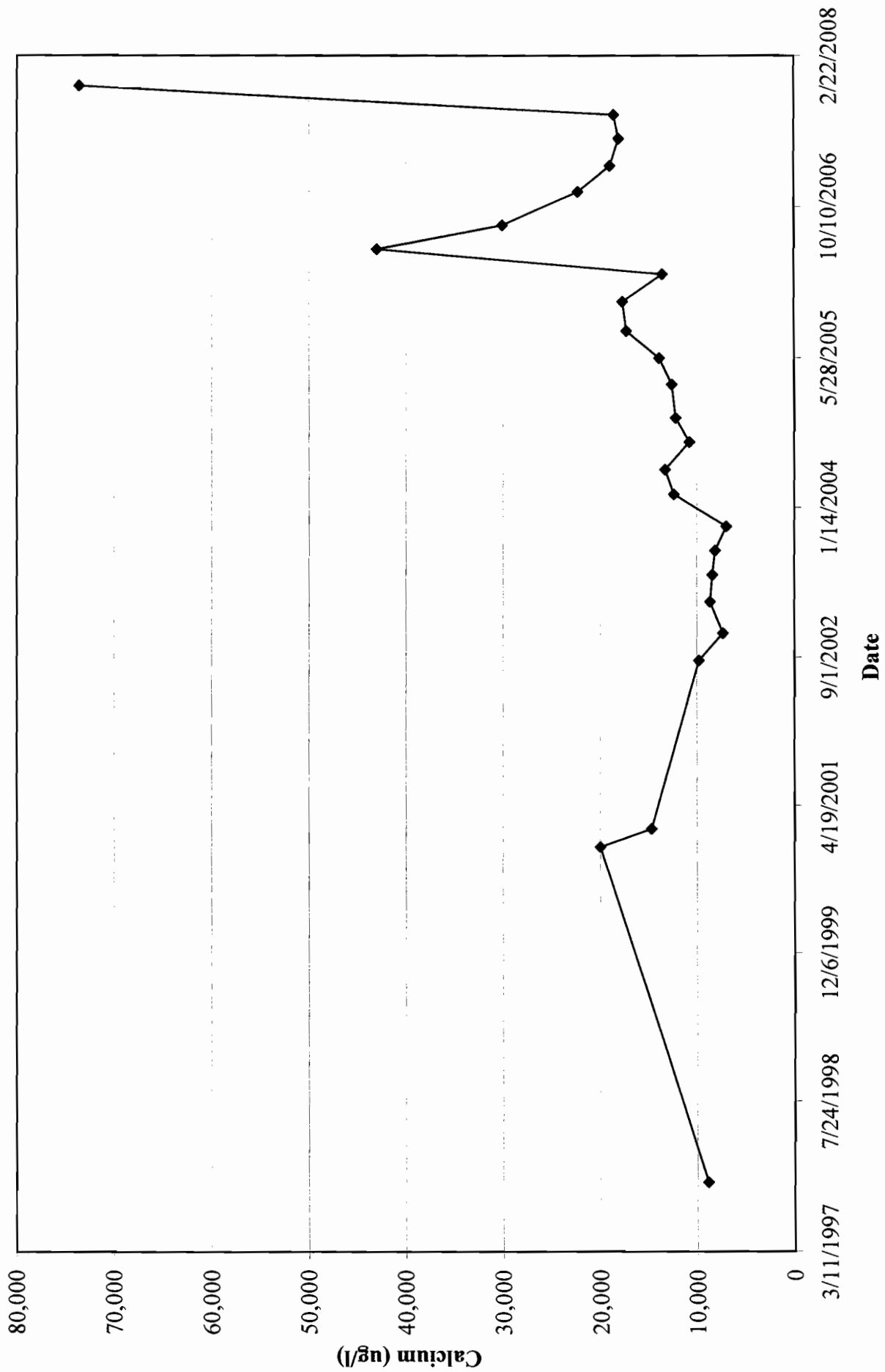
SODIUM IN MW-06D



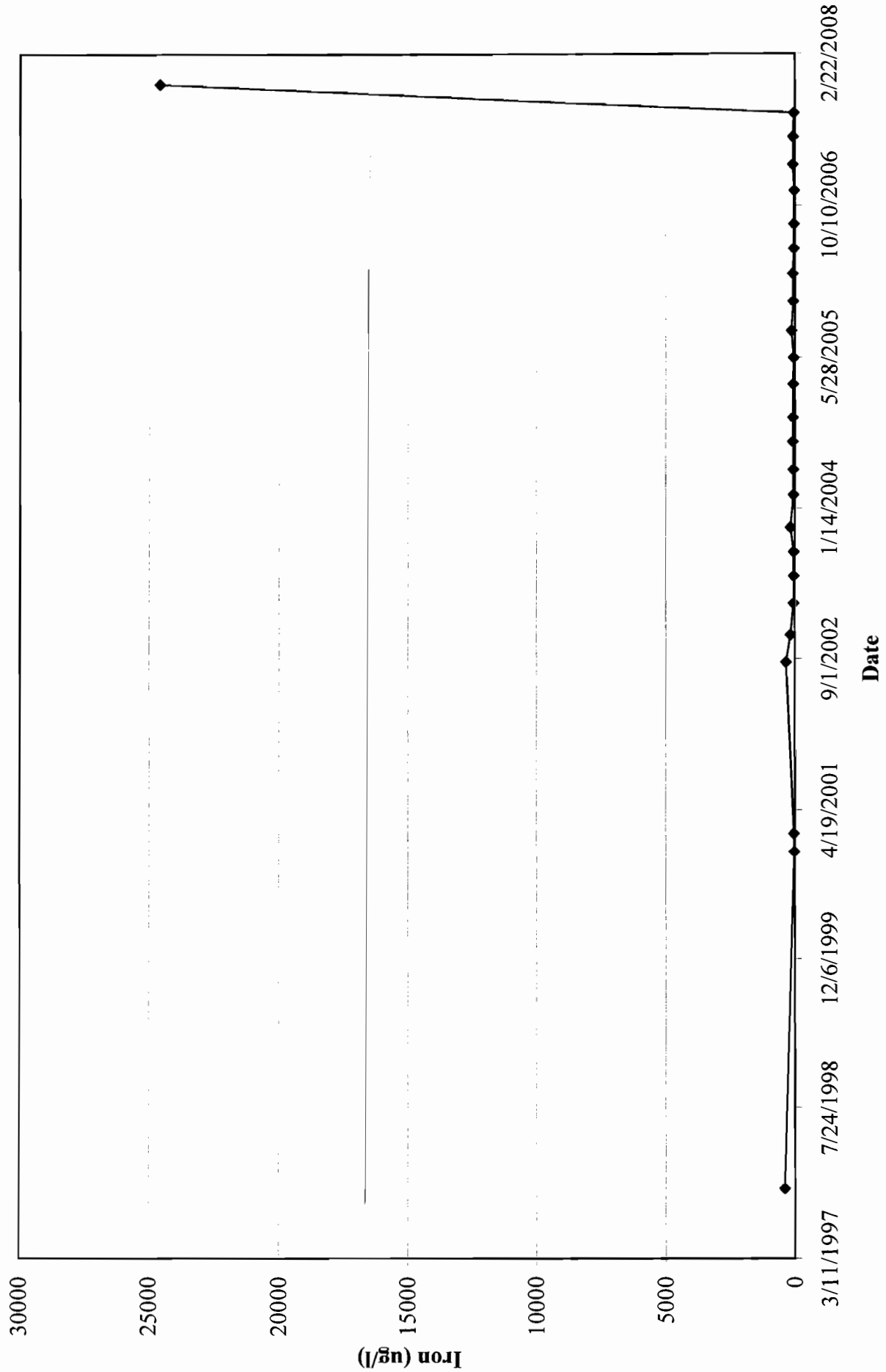
CADMIUM IN MW-071



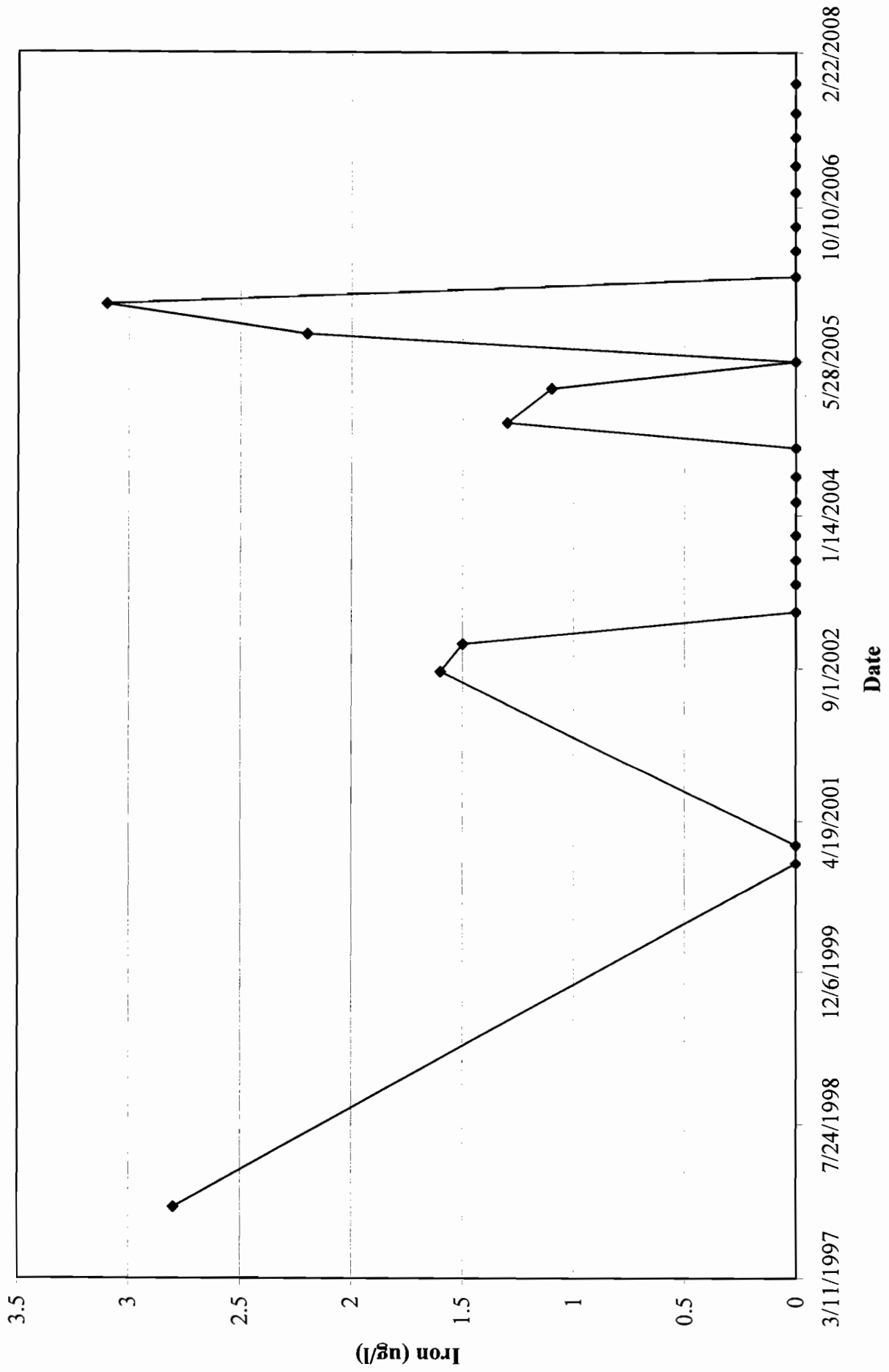
CALCIUM IN MW-071



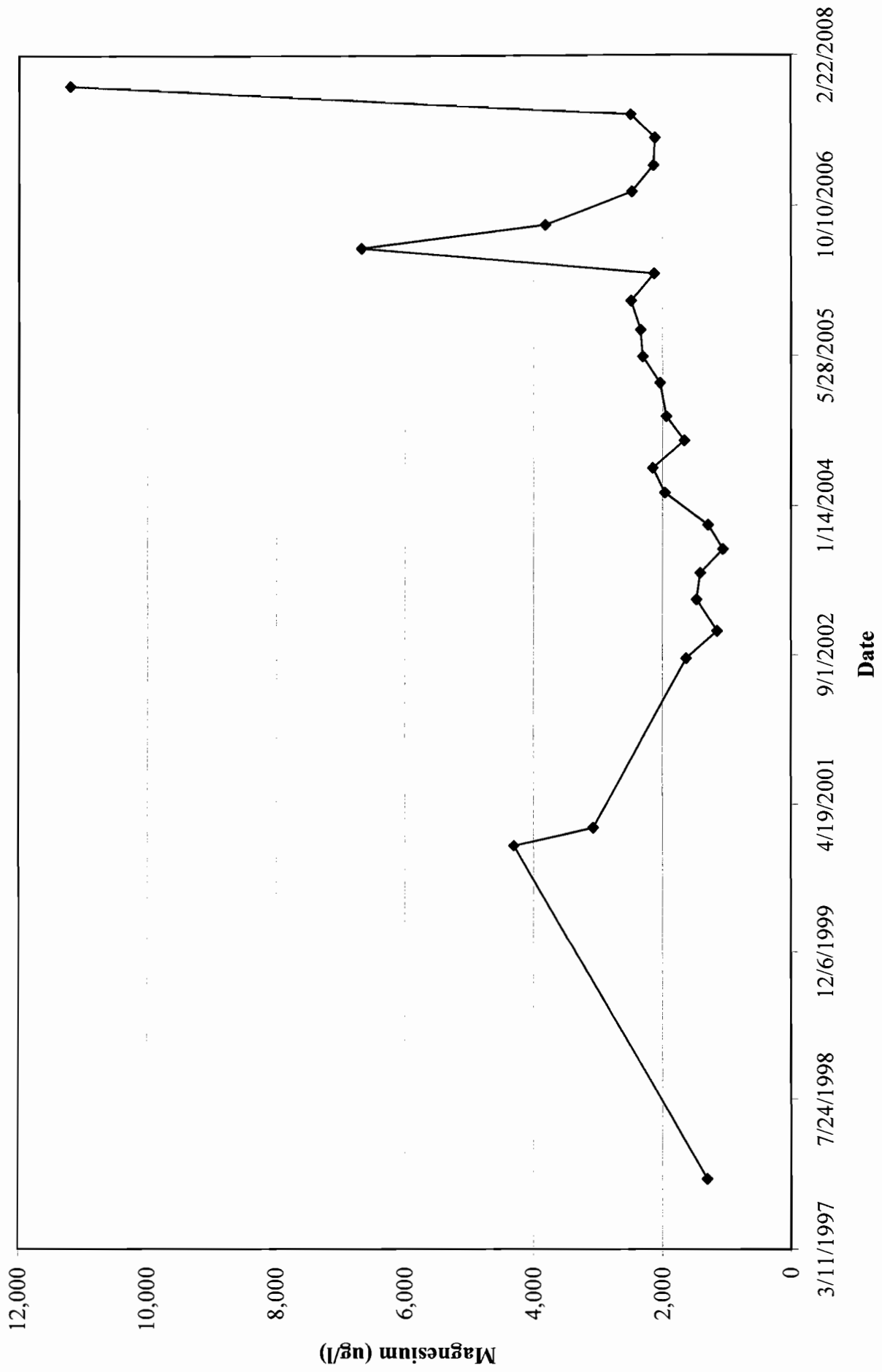
IRON IN MW-07I



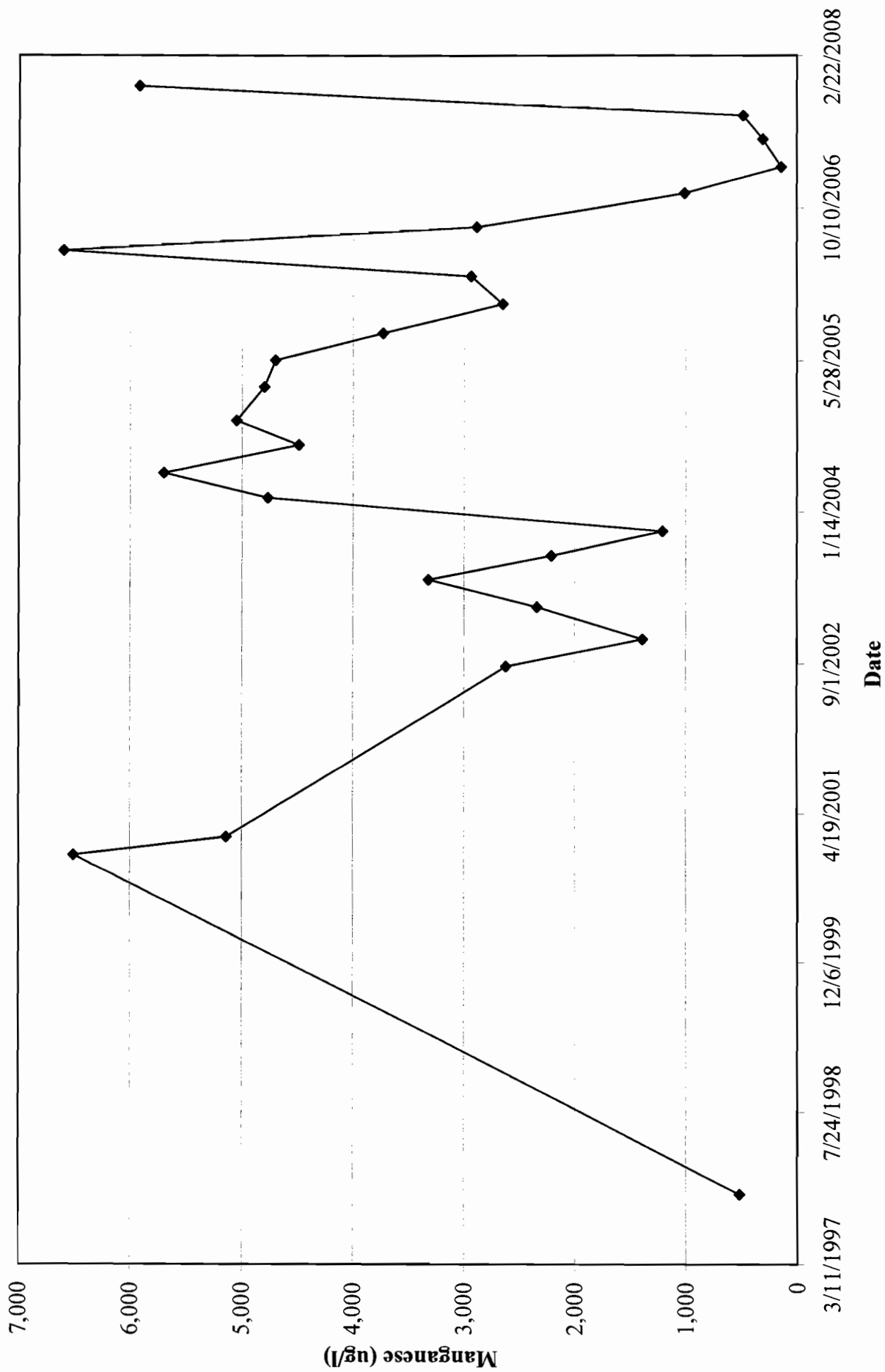
LEAD IN MW-07I



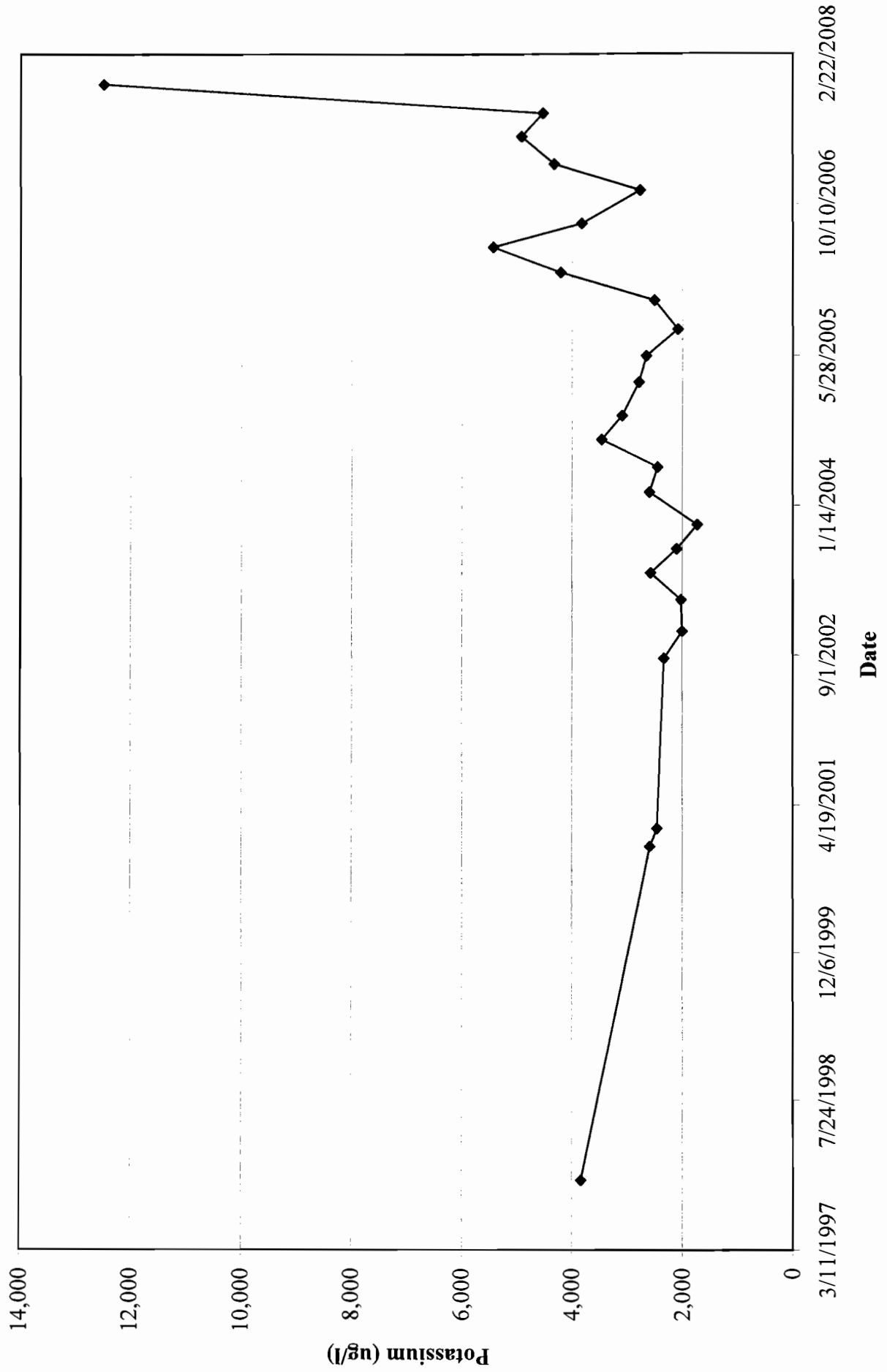
MAGNESIUM IN MW-07I



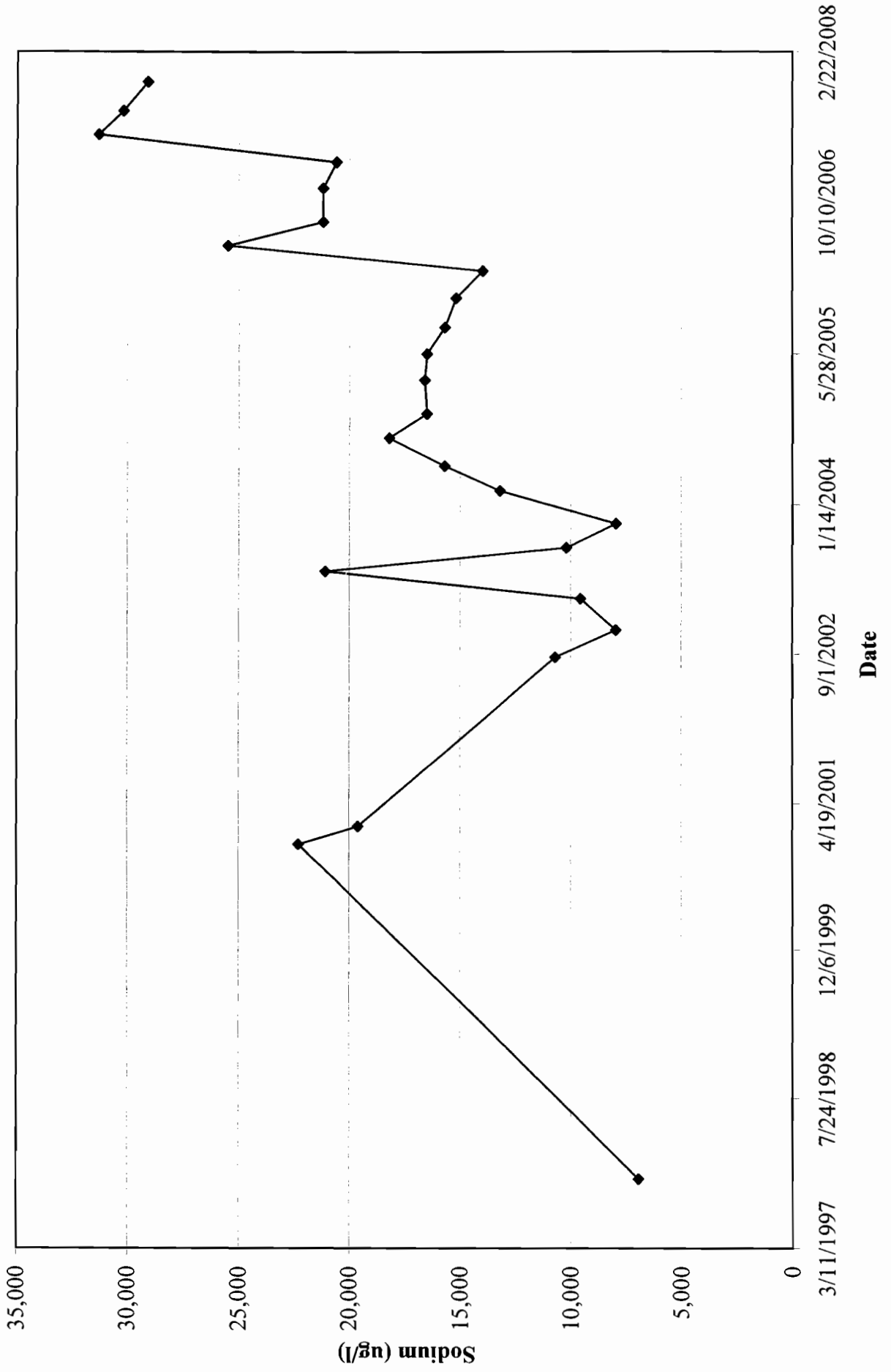
MANGANESE IN MW-071



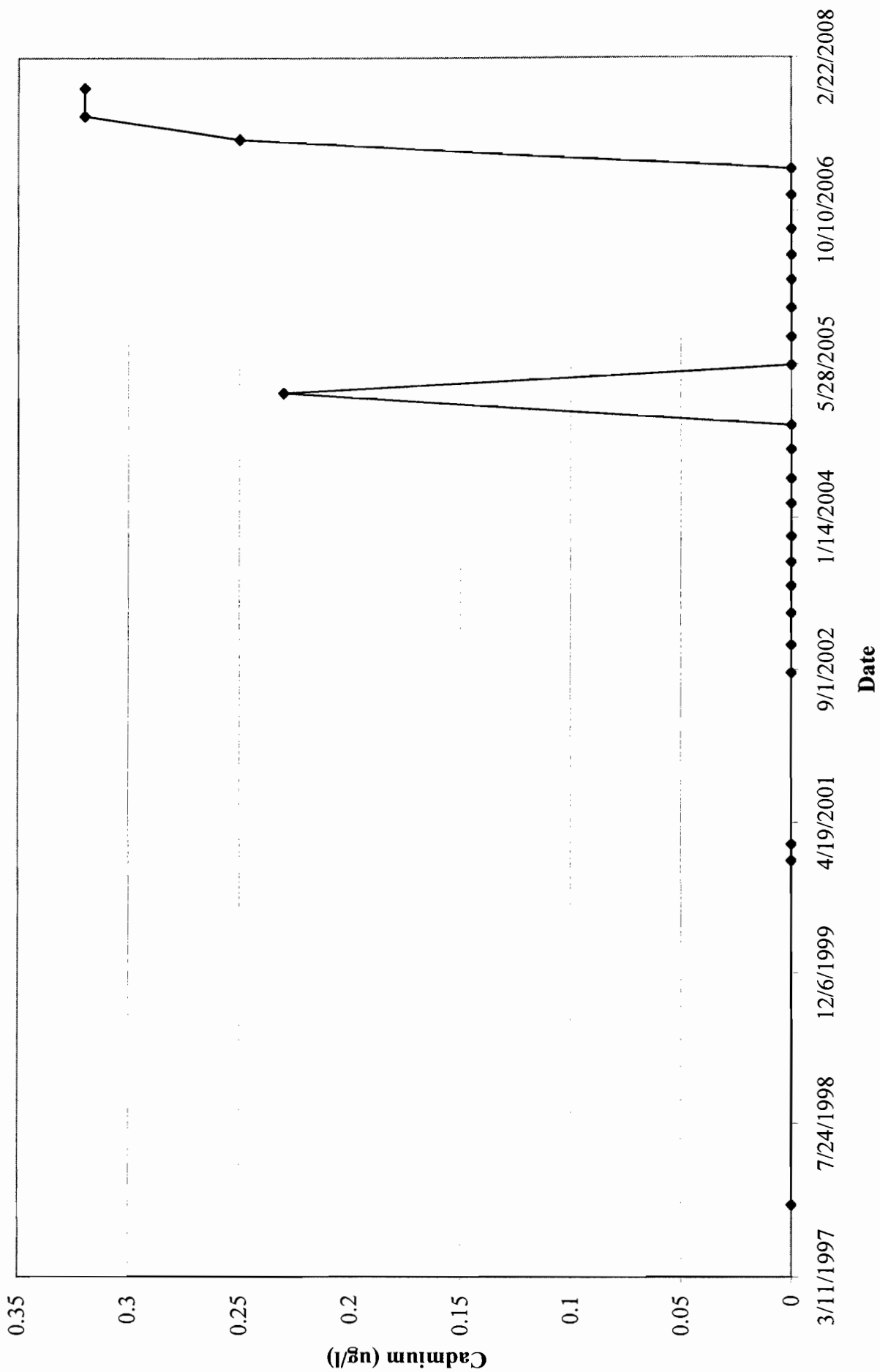
POTASSIUM IN MW-071



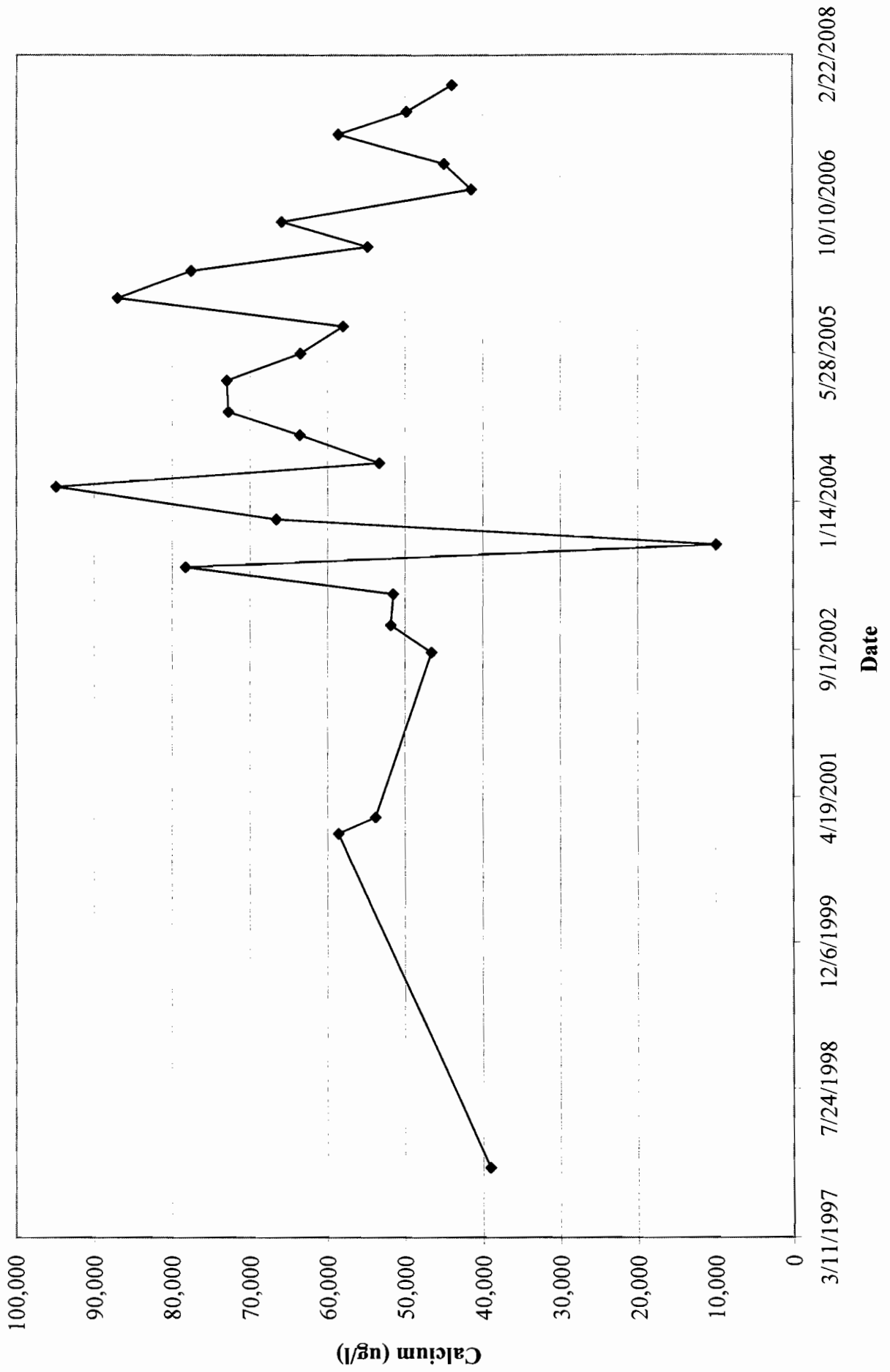
SODIUM IN MW-071



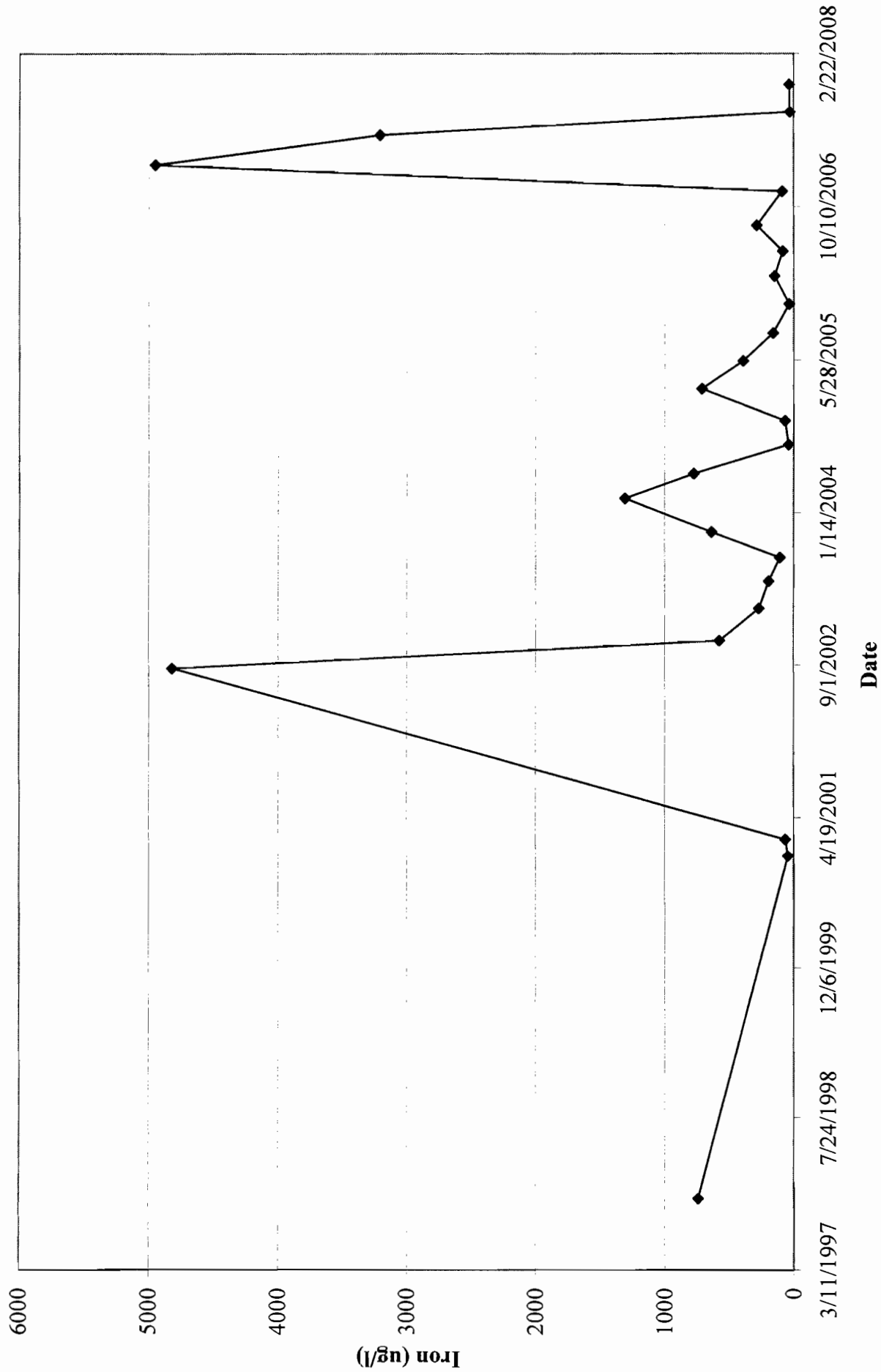
CADMIUM IN MW-11S



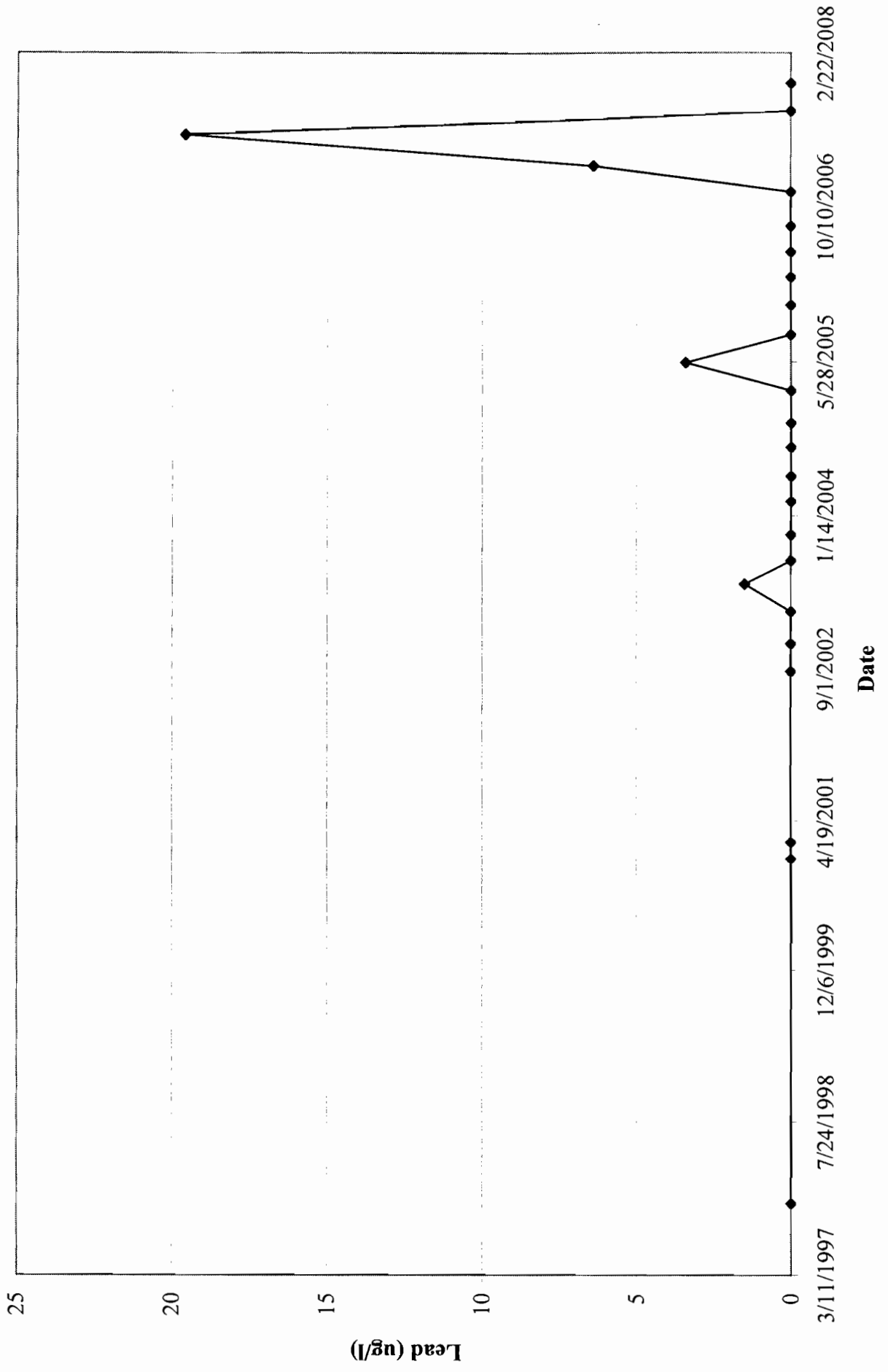
CALCIUM IN MW-11S



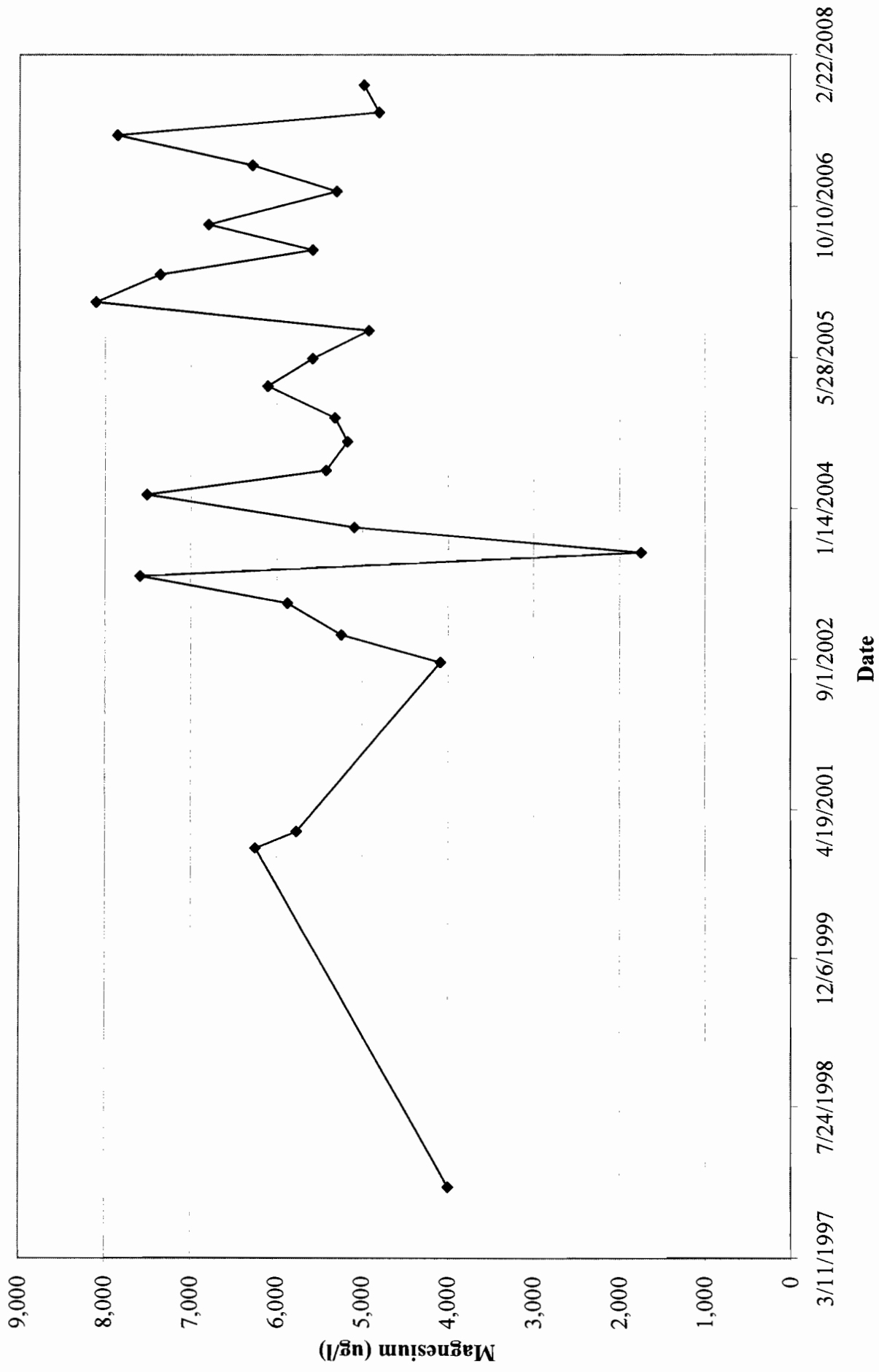
IRON IN MW-11S



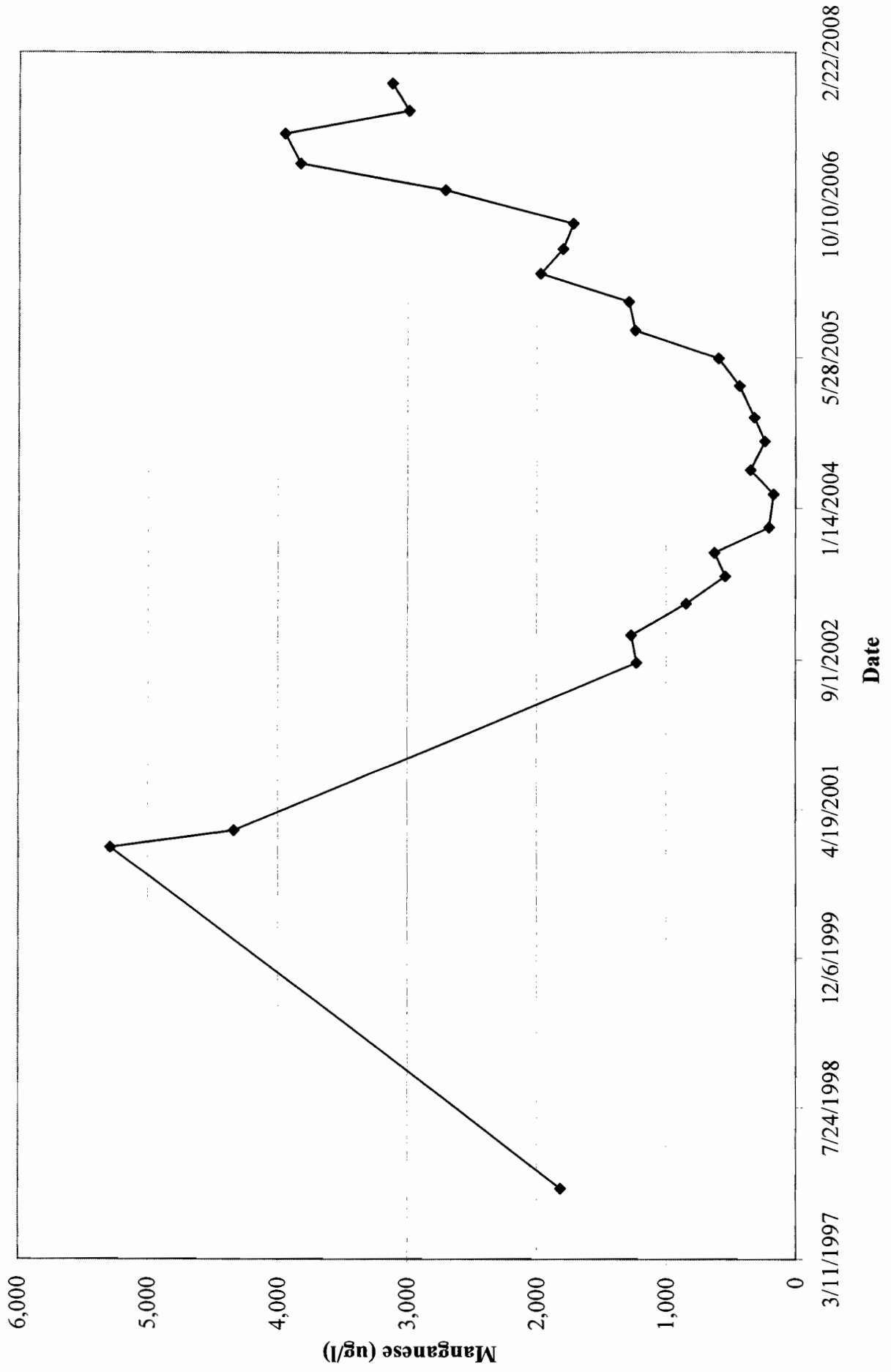
LEAD IN MW-11S



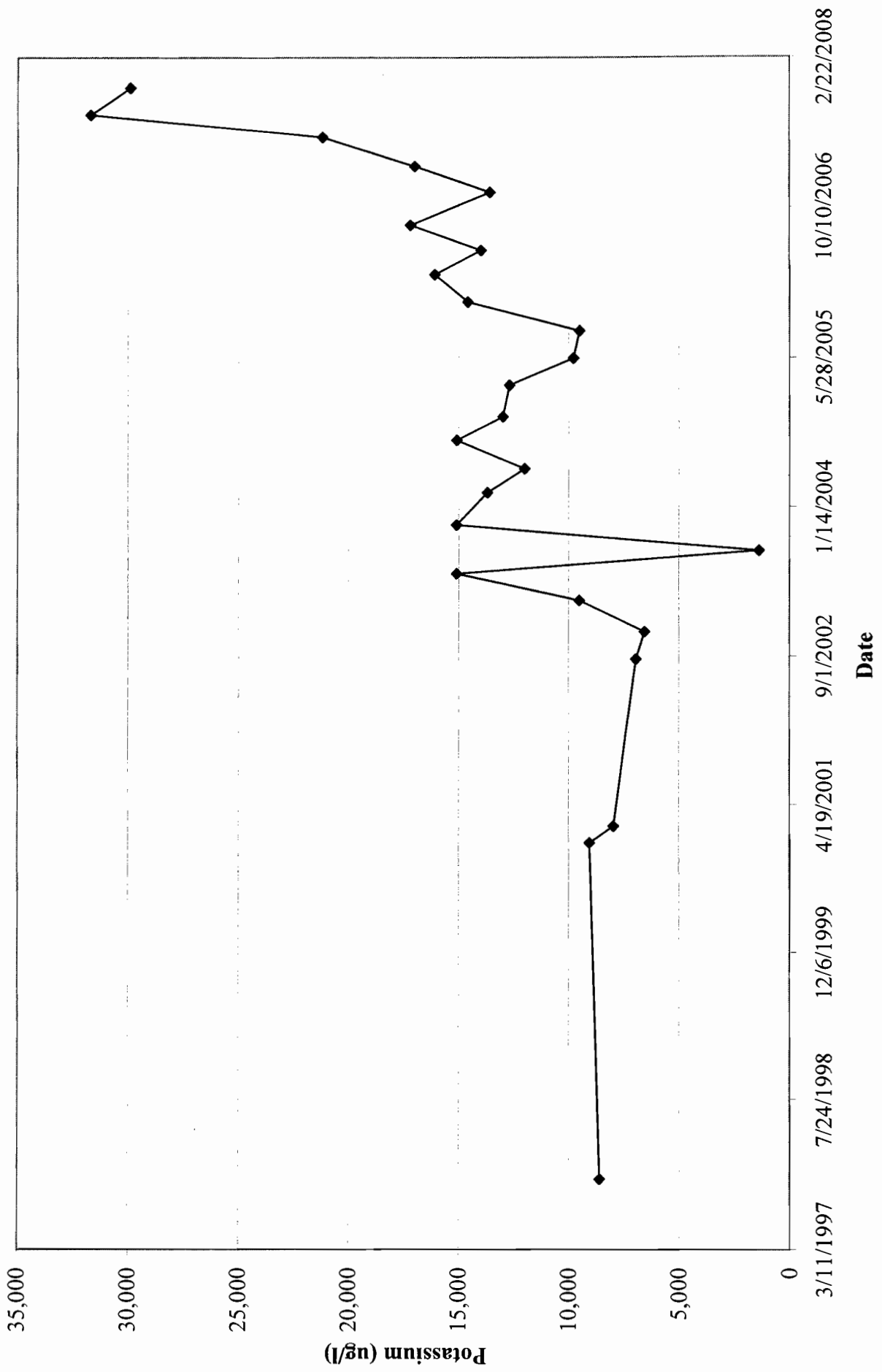
MAGNESIUM IN MW-11S



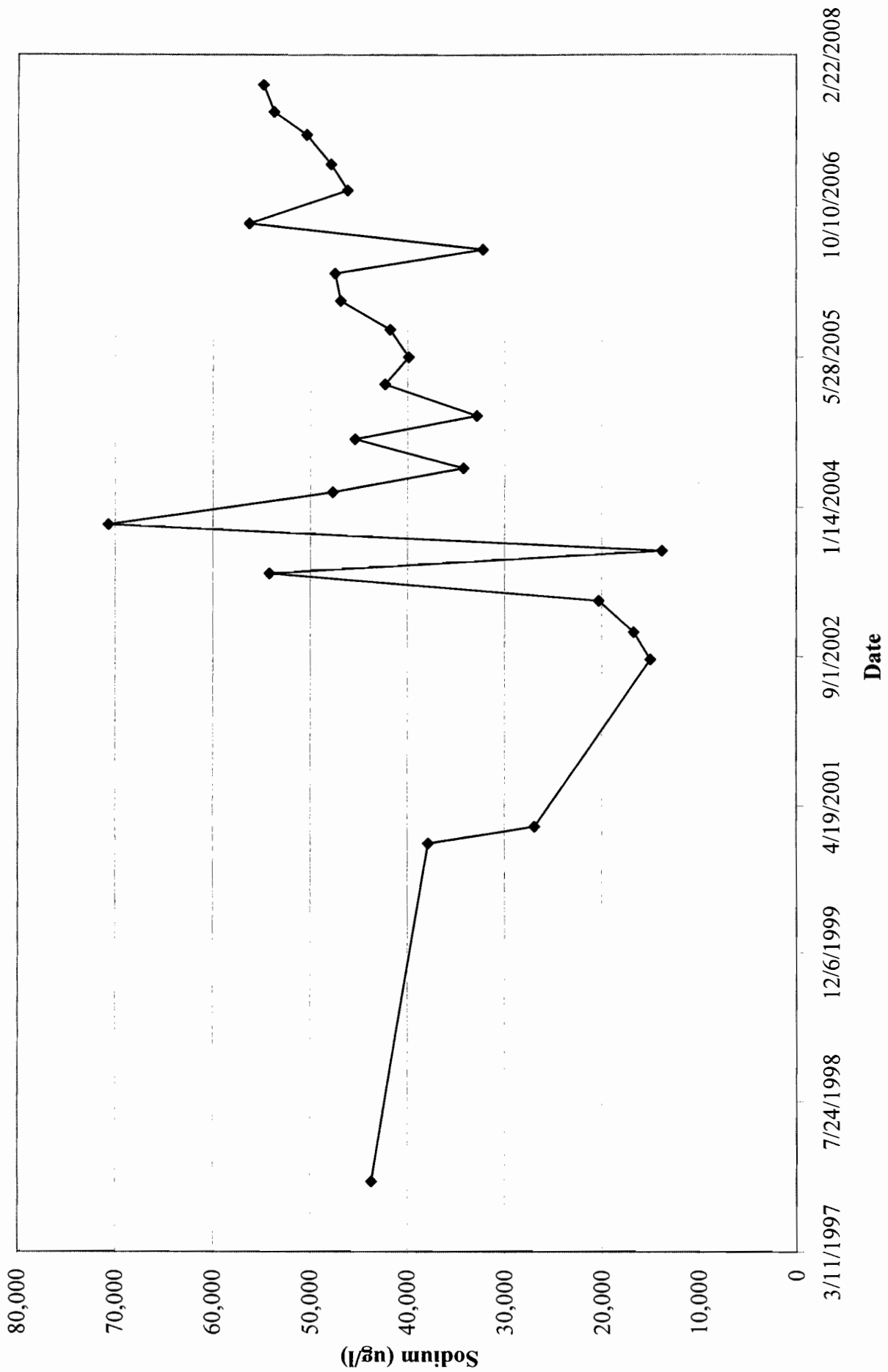
MANGANESE IN MW-11S



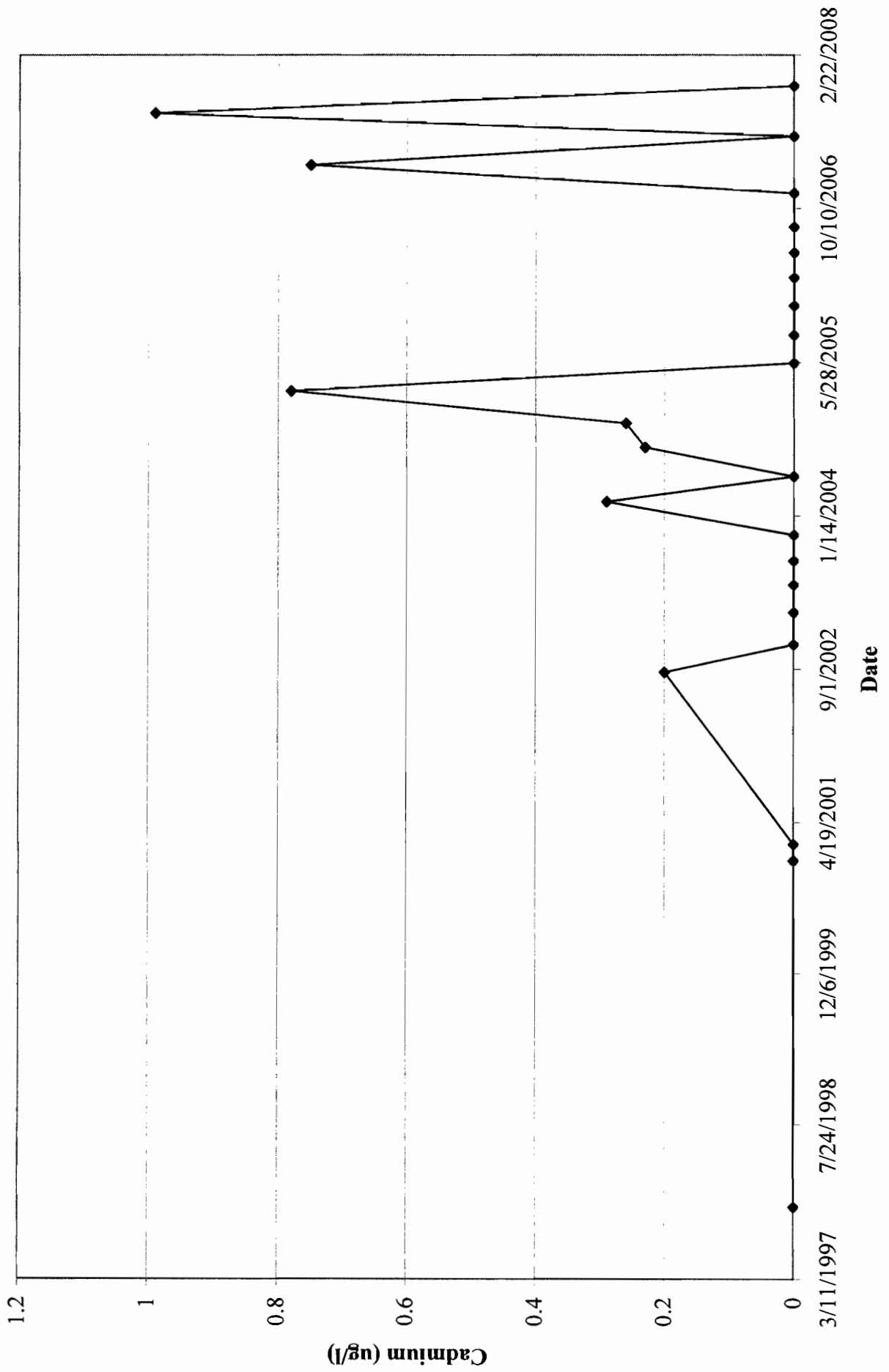
POTASSIUM IN MW-11S



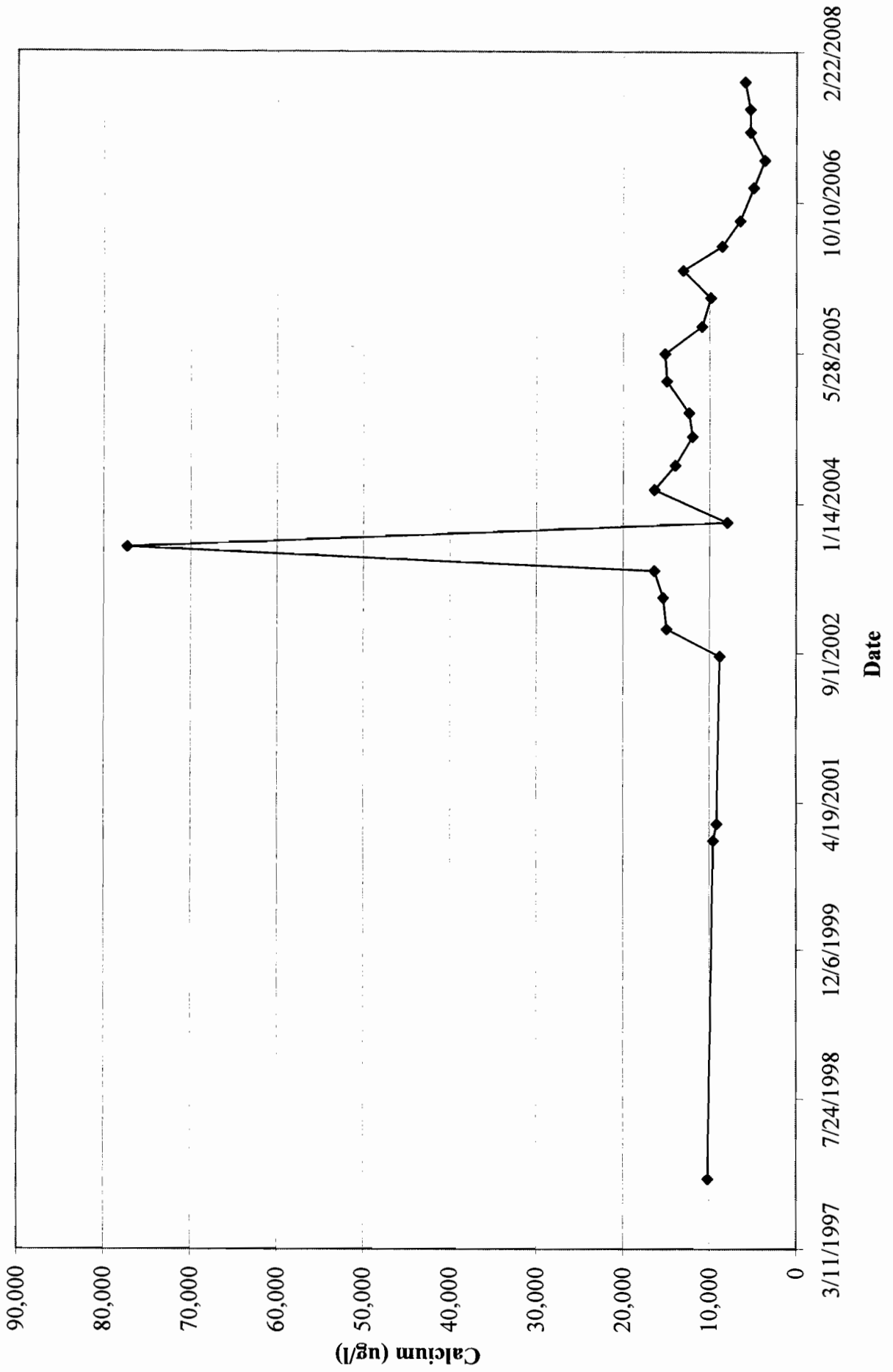
SODIUM IN MW-11S



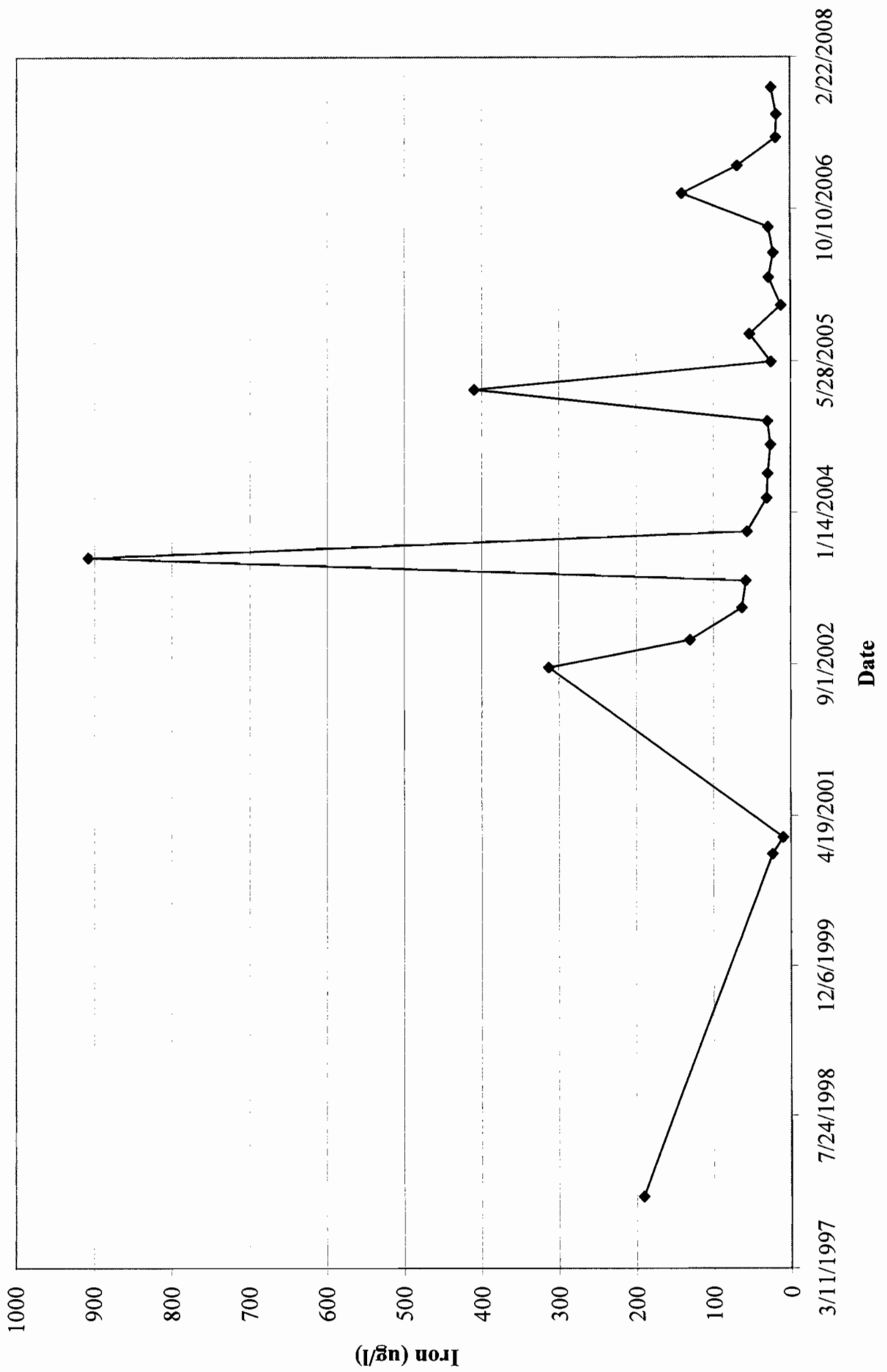
CADMIUM IN MW-11I



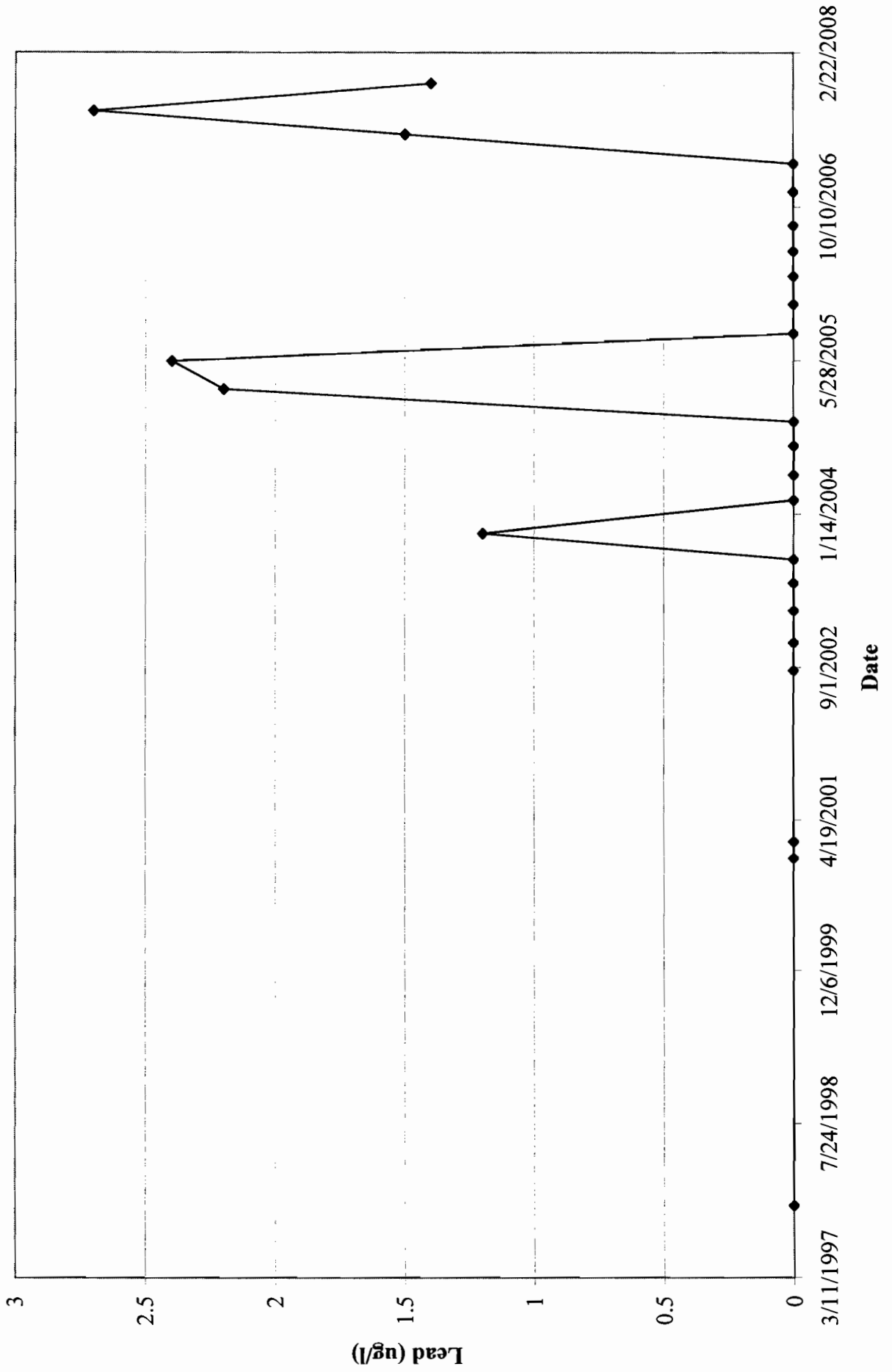
CALCIUM IN MW-11I



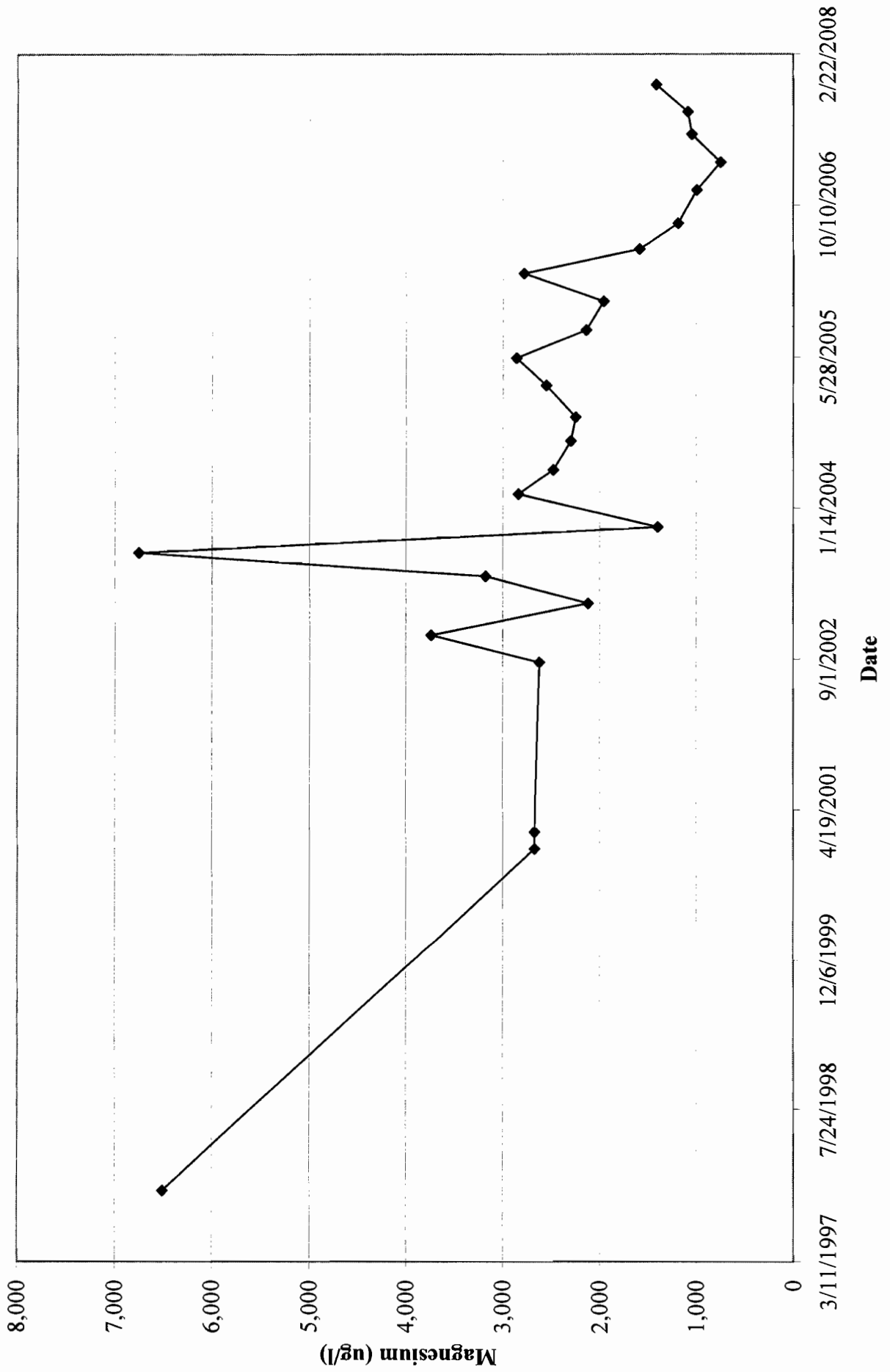
IRON IN MW-11I



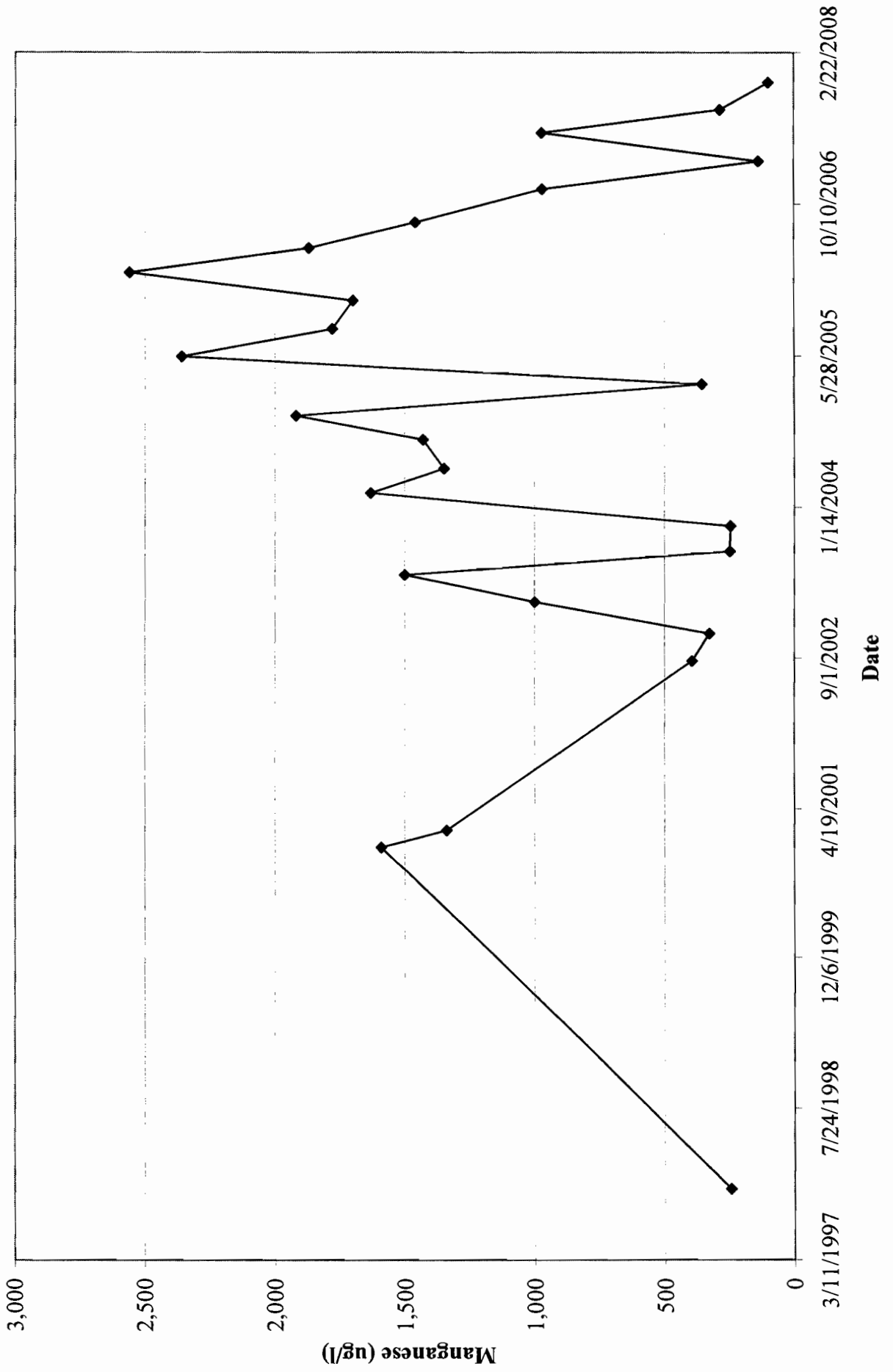
LEAD IN MW-11I



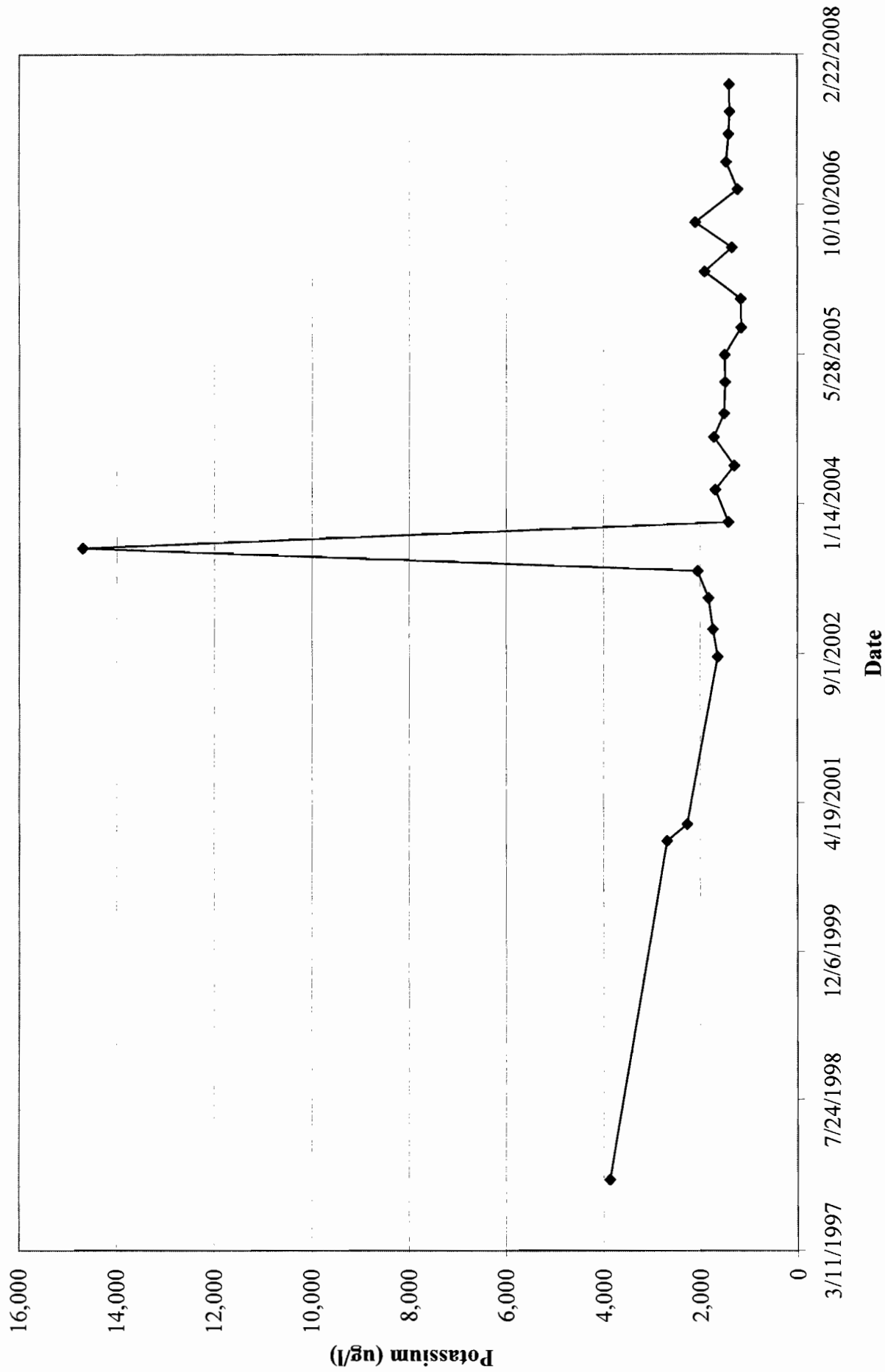
MAGNESIUM IN MW-11I



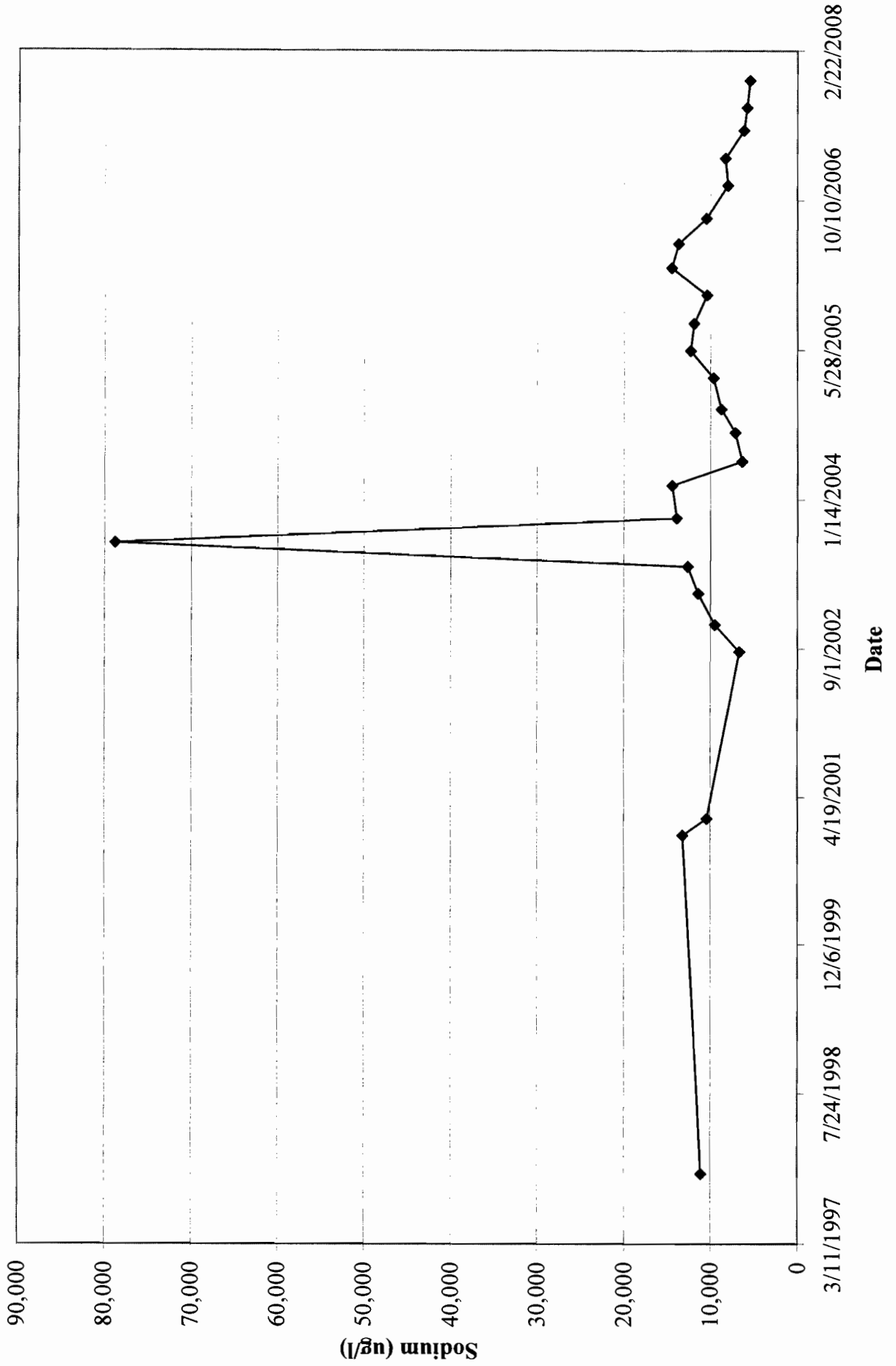
MANGANESE IN MW-11I



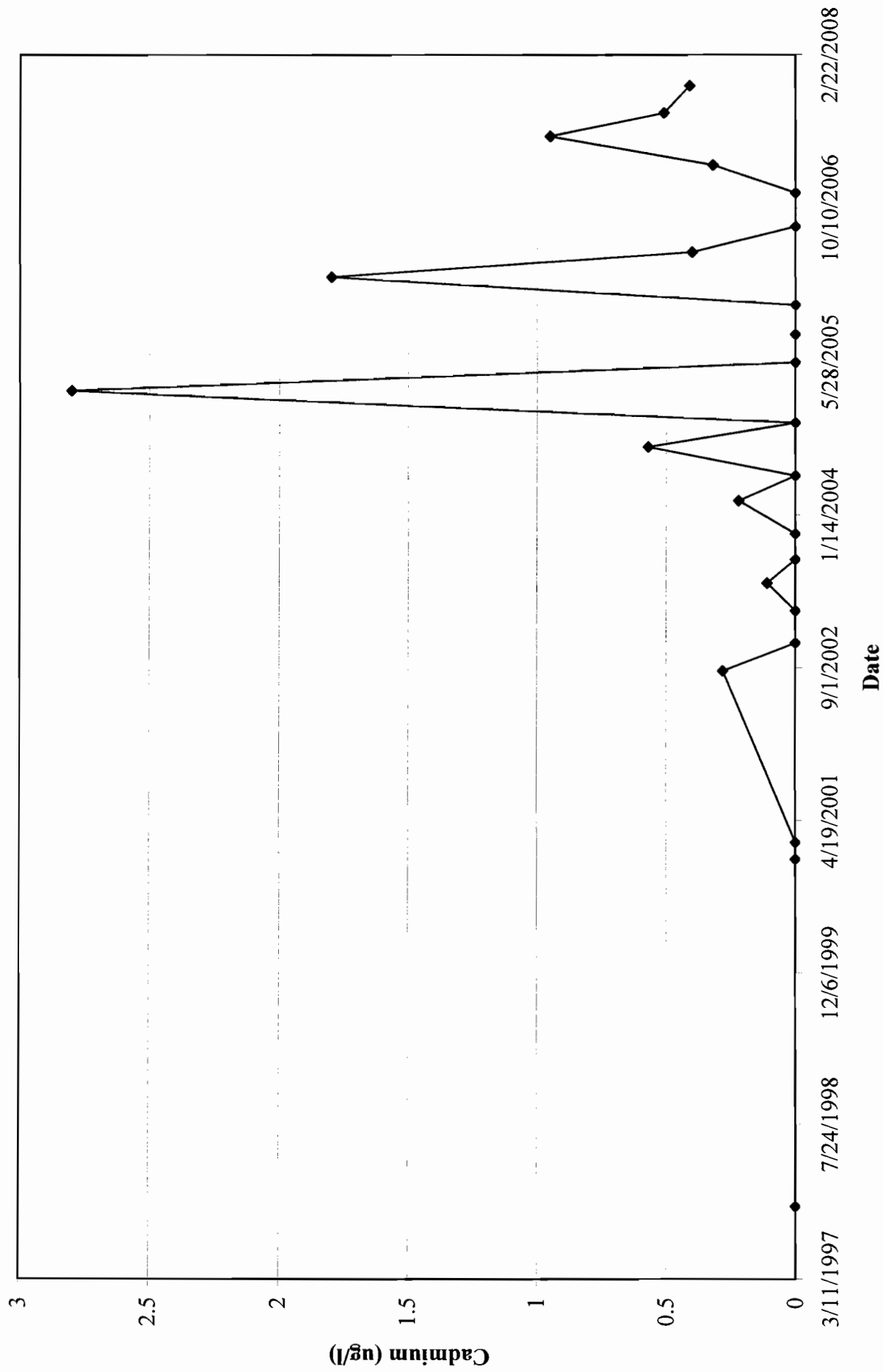
POTASSIUM IN MW-11I



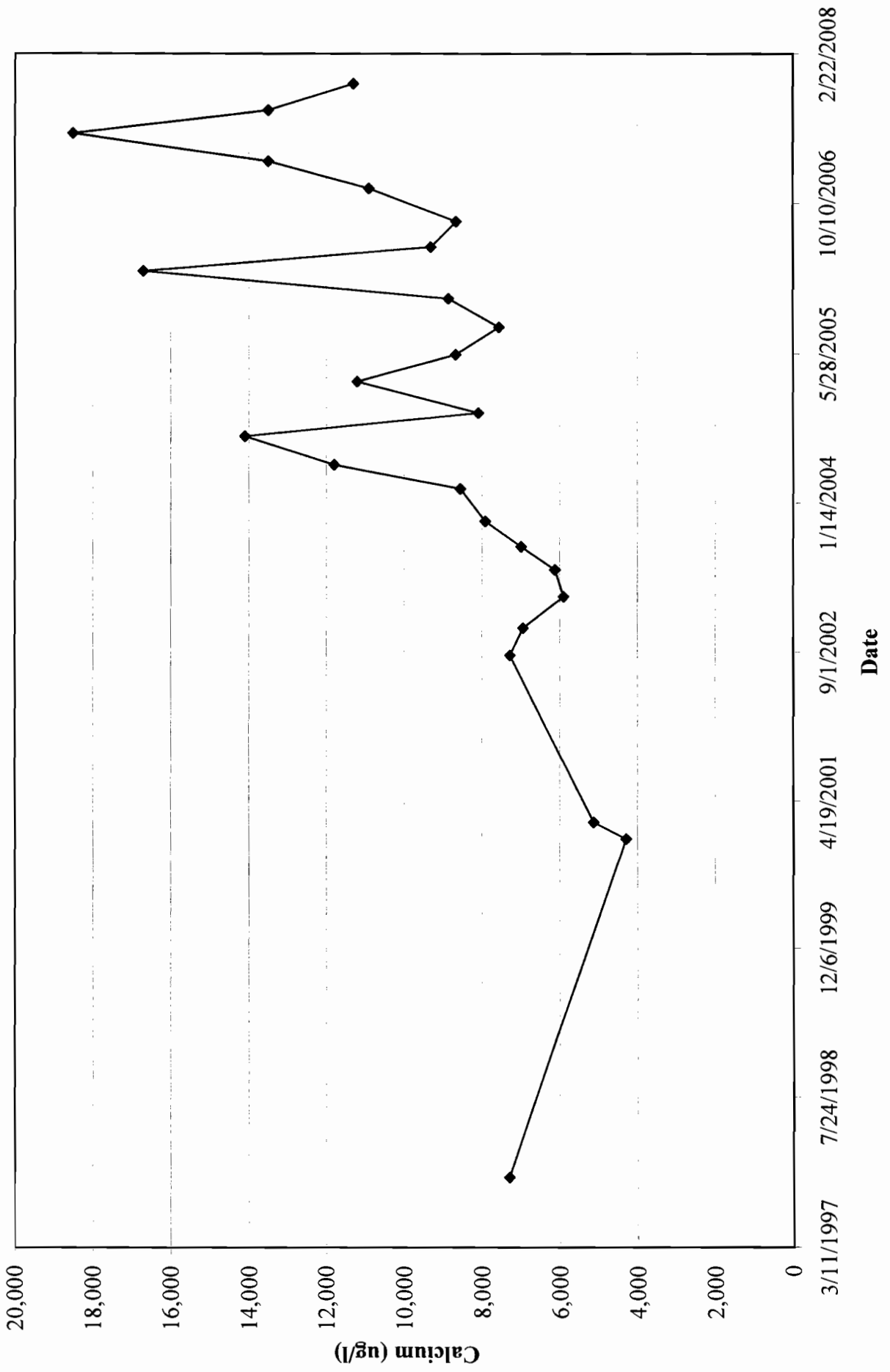
SODIUM IN MW-11I



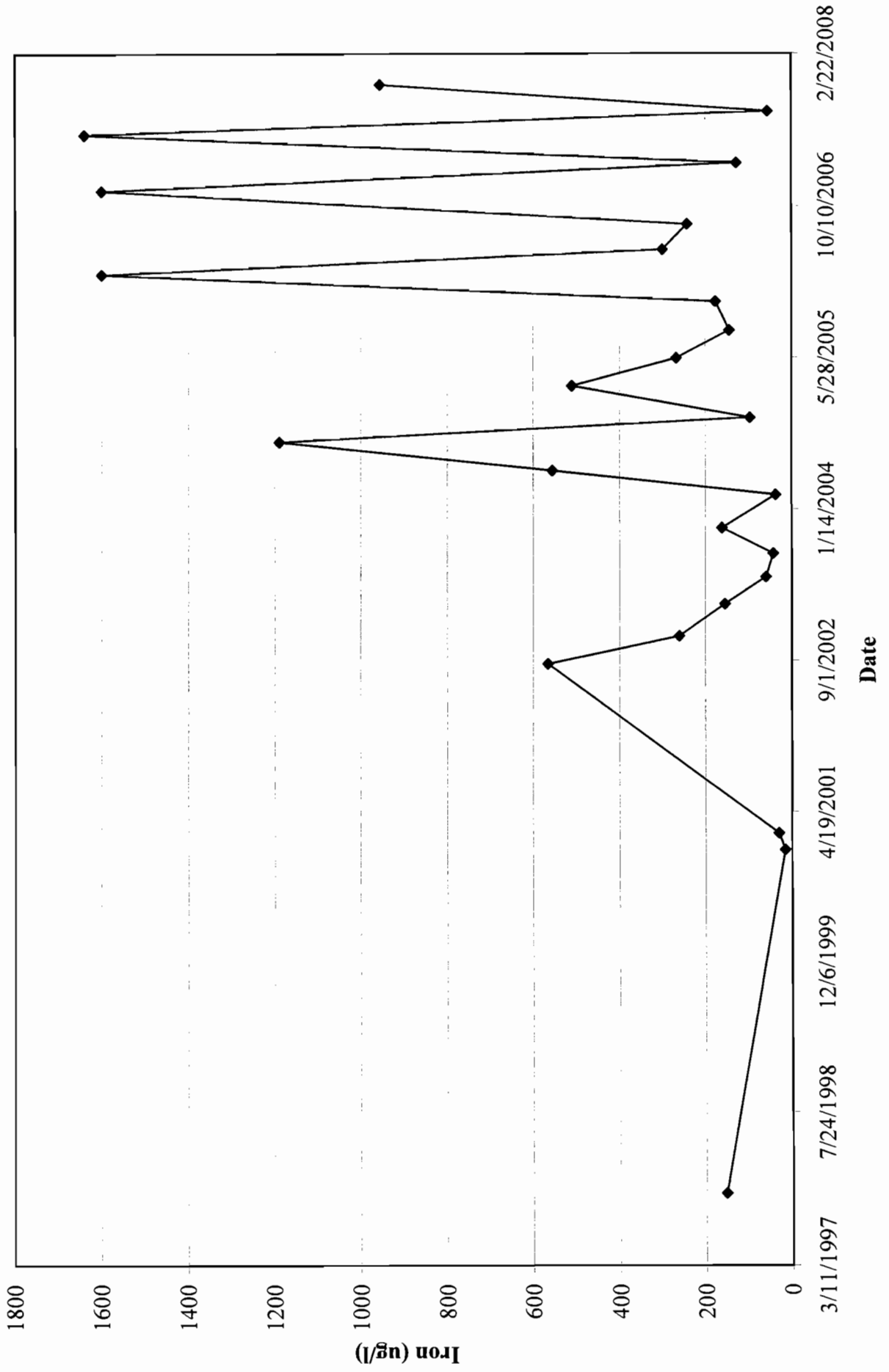
CADMIUM IN MW-11D



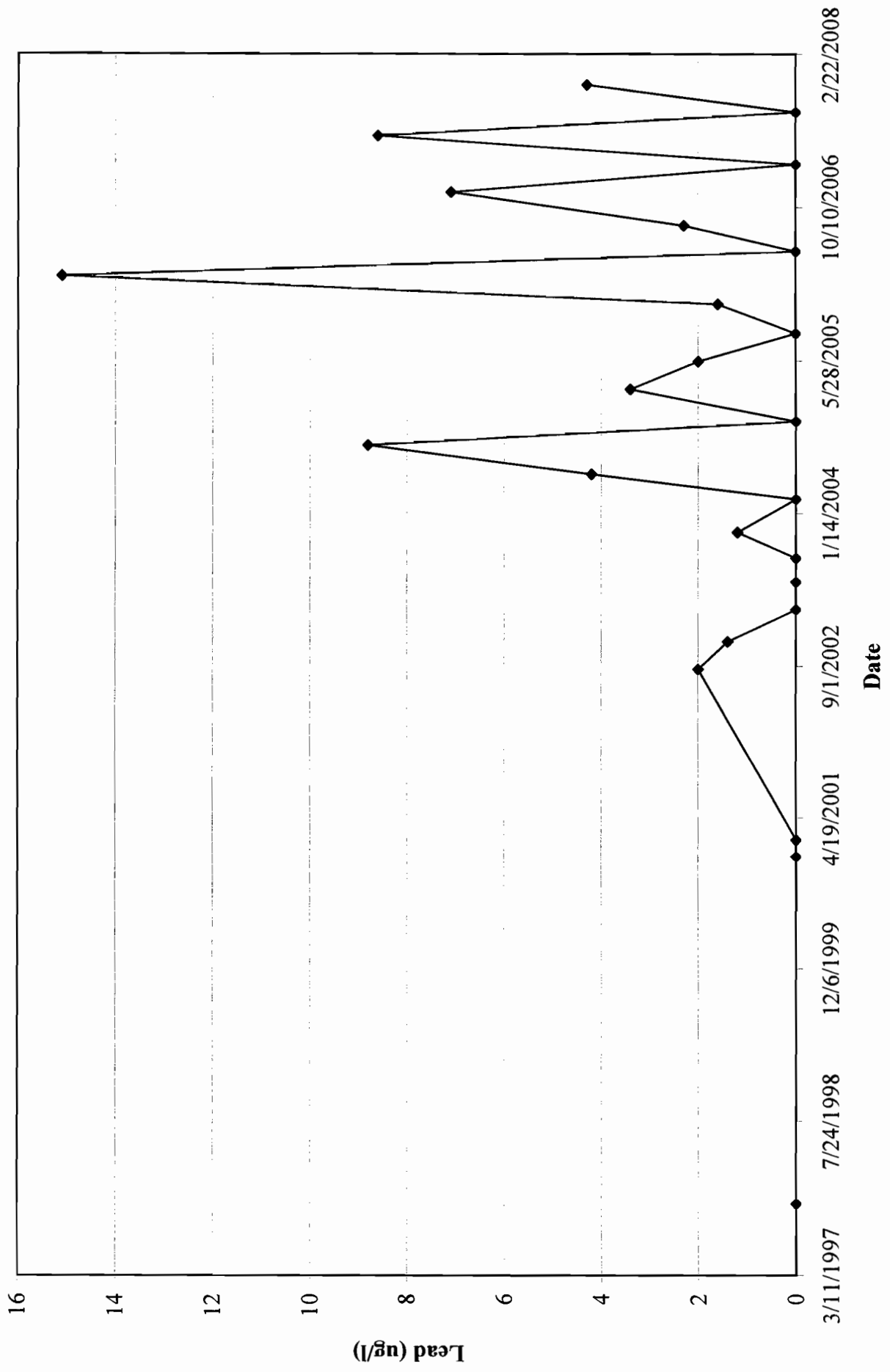
CALCIUM IN MW-11D



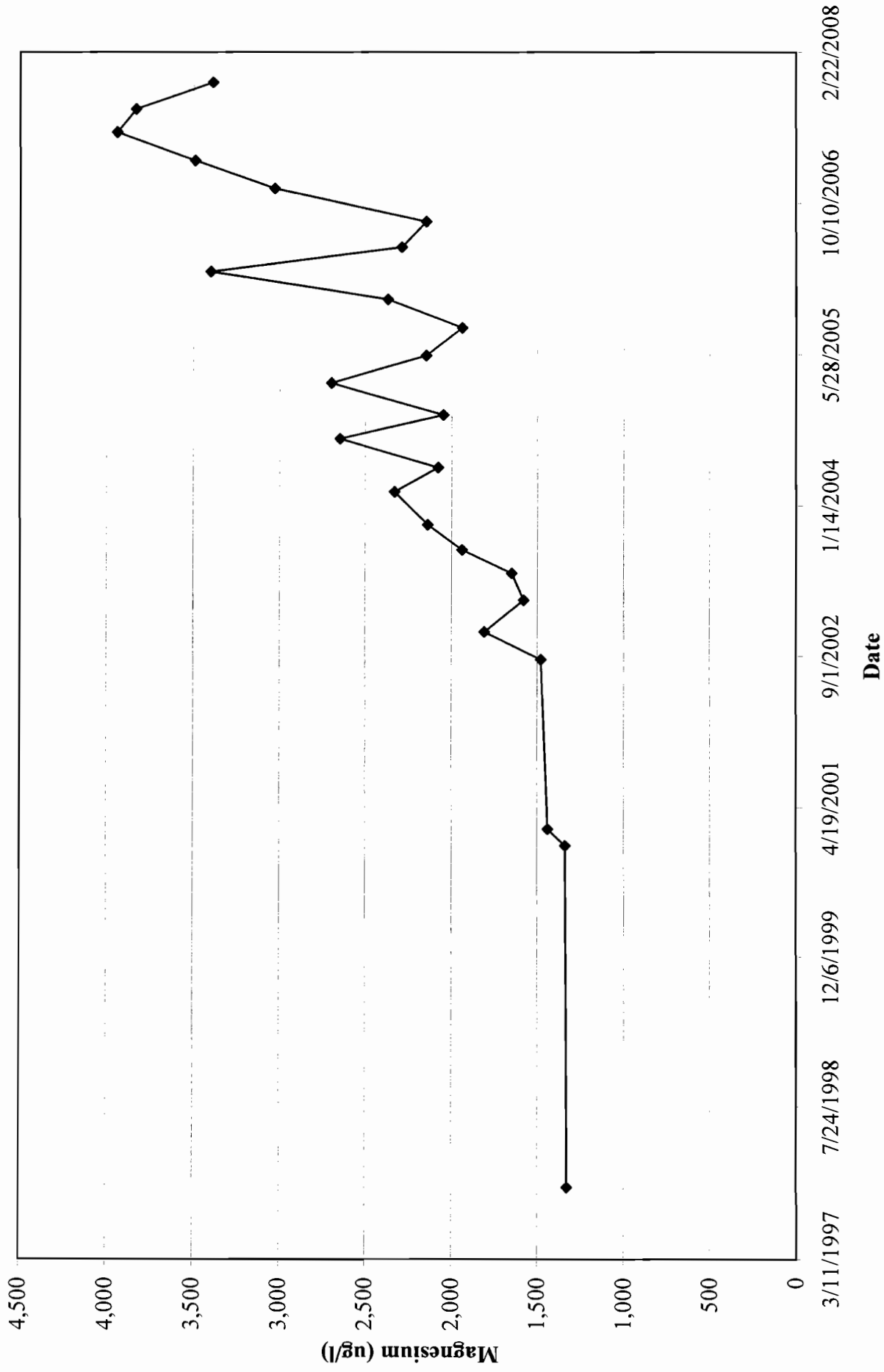
IRON IN MW-11D



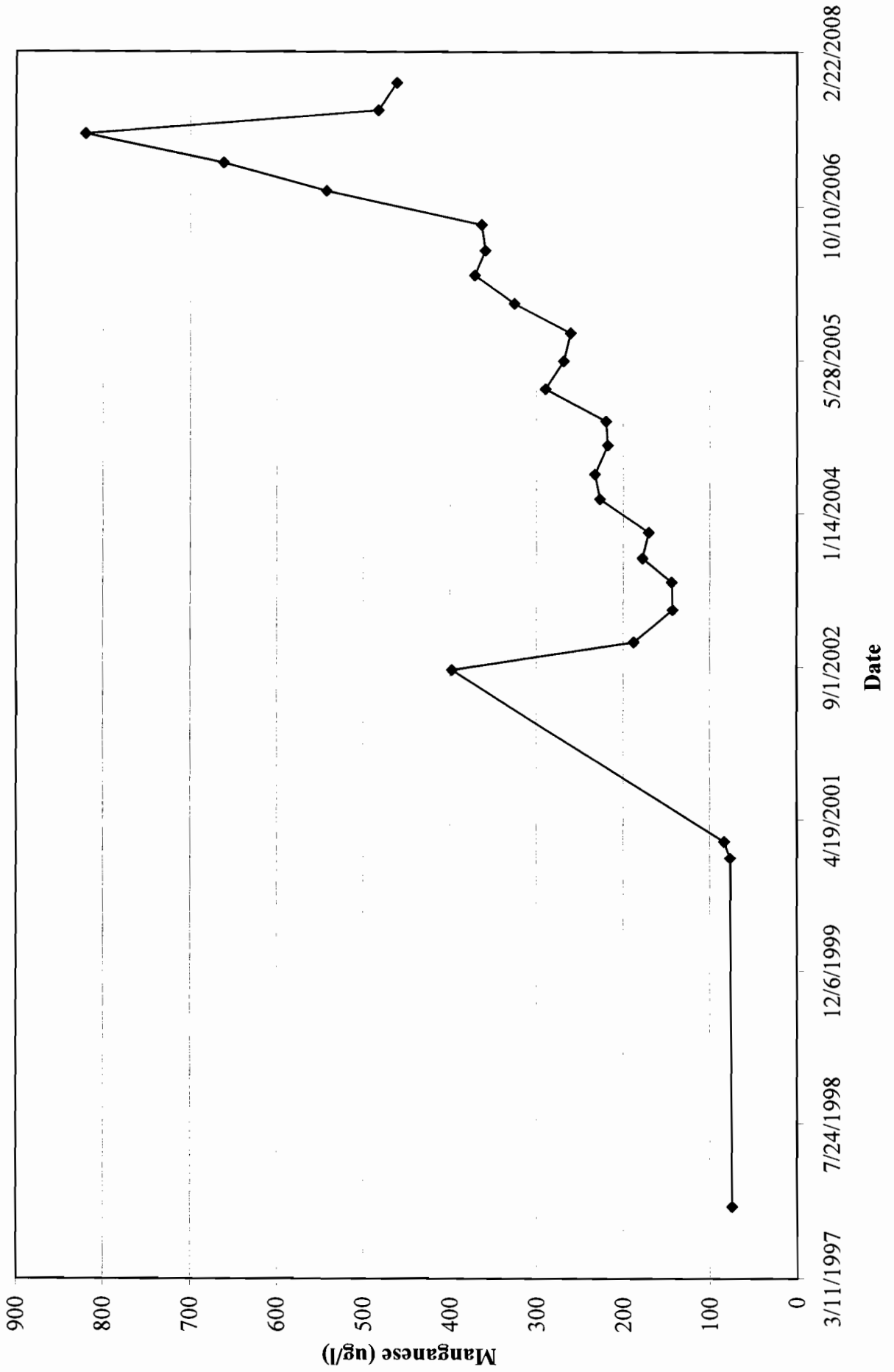
LEAD IN MW-11D



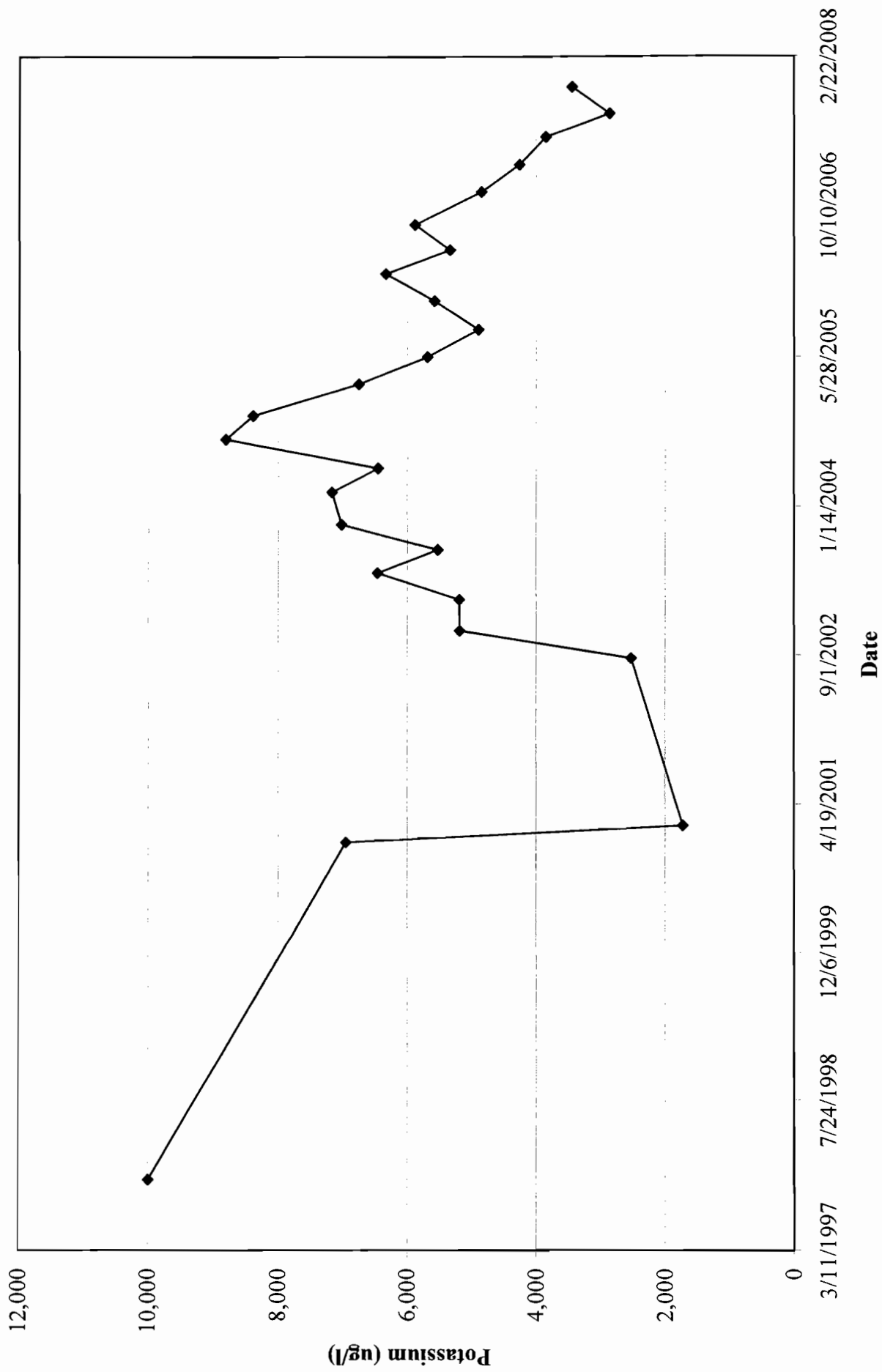
MAGNESIUM IN MW-11D



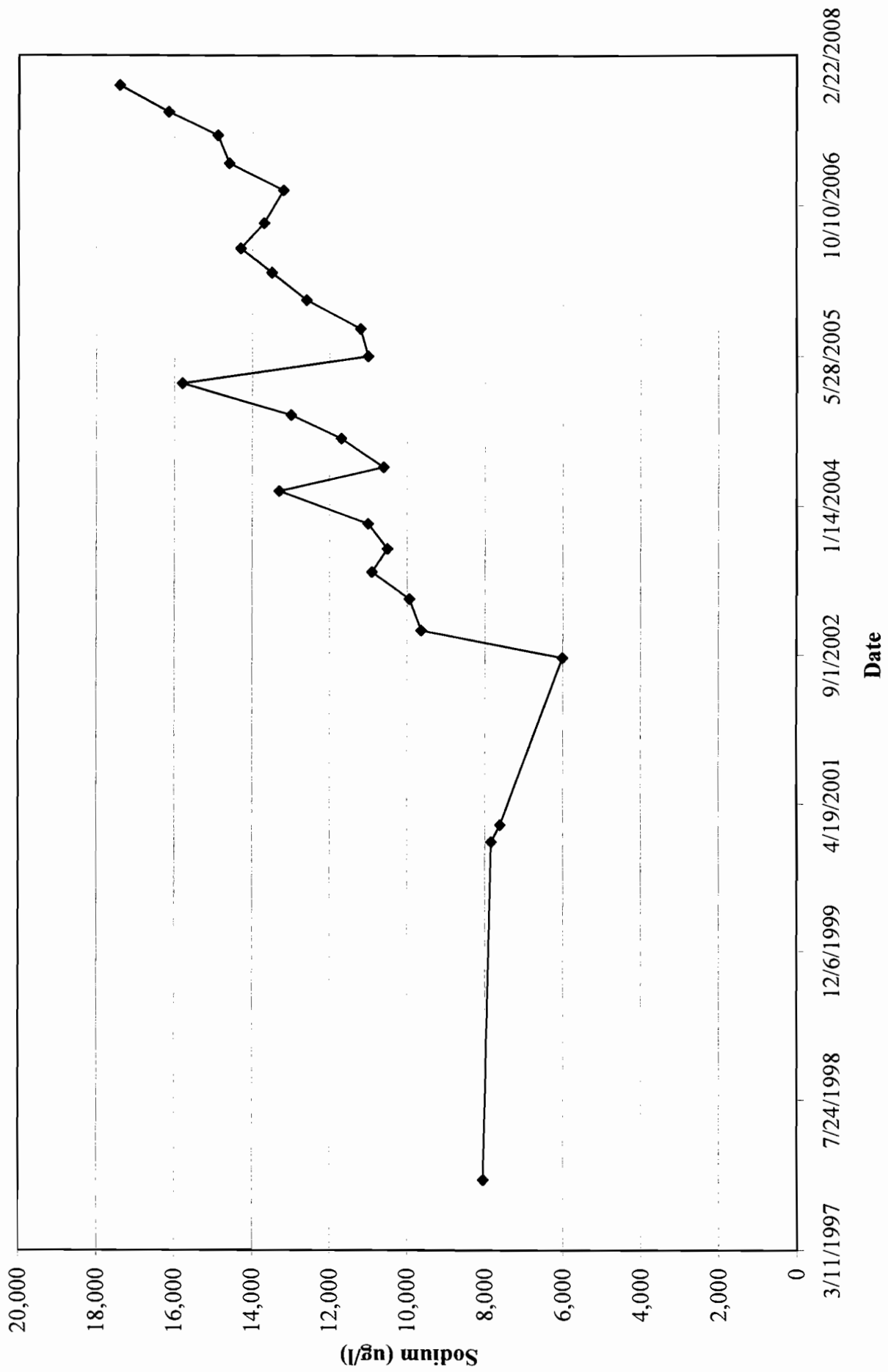
MANGANESE IN MW-11D



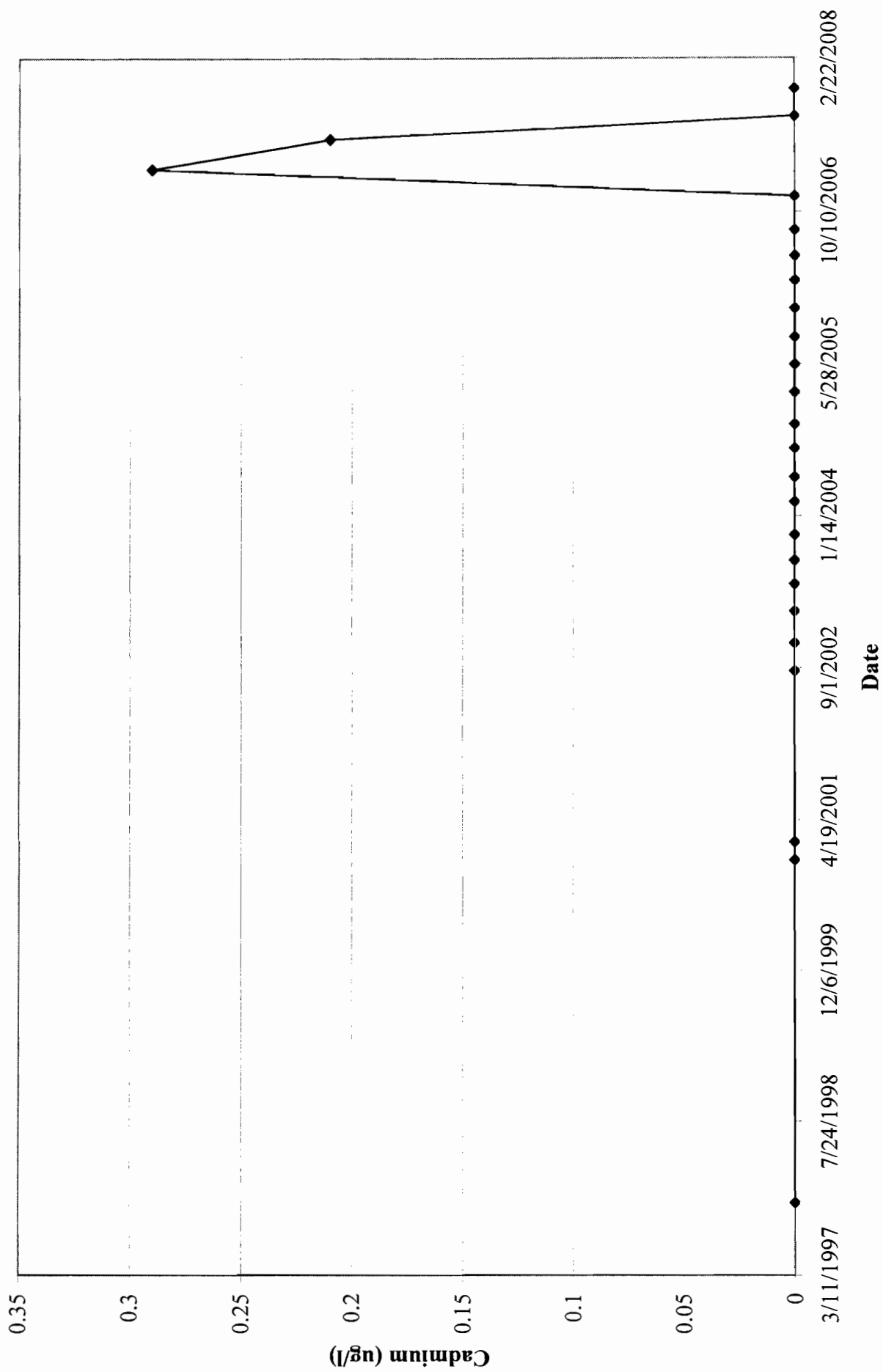
POTASSIUM IN MW-11D



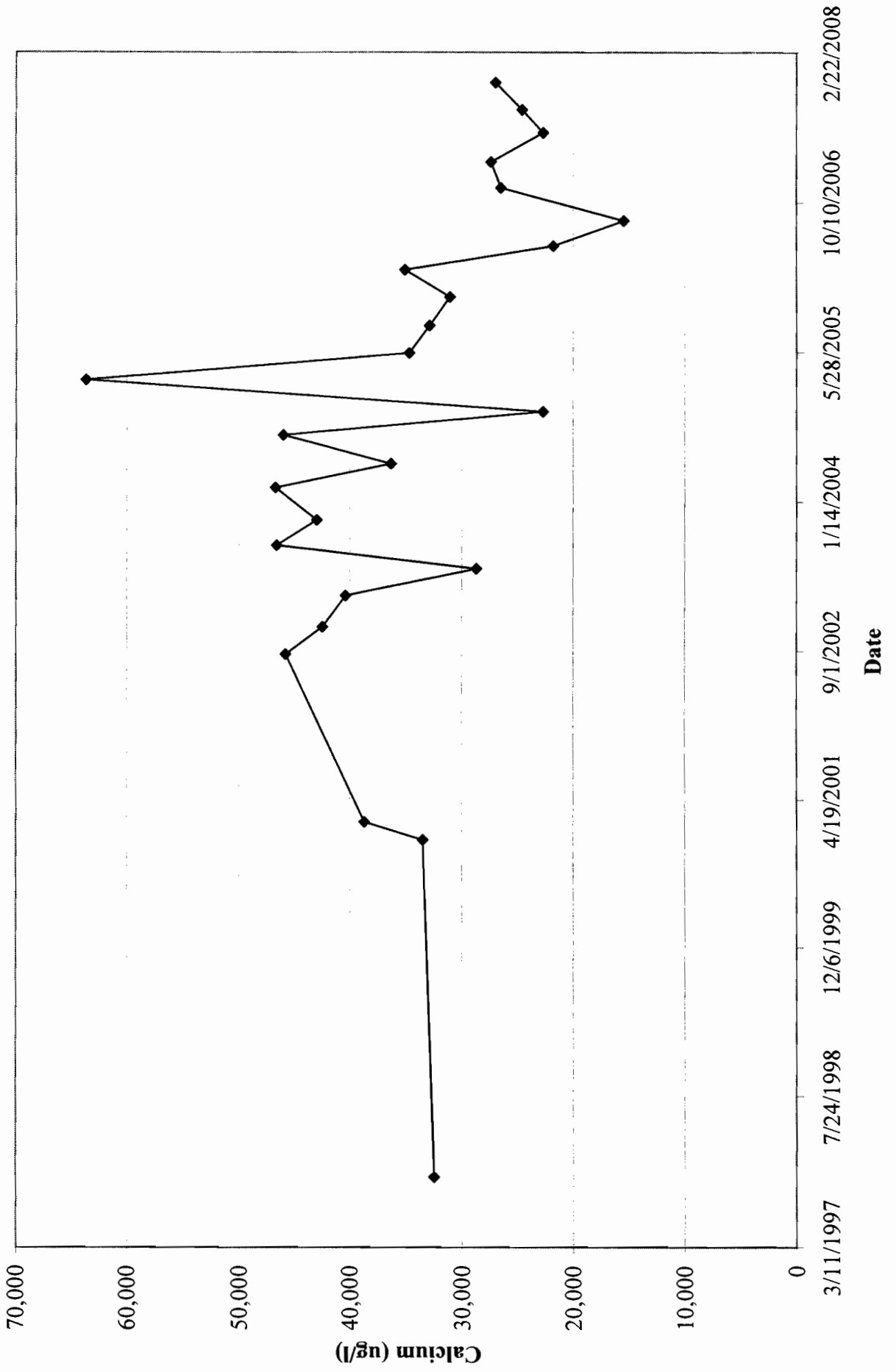
SODIUM IN MW-11D



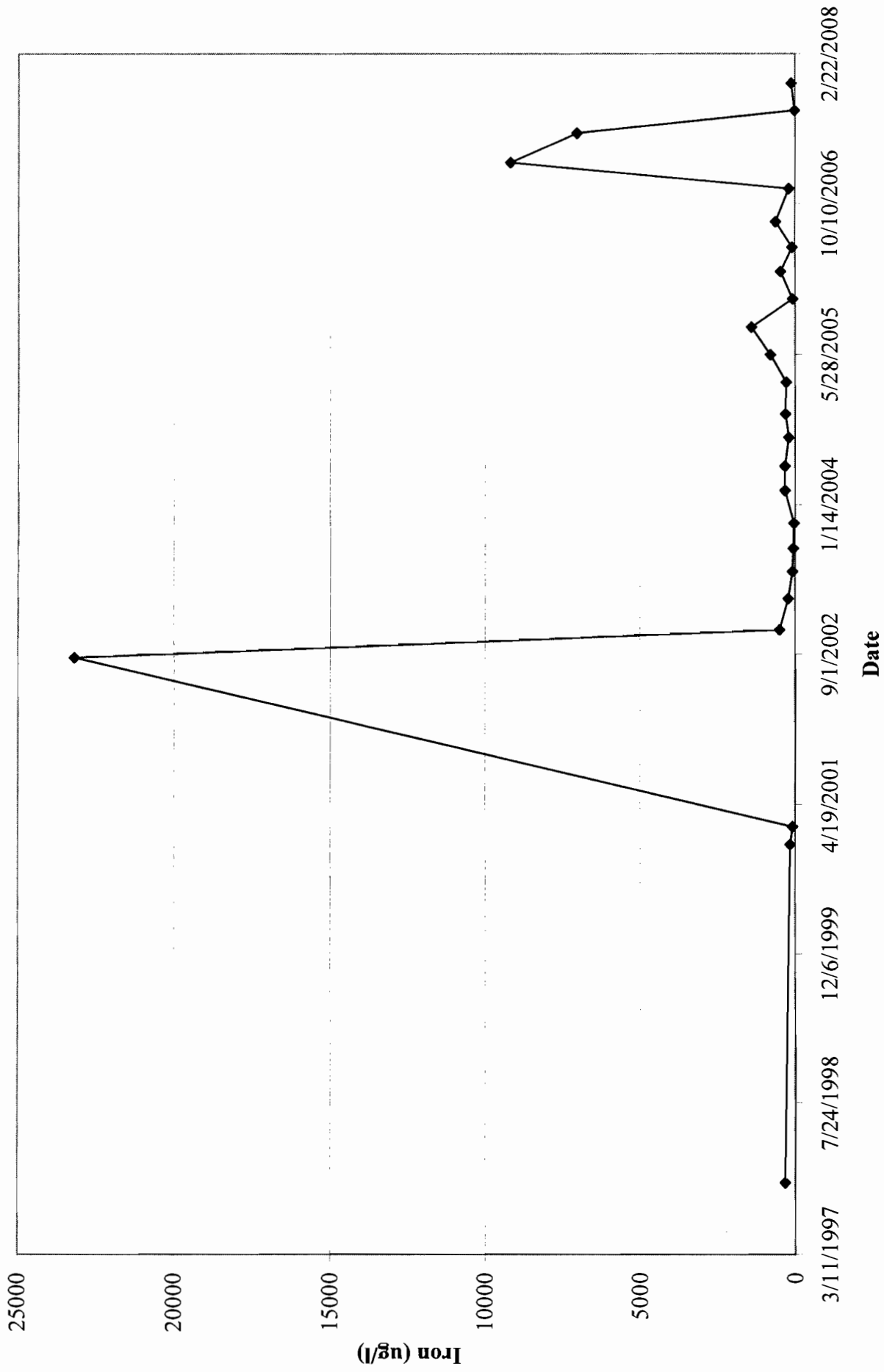
CADMIUM IN MW-12S



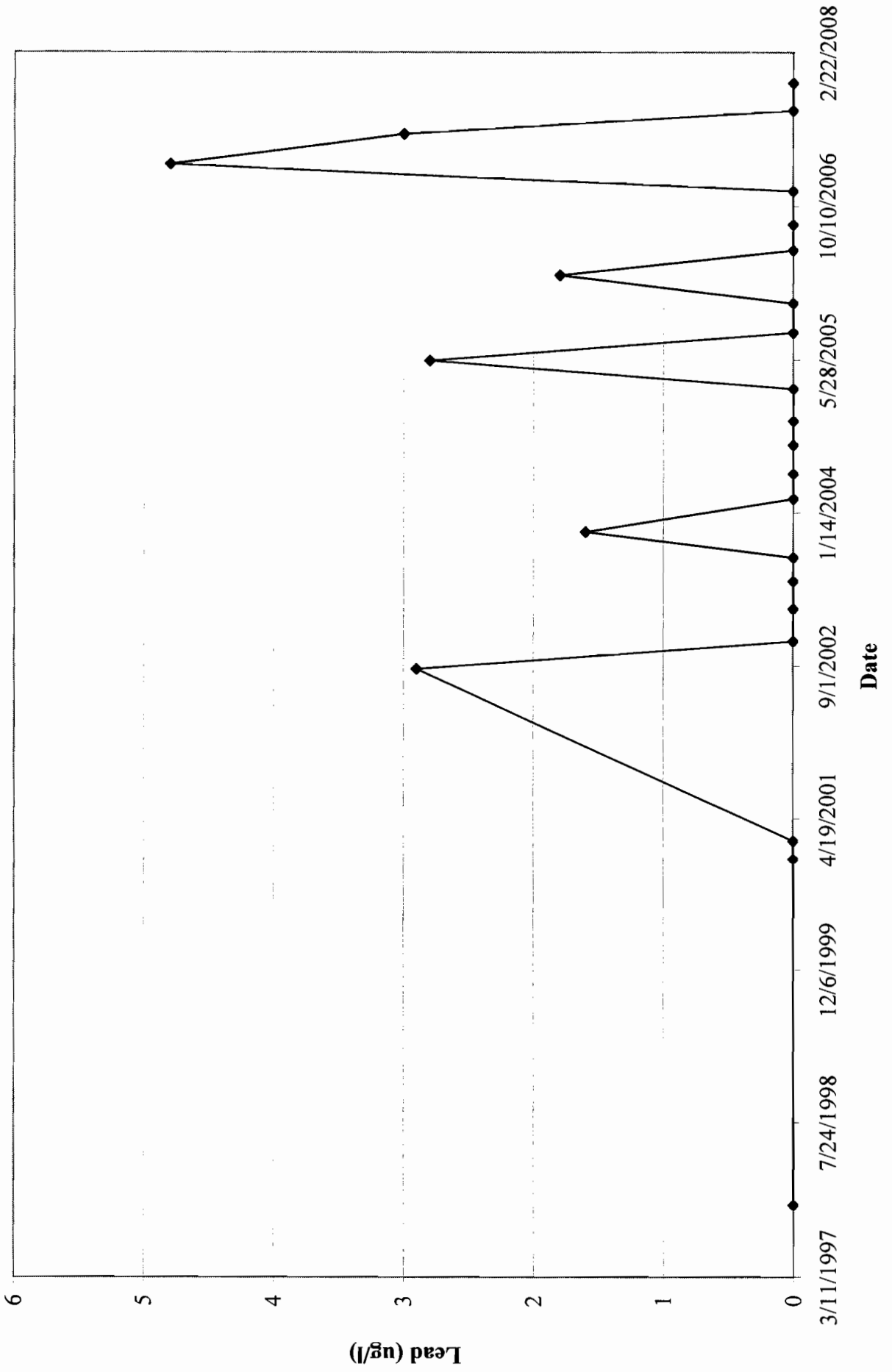
CALCIUM IN MW-12S



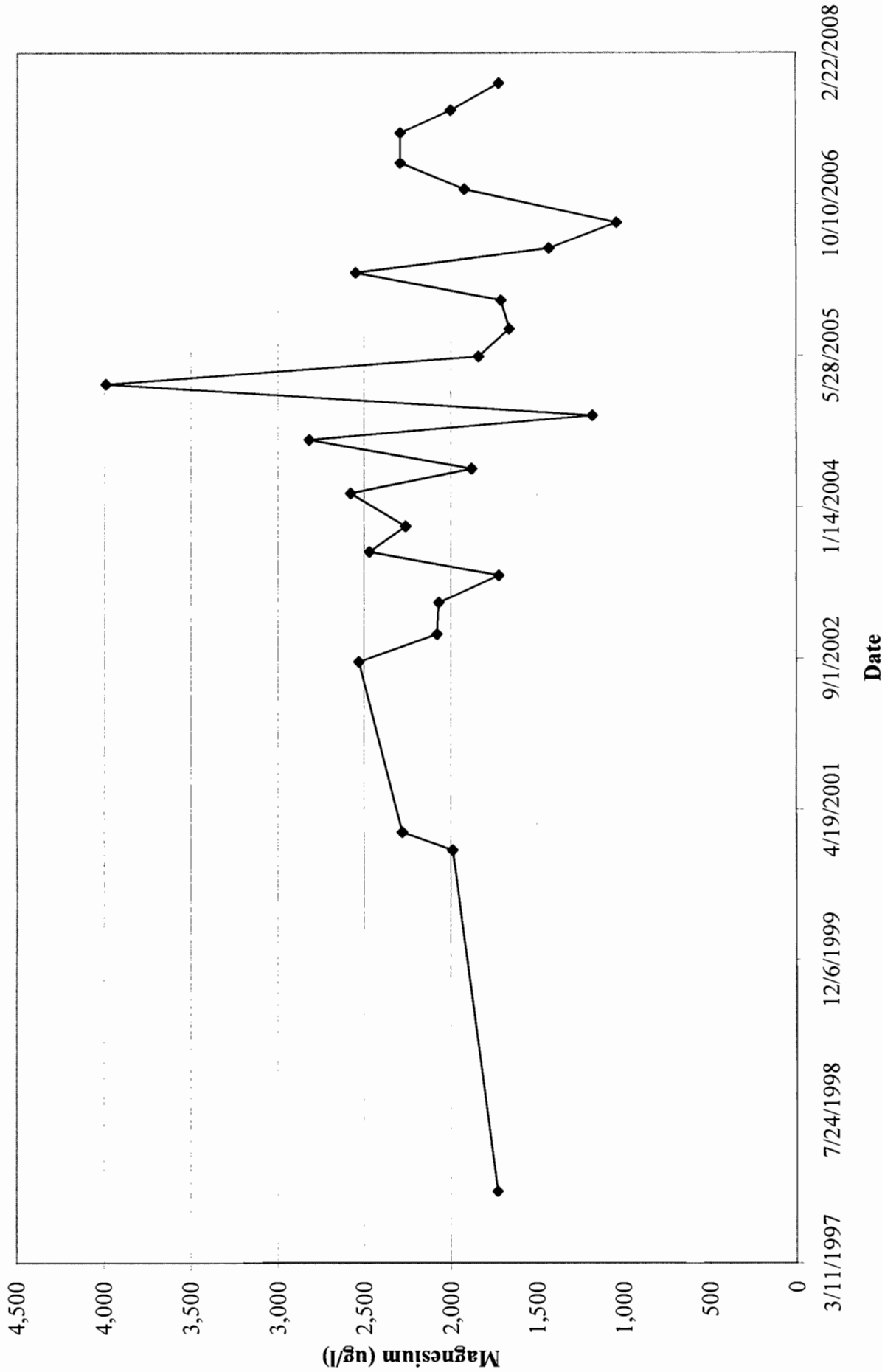
IRON IN MW-12S



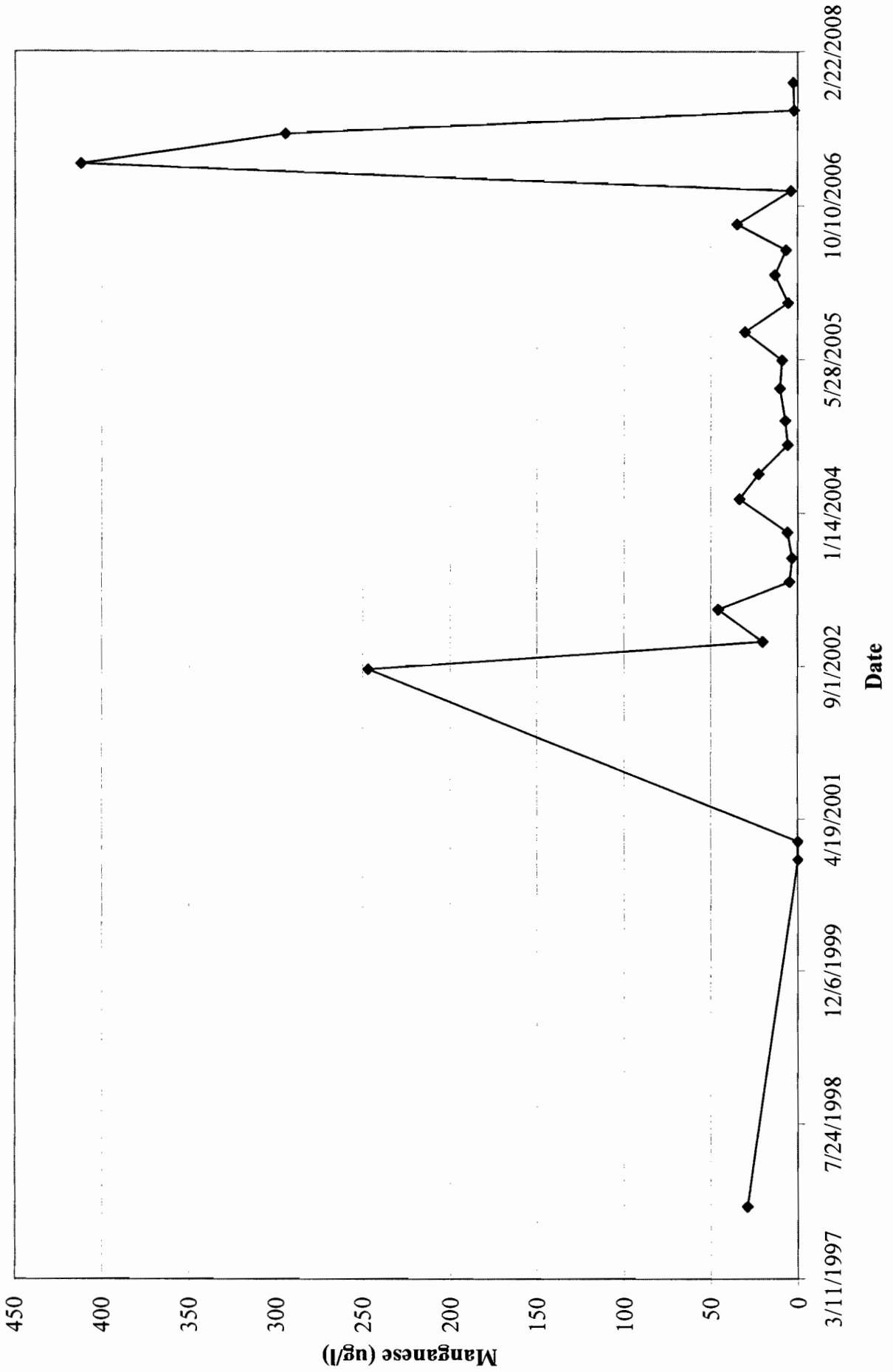
LEAD IN MW-12S



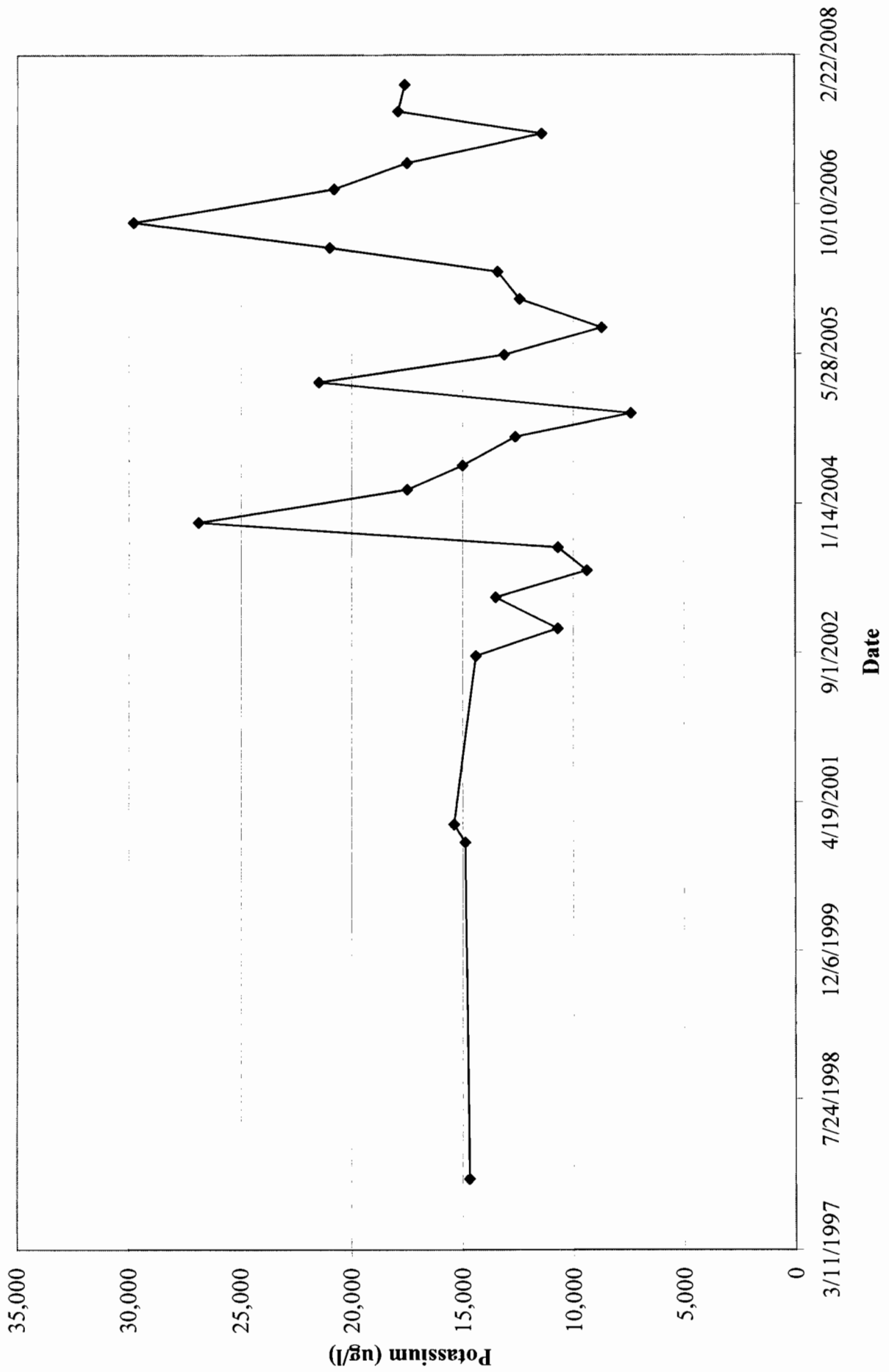
MAGNESIUM IN MW-12S



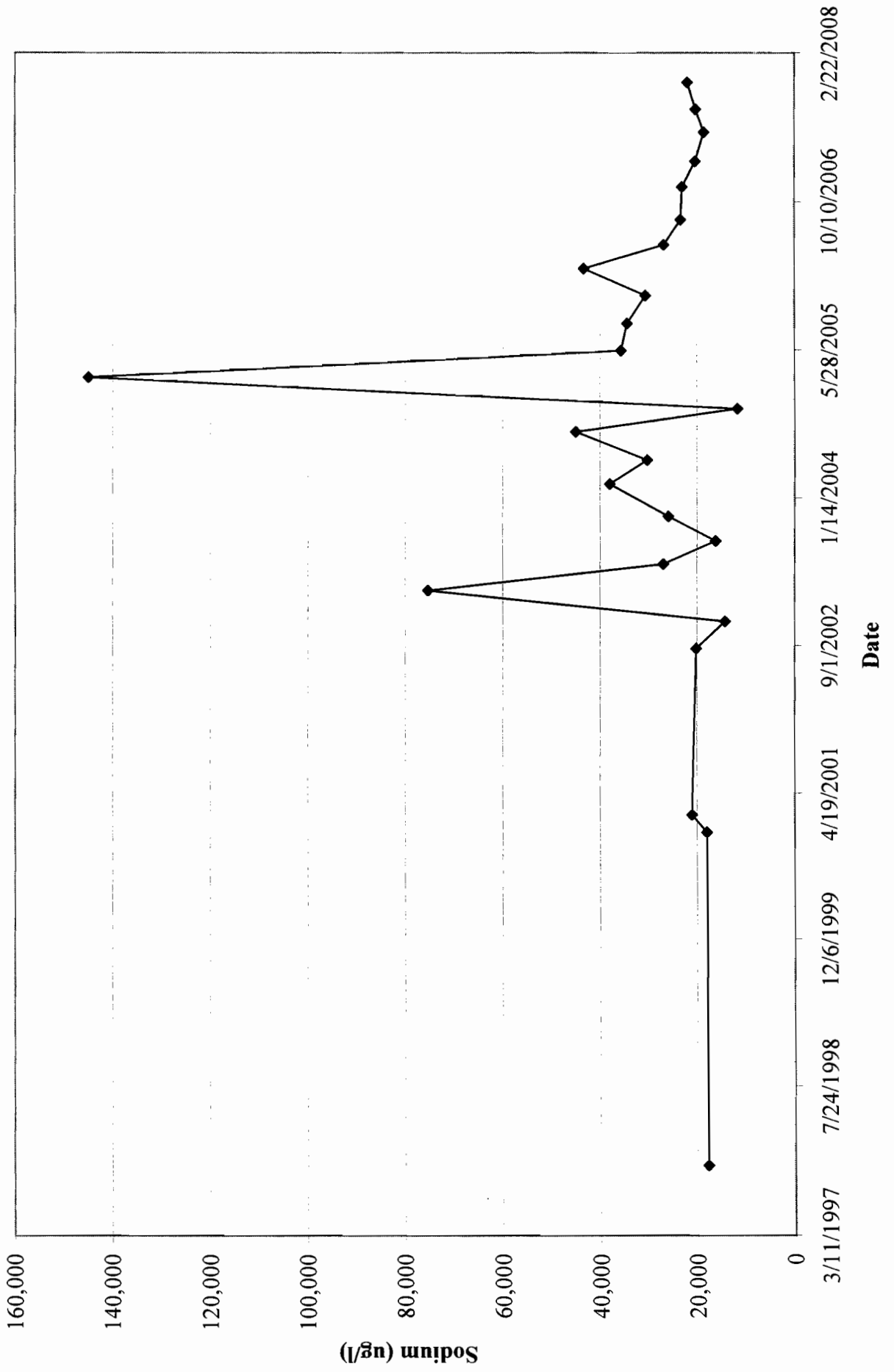
MANGANESE IN MW-12S



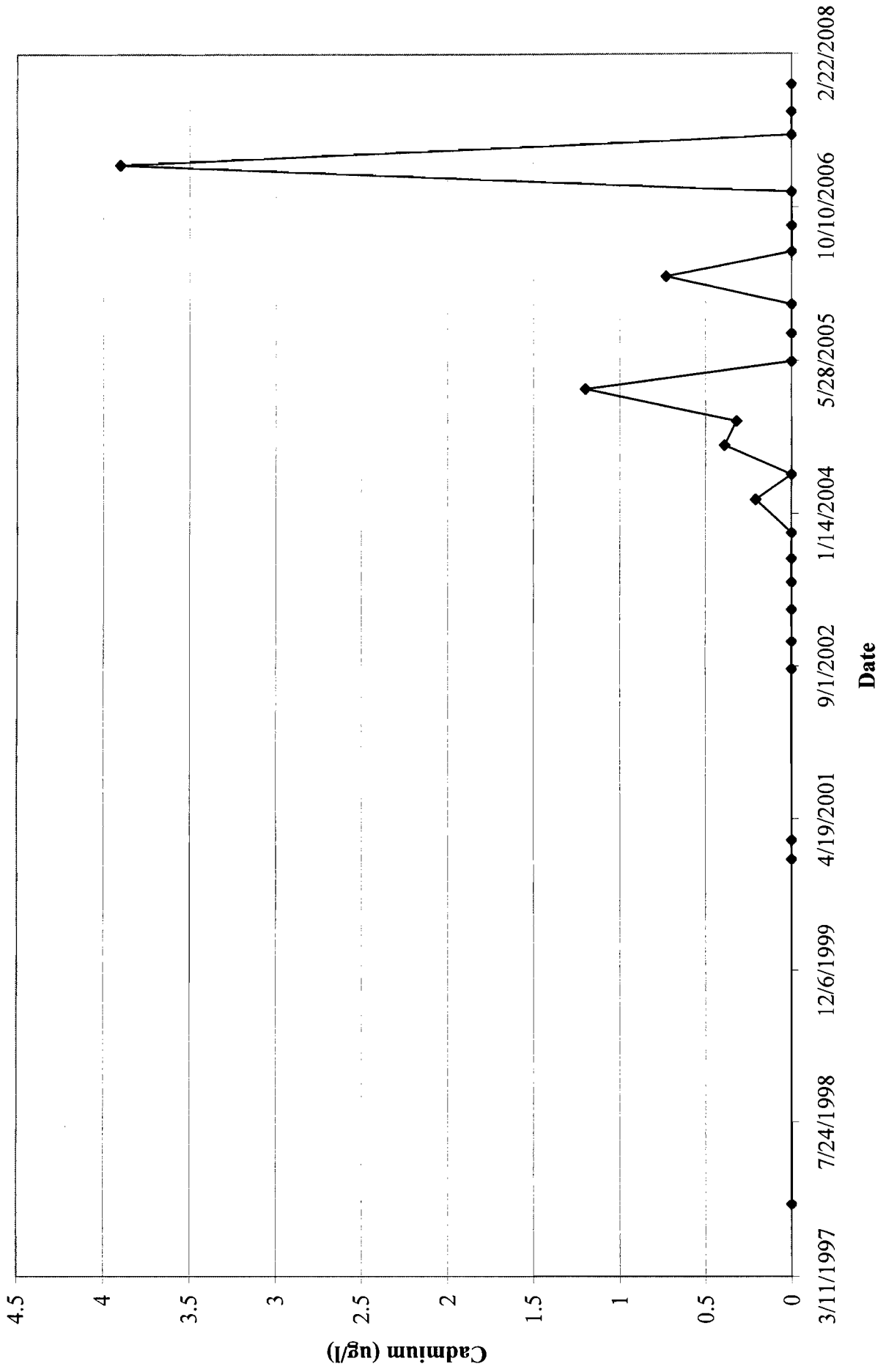
POTASSIUM IN MW-12S



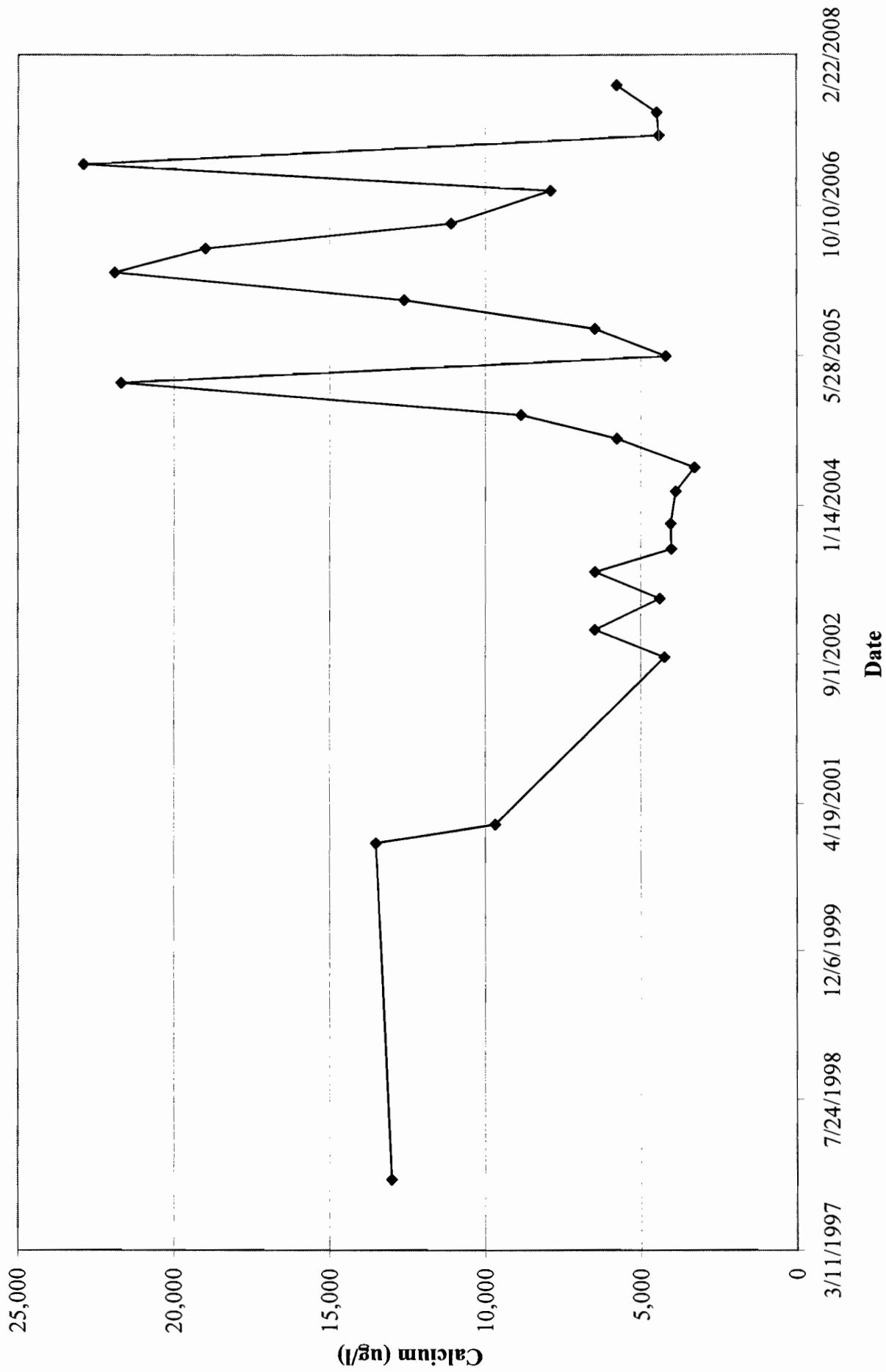
SODIUM IN MW-12S



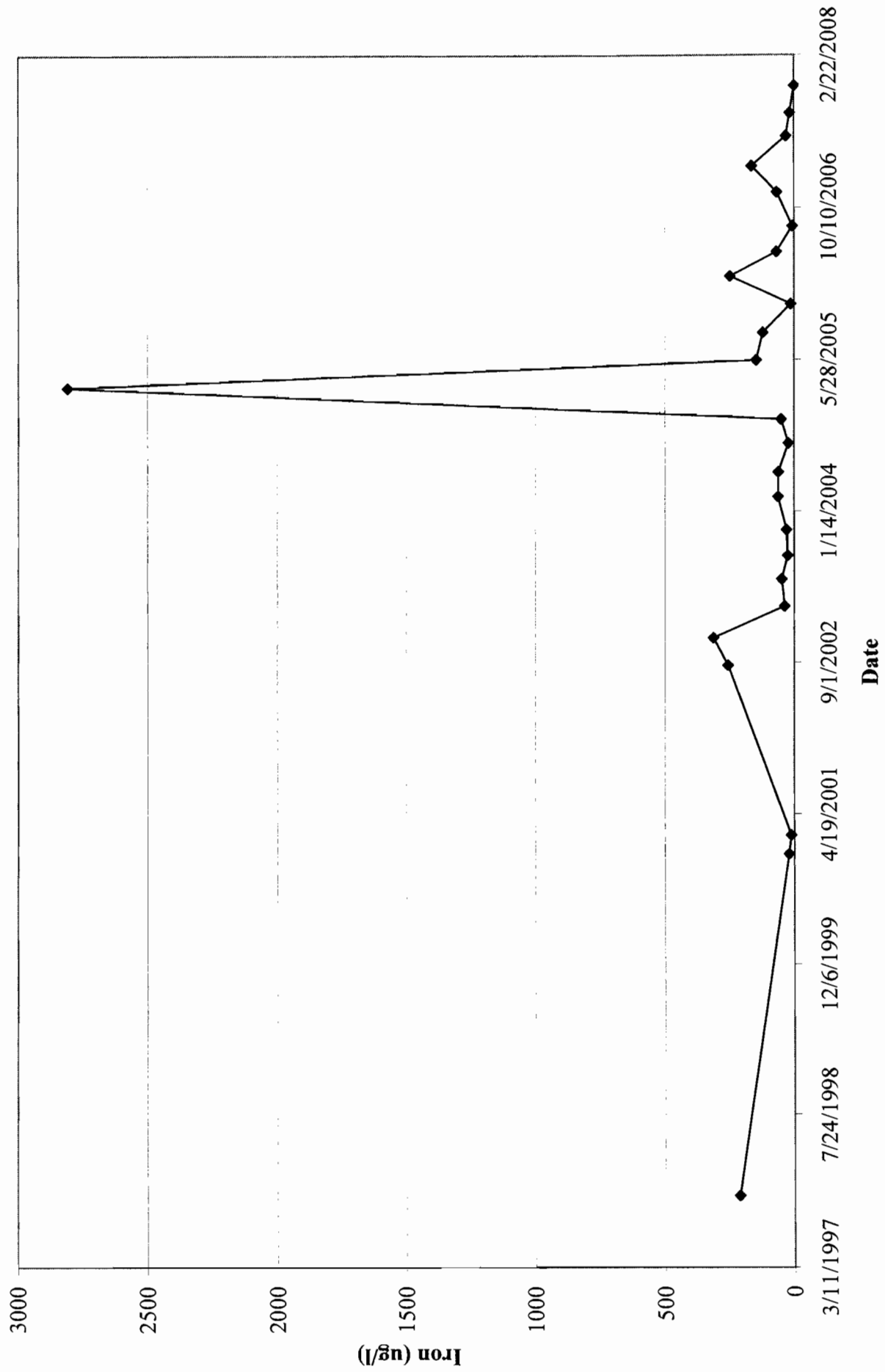
CADMIUM IN MW-12I



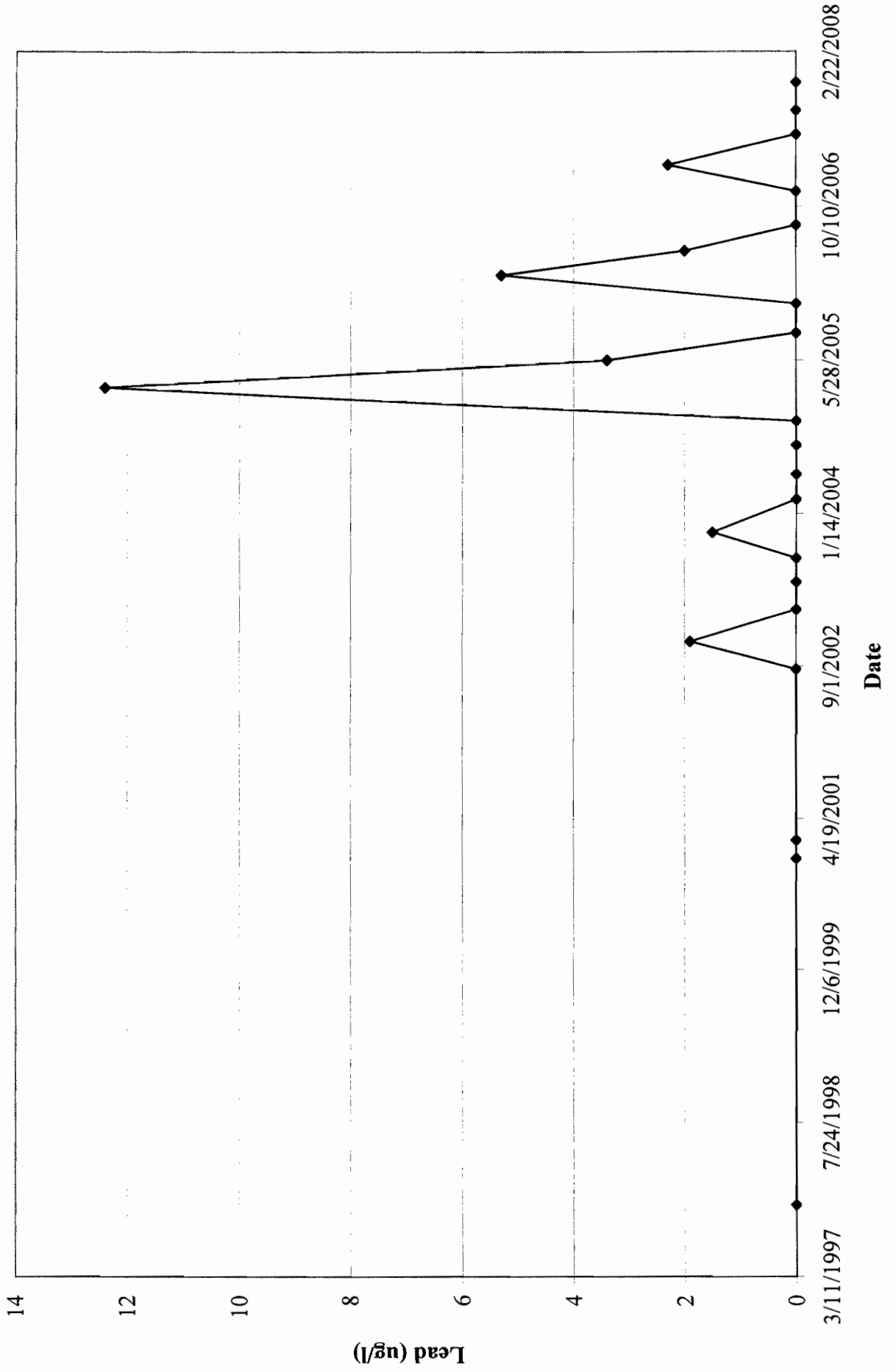
CALCIUM IN MW-12I



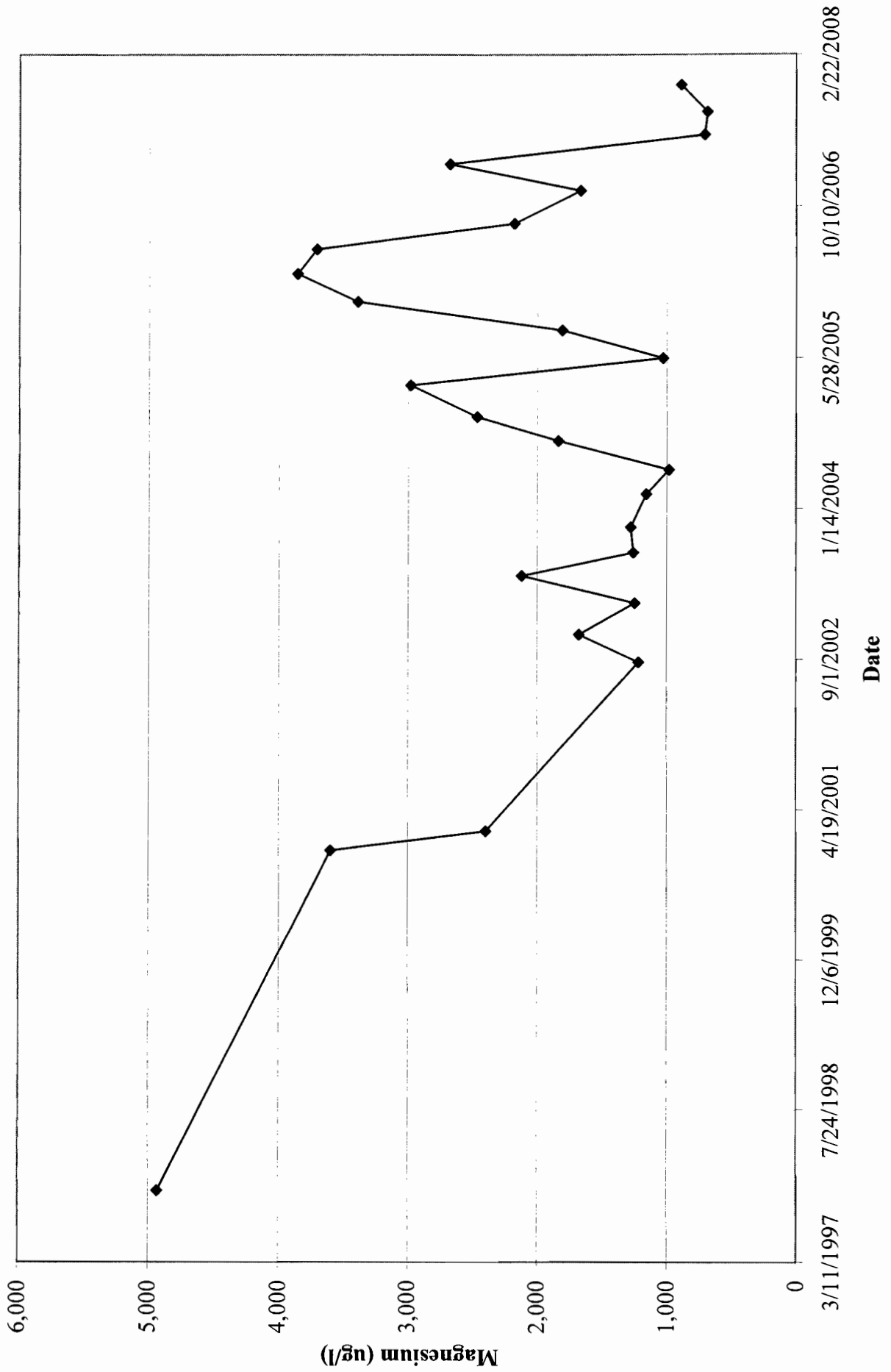
IRON IN MW-12I



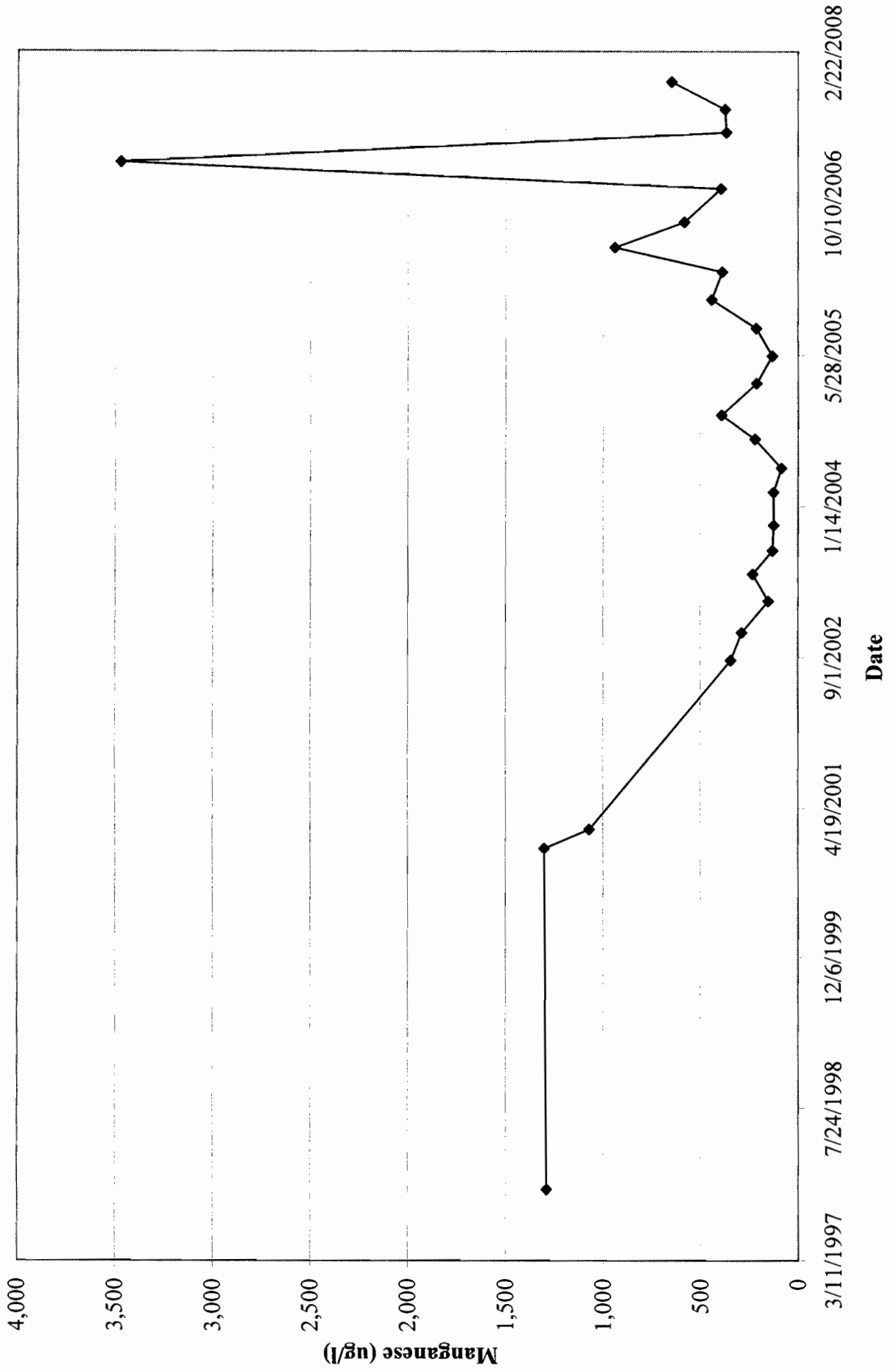
LEAD IN MW-12I



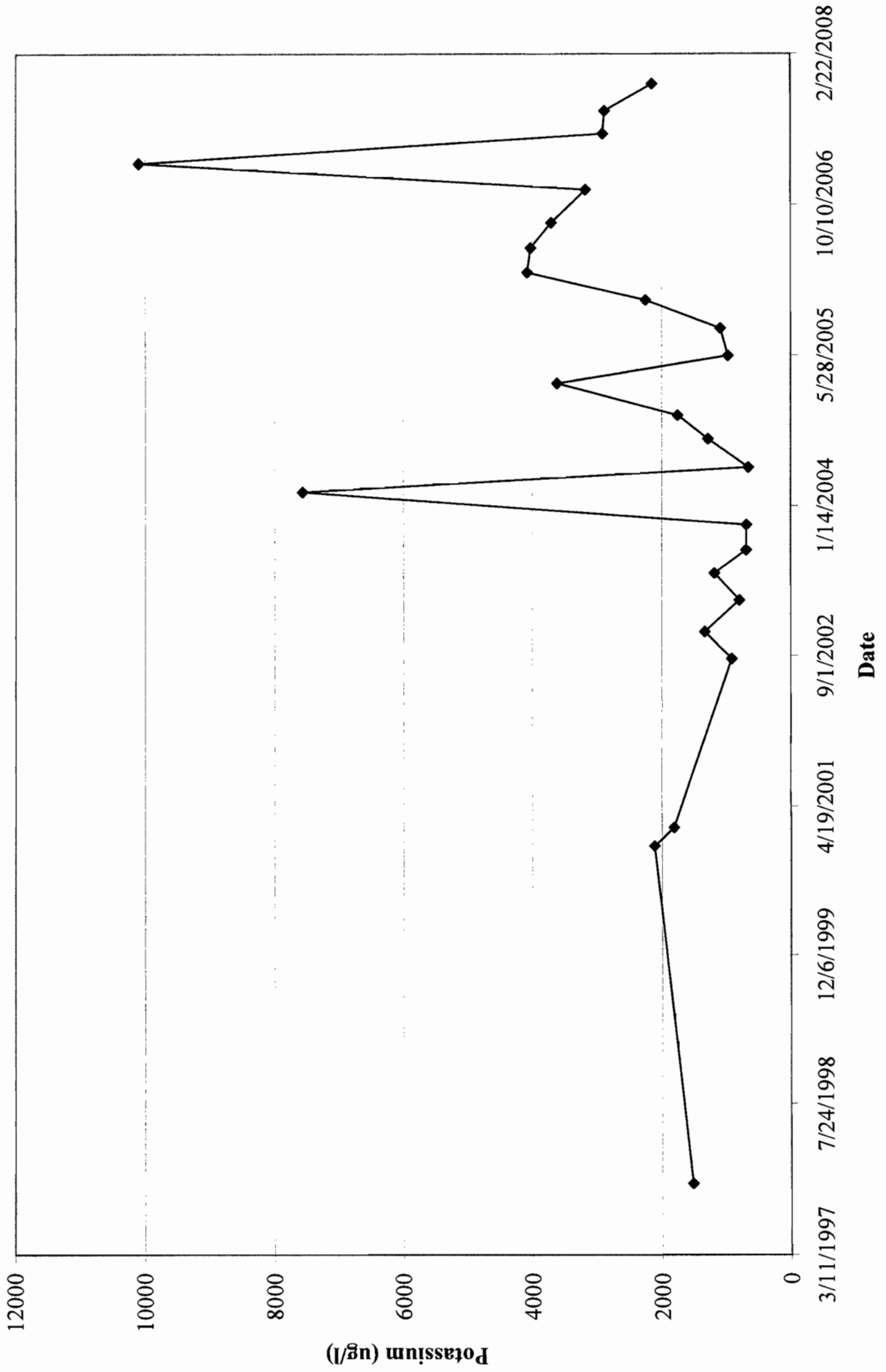
MAGNESIUM IN MW-12I



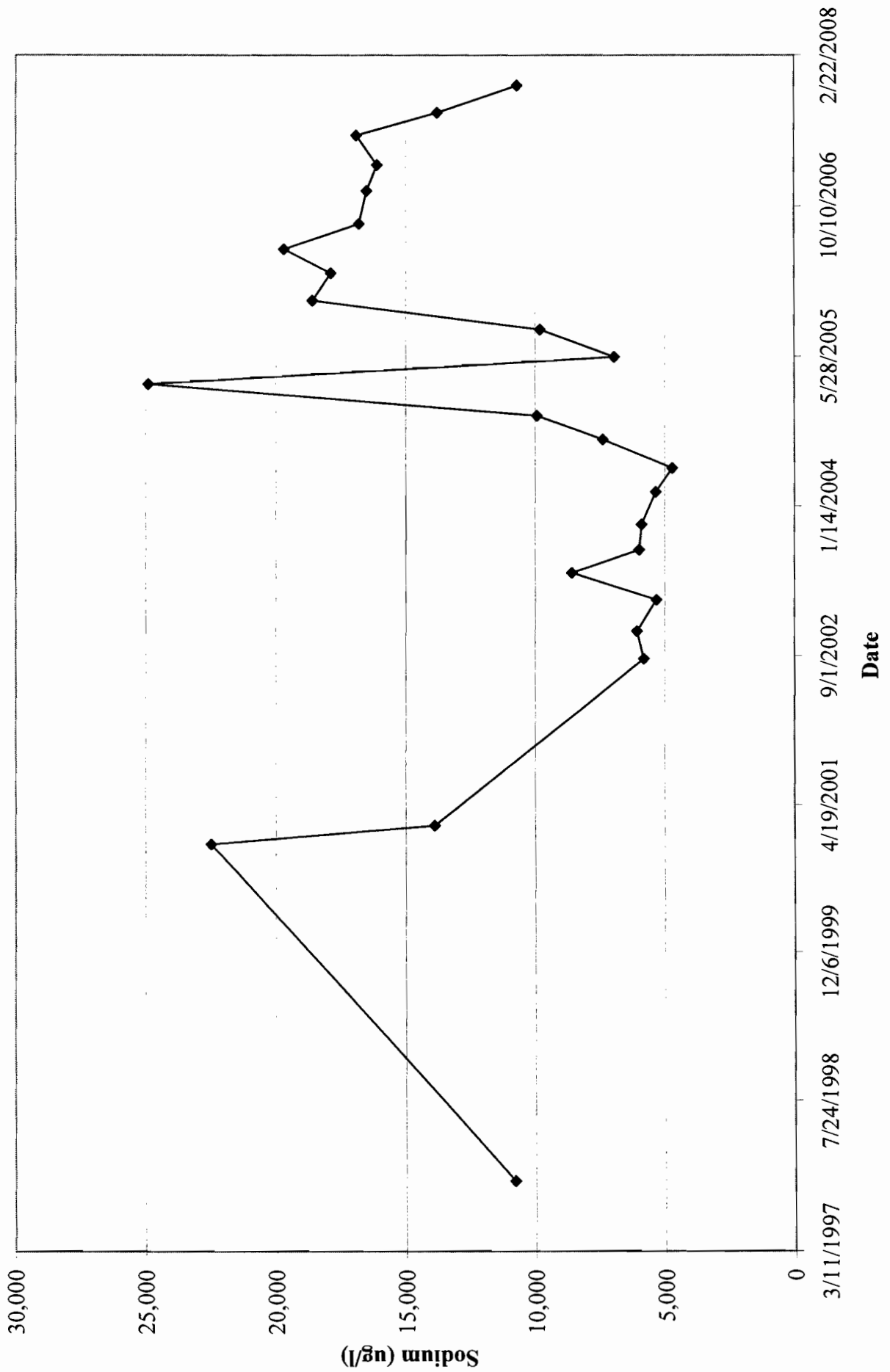
MANGANESE IN MW-12I



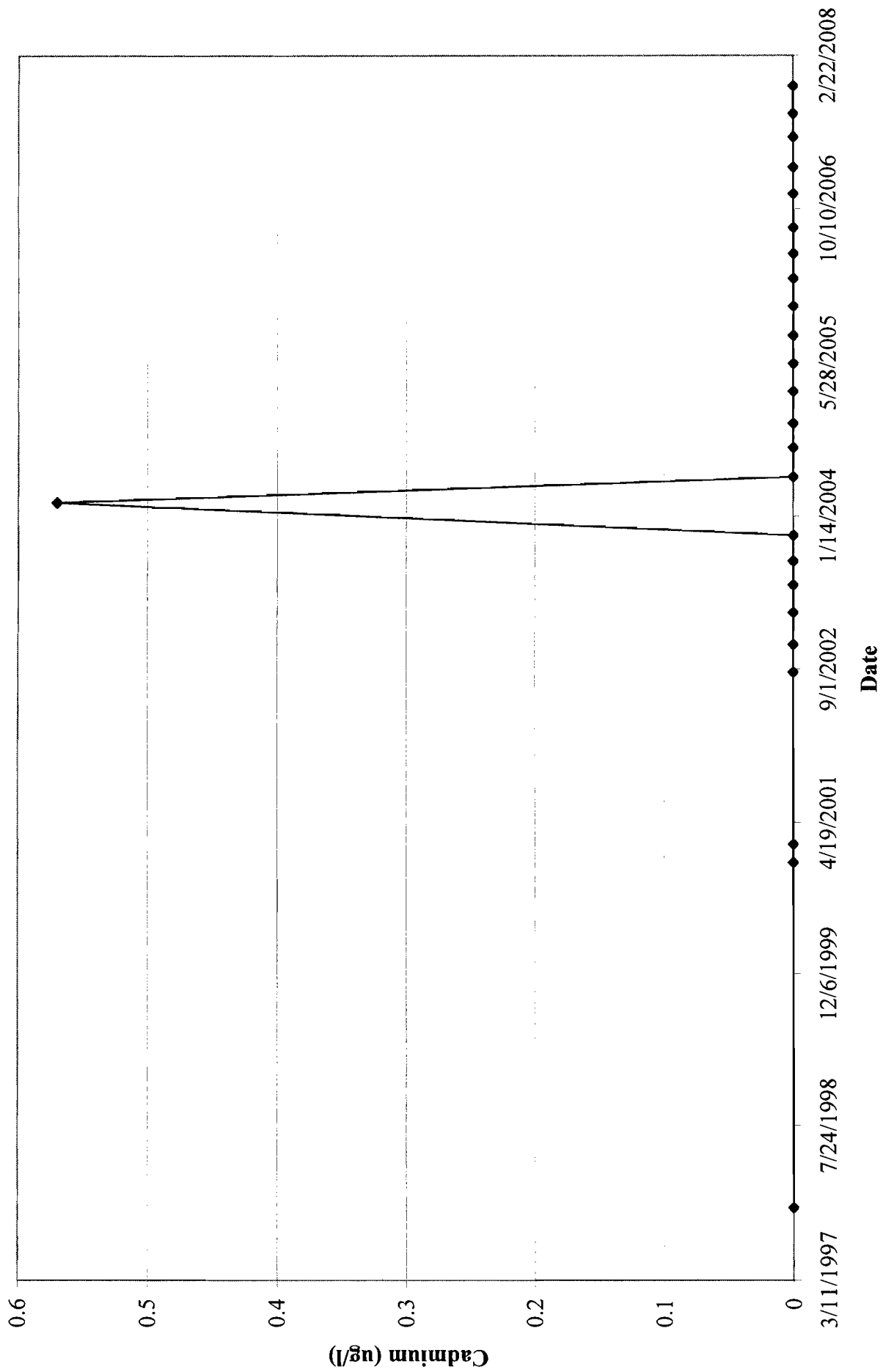
POTASSIUM IN MW-12I



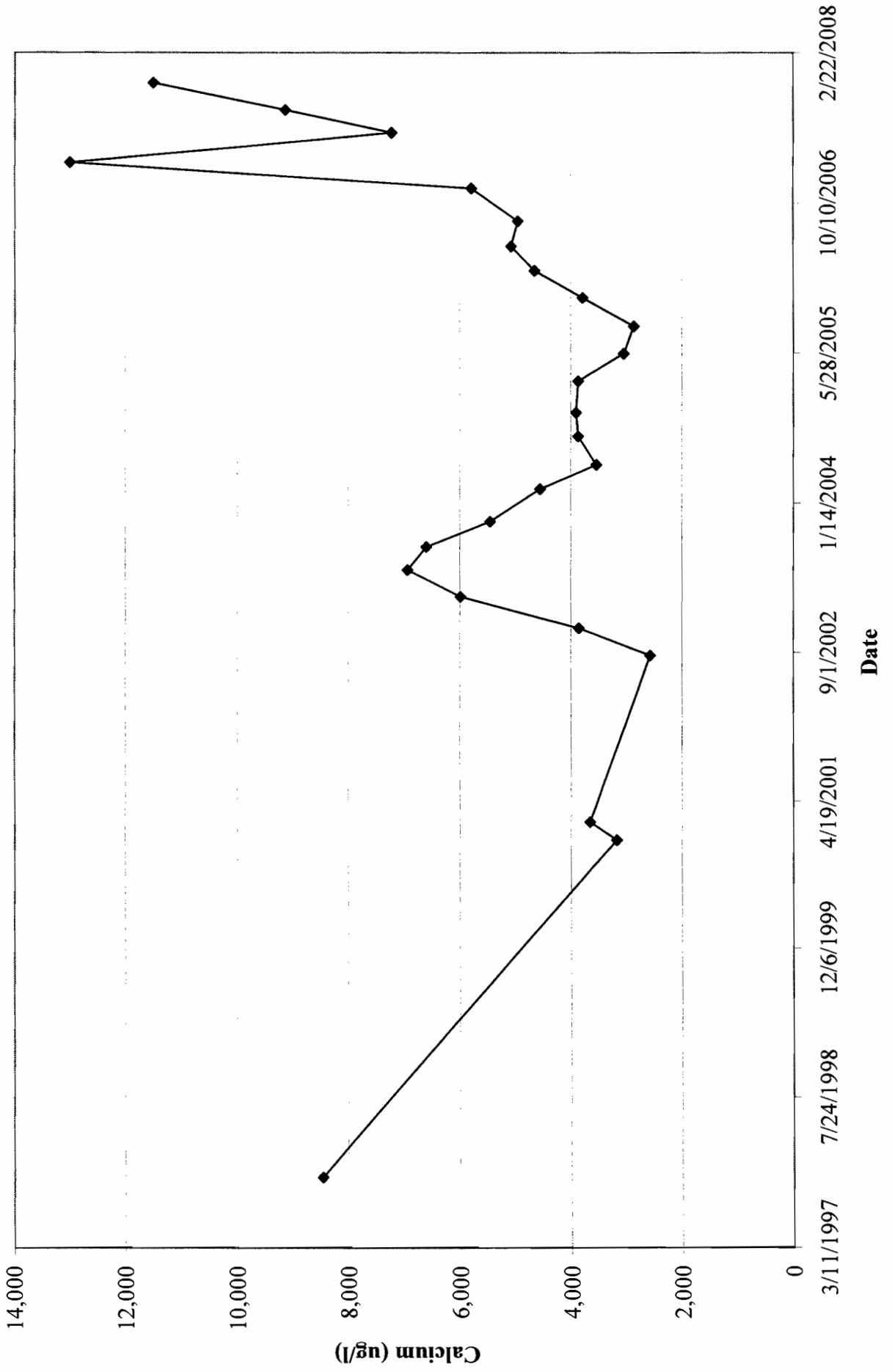
SODIUM IN MW-12I



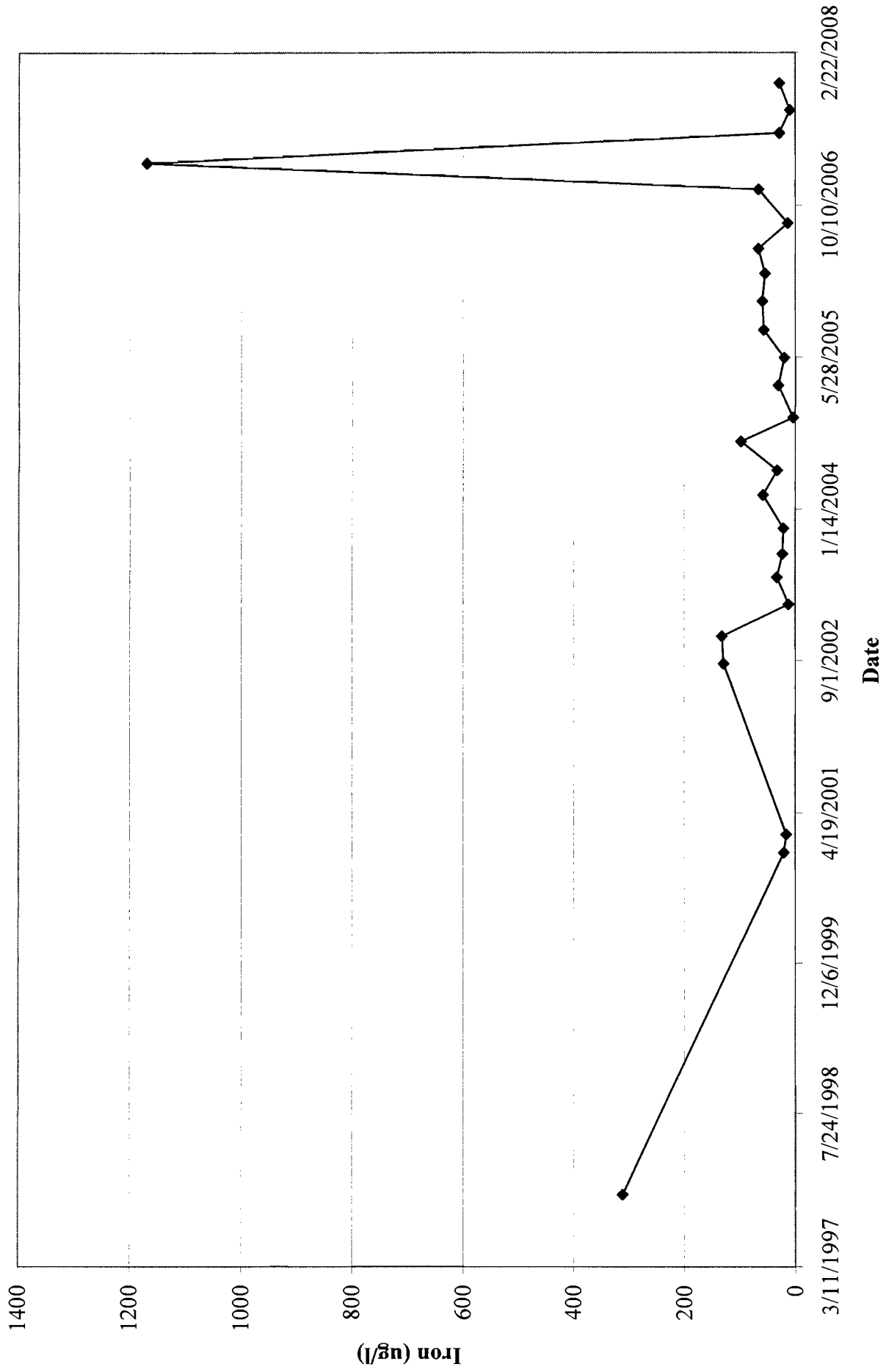
CADMIUM IN MW-12D



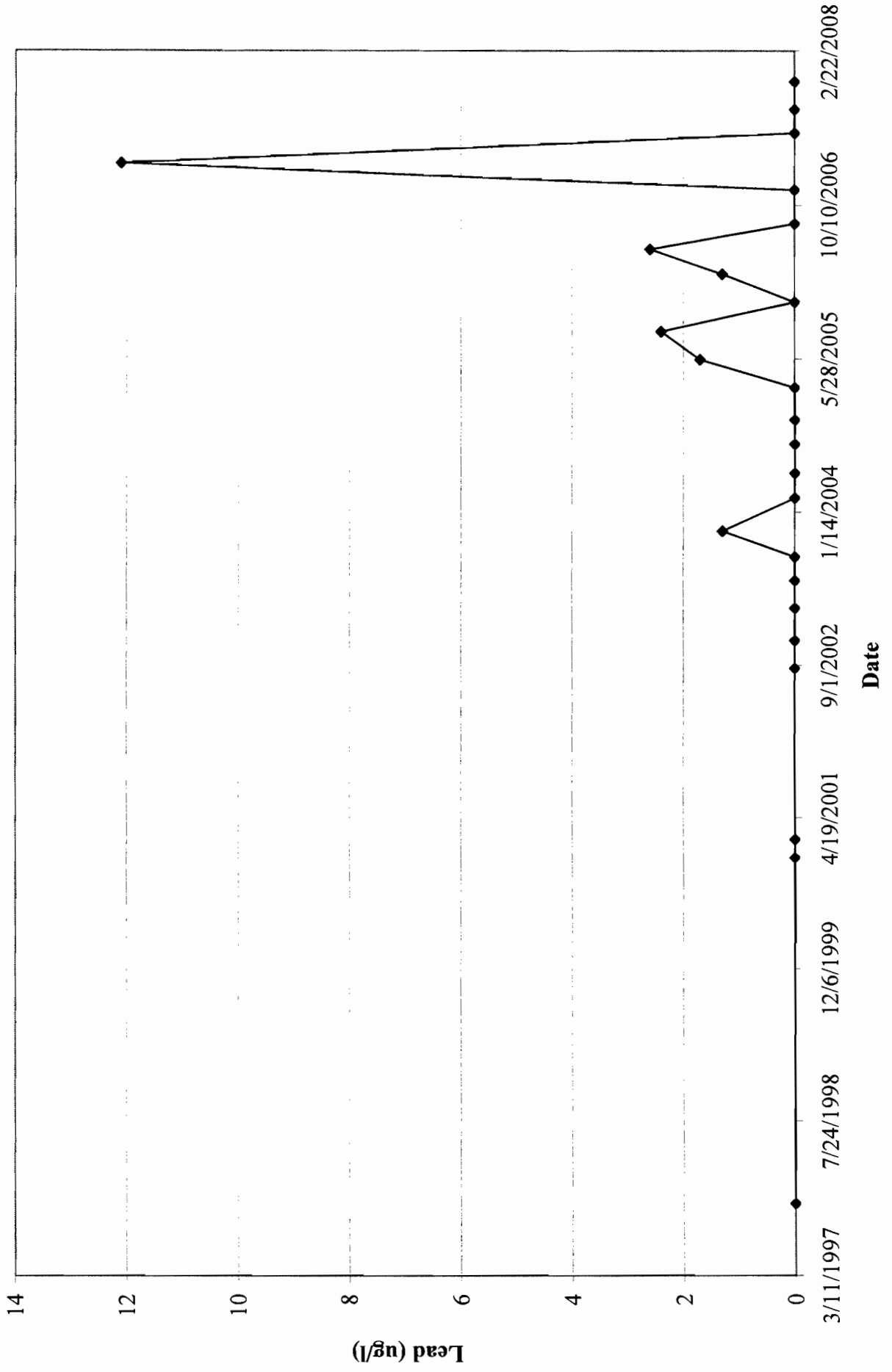
CALCIUM IN MW-12D



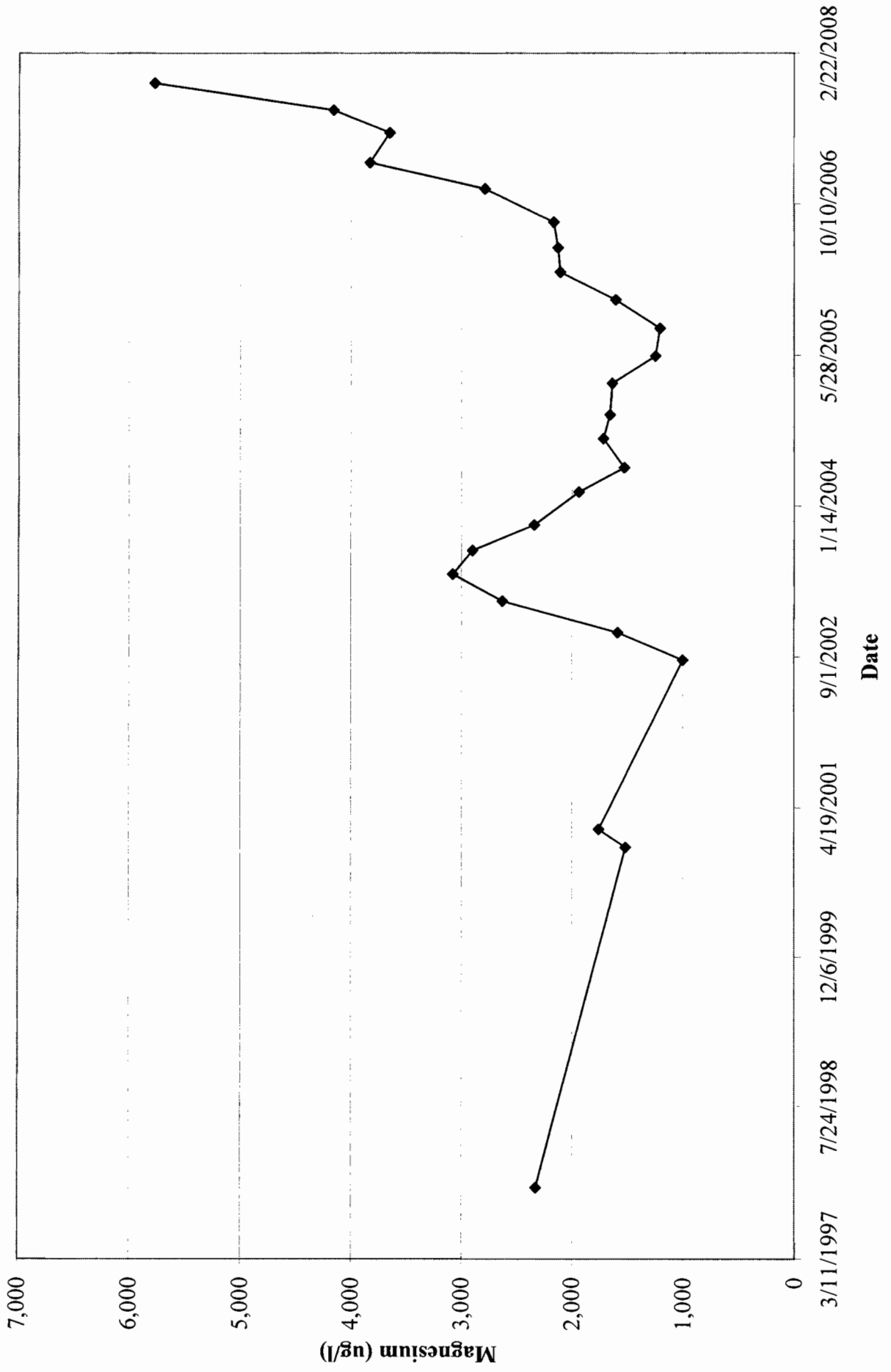
IRON IN MW-12D



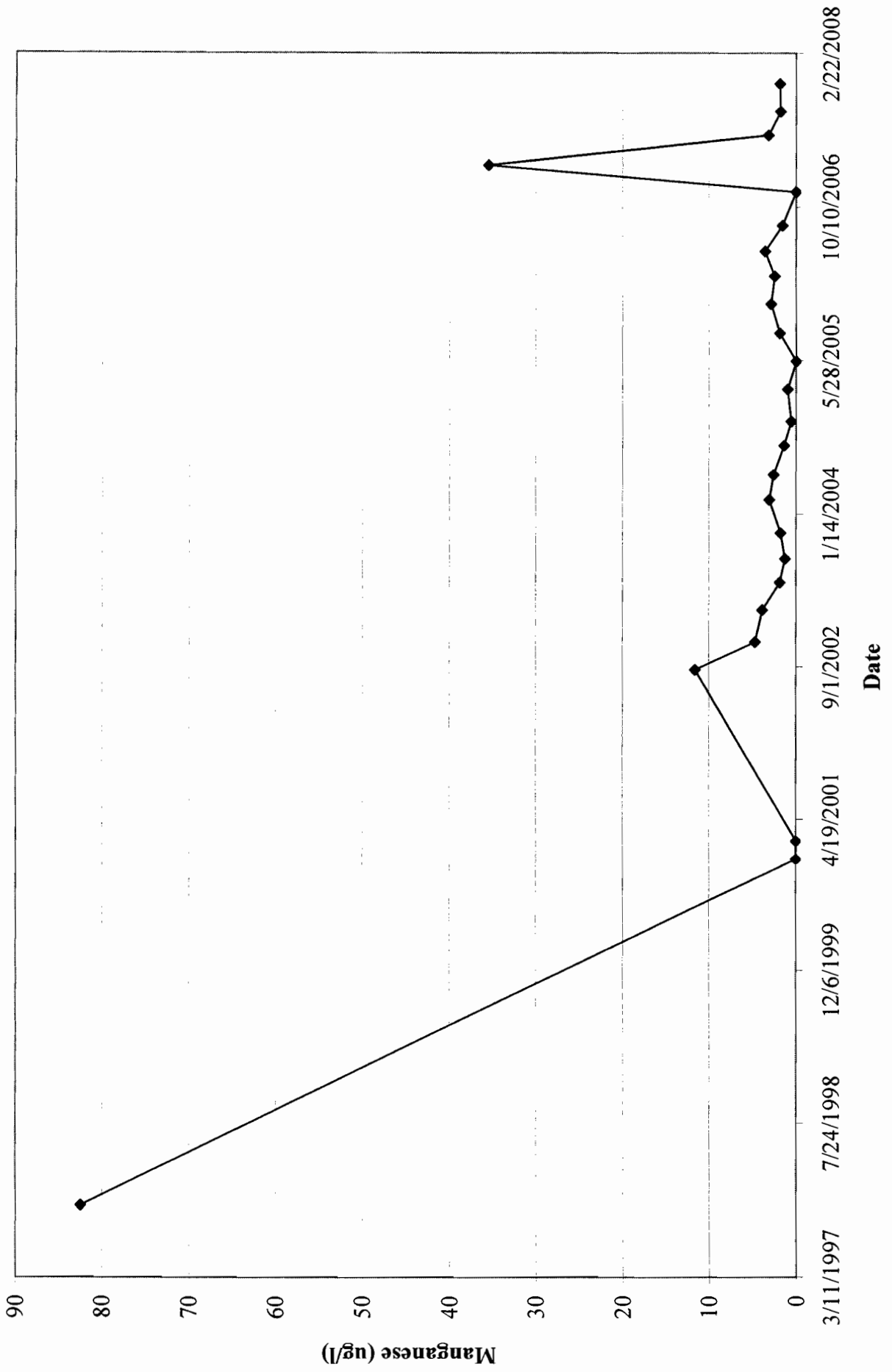
LEAD IN MW-12D



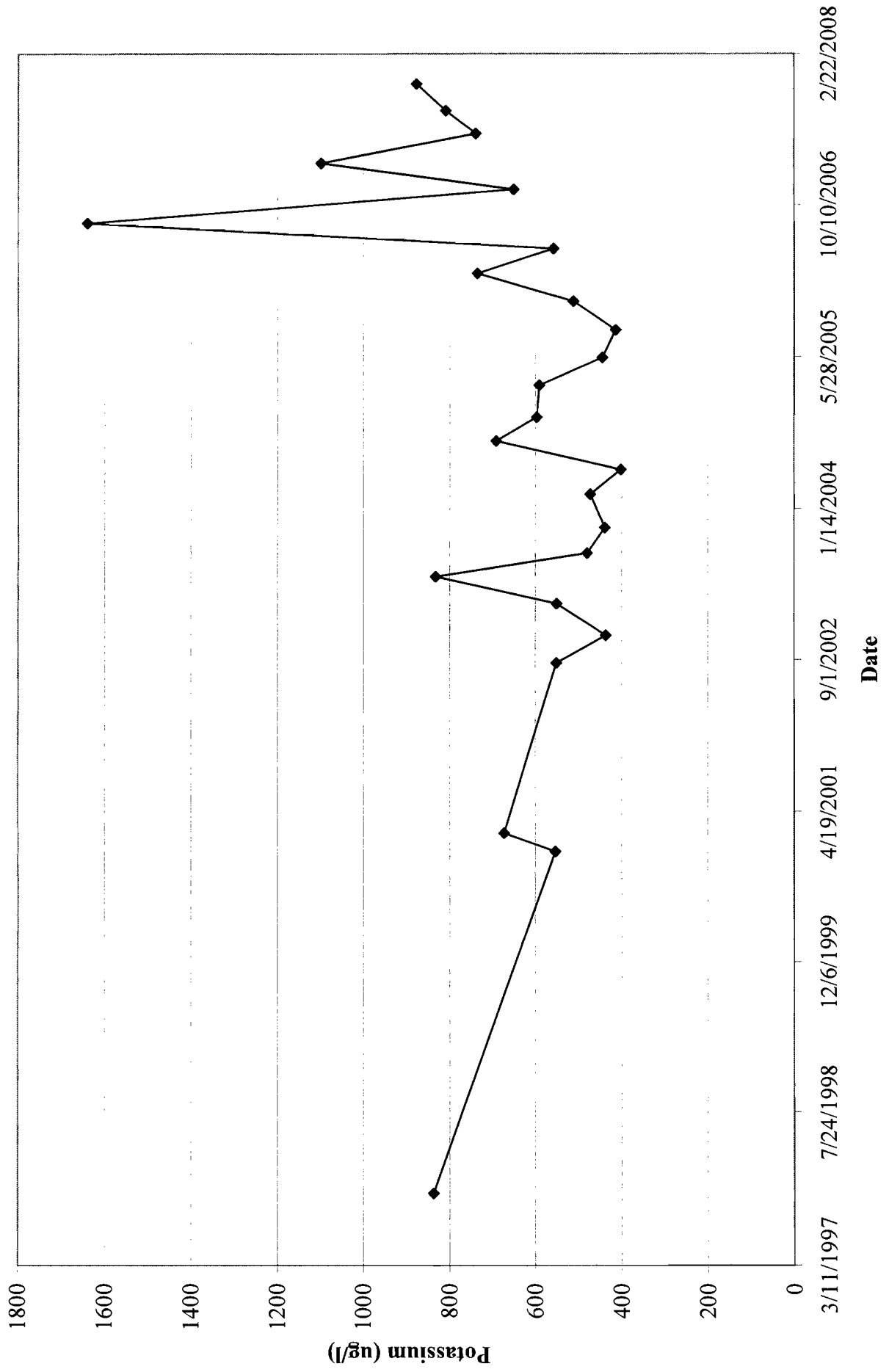
MAGNESIUM IN MW-12D



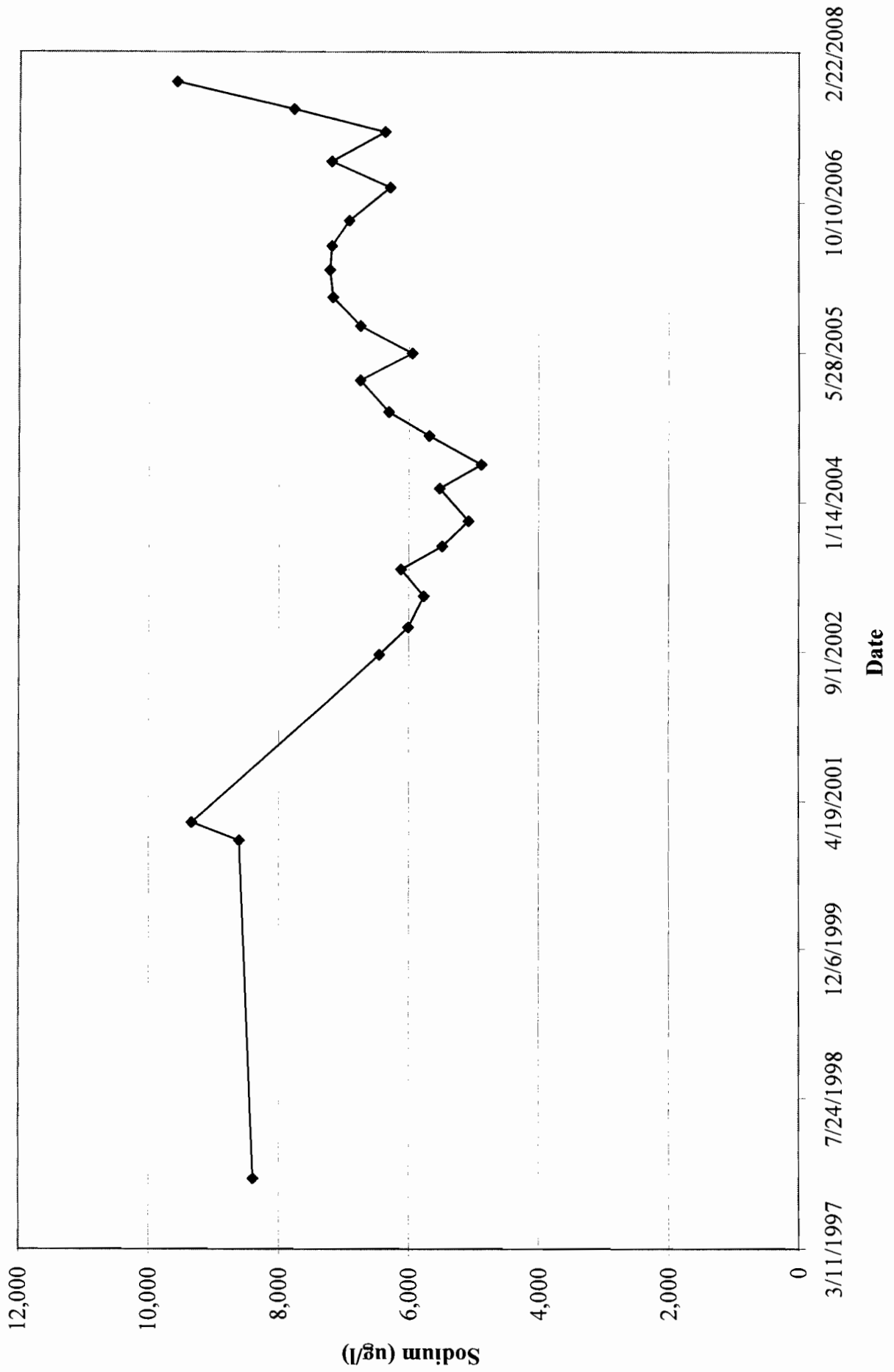
MANGANESE IN MW-12D



POTASSIUM IN MW-12D



SODIUM IN MW-12D

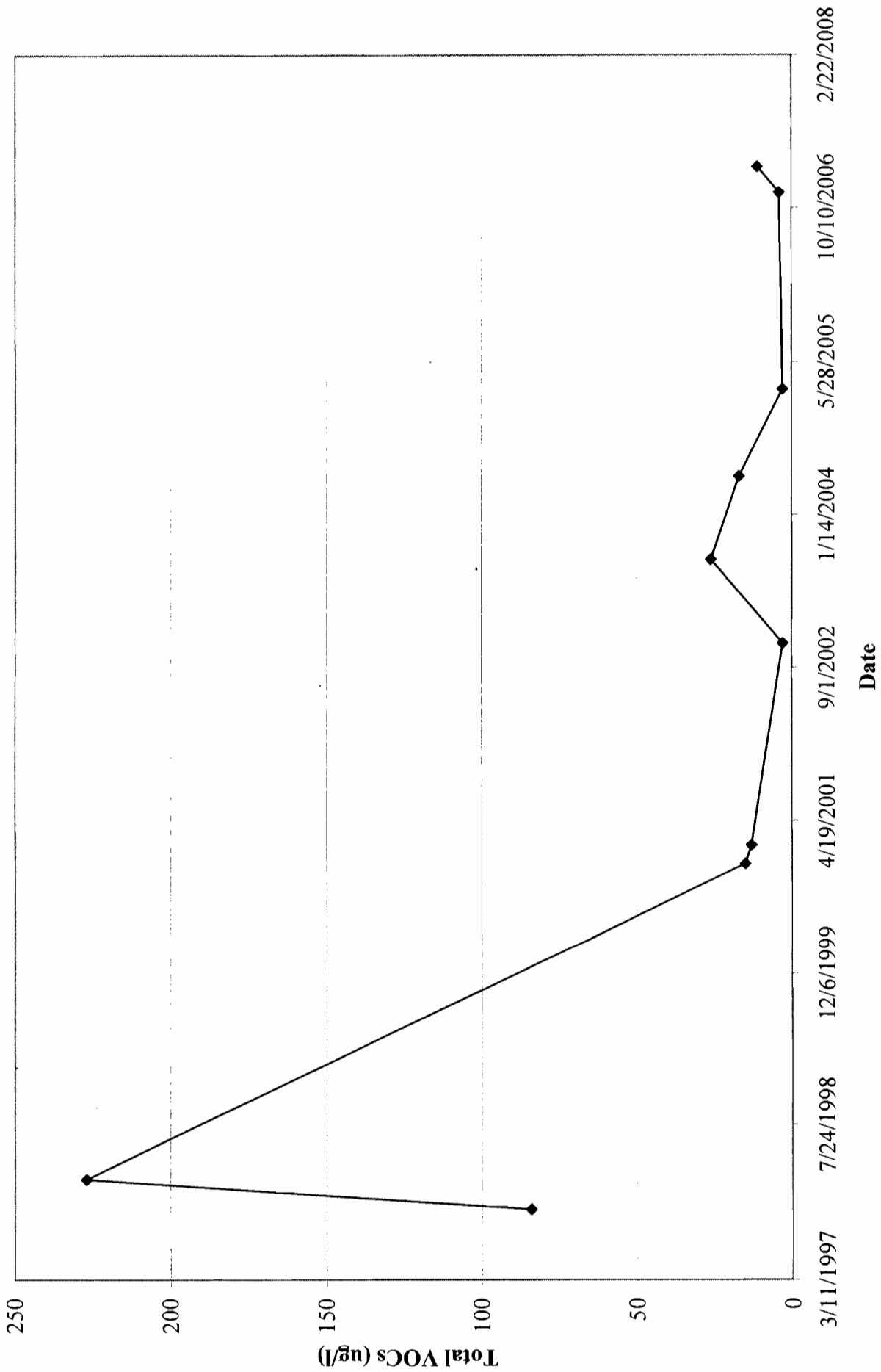


APPENDIX C-3

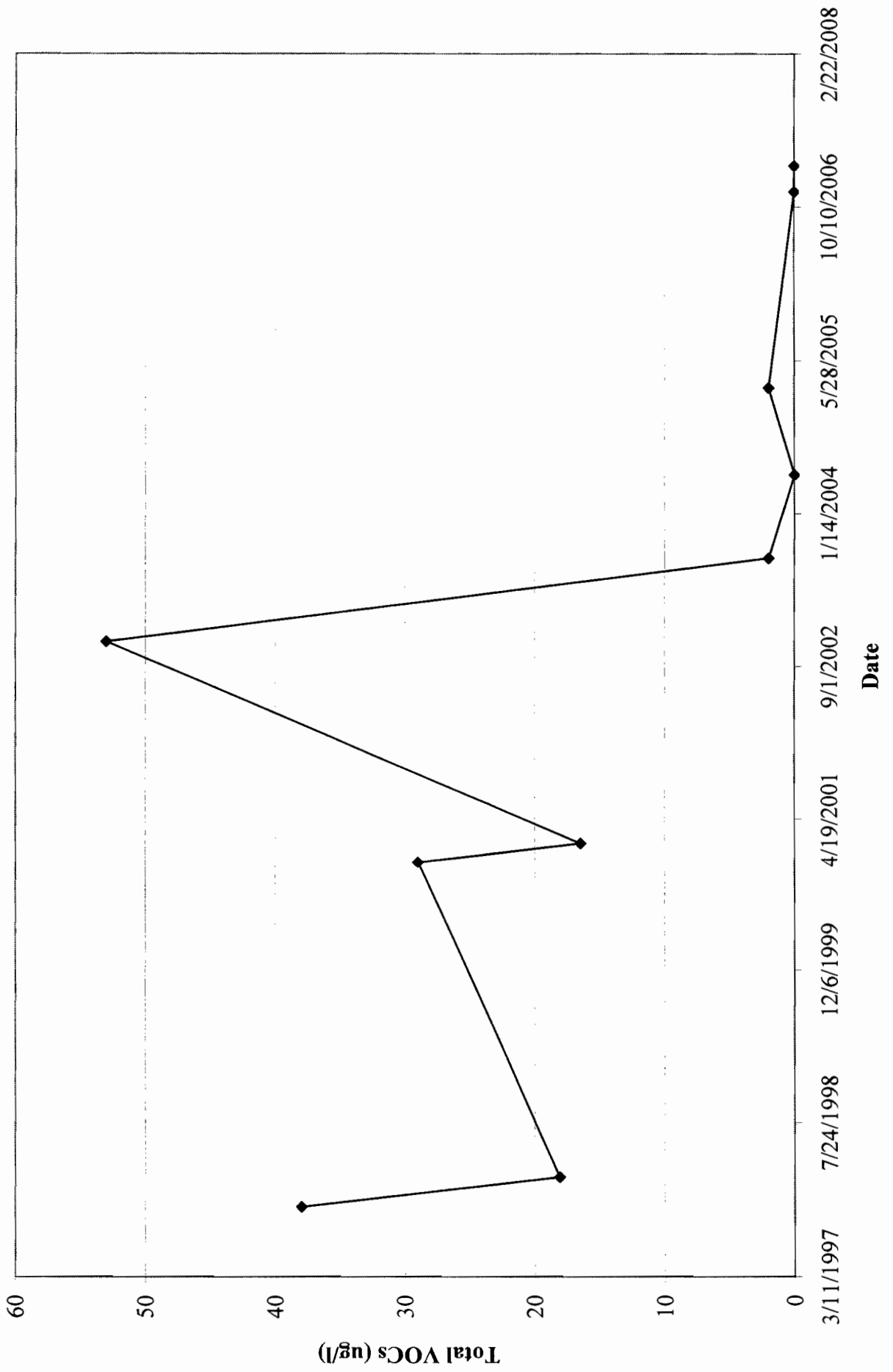
Volatile Organic Compounds

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

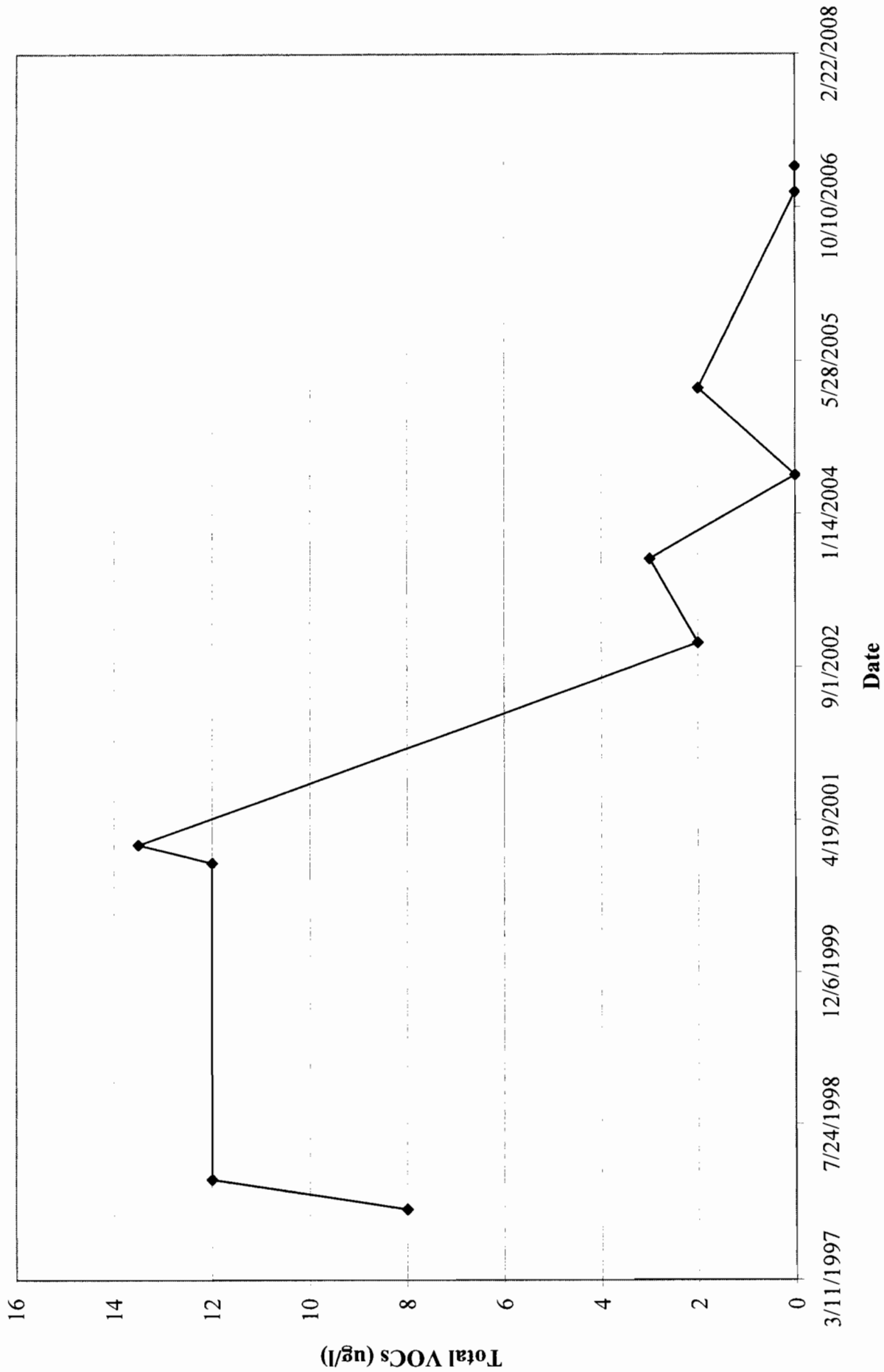
TOTAL VOCs IN MW-01D



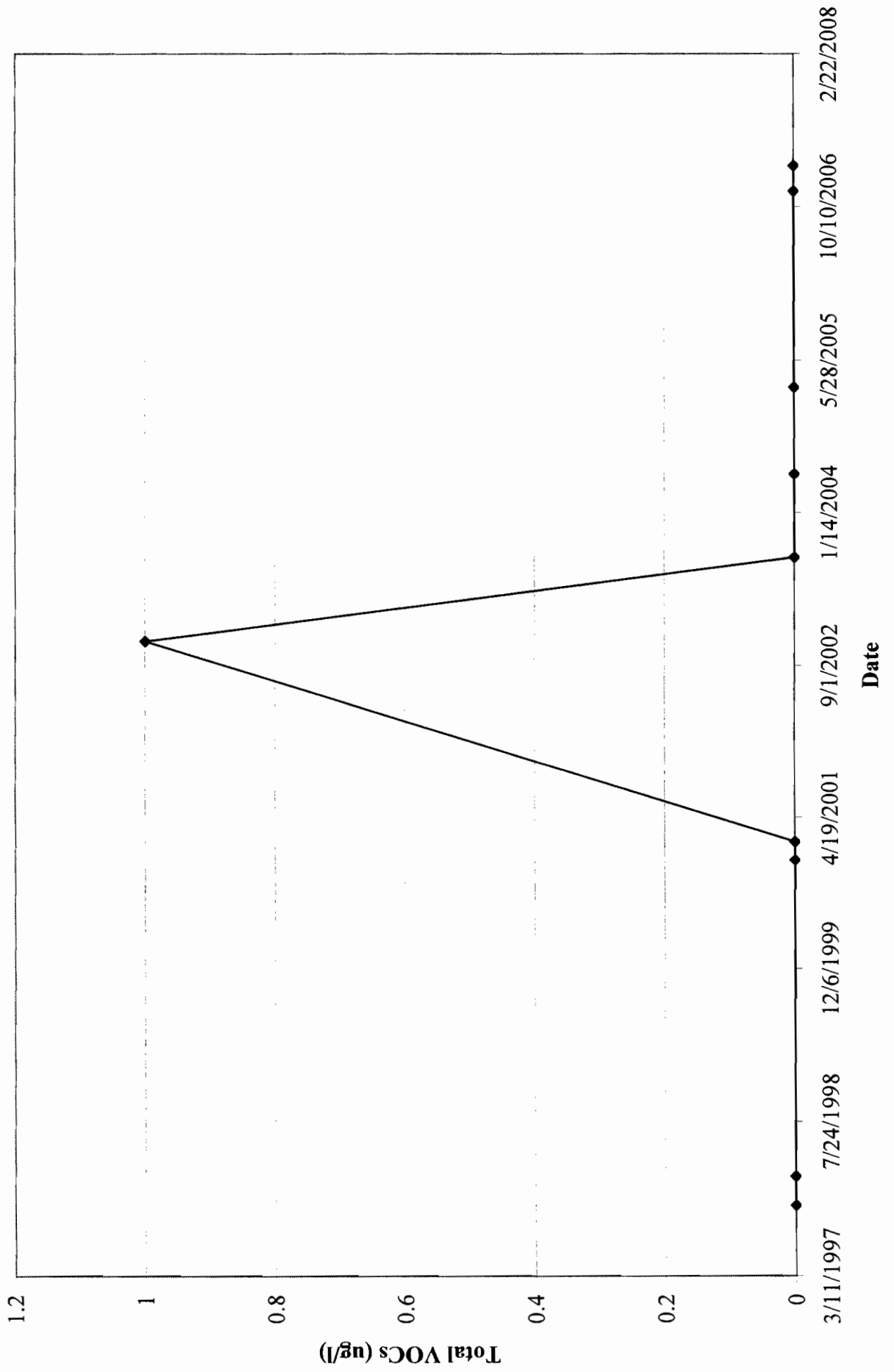
TOTAL VOCs IN MW-011



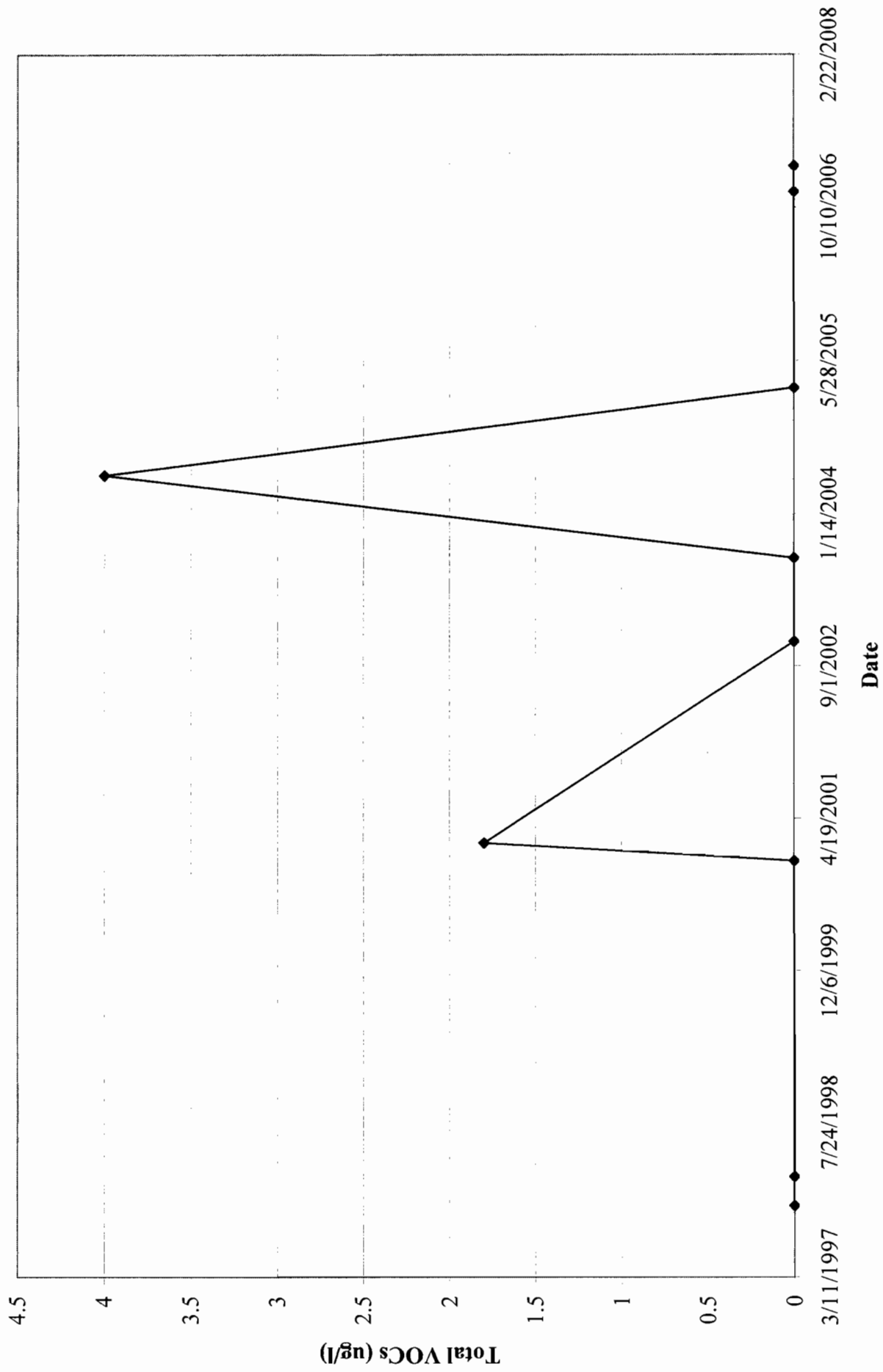
TOTAL VOCs IN MW-01S



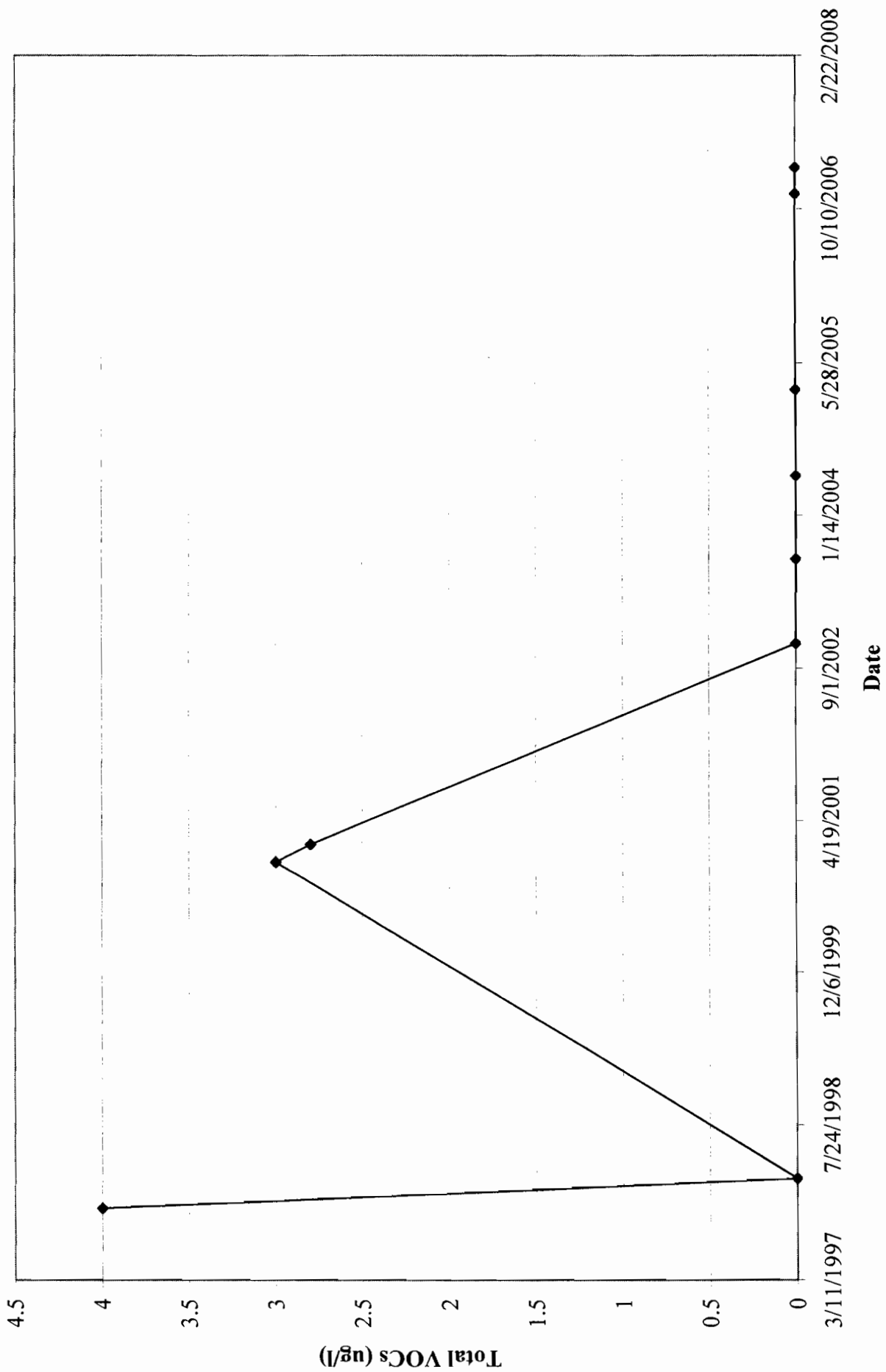
TOTAL VOCs IN MW-02D



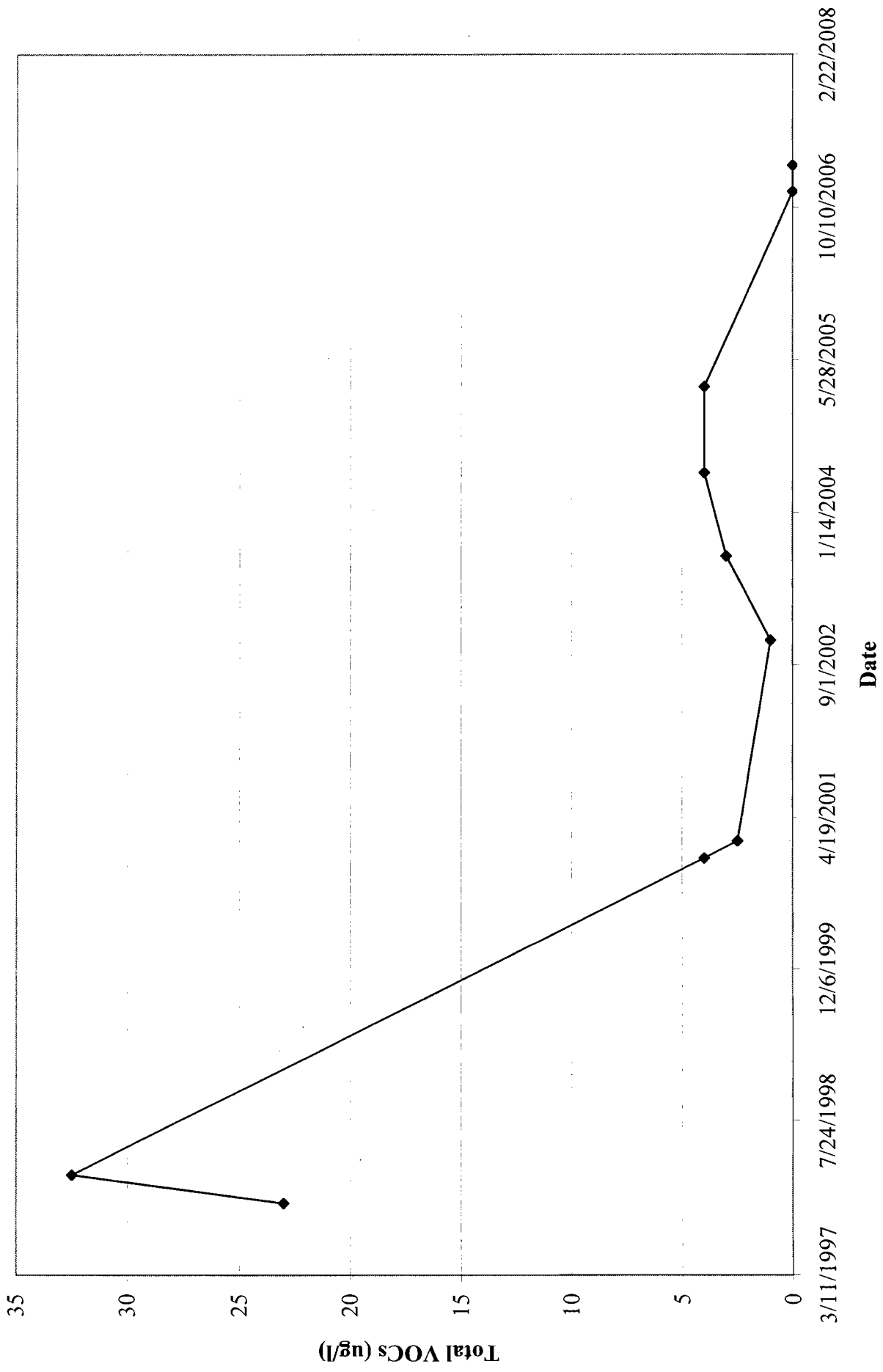
TOTAL VOCs IN MW-02I



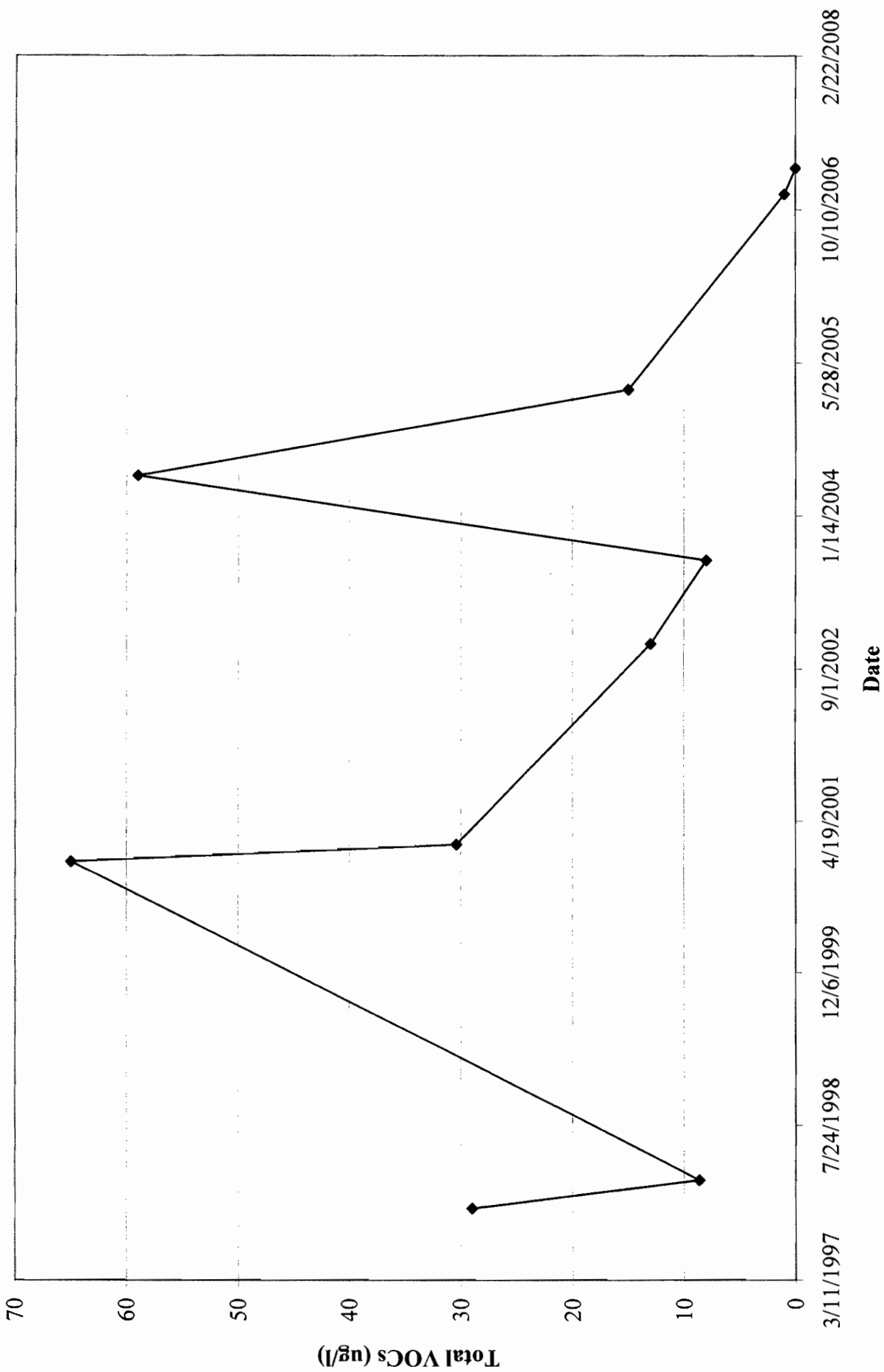
TOTAL VOCs IN MW-03S



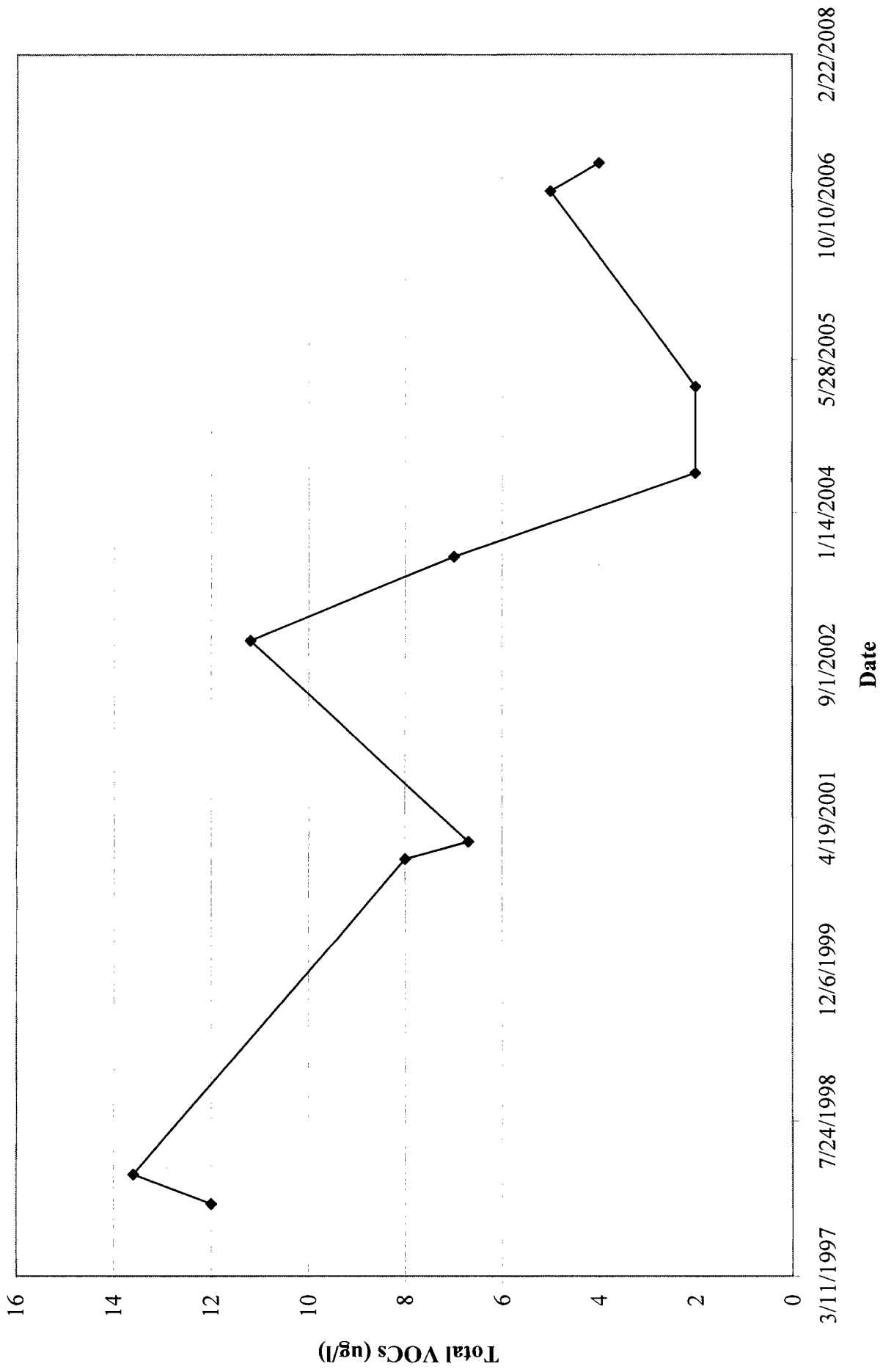
TOTAL VOCs IN MW-04D



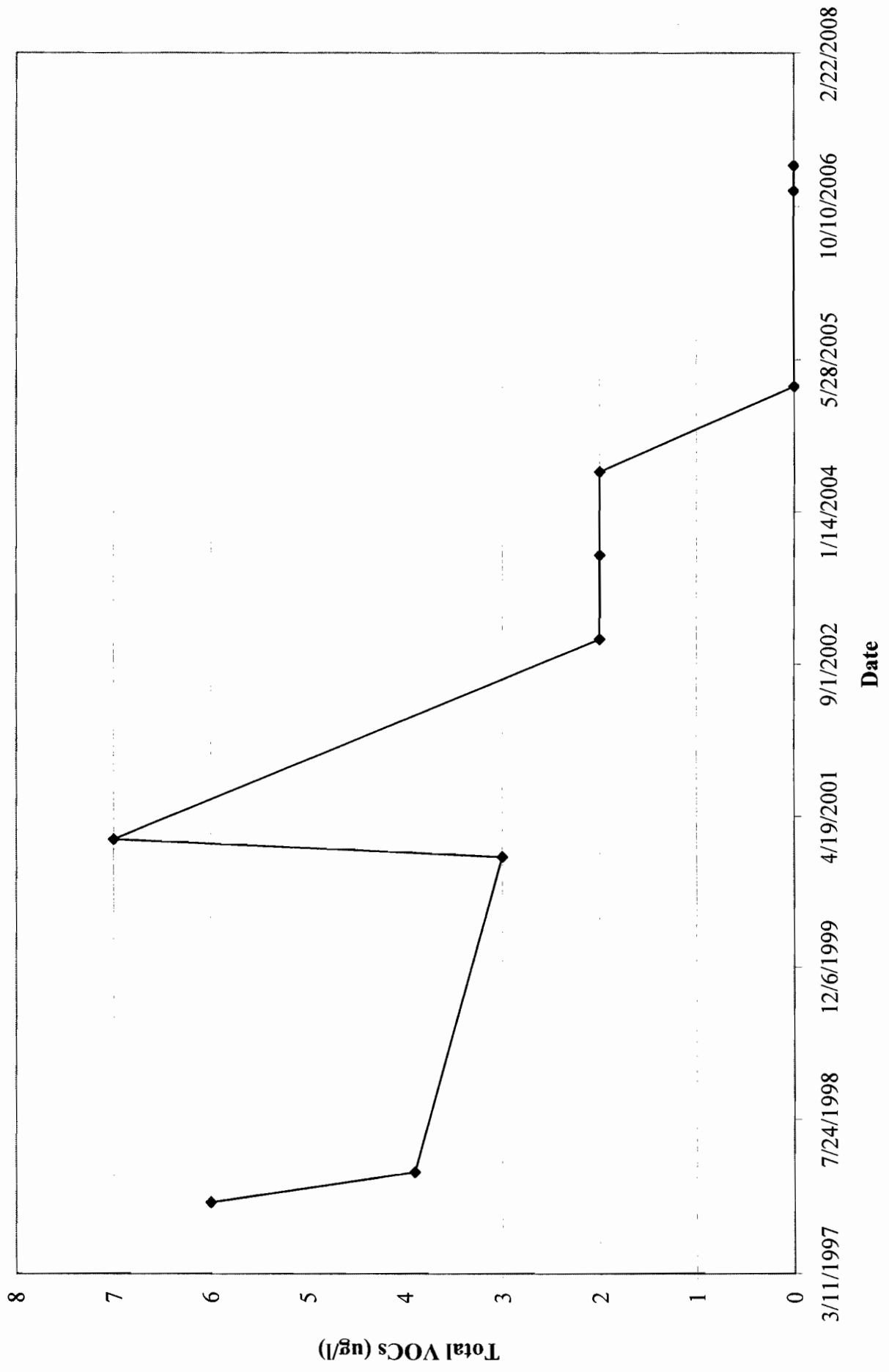
TOTAL VOCs IN MW-04I



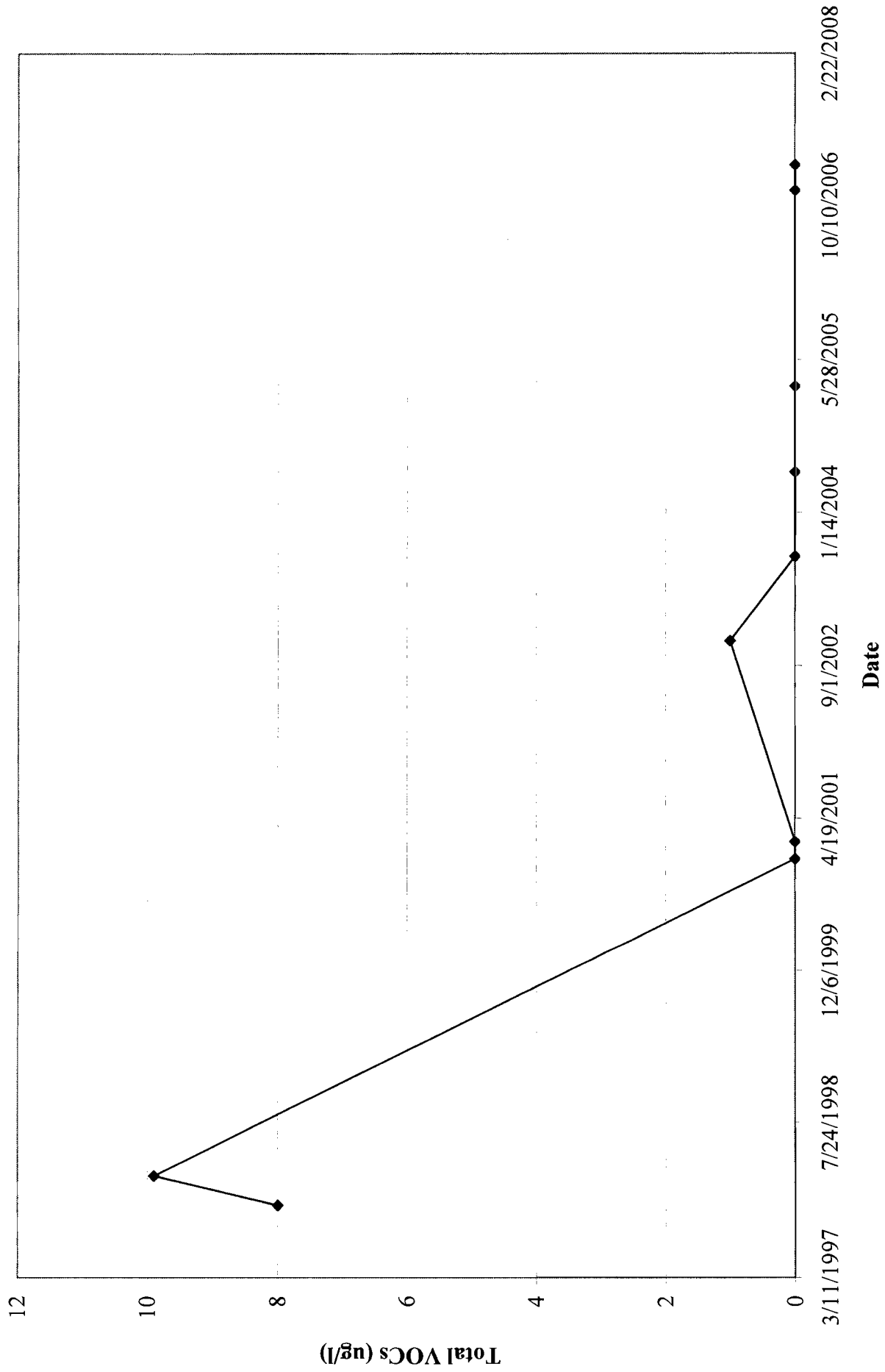
TOTAL VOCs IN MW-04S



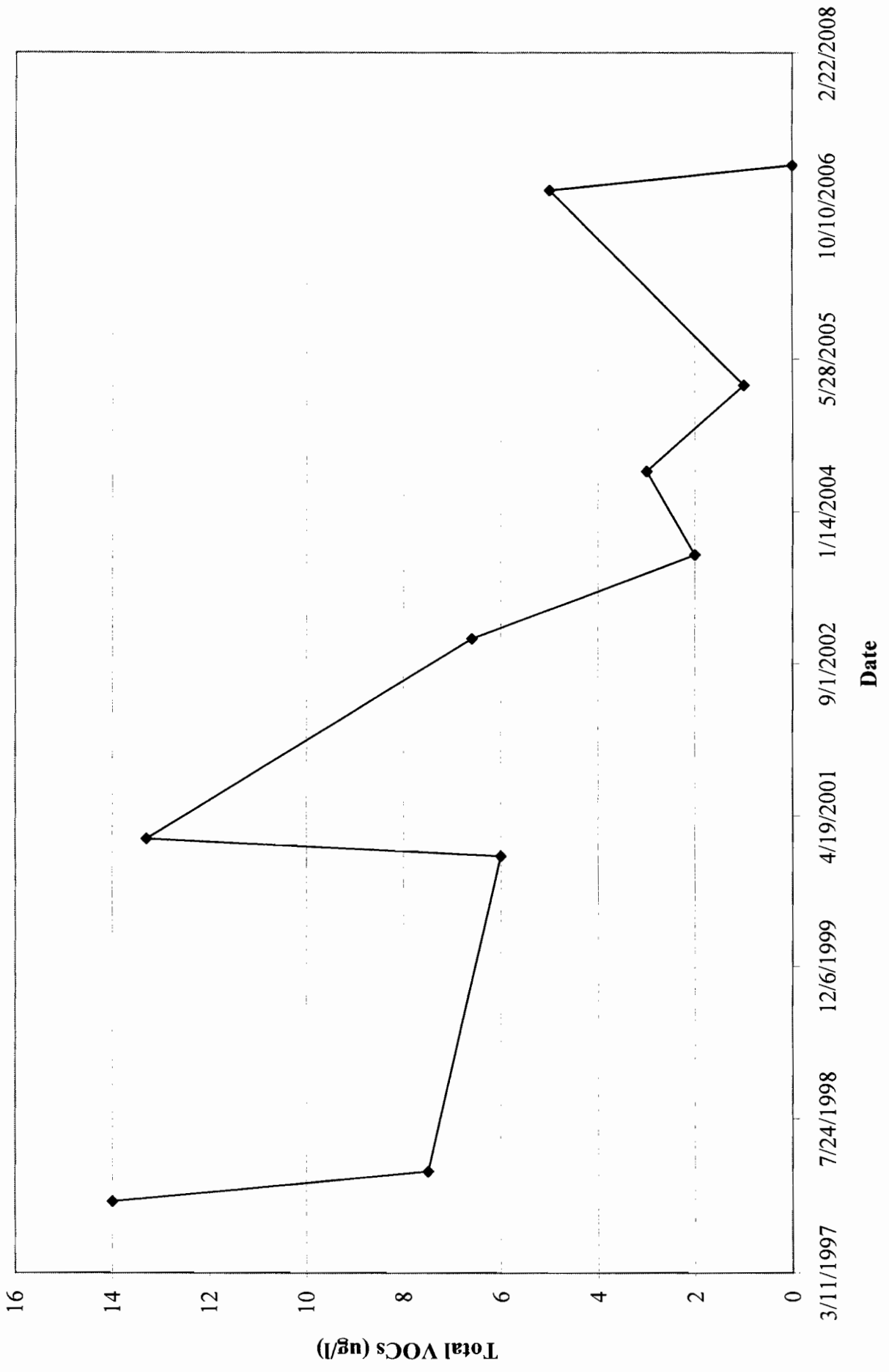
TOTAL VOCs IN MW-05D



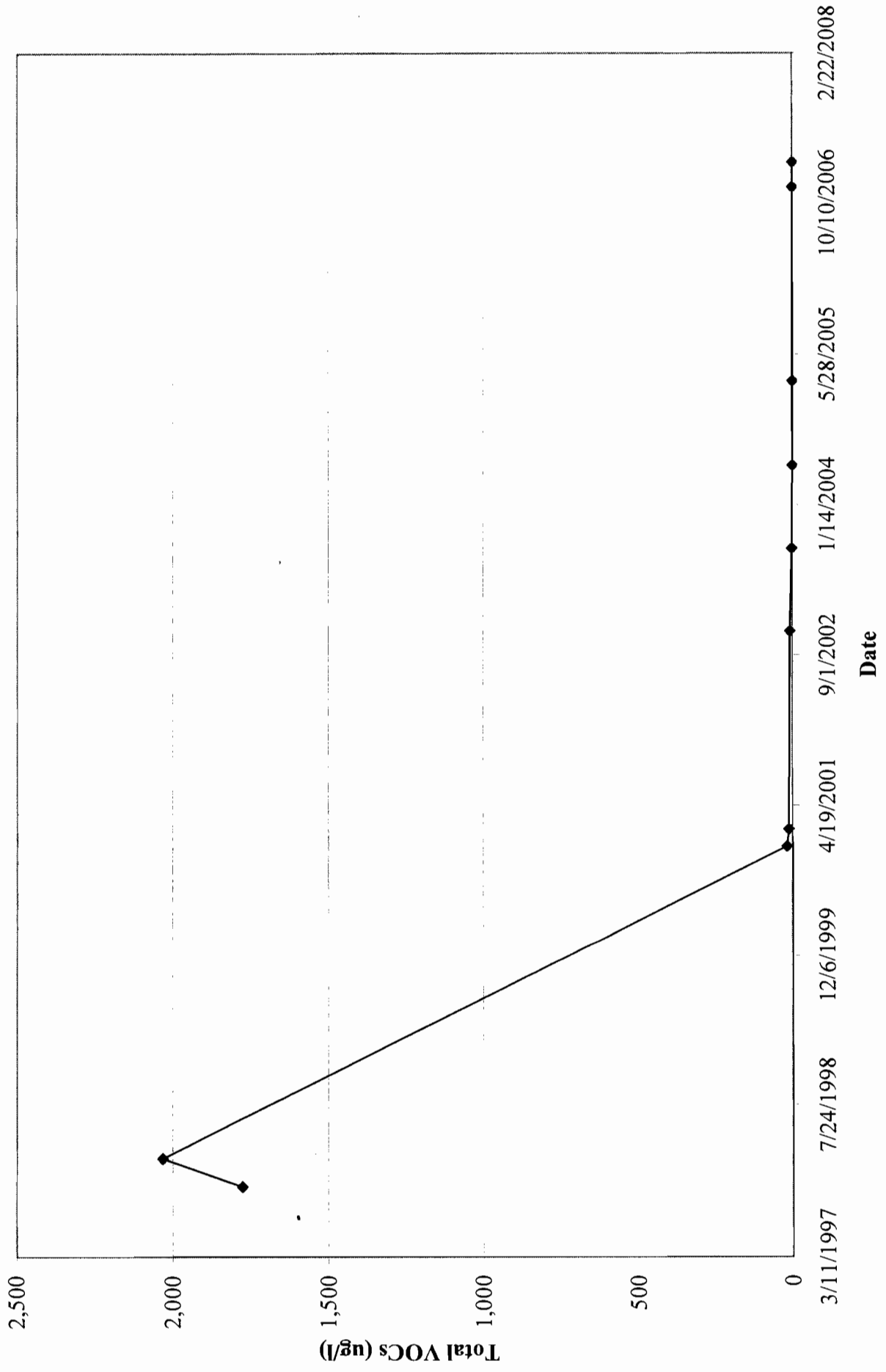
TOTAL VOCs IN MW-05I



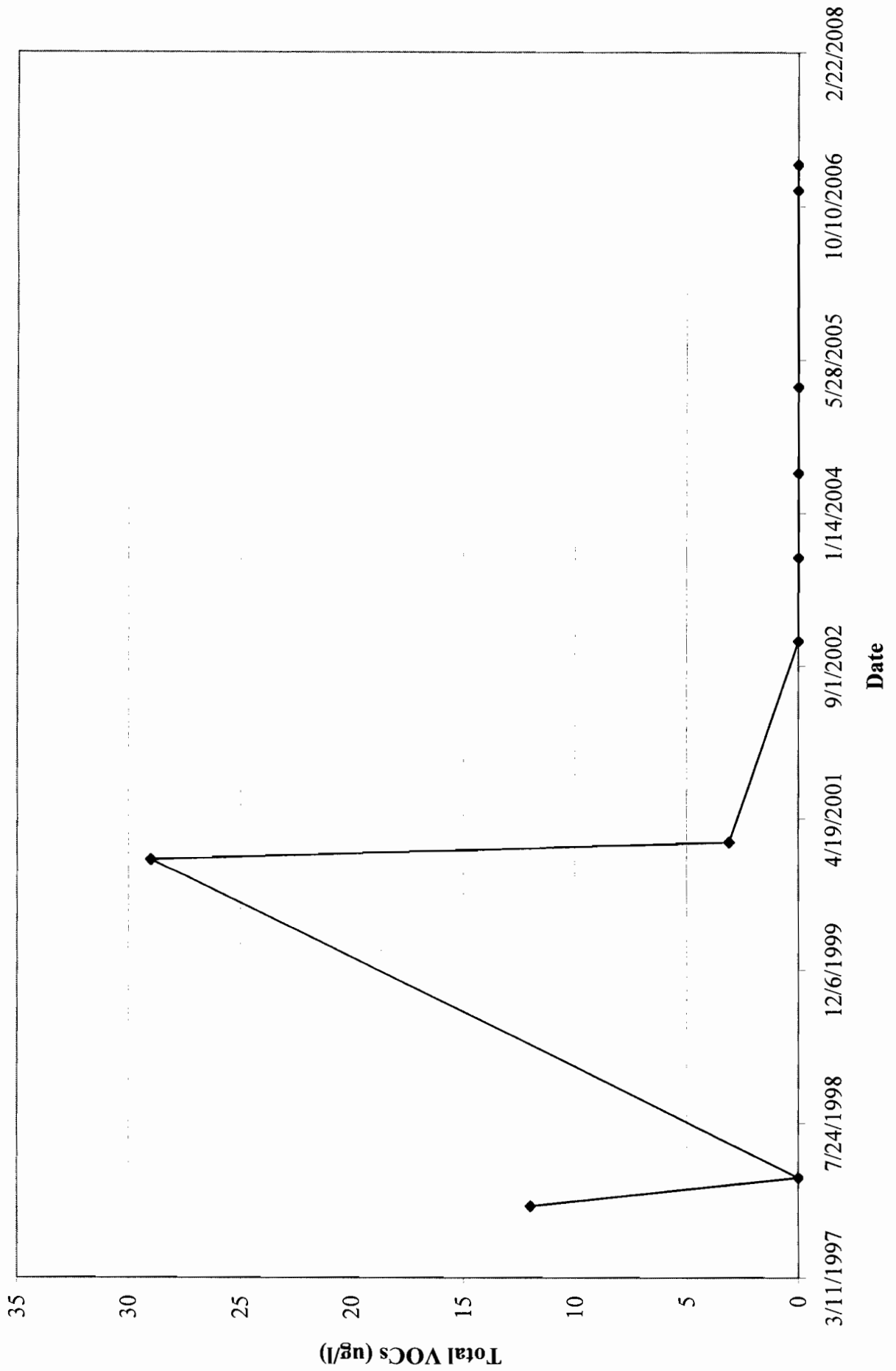
TOTAL VOCs IN MW-05S



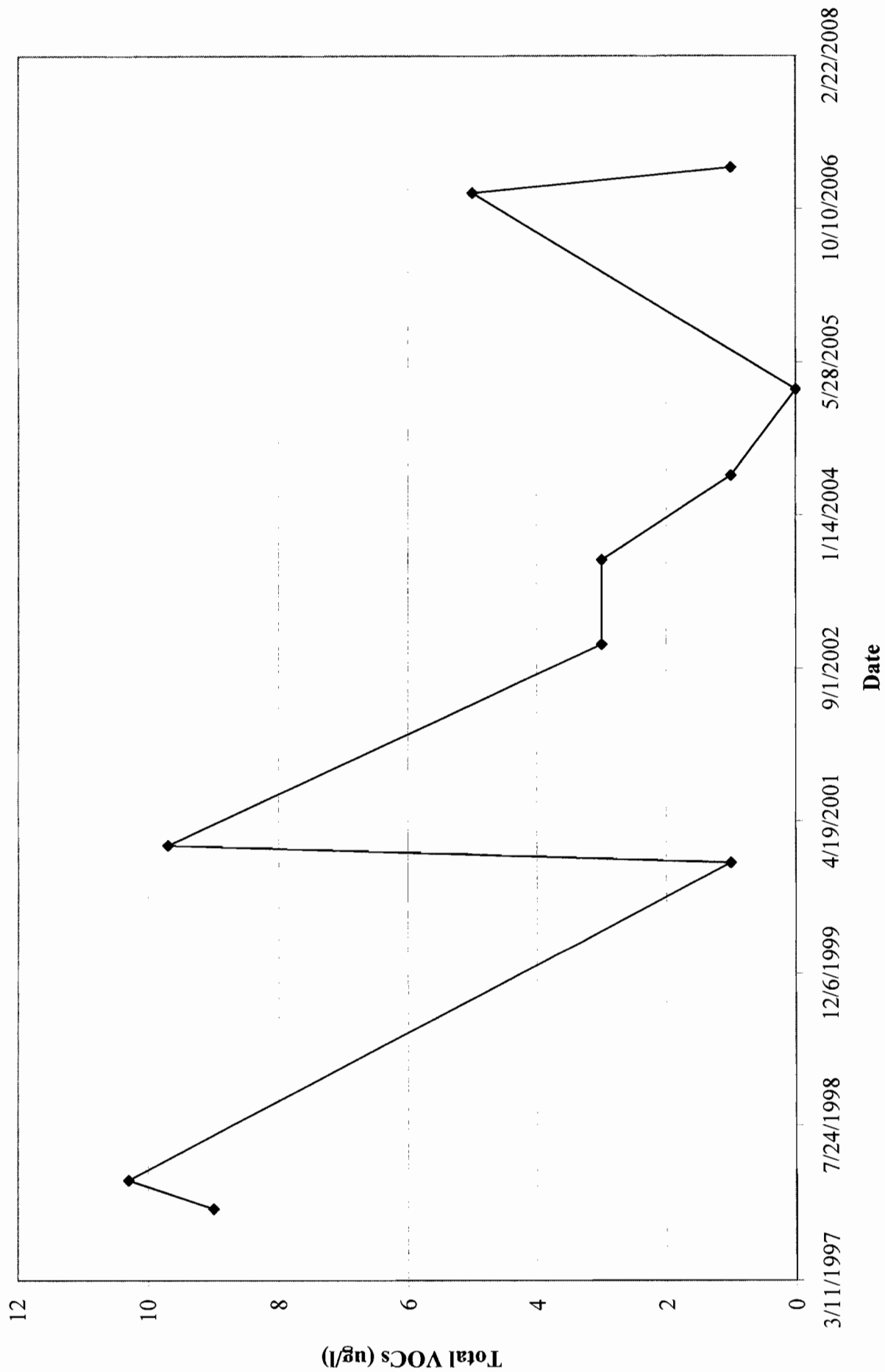
TOTAL VOCs IN MW-06D



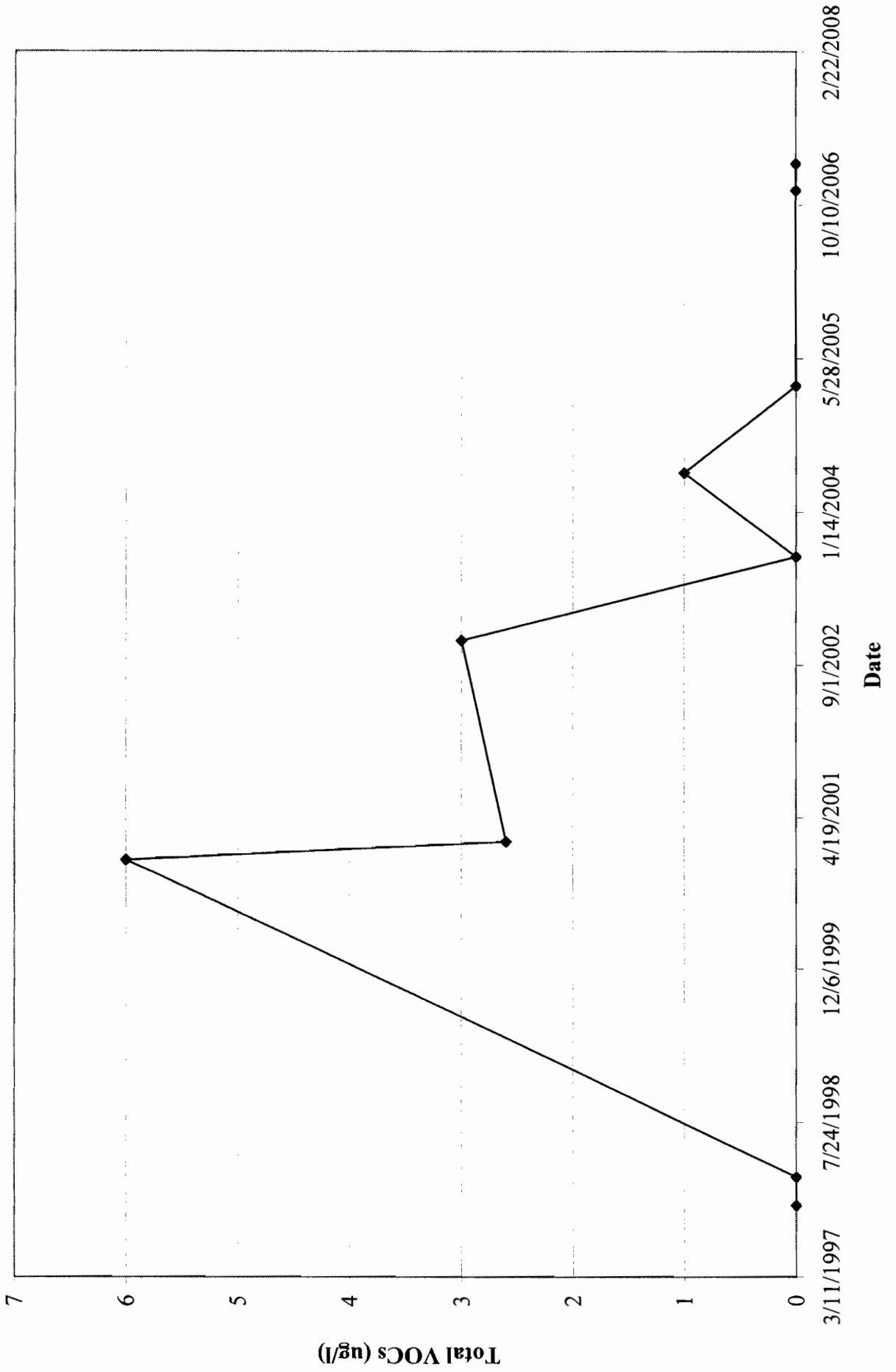
TOTAL VOCs IN MW-06I



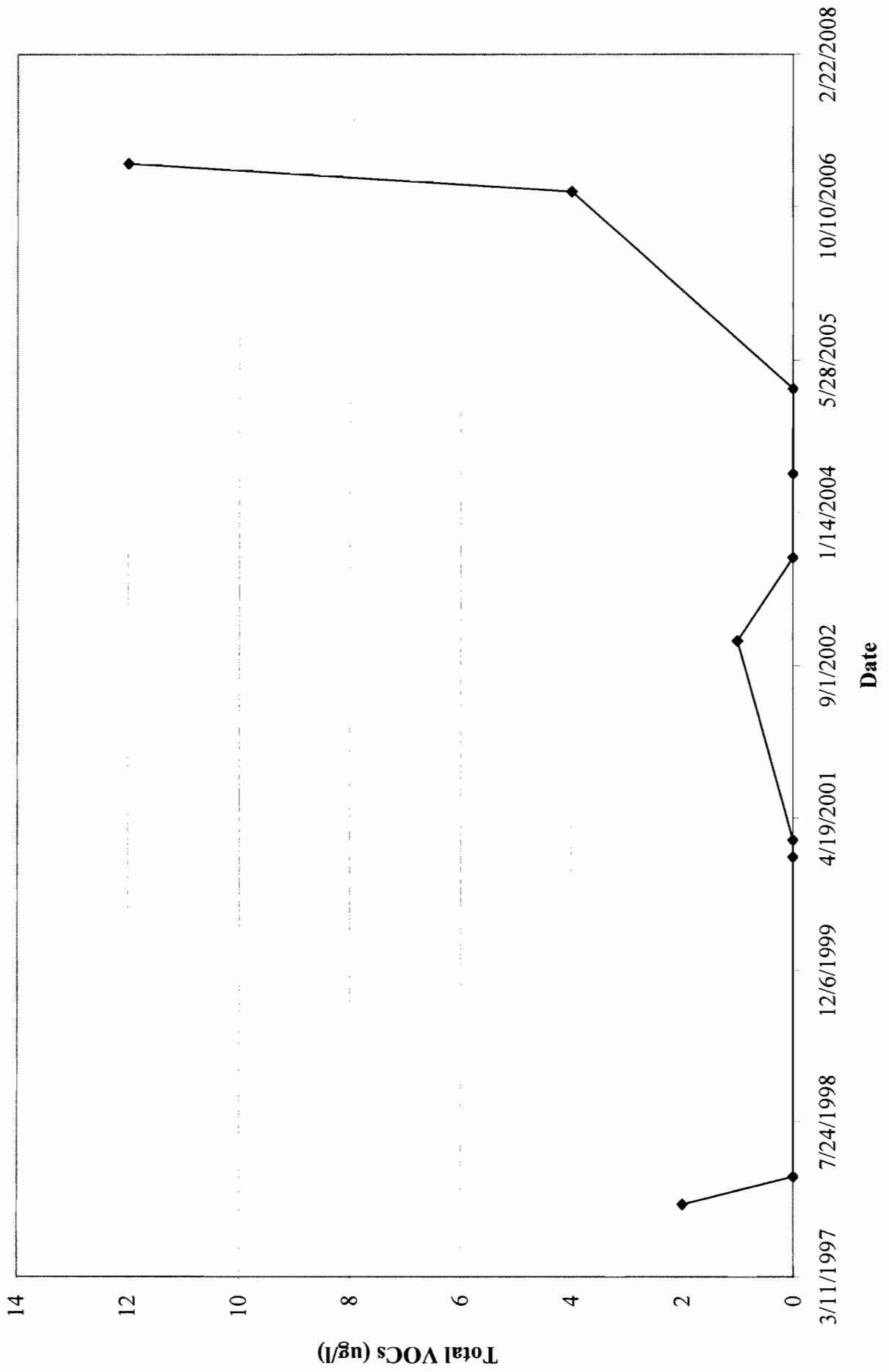
TOTAL VOCs IN MW-06S



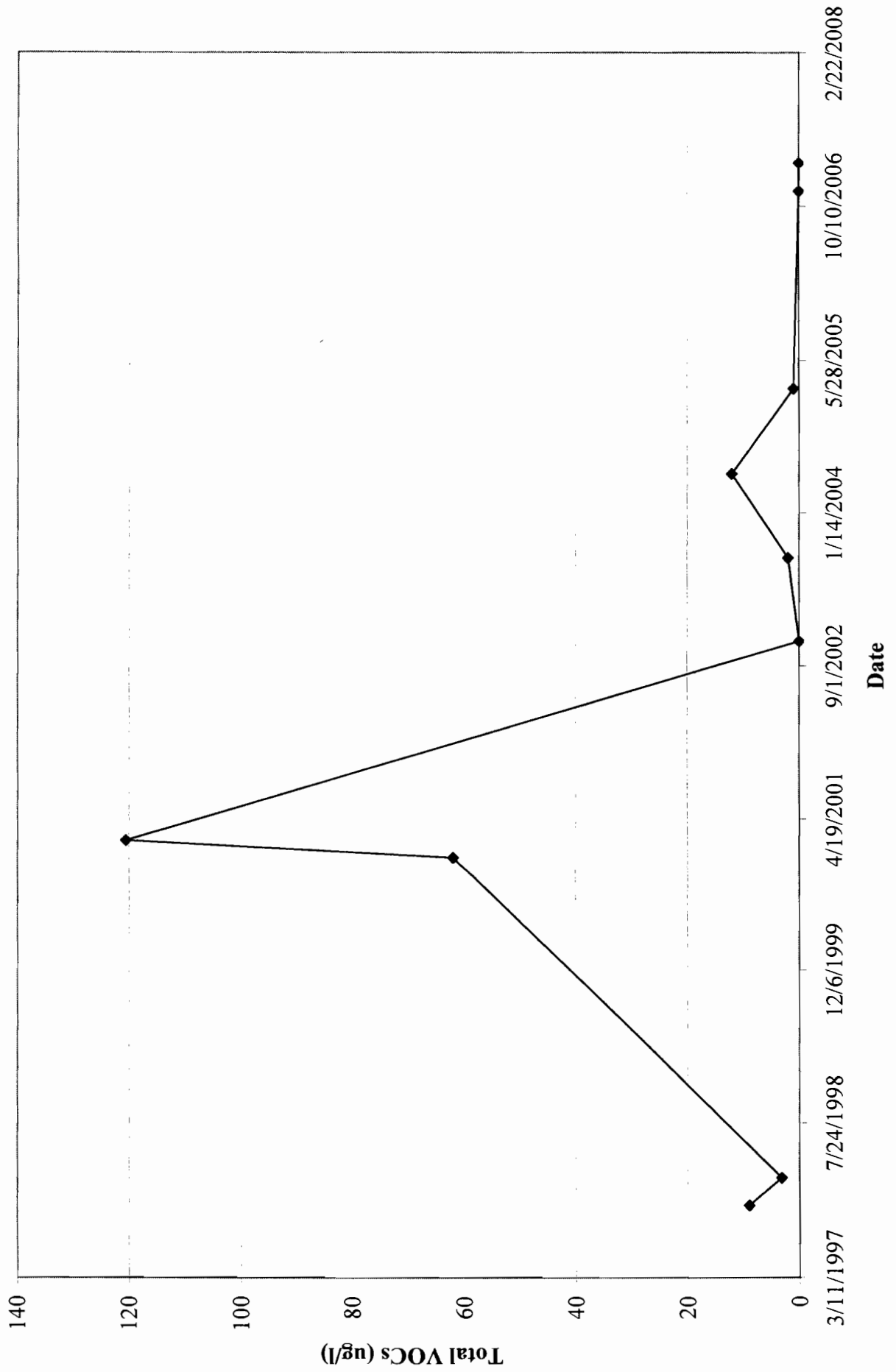
TOTAL VOCs IN MW-07I



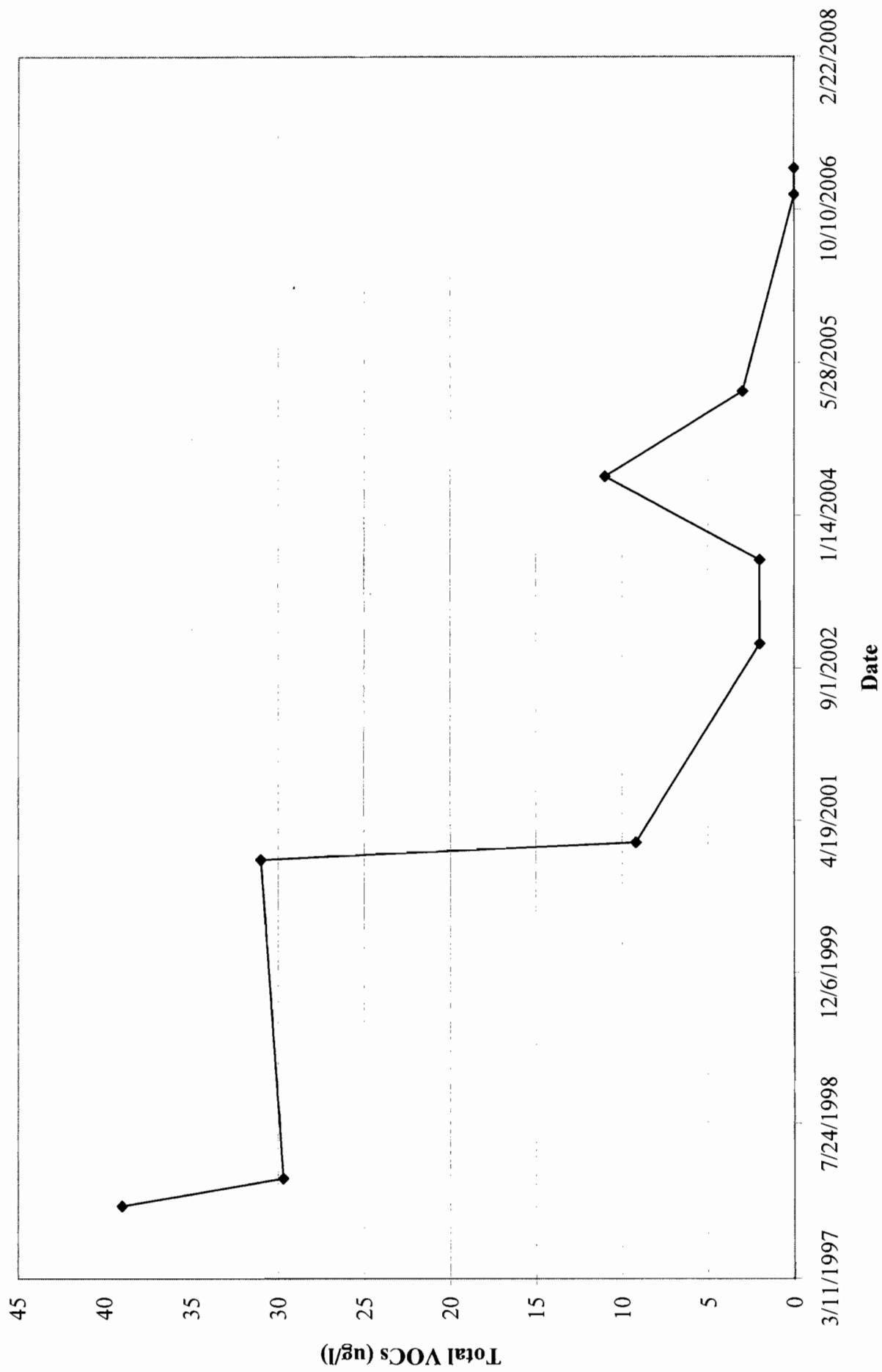
TOTAL VOCs IN MW-11D



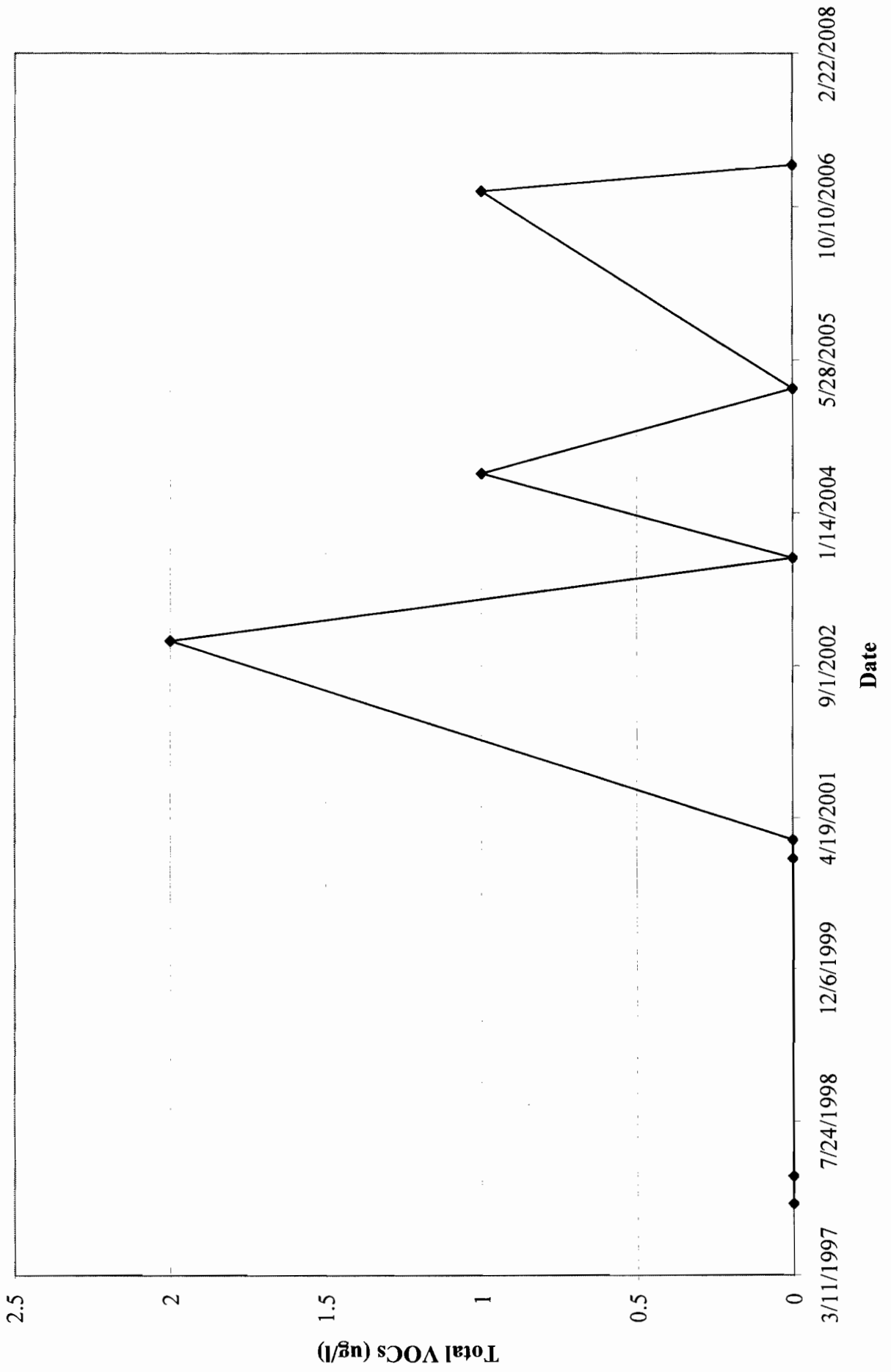
TOTAL VOCs IN MW-11I



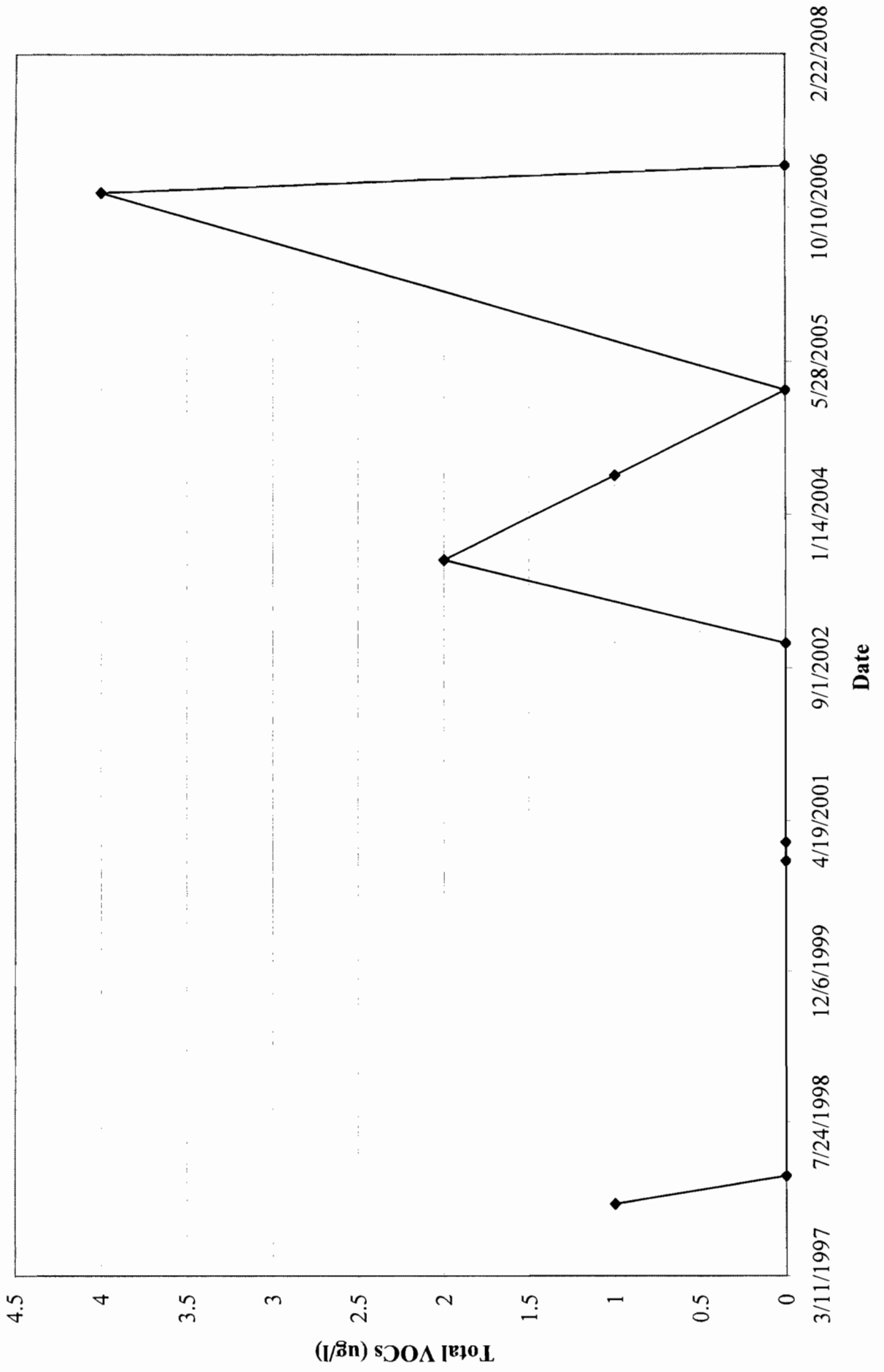
TOTAL VOCs IN MW-11S



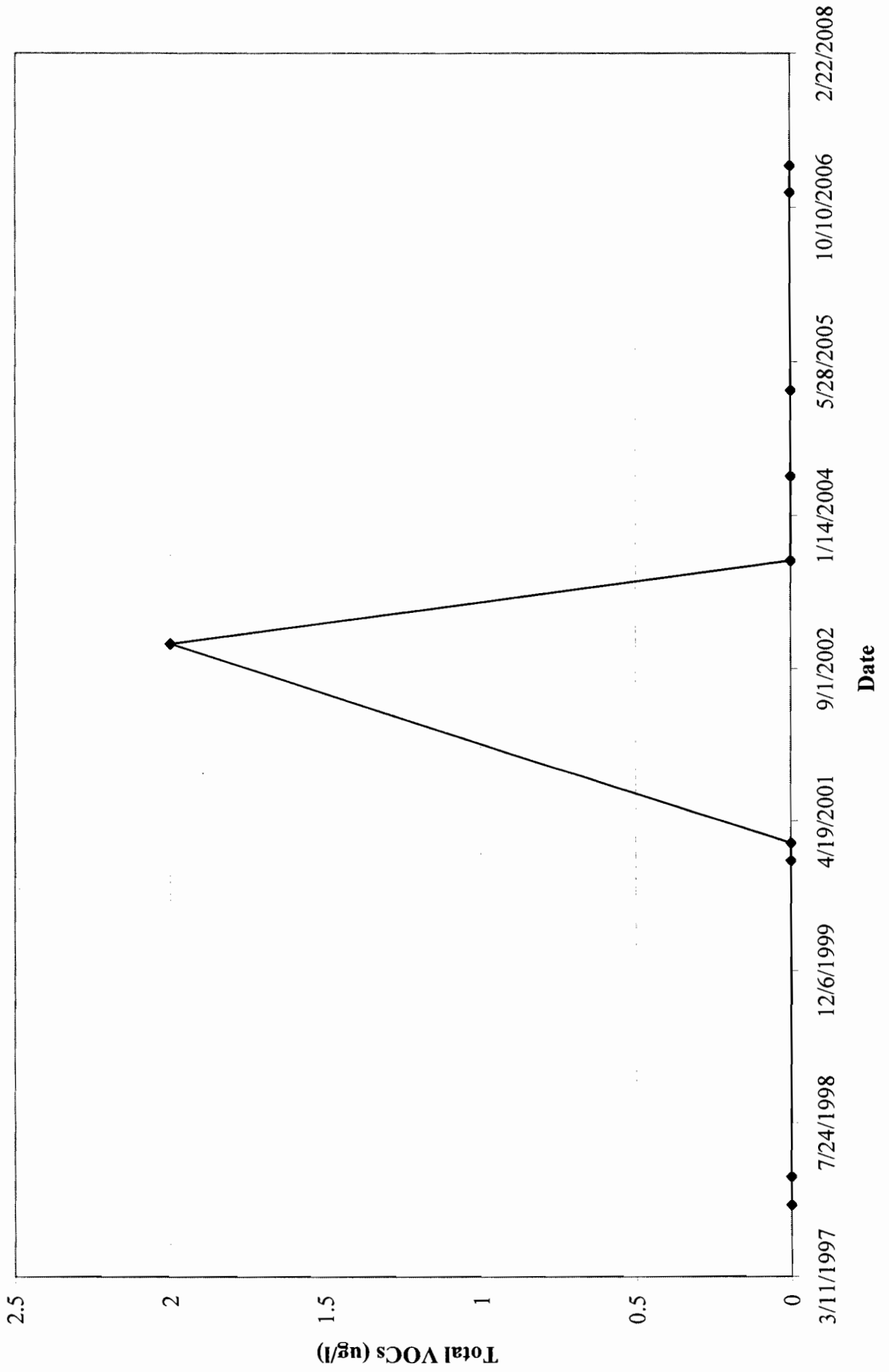
TOTAL VOCs IN MW-12D



TOTAL VOCs IN MW-12I



TOTAL VOCs IN MW-12S



APPENDIX D

DATA VALIDATION REPORTS

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable as reported, or with minor qualification as estimated. The issues requiring validation are discussed in the following analytical sections. Although only 10% of the samples underwent full validation review, recommended qualifications below are stated to include all project samples as pertains to general quality issues, and where evident.

Copies of laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Laboratory NYSDEC Sample Preparation and Analysis Summary Forms are also included with this report.

Data Completeness

Data packages were complete as received; no additional documentation was required.

Discrepancies in external custody entries and bottle labels were resolved at sample receipt. The bottles of the samples collected 2/21/07 and 2/22/07 did not include collection dates and times.

Volatile Analyses

Detected values below 10 ug/L in all samples are to be qualified as estimated ("J") due to responses falling below the established linearity of the system.

Sample surrogate and internal standard recoveries, the holding times, and the instrument tunes were acceptable.

The detection of acetone in MW-1D is to be edited to reflect non-detection ("U") due to poor mass spectral quality.

Due to presence in associated trip and/or method blanks, detected results for methylene chloride in the project samples are considered external contamination, and are to be edited to reflect non-detection ("U").

The matrix spike evaluation of MW-3S shows acceptable accuracy and precision, with only a slightly elevated duplicate correlation for analyte not detected in the parent sample. The matrix spikes of MW-11D show elevated recoveries for three compounds, and elevated duplicate correlations for all five of the compounds evaluated. The parent sample shows no detection of the outlying analytes, and therefore no qualification to the reported results is indicated. Spiked blank controls show acceptable recoveries for all compounds.

Blind field duplicate correlation of MW-1I was acceptable.

The following analyte results are to be qualified as estimated ("UJ" or "J"), with a possible low bias, due to outlying calibration standard responses:

- Trichorofluoromethane (28%D) in MW-5D
- Carbon tetrachloride (30%D) in MW-3S
- 1,2-dichloroethane (29%D) and 1,2-dibromo-3-chloropropane (33%D) in MW-4S

Detections of acetone in the samples are to be qualified as estimated ("J"), with a possible high bias, due to outlying system linearity (76%RSD).

TICs reported with the "X" laboratory flag are analysis artifacts and are to be disregarded as sample components.

Metals/CN Analyses

Matrix spike/duplicate correlations were performed on MW11D and MW-3S. All recovery values and duplicate correlations were acceptable, with the exceptions of those for the following elements, results of which are to be qualified as estimated in the indicated associated samples:

- Duplicate correlations for chromium and nickel ($>\pm$ CRDL) in MW-3S—associated samples are those reported in IRS051
- Recovery of selenium (139%) in MW-11D—associated samples are those reported in IRS052

Blind field duplicate correlations for MW-1I were acceptable, with the exception that zinc showed a variance exceeding \pm CRDL. The results for the low level detections in that parent sample and its duplicate are therefore to be qualified as estimated ("J").

Due to presence in the associated field blanks at concentrations above the reporting limit, detected values of zinc in samples collected 2/22/07, 2/28/07, and 3/02/07 are considered external contamination, and are to be edited to reflect non-detection ("U"). Other zinc detections are to be used with caution, as they may also reflect contamination.

The ICP serial dilutions of MW-11D and MW-3S were acceptable, with the exception of that for potassium (14%D) in MW-3S. Detected results for potassium in the samples reported in SDG IRS051 are therefore qualified as estimated ("J"), with a possible high bias.

Wet Chemistry Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

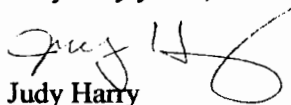
Matrix spike/duplicate correlations were performed on MW11D and MW-3S. All recovery values and duplicate correlations were within validation guidelines.

Blind field duplicate correlations of MW-1I were acceptable.

Field and preparation blanks show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION QUALIFIER DEFINITIONS



DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.





NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS051

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	MSVOA	WC
MW-1D	0702686-001	X	X	X
MW-1I	0702686-002	X	X	X
MW-1S	0702686-003	X	X	X
MW-1X	0702686-004	X	X	X
MW-5D	0702686-005	X	X	X
MW-5I	0702686-006	X	X	X
MW-5S	0702686-007	X	X	X
FB 2/21/07	0702686-008	X	X	X
TB 2/21/07	0702686-009		X	
MW-2D	0702742-001	X	X	X
MW-2I	0702742-002	X	X	X
MW-3S	0702742-003	X	X	X
MW-5I	0702742-004			X
MW-6D	0702742-005	X	X	X
MW-6I	0702742-006	X	X	X
MW-6S	0702742-007	X	X	X
MW-7I	0702742-008	X	X	X
FB 2/22/07	0702742-009	X	X	X
TB 2/22/07	0702742-010		X	
STORAGE BLANK	0702742-011		X	

CLP ~~(Non-CLP)~~ (Please indicate year of protocol)

ASP B
6/2000
CEL 3/2007

IRS051 E3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS052

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	MSVOA	WC
MW-4D	0702781-001	X	X	X
MW-4I	0702781-002	X	X	X
MW-4X	0702781-003	X	X	X
MW-11S	0702781-004	X	X	X
MW-12D	0702781-005	X	X	X
MW-12I	0702781-006	X	X	X
MW-12S	0702781-007	X	X	X
FB2/23/07	0702781-008	X	X	X
TB2/23/07	0702781-009		X	
STORAGE BLANK	0702781-010		X	
MW-11D	0702928-001	X	X	X
MW-11I	0702928-002	X	X	X
FB 2/28	0702928-003	X	X	X
TB 2/28/07	0702928-004		X	
MW-4S	0703057-001	X	X	X
FB 3/2	0703057-002	X	X	X
TB 3/2/07	0703057-003		X	

CLP Non-CLP (Please indicate year of protocol)

ASP B
6/2000
CEL 3/22/07

IRS052 E3

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES SAMPLES RECEIVED: 2/21/07 & 2/22/07 SDG #: IRS051

For Samples:

MW-1D	FB 2/21/07	MW-6I
MW-1I	TB 2/21/07	MW-6S
MW-1S	MW-2D	MW-7I
MW-1X	MW-2I	FB 2/22/07
MW-5D	MW-3S	TB 2/22/07
MW-5I	MW-5I	STORAGE BLANK
MW-5S	MW-6D	

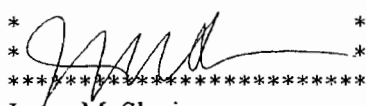
The above samples were analyzed according to the requirements of the NYSDEC ASP 2000 method 8260 for the part 360 expanded volatile organic analytes.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

- Sample MW-3S was analyzed as the matrix spike/matrix spike duplicate. 1,1-dichloroethene had a high %RPD.
- A lab-fortified blank was analyzed. All percent recoveries were within QC limits.
- Total xylene had a 25.3 % D in the continuing calibration of 2/22/07, carbon tetrachloride had a 30 % D in the continuing calibration of 2/28/07 and 1,2-dichloroethane had a 29 % D in the continuing calibration of 3/1/07. These % D's exceeded 25% but met the acceptance criteria of less than 40%.
- TIC's identified as "unknown siloxanes" which appear to originate from column bleed are flagged with and "X" qualifier.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 9, 2007

*  *

Joann M. Slavin
Senior Vice President

IRS051 E8

H2M LABS, INC.

**SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 2/21/07 & 2/22/07
SDG #: IRS051**

For Samples:

MW-1D	MW-2D
MW-1I	MW-2I
MW-1S	MW-3S
MW-1X	MW-6D
MW-5D	MW-6I
MW-5I	MW-6S
MW-5S	MW-7I
FB 2/21/07	FB 2/22/07

Sixteen water samples were received by H2M Labs, Inc on 2/21/07 and 2/22/07 for cyanide and select metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA 61E trace ICP instrument, 7470A with a Leeman Hydra Mercury analyzer and cyanide method 335.2.

Sample MW-3S was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron and manganese. Since the sample value was greater than four times the spike concentration, post spikes, and data qualifiers were not required.

Duplicate analysis did not reproduce within acceptance ranges for chromium and nickel. Chromium and nickel were reported flagged "*" on Forms 1 and 6.

ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 19, 2007

* *V. Stancampiano* *

Vincent Stancampiano *NRC*
Vice President

IRS051 E9

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY

SAMPLES RECEIVED: 2/21/07 & 2/22/07

SDG #: IRS051

For Samples:

MW-1D	MW-2D
MW-1I	MW-2I
MW-1S	MW-3S
MW-1X	MW-6D
MW-5D	MW-6I
MW-5I	MW-6S
MW-5S	MW-7I
FB 2/21/07	FB 2/22/07

Sixteen water samples were received by H2M Labs, Inc on 2/21/07 and 2/22/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Ammonia	EPA 350.1
Anions-Chloride, Sulfate and Bromide	EPA 300.0	Nitrate	EPA 353.2
Biochemical Oxygen Demand	EPA 405.1	Phenols	EPA 420.1
Chemical Oxygen Demand	EPA 410.4	Total Dissolved Solids	EPA 160.1
Color	EPA 110.2	Total Kjeldahl Nitrogen	EPA 351.2
Hexavalent Chromium	STDM 3500-CRD	Total Organic Carbon	EPA SW846 9060
Hardness	EPA 130.2		

Sample MW-3S was utilized for QC analysis and reporting.

Duplicate analysis did not reproduce within acceptance ranges for BOD. Batch acceptance was based on LCS analysis.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 15, 2007

V. Stancampiano

Vincent Stancampiano
Vice President

NRC

IRS051 E10

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLES RECEIVED: 2/23/07, 2/28/07 & 3/2/07
SDG #: IRS052

For Samples:

MW-4D	STORAGE BLANK
MW-4I	MW-11D
MW-4X	MW-11I
MW-11S	FB 2/28
MW-12D	TB 2/28/07
MW-12I	MW-4S
MW-12S	FB 3/2
FB2/23/07	TB 3/2/07
TB2/23/07	

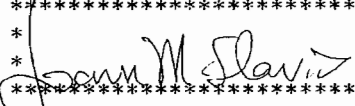
The above samples were analyzed according to the requirements of the NYSDEC ASP 2000 method 8260 for the part 360 expanded volatile organic analytes.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

- Sample MW-11D was analyzed as the matrix spike/matrix spike duplicate. Trichloroethene, toluene and chlorobenzene had a high percent recovery in the matrix spike duplicate. All RPD's were outside the Q.C. limits
- A lab-fortified blank was analyzed. All percent recoveries were within QC limits.
- TIC's identified as "unknown siloxanes" which appear to originate from column bleed are flagged with and "X" qualifier.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 16, 2007

*  *

Joann M. Slavin
Senior Vice President

NRC

IRS052 E8

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 2/23/07, 2/28/07 & 3/2/07
SDG #: IRS052

For Samples:

MW-4D	FB2/23/07
MW-4I	MW-11D
MW-4X	MW-11I
MW-11S	FB 2/28
MW-12D	MW-4S
MW-12I	FB 3/2
MW-12S	

Thirteen water samples were received by H2M Labs, Inc on 2/23/07, 2/28/07 & 3/2/07 for cyanide and select metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA 61E trace ICP instrument, 7470A with a Leeman Hydra Mercury analyzer and cyanide method 335.2.

Sample MW-11D was utilized for QC analysis and reporting.

Spike analysis did not recover within acceptance ranges for selenium. The sample was post spiked, reanalyzed and recovered at 112%. Selenium data was reported flagged "N" on Forms 1 and 5A.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 19, 2007

*
*

Vincent Stancampiano
Vice President

IRS052 E9

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 2/23/07, 2/28/07 and 3/2/07
SDG #: IRS052

For Samples:

MW-4D	FB2/23/07
MW-4I	MW-11D
MW-4X	MW-11I
MW-11S	FB 2/28
MW-12D	MW-4S
MW-12I	FB 3/2
MW-12S	

Thirteen water samples were received by H2M Labs, Inc on 2/23/07, 2/28/07 and 3/2/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Ammonia	EPA 350.1
Anions-Chloride, Sulfate and Bromide	EPA 300.0	Nitrate	EPA 353.2
Biochemical Oxygen Demand	EPA 405.1	Phenols	EPA 420.1
Chemical Oxygen Demand	EPA 410.4	Total Dissolved Solids	EPA 160.1
Color	EPA 110.2	Total Kjeldahl Nitrogen	EPA 351.2
Hexavalent Chromium	STDM 3500-CRD	Total Organic Carbon	EPA SW846 9060
Hardness	EPA 130.2		

Sample MW-11D was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 20, 2007

*
*

Vincent Stancampiano
Vice President

IRS052 E10

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

July 11, 2007

Kenneth Wenz
H2M Group
575 Broad Hollow Rd.
Melville, NY 11747

RE: Validation of ISLIP Sonia Road Landfill Site Data Packages
H2M SDG Nos. IRS52 and IRS53

Dear Mr. Wenz:

Review has been completed for the data packages generated by H2M Laboratories that pertain to samples collected 05/24/07 through 06/01/07 at the ISLIP Sonia Road Landfill Site. Twenty-four aqueous samples and two field duplicates were to be analyzed by H2M Labs for NYS 6 NYCRR Part 360 Routine parameters. Although only the eight Routine metals were required, the Baseline metals were reported. Volatile Tentatively Identified Compounds (TICs) were also reported. Field and trip blanks and matrix spikes/duplicates were processed. For this sampling event, full validation was performed on 10% of the samples. Those reviewed are: MW-1S, MW-4I, and MW-12D, field and trip blanks, and matrix spikes. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846.

Data validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic Data Review and the USEPA SOPs HW-2 and HW-6, as applicable for the methodology. The following items were reviewed:

- * Data Completeness
- * Laboratory Narrative
- * Custody Documentation
- * Holding Times
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Calibration Standards
- * ICP Serial Dilutions
- * Instrument IDLs
- * Method Compliance
- * Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of the fully validated samples are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable as reported, or with minor qualification as estimated. The issues requiring validation are discussed in the following analytical sections. Although only 10% of the samples underwent full validation review, recommended qualifications below are stated to include all project samples as pertains to general quality issues, and where evident.

Copies of laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Laboratory NYSDEC Sample Preparation and Analysis Summary Forms are also included with this report.

Data Completeness

Cooler/sample receipt temperatures were not provided, but the login forms indicate that they were acceptable, and the samples were received the same day as collection.

Data packages were complete as received; no additional documentation was required.

Metals Analyses

Due to presence in the associated field blank at concentrations above the reporting limit, detected values of copper and zinc in samples collected 5/24/07 and 5/25/07 are considered external contamination, and are to be edited to reflect non-detection ("U").

Matrix spike/duplicate correlations were performed on MW1D and MW-3S. All recovery values and duplicate correlations were acceptable, with the exceptions of the recovery of selenium (143%) in MW-3S. The detected results in samples reported in IRS054 are to be qualified as estimated in the indicated associated samples.

Blind field duplicate correlations for MW-11 and MW-5S were acceptable.

The ICP serial dilution evaluations of MW-1D and MW-3S were acceptable, with the exception of those for potassium in both (32%D and 12%D, respectively). Detected results for potassium in the project samples are therefore qualified as estimated ("J"), with a possible high bias.

Instrument processing is compliant (with the exception of one elevated calibration standard recovery not associated with project samples). Sample results are substantiated by the raw data.

Wet Chemistry Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

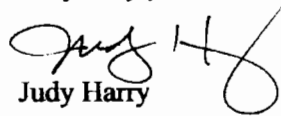
Matrix spike/duplicate correlations were performed on MW1D and MW-3S. All recovery values and duplicate correlations were within validation guidelines.

Blind field duplicate correlations of MW-11 and MW-5S were acceptable.

Field and preparation blanks show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

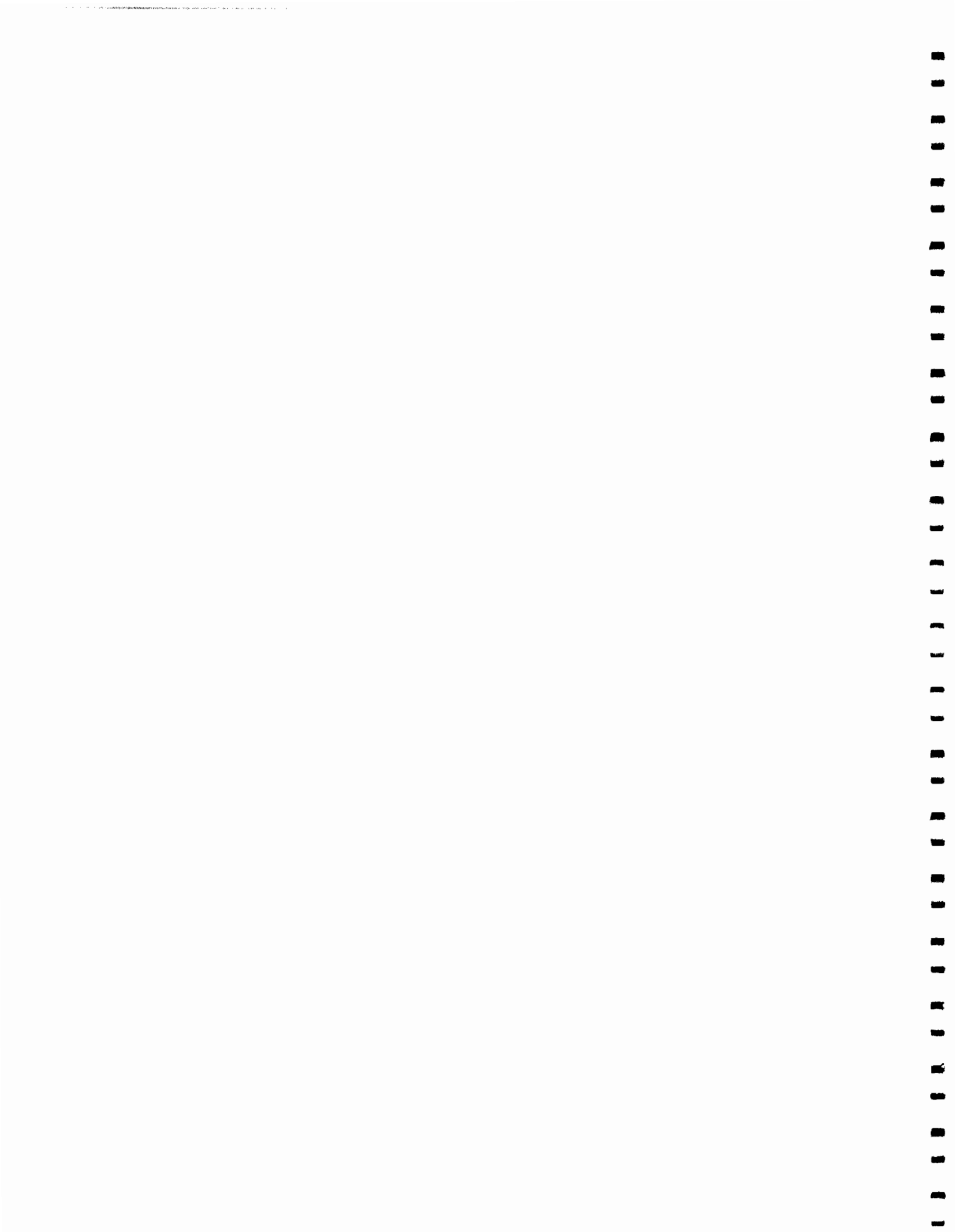

Judy Harry

VALIDATION QUALIFIER DEFINITIONS

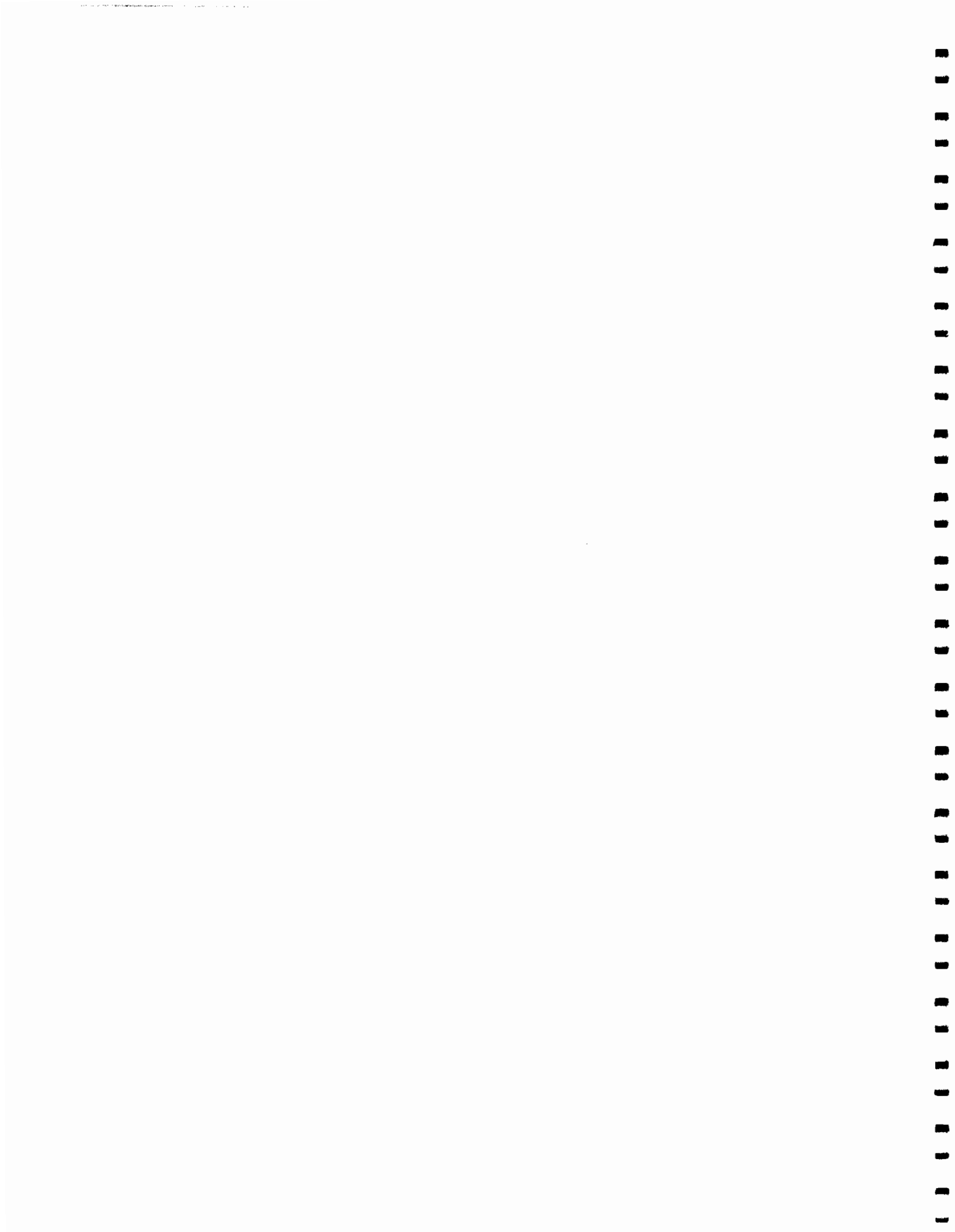
DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.



LABORATORY SAMPLE IDs AND CASE NARRATIVES



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS053

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-4D	0706211-001	X	X
MW-4I	0706211-002	X	X
MW-4S	0706211-003	X	X
MW-6D	0706211-004	X	X
MW-6I	0706211-005	X	X
MW-6S	0706211-006	X	X
MW-7I	0706211-007	X	X
FB 2/24	0706211-008	X	X
MW-1D	0706234-001	X	X
MW-1I	0706234-002	X	X
MW-1S	0706234-003	X	X
MW-1X	0706234-004	X	X
MW-2D	0706234-005	X	X
MW-2I	0706234-006	X	X
MW-5D	0706234-007	X	X
MW-5I	0706234-008	X	X
FB	0706234-009	X	X

CLP, Non-CLP (Please indicate year of protocol)

ASP B
01/2000
CEL 01/14/07

IRS053 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS053

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-4D	0706211-001	X	X
MW-4I	0706211-002	X	X
MW-4S	0706211-003	X	X
MW-6D	0706211-004	X	X
MW-6I	0706211-005	X	X
MW-6S	0706211-006	X	X
MW-7I	0706211-007	X	X
FB 2/24	0706211-008	X	X
MW-1D	0706234-001	X	X
MW-1I	0706234-002	X	X
MW-1S	0706234-003	X	X
MW-1X	0706234-004	X	X
MW-2D	0706234-005	X	X
MW-2I	0706234-006	X	X
MW-5D	0706234-007	X	X
MW-5I	0706234-008	X	X
FB	0706234-009	X	X

CLP Non-CLP (Please indicate year of protocol)

ASD B
01/2000
CEL 01/14/07

IRS053 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS054

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-11 D	0706423-001	X	X
MW-11 I	0706423-002	X	X
MW-11 S	0706423-003	X	X
MW-12 D	0706423-004	X	X
MW-12 I	0706423-005	X	X
MW-12 S	0706423-006	X	X
MW-3S	0706423-007	X	X
MW-5S	0706423-008	X	X
MW-5X	0706423-009	X	X
FB	0706423-010	X	X

CLP ~~Non-CLP~~ (Please indicate year of protocol)

ASP B
6/2000
CEL 6/18/07

IRS054 S3

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 5/24/07 & 5/25/07
SDG #: IRS053

For Samples:

MW-4D MW-11
MW-4I MW-1S
MW-4S MW-1X
MW-6D MW-2D
MW-6I MW-2I
MW-6S MW-5D
MW-7I MW-5I
FB 2/24 FB
MW-1D

Seventeen water samples were received by H2M Labs, Inc on 5/24/07 & 5/25/07 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-1D was utilized for QC analysis and reporting.

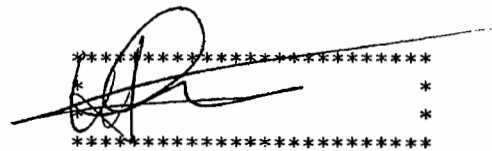
ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 6, 2007

*
*



Vincent Stancampiano
Vice President

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY SAMPLES RECEIVED: 5/24/07 & 5/25/07 SDG #: IRS053

For Samples:

MW-4D MW-1I
MW-4I MW-1S
MW-4S MW-1X
MW-6D MW-2D
MW-6I MW-2I
MW-6S MW-5D
MW-7I MW-5I
FB 2/24 FB
MW-1D

Seventeen water samples were received by H2M Labs, Inc on 5/24/07 and 5/25/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Ammonia	EPA 350.1	Nitrate	EPA 353.2
Alkalinity	EPA 310.1	Phenols	EPA 420.1
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Total Dissolved Solids	EPA 160.1
Biochemical Oxygen Demand	EPA 405.1	Total Kjeldahl Nitrogen	EPA 351.2
Chemical Oxygen Demand	EPA 410.4	Total Organic Carbon	EPA SW846 9060
Hardness	EPA 130.2		

Initial bromide spike analysis did not meet acceptance criteria. The sample, spike and duplicate aliquots were reanalyzed removing choride and sulfate. The bromide reanalysis was utilized for reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 14, 2007

*
*

Vincent Stancampiano
Vice President

IRS053 S22

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 6/1/07
SDG #: IRS054

For Samples:

MW-11 D MW-12 S
MW-11 I MW-3S
MW-11 S MW-5S
MW-12 D MW-5X
MW-12 I FB

Ten water samples were received by H2M Labs, Inc on 6/1/07 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-3S was utilized for QC analysis and reporting.

Spike analysis did not reproduce within acceptance range for selenium. The sample was post spiked, reanalyzed and recovered at 134.0%. Selenium data was reported flagged "N" on Forms a and 5a.

Iron and manganese spike recoveries were not within 75-125%. Since the sample values were greater than four times the spike concentrations, post spiking and data qualifiers were not required.

ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 14, 2007

*
*

Vincent Stancampiano
Vice President

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 6/1/07
SDG #: IRS054

For Samples:

MW-11 D MW-12 S
MW-11 I MW-3S
MW-11 S MW-5S
MW-12 D MW-5X
MW-12 I FB

Ten water samples were received by H2M Labs, Inc on 6/1/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Nitrate	EPA 353.2
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Phenols	EPA 420.1
Biochemical Oxygen Demand	EPA 405.1	Total Dissolved Solids	EPA 160.1
Chemical Oxygen Demand	EPA 410.4	Total Kjeldahl Nitrogen	EPA 351.2
Hardness	EPA 130.2	Total Organic Carbon	EPA SW846 9060
Ammonia	EPA 350.1		

Sample MW-3S was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 15, 2007

*
V. Stancampiano
***** NRC
Vincent Stancampiano
Vice President

IRS054 S15

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

Facsimile 518-251-4428

October 8, 2007

Kenneth Wenz
H2M Group
575 Broad Hollow Rd.
Melville, NY 11747

RE: Validation of ISLIP Sonia Road Landfill Site Data Packages
H2M SDG Nos. IRS055 and IRS056

Dear Mr. Wenz:

Review has been completed for the data packages generated by H2M Laboratories that pertain to samples collected 8/10/07 through 8/17/07 at the ISLIP Sonia Road Landfill Site. Twenty-two aqueous samples and two field duplicates were analyzed by H2M Labs for NYS 6 NYCRR Part 360 Routine parameters. Field blanks and matrix spikes/duplicates were processed. For this sampling event, full validation was performed on 10% of the samples. Those reviewed are: MW-7I, MW-4I, and MW-11I, and matrix spikes. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846.

Data validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic Data Review and the USEPA SOPs HW-2 and HW-6, as applicable for the methodology. The following items were reviewed:

- * Data Completeness
- * Laboratory Narrative
- * Custody Documentation
- * Holding Times
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Calibration Standards
- * ICP Serial Dilutions
- * Instrument IDLs
- * Method Compliance
- * Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of the fully validated samples are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria.

Most sample results are usable as reported, or with minor qualification as estimated. However, the results for sodium in the seven samples and field duplicate collected 8/10/07 are only usable as elevated reporting limits due to the fact that sodium was present at a significant level in the associated field blank. Several results for five wet chemistry leachate parameters are also qualified similarly due to contamination in the same blank.

The issues requiring validation are discussed in the following analytical sections. Although only 10% of the samples underwent full validation review, recommended qualifications below are stated to include all project samples as pertains to general quality issues, and where evident.

Copies of laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Laboratory NYSDEC Sample Preparation and Analysis Summary Forms are also included with this report.

Custody/Sample Receipt

Cooler/sample receipt temperatures were not provided, but the login forms indicate that they were acceptable, and the samples were received the same day as collection.

The field blank of 8/16/07 was not entered on the custody until sample receipt.

Data Package Completeness

Data packages were complete as received; no additional documentation was required.

Metals Analyses

Due to presence in the associated field blank at an elevated concentration of 13,300 ug/L, the detected values of sodium in samples collected 8/10/07 are considered external contamination, and are to be edited to reflect non-detection ("U") at high reporting limits (corresponding to originally reported concentrations). The sample constituency below that level is not known.

Matrix spike/duplicate correlations were performed on MW5D and MW12D. All recovery values and duplicate correlations were acceptable.

Blind field duplicate correlations for MW-5I and MW-12S were also within validation guidelines.

The ICP serial dilution evaluations of MW-5D and MW-12D were acceptable, with the exception of those for potassium in MW-5D (13%D). Detected results for potassium in all of the samples reported in SDG IRS055 are therefore to be qualified as estimated ("J"), with a possible high bias.

Instrument processing is compliant, and sample results are substantiated by the raw data.

Wet Chemistry Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

Due to presence in the associated field blank, the detected values of the following analytes are considered external contamination, and are to be edited to reflect non-detection ("U") an high reporting limits (corresponding to originally reported concentrations):

<u>Analyte</u>	<u>Affected Samples</u>
Alkalinity	MW-4D, MW-6D, MW-6I, MW-7I
Chloride	MW-4D, MW-6D
COD	MW-4I, MW-4S, MW-6S
Nitrate	MW-6D
TDS	MW-4D, MW-6D, MW-6S, MW-7I

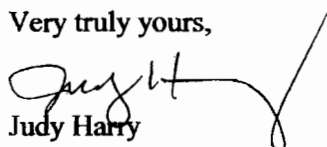
Matrix spike/duplicate correlations were performed on MW5D and MW-12D. All recovery values and duplicate correlations were within validation guidelines.

Blind field duplicate correlations for MW-5I and MW-12S were acceptable, with the exception of the total hardness values for MW-5I (1.80 mg/L and 240 mg/L). Results for that analyte in the parent sample and its duplicate are therefore to be considered as estimated in value.

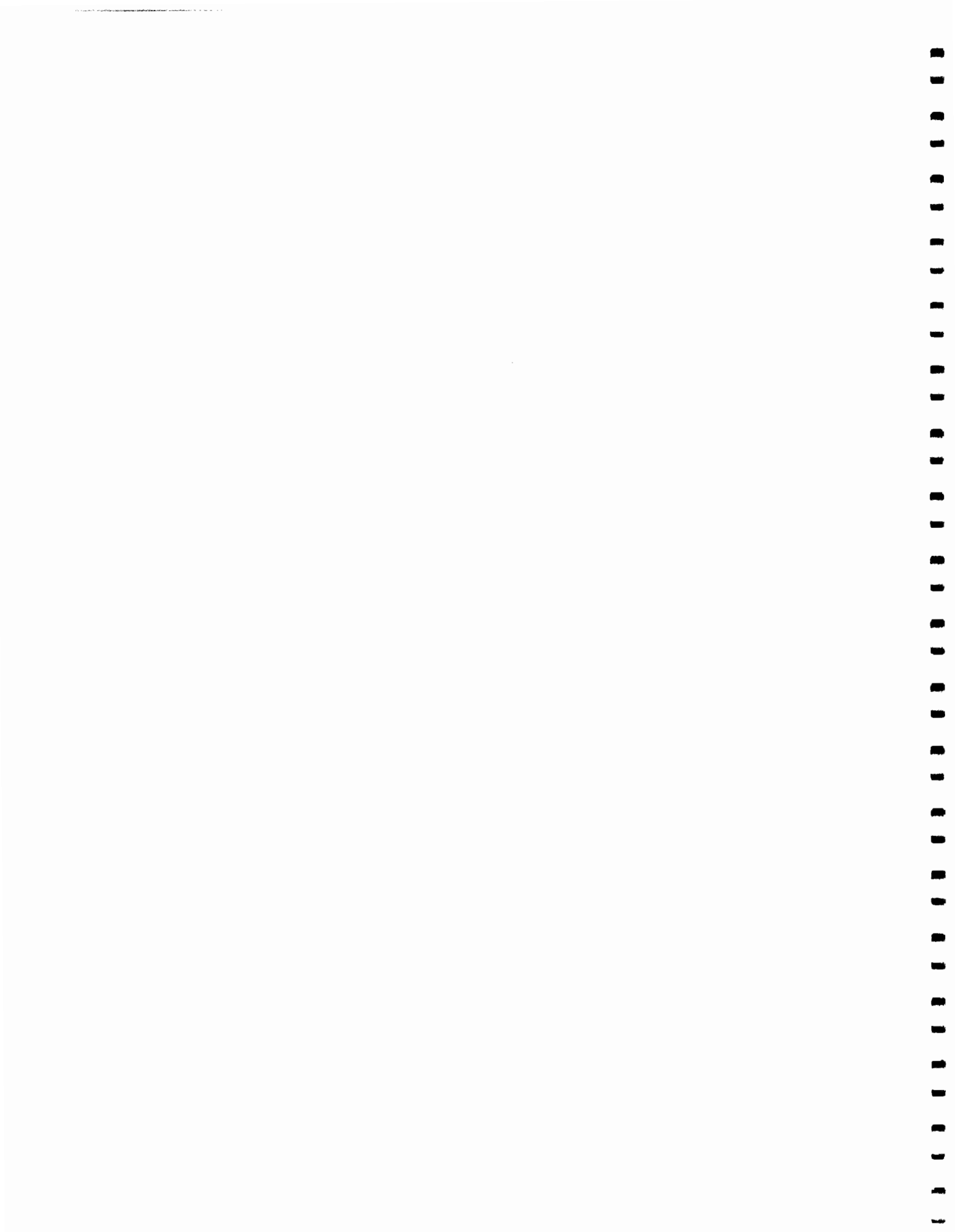
Field and preparation blanks show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION QUALIFIER DEFINITIONS



DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

LABORATORY SAMPLE IDs AND CASE NARRATIVES



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS055

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-4D	0709263-001	X	X
MW-4I	0709263-002	X	X
MW-4S	0709263-003	X	X
MW-6D	0709263-004	X	X
MW-6I	0709263-005	X	X
MW-6S	0709263-006	X	X
MW-7I	0709263-007	X	X
FB	0709263-008	X	X
MW-2D	0709414-001	X	X
MW-2I	0709414-002	X	X
MW-3S	0709414-003	X	X
MW-5D	0709414-004	X	X
MW-5I	0709414-005	X	X
MW-5S	0709414-006	X	X
MW-5X	0709414-007	X	X
FB 8/14	0709414-008	X	X
MW-1I	0709464-001	X	X
MW-1S	0709464-002	X	X
FB 8/15	0709464-003	X	X

CLP, Non-CLP (Please indicate year of protocol)

ASP B 6/2000

mm 9/4/07

IRS055 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS056

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	Analytical Requirements	
		ME	WC
MW-11I	0709517-001	X	X
MW-11S	0709517-002	X	X
MW-12D	0709517-003	X	X
MW-12I	0709517-004	X	X
MW-12S	0709517-005	X	X
MW-12X	0709517-006	X	X
FB 8/16	0709517-007	X	X
MW-1D	0709563-001	X	X
MW-11D	0709563-002	X	X
FB 8/17	0709563-003	X	X

CLP, ~~Non-CLP~~ (Please indicate year of protocol)

ASP B 6/2000

mm 9/6/07

IRS056 S3

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 8/10/07, 8/14/2007 & 8/15/07
SDG #: IRS055

For Samples:

MW-4D	FB	MW-5X
MW-4I	MW-2D	FB 8/14
MW-4S	MW-2I	MW-1I
MW-6D	MW-3S	MW-1S
MW-6I	MW-5D	FB 8/15
MW-6S	MW-5I	
MW-7I	MW-5S	

Nineteen water samples were received by H2M Labs, Inc on 8/10/07, 8/14/2007 and 8/15/07 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-5D was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for manganese. Since the sample value was greater than four times the spike concentration, post spikes and data qualifiers were not required.

ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: August 22, 2007

*
*



Vincent Stancampiano
Vice President

IRS055 S26

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 8/10/07, 8/14/07 & 8/15/07
SDG #: IRS055

For Samples:

MW-4D	MW-6S	MW-3S	FB 8/14
MW-4I	MW-7I	MW-5D	MW-1I
MW-4S	FB	MW-5I	MW-1S
MW-6D	MW-2D	MW-5S	FB 8/15
MW-6I	MW-2I	MW-5X	

Nineteen water samples were received by H2M Labs, Inc on 8/10/07, 8/14/07 and 8/15/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Nitrate	EPA 353.2
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Phenols	EPA 420.1
Biochemical Oxygen Demand	EPA 405.1	Total Dissolved Solids	EPA 160.1
Chemical Oxygen Demand	EPA 410.4	Total Kjeldahl Nitrogen	EPA 351.2
Hardness	EPA 130.2	Total Organic Carbon	EPA SW846 9060
Ammonia	EPA 350.1		

Sample MW-5D was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: September 4, 2007

*
*
*

Vincent Stancampiano
Vice President

H2M LABS, INC.

SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 8/16/07 & 8/17/07
SDG #: IRS056

For Samples:

MW-11I	MW-12X
MW-11S	FB 8/16
MW-12D	MW-1D
MW-12I	MW-11D
MW-12S	FB 8/17

Ten water samples were received by H2M Labs, Inc on 8/16/07 and 8/17/2007 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-12D was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within linear ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: August 28, 2007

*
*

Vincent Stancampiano
Vice President

H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 8/16/07 & 8/17/07
SDG #: IRS056**

For Samples:

MW-11I	MW-12X
MW-11S	FB 8/16
MW-12D	MW-1D
MW-12I	MW-11D
MW-12S	FB 8/17

Ten water samples were received by H2M Labs, Inc on 8/16/07 and 8/17/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Nitrate	EPA 353.2
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Phenols	EPA 420.1
Biochemical Oxygen Demand	EPA 405.1	Total Dissolved Solids	EPA 160.1
Chemical Oxygen Demand	EPA 410.4	Total Kjeldahl Nitrogen	EPA 351.2
Hardness	EPA 130.2	Total Organic Carbon	EPA 9060
Ammonia	EPA 350.1		

Sample MW-12D was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: September 6, 2007

*
*

Vincent Stancampiano
Vice President

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

Facsimile 518-251-4428

January 24, 2008

Kenneth Wenz
H2M Group
575 Broad Hollow Rd.
Melville, NY 11747

RE: Validation of ISLIP Sonia Road Landfill Site Data Packages
H2M SDG Nos. IRS057 and IRS058

Dear Mr. Wenz:

Review has been completed for the data packages generated by H2M Laboratories that pertain to samples collected 11/09/07 through 11/14/07 at the ISLIP Sonia Road Landfill Site. Twenty-two aqueous samples and two field duplicates were analyzed by H2M Labs for NYS 6 NYCRR Part 360 Routine parameters. Field blanks and matrix spikes/duplicates were processed. For this sampling event, full validation was performed on 10% of the samples. Those reviewed are: MW-6D, MW-5S, and MW-12S. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846.

Data validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic Data Review and the USEPA SOPs HW-2 and HW-6, as applicable for the methodology. The following items were reviewed:

- * Data Completeness
- * Laboratory Narrative
- * Custody Documentation
- * Holding Times
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Calibration Standards
- * ICP Serial Dilutions
- * Instrument IDLs
- * Method Compliance
- * Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of the fully validated samples are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable as reported, or with minor qualification as estimated or edit to non-detection.

The issues requiring validation are discussed in the following analytical sections. Although only 10% of the samples underwent full validation review, recommended qualifications below are stated to include all project samples as pertains to general quality issues, and where evident.

Copies of laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Laboratory NYSDEC Sample Preparation and Analysis Summary Forms are also included with this report.

Custody/Sample Receipt

Cooler/sample receipt temperatures were not provided, but the login forms indicate that they were in compliance.

Edits to sample IDs and collection times on the custody forms should have been dated and initialed.

Data Package Completeness

Data packages were complete as received; no additional documentation was required.

Metals Analyses

Matrix spike/duplicate correlations were performed on MW-2D and MW-11S. All recovery values and duplicate correlations were acceptable.

Blind field duplicate correlations for MW-4S and MW-11I are within validation guidelines.

The ICP serial dilution evaluation of MW-2D was acceptable, with the exception of those for potassium in MW-2D (23%D). Detected results for potassium in all of the samples reported in SDG IRS057 are therefore to be qualified as estimated ("J"), with a possible high bias.

The ICP serial dilution evaluation of MW-11S shows elevated correlations for calcium, magnesium, manganese, and sodium (17%D to 19%D). Detected results for these four elements in all of the samples reported in SDG IRS058 are therefore to be qualified as estimated ("J"), with a possible high bias.

acceptable, with the exception of those for potassium in MW-2D (23%D). Detected results for potassium in all of the samples reported in SDG IRS057 are therefore to be qualified as estimated ("J"), with a possible high bias.

Results for lead in the samples reported in SDG IRS057 are to be qualified as estimated ("J" or "UJ"), with a slight low bias, due to low recoveries (76% and 63%) in the associated CRI standards. No corrective action was required of the laboratory.

Field and method blanks show no contamination above reporting limit.

Instrument processing is compliant, and sample results are substantiated by the raw data.

Wet Chemistry Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

Matrix spike/duplicate correlations were performed on MW-2D and MW-11S. All recovery values and duplicate correlations were within validation guidelines.

Blind field duplicate correlations for MW-4S and MW-11I are within validation guidelines.

Field and preparation blanks show no contamination.

Results for ammonia and TKN in MW-6I are to be qualified as estimated, as the determined concentration for the latter is significantly higher than that of the former in the sample.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION QUALIFIER DEFINITIONS



DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

LABORATORY SAMPLE IDs AND CASE NARRATIVES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS057

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-1D	0712902-001	X	X
MW-1I	0712902-002	X	X
MW-1S	0712902-003	X	X
MW-6D	0712902-004	X	X
MW-6I	0712902-005	X	X
MW-6S	0712902-006	X	X
FB 11/9	0712902-007	X	X
MW-2D	0712957-001	X	X
MW-2I	0712957-002	X	X
MW-4D	0712957-003	X	X
MW-4I	0712957-004	X	X
MW-4S	0712957-005	X	X
MW-4X	0712957-006	X	X
MW-5D	0712957-007	X	X
MW-5I	0712957-008	X	X
MW-5S	0712957-009	X	X
FB 11/12	0712957-010	X	X

CLP, Non-CLP (Please indicate year of protocol)

ASP B 6/00

mm 12/6/07

IRS057 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

SDG: IRS058

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	WC
MW-3S	0713069-001	X	X
MW-7I	0713069-002	X	X
MW-11D	0713069-003	X	X
MW-11I	0713069-004	X	X
MW-11S	0713069-005	X	X
MW-11X	0713069-006	X	X
MW-12D	0713069-007	X	X
MW-12I	0713069-008	X	X
MW-12S	0713069-009	X	X
FB 11/14	0713069-010	X	X

CLP, Non-CLP (Please indicate year of protocol)

IRS058 S3

H2M LABS, INC.

**SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 11/9/07 & 11/13/07
SDG #: IRS057**

For Samples:

MW-1D	MW-4D
MW-1I	MW-4I
MW-1S	MW-4S
MW-6D	MW-4X
MW-6I	MW-5D
MW-6S	MW-5I
FB 11/9	MW-5S
MW-2D	FB 11/12
MW-2I	

Seventeen water samples were received by H2M Labs, Inc on 11/9/07 and 11/13/07 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-2D was utilized for QC analysis and reporting.

ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: November 21, 2007

*
*
*

Vincent Stancampiano
Vice President

IRS057 S21

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 11/9/07 & 11/13/07
SDG #: IRS057

For Samples:

MW-1D	MW-4D
MW-1I	MW-4I
MW-1S	MW-4S
MW-6D	MW-4X
MW-6I	MW-5D
MW-6S	MW-5I
FB 11/9	MW-5S
MW-2D	FB 11/12
MW-2I	

Seventeen water samples were received by H2M Labs, Inc on 11/9/07 and 11/13/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Nitrate	EPA 353.2
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Phenols	EPA 420.1
Biochemical Oxygen Demand	EPA 405.1	Total Dissolved Solids	EPA 160.1
Chemical Oxygen Demand	EPA 410.4	Total Kjeldahl Nitrogen	EPA 351.2
Hardness	EPA 130.2	Total Organic Carbon	EPA 9060
Ammonia	EPA 350.1		

Sample MW-2D was utilized for QC analysis and reporting.

Sample MW-6I initial ammonia value exceeded the TKN value. The sample was reanalyzed and reported.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: December 6, 2007

*
*
*

Vincent Stancampiano
Vice President

IRS057 S22

H2M LABS, INC.

**SDG NARRATIVE FOR METALS
SAMPLES RECEIVED: 11/14/07
SDG #: IRS058**

For Samples:

MW-3S	MW-11X
MW-7I	MW-12D
MW-11D	MW-12I
MW-11I	MW-12S
MW-11S	FB 11/14

Ten water samples were received by H2M Labs, Inc on 11/14/07 for select metals analysis.

Samples were prepared and analyzed using EPA method 6010B with a TJA 61E Trace ICP instrument.

Sample MW-11S was utilized for QC analysis and reporting.

The low level sodium line did not meet acceptance criteria. Samples were reanalyzed for low level sodium on 11/27/07 and reported.

ICP serial dilution analysis did not reproduce within acceptance ranges for calcium, magnesium, manganese and sodium. Associated data were reported flagged "E" on Forms 1 and 9.

No other issues were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: December 3, 2007

*
*

Vincent Stancampiano
Vice President

IRS058 S16

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 11/14/07
SDG #: IRS058

For Samples:

MW-3S	MW-11X
MW-7I	MW-12D
MW-11D	MW-12I
MW-11I	MW-12S
MW-11S	FB 11/14

Ten water samples were received by H2M Labs, Inc on 11/14/07 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity	EPA 310.1	Nitrate	EPA 353.2
Anions-Chloride/Sulfate/Bromide	EPA 300.0	Phenols	EPA 420.1
Biochemical Oxygen Demand	EPA 405.1	Total Dissolved Solids	EPA 160.1
Chemical Oxygen Demand	EPA 410.4	Total Kjeldahl Nitrogen	EPA 351.2
Hardness	EPA 130.2	Total Organic Carbon	EPA 9060
Ammonia	EPA 350.1		

Sample was utilized for QC analysis and reporting.

Sample MW-11S was utilized for QC analysis and reporting.

Samples were diluted and reanalyzed as required to keep instrument readings within calibration ranges.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: December 7, 2007

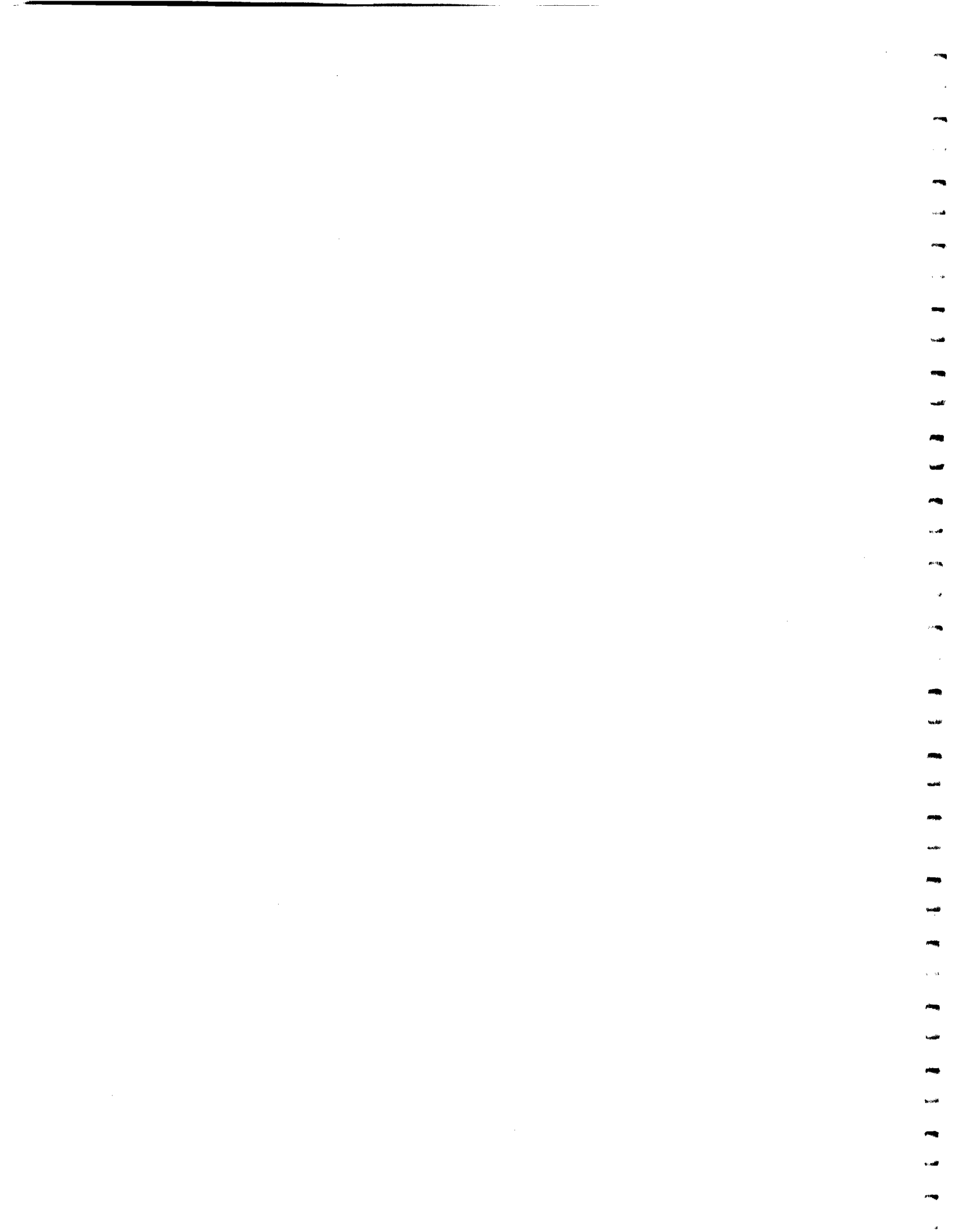
*
*
*

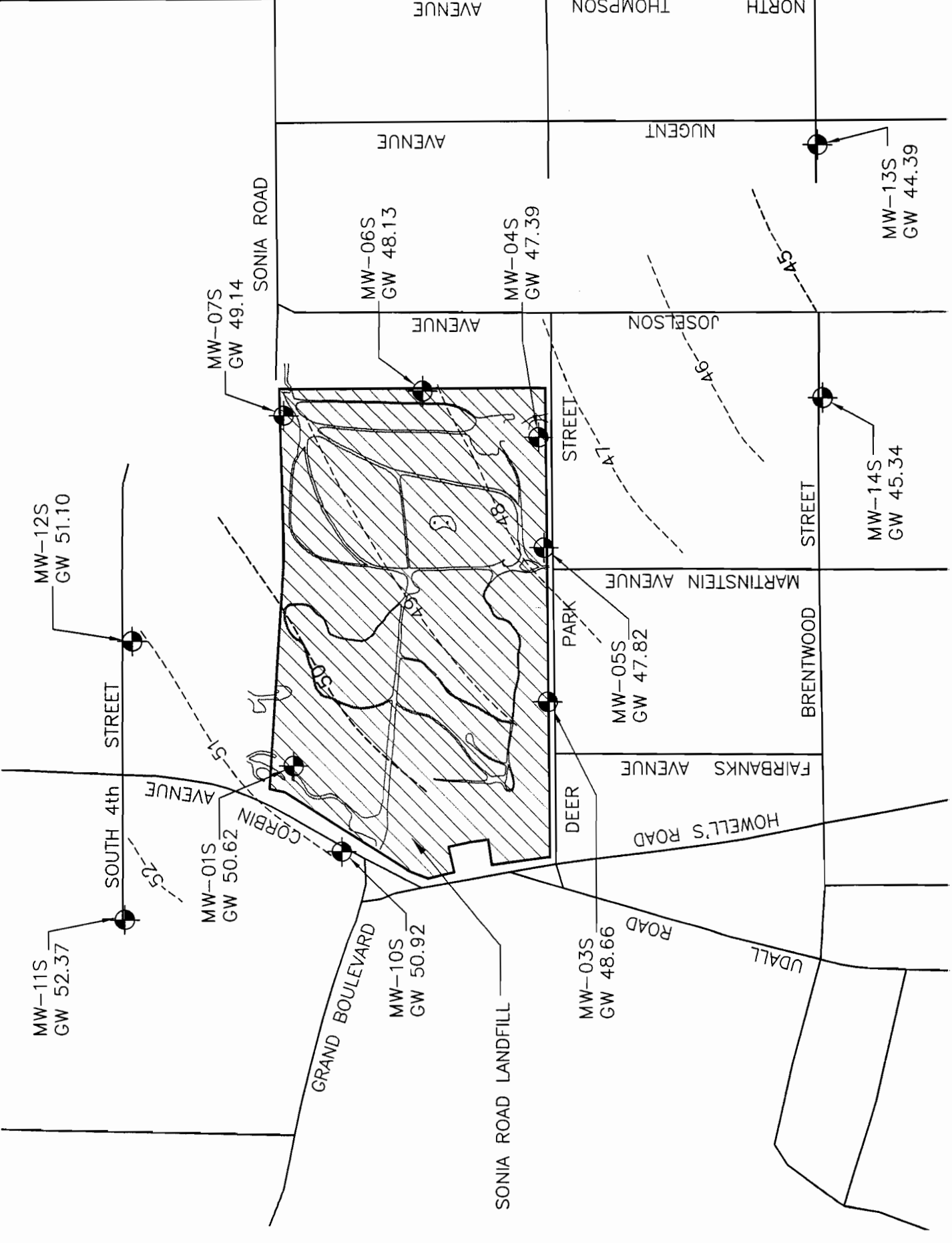
Vincent Stancampiano
Vice President

IRS058 S17

APPENDIX E

GROUNDWATER ELEVATION CONTOUR MAPS



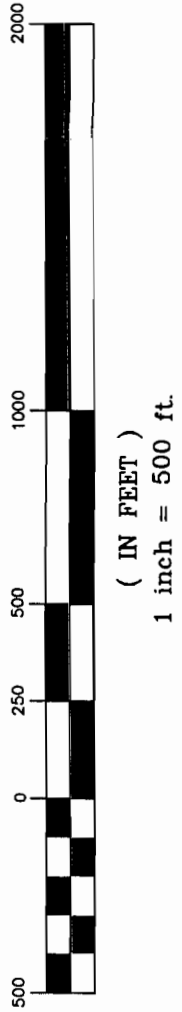


LEGEND
 MW-11S MONITORING WELL LOCATION AND DESIGNATION
 GW 53.32 GROUNDWATER ELEVATION, IN FEET MSL
 53 GROUNDWATER ELEVATION CONTOUR, IN FEET MSL



FIGURE 3
SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER
MONITORING PROGRAM
WATER TABLE ELEVATION CONTOUR MAP

TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK
 SCALE 1" = 500' PROJECT No. ISLP-0701 DATE: DEC. 2007



H2M GROUP
 ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS
HOLZMACHER, MOLENDON & MURRELL, P.C.
 676 Broad Hollow Road, Melville, New York 11747
 E-mail: h2m@h2m.com
 www.h2m.com
 TOTOWA, N.J. (973)-942-0700
 MELVILLE, N.Y. (631)-756-8000



LEGEND

- MW-11 MONITORING WELL LOCATION AND DESIGNATION
- GW 53.31 GROUNDWATER ELEVATION, IN FEET MSL
- 53 GROUNDWATER ELEVATION CONTOUR, IN FEET MSL

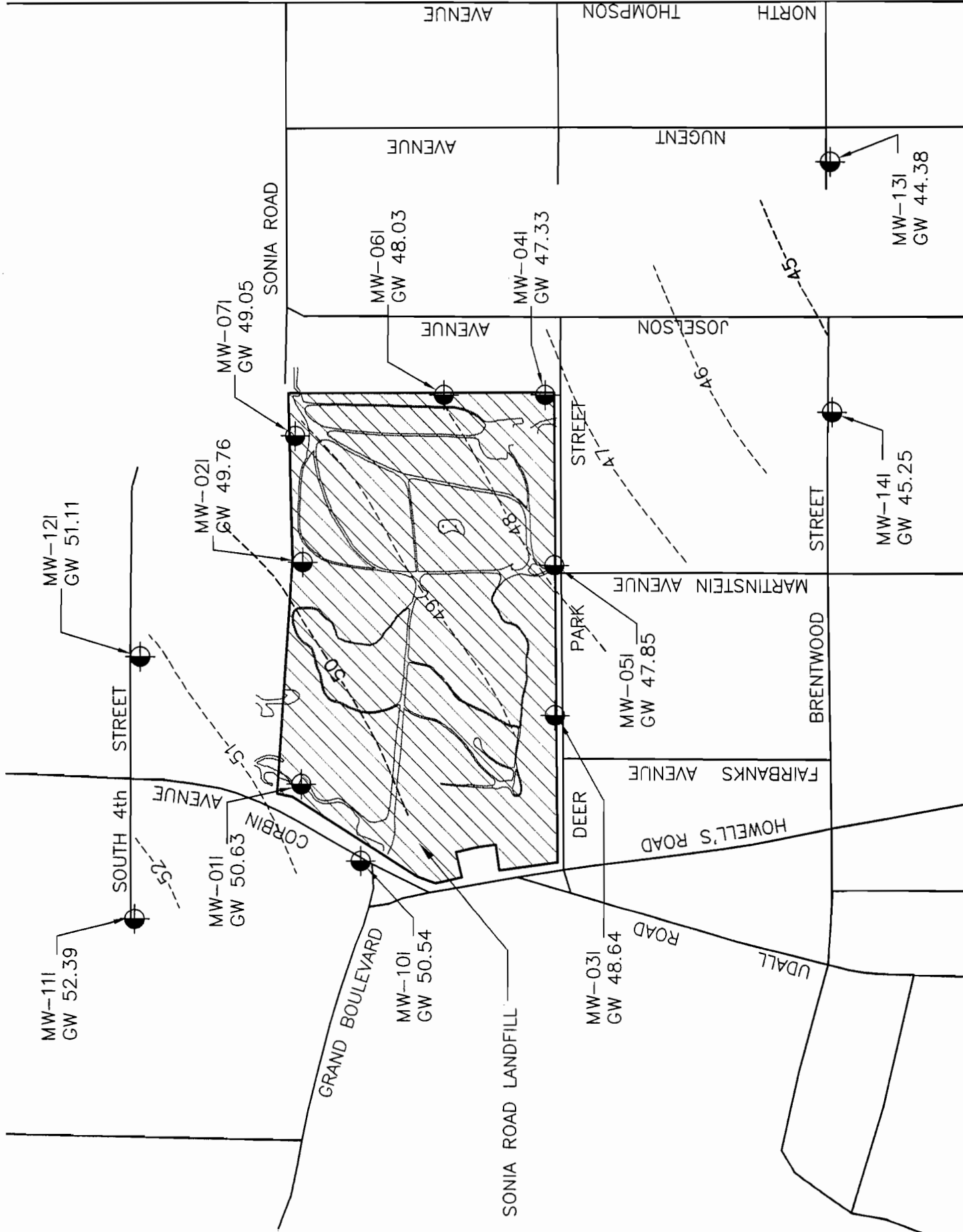
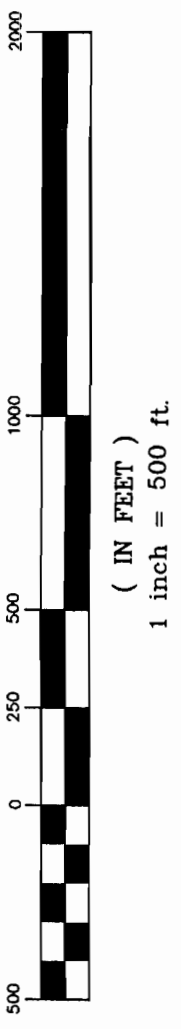


FIGURE 4
SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER
MONITORING PROGRAM
POTENTIOMETRIC SURFACE ELEVATION
CONTOUR MAP FOR INTERMEDIATE ZONE

TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK
 SCALE 1" = 500' PROJECT No. ISLP-0701 DATE: DEC. 2007



H2M GROUP
 ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS

HOLZMACHER, McLENDON & MURRELL, P.C.
 675 Broad Hollow Road, Melville, New York 11747

MELVILLE, N.Y. ■ (631)-756-8000
 TOTOWA, N.J. □ (973)-942-0700

E-mail: h2m@h2m.com
 www.h2m.com



LEGEND

MW-1D  MONITORING WELL LOCATION AND DESIGNATION

GW 53.32  GROUNDWATER ELEVATION, IN FEET MSL

53  GROUNDWATER ELEVATION CONTOUR, IN FEET MSL

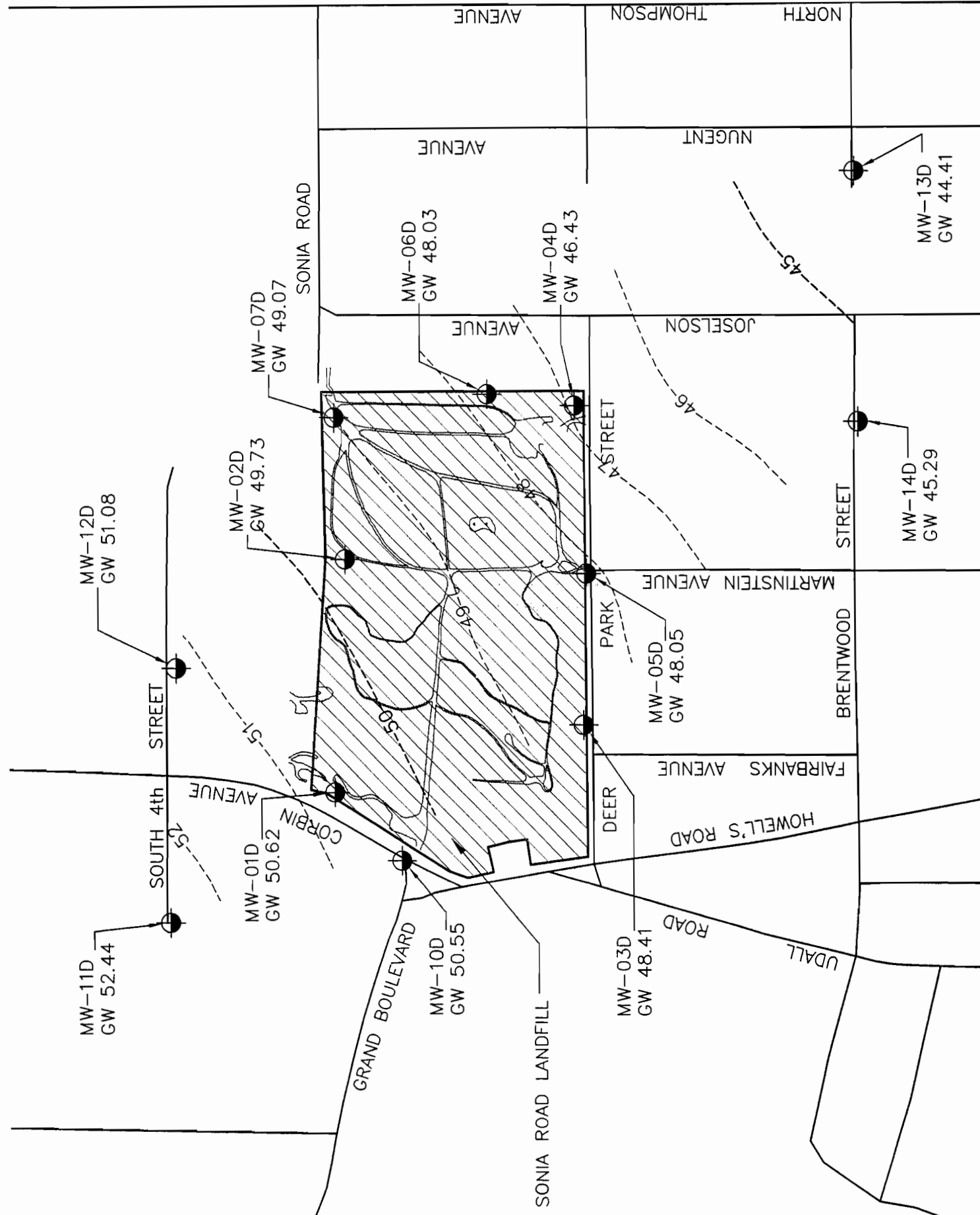


FIGURE 6
SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER
MONITORING PROGRAM
POTENTIOMETRIC SURFACE ELEVATION
CONTOUR MAP FOR DEEP ZONE

TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK
 SCALE 1" = 500' PROJECT No. ISLP-0701 DATE: DEC. 2007

GRAPHIC SCALE



(IN FEET)
 1 inch = 500 ft.

H2M GROUP
 ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS

HOLZMACHER, McLENDON & MURRELL, P.C.
 575 Broad Hollow Road, Melville, New York 11747

E-mail: h2m@h2m.com
 www.h2m.com

MELVILLE, N.Y. ■
 (631)-756-8000

TOTOWA, N.J. □
 (973)-842-0700



H2M GROUP

HOLZMACHER, McLENDON & MURRELL, P.C.

175 Pinelawn Road, Suite 308, Melville, NY 11747-5076

Tel: (631) 756-8000 | Fax: (631) 773-4430 | www.h2m.com