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May 31, 2012

Mr. Rusty Lundberg
Director, Division of Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144820
Salt Lake City, UT 84114-4820

**Re: Transmittal of 1st Quarter 2012 Nitrate Monitoring Report
UDEQ Docket No. UGW-09-03 White Mesa Uranium Mill**

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 1st Quarter of 2012 as required by the January 2009 Stipulated Consent Agreement, UDEQ Docket No. UGW-09-03, as well as two CDs each containing a word searchable electronic copy of the report.

If you should have any questions regarding this report please contact me.

Yours very truly,

A handwritten signature in blue ink that reads "Jo Ann Tischler".

DENISON MINES (USA) CORP.
Jo Ann Tischler
Director, Compliance and Permitting

CC: Ron F. Hochstein
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White Mesa Uranium Mill

Nitrate Monitoring Report

**State of Utah
Stipulated Consent Agreement, January 2009
Docket No. UGW09-03**

**1st Quarter
(January through March)
2012**

Prepared by:

Denison Mines (USA) Corp.
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May 31, 2012

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1.0 INTRODUCTION

The Utah Department of Environmental Quality (“UDEQ”) Division of Radiation Control (“DRC”) noted in a Request dated September 30, 2008 (the “Request”), for a Voluntary Plan and Schedule to Investigate and Remediate Nitrate Contamination at the White Mesa Uranium Mill (the “Mill”) (the “Plan”), that nitrate levels have exceeded the State water quality standard of 10 mg/L in certain monitoring wells. As a result of the Request, Denison Mines (USA) Corp. (“DUSA”) entered into a Stipulated Consent Agreement (the “Consent Agreement”) with the Utah Water Quality Board in January 2009 which directed the preparation of a Nitrate Contamination Investigation Report (“CIR”) and Quarterly Nitrate Monitoring Reports. A subsequent letter dated December 1, 2009, among other things, recommended that DUSA also address elevated chloride concentration in the Nitrate Monitoring Reports. The Consent Agreement (“CA”) was amended in August 2011. Under the amended Consent Agreement, DUSA submitted a Corrective Action Plan (“CAP”), pursuant to the requirements of the Utah Groundwater Quality Protection Rules [UAC R317-6-6.15(C – E)] on November 29, 2011 and revised versions of the CAP on February 27, 2012 and May 7, 2012.

This is the Quarterly Nitrate Monitoring Report, as required under the Consent Agreement, State of UDEQ Docket No. UGW-09-03 for the first quarter of 2012.

2.0 GROUNDWATER NITRATE MONITORING

2.1 Samples and Measurements Taken During the Quarter

A map showing the location of all groundwater monitoring wells, piezometers, existing wells, temporary chloroform contaminant investigation wells and temporary nitrate investigation wells is attached under Tab A. Nitrate samples and measurements taken during this reporting period (January through March 2012), are discussed in the remainder of this section.

2.1.1 Nitrate Monitoring

Quarterly sampling for nitrate monitoring parameters was performed in the following wells:

TWN-1	TWN-8	TWN-15	Piezometer 2
TWN-2	TWN-9	TWN-16	Piezometer 3
TWN-3	TWN-10	TWN-17	
TWN-4	TWN-11	TWN-18	
TWN-5	TWN-12	TWN-19	
TWN-6	TWN-13	Upper Wildlife Pond (“UWLP”)	
TWN-7	TWN-14	Piezometer 1	

Table 1 provides an overview of all locations sampled during the current period, along with the date samples were collected from each location, and the date(s) upon which

analytical data were received from the contract laboratory. Table 1 also identifies rinsate samples collected, as well as sample numbers associated with any required duplicates.

As indicated in Table 1, nitrate monitoring was performed in all of the nitrate monitoring wells, the UWLP, and Piezometers 1, 2, and 3. Analytical data for all of the nitrate wells, piezometers and the UWLP are included in Tab G.

Nitrate and chloride are also monitored in all of the Mill's groundwater monitoring wells and chloroform investigation wells. Data from those wells for this quarter are incorporated in certain maps and figures in this report but are discussed in their respective programmatic reports.

2.1.2 Parameters Analyzed

Locations sampled during this reporting period were analyzed for the following constituents:

- Inorganic Chloride
- Nitrate plus Nitrite as Nitrogen (referred to herein as nitrate)

Use of analytical methods consistent with the requirements of the White Mesa Uranium Mill Groundwater Quality Assurance Plan, Revision 6, March 22, 2010 (the "QAP") was confirmed for all analytes, as discussed later in this report.

2.1.3 Groundwater Head and Level Monitoring

Depth to groundwater was measured in the following wells and/or piezometers, pursuant to Part I.E.3 of the Groundwater Discharge Permit (the "GWDP") (dated July 14, 2011):

- The quarterly groundwater compliance monitoring wells.
- Existing well MW-4 and all of the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3, P-4 and P-5.
- MW-20, MW-22, and MW-34.
- The DR piezometers which were installed during the Southwest Hydrogeologic Investigation.
- Nitrate monitoring wells.
- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for all wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

All well levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement dates in the summary sheet under Tab C.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

The QAP provides a detailed presentation of procedures utilized for groundwater sampling activities under the GWDP (July 14, 2011).

The sampling methodology, equipment and decontamination procedures that were performed for the nitrate contaminant investigation, as summarized below, are consistent with the QAP.

2.2.1 Well Purging and Depth to Groundwater

A list of the wells in order of increasing nitrate contamination is generated quarterly. The order for purging is thus established. The list is included with the Field Data Worksheets under Tab B. Mill personnel start purging with all of the non-detect wells and then move to the more contaminated wells in order of nitrate contamination, starting with the wells having the lowest nitrate contamination.

Before leaving the Mill office, the pump and hose are decontaminated using the cleaning agents described in Section 6.2.5 of the QAP. A rinsate blank is collected after the first pump decontamination of each day as described below. Mill personnel then proceed to the first well which is the well with the lowest concentration of nitrate based on the previous quarter's sampling results. Well depth measurements are taken and the two casing volumes are calculated (measurements are made using the same instrument used for the monitoring wells under the Mill's GWDP). The Grundfos pump (a 6 to 10 gallon per minute [gpm] pump) is then lowered to the bottom of the well and purging is begun. At the first well, the purge rate is measured for the purging event by using a calibrated 5 gallon bucket. After the evacuation of the well has been completed, the well is sampled when possible, and the pump is removed from the well and the process is repeated at each well location moving from the least contaminated to most contaminated well. If sample collection is not possible due to the well being purged dry a sample is collected after recovery as described below. All wells are capped and secured prior to leaving the sampling location.

Decontamination of non-dedicated equipment, using the reagents in Section 6.2.5 of the QAP, is performed between each sample location, and at the beginning of each sampling day, in addition to the pre-event decontamination described above.

2.2.2 Sample Collection

Wells

Following the purging of a nitrate investigation well, the sampling takes place once stabilization has been achieved in accordance with Section 6.2.7 of the QAP. Prior to leaving the Mill office for sampling, Mill Personnel prepare a cooler with ice. A trip blank is not required as the sampling event does not include analyses for Volatile Organic Compounds ("VOCs"). Once Mill Personnel arrive at the well sites, labels are filled out for the various samples to be collected. All personnel involved with the collection of water and samples are then outfitted with rubber gloves to avoid sample contamination.

Each sample collection event begins at the location least affected by nitrate (based on the previous quarter's sampling event) and proceeds by affected concentration to the most affected location. The dedicated portable pump is appropriately decontaminated prior to each sampling event, each sampling day, and between well samples. It is important to note that the rinsate blank sample frequency was modified during the fourth quarter 2010 as recommended by UDEQ personnel present on site for split sampling during the chloroform sampling program. Previously, a rinsate blank sample was collected after each decontamination of the nondedicated pump and prior to the next use of the pump. Per an e-mail from Mr. Phil Goble, dated, November 15, 2010, the decreased rinsate blank frequency implemented during the chloroform sampling program was acceptable for implementation on the nitrate sampling program. Based on the revised procedure, rinsate blank samples are only required at the beginning of the sampling event and at the beginning of each day of sampling. The frequency change was implemented during fourth quarter 2010. The rinsate blank sample frequency will be modified again during the third quarter 2012 sampling event pursuant to UDEQ approval of the Groundwater QAP, Revision 7.1 on May 30, 2012. The frequency for rinsate blank samples will be one rinsate blank sample for every 20 field samples.

Samples are taken from the portable pump after stabilization has been achieved, unless the well is pumped dry. If the well is pumped dry, Mill personnel use a disposable bailer to sample the well after it has recovered in accordance with Section 6.2.7 of the QAP. The bailer is attached to a reel of approximately 150 feet of nylon rope and then lowered into the well. After coming into contact with the water, the bailer is allowed to sink into the water in order to fill. Once full, the bailer is reeled up out of the well.

Sample bottles are filled as follows:

- First, a 250 ml sample is collected for nitrate/nitrite. This sample is not filtered, but is preserved with H₂SO₄.
- Second, a 500 ml sample is collected for chloride. This sample is not filtered and is not chemically preserved.

After the samples have been collected for a particular well, the samples are placed into the cooler that contains ice. The well is then recapped and Mill personnel proceed to the next well. If a bailer has been used it is disposed of.

Ponds

Grab samples are taken from the UWLP using a disposable bailer. Sample bottles are filled in the same manner as for wells, as stated above. After the samples are collected, the bailer is disposed of and samples are placed into a cooler containing ice for sample preservation and transit to the Mill's contract analytical laboratory, Energy Laboratories ("EL").

Piezometers

Samples are collected from Piezometers 1, 2 and 3, if possible. Samples are collected from piezometers using a disposable bailer following the procedures described for wells that have been pumped dry, above. However, due to the difficulty in obtaining samples from the piezometers, the purging protocols set out in the QAP are not followed.

After samples are collected, the bailer is disposed of and samples are placed into a cooler containing ice for sample preservation and transit to the Mill's contract analytical laboratory, EL.

2.3 Field Data

Attached under Tab B are copies of all Field Data Worksheets that were completed during the quarter for the nitrate contaminant investigation monitoring wells, piezometers, and UWLP identified in Section 2.1.1 above, and Table 1. It is important to note that the field data sheet appearance was changed in the fourth quarter 2010 as a result of the implementation of an electronic data capture system. The field data sheets contain the same information as the approved field data sheet attached to the approved QAP in approximately the same location. The new data sheets allow the electronic capture of data while still maintaining the real-time recording of information manually in ink as required by UDEQ. The changes were made to accommodate the data recording and validation system. Revised field forms will be used during the third quarter 2012 sampling event. The revised field forms are based on the changes approved in the Groundwater QAP, Revision 7.1. Approval of the QAP, Revision 7.1 was received May 30, 2012.

2.4 Depth to Groundwater Data and Water Table Contour Map

Depth-to-groundwater measurements which were utilized for groundwater contours are included on the Quarterly Depth to Water Sheet at Tab C of this Report along with the kriged groundwater contour map for the current quarter generated from this data. All well levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each as indicated by the measurement dates in the summary sheet under Tab C. A copy of the kriged groundwater contour map generated from the previous quarter's data is provided under Tab D.

2.5 Laboratory Results

2.5.1 Copy of Laboratory Results

All analytical results were provided by EL. Table 1 lists the dates when analytical results were reported to the Quality Assurance ("QA") Manager for each well or other sample.

Results from analysis of samples collected for this quarter's nitrate investigation are provided under Tab G of this Report. Also included under Tab G are the results of analyses for duplicate samples and rinsate samples for this sampling effort, as identified in Table 1. See the Groundwater Monitoring Report and Chloroform Monitoring Report

for this quarter for nitrate and chloroform analytical results for the groundwater monitoring wells and chloroform investigation wells not listed in Table 1.

2.5.2 Regulatory Framework

As discussed in Section 1.0 above, the Request, Plan, and Consent Agreement each triggered a series of actions on DUSA's part. Potential surficial sources of nitrate and chloride have been described in the December 30, 2009 CIR and additional investigations into potential sources were completed. Pursuant to the Consent Agreement, the most recent version of the CAP was submitted to the Co-Executive Secretary on May 7, 2012. The CAP will describe future activities associated with the nitrate in groundwater. This quarterly report documents the continued monitoring consistent with the program described in the initial Nitrate Contamination Investigation Report submitted in 2009. The monitoring program and reporting requirements set forth in the 2009 Contamination Investigation report will remain in effect until further notice and completion of the CAP.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The Mill QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the QAP. As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and QC review of laboratory data methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures ("SOPs") is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check field data QA/QC, holding times, receipt temperature and laboratory data QA/QC are discussed in Sections 3.4.1 through 3.4.7 below.

The analytical laboratory has provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference ("NELAC") certification and reporting protocol. The Analytical Laboratory QA/QC Summary Reports, including copies of the Mill's Chain of Custody and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tab G. Results of review of the laboratory QA/QC information are provided under Tab H and discussed in Section 3.4, below.

3.1 Field QC Samples

The following QC samples were generated by Mill personnel and submitted to the analytical laboratory in order to assess the quality of data resulting from the field sampling program.

Field QC samples for the nitrate investigation program consist of one field duplicate sample for each 20 samples, one DI Field Blank ("DIFB") and equipment rinsate samples.

During the quarter, two duplicate samples were collected as indicated in Table 1. The duplicates were sent blind to the analytical laboratory and analyzed for the same parameters as the nitrate wells.

Rinsate samples were also collected at the beginning of the sampling period and at the beginning of each day of sampling from the decontaminated pump used for purging and sampling. Rinsate samples were labeled with the name of the subsequently sampled well with a terminal letter "R" added (e.g. TWN-7R). During the quarter three rinsate samples were collected and were sent to the analytical laboratory and analyzed for the same parameters as the nitrate wells. The results of these analyses are included with the routine analyses under Tab G.

3.2 Adherence to Mill Sampling SOPs

On a review of adherence by Mill personnel to the existing sampling SOPs, the QA Manager observed that QA/QC requirements established in the QAP were being adhered to and that the SOPs were implemented, except as noted below.

3.3 Analyte Completeness Review

All analyses required by the GWDP for nitrate monitoring for the period were performed.

3.4 Data Validation

The QAP and GWDP (July 14, 2011) identify the data validation steps and data QC checks required for the nitrate monitoring program. Consistent with these requirements, the QA Manager performed the following evaluations: a field data QA/QC evaluation, a holding time evaluation, an analytical method check, a reporting limit evaluation, a QC evaluation of sample duplicates, a QC evaluation of control limits for analysis and blanks, a receipt temperature evaluation, and a rinsate evaluation. Because no VOCs are analyzed for the nitrate contamination investigation, no trip blanks are required in the sampling program. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab H.

3.4.1 Field Data QA/QC Evaluation

The QA Manager performs a review of all field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and stability of five parameters: conductance, pH, temperature, redox potential, and turbidity. Review of the Depth to Water data confirms that all depth measurements used for development of groundwater contour maps were conducted within a five-day period of each other. The results of this quarter's review are provided under Tab H.

Based upon this review, all well locations conformed to the QAP requirement to evacuate two well casing volumes before sampling except TWN-2, TWN-3, TWN-7, TWN-9, TWN-14, TWN-15, and TWN-17. These seven wells were all pumped to dryness before two casing volumes were evacuated and more than one set of field parameters could be collected. In each case, representative samples of formation water were collected after the wells were allowed to recover. Piezometers 1, 2, and 3 were not pumped, and were sampled directly after measurement of one set of parameters. Two casing volumes were pumped from TWN-10 before it was purged to dryness; however, only one set of field parameters were collected prior to TWN-10 being pumped dry.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water for the quarterly sampling programs to the nearest 0.01 foot.

All field parameters for all wells were within the QAP required limits, as indicated below.

The review of the field sheets for compliance with QAP requirements resulted in the observations noted below. The QAP requirements in Section 6.2.7 specifically state that field parameters must have stabilized to within 10% over at least 2 consecutive measurements. The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units (“NTU”) prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements must be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU below are included for information purposes only.

- Fifteen well measurements and the measurements from Piezometers 2 and 3 exceeded the QAP’s 5 NTU turbidity goal as noted in Tab H. All turbidity RPD’s met the QAP Requirement to stabilize within 10%.

DUSA’s letter to DRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DRC’s subsequent correspondence dated June 1, 2010 and June 24, 2010, DUSA has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. Redevelopment results will be discussed with DRC in an effort to come to a consensus regarding turbidity considerations for the nitrate wells at the Mill site.

3.4.2 Holding Time Evaluation

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided in Tab H. All samples were received and analyzed within the required holding time.

3.4.3 Receipt Temperature Evaluation

Chain of Custody sheets were reviewed to confirm compliance with the QAP requirement in QAP Table 1 that samples be received at 6°C or lower. Sample temperatures checks are provided in Tab H. All samples were received within the required temperature limit.

3.4.4 Analytical Method Checklist

All analytical methods reported by the laboratory were checked against the required methods enumerated in the QAP. Analytical method checks are provided in Tab H. All methods were consistent with the requirements of the QAP.

3.4.5 Reporting Limit Evaluation

All analytical method reporting limits reported by the laboratory were checked against the reporting limits enumerated in the QAP. Reporting Limit Checks are provided in Tab H. All analytes were measured and reported to the required reporting limits, with the exception of 9 samples (8 samples and 1 duplicate) that had increased reporting limits due to matrix interference or required dilution due to the sample concentration. However, in all of those cases the analytical results were greater than the reporting limit used.

3.4.6 QA/QC Evaluation for Sample Duplicates

Section 9.1.4 a) of the QAP states that RPDs will be calculated for the comparison of duplicate and original field samples. The QAP acceptance limits for RPDs between the duplicate and original field sample is less than or equal to 20% unless the measured results (described as activities in the QAP) are less than 5 times the required detection limit. This standard is based on the EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994, 9240.1-05-01 as cited in the QAP. The RPDs are calculated for all duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits. However, data will be considered noncompliant only when the results are greater than 5 times the required detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

All duplicate results were within a 20% RPD. Results of the RPD test are provided in Tab H.

3.4.7 Rinsate Check

Rinsate checks are provided in Tab H. A review of the analytical results reported for rinsate samples indicated that one of the rinsate samples had a low level detection of nitrate at 0.2 mg/L nitrate.

A comparison of the rinsate sample concentration levels to the QAP requirements -- that rinsate sample concentrations be one order of magnitude lower than that of the actual well -- indicated that the rinsate sample had concentrations of nitrate above this conformance level.

The nitrate concentration in the rinsate sample is just slightly above the detection limit and is not dependent on or affected by the previous sample concentrations. This indicates that the contamination is due to some external factor such as the nitric acid rinse during the decontamination process rather than cross-contamination from the purging process.

However, based on the above findings, for this current quarter's data, the presence of nitrate in the rinsate sample does not affect the validity or utility of the groundwater data for the following reasons:

- For the one well in which the preceding rinsate sample levels exceeded the conformance criterion, the nitrate concentrations in the well and the rinsate samples were significantly lower than the GWDP GWCL of 10.0 mg/L for nitrate.
- Low level rinsate samples are indicative of potential false positive results in the low level sample results. Higher level sample results could potentially be biased high. Both situations are a more conservative approach to the assessment of sample results because a high bias means that reported results for this analyte will tend to be more conservative or higher than actual concentrations.

Complete assessment of the nitrate detections in the rinsate samples cannot be completed until the nitric acid rinse is removed from the decontamination process. To address the likely nitric acid contamination, DUSA has submitted a revised QAP (Revision 7.1) in which the nitric acid rinse step has been removed from the decontamination procedure when samples are not collected for heavy metals. UDEQ provided approval of QAP, Revision 7.1 on May 30, 2012. DUSA will remove the nitric acid step from the decontamination procedure and has initiated the assessment of the effect of this removal as of May 31, 2012.

If nitrate is detected in rinsate samples after the removal of the nitric acid wash from the decontamination procedure an investigation into the possible causes will be completed including but not limited to review of the laboratory procedures, split analysis of rinsate samples, and an investigation into the DI system. It is important to note that an appropriate DI system has been identified. Installation is scheduled to follow construction of other capital improvements in the Mill in late 2012 or early 2013.

Corrective actions for this issue are described in Section 5.1.

3.4.8 Other Laboratory QA/QC

Section 9.2 of the QAP requires that the laboratory's QA/QC Manager check the following items in developing data reports: (1) sample preparation information is correct and complete, (2) analysis information is correct and complete, (3) appropriate Analytical Laboratory procedures are followed, (4) analytical results are correct and complete, (5) QC samples are within established control limits, (6) blanks are within QC limits, (7) special sample preparation and analytical requirements have been met, and (8) documentation is complete. In addition to other laboratory checks described above, DUSA's QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm

that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided in Tab H.

All lab QA/QC results met these specified acceptance limits except as noted below.

The QAP Section 8.1.2 requires that an MS/MSD (referred to as Duplicate Spike [Matrix spike] in the QAP) pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on DUSA samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the QAP requirement to analyze an MS/MSD pair with each analytical batch was met. While the QAP does not require it, the recoveries were reviewed for compliance with the laboratory established acceptance limits. The QAP does not require this level of review, and the results of this review are provided for information only.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for all quarterly nitrate samples are within acceptable laboratory limits for all regulated compounds as indicated in Tab H. The QAP requirement to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries were acceptable which indicate that the analytical system was operating properly.

The QAP Section 8.1.2 requires that each analytical batch shall be accompanied by a reagent blank. All analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank is prepared for all analytical methods. The information from the Laboratory QA/QC Summary Reports indicates that the method blanks did not contain detections of any target analytes above the RL.

4.0 INTERPRETATION OF DATA

4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions.

4.1.1 Current Site Groundwater Contour Map

As stated above, a listing of groundwater level readings for the current quarter (shown as depth to groundwater in feet) is included under Tab C. The data from this tab has been interpreted (kriged) and plotted in a water table contour map, provided under the same tab. The contour map is based on the current quarter's data for all wells.

4.1.2 Comparison of Current Groundwater Contour Map to Groundwater Contour Map for Previous Quarter

The groundwater contour maps for the Mill site for the previous quarter, as submitted with the Nitrate Monitoring Report for the previous quarter, are attached under Tab D.

A comparison of the water table contour maps for the current (first) quarter of 2012 to the water table contour maps for the previous quarter (fourth quarter of 2011) indicates similar patterns of drawdown related to pumping of MW-4, MW-26, TW4-4, TW4-19 and TW4-20. Water levels and water level contours for the site have not changed significantly since the last quarter, except for a few locations. As discussed in Section 4.1.1, pumping at TW4-4, which began in the first quarter of 2010, has depressed the water table near TW4-4, but a well-defined cone of depression is not yet evident, likely due to variable permeability conditions near TW4-4 and the low water level at adjacent well TW4-14.

Reported increases in water levels of approximately 7 feet occurred in recently installed well TW4-27 and of approximately 5 feet occurred in well MW-37. Reported increases in water levels of approximately 9 feet occurred in pumping well TW4-20 and of approximately 8 feet occurred in pumping well MW-26. The water level changes at pumping wells MW-4, TW4-4, and TW4-19 were less than 5 feet.

Water level fluctuations at pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are due in part to fluctuations in pumping conditions just prior to and at the time the measurements are taken. The largest decrease (increase in drawdown) of approximately 1 foot occurred in well TW4-4 and the largest increase (decrease in drawdown), of approximately 9 feet, occurred in well TW4-20. The reported water level at well MW-37 during the current quarter is similar to the reported third quarter, 2011 water level, and the water level at TW4-27 is similar to that reported at the time of installation. Reported water levels at both wells in the previous quarter were lower than typical. The decrease in water level in TW4-27 in the fourth quarter of 2011 is due to the fact that the water level in that well was measured immediately following development activities prior to complete stabilization of the water level in the well.

4.1.3 Hydrographs

Attached under Tab E are hydrographs showing groundwater elevation in each nitrate contaminant investigation monitor well over time.

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

Attached in Tab F are tables showing depth to groundwater measured and groundwater elevation over time for each of the wells listed in Section 2.1.1 above.

4.2 Review of Analytical Results

4.2.1 Current Nitrate and Chloride Isoconcentration Maps

Included under Tab I of this Report are current nitrate and chloride iso-concentration maps for the Mill site. Nitrate iso-contours start at 5 mg/L and chloride iso-contours start at 100 mg/L because those values appear to separate the plumes from background. All nitrate and chloride data used to develop these iso-concentration maps are from the current quarter's sampling events.

4.2.2 Nitrate and Chloride Concentration Trend Data and Graphs

Attached under Tab J is a table summarizing values for nitrate and chloride for each well over time. Some data (MW-18, MW-19 and the Frog Pond) were not sampled this period but the historical data are included for information purposes.

Attached under Tab K are graphs showing nitrate and chloride concentration plots in each monitor well over time.

4.2.3 Interpretation of Analytical Data

Generally, the shapes of the nitrate and chloride plumes appear to be stable and unchanged for the last nine quarters. The nitrate and chloride plumes maintain their general geographic association and it is still possible to separate the plumes into a segment northeast of the wildlife ponds and a southwest segment at the mill site. Nitrate and chloride concentrations in samples from the downgradient edge of the plumes (in the vicinity of tailings impoundment monitoring wells MW-30 and MW-31) have remained essentially unchanged (current concentration within one standard deviation of the average of the previous eight quarters and within laboratory variation) and the plume does not appear to be migrating in the downgradient direction.

In general, nitrate concentrations in nitrate monitoring wells are similar to values from last quarter or have declined (Table 2). The nitrate concentration measured in TWN-10 of 0.8 mg/L is 300% higher than the 0.2 mg/L measured last quarter but lower than the 1.5 mg/L concentration that has previously been measured in samples from this well. Some chloride concentrations are up slightly from last quarter but, with one exception, are within the range of previously measured concentrations. The measured chloride concentration in PIEZ-1 of 78 mg/L is higher than the previous high of 60 mg/L (Table 3). The current quarter's data continue to support the conclusion in the Nitrate Contamination Investigation Report that the nitrate and chloride at the Mill site are co-extensive and appear to originally come from the same source.

Note that samples from recently installed chloroform monitoring wells TW4-26 and TW4-27 had measured nitrate concentrations that are higher than 10 mg/L. However, nitrate concentrations in these wells are clearly separated from the nitrate/chloride plume at the Mill site by many wells that are below 10 mg/L or are nondetect for nitrate,

including but not limited to, TW4-23, MW-32 and TW4-16. Thus, nitrate in TW4-26 and TW4-27 appears to be isolated from the plume at the Mill site, in the same way that the relatively small nitrate plumes at TWN-09 and TWN-17 are isolated from the plume at the Mill site.

5.0 CORRECTIVE ACTION REPORT

Necessary corrective actions identified during the current monitoring period are described below.

5.1 Identification and Definition of the Problem

Rinsate Nitrate Levels

One rinsate sample has nitrate levels that most likely result from decontamination procedures.

5.2 Assignment of Responsibility for Investigation of the Problem

The problem has been investigated by the QA Manager.

5.3 Investigation and Determination of Cause of the Problem

To address the nitric acid contamination, DUSA requested in the revised QAP the removal of the nitric acid rinse step when samples are not collected for heavy metals. DUSA received approval of the revised QAP on May 30, 2012.

5.4 Determination of a Corrective Action to Eliminate the Problem

The corrective action is the removal of the nitric acid rinse from the decontamination procedures when samples are not collected for heavy metals.

5.5 Assigning and Accepting Responsibility for Implementing the Corrective Action

It will be the responsibility of the Director, Compliance and Permitting to implement the following corrective action.

The corrective action is the removal of the nitric acid rinse from the decontamination procedures when samples are not collected for heavy metals.

5.6 Implementing the Corrective Action and Evaluating Effectiveness

Removal of the nitric acid rinse from the decontamination procedure has been implemented as of May 31, 2012.

5.7 Verifying That the Corrective Action Has Eliminated the Problem

Verification that nitrate source(s) have been removed is underway. DUSA is currently evaluating whether the removal of the nitric acid rinse from the decontamination procedure has effectively removed the nitrate source in the rinsate blank samples.

5.8 Assessment of Previous Quarter's Corrective Actions

Chloride was present in the rinsate blanks and in the DIFB for the fourth quarter 2011. To address previous nitrate contamination in the nitrate and chloroform sampling programs, an additional rinse with 55-gallons of DI water has previously been added to the decontamination process. DUSA believes that the source for the chloride present in the rinsate blanks in the fourth quarter appears to be related to the increasing volume of DI water used in the rinsate process due to the second 55-gallon rinse of the portable pump with DI water. The chloride present in the rinsate blanks is present in the DI water and is not the result of inadequate decontamination of the purging pump. The chloride contamination in the DI water is most likely the result of chlorination of the intake water (from the potable water supply source) used for the DI system. At high volume use rates, the DI system appears to be unable to remove all of the chloride introduced with the DI intake (supply) water.

To address the issue, the QA Manager and the mill staff have identified an appropriate DI system. Installation is scheduled to follow construction of other capital improvements in the Mill in late 2012 or early 2013.

Verification that chloride contamination has been eliminated will occur upon completion of the system upgrades and receipt of at least the two quarters of data. If chloride contamination persists then additional sources will be researched and the investigation will continue.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Generally, the shapes of the nitrate and chloride plumes appear to be stable and unchanged for the last nine quarters. The nitrate and chloride plumes maintain their general geographic association and it is still possible to separate the plumes into a segment northeast of the wildlife ponds and a southwest segment at the mill site.

Nitrate and chloride concentrations in samples from the downgradient edge of the plumes (in the vicinity of tailings impoundment monitoring wells MW-30 and MW-31) have remained essentially unchanged (current concentration within one standard deviation of the average of the previous eight quarters and within laboratory variation) and the plume does not appear to be migrating in the downgradient direction.

The current quarter's data continue to support the conclusion in the Nitrate Contamination Investigation Report that the nitrate and chloride at the Mill site are co-extensive and appear to originally come from the same source.

7.0 ELECTRONIC DATA FILES AND FORMAT

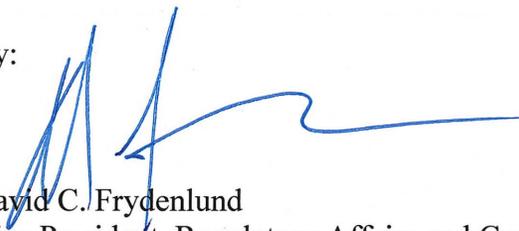
DUSA has provided to the Co-Executive Secretary an electronic copy of all laboratory results for groundwater quality monitoring conducted under the nitrate contaminant investigation during the Quarter, in Comma Separated Values (“CSV”) format. A copy of the transmittal e-mail is included under Tab L.

8.0 SIGNATURE AND CERTIFICATION

This document was prepared by Denison Mines (USA) Corp. on May 31, 2012.

DENISON MINES (USA) CORP.

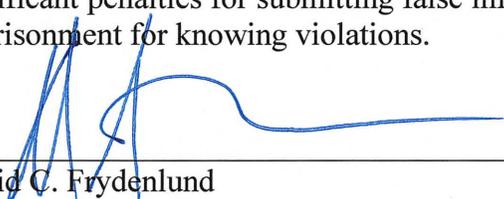
By:



David C. Frydenlund
Vice President, Regulatory Affairs and Counsel

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



David C. Frydenlund
Vice President, Regulatory Affairs and Counsel
Denison Mines (USA) Corp.

Tables

Table 1
Summary of Well Sampling and Constituents for the Period

Well	Sample CollectionDate	Date of Lab Report
Piezometer 01	1/11/2012	1/23/2012
Piezometer 02	1/11/2012	1/23/2012
Piezometer 03	1/11/2012	1/23/2012
TWN-01	1/9/2012	1/23/2012
TWN-02	1/12/2012	1/23/2012
TWN-03	1/12/2012	1/23/2012
TWN-04	1/9/2012	1/23/2012
TWN-05	1/9/2012	1/23/2012
TWN-06	1/10/2012	1/23/2012
TWN-07	1/11/2012	1/23/2012
TWN-08	1/9/2012	1/23/2012
TWN-08R	1/9/2012	1/23/2012
TWN-09	1/12/2012	1/23/2012
TWN-10	1/10/2012	1/23/2012
TWN-11	1/10/2012	1/23/2012
TWN-12	1/10/2012	1/23/2012
TWN-12R	1/10/2012	1/23/2012
TWN-13	1/9/2012	1/23/2012
TWN-14	1/11/2012	1/23/2012
TWN-15	1/11/2012	1/23/2012
TWN-16	1/10/2012	1/23/2012
TWN-17	1/12/2012	1/23/2012
TWN-17R	1/11/2012	1/23/2012
TWN-18	1/10/2012	1/23/2012
TWN-19	1/10/2012	1/23/2012
TWN-65	1/10/2012	1/23/2012
TWN-60	1/11/2012	1/23/2012
TWN-70	1/10/2012	1/23/2012
UWLP	1/11/2012	1/23/2012

Note: All wells were sampled for Nitrate and Chloride

TWN-60 is a DI Field Blank

TWN-65 is a duplicate of TWN-10, and TWN-70 is a duplicate of TWN-11.

UWLP is a sample from the Upper Wildlife Pond

Table 2
Nitrate (mg/L)

Location	4th Q 2009	1st Q 2010	2nd Q 2010	3rd Q 2010	4th Q 2010	1st Q 2011	2nd Q 2011	3rd Q 2011	4th Q 2011	1st Q 2012	% Difference 4thQ 2011 and 1st Q 2012
Piez 1	NA	NA	7.2	6.8	6.5	7	6.8	7	6.6	7.1	8
Piez 2	NA	NA	0.6	0.6	0.2	0.3	0.3	0.1	0.1	0.1	0
Piez 3	NA	1.7	1.6	1.8	1.8	1.8	1.7	1.8	1.7	1.8	6
TWN 1	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	20
TWN 2	20.8	62.1	69	69	48	43	40	33	33	31	-6
TWN 3	29	25.3	26	27	24	24	26	25	25	25	0
TWN 4	0.4	0.9	1	0.9	1.0	0.9	0.9	1.1	0.9	0.9	0
TWN 5	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	-33
TWN 6	1.4	1.5	1.4	1.4	1.2	1.1	1.5	1.1	1.4	1.2	-14
TWN 7	0.1	0.8	1.2	1.6	1.0	1.3	1.7	0.7	2.2	2.3	5
TWN 8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0
TWN 9	12	7.6	7.7	10.7	8	9.5	10	11	10.9	12.2	12
TWN 10	1.4	1.5	1	0.2	1.3	0.3	1.2	0.1	0.2	0.8	300
TWN 11	1.3	1.4	1.3	1.4	1.4	1.4	1.4	0.1	1.6	1.6	0
TWN 12	0.5	0.7	0.8	0.7	0.7	4.2	1	0.6	1.2	0.9	-25
TWN 13	0.5	0.1	0.1	0.2	0.4	1.6	<0.1	<0.1	<0.1	<0.1	0
TWN 14	3.4	2.9	2.9	3.5	4.2	3.7	3.5	3.5	3.9	3.5	-10
TWN 15	1.1	0.7	1	1	1.2	1.4	1.6	1.6	1.3	1.5	15
TWN 16	1	1.2	1.3	2.6	2	4.6	1.6	2.4	2.6	2.8	8
TWN 17	6.7	10.4	11	8.9	8	8.6	9	8.5	8.1	8.7	7
TWN 18	1.3	1.6	1.8	1.8	1.6	1.4	1.8	1.8	1.9	1.9	0
TWN 19	7.4	7.2	6.2	7.2	7	7	6.9	7.1	6.5	7	8

Red value indicates nondetect

Table 3
Chloride (mg/L)

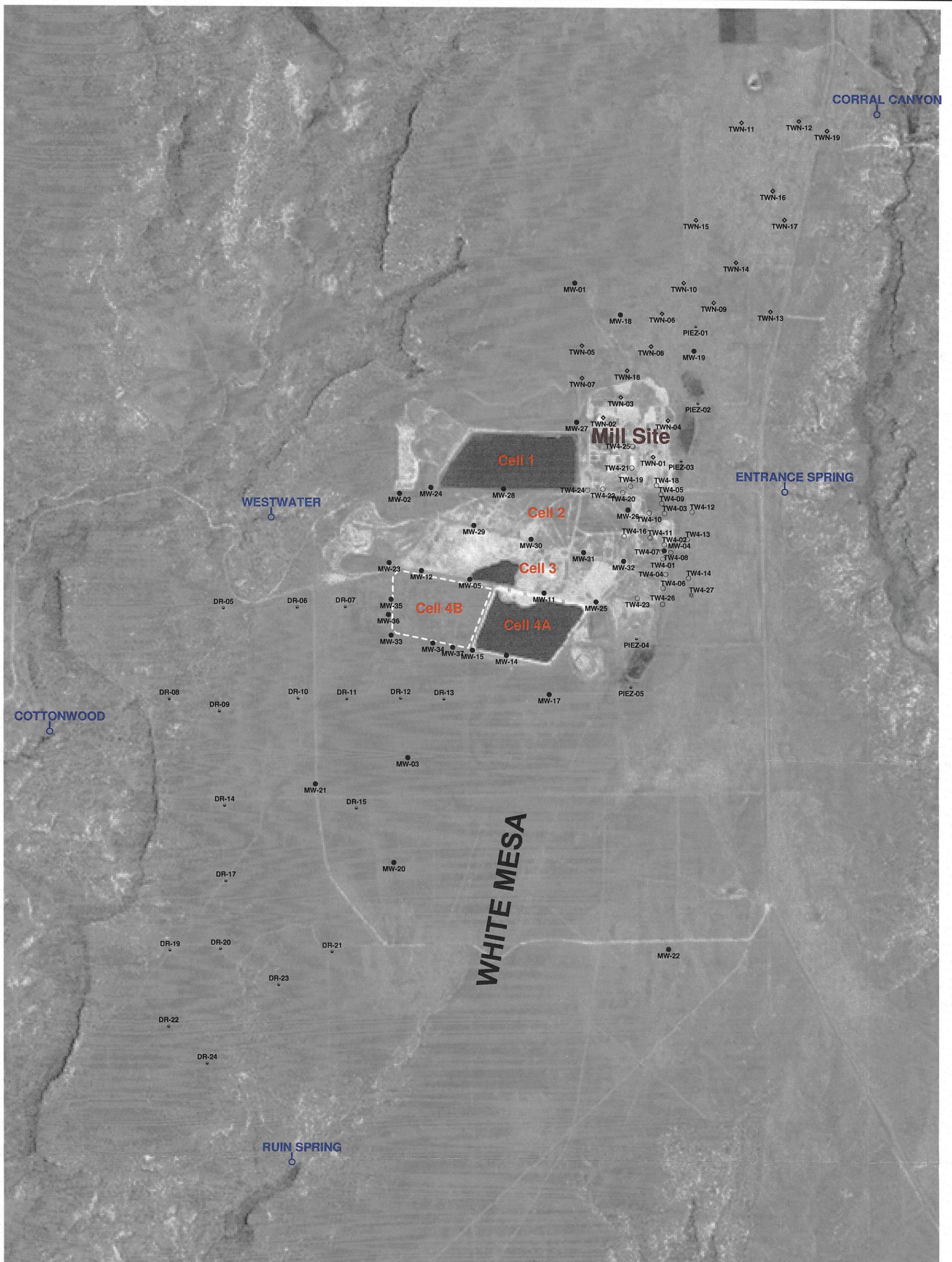
Location	4th Q 2009	1st Q 2010	2nd Q 2010	3rd Q 2010	4th Q 2010	1st Q 2011	2nd Q 2011	3rd Q 2011	4th Q 2011	1st Q 2012	% Difference 4th Q 2011 and 1st Q 2012
Piez 1	NA	NA	52	52	60	60	58	53	55	78	42
Piez 2	NA	NA	8	8	6	9	8	9	8	9	13
Piez 3	NA	116	36	35	25	40	35	61	12	20	67
TWN 1	18	17	20	19	14	17	19	14	10	15	50
TWN 2	55	85	97	104	93	93	85	74	76	86	13
TWN 3	106	111	118	106	117	138	128	134	129	143	11
TWN 4	11	22	22	19	21	21	21	35	20	20	0
TWN 5	48	43	44	43	45	47	44	44	45	45	0
TWN 6	21	19	22	73	21	18	22	17	21	20	-5
TWN 7	7	6	6	7	4	6	6	5	6	5	-17
TWN 8	12	11	11	11	9	13	10	18	10	11	10
TWN 9	205	183	175	210	172	217	192	208	134	202	51
TWN 10	26	54	30	21	28	40	28	28	33	44	33
TWN 11	74	73	72	76	72	84	76	76	76	69	-9
TWN 12	109	113	106	112	103	87	109	102	87	104	20
TWN 13	83	47	49	53	57	103	49	49	48	46	-4
TWN 14	32	24	30	26	28	24	30	25	27	26	-4
TWN 15	78	43	39	36	38	43	49	47	38	38	0
TWN 16	39	35	35	35	30	34	39	31	34	33	-3
TWN 17	152	78	87	66	65	90	81	74	71	79	11
TWN 18	57	42	63	64	59	61	67	65	60	64	7
TWN 19	125	118	113	113	107	114	120	113	108	114	6

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- Tab D Kriged Previous Quarter Groundwater Contour Map
- Tab E Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells
- Tab F Depths to Groundwater and Elevations Over Time for Nitrate Monitoring Wells
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Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- MW-5 ● perched monitoring well
- TW4-12 ○ temporary perched monitoring well
- TWN-10 ◇ temporary perched nitrate monitoring well
- PIEZ-1 ● perched piezometer
- TW4-27 ☼ temporary perched monitoring well installed October, 2011
- RUIN SPRING ○ seep or spring



1 mile



**HYDRO
GEO
CHEM, INC.**

**WHITE MESA SITE PLAN
SHOWING LOCATIONS OF PERCHED
WELLS AND PIEZOMETERS**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/Uwelloc12.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order

1st Quarter 2012

81.24

Nitrate Samples					
Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth	Total Depth

Rinsate Samples		
Name	Date	Sample

TWN-8	0.1	1-9-12	0 1052		145.5
TWN-13	0.1	1-9-12	0 1207		120
TWN-10	0.2	1-10-12	0 0630		105
TWN-5	0.3	1-9-12	0 1325		150
TWN-1	0.5	1-9-12	0 1407		112.5
TWN-4	0.9	1-9-12	0 1454		125.7
TWN-12	1.2	1-10-12	0 0741		110
TWN-15	1.3	1-11-12	0 0934		155
TWN-6	1.4	1-10-12	0 0911		130
TWN-11	1.6	1-10-12	0 1003		142
TWN-18	1.9	1-10-12	0 1052		145
TWN-7	2.2	1-11-12	0 0944		105
TWN-16	2.6	1-10-12	0 1246		100
TWN-14	3.9	1-11-12	0 0955		135
TWN-19	6.5	1-10-12	0 1419		110
TWN-17	8.1	1-12-12	0 0650		110
TWN-9	10.9	1-12-12	0 0700		97
TWN-3	25.0	1-12-12	0 0710		96
TWN-2	33.0	1-12-12	0 0718		96
Piez 1	6.6	1-11-12	1246		
Piez 2	0.1	1-11-12	1225		
Piez 3	1.7	1-11-12	0 1210		
wildlife	ND	1-11-12	1234		

TWN-8R	1-9-12	1025
TWN-13R		
TWN-10R		
TWN-5R		
TWN-1R		
TWN-4R		
TWN-12R	1-10-12	0715
TWN-15R		
TWN-6R		
TWN-11R		
TWN-18R		
TWN-7R		
TWN-16R		
TWN-14R		
TWN-19R		
TWN-17R	1-11-12	0710
TWN-9R		
TWN-3R		
TWN-2R		

Samplers: _____

TWN 65 1-10-12 0630
 TWN 70 1-10-12 1003 - TWN 11
 TWN 60 1-11-12 1350



ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): UWLP

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-11-2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) N/A

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event Picz-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 248

pH of Water (avg) 8.72

Well Water Temp. (avg) 5.48

Redox Potential (Eh) 244

Turbidity 2.5

Weather Cond. Sunny and Windy

Ext'l Amb. Temp. °C (prior sampling event) 1°

Time	<u>1233</u>	Gal. Purged	<u>0</u>
Conductance	<u>248</u>	pH	<u>8.72</u>
Temp. °C	<u>5.48</u>		
Redox Potential Eh (mV)	<u>244</u>		
Turbidity (NTU)	<u>2.5</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1229. Tanner and Garrin Present to collect samples.
 Samples were collected at 1234 by Grab samples.
 Left site at 1235. Had to break ice to be able to sample.
 Pond has very little water in it.
 disturbed water a bit.

Do not touch this cell (SheetName)



ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): Piez- 01

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1/11/2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) N/A

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event UWLP

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 61.60

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2155

pH of Water (avg) 7.79

Well Water Temp. (avg) 11.82

Redox Potential (Eh) 275

Turbidity 3.6

Weather Cond. Sunny and Windy

Ext'l Amb. Temp. °C (prior sampling event) 1°

Time	<u>1245</u>	Gal. Purged	<u>0</u>
Conductance	<u>2155</u>	pH	<u>7.79</u>
Temp. °C	<u>11.82</u>		
Redox Potential Eh (mV)	<u>275</u>		
Turbidity (NTU)	<u>3.6</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1241. Tanner and Garrin present to collect samples. samples were bailed at 1246. Left site at 1249

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1-11-2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): N/A

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: Piez-03

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 19.30

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 532.9

pH of Water (avg): 8.97

Well Water Temp. (avg): 11.70

Redox Potential (Eh): 172

Turbidity: 8.7

Weather Cond.: Sunny and Windy

Ext'l Amb. Temp. °C (prior sampling event): 1°

Time	<u>1223</u>	Gal. Purged	<u>0</u>
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1223</u>	Gal. Purged	<u>0</u>
Conductance	<u>532.9</u>	pH	<u>8.97</u>
Temp. °C	<u>11.70</u>		
Redox Potential Eh (mV)	<u>172</u>		
Turbidity (NTU)	<u>8.7</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1219. Tanner and Garrin present to collect samples. Samples were bailed at 1225. Left site at 1227

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1/11/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): N/A

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: JWN-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 40.49

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 3071

pH of Water (avg): 11.88

Well Water Temp. (avg): 10.40

Redox Potential (Eh): 193

Turbidity: 17.1

Weather Cond.: Sunny and Windy

Ext'l Amb. Temp. °C (prior sampling event): 1°

Time	<u>1209</u>	Gal. Purged	<u>0</u>
Conductance	<u>3071</u>	pH	<u>11.88</u>
Temp. °C	<u>10.40</u>		
Redox Potential Eh (mV)	<u>193</u>		
Turbidity (NTU)	<u>17.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

6:40 Arrived on site at 1204. Tanner and Garrin present to collect samples. Samples were bailed at 1210. PH was High. Left site at 1215

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-01 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-9-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-05

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 112.50

Depth to Water Before Purging 51.88 Casing Volume (V) 4" Well: 39.58 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 834 pH of Water (avg) 7.17

Well Water Temp. (avg) 14.63 Redox Potential (Eh) 284 Turbidity 140

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 4°

Time	<u>1404</u>	Gal. Purged	<u>55</u>
Conductance	<u>825</u>	pH	<u>7.17</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>286</u>		
Turbidity (NTU)	<u>138</u>		

Time	<u>1405</u>	Gal. Purged	<u>66</u>
Conductance	<u>837</u>	pH	<u>7.17</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>140</u>		

Time	<u>1406</u>	Gal. Purged	<u>77</u>
Conductance	<u>838</u>	pH	<u>7.18</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>141</u>		

Time	<u>1407</u>	Gal. Purged	<u>88</u>
Conductance	<u>838</u>	pH	<u>7.19</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>282</u>		
Turbidity (NTU)	<u>142</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1356. Purge began at 1359. Purged well for a total of 8 minutes. Water was murky. Purge ended and samples were collected at 1407. Depth to water was 75.59, Left site at 1410

Tanner and Garrin Present for Purge and sampling event

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-02 Sampler Name and initials: Tanner Holliday/JH

Date and Time for Purging: 1-11-2012 and Sampling (if different): 1-12-2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate Prev. Well Sampled in Sampling Event: TWN-03

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 22.37 Casing Volume (V) 4" Well: 48.08 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2667 pH of Water (avg): 6.40

Well Water Temp. (avg): 13.84 Redox Potential (Eh): 296 Turbidity: 11.6

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0919</u>	Gal. Purged	<u>55</u>
Conductance	<u>2667</u>	pH	<u>6.40</u>
Temp. °C	<u>13.84</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>11.6</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0911. Tanner and Garrin present for purge. Purge began at 0914. Purged well for a total of 5 minutes. Purged well dry. water was mostly clear. Purge ended at 0919. Left site at 0923

Arrived on site at 0713. Tanner and Garrin present to collect samples. depth to water was 22.10. Samples were bailed at 0718. Left site at 0720

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event:

Location (well name): Sampler Name and initials:

Date and Time for Purging: and Sampling (if different):

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet):

Sampling Event: Prev. Well Sampled in Sampling Event:

pH Buffer 7.0: pH Buffer 4.0:

Specific Conductance: μ MHOS/cm Well Depth(0.01ft):

Depth to Water Before Purging: Casing Volume (V) 4" Well: (.653h)
 3" Well: (.367h)

Conductance (avg): pH of Water (avg):

Well Water Temp. (avg): Redox Potential (Eh): Turbidity:

Weather Cond.: Ext'l Amb. Temp. °C (prior sampling event):

Time	<input type="text" value="0842"/>	Gal. Purged	<input type="text" value="39"/>
Conductance	<input type="text" value="2268"/>	pH	<input type="text" value="6.65"/>
Temp. °C	<input type="text" value="13.49"/>		
Redox Potential Eh (mV)	<input type="text" value="279"/>		
Turbidity (NTU)	<input type="text" value="100"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0836. Tanner and Garrin present for purge. Purge began at 0839. Purged well for a total of 3 minutes and 35 seconds. Purged well dry. Purge ended at 0842. Water was murky. Left site at 0845.
 Arrived on site at 0705. Tanner and Garrin present to collect samples. Depth to water was 32.95 samples were bailed at 0710. Left site at 0712

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-04 Sampler Name and initials: Tanner Holliday /TH

Date and Time for Purging 1-9-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-01

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 125.70

Depth to Water Before Purging 40.20 Casing Volume (V) 4" Well: 55.83 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1019 pH of Water (avg) 7.00

Well Water Temp. (avg) 14.28 Redox Potential (Eh) 271 Turbidity 295

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>1451</u>	Gal. Purged	<u>99</u>
Conductance	<u>1020</u>	pH	<u>7.00</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>300</u>		

Time	<u>1452</u>	Gal. Purged	<u>110</u>
Conductance	<u>1018</u>	pH	<u>7.01</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>295</u>		

Time	<u>1453</u>	Gal. Purged	<u>121</u>
Conductance	<u>1018</u>	pH	<u>7.00</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>290</u>		

Time	<u>1454</u>	Gal. Purged	<u>132</u>
Conductance	<u>1019</u>	pH	<u>7.00</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>295</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1439. Tanner and Garrin present for purge and sampling event. Purge began at 1442. Purged well for a total of 12 minutes. Water was murky with a light brown discolor. Purge ended and samples were collected at 1454. Depth to water was 41.19. Left site at 1458

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-05

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1-9-2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-10

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 150.00

Depth to Water Before Purging: 69.78

Casing Volume (V) 4" Well: 52.43 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3074

pH of Water (avg): 6.65

Well Water Temp. (avg): 14.49

Redox Potential (Eh): 305

Turbidity: 2.9

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 4°

Time	<u>1322</u>	Gal. Purged	<u>77</u>
Conductance	<u>3078</u>	pH	<u>6.63</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>307</u>		
Turbidity (NTU)	<u>3.1</u>		

Time	<u>1323</u>	Gal. Purged	<u>88</u>
Conductance	<u>3075</u>	pH	<u>6.65</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>306</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>1324</u>	Gal. Purged	<u>99</u>
Conductance	<u>3071</u>	pH	<u>6.66</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>305</u>		
Turbidity (NTU)	<u>2.9</u>		

Time	<u>1325</u>	Gal. Purged	<u>110</u>
Conductance	<u>3072</u>	pH	<u>6.67</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>305</u>		
Turbidity (NTU)	<u>2.9</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1311. Tanner and Garrin present for purge and sampling event. Purge began at 1315. Purged well for a total of 10 minutes. water was clear. Purge ended and samples were collected at 1325. Depth to water was 83.11
 Left site at 1328

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-06

Sampler Name and initials: Tanner Holliday /TH

Date and Time for Purging 1-10-2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-15

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 75.30

Casing Volume (V) 4" Well: 35.71 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1593

pH of Water (avg) 6.73

Well Water Temp. (avg) 14.33

Redox Potential (Eh) 350

Turbidity 19

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) -2°

Time	<u>0908</u>	Gal. Purged	<u>44</u>
Conductance	<u>1638</u>	pH	<u>6.71</u>
Temp. °C	<u>14.31</u>		
Redox Potential Eh (mV)	<u>355</u>		
Turbidity (NTU)	<u>20</u>		

Time	<u>0909</u>	Gal. Purged	<u>55</u>
Conductance	<u>1594</u>	pH	<u>6.72</u>
Temp. °C	<u>14.33</u>		
Redox Potential Eh (mV)	<u>354</u>		
Turbidity (NTU)	<u>19</u>		

Time	<u>0910</u>	Gal. Purged	<u>66</u>
Conductance	<u>1573</u>	pH	<u>6.74</u>
Temp. °C	<u>14.34</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>19</u>		

Time	<u>0911</u>	Gal. Purged	<u>77</u>
Conductance	<u>1568</u>	pH	<u>6.75</u>
Temp. °C	<u>14.33</u>		
Redox Potential Eh (mV)	<u>348</u>		
Turbidity (NTU)	<u>18</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0901. Tanner and Garrin present for purge and sampling event. Purge began at 0904. Purged well for a total of 7 minutes. water was mostly clear. Purge ended and samples were collected at 0911. Depth to water was 84.91 Left site at 0914

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-07 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-10-2012 and Sampling (if different) 1-11-2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-18

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 105.00

Depth to Water Before Purging 88.60 Casing Volume (V) 4" Well: 10.70 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1164 pH of Water (avg) 6.91

Well Water Temp. (avg) 13.77 Redox Potential (Eh) 347 Turbidity 185

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 2°

Time	<u>1203</u>	Gal. Purged	<u>8</u>
Conductance	<u>1164</u>	pH	<u>6.91</u>
Temp. °C	<u>13.77</u>		
Redox Potential Eh (mV)	<u>347</u>		
Turbidity (NTU)	<u>18.5</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1200. Tanner and Garrin present for purge. Purge began at 1203. Purged well for a total of 45 seconds. Purged well dry. water was mostly clear. Purge ended at 1204. Left site at 1206

Arrived on site at 0840. Tanner and Garrin present to collect samples. Depth to water was 91.88. Samples were bailed at 0940. Left site at 0946.

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-08 Sampler Name and initials: Tanner Holliday TH

Date and Time for Purging 1-9-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-08R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 145.50

Depth to Water Before Purging 61.69 Casing Volume (V) 4" Well: 54.72 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 2368 pH of Water (avg) 7.25

Well Water Temp. (avg) 14.28 Redox Potential (Eh) 159 Turbidity 2.4

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>1049</u>	Gal. Purged	<u>88</u>
Conductance	<u>2348</u>	pH	<u>7.32</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>2.6</u>		

Time	<u>1050</u>	Gal. Purged	<u>99</u>
Conductance	<u>2357</u>	pH	<u>7.22</u>
Temp. °C	<u>14.29</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>2.5</u>		

Time	<u>1051</u>	Gal. Purged	<u>110</u>
Conductance	<u>2369</u>	pH	<u>7.24</u>
Temp. °C	<u>14.29</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>2.4</u>		

Time	<u>1052</u>	Gal. Purged	<u>121</u>
Conductance	<u>2399</u>	pH	<u>7.22</u>
Temp. °C	<u>14.29</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>2.4</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1033. Tanner and Garrin present for purge and sampling event
 Purge began at 1041. Purged well for a total of 11 minutes. Water was clear throughout the purge. Purge ended and samples were collected at 1052. Depth to water was 83.99 Left site at 1055

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-08R

Sampler Name and initials: Tanner Holliday /TH

Date and Time for Purging: 1-9-2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 8.6

pH of Water (avg): 6.28

Well Water Temp. (avg): 5.29

Redox Potential (Eh): 468

Turbidity: 0

Weather Cond.: cloudy

Ext'l Amb. Temp. °C (prior sampling event): -4°

Time	<u>1022</u>	Gal. Purged	<u>170</u>
Conductance	<u>8.6</u>	pH	<u>6.28</u>
Temp. °C	<u>5.29</u>		
Redox Potential Eh (mV)	<u>468</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0647. Tanner and Garrin present for rinsate. Rinsate began at 1005. Pumped 50 Gallons of Acid Water, 50 Gallons soap water, 100 Gallons of DI water. Rinsate ended and samples were collected at 1025. Left site at 1027.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-09 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1-11-2012 and Sampling (if different): 1-12-2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate Prev. Well Sampled in Sampling Event: TWN-17

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging: 63.06 Casing Volume (V) 4" Well: 22.16 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2286 pH of Water (avg): 6.50

Well Water Temp. (avg): 13.73 Redox Potential (Eh): 325 Turbidity: 36.1

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0805</u>	Gal. Purged	<u>22</u>
Conductance	<u>2286</u>	pH	<u>6.50</u>
Temp. °C	<u>13.73</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>36.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0800, Tanner and Garrin present for purge. Purge began at 0803 Purged well for a total of 2 minutes. Purged well dry. Purge ended at 0805. water was murky. Left site at 0808

Arrived on site at 0654. Tanner and Garrin present to collect samples Depth to water was 63.30. Samples were bailed at 0700. Left site at 0702.

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-10 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-9-2012 and Sampling (if different) 1-10-2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-13

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm Well Depth(0.01ft): 105.00

Depth to Water Before Purging 81.02 Casing Volume (V) 4" Well: 15.65 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2687 pH of Water (avg) 3.62

Well Water Temp. (avg) 13.69 Redox Potential (Eh) 471 Turbidity 166

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 4°

Time	<u>1243</u>	Gal. Purged	<u>16</u>
Conductance	<u>2687</u>	pH	<u>3.62</u>
Temp. °C	<u>13.69</u>		
Redox Potential Eh (mV)	<u>471</u>		
Turbidity (NTU)	<u>166</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1238. Tanner and Garrin present to purge TW-10. Purge began at 1242. Purged well for a total of 1 minute and 30 seconds. Purged well dry. Purge ended at 1244. Left site at 1246. Water had a slight brown discolor.

Arrived on site at 0625. Tanner and Garrin present to collect samples. Depth to water was 81.80. Samples were bailed at 0630. Left site at 0632

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-11 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-10-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN 06

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging 70.30 Casing Volume (V) 4" Well: 46.82 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 2652 pH of Water (avg) 6.52

Well Water Temp. (avg) 13.45 Redox Potential (Eh) 301 Turbidity 2.1

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>1000</u>	Gal. Purged	<u>77</u>
Conductance	<u>2655</u>	pH	<u>6.52</u>
Temp. °C	<u>13.51</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1001</u>	Gal. Purged	<u>88</u>
Conductance	<u>2653</u>	pH	<u>6.53</u>
Temp. °C	<u>13.47</u>		
Redox Potential Eh (mV)	<u>303</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1002</u>	Gal. Purged	<u>99</u>
Conductance	<u>2650</u>	pH	<u>6.53</u>
Temp. °C	<u>13.43</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1003</u>	Gal. Purged	<u>110</u>
Conductance	<u>2650</u>	pH	<u>6.53</u>
Temp. °C	<u>13.41</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>2.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 = 11

Time to evacuate two casing volumes (2V)

T = 2V/Q = 8.51

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Lab N/A

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0949. Tanner and Garrin present for purge and sampling event. Purge began at 0953. Purged well for a total of 10 minutes. Water was clear. Purge ended and samples were collected at 1003. Depth to water was 92.31. Left site at 1007.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-12 Sampler Name and initials: Tanner Holliday / TH

Date and Time for Purging 1-10-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-12R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 29.12 Casing Volume (V) 4" Well: 52.81 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2462 pH of Water (avg) 6.98

Well Water Temp. (avg) 13.85 Redox Potential (Eh) 265 Turbidity 151

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) -4°

Time	<u>0738</u>	Gal. Purged	<u>88</u>
Conductance	<u>2474</u>	pH	<u>6.98</u>
Temp. °C	<u>13.82</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>153</u>		

Time	<u>0739</u>	Gal. Purged	<u>99</u>
Conductance	<u>2465</u>	pH	<u>6.99</u>
Temp. °C	<u>13.85</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>150</u>		

Time	<u>0740</u>	Gal. Purged	<u>110</u>
Conductance	<u>2458</u>	pH	<u>6.99</u>
Temp. °C	<u>13.87</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>151</u>		

Time	<u>0741</u>	Gal. Purged	<u>121</u>
Conductance	<u>2454</u>	pH	<u>6.98</u>
Temp. °C	<u>13.87</u>		
Redox Potential Eh (mV)	<u>258</u>		
Turbidity (NTU)	<u>153</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0725. Tanner and Garrin present for purge and sampling event. Purge began at 0730. Purged well for a total of 11 minutes. water was an orange color. ~~to it.~~ water slowly cleared throughout purge but never totally cleared. Purge ended and samples were collected 0741. Depth to water was 101.31. Left site at 0744

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2012

Location (well name): TWN-12R

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-10-2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-04

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 13.90

pH of Water (avg) 5.08

Well Water Temp. (avg) 9.25

Redox Potential (Eh) 446

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) -5°

Time	<u>0713</u>	Gal. Purged	<u>180</u>
Conductance	<u>13.90</u>	pH	<u>5.08</u>
Temp. °C	<u>9.25</u>		
Redox Potential Eh (mV)	<u>446</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0651. Tanner and Garrin present for rinsate. Rinsate started at 0655. Pumped 50 Gallons of Acid water, 50 Gallons of Soap water, and 100 Gallons of DI water. Rinsate ended and samples were collected at 0715. Left site at 0717 PH was a little low. Lab is changing out DI Filters.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2012

Location (well name): TWN-13 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-9-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-08

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging 46.20 Casing Volume (V) 4" Well: 48.19 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1223 pH of Water (avg) 7.63

Well Water Temp. (avg) 14.44 Redox Potential (Eh) 211 Turbidity 58

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>1240</u>	Gal. Purged	<u>77</u>
Conductance	<u>1217</u>	pH	<u>7.62</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>218</u>		
Turbidity (NTU)	<u>56</u>		

Time	<u>1205</u>	Gal. Purged	<u>88</u>
Conductance	<u>1223</u>	pH	<u>7.62</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>213</u>		
Turbidity (NTU)	<u>57</u>		

Time	<u>1206</u>	Gal. Purged	<u>99</u>
Conductance	<u>1223</u>	pH	<u>7.65</u>
Temp. °C	<u>14.38</u>		
Redox Potential Eh (mV)	<u>208</u>		
Turbidity (NTU)	<u>59</u>		

Time	<u>1207</u>	Gal. Purged	<u>110</u>
Conductance	<u>1230</u>	pH	<u>7.66</u>
Temp. °C	<u>14.38</u>		
Redox Potential Eh (mV)	<u>207</u>		
Turbidity (NTU)	<u>60</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1152. Tanner and Garrin present for purge and sampling event. Purge began at 1157. Purged well for a total of 10 minutes water was murky. Purge ended and samples were collected at 1207. Depth to water was 116.17. Left site at 1210.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TW TWN-14 Sampler Name and initials: Tanner Holliday/TH
TWN-14

Date and Time for Purging 1-10-2012 and Sampling (if different) 1-11-2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-16

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 135.00

Depth to Water Before Purging 63.35 Casing Volume (V) 4" Well: 46.78 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 999.7 pH of Water (avg) 7.51

Well Water Temp. (avg) 14.12 Redox Potential (Eh) 313 Turbidity 56.1

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 4°

Time	<u>1327</u>	Gal. Purged	<u>44</u>
Conductance	<u>999.7</u>	pH	<u>7.51</u>
Temp. °C	<u>14.12</u>		
Redox Potential Eh (mV)	<u>313</u>		
Turbidity (NTU)	<u>56.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1321. Tanner and Garrin present for purge. Purge began at 1323 Purged well for a total of 4 minutes. Purged well dry. Water had a slight discolor. Purge ended at 1327. Left site at 1330
 Arrived on site at 0950. Tanner and Garrin present to collect samples. Depth to water was 63.60. Samples were bailed at 0955.
 Left site at 0957

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2012

Location (well name): TWN-15

Sampler Name and initials: Tanner Holliday TH

Date and Time for Purging 1-10-2012

and Sampling (if different) 1-11-2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-12

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 155.00

Depth to Water Before Purging 92.78

Casing Volume (V) 4" Well: 40.62 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1401

pH of Water (avg) 6.76

Well Water Temp. (avg) 14.04

Redox Potential (Eh) 376

Turbidity 33.1

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) -3°

Time	<u>0828</u>	Gal. Purged	<u>48</u>
Conductance	<u>1401</u>	pH	<u>6.76</u>
Temp. °C	<u>14.04</u>		
Redox Potential Eh (mV)	<u>376</u>		
Turbidity (NTU)	<u>33.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0820. Tanner and Garrin present to purge TWN-15. Purge began at 0824. Purged well for a total of 4 minutes & 20 seconds. Purged well dry. Water was murky. Purge ended at 0828. Left site at 0829.

Arrived on site at 0930. Tanner and Garrin present to collect samples. Depth to water was 92.00. Samples were bailed at 0934. Left site at 0935

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-16 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1-10-2012 and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate Prev. Well Sampled in Sampling Event: TWN-07

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/ cm Well Depth(0.01ft): 100.00

Depth to Water Before Purging: 48.50 Casing Volume (V) 4" Well: 33.62 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 1774 pH of Water (avg): 6.86

Well Water Temp. (avg): 14.79 Redox Potential (Eh): 331 Turbidity: 12.0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 3°

Time	<u>1243</u>	Gal. Purged	<u>44</u>
Conductance	<u>1810</u>	pH	<u>6.85</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>333</u>		
Turbidity (NTU)	<u>12.1</u>		

Time	<u>1244</u>	Gal. Purged	<u>55</u>
Conductance	<u>1782</u>	pH	<u>6.86</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>333</u>		
Turbidity (NTU)	<u>12.0</u>		

Time	<u>1245</u>	Gal. Purged	<u>66</u>
Conductance	<u>1765</u>	pH	<u>6.87</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>12.1</u>		

Time	<u>1246</u>	Gal. Purged	<u>77</u>
Conductance	<u>1739</u>	pH	<u>6.87</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>12.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1236. Tanner and Garrin present for purge and sampling event. Purge began at 1239. Purged well for a total of 7 minutes. Water was mostly clear. Purge ended and samples were collected at 1246. Depth to water was 49.55. Left site at 1250.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-17

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-11-2012

and Sampling (if different) 1-12-2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-17R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 34.40

Casing Volume (V) 4" Well: 49.36 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1127

pH of Water (avg) 7.17

Well Water Temp. (avg) 14.07

Redox Potential (Eh) 327

Turbidity 79.1

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) -1°

Time	<u>0725</u>	Gal. Purged	<u>53</u>
Conductance	<u>1127</u>	pH	<u>7.17</u>
Temp. °C	<u>14.07</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>79.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 0717. Tanner and Garrin present for purge. Purge began at 0721. Purged well for a total of 4 minutes and 50 seconds. Purged well dry. Purge ended at 0726. water had some sand particles with a slight discolor. Left site at 0729.

Arrived on site at 0645. Tanner and Garrin present to collect samples. Depth to water was 34.07. Samples were bailed at 0650. Left site at 0652.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-17R

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1/11/2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-19

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 0

pH of Water (avg) 7.30

Well Water Temp. (avg) 7.52

Redox Potential (Eh) 313

Turbidity 0

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) -1°

Time	<u>0708</u>	Gal. Purged	<u>180</u>
Conductance	<u>0</u>	pH	<u>7.30</u>
Temp. °C	<u>7.52</u>		
Redox Potential Eh (mV)	<u>313</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site 0645. Tanner and Garrin present for rinsate. Rinsate began at 0650 Purged. 50 Gallons of Acid water, 50 Gallons of soap water, 100 Gallons of DI water. Rinsate ended and samples were collected at 0710. Left site at 0712

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday / TH

Date and Time for Purging: 1-10-2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-11

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging: 57.84

Casing Volume (V) 4" Well: 56.91 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2176

pH of Water (avg): 6.75

Well Water Temp. (avg): 14.17

Redox Potential (Eh): 312

Turbidity: 103

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 10

Time	<u>1049</u>	Gal. Purged	<u>88</u>
Conductance	<u>2169</u>	pH	<u>6.75</u>
Temp. °C	<u>14.17</u>		
Redox Potential Eh (mV)	<u>314</u>		
Turbidity (NTU)	<u>100</u>		

Time	<u>1050</u>	Gal. Purged	<u>99</u>
Conductance	<u>2177</u>	pH	<u>6.75</u>
Temp. °C	<u>14.17</u>		
Redox Potential Eh (mV)	<u>313</u>		
Turbidity (NTU)	<u>103</u>		

Time	<u>1051</u>	Gal. Purged	<u>110</u>
Conductance	<u>2179</u>	pH	<u>6.76</u>
Temp. °C	<u>14.17</u>		
Redox Potential Eh (mV)	<u>312</u>		
Turbidity (NTU)	<u>105</u>		

Time	<u>1052</u>	Gal. Purged	<u>121</u>
Conductance	<u>2182</u>	pH	<u>6.76</u>
Temp. °C	<u>14.17</u>		
Redox Potential Eh (mV)	<u>312</u>		
Turbidity (NTU)	<u>106</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1038. Tanner and Garrin present for purge and sampling event. Purge began at 1041. Purged well for a total of 11 minutes. water was murky. Purge ended and samples were collected at 1052. Depth to water was 61.20. Left site at 1056.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-19

Sampler Name and initials: J

Tanner Holliday/TH

Date and Time for Purging: 1-10-2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-14

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 52.58

Casing Volume (V) 4" Well: 37.49 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1968

pH of Water (avg): 7.13

Well Water Temp. (avg): 14.50

Redox Potential (Eh): 326

Turbidity: 27

Weather Cond.: Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event): 4°

Time	<u>1416</u>	Gal. Purged	<u>44</u>
Conductance	<u>1966</u>	pH	<u>7.13</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>328</u>		
Turbidity (NTU)	<u>26.1</u>		

Time	<u>1417</u>	Gal. Purged	<u>55</u>
Conductance	<u>1965</u>	pH	<u>7.13</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>326</u>		
Turbidity (NTU)	<u>27</u>		

Time	<u>1418</u>	Gal. Purged	<u>66</u>
Conductance	<u>1970</u>	pH	<u>7.14</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>28</u>		

Time	<u>1419</u>	Gal. Purged	<u>77</u>
Conductance	<u>1972</u>	pH	<u>7.13</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>28</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived on site at 1409. Tanner and Garrin present for purge and sampling event. Purge began at 1412. Purged well for a total of 7 minutes. after 5 minutes the well started to sputter but kept up for full 7 minutes. water was a little murky. Depth to water was 101.10
 Purge ended and samples were collected at 1419. Left site at 1424.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-60

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1/11/2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) N/A

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event Piez-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 0.8

pH of Water (avg) 7.37

Well Water Temp. (avg) 13.29

Redox Potential (Eh) 278

Turbidity 0

Weather Cond. N/A

Ext'l Amb. Temp. °C (prior sampling event) 21°

Time	<u>1314</u>	Gal. Purged	<u>0</u>
Conductance	<u>0.8</u>	pH	<u>7.37</u>
Temp. °C	<u>13.29</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab:

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Arrived in Lab at 1308. Tanner Holliday present to collect a DI Blank. Samples were collected at 1315. Left Lab at 1317.

DI Blank

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2012

Location (well name): TWN-65

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 1-9-2012

and Sampling (if different): 1-10-2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-13

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/ cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging: 81.02

Casing Volume (V) 4" Well: 15.65 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2687

pH of Water (avg): 3.62

Well Water Temp. (avg): 13.69

Redox Potential (Eh): 471

Turbidity: 166

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 4°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 S/60 =

Time to evacuate two casing volumes (2V)
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Do not touch this cell (SheetName)



**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 1st Quarter Nitrate 2011 2012

Location (well name): TWN-70 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 1-10-2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-06

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging 70.30 Casing Volume (V) 4" Well: 46.82 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2652 pH of Water (avg) 6.52

Well Water Temp. (avg) 13.45 Redox Potential (Eh) 301 Turbidity 2.1

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
 $S/60 =$

Time to evacuate two casing volumes (2V)
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

 See instruction

Comment

Do not touch this cell (SheetName)

Tab C

Kriged Current Quarter Groundwater Contour Map and Depth to Water Summary

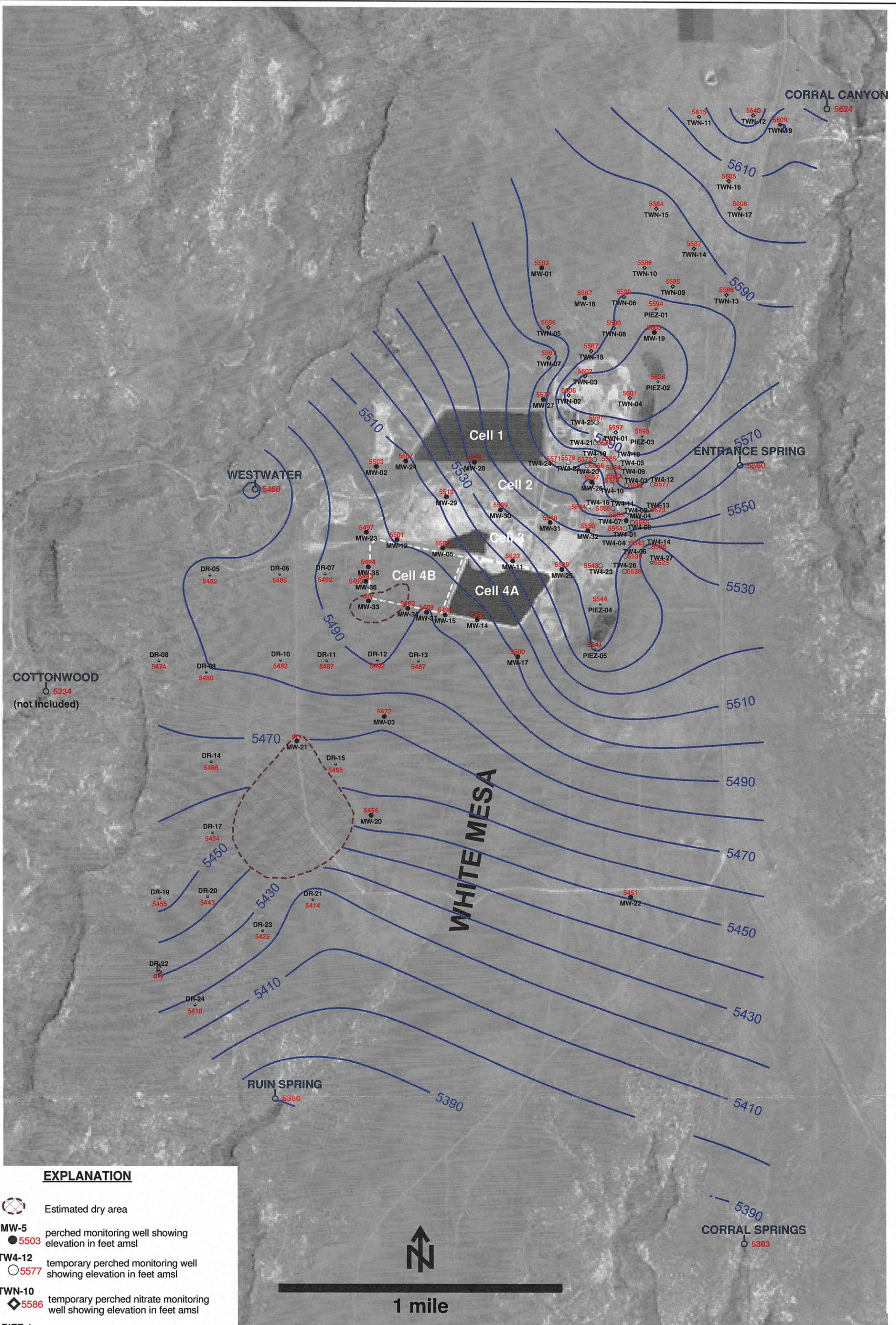
NAME: Tanner Holliday, Garrin Palmer

DATE: 3/27/2012

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
911	MW-1	64.59	1253	MW-4	71.11	851	PIEZ-1	61.59		DR-1	ABANDON
1213	MW-2	109.70	1249	TW4-1	64.94	856	PIEZ-2	21.20		DR-2	ABANDON
1201	MW-3	83.20	1256	TW4-2	66.86	1000	PIEZ-3	40.25			
1202	MW-3A	85.23	1259	TW4-3	50.30	1222	PIEZ-4	47.60			
1313	MW-5	106.13	1246	TW4-4	70.01	1226	PIEZ-5	43.11	1351	DR-5	83.14
1243	MW-11	88.11	1301	TW4-5	56.81				1348	DR-6	94.36
1309	MW-12	108.45	1245	TW4-6	70.05	1011	TWN-1	51.55	1300	DR-7	92.20
1247	MW-14	103.64	1251	TW4-7	67.90	1006	TWN-2	21.00	1343	DR-8	50.91
1249	MW-15	106.37	1258	TW4-8	66.55	1003	TWN-3	32.80	1340	DR-9	86.51
1156	MW-17	74.86	1303	TW4-9	54.75	957	TWN-4	41.05	1336	DR-10	78.07
909	MW-18	70.20	1305	TW4-10	56.35	916	TWN-5	69.57	1212	DR-11	98.38
853	MW-19	52.14	1255	TW4-11	57.81	904	TWN-6	74.60	1209	DR-12	88.21
1402	MW-20	84.47	1237	TW4-12	47.16	914	TWN-7	88.34	1206	DR-13	69.93
1257	MW-22	66.89	1235	TW4-13	47.15	906	TWN-8	61.63	1328	DR-14	76.35
1307	MW-23	114.55	1233	TW4-14	86.89	848	TWN-9	62.89	1333	DR-15	92.95
1210	MW-24	114.36	1235	TW4-15	68.15	859	TWN-10	80.82		DR-16	ABANDON
1239	MW-25	73.78	1226	TW4-16	60.26	835	TWN-11	69.42	1326	DR-17	64.63
1235	MW-26	68.15	1224	TW4-17	74.93	832	TWN-12	28.55		DR-18	ABANDON
1203	MW-27	51.04	1012	TW4-18	56.65	846	TWN-13	46.00	1313	DR-19	63.35
1207	MW-28	76.55	929	TW4-19	58.99	843	TWN-14	62.46	1312	DR-20	55.22
1216	MW-29	102.00	1235	TW4-20	61.80	901	TWN-15	92.02	1304	DR-21	107.40
1219	MW-30	75.96	1016	TW4-21	54.11	839	TWN-16	47.86		DR-22	Dry
1221	MW-31	68.10	1233	TW4-22	53.39	840	TWN-17	33.88	70.6	DR-23	70.60
1224	MW-32	74.93	1244	TW4-23	64.78	954	TWN-18	58.40	43076	DR-24	43.76
1256	MW-33	Dry	1230	TW4-24	54.80	925	TWN-19	52.49		DR-25	ABANDON
1254	MW-34	107.84	1009	TW4-25	47.50						
1304	MW-35	112.24	1241	TW4-26	63.50						
1257	MW-36	110.35	1230	TW4-27	83.10						
1251	MW-37	110.58									

We split up to complete depth checks so some of the times may be the same.

Protective casing needs to be placed around TW4-2. TW4-27 needs to be painted and labeled.



EXPLANATION

-  Estimated dry area
- MW-5**
 perched monitoring well showing elevation in feet amsl
- TW4-12**
 temporary perched monitoring well showing elevation in feet amsl
- TWN-10**
 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 perched piezometer showing elevation in feet amsl
- TW4-27**
 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUI-01**
 seep or spring showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells



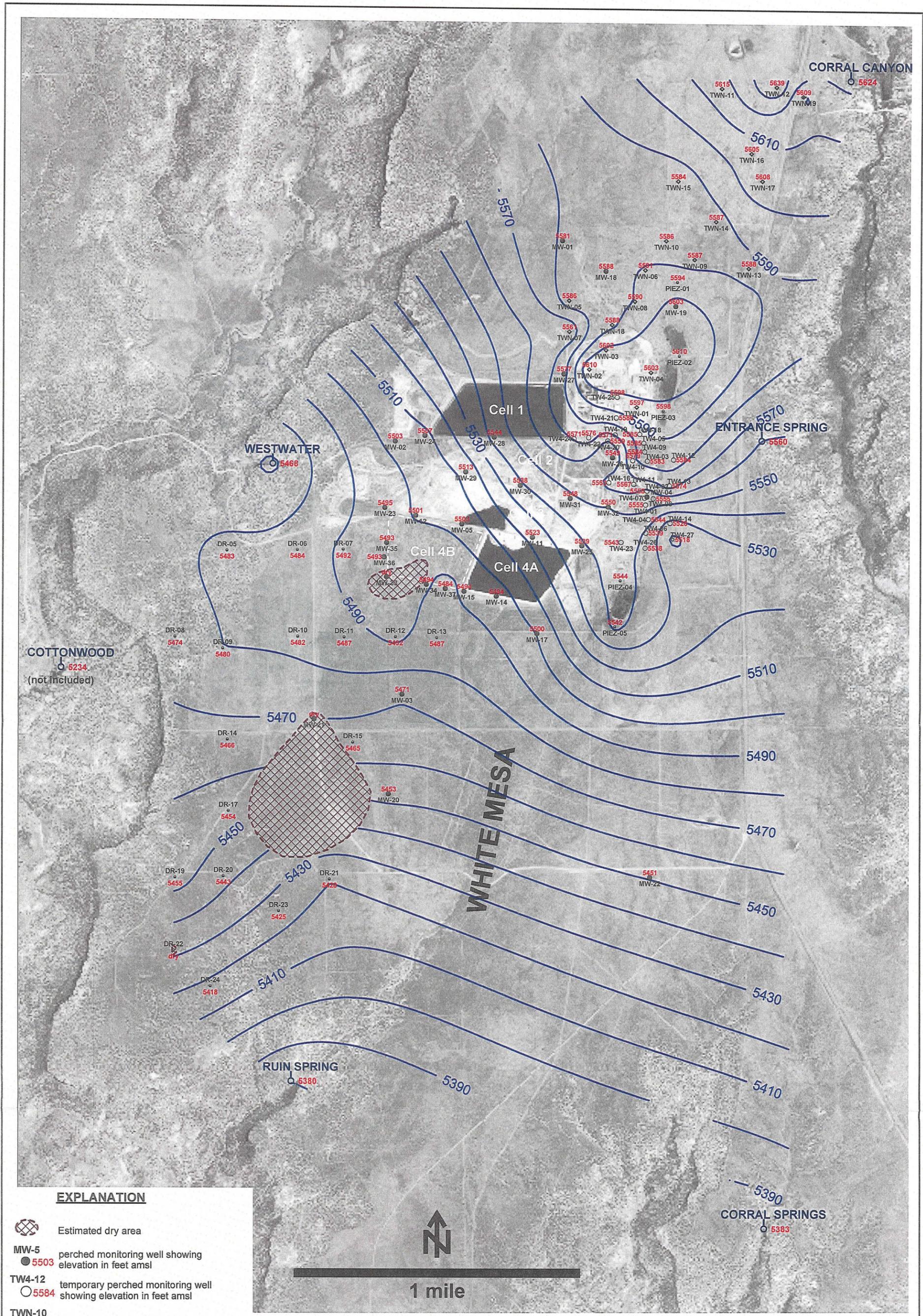
**HYDRO
GEO
CHEM, INC.**

**KRIGED 1st QUARTER, 2012 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/Uwl0312.srf	C-1

Tab D

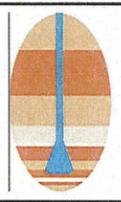
Kriged Previous Quarter Groundwater Contour Map



NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

EXPLANATION

-  Estimated dry area
- MW-5  5503 perched monitoring well showing elevation in feet amsl
- TW4-12  5584 temporary perched monitoring well showing elevation in feet amsl
- TWN-10  5586 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1  5594 perched piezometer showing elevation in feet amsl
- TW4-27  5518 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING  5380 seep or spring showing elevation in feet amsl



**HYDRO
GEO
CHEM, INC.**

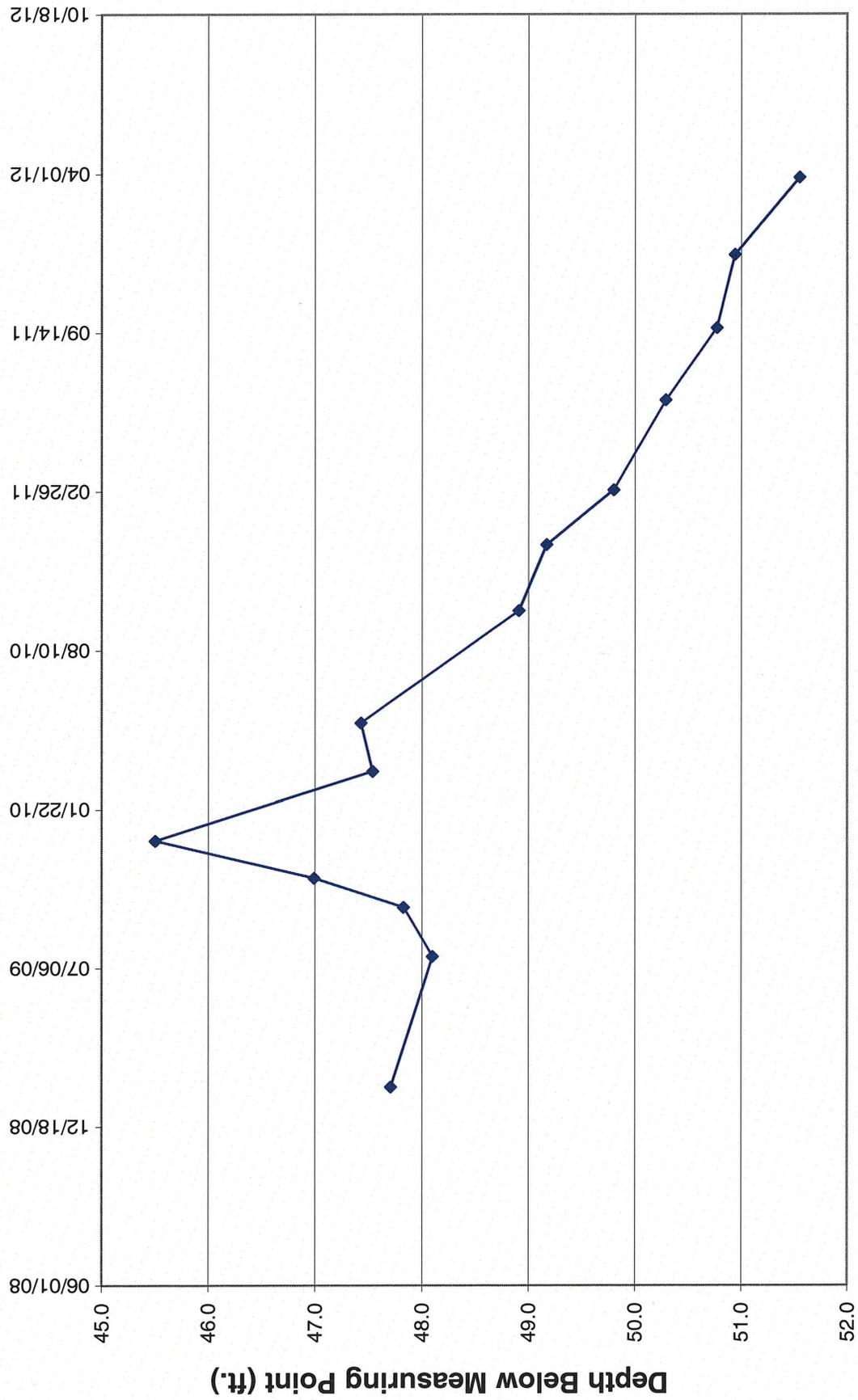
**KRIGED 4th QUARTER, 2011 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb12/Uwl1211.srf	D-1

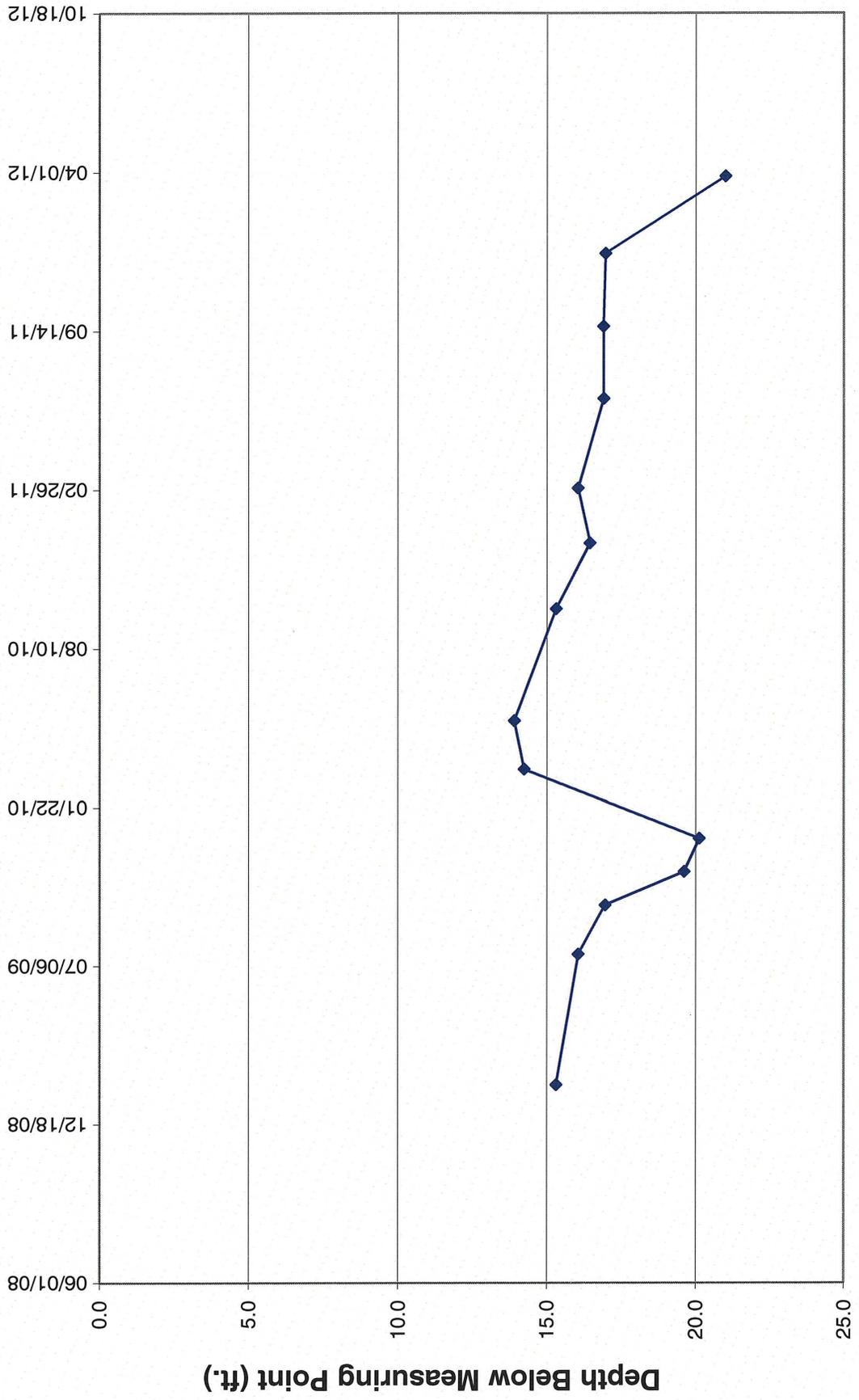
Tab E

Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

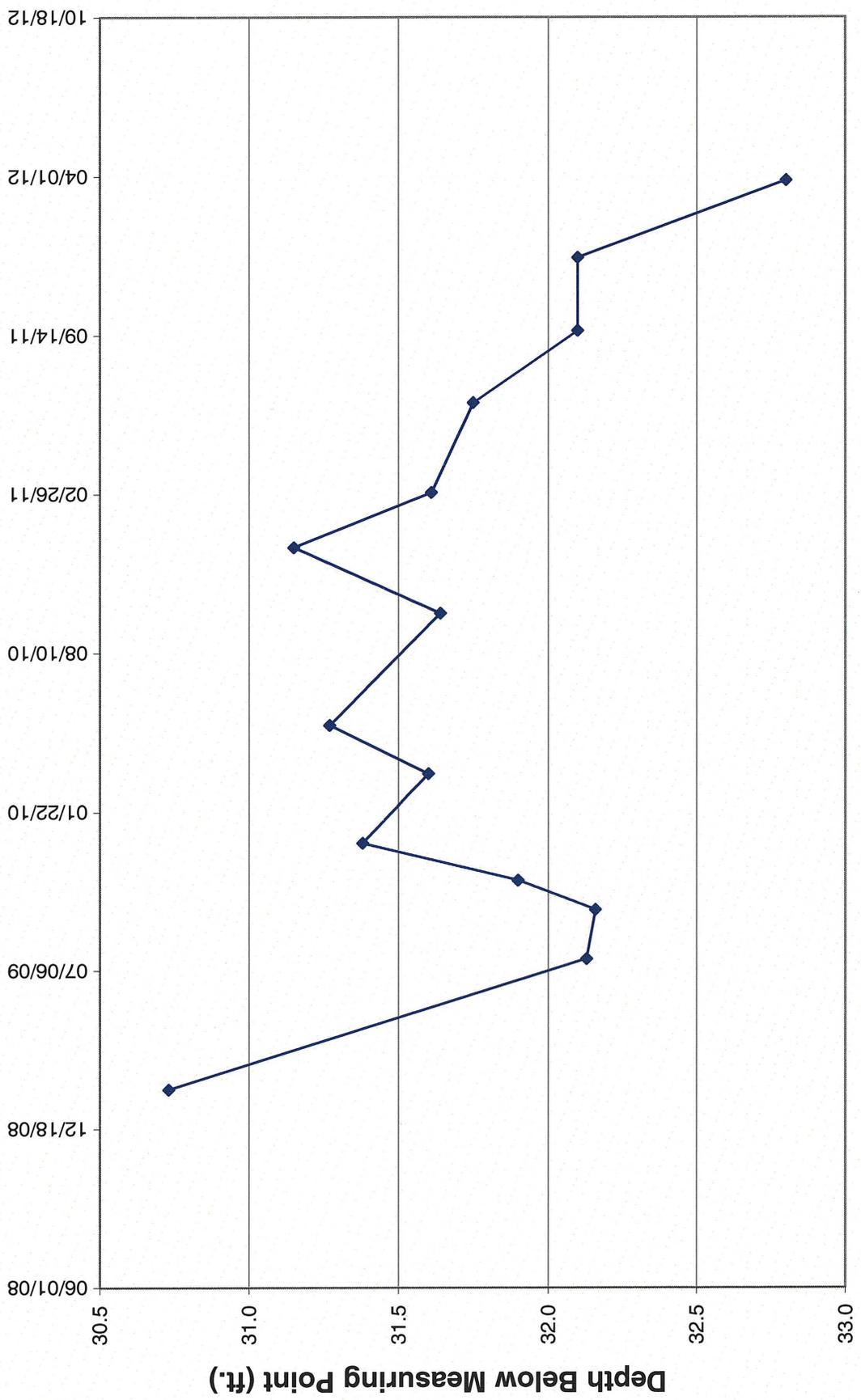
TWN-1 Water Level Over Time (ft. blmp)



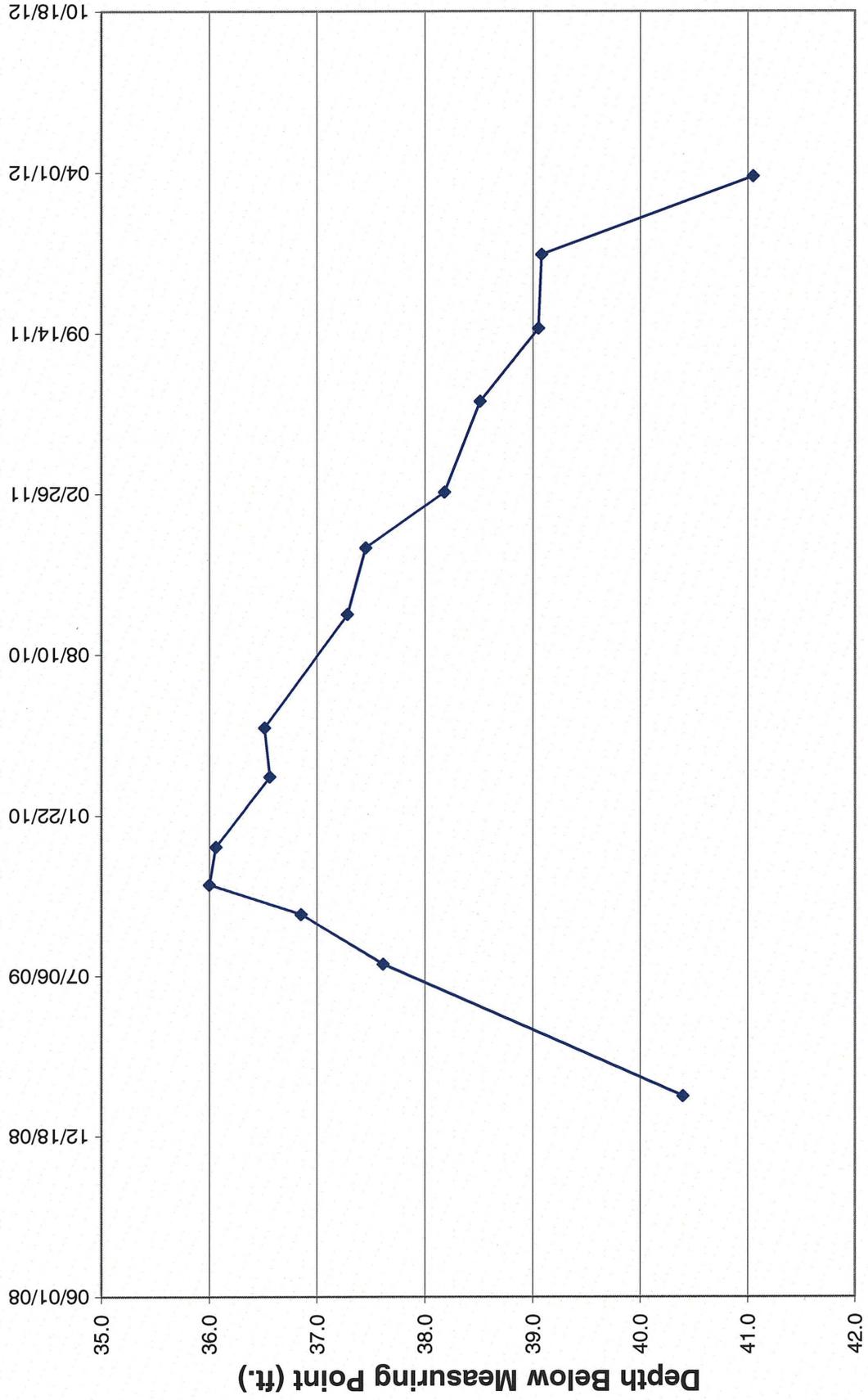
TWN-2 Water Level Over Time (ft. blmp)



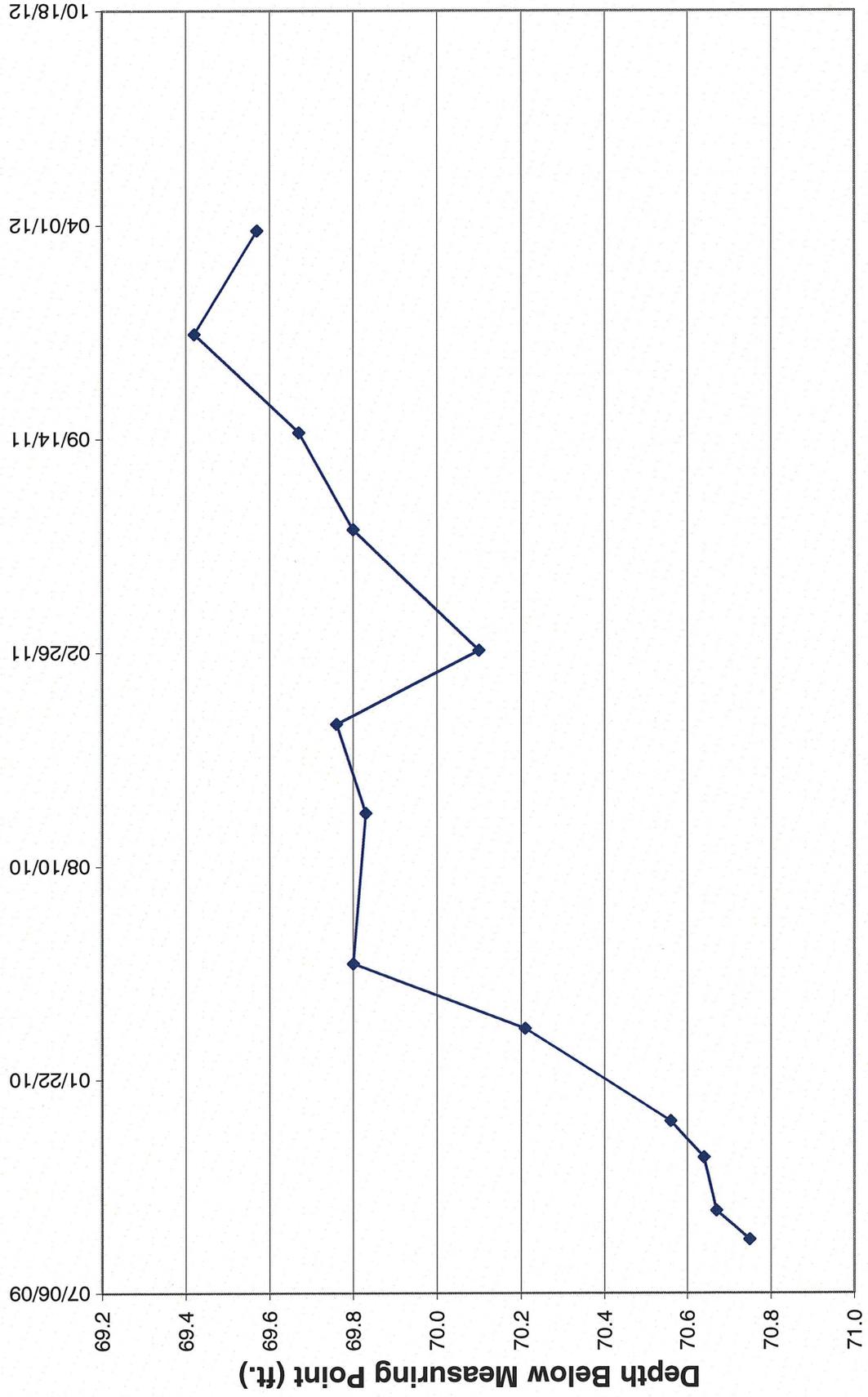
TWN-3 Water Level Over Time (ft. blmp)



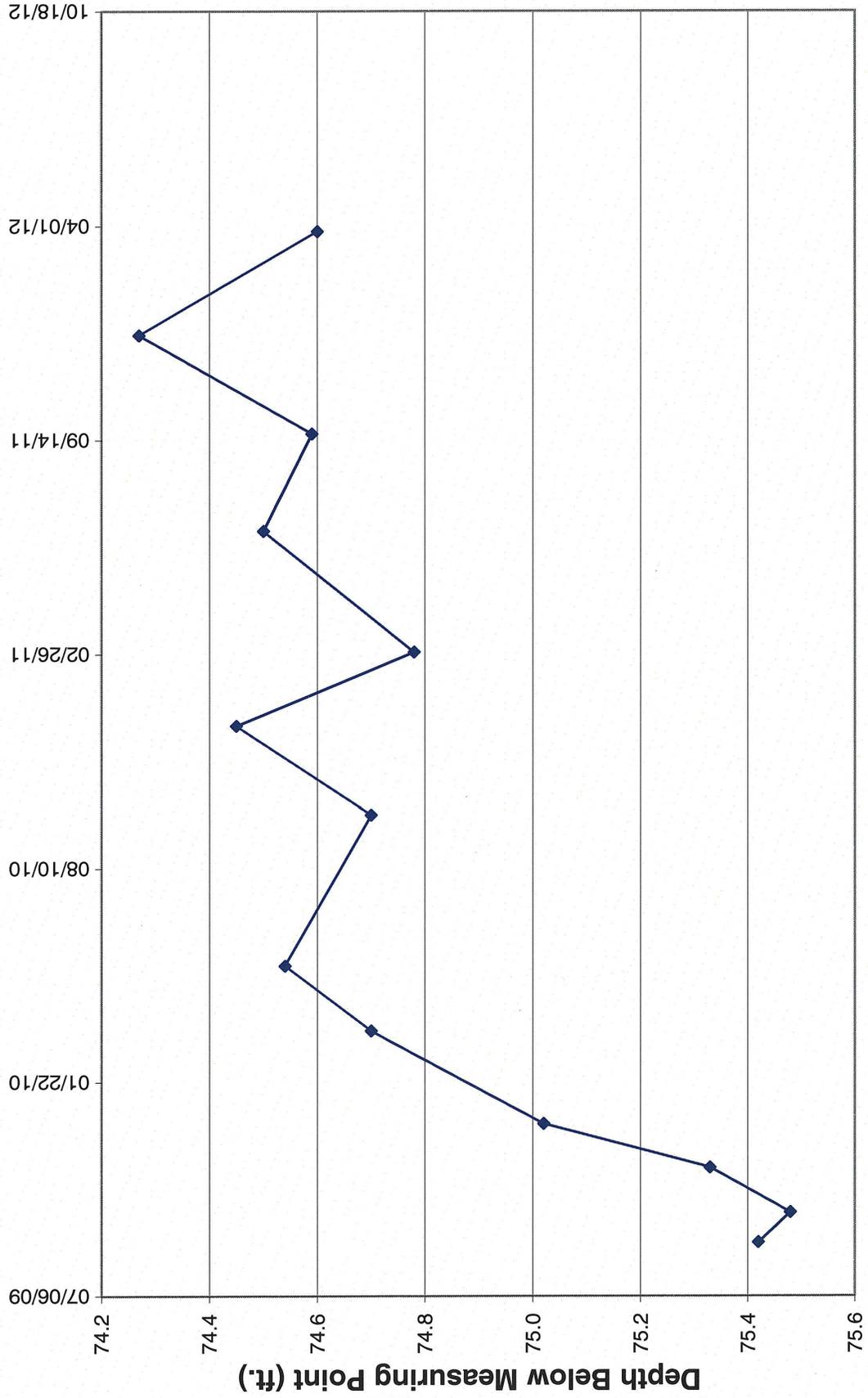
TWN-4 Water Level Over Time (ft. blmp)



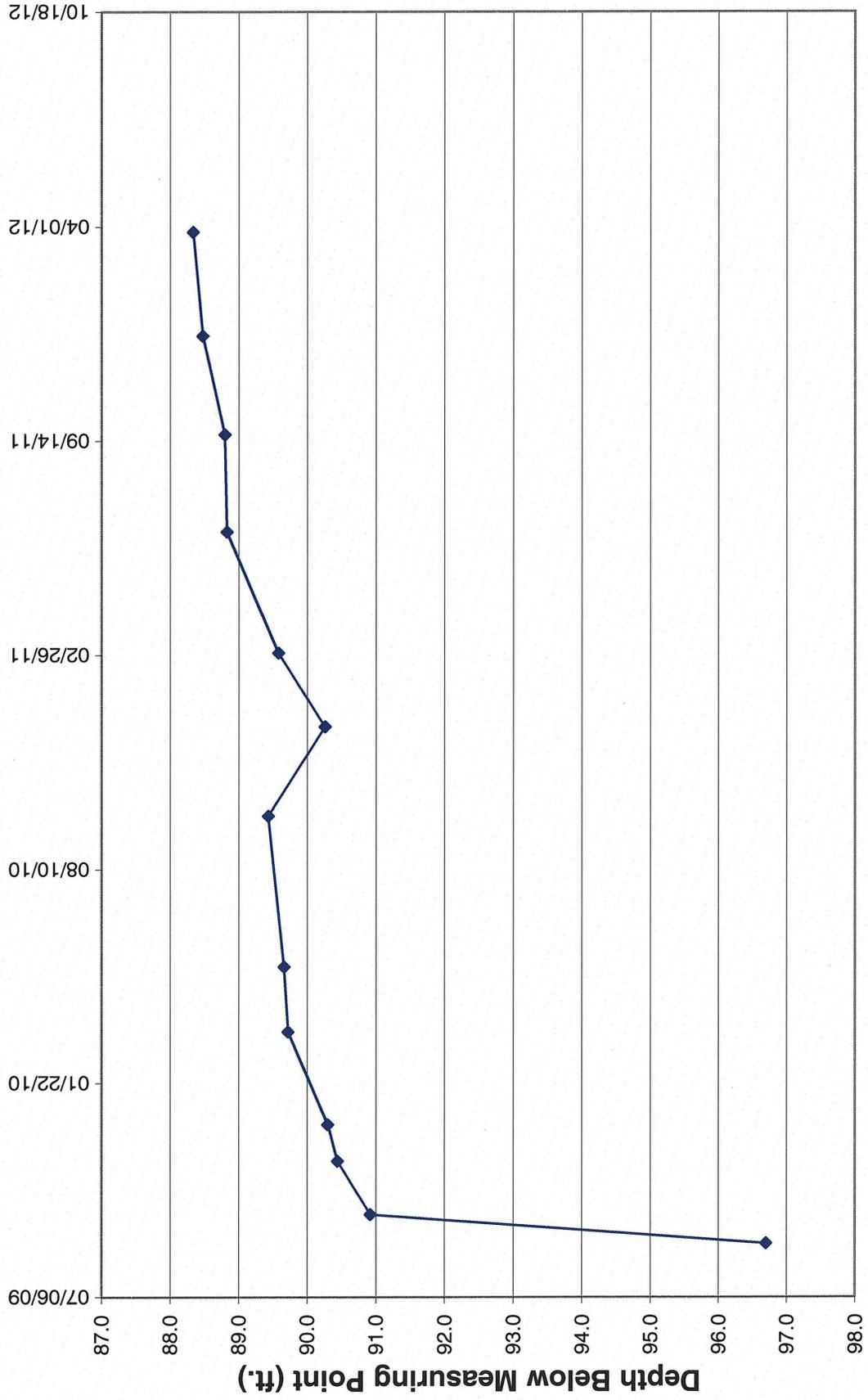
TWN-5 Water Level Over Time (ft. blmp)



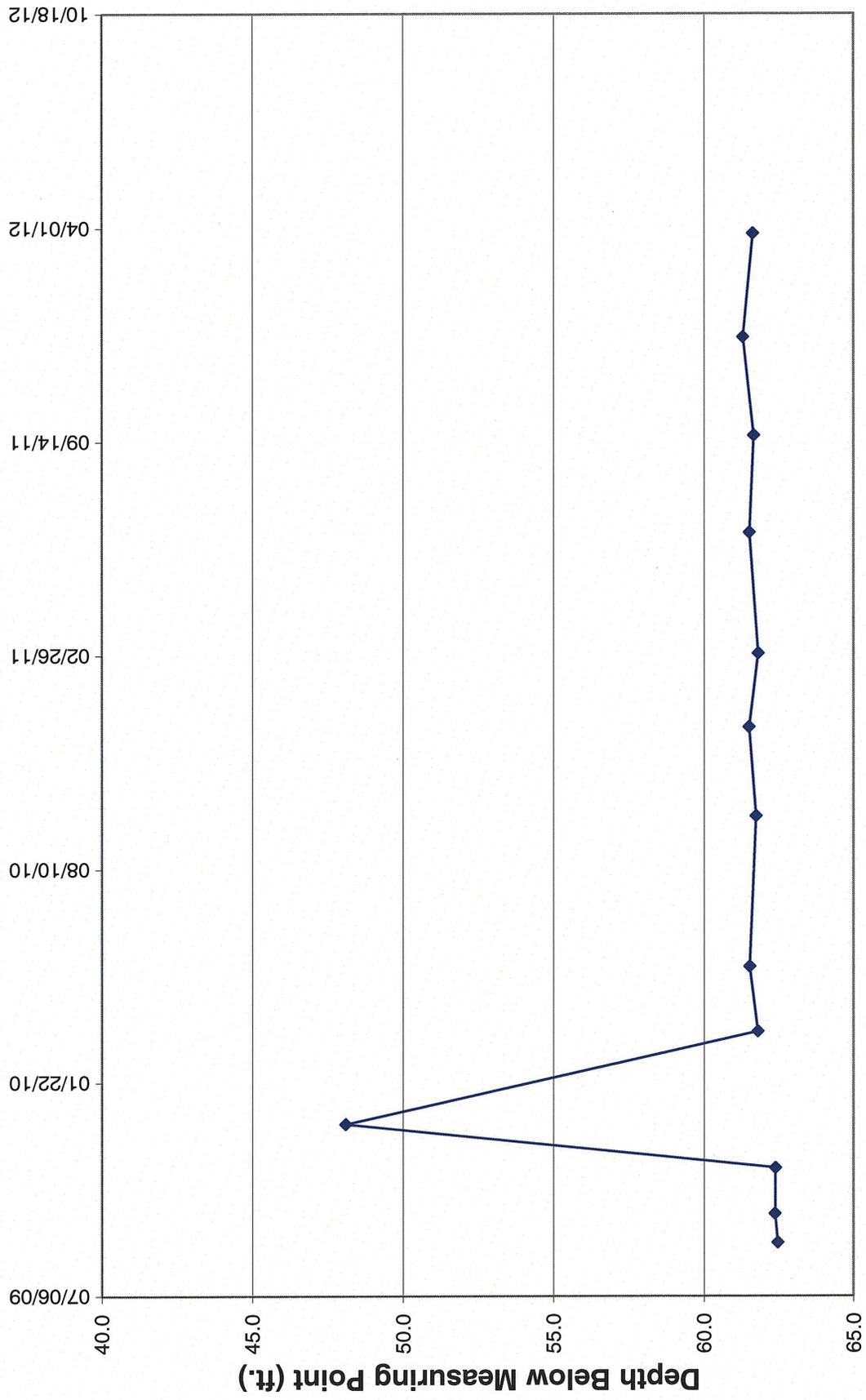
TWN-6 Water Level Over Time (ft. blmp)



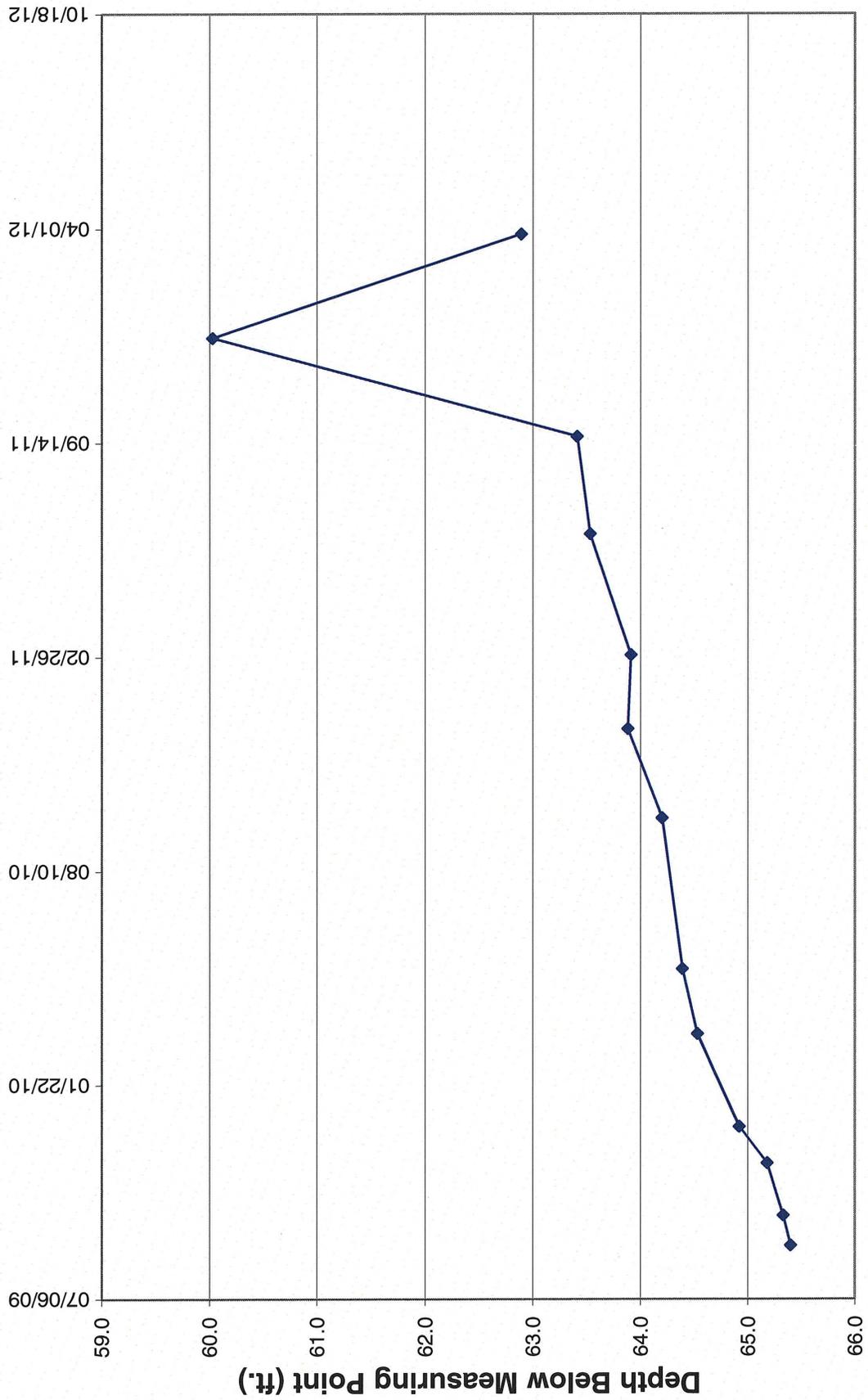
TWN-7 Water Level Over Time (ft. blmp)



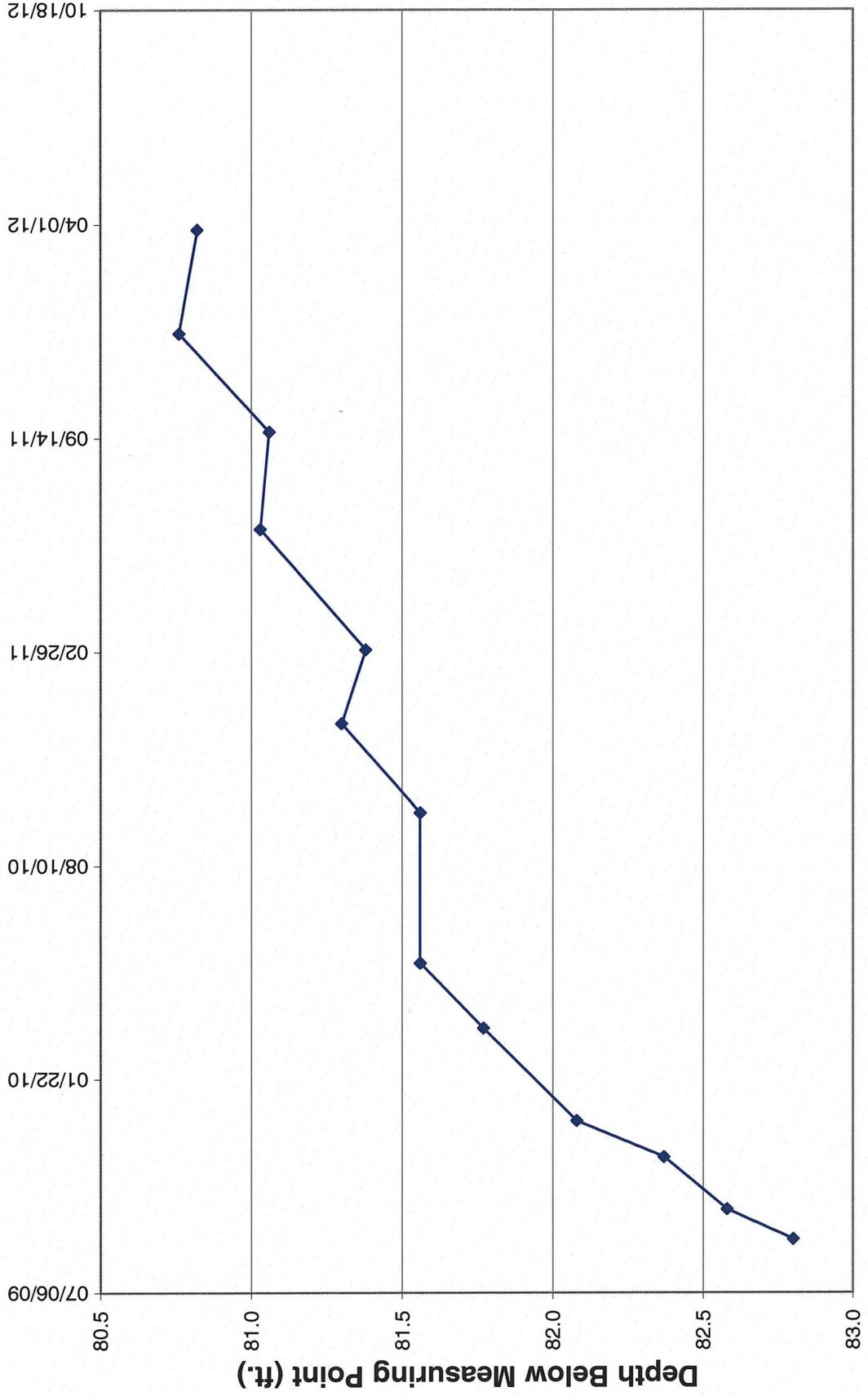
TWN-8 Water Level Over Time (ft. blimp)

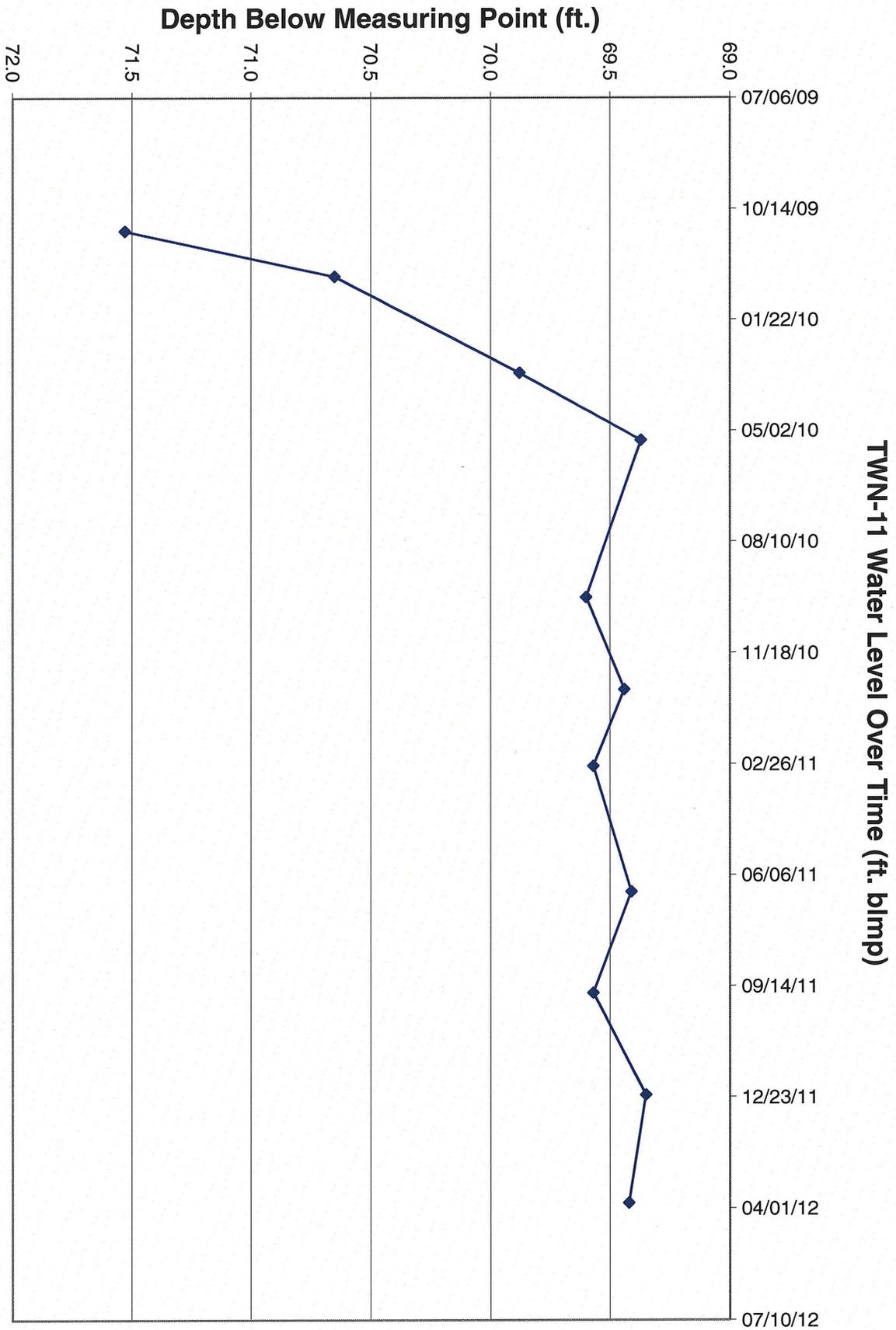


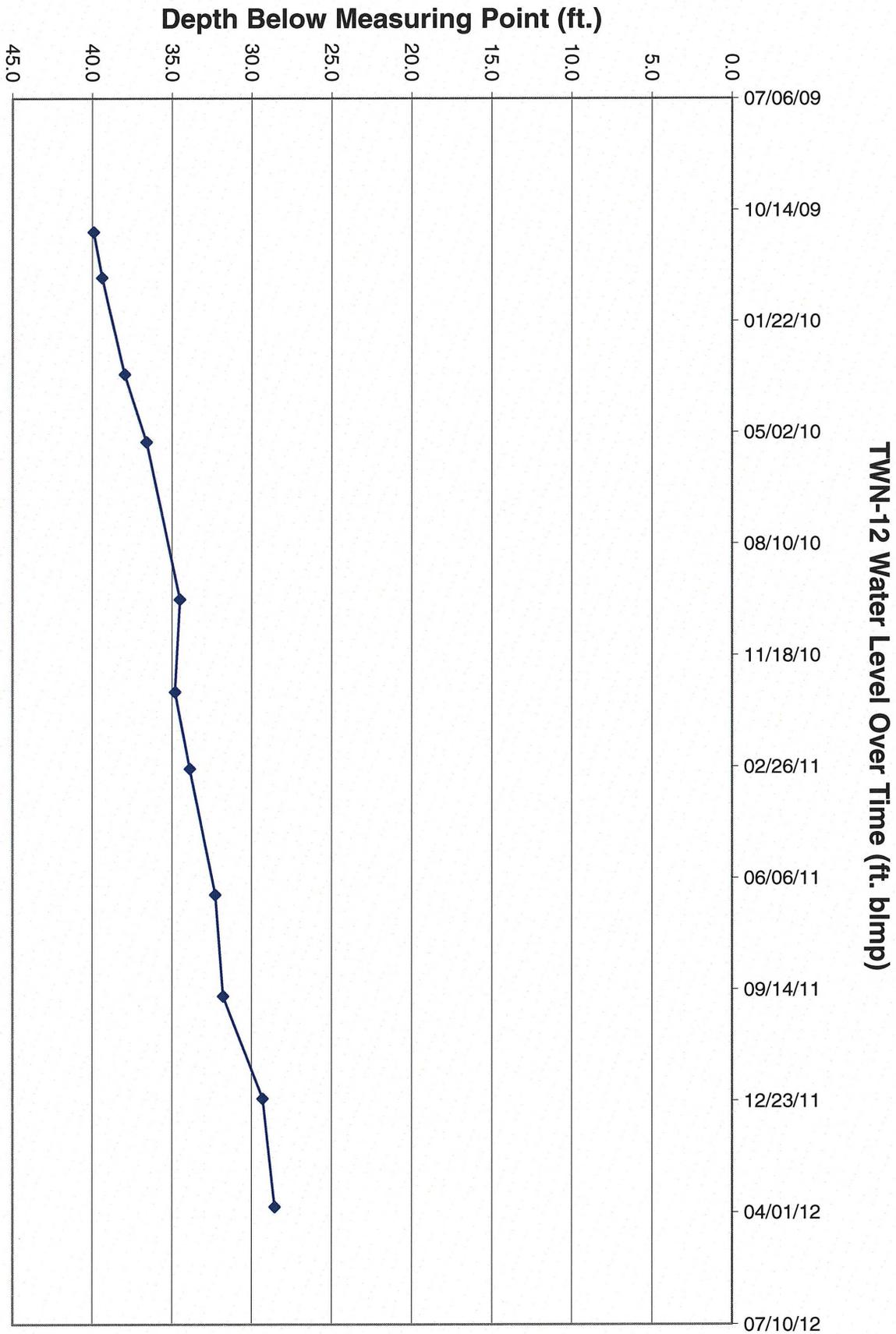
TWN-9 Water Level Over Time (ft. blimp)



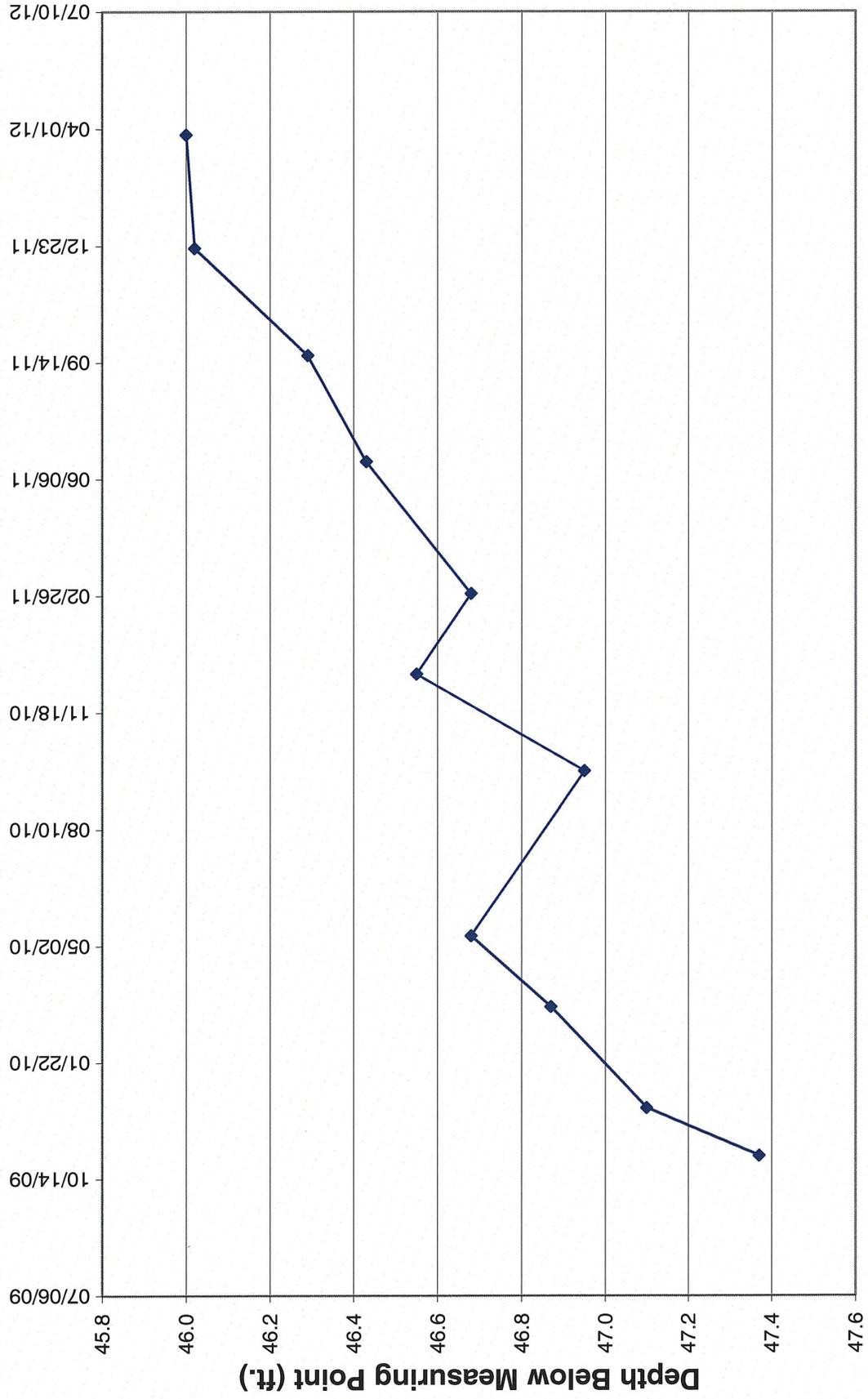
TWN-10 Water Level Over Time (ft. blmp)



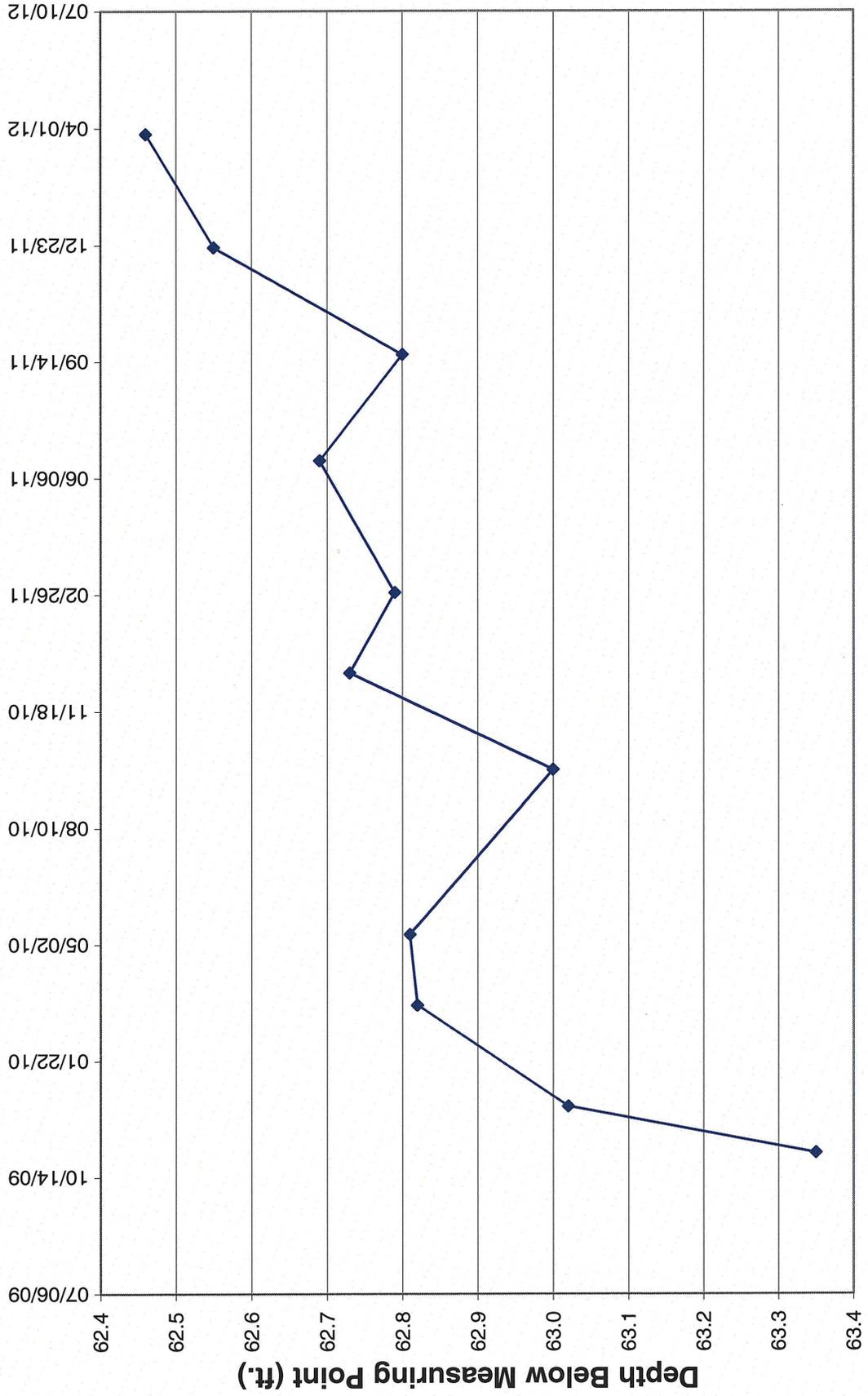


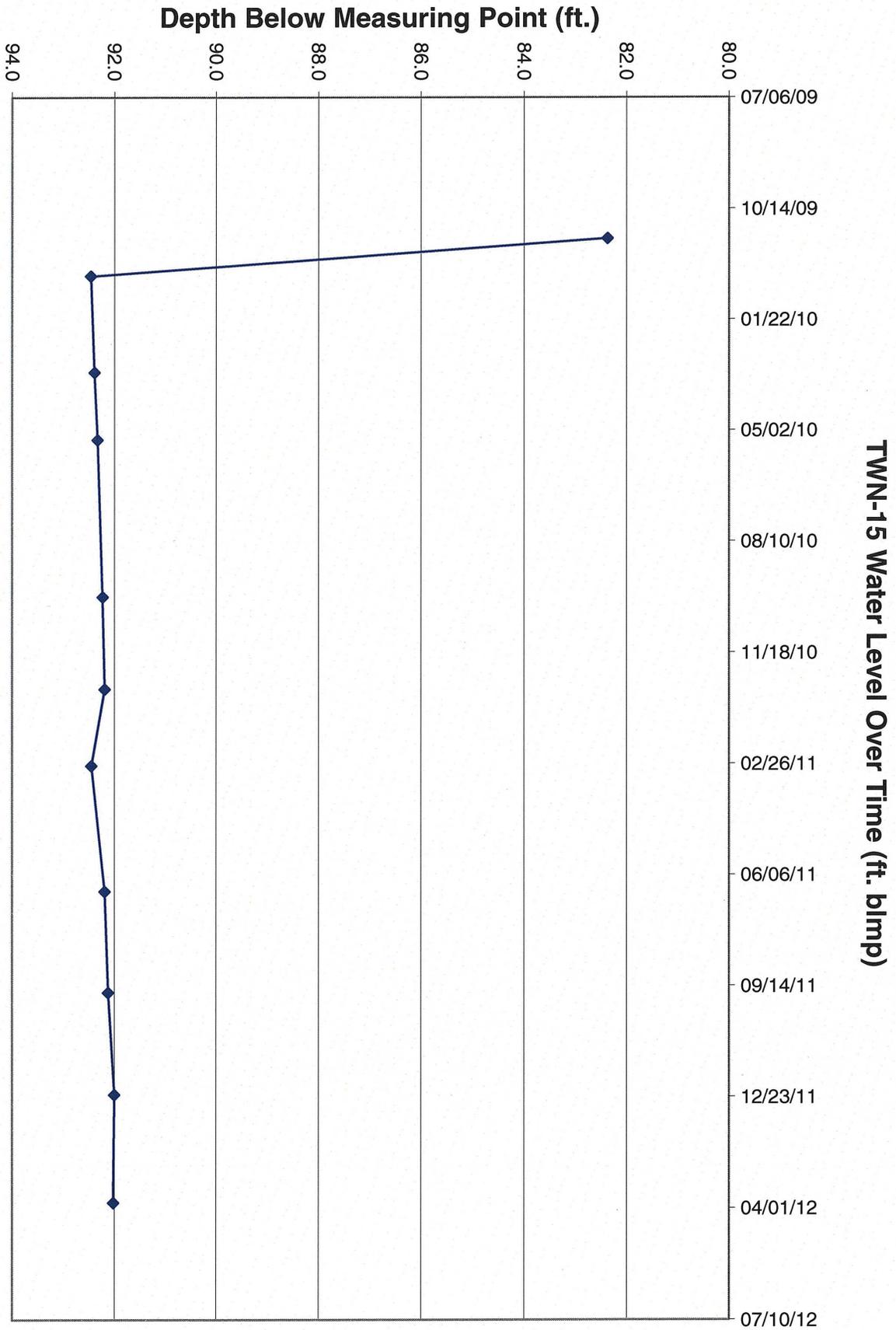


TWN-13 Water Level Over Time (ft. blmp)

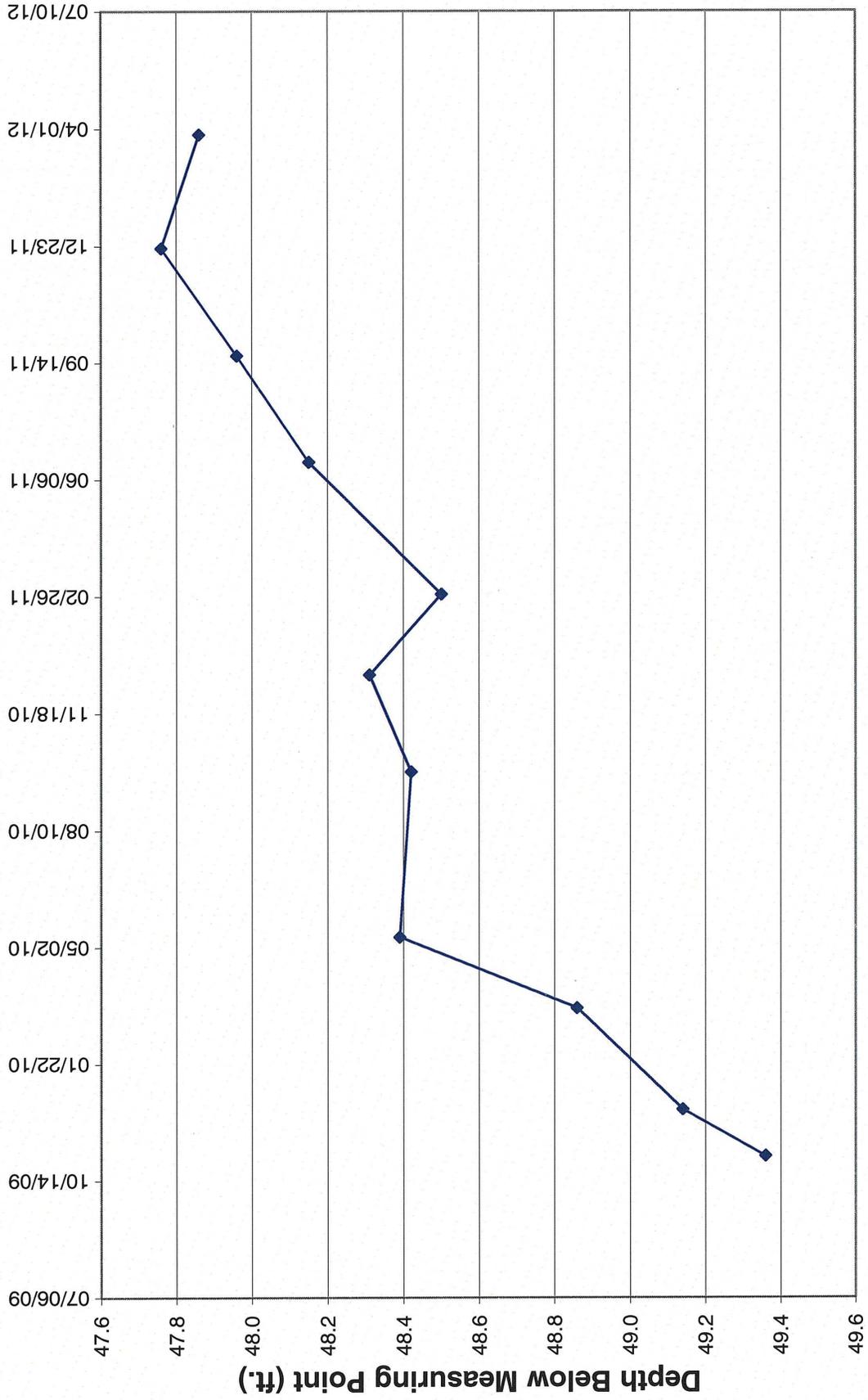


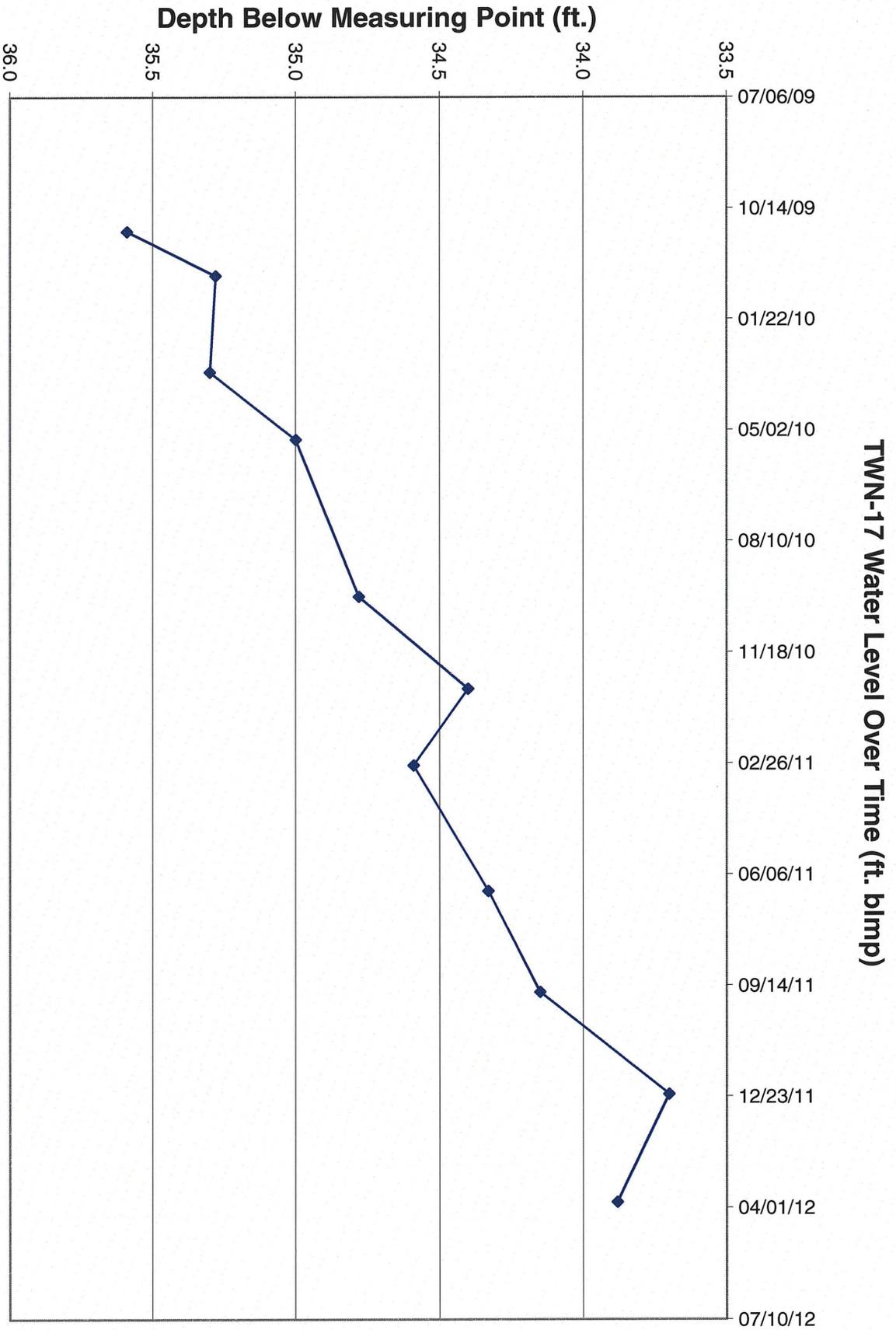
TWN-14 Water Level Over Time (ft. blimp)

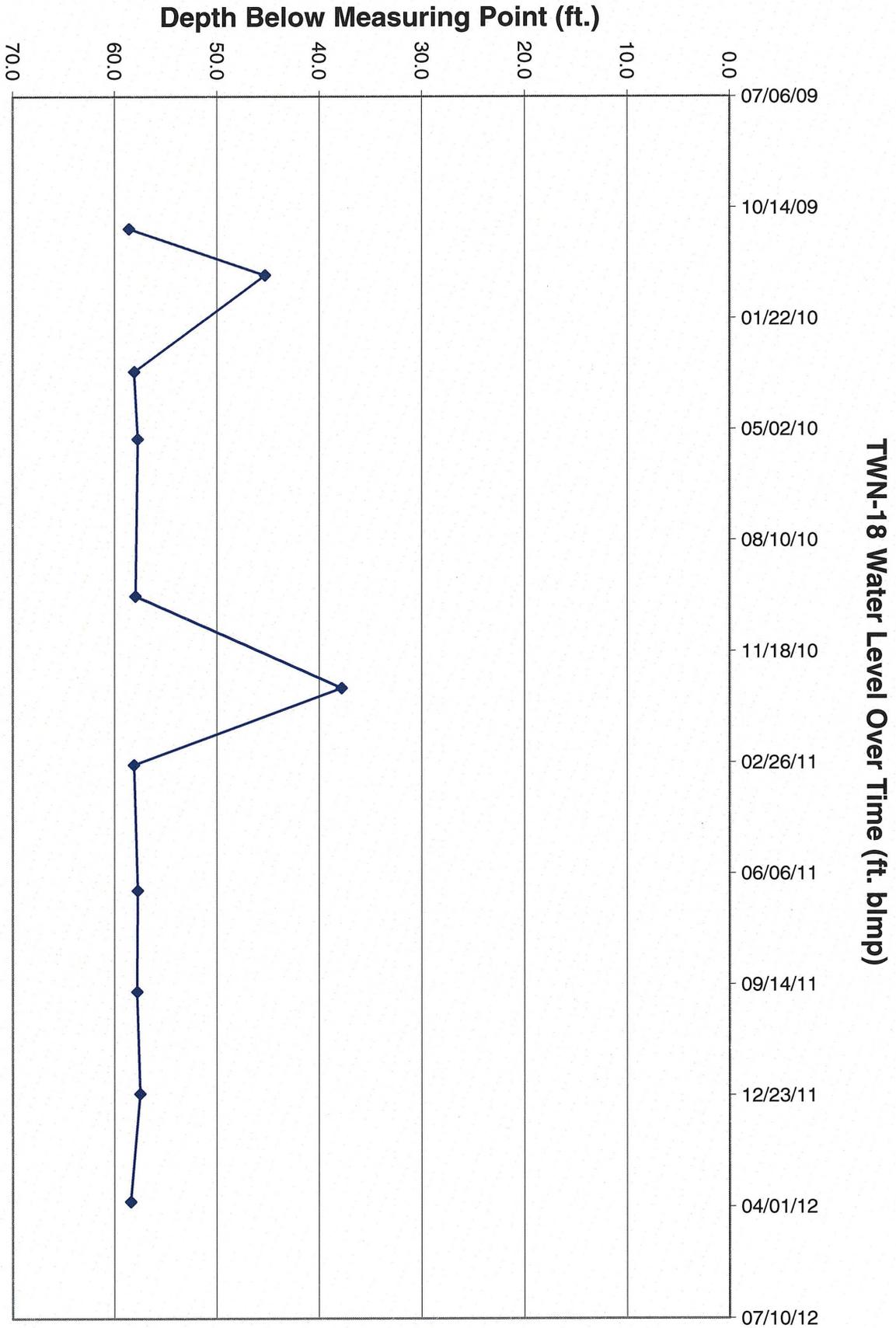




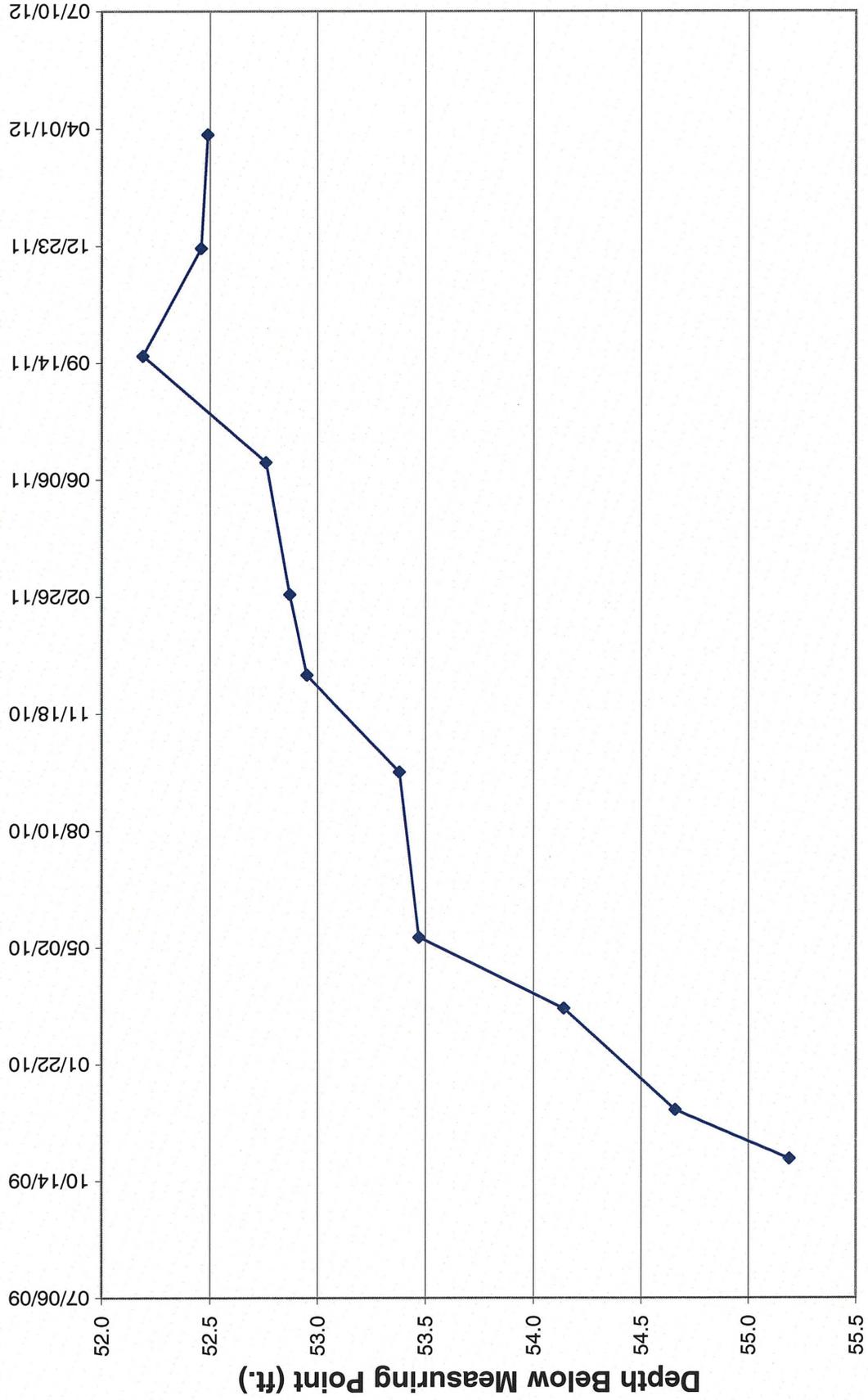
TWN-16 Water Level Over Time (ft. blmp)







TWN-19 Water Level Over Time (ft. blmp)



Tab F

Depths to Groundwater and Elevations Over Time for Nitrate Monitoring Wells

**Water Levels and Data over Time
White Mesa Mill - Well TWN-1**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,646.96	5,648.09	1.13				112.5
5,600.38				02/06/09	47.71	46.58	
5,599.99				07/21/09	48.10	46.97	
5,600.26				09/21/09	47.83	46.70	
5,601.10				10/28/09	46.99	45.86	
5,602.59				12/14/09	45.50	44.37	
5,600.55				03/11/10	47.54	46.41	
5,600.66				05/11/10	47.43	46.30	
5,599.18				09/29/10	48.91	47.78	
5,598.92				12/21/10	49.17	48.04	
5,598.29				02/28/11	49.80	48.67	
5,597.80				06/21/11	50.29	49.16	
5,597.32				09/20/11	50.77	49.64	
5,597.15				12/21/11	50.94	49.81	
5,596.54				03/27/12	51.55	50.42	

Water Levels and Data over Time
White Mesa Mill - Well TWN-2

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.75	5,626.69	0.94				95
5,611.37				02/06/09	15.32	14.38	
5,610.63				07/21/09	16.06	15.12	
5,609.73				09/21/09	16.96	16.02	
5,607.08				11/02/09	19.61	18.67	
5,606.57				12/14/09	20.12	19.18	
5,612.45				03/11/10	14.24	13.30	
5,612.78				05/11/10	13.91	12.97	
5,611.37				09/29/10	15.32	14.38	
5,610.24				12/21/10	16.45	15.51	
5,610.64				02/28/11	16.05	15.11	
5,609.78				06/21/11	16.91	15.97	
5609.79				09/20/11	16.90	15.96	
5609.72				12/21/11	16.97	16.03	
5,605.69				03/27/12	21.00	20.06	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-3**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.64	5,634.50	0.86				110
5,603.77				02/06/09	30.73	29.87	
5,602.37				07/21/09	32.13	31.27	
5,602.34				09/21/09	32.16	31.30	
5,602.60				10/28/09	31.90	31.04	
5,603.12				12/14/09	31.38	30.52	
5,602.90				03/11/10	31.60	30.74	
5,603.23				05/11/10	31.27	30.41	
5,602.86				09/29/10	31.64	30.78	
5,603.35				12/21/10	31.15	30.29	
5,602.89				02/28/11	31.61	30.75	
5,602.75				06/21/11	31.75	30.89	
5,602.40				09/20/11	32.10	31.24	
5,602.40				12/21/11	32.10	31.24	
5,601.70				03/27/12	32.80	31.94	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-4**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,641.04	5,641.87	0.83				136
5,601.47				02/06/09	40.40	39.57	
5,604.26				07/21/09	37.61	36.78	
5,605.02				09/21/09	36.85	36.02	
5,605.87				10/28/09	36.00	35.17	
5,605.81				12/14/09	36.06	35.23	
5,605.31				03/11/10	36.56	35.73	
5,605.36				05/11/10	36.51	35.68	
5,604.59				09/29/10	37.28	36.45	
5,604.42				12/21/10	37.45	36.62	
5,603.69				02/28/11	38.18	37.35	
5,603.36				06/21/11	38.51	37.68	
5,602.82				09/20/11	39.05	38.22	
5,602.79				12/21/11	39.08	38.25	
5,600.82				03/27/12	41.05	40.22	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-5**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,653.70	5,655.18	1.48				155
5,584.43				08/25/09	70.75	69.27	
5,584.51				09/21/09	70.67	69.19	
5,584.54				11/10/09	70.64	69.16	
5,584.62				12/14/09	70.56	69.08	
5,584.97				03/11/10	70.21	68.73	
5,585.38				05/11/10	69.80	68.32	
5,585.35				09/29/10	69.83	68.35	
5,585.42				12/21/10	69.76	68.28	
5,585.08				02/28/11	70.10	68.62	
5,585.38				06/21/11	69.80	68.32	
5,585.51				09/20/11	69.67	68.19	
5,585.76				12/21/11	69.42	67.94	
5,585.61				03/27/12	69.57	68.09	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-6**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,663.03	5,664.94	1.91				135
5,589.52				08/25/09	75.42	73.51	
5,589.46				09/22/09	75.48	73.57	
5,589.61				11/03/09	75.33	73.42	
5,589.92				12/14/09	75.02	73.11	
5,590.24				03/11/10	74.70	72.79	
5,590.40				05/11/10	74.54	72.63	
5,590.24				09/29/10	74.70	72.79	
5,590.49				12/21/10	74.45	72.54	
5,590.16				02/28/11	74.78	72.87	
5,590.44				06/21/11	74.50	72.59	
5,590.35				09/20/11	74.59	72.68	
5,590.67				12/21/11	74.27	72.36	
5,590.34				03/27/12	74.60	72.69	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-7**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.39	5,649.26	1.87				120
5,552.56				08/25/09	96.70	94.83	
5,558.34				09/21/09	90.92	89.05	
5,558.82				11/10/09	90.44	88.57	
5,558.96				12/14/09	90.30	88.43	
5,559.54				03/11/10	89.72	87.85	
5,559.60				05/11/10	89.66	87.79	
5,559.83				09/29/10	89.43	87.56	
5,559.00				12/21/10	90.26	88.39	
5,559.68				02/28/11	89.58	87.71	
5,560.43				06/21/11	88.83	86.96	
5,560.46				09/20/11	88.80	86.93	
5,560.78				12/21/11	88.48	86.61	
5,560.92				03/27/12	88.34	86.47	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-8**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,649.35	5,651.48	2.13				160
5,589.01				08/25/09	62.47	60.34	
5,589.10				09/21/09	62.38	60.25	
5,589.09				11/03/09	62.39	60.26	
5,603.38				12/14/09	48.10	45.97	
5,589.68				03/11/10	61.80	59.67	
5,589.95				05/11/10	61.53	59.40	
5,589.74				09/29/10	61.74	59.61	
5,589.97				12/21/10	61.51	59.38	
5,589.67				02/28/11	61.81	59.68	
5,589.96				06/21/11	61.52	59.39	
5,589.82				09/20/11	61.66	59.53	
5,590.18				12/21/11	61.30	59.17	
5,589.85				03/27/12	61.63	59.50	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-9**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,645.68	5,647.45	1.77				102.5
5,582.05				08/25/09	65.40	63.63	
5,582.12				09/22/09	65.33	63.56	
5,582.27				11/10/09	65.18	63.41	
5,582.53				12/14/09	64.92	63.15	
5,582.92				03/11/10	64.53	62.76	
5,583.06				05/11/10	64.39	62.62	
5,583.25				09/29/10	64.20	62.43	
5,583.57				12/21/10	63.88	62.11	
5,583.54				02/28/11	63.91	62.14	
5,583.92				06/21/11	63.53	61.76	
5,584.04				09/20/11	63.41	61.64	
5,587.42				12/21/11	60.03	58.26	
5,584.56				03/27/12	62.89	61.12	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-10**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,664.63	5,666.98	2.35				107.5
5,584.18				08/25/09	82.80	80.45	
5,584.40				09/22/09	82.58	80.23	
5,584.61				11/10/09	82.37	80.02	
5,584.90				12/14/09	82.08	79.73	
5,585.21				03/11/10	81.77	79.42	
5,585.42				05/11/10	81.56	79.21	
5,585.42				09/29/10	81.56	79.21	
5,585.68				12/21/10	81.30	78.95	
5,585.60				02/28/11	81.38	79.03	
5,585.95				06/21/11	81.03	78.68	
5,585.92				09/20/11	81.06	78.71	
5,586.22				12/21/11	80.76	78.41	
5,586.16				03/27/12	80.82	78.47	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-11**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,683.16	5,684.53	1.37				147.5
5,613.00				11/03/09	71.53	70.16	
5,613.88				12/14/09	70.65	69.28	
5,614.65				03/11/10	69.88	68.51	
5,615.16				05/11/10	69.37	68.00	
5,614.93				09/29/10	69.60	68.23	
5,615.09				12/21/10	69.44	68.07	
5,614.96				02/28/11	69.57	68.20	
5,615.12				06/21/11	69.41	68.04	
5,614.96				09/20/11	69.57	68.20	
5,615.18				12/21/11	69.35	67.98	
5,615.11				03/27/12	69.42	68.05	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-12**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,667.03	5,668.24	1.21				115
5,628.33				11/03/09	39.91	38.70	
5,628.86				12/14/09	39.38	38.17	
5,630.27				03/11/10	37.97	36.76	
5,631.64				05/11/10	36.60	35.39	
5,633.73				09/29/10	34.51	33.30	
5,633.43				12/21/10	34.81	33.60	
5,634.35				02/28/11	33.89	32.68	
5,635.95				06/21/11	32.29	31.08	
5,636.44				09/20/11	31.80	30.59	
5,638.93				12/21/11	29.31	28.10	
5,639.69				03/27/12	28.55	27.34	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-13**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.04	5,634.32	1.28				120
5,586.95				11/03/09	47.37	46.09	
5,587.22				12/14/09	47.10	45.82	
5,587.45				03/11/10	46.87	45.59	
5,587.64				05/11/10	46.68	45.40	
5,587.37				09/29/10	46.95	45.67	
5,587.77				12/21/10	46.55	45.27	
5,587.64				02/28/11	46.68	45.40	
5,587.89				06/21/11	46.43	45.15	
5,588.03				09/20/11	46.29	45.01	
5,588.30				12/21/11	46.02	44.74	
5,588.32				03/27/12	46.00	44.72	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-14**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.80	5,649.53	1.73				135
5,586.18				11/04/09	63.35	61.62	
5,586.51				12/14/09	63.02	61.29	
5,586.71				03/11/10	62.82	61.09	
5,586.72				05/11/10	62.81	61.08	
5,586.53				09/29/10	63.00	61.27	
5,586.80				12/21/10	62.73	61.00	
5,586.74				02/28/11	62.79	61.06	
5,586.84				06/21/11	62.69	60.96	
5,586.73				09/20/11	62.80	61.07	
5,586.98				12/21/11	62.55	60.82	
5,587.07				03/27/12	62.46	60.73	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-15**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,675.01	5,676.49	1.48				155
5,594.12				11/10/09	82.37	80.89	
5,584.03				12/14/09	92.46	90.98	
5,584.10				03/11/10	92.39	90.91	
5,584.16				05/11/10	92.33	90.85	
5,584.26				09/29/10	92.23	90.75	
5,584.30				12/21/10	92.19	90.71	
5,584.04				02/28/11	92.45	90.97	
5,584.30				06/21/11	92.19	90.71	
5,584.37				09/20/11	92.12	90.64	
5,584.49				12/21/11	92.00	90.52	
5,584.47				03/27/12	92.02	90.54	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-16**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,651.07	5,652.70	1.63				100
5,603.34				11/04/09	49.36	47.73	
5,603.56				12/14/09	49.14	47.51	
5,603.84				03/11/10	48.86	47.23	
5,604.31				05/11/10	48.39	46.76	
5,604.28				09/29/10	48.42	46.79	
5,604.39				12/21/10	48.31	46.68	
5,604.20				02/28/11	48.50	46.87	
5,604.55				06/21/11	48.15	46.52	
5,604.74				09/20/11	47.96	46.33	
5,604.94				12/21/11	47.76	46.13	
5,604.84				03/27/12	47.86	46.23	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-17**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.73	5,641.55	1.82				100
5,605.96				11/04/09	35.59	33.77	
5,606.27				12/14/09	35.28	33.46	
5,606.25				03/11/10	35.30	33.48	
5,606.55				05/11/10	35.00	33.18	
5,606.77				09/29/10	34.78	32.96	
5,607.15				12/21/10	34.40	32.58	
5,606.96				02/28/11	34.59	32.77	
5,607.22				06/21/11	34.33	32.51	
5,607.40				09/20/11	34.15	32.33	
5,607.85				12/21/11	33.70	31.88	
5,607.67				03/27/12	33.88	32.06	

**Water Levels and Data over Time
White Mesa Mill - Well TWN -18**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,643.95	5,645.45	1.50				100
5,586.85				11/02/09	58.60	57.10	
5,600.14				12/14/09	45.31	43.81	
5,587.36				03/11/10	58.09	56.59	
5,587.71				05/11/10	57.74	56.24	
5,587.50				09/29/10	57.95	56.45	
5,607.66				12/21/10	37.79	36.29	
5,587.35				02/28/11	58.10	56.60	
5,587.71				06/21/11	57.74	56.24	
5,587.65				09/20/11	57.80	56.30	
5,587.95				12/21/11	57.50	56.00	
5,587.05				03/27/12	58.40	56.90	

Water Levels and Data over Time
White Mesa Mill - Well TWN-19

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,659.59	5,661.36	1.77				110
5,606.17				11/02/09	55.19	53.42	
5,606.70				12/14/09	54.66	52.89	
5,607.22				03/11/10	54.14	52.37	
5,607.89				05/11/10	53.47	51.70	
5,607.98				09/29/10	53.38	51.61	
5,608.41				12/21/10	52.95	51.18	
5,608.49				02/28/11	52.87	51.10	
5,608.60				06/21/11	52.76	50.99	
5,609.17				09/20/11	52.19	50.42	
5,608.90				12/21/11	52.46	50.69	
5,608.87				03/27/12	52.49	50.72	

Tab G

Laboratory Analytical Reports

ANALYTICAL SUMMARY REPORT

April 09, 2012

Denison Mines USA Corp
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C12010435 Quote ID: C3317 - Nitrate and Chloride Sampling
Project Name: 1st Quarter Nitrate 2012

Energy Laboratories, Inc. Casper WY received the following 30 samples for Denison Mines USA Corp on 1/13/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12010435-001	TWN-08R	01/09/12 10:25	01/13/12	Aqueous	Chloride Nitrogen, Nitrate + Nitrite
C12010435-002	TWN-12R	01/10/12 7:15	01/13/12	Aqueous	Same As Above
C12010435-003	TWN-17R	01/11/12 7:10	01/13/12	Aqueous	Same As Above
C12010435-004	TWN-08	01/09/12 10:52	01/13/12	Aqueous	Same As Above
C12010435-005	TWN-13	01/09/12 12:07	01/13/12	Aqueous	Same As Above
C12010435-006	TWN-10	01/10/12 6:30	01/13/12	Aqueous	Same As Above
C12010435-007	TWN-05	01/09/12 13:25	01/13/12	Aqueous	Same As Above
C12010435-008	TWN-01	01/09/12 14:07	01/13/12	Aqueous	Same As Above
C12010435-009	TWN-04	01/09/12 14:54	01/13/12	Aqueous	Same As Above
C12010435-010	TWN-12	01/10/12 7:41	01/13/12	Aqueous	Same As Above
C12010435-011	TWN-15	01/11/12 9:34	01/13/12	Aqueous	Same As Above
C12010435-012	TWN-06	01/10/12 9:11	01/13/12	Aqueous	Same As Above
C12010435-013	TWN-11	01/10/12 10:03	01/13/12	Aqueous	Same As Above
C12010435-014	TWN-18	01/10/12 10:52	01/13/12	Aqueous	Same As Above
C12010435-015	TWN-07	01/11/12 9:44	01/13/12	Aqueous	Same As Above
C12010435-016	TWN-16	01/10/12 12:46	01/13/12	Aqueous	Same As Above
C12010435-017	TWN-14	01/11/12 9:55	01/13/12	Aqueous	Same As Above
C12010435-018	TWN-19	01/10/12 14:19	01/13/12	Aqueous	Same As Above
C12010435-019	TWN-17	01/12/12 6:50	01/13/12	Aqueous	Same As Above
C12010435-020	TWN-09	01/12/12 7:00	01/13/12	Aqueous	Same As Above
C12010435-021	TWN-03	01/12/12 7:10	01/13/12	Aqueous	Same As Above
C12010435-022	TWN-02	01/12/12 7:18	01/13/12	Aqueous	Same As Above
C12010435-023	Piez-01	01/11/12 12:46	01/13/12	Aqueous	Same As Above
C12010435-024	Piez-02	01/11/12 12:25	01/13/12	Aqueous	Same As Above
C12010435-025	Piez-03	01/11/12 12:10	01/13/12	Aqueous	Same As Above
C12010435-026	UWLP	01/11/12 12:34	01/13/12	Aqueous	Same As Above
C12010435-027	TWN-60	01/11/12 13:50	01/13/12	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

C12010435-028	TWN-65	01/10/12 6:30	01/13/12	Aqueous	Same As Above
C12010435-029	TWN-70	01/10/12 10:03	01/13/12	Aqueous	Same As Above
C12010435-030	Temp Blank	01/12/12 0:00	01/13/12	Aqueous	Temperature

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

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

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2012.04.09 10:32:52 -06:00

CLIENT: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012
Sample Delivery Group: C12010435

Revised Date: 04/09/12

Report Date: 01/23/12

CASE NARRATIVE

REVISED/SUPPLEMENTAL REPORT

The attached analytical report has been revised from a previously submitted report due to the request by Kathy Weinel on April 9, 2012 for the correction of the collection time on sample TWN-65.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS

Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

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

BRANCH LABORATORY LOCATIONS

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

CERTIFICATIONS:

USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-001
Client Sample ID: TWN-08R

Collection Date: 01/09/12 10:25
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	01/17/12 10:58 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/16/12 13:19 / dc

Lab ID: C12010435-002
Client Sample ID: TWN-12R

Collection Date: 01/10/12 07:15
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	01/17/12 11:00 / lr
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	01/16/12 13:27 / dc

Lab ID: C12010435-003
Client Sample ID: TWN-17R

Collection Date: 01/11/12 07:10
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	01/17/12 11:02 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/16/12 13:34 / dc

Lab ID: C12010435-004
Client Sample ID: TWN-08

Collection Date: 01/09/12 10:52
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	11	mg/L		1		A4500-Cl B	01/17/12 11:04 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/16/12 13:37 / dc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-005
Client Sample ID: TWN-13

Collection Date: 01/09/12 12:07
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	46	mg/L		1		A4500-Cl B	01/17/12 11:06 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/16/12 13:39 / dc

Lab ID: C12010435-006
Client Sample ID: TWN-10

Collection Date: 01/10/12 06:30
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	44	mg/L		1		A4500-Cl B	01/17/12 11:09 / lr
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	01/16/12 13:42 / dc

Lab ID: C12010435-007
Client Sample ID: TWN-05

Collection Date: 01/09/12 13:25
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	45	mg/L		1		A4500-Cl B	01/17/12 11:12 / lr
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	01/16/12 13:44 / dc

Lab ID: C12010435-008
Client Sample ID: TWN-01

Collection Date: 01/09/12 14:07
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	15	mg/L		1		A4500-Cl B	01/17/12 11:13 / lr
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	01/16/12 13:47 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-009
Client Sample ID: TWN-04

Collection Date: 01/09/12 14:54
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	20	mg/L		1		A4500-Cl B	01/17/12 11:22 / lr
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	01/16/12 13:49 / dc

Lab ID: C12010435-010
Client Sample ID: TWN-12

Collection Date: 01/10/12 07:41
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	104	mg/L		1		A4500-Cl B	01/17/12 11:26 / lr
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	01/16/12 13:52 / dc

Lab ID: C12010435-011
Client Sample ID: TWN-15

Collection Date: 01/11/12 09:34
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		A4500-Cl B	01/17/12 11:29 / lr
Nitrogen, Nitrate+Nitrite as N	1.5	mg/L		0.1		E353.2	01/16/12 13:54 / dc

Lab ID: C12010435-012
Client Sample ID: TWN-06

Collection Date: 01/10/12 09:11
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	20	mg/L		1		A4500-Cl B	01/17/12 11:31 / lr
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	01/16/12 14:04 / dc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-013
Client Sample ID: TWN-11

Collection Date: 01/10/12 10:03
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	69	mg/L		1		A4500-Cl B	01/17/12 11:35 / lr
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	01/16/12 14:12 / dc

Lab ID: C12010435-014
Client Sample ID: TWN-18

Collection Date: 01/10/12 10:52
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	64	mg/L		1		A4500-Cl B	01/17/12 11:38 / lr
Nitrogen, Nitrate+Nitrite as N	1.9	mg/L		0.1		E353.2	01/16/12 14:14 / dc

Lab ID: C12010435-015
Client Sample ID: TWN-07

Collection Date: 01/11/12 09:44
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	5	mg/L		1		A4500-Cl B	01/17/12 11:41 / lr
Nitrogen, Nitrate+Nitrite as N	2.3	mg/L		0.1		E353.2	01/16/12 14:17 / dc

Lab ID: C12010435-016
Client Sample ID: TWN-16

Collection Date: 01/10/12 12:46
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	33	mg/L		1		A4500-Cl B	01/17/12 11:43 / lr
Nitrogen, Nitrate+Nitrite as N	2.8	mg/L		0.1		E353.2	01/16/12 14:19 / dc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-017
Client Sample ID: TWN-14

Collection Date: 01/11/12 09:55
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	26	mg/L		1		A4500-Cl B	01/17/12 11:45 / lr
Nitrogen, Nitrate+Nitrite as N	3.5	mg/L		0.1		E353.2	01/16/12 14:22 / dc

Lab ID: C12010435-018
Client Sample ID: TWN-19

Collection Date: 01/10/12 14:19
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	114	mg/L		1		A4500-Cl B	01/17/12 11:49 / lr
Nitrogen, Nitrate+Nitrite as N	7.0	mg/L	D	0.5		E353.2	01/17/12 12:34 / dc

Lab ID: C12010435-019
Client Sample ID: TWN-17

Collection Date: 01/12/12 06:50
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	79	mg/L		1		A4500-Cl B	01/17/12 12:01 / lr
Nitrogen, Nitrate+Nitrite as N	8.7	mg/L	D	0.5		E353.2	01/17/12 12:37 / dc

Lab ID: C12010435-020
Client Sample ID: TWN-09

Collection Date: 01/12/12 07:00
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	202	mg/L		1		A4500-Cl B	01/17/12 12:03 / lr
Nitrogen, Nitrate+Nitrite as N	12.2	mg/L	D	0.5		E353.2	01/17/12 12:39 / dc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-021
Client Sample ID: TWN-03

Collection Date: 01/12/12 07:10
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	143	mg/L		1		A4500-Cl B	01/17/12 12:05 / lr
Nitrogen, Nitrate+Nitrite as N	25	mg/L	D	2		E353.2	01/17/12 12:42 / dc

Lab ID: C12010435-022
Client Sample ID: TWN-02

Collection Date: 01/12/12 07:18
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	86	mg/L		1		A4500-Cl B	01/17/12 12:08 / lr
Nitrogen, Nitrate+Nitrite as N	31	mg/L	D	2		E353.2	01/17/12 12:44 / dc

Lab ID: C12010435-023
Client Sample ID: Piez-01

Collection Date: 01/11/12 12:46
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	78	mg/L		1		A4500-Cl B	01/17/12 12:10 / lr
Nitrogen, Nitrate+Nitrite as N	7.1	mg/L	D	0.5		E353.2	01/17/12 12:47 / dc

Lab ID: C12010435-024
Client Sample ID: Piez-02

Collection Date: 01/11/12 12:25
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	9	mg/L		1		A4500-Cl B	01/17/12 12:12 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	01/17/12 12:49 / dc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-025
Client Sample ID: Piez-03

Collection Date: 01/11/12 12:10
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	20	mg/L		1		A4500-Cl B	01/17/12 12:28 / lr
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	01/17/12 12:52 / dc

Lab ID: C12010435-026
Client Sample ID: UWLP

Collection Date: 01/11/12 12:34
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	2	mg/L		1		A4500-Cl B	01/17/12 12:30 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/17/12 12:54 / dc

Lab ID: C12010435-027
Client Sample ID: TWN-60

Collection Date: 01/11/12 13:50
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	01/17/12 12:32 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	01/17/12 13:02 / dc

Lab ID: C12010435-028
Client Sample ID: TWN-65

Collection Date: 01/10/12 06:30
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	40	mg/L		1		A4500-Cl B	01/17/12 12:36 / lr
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	01/17/12 13:09 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 1st Quarter Nitrate 2012

Revised Date: 04/09/12
Report Date: 01/23/12

Lab ID: C12010435-029
Client Sample ID: TWN-70

Collection Date: 01/10/12 10:03
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	74	mg/L		1		A4500-Cl B	01/17/12 12:42 / lr
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	01/17/12 13:12 / dc

Lab ID: C12010435-030
Client Sample ID: Temp Blank

Collection Date: 01/12/12
DateReceived: 01/13/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	2.4	°C				E170.1	01/13/12 10:00 / kbh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Revised Date: 04/09/12

Report Date: 01/23/12

Client: Denison Mines USA Corp

Project: 1st Quarter Nitrate 2012

Work Order: C12010435

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-Cl B								Batch: 120117A-CL-TTR-W			
Sample ID: MBLK9-120117A	Method Blank										
Chloride		ND	mg/L	1.0						Run: TITRATION_120117A 01/17/12 10:45	
Sample ID: C12010435-008AMS	Sample Matrix Spike										
Chloride		51.4	mg/L	1.0	103	90	110			Run: TITRATION_120117A 01/17/12 11:15	
Sample ID: C12010435-008AMSD	Sample Matrix Spike Duplicate										
Chloride		51.8	mg/L	1.0	104	90	110	0.7	10	Run: TITRATION_120117A 01/17/12 11:17	
Sample ID: C12010435-018AMS	Sample Matrix Spike										
Chloride		294	mg/L	1.0	101	90	110			Run: TITRATION_120117A 01/17/12 11:50	
Sample ID: C12010435-018AMSD	Sample Matrix Spike Duplicate										
Chloride		292	mg/L	1.0	100	90	110	0.6	10	Run: TITRATION_120117A 01/17/12 11:52	
Sample ID: LCS35-120117A	Laboratory Control Sample										
Chloride		3560	mg/L	1.0	100	90	110			Run: TITRATION_120117A 01/17/12 11:54	
Sample ID: C12010435-028AMS	Sample Matrix Spike										
Chloride		128	mg/L	1.0	99	90	110			Run: TITRATION_120117A 01/17/12 12:38	
Sample ID: C12010435-028AMSD	Sample Matrix Spike Duplicate										
Chloride		129	mg/L	1.0	100	90	110	0.7	10	Run: TITRATION_120117A 01/17/12 12:40	
Sample ID: C12010435-029AMS	Sample Matrix Spike										
Chloride		254	mg/L	1.0	101	90	110			Run: TITRATION_120117A 01/17/12 12:45	
Sample ID: C12010435-029AMSD	Sample Matrix Spike Duplicate										
Chloride		257	mg/L	1.0	103	90	110	1.4	10	Run: TITRATION_120117A 01/17/12 12:48	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Revised Date: 04/09/12

Report Date: 01/23/12

Work Order: C12010435

Client: Denison Mines USA Corp

Project: 1st Quarter Nitrate 2012

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										
Batch: R155395										
Sample ID: MBLK-1	Method Blank									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Run: TECHNICON_120116A										
01/16/12 12:44										
Sample ID: LCS-2	Laboratory Control Sample									
Nitrogen, Nitrate+Nitrite as N		2.44	mg/L	0.10	98	90	110			
Run: TECHNICON_120116A										
01/16/12 12:47										
Sample ID: LFB-3	Laboratory Fortified Blank									
Nitrogen, Nitrate+Nitrite as N		1.96	mg/L	0.10	100	90	110			
Run: TECHNICON_120116A										
01/16/12 12:49										
Sample ID: C12010435-002BMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		2.22	mg/L	0.10	105	90	110			
Run: TECHNICON_120116A										
01/16/12 13:29										
Sample ID: C12010435-002BMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		2.26	mg/L	0.10	107	90	110	1.8	10	
Run: TECHNICON_120116A										
01/16/12 13:32										
Sample ID: C12010435-012BMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		3.20	mg/L	0.10	106	90	110			
Run: TECHNICON_120116A										
01/16/12 14:07										
Sample ID: C12010435-012BMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		3.15	mg/L	0.10	103	90	110	1.6	10	
Run: TECHNICON_120116A										
01/16/12 14:09										
Method: E353.2										
Batch: R155429										
Sample ID: MBLK-1	Method Blank									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Run: TECHNICON_120117A										
01/17/12 12:19										
Sample ID: LCS-2	Laboratory Control Sample									
Nitrogen, Nitrate+Nitrite as N		2.55	mg/L	0.10	102	90	110			
Run: TECHNICON_120117A										
01/17/12 12:22										
Sample ID: LFB-3	Laboratory Fortified Blank									
Nitrogen, Nitrate+Nitrite as N		2.00	mg/L	0.10	102	90	110			
Run: TECHNICON_120117A										
01/17/12 12:24										
Sample ID: C12010435-027BMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	105	90	110			
Run: TECHNICON_120117A										
01/17/12 13:04										
Sample ID: C12010435-027BMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		2.10	mg/L	0.10	107	90	110	2.4	10	
Run: TECHNICON_120117A										
01/17/12 13:07										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



C12010435

Login completed by: Edith McPike
Reviewed by: BL2000\kschroeder
Reviewed Date: 1/13/2012

Date Received: 1/13/2012

Received by: em

Carrier FedEx
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 2.4°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc. 1st Quarter Nitrate 2012	Sample Origin State: UT	EPA/State Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: PO BOX 809 Blanding UT 84511	Contact Name: Tanner Holliday Phone/Fax: 435 678 2221	Email:	Sampler: (Please Print) Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: David Turk 435 678 2221	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:			ANALYSIS REQUESTED	SEE ATTACHED	Standard Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Teck
<input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> State: _____ <input type="checkbox"/> NELAC <input type="checkbox"/> Other: _____							Quote # C3317	Comments:
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX					Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
¹ TWN-08 R	1-9-12	1025	2-W	X				
² TWN-12 R	1-10-12	0715	2-W	X				
³ TWN-17 R	1-11-12	0710	2-W	X				
⁴ TWN-08	1-9-12	1052	2-W	X				
⁵ TWN-13	1-9-12	1207	2-W	X				
⁶ TWN-10	1-10-12	0630	2-W	X				
⁷ TWN-05	1-9-12	1325	2-W	X				
⁸ TWN-01	1-9-12	1407	2-W	X				
⁹ TWN-04	1-9-12	1454	2-W	X				
¹⁰ TWN-12	1-10-12	0741	2-W	X				

Custody Record MUST be Signed	Relinquished by (print): Tanner Holliday Date/Time: 1/12/2012 1100 Signature: Tanner Holliday	Received by (print): _____ Date/Time: _____ Signature: _____
	Relinquished by (print): _____ Date/Time: _____ Signature: _____	Received by (print): _____ Date/Time: _____ Signature: _____
	Sample Disposal: Return to Client Lab Disposal: _____	Received by Laboratory: [Signature] Date/Time: 1/13/12 10.01 Signature: _____

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LABORATORY USE ONLY

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Report Mail Address:	Contact Name:	State:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address:	Phone/Fax:	Email:	Sampler: (Please Print)
	Invoice Contact & Phone	Purchase Order:	Quote/Bottle Order:

Same as Page 1

Special Report/Formats: <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/MWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC	Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water	ANALYSIS REQUESTED										SEE ATTACHED Standard Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: <i>Tanner Holliday</i> Cooler ID(s):			
		Comments:												Receipt Temp 24 °C				
On Ice: <input checked="" type="radio"/> Y <input type="radio"/> N												Custody Seal On Bottle <input checked="" type="checkbox"/> Y <input type="checkbox"/> N On Cooler <input type="checkbox"/> Y <input checked="" type="checkbox"/> N						
Intact Signature Match <input checked="" type="checkbox"/> Y <input type="checkbox"/> N												LABORATORY USE ONLY						
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C3317														
1 TWN-15	1-11-12	0934	2-W	X														
2 TWN-06	1-10-12	0911	2-W	X														
3 TWN-11	1-10-12	1003	2-W	X														
4 TWN-18	1-10-12	1052	2-W	X														
5 TWN-07	1-11-12	0944	2-W	X														
6 TWN-16	1-10-12	1246	2-W	X														
7 TWN-14	1-11-12	0955	2-W	X														
8 TWN-19	1-10-12	1419	2-W	X														
9 TWN-17	1-12-12	0650	2-W	X														
10 TWN-09	1-12-12	0700	2-W	X														

Custody Record MUST be Signed	Relinquished by (print): <i>Tanner Holliday</i> Date/Time: <i>1/12/2012 1100</i> Signature: <i>Tanner Holliday</i>	Received by (print): _____ Date/Time: _____ Signature: _____
	Relinquished by (print): _____ Date/Time: _____ Signature: _____	Received by (print): _____ Date/Time: _____ Signature: _____
	Sample Disposal: Return to Client: _____ Lab Disposal: _____	Received by (print): <i>[Signature]</i> Date/Time: <i>1/13/12 10:0</i> Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Report Mail Address:	Contact Name:	State:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address:	Phone/Fax:	Email:	Sampler: (Please Print)
	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Same as Page 1

Special Report/Formats:			ANALYSIS REQUESTED	SEE ATTACHED	Standard Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: <i>J. Holliday</i>
<input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> State: _____ <input type="checkbox"/> NELAC <input type="checkbox"/> Other: _____							Quote # <i>C3317</i>	Comments:
Number of Containers: _____ Sample Type: <input type="checkbox"/> A <input type="checkbox"/> W <input type="checkbox"/> S <input type="checkbox"/> V <input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> DW <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other <input type="checkbox"/> DW - Drinking Water								Custody Seal On Bottle: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N On Cooler: <input type="checkbox"/> Y <input type="checkbox"/> N Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX					
<i>1 TWN-03</i>	<i>1-12-12</i>	<i>0710</i>	<i>2-W</i>	<i>X</i>				
<i>2 TWN-02</i>	<i>1-12-12</i>	<i>0718</i>	<i>2-W</i>	<i>X</i>				
<i>3 Piez-01</i>	<i>1-11-12</i>	<i>1246</i>	<i>2-W</i>	<i>X</i>				
<i>4 Piez-02</i>	<i>1-11-12</i>	<i>1225</i>	<i>2-W</i>	<i>X</i>				
<i>5 Piez-03</i>	<i>1-11-12</i>	<i>1210</i>	<i>2-W</i>	<i>X</i>				
<i>6 UWLP</i>	<i>1-11-12</i>	<i>1234</i>	<i>2-W</i>	<i>X</i>				
<i>7 TWN-60</i>	<i>1-11-12</i>	<i>1350</i>	<i>2-W</i>	<i>X</i>				
<i>8 TWN-65</i>	<i>1-10-12</i>	<i>0630</i>	<i>2-W</i>	<i>X</i>				
<i>9 TWN-70</i>	<i>1-10-12</i>	<i>1003</i>	<i>2-W</i>	<i>X</i>				
<i>10 Temp Blank</i>								

LABORATORY USE ONLY

Custody Record MUST be Signed	Relinquished by (print): <i>Tanner Holliday</i> Date/Time: <i>1/12/2012 1100</i> Signature: <i>Tanner Holliday</i>	Received by (print): _____ Date/Time: _____ Signature: _____
	Relinquished by (print): _____ Date/Time: _____ Signature: _____	Received by (print): _____ Date/Time: _____ Signature: _____
	Sample Disposal: <u>Return to Client:</u> Lab Disposal: _____	Received by Laboratory: <i>[Signature]</i> Date/Time: <i>1/13/12 10:00</i> Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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Tab H

Quality Assurance and Data Validation Tables

H-1 Field Data QA/QC Evaluation

Location	2x Casing Volume	Volume Pumped	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD	
Piezometer 1		--		2155.0		NC	7.79		NC	11.82		NC	275		NC	3.6		NC	
Piezometer 2		--		532.9		NC	8.97		NC	11.70		NC	172		NC	8.7		NC	
Piezometer 3		--		3071.0		NC	11.88		NC	10.40		NC	193		NC	17.1		NC	
TWN-1	39.58	79.16	88.00	OK	838.0	838.0	0.00	7.18	7.19	0.14	14.60	14.60	0.00	284	282	0.71	141.0	142.0	0.71
TWN-2	48.08	96.16	55.00	Pumped Dry	2667.0		NC	6.40		NC	13.84		NC	296		NC	11.6		NC
TWN-3	41.08	82.16	39.00	Pumped Dry	2268.0		NC	6.65		NC	13.49		NC	279		NC	100.0		NC
TWN-4	55.83	111.66	132.00	OK	1018.0	1019.0	0.10	7.00	7.00	0.00	14.28	14.28	0.00	271	271	0.00	290.0	295.0	1.71
TWN-5	52.43	104.86	110.00	OK	3071.0	3072.0	0.03	6.66	6.67	0.15	14.49	14.49	0.00	305	303	0.66	2.9	2.9	0.00
TWN-6	35.71	71.42	77.00	OK	1573.0	1568.0	0.32	6.74	6.75	0.15	14.34	14.33	0.07	349	348	0.29	19.0	18.0	5.41
TWN-7	10.7	21.40	8.00	Pumped Dry	1164.0		NC	6.91		NC	13.77		NC	347		NC	18.5		NC
TWN-8	54.72	109.44	121.00	OK	2369.0	2399.0	1.26	7.24	7.22	0.28	14.29	14.29	0.00	159	159	0.00	2.4	2.4	NC
TWN-9	22.16	44.32	22.00	Pumped Dry	2286.0		NC	6.50		NC	13.73		NC	325		NC	36.1		NC
TWN-10	15.65	31.30	16.50	Pumped Dry	2687.0		NC	3.62		NC	13.69		NC	471		NC	166.0		NC
TWN-11	46.82	93.64	110.00	OK	2650.0	2650.0	0.00	6.53	6.53	0.00	13.43	13.41	0.15	300	298	0.67	2.1	2.1	0.00
TWN-12	52.81	105.62	121.00	OK	2458.0	2454.0	0.16	6.99	6.98	0.14	13.87	13.87	0.00	264	258	2.30	151.0	153.0	1.32
TWN-13	48.19	96.38	110.00	OK	1223.0	1230.0	0.57	7.65	7.66	0.13	14.38	14.38	0.00	208	207	0.48	59.0	60.0	1.68
TWN-14	46.78	93.56	44.00	Pumped Dry	999.7		NC	7.51		NC	14.12		NC	313		NC	56.1		NC
TWN-15	40.62	81.24	48.00	Pumped Dry	1401.0		NC	6.76		NC	14.04		NC	376		NC	33.1		NC
TWN-16	33.62	67.24	77.00	OK	1765.0	1739.0	1.48	6.87	6.87	0.00	14.80	14.80	0.00	330	330	0.00	12.1	12.1	0.00
TWN-17	49.36	98.72	53.00	Pumped Dry	1127.0		NC	7.17		NC	14.07		NC	327		NC	79.1		NC
TWN-18	56.91	113.82	121.00	OK	2179.0	2182.0	0.14	6.76	6.76	0.00	14.17	14.17	0.00	312	312	0.00	105.0	106.0	0.95
TWN-19	37.49	74.98	77.00	OK	1970.0	1972.0	0.10	7.14	7.13	0.14	14.50	14.51	0.07	325	325	0.00	2.8	2.8	0.00
UWLP		--			248.0		NC	8.72		NC	5.48		NC	244		NC	2.5		NC

Piezometers 1, 2, and 3 were not pumped, only one set of parameters were taken.

TWN-2, TWN-3, TWN-7, TWN-9, TWN-14, TWN-15, and TWN-17 were purged to dryness before 2 casing volumes were removed. TWN-10 was purged to dryness after 2 casing volumes were removed.

UWLP is a pond grab sample, no pumping was required and stabilization parameters are not applicable

RPD > than 10%

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU below are included for information purposes only.

H-2: Holding Time Evaluation

Location	Constituent	Sample Collection Date	Lab Analysis Data	Holding Time	Allowed Holding Time	Holding Time Check
Piezometer 01	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
Piezometer 01	Nitrogen	1/11/12	1/17/12	6.00 days	28 days	OK
Piezometer 02	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
Piezometer 02	Nitrogen	1/11/12	1/17/12	6.00 days	28 days	OK
Piezometer 03	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
Piezometer 03	Nitrogen	1/11/12	1/17/12	6.00 days	28 days	OK
TWN-01	Chloride	1/9/12	1/17/12	8.00 days	28 days	OK
TWN-01	Nitrogen	1/9/12	1/16/12	7.00 days	28 days	OK
TWN-02	Chloride	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-02	Nitrogen	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-03	Chloride	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-03	Nitrogen	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-04	Chloride	1/9/12	1/17/12	8.00 days	28 days	OK
TWN-04	Nitrogen	1/9/12	1/16/12	7.00 days	28 days	OK
TWN-05	Chloride	1/9/12	1/17/12	8.00 days	28 days	OK
TWN-05	Nitrogen	1/9/12	1/16/12	7.00 days	28 days	OK
TWN-06	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-06	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-07	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
TWN-07	Nitrogen	1/11/12	1/16/12	5.00 days	28 days	OK
TWN-08	Chloride	1/9/12	1/17/12	8.00 days	28 days	OK
TWN-08	Nitrogen	1/9/12	1/16/12	7.00 days	28 days	OK
TWN-09	Chloride	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-09	Nitrogen	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-10	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-10	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-11	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-11	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-12	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-12	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-13	Chloride	1/9/12	1/17/12	8.00 days	28 days	OK
TWN-13	Nitrogen	1/9/12	1/16/12	7.00 days	28 days	OK
TWN-14	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
TWN-14	Nitrogen	1/11/12	1/16/12	5.00 days	28 days	OK
TWN-15	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
TWN-15	Nitrogen	1/11/12	1/16/12	5.00 days	28 days	OK
TWN-16	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-16	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-17	Chloride	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-17	Nitrogen	1/12/12	1/17/12	5.00 days	28 days	OK
TWN-18	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-18	Nitrogen	1/10/12	1/16/12	6.00 days	28 days	OK
TWN-19	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-19	Nitrogen	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-65	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-65	Nitrogen	1/10/12	1/17/12	7.00 days	28 days	OK
UWLP	Chloride	1/11/12	1/17/12	6.00 days	28 days	OK
UWLP	Nitrogen	1/11/12	1/17/12	6.00 days	28 days	OK
TWN-70	Chloride	1/10/12	1/17/12	7.00 days	28 days	OK
TWN-70	Nitrogen	1/10/12	1/17/12	7.00 days	28 days	OK

H-3: Analytical Method Check

Parameter	Method	Method Used by Lab
Nitrate	E353.2	E353.2
Chloride	A4500-Cl B	A4500-Cl B

Both Nitrate and Chloride were analyzed with the correct analytical method.

H-4: Reporting Limit Evaluation

Location	Constituent	Sampling Result	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier
Piezometer 01	Chloride	78 mg/L	1 mg/L	1 mg/L	
Piezometer 01	Nitrogen	7.1 mg/L	0.5 mg/L	0.1 mg/L	D
Piezometer 02	Chloride	9 mg/L	1 mg/L	1 mg/L	
Piezometer 02	Nitrogen	0.1 mg/L	0.1 mg/L	0.1 mg/L	
Piezometer 03	Chloride	20 mg/L	1 mg/L	1 mg/L	
Piezometer 03	Nitrogen	1.8 mg/L	0.1 mg/L	0.1 mg/L	
TWN-01	Chloride	15 mg/L	1 mg/L	1 mg/L	
TWN-01	Nitrogen	0.6 mg/L	0.1 mg/L	0.1 mg/L	
TWN-02	Chloride	86 mg/L	1 mg/L	1 mg/L	
TWN-02	Nitrogen	31 mg/L	2 mg/L	0.1 mg/L	D
TWN-03	Chloride	143 mg/L	1 mg/L	1 mg/L	
TWN-03	Nitrogen	25 mg/L	2 mg/L	0.1 mg/L	D
TWN-04	Chloride	20 mg/L	1 mg/L	1 mg/L	
TWN-04	Nitrogen	0.9 mg/L	0.1 mg/L	0.1 mg/L	
TWN-05	Chloride	45 mg/L	1 mg/L	1 mg/L	
TWN-05	Nitrogen	0.2 mg/L	0.1 mg/L	0.1 mg/L	
TWN-06	Chloride	20 mg/L	1 mg/L	1 mg/L	
TWN-06	Nitrogen	1.2 mg/L	0.1 mg/L	0.1 mg/L	
TWN-07	Chloride	5 mg/L	1 mg/L	1 mg/L	
TWN-07	Nitrogen	2.3 mg/L	0.1 mg/L	0.1 mg/L	
TWN-08	Chloride	11 mg/L	1 mg/L	1 mg/L	
TWN-08	Nitrogen	0 mg/L	0.1 mg/L	0.1 mg/L	U
TWN-09	Chloride	202 mg/L	1 mg/L	1 mg/L	
TWN-09	Nitrogen	12.2 mg/L	0.5 mg/L	0.1 mg/L	D
TWN-10	Chloride	44 mg/L	1 mg/L	1 mg/L	
TWN-10	Nitrogen	0.8 mg/L	0.1 mg/L	0.1 mg/L	
TWN-11	Chloride	69 mg/L	1 mg/L	1 mg/L	
TWN-11	Nitrogen	1.6 mg/L	0.1 mg/L	0.1 mg/L	
TWN-12	Chloride	104 mg/L	1 mg/L	1 mg/L	
TWN-12	Nitrogen	0.9 mg/L	0.1 mg/L	0.1 mg/L	
TWN-13	Chloride	46 mg/L	1 mg/L	1 mg/L	
TWN-13	Nitrogen	0 mg/L	0.1 mg/L	0.1 mg/L	U
TWN-14	Chloride	26 mg/L	1 mg/L	1 mg/L	
TWN-14	Nitrogen	3.5 mg/L	0.1 mg/L	0.1 mg/L	
TWN-15	Chloride	38 mg/L	1 mg/L	1 mg/L	
TWN-15	Nitrogen	1.5 mg/L	0.1 mg/L	0.1 mg/L	
TWN-16	Chloride	33 mg/L	1 mg/L	1 mg/L	
TWN-16	Nitrogen	2.8 mg/L	0.1 mg/L	0.1 mg/L	
TWN-17	Chloride	79 mg/L	1 mg/L	1 mg/L	
TWN-17	Nitrogen	8.7 mg/L	0.5 mg/L	0.1 mg/L	D
TWN-18	Chloride	64 mg/L	1 mg/L	1 mg/L	
TWN-18	Nitrogen	1.9 mg/L	0.1 mg/L	0.1 mg/L	
TWN-19	Chloride	114 mg/L	1 mg/L	1 mg/L	
TWN-19	Nitrogen	7 mg/L	0.5 mg/L	0.1 mg/L	D
TWN-65	Chloride	40 mg/L	1 mg/L	1 mg/L	
TWN-65	Nitrogen	0.7 mg/L	0.1 mg/L	0.1 mg/L	
UWLP	Chloride	2 mg/L	1 mg/L	1 mg/L	
UWLP	Nitrogen	0 mg/L	0.1 mg/L	0.1 mg/L	U
TWN-70	Chloride	74 mg/L	1 mg/L	1 mg/L	
TWN-70	Nitrogen	1.6 mg/L	0.1 mg/L	0.1 mg/L	

U = Analyte was not detected at the RL

D = RL was increased due to sample matrix or required dilution due to the sample concentration. In all cases the analytical results were greater than the reporting limit used.

H-7 Receipt Temperature Evaluation

Sample Batch	Wells in Batch	Temperature
C12010435	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-5, TWN-6, TWN-7, TWN-8, TWN-8R, TWN-9, TWN-10, TWN-11, TWN-12, TWN-12R, TWN-13, TWN-14, TWN-15, TWN-16, TWN-17, TWN-17R, TWN-18, TWN-19, TWN-60, TWN-65, TWN-70, UWLP	2.4 °C

H-8 Rinsate Evaluation

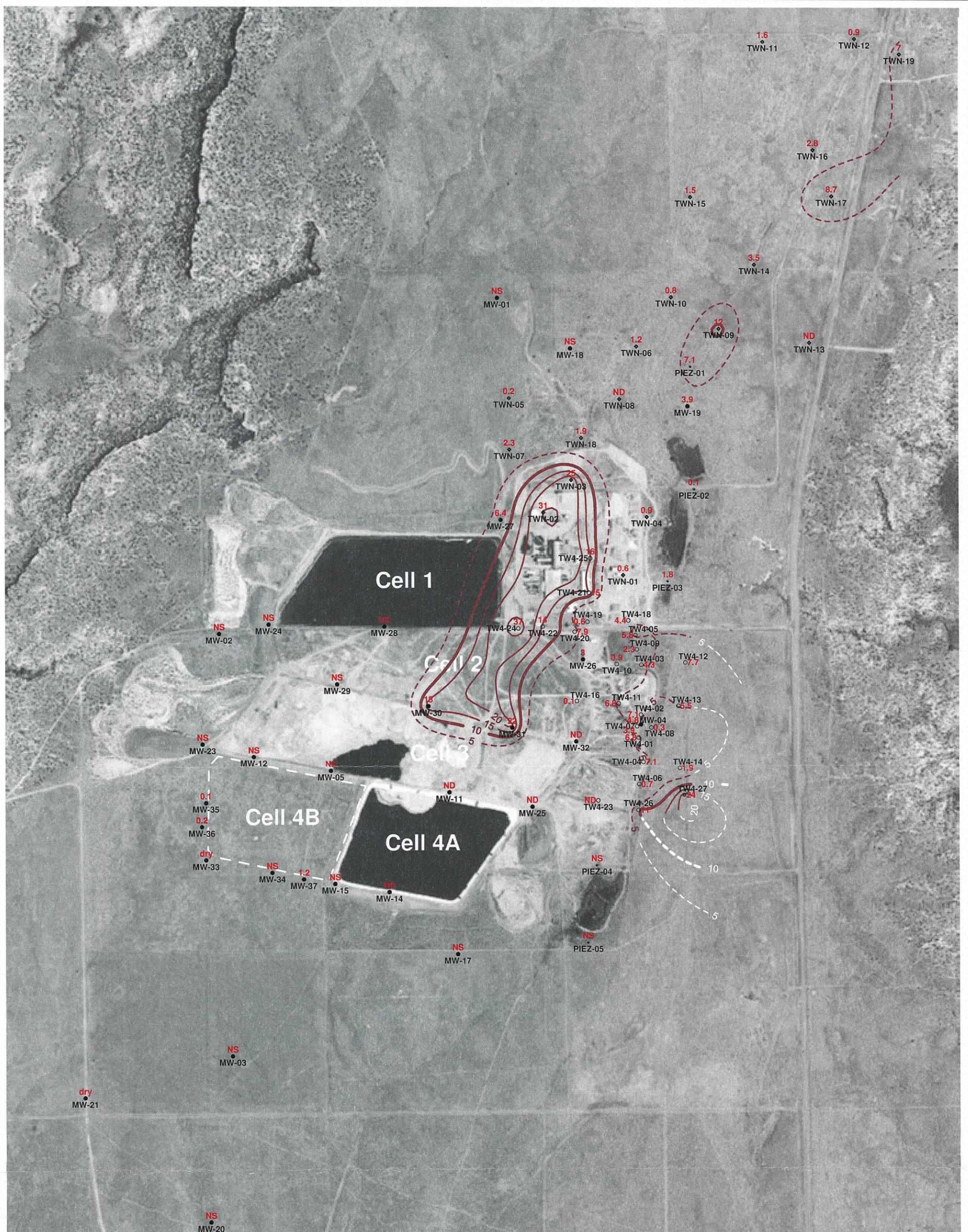
Rinsate Sample	Parameter	Rinsate Result		Previous Well Sample	Result for Well		Qualifier	Reporting Limit
TWN-8R	Nitrogen	ND	mg/L	N/A	NA			0.1 mg/L
TWN-8R	Chloride	ND	mg/L	N/A	NA			1 mg/L
TWN-12R	Nitrogen	0.2	mg/L	TWN-04	0.9	mg/L		0.1 mg/L
TWN-12R	Chloride	ND	mg/L	TWN-04	20	mg/L		1 mg/L
TWN-17R	Nitrogen	ND	mg/L	TWN-19	7	mg/L	D	0.1 mg/L
TWN-17R	Chloride	ND	mg/L	TWN-19	114	mg/L		1 mg/L
TWN-60	Nitrogen	ND	mg/L	Piez-01	7.1	mg/L	D	0.1 mg/L
TWN-60	Chloride	ND	mg/L	Piez-01	78	mg/L		1 mg/L

The Rinsate sample identified in Column 1 was collected after the pump was used to purge the well identified as "Previous Well Sampled" in Column 4

D = Reporting limit raised due to dilution/sample matrix.

Tab I

Kriged Current Quarter Isoconcentration Maps



EXPLANATION

NS = not sampled; ND = not detected

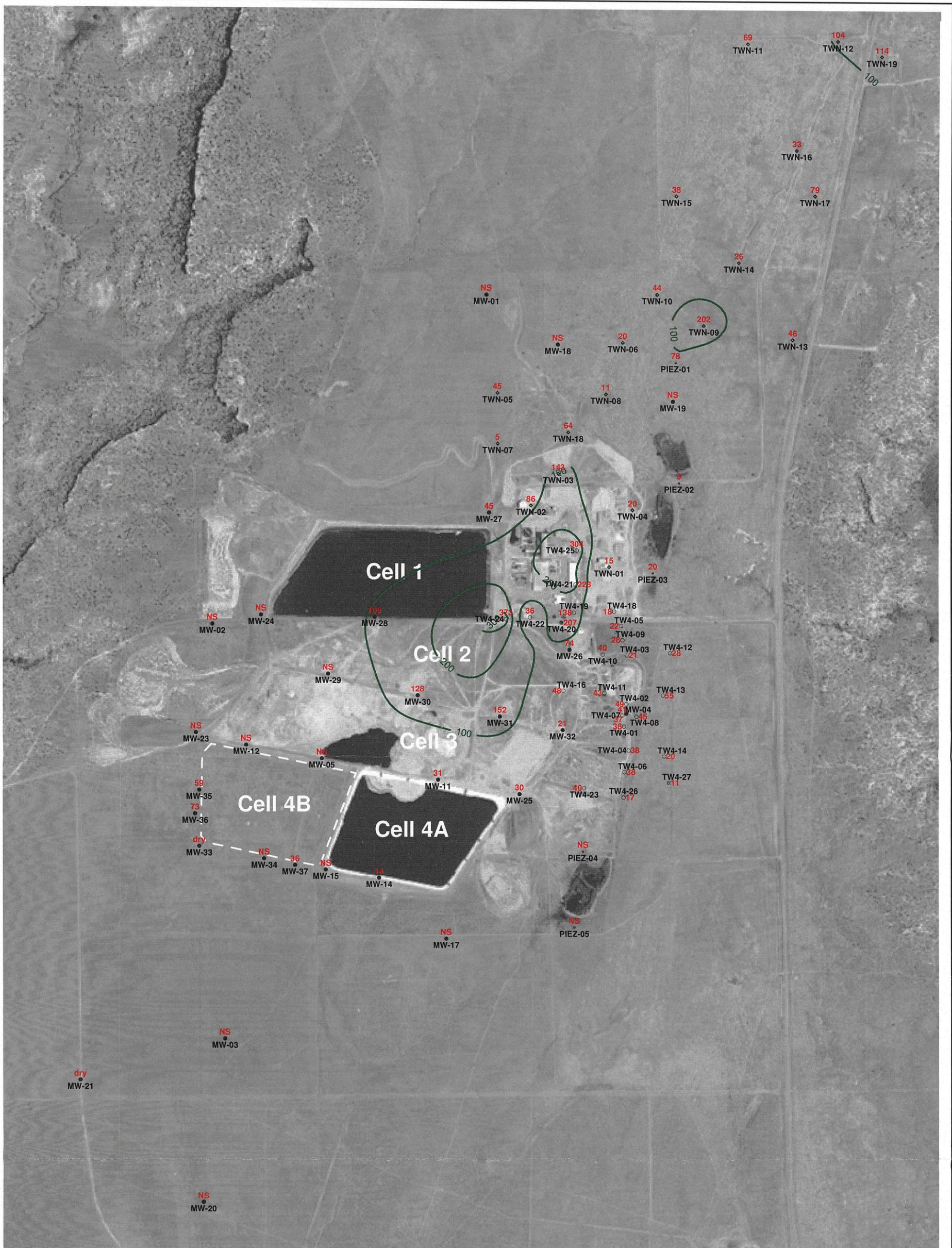
- 10 kriged nitrate isocon and label
- 10 kriged nitrate isocon and label (extent uncertain)
- MW-4 perched monitoring well showing concentration in mg/L
- TW4-1 temporary perched monitoring well showing concentration in mg/L
- TWN-1 temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 perched piezometer showing concentration in mg/L
- TW4-27 temporary perched monitoring well installed October 2011 showing concentration in mg/L



**HYDRO
GEO
CHEM, INC.**

**KRIGED 1st QUARTER, 2012 NITRATE (mg/L)
(NITRATE + NITRITE AS N)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/nitrate/Unt0312c2.srf	I - 1



EXPLANATION

NS = not sampled; ND = not detected

- MW-4
● 41 perched monitoring well showing concentration in mg/L
- TW4-1
○ 38 temporary perched monitoring well showing concentration in mg/L
- TWN-1
◇ 15 temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1
● 78 perched piezometer showing concentration in mg/L
- TW4-27
⊗ 11 temporary perched monitoring well installed October, 2011 showing concentration in mg/L



**HYDRO
GEO
CHEM, INC.**

**KRIGED 1st QUARTER, 2012 CHLORIDE (mg/L)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/chloride/Ucl0312.srf	I - 2

Tab J

Analyte Concentrations Over Time

TWN-1

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	0.7	19
7/21/2009	0.4	17
9/21/2009	0.4	19
10/28/2009	0.5	18
3/17/2010	0.5	17
5/26/2010	0.6	20
9/27/2010	0.6	19
12/7/2010	0.6	14
1/26/2011	0.5	17
4/20/2011	0.5	19
7/26/2011	0.5	14
10/17/2011	0.5	10
1/9/2012	0.6	15

TWN-2

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	25.4	29
7/21/2009	25	25
9/21/2009	22.6	17
11/2/2009	20.8	55
3/24/2010	62.1	85
6/2/2010	69	97
9/29/2010	69	104
12/9/2010	48	93
2/1/2011	43	93
4/28/2011	40	85
7/28/2011	33	74
10/20/2011	33	76
1/12/2012	31	86

TWN-3

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	23.6	96
7/21/2009	25.3	96
9/21/2009	27.1	99
11/2/2009	29	106
3/25/2010	25.3	111
6/3/2010	26	118
7/15/2010	27	106
12/10/2010	24	117
2/1/2011	24	138
4/28/2011	26	128
7/29/2011	25	134
10/20/2011	25	129
1/12/2012	25	143

TWN-4

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	1	13
7/21/2009	0.05	12
9/21/2009	0.4	13
10/28/2009	0.4	11
3/16/2010	0.9	22
5/27/2010	1.0	22
9/27/2010	0.9	19
12/8/2010	1	21
1/25/2011	0.9	21
4/20/2011	0.9	21
7/26/2011	1.1	35
10/18/2011	0.9	20
1/9/2012	0.9	20

TWN-5

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	0.22	42
9/21/2009	0.5	45
11/10/2009	0.2	48
3/16/2010	0.3	43
5/26/2010	0.3	44
7/12/2010	0.3	43
12/7/2010	0.3	45
1/25/2011	0.4	47
4/20/2011	0.3	44
7/26/2011	0.3	44
10/17/2011	0.3	45
1/9/2012	0.2	45

TWN-6

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	3.2	32
9/22/2009	1.6	13
11/3/2009	1.4	21
3/23/2010	1.5	19
6/1/2010	1.4	22
7/13/2010	1.4	73
12/8/2010	1.2	21
1/26/2011	1.1	18
4/20/2011	1.5	22
7/27/2011	1.1	17
10/18/2011	1.4	21
1/10/2012	1.2	20

TWN-7

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	ND	11
9/21/2009	ND	7
11/10/2009	0.1	7
3/17/2010	0.8	6
5/28/2010	1.2	6
7/14/2010	1.6	7
12/10/2010	1	4
1/27/2011	1.3	6
4/21/2011	1.7	6
7/29/2011	0.7	5
10/19/2011	2.2	6
1/11/2012	2.3	5

TWN-8

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
8/25/2009	0	11	Nitrate is ND
9/21/2009	0	12	Nitrate is ND
11/10/2009	0	12	Nitrate is ND
3/16/2010	0	11	Nitrate is ND
5/26/2010	0	11	Nitrate is ND
7/12/2010	0	11	Nitrate is ND
12/6/2010	0	9	Nitrate is ND
1/25/2011	0	13	Nitrate is ND
4/18/2011	0	10	Nitrate is ND
7/26/2011	0	18	Nitrate is ND
10/17/2011	0	10	Nitrate is ND
1/9/2012	0	11	Nitrate is ND

TWN-9

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	9.3	169
9/22/2009	8.9	201
11/10/2009	12	205
3/23/2010	7.6	183
6/1/2010	7.6	175
7/15/2010	10.7	210
12/9/2010	8	172
2/1/2011	9.5	217
4/28/2011	10	192
7/29/2011	11	208
10/20/2011	10.9	134
1/12/2012	12.2	202

TWN-10

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	1.1	19
9/22/2009	1.6	35
11/10/2009	1.4	26
3/23/2010	1.5	54
6/4/2010	1	30
7/14/2010	0.2	21
12/8/2010	1.3	28
1/27/2011	0.3	40
4/21/2011	1.2	28
7/27/2011	0.1	28
10/18/2011	0.2	33
1/10/2012	0.8	44

TWN-11

Date	Nitrate (mg/l)	Chloride (mg/l)
11/3/2009	1.3	74
3/17/2010	1.4	73
6/4/2010	1.3	72
9/27/2010	1.4	76
12/8/2010	1.4	72
1/27/2011	1.4	84
4/26/2011	1.4	76
7/27/2011	0.1	76
10/17/2011	1.6	76
1/10/2012	1.6	69

TWN-12

Date	Nitrate (mg/l)	Chloride (mg/l)
11/3/2009	0.5	109
3/17/2010	0.7	113
5/26/2010	0.8	106
7/12/2010	0.7	112
12/7/2010	0.7	103
1/26/2011	4.2	87
4/26/2011	1	109
7/26/2011	0.6	102
10/17/2011	1.2	87
1/10/2012	0.9	104

TWN-13

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
11/4/2009	0.5	83	
3/17/2010	0	47	Nitrate ND
5/26/2010	0.1	49	
9/27/2010	0.2	53	
12/7/2010	0.4	57	
1/25/2011	1.6	103	
4/26/2011	0	49	Nitrate ND
7/26/2011	0.1	49	
10/17/2011	0	48	Nitrate ND
1/9/2012	0	46	Nitrate ND

TWN-14

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	3.4	32
3/24/2010	2.9	24
6/2/2010	2.9	30
7/15/2010	3.5	26
12/10/2010	4.2	28
1/28/2011	3.7	24
4/27/2011	3.5	30
7/29/2011	3.5	25
10/19/2011	3.9	27
1/11/2012	3.5	26

TWN-15

Date	Nitrate (mg/l)	Chloride (mg/l)
11/10/2009	1.1	78
3/18/2010	0.7	43
5/28/2010	1.0	39
7/13/2010	1.0	36
12/9/2010	1.2	38
1/27/2011	1.4	43
4/27/2011	1.6	49
7/28/2011	1.6	47
10/19/2011	1.3	38
1/11/2012	1.5	38

TWN-16

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	1	39
3/17/2010	1.2	35
5/27/2010	0.2	35
9/27/2010	2.6	35
12/9/2010	2	30
1/27/2011	4.6	34
4/27/2011	1.6	39
7/27/2011	2.4	31
10/18/2011	2.6	34
1/10/2012	2.8	33

TWN-17

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	6.7	152
3/24/2010	10.4	78
6/3/2010	11	87
7/15/2010	8.9	66
12/10/2010	8	65
2/1/2011	8.6	90
4/28/2011	9	81
7/29/2011	8.5	74
10/20/2011	8.1	71
1/12/2012	8.7	79

TWN-18

Date	Nitrate (mg/l)	Chloride (mg/l)
11/2/2009	1.3	57
3/17/2010	1.6	42
6/1/2010	1.8	63
9/27/2010	1.8	64
12/9/2010	1.6	59
1/27/2011	1.4	61
4/26/2011	1.8	67
7/28/2011	1.8	65
10/18/2011	1.9	60
1/10/2012	1.9	64

TWN-19

Date	Nitrate (mg/l)	Chloride (mg/l)
11/2/2009	7.4	125
3/23/2010	7.2	118
6/1/2010	6.2	113
9/29/2010	7.2	113
12/9/2010	7	107
2/1/2011	7	114
4/28/2011	6.9	120
7/28/2011	7.1	113
10/18/2011	6.5	108
1/10/2012	7	114

Piezometer 1

Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2009	6.8	NA
7/14/2009	6.8	60
9/22/2009	7.3	78
10/27/2009	7.4	61
6/2/2010	7.2	52
7/19/2010	6.8	52
12/10/2010	6.5	60
1/31/2011	7	60
4/25/2011	6.8	58
7/25/2011	7	53
10/19/2011	6.6	55
1/11/2012	7.1	78

Piezometer 2

Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2009	0.5	NA
7/14/2009	0.5	7
9/22/2009	0.5	17
10/27/2009	0.6	7
6/2/2010	0.6	8
7/19/2010	0.6	8
12/10/2010	0.2	6
1/31/2011	0.3	9
4/25/2011	0.3	8
7/25/2011	0.1	9
10/19/2011	0.1	8
1/11/2012	0.1	9

Piezometer 3

Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2009	0.7	NA
7/14/2009	0.8	12
9/22/2009	0.8	24
10/27/2009	1.2	19
3/24/2010	1.7	116
6/2/2010	1.6	36
7/19/2010	1.6	35
12/10/2010	1.8	25
1/31/2011	1.8	40
4/25/2011	1.7	35
7/25/2011	1.8	61
10/19/2011	1.7	12
1/11/2012	1.8	20

Piezometer 4

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	1.8	46

Piezometer 5

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	0.7	18

MW-18

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	ND	51

MW-19

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	2.2	24

Upper Wildlife Pond

Date	Nitrate (mg/l)	Chloride (mg/l)	Note
9/22/2009	0	5	Nitrate ND
10/27/2009	0	3	Nitrate ND
6/2/2010	0	0	Nitrate and Chloride ND
7/19/2010	0	0	Nitrate and Chloride ND
12/10/2010	0	1	Nitrate ND
1/31/2011	0.1	1	
4/25/2011	0	0	Nitrate and Chloride ND
7/25/2011	0	0	Nitrate and Chloride ND
10/19/2011	0	0	Nitrate and Chloride ND
1/11/2012	0	2	Nitrate ND

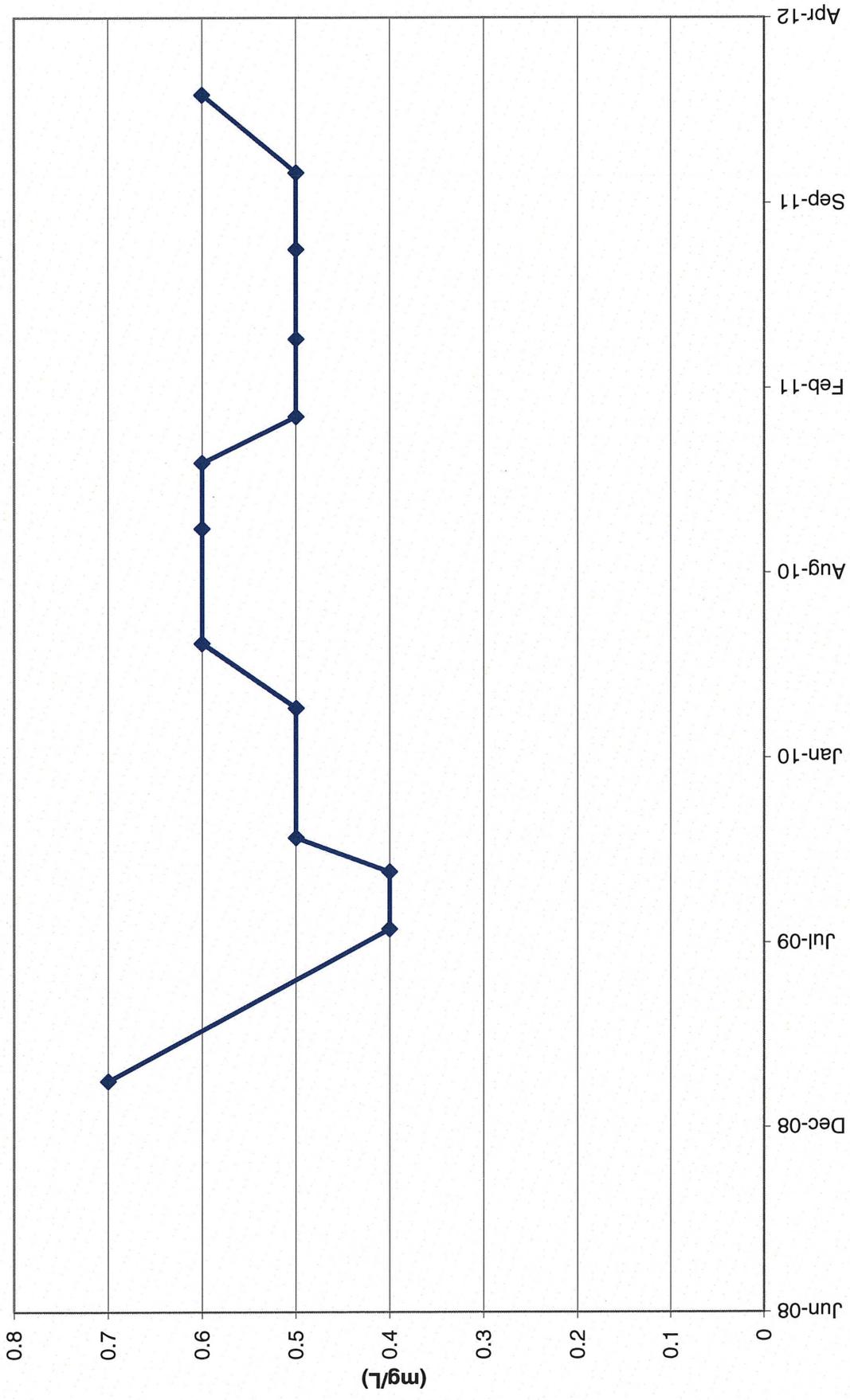
Frog Pond

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
10/14/09	0	0	Nitrate ND

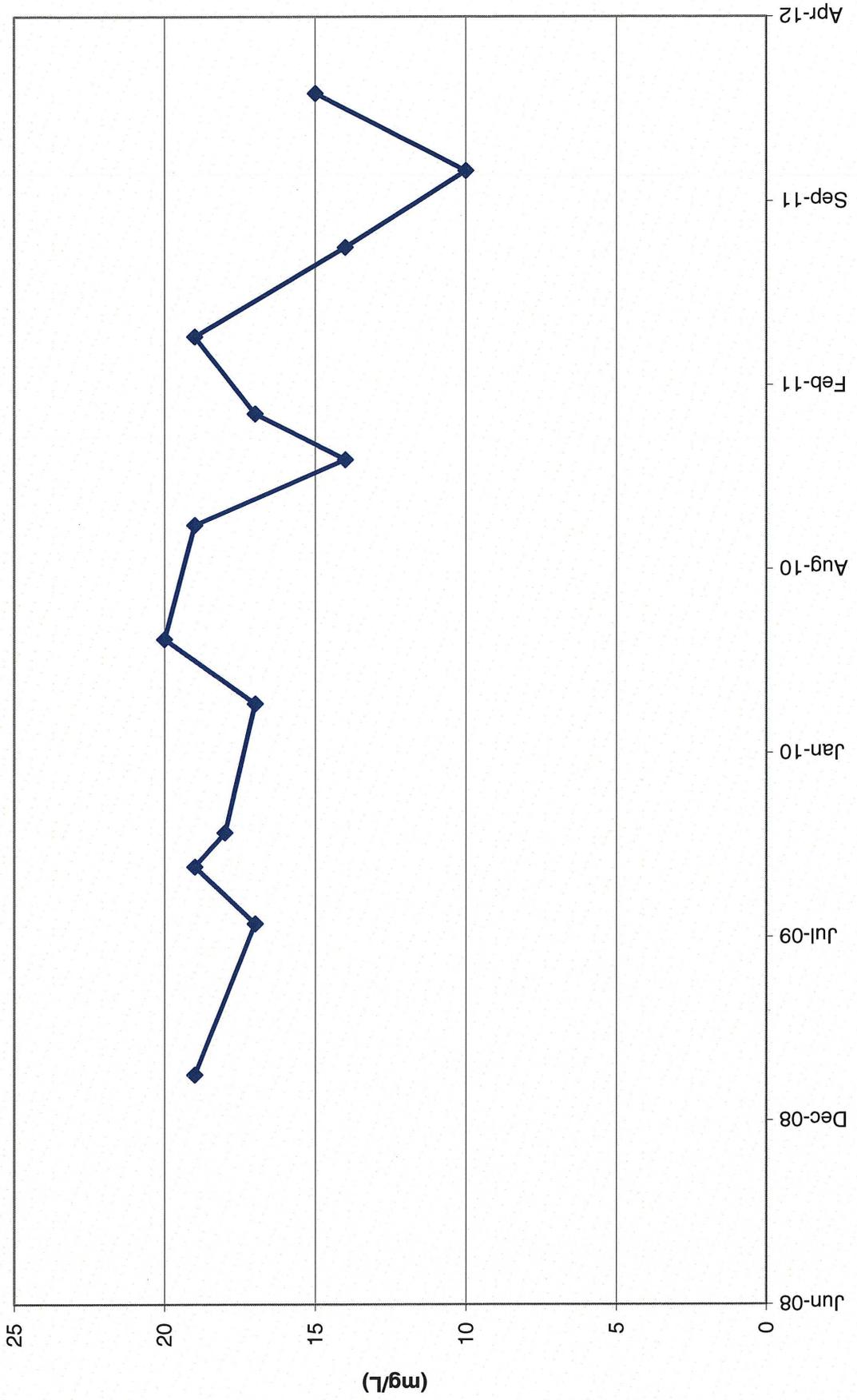
Tab K

Concentration Trend Graphs

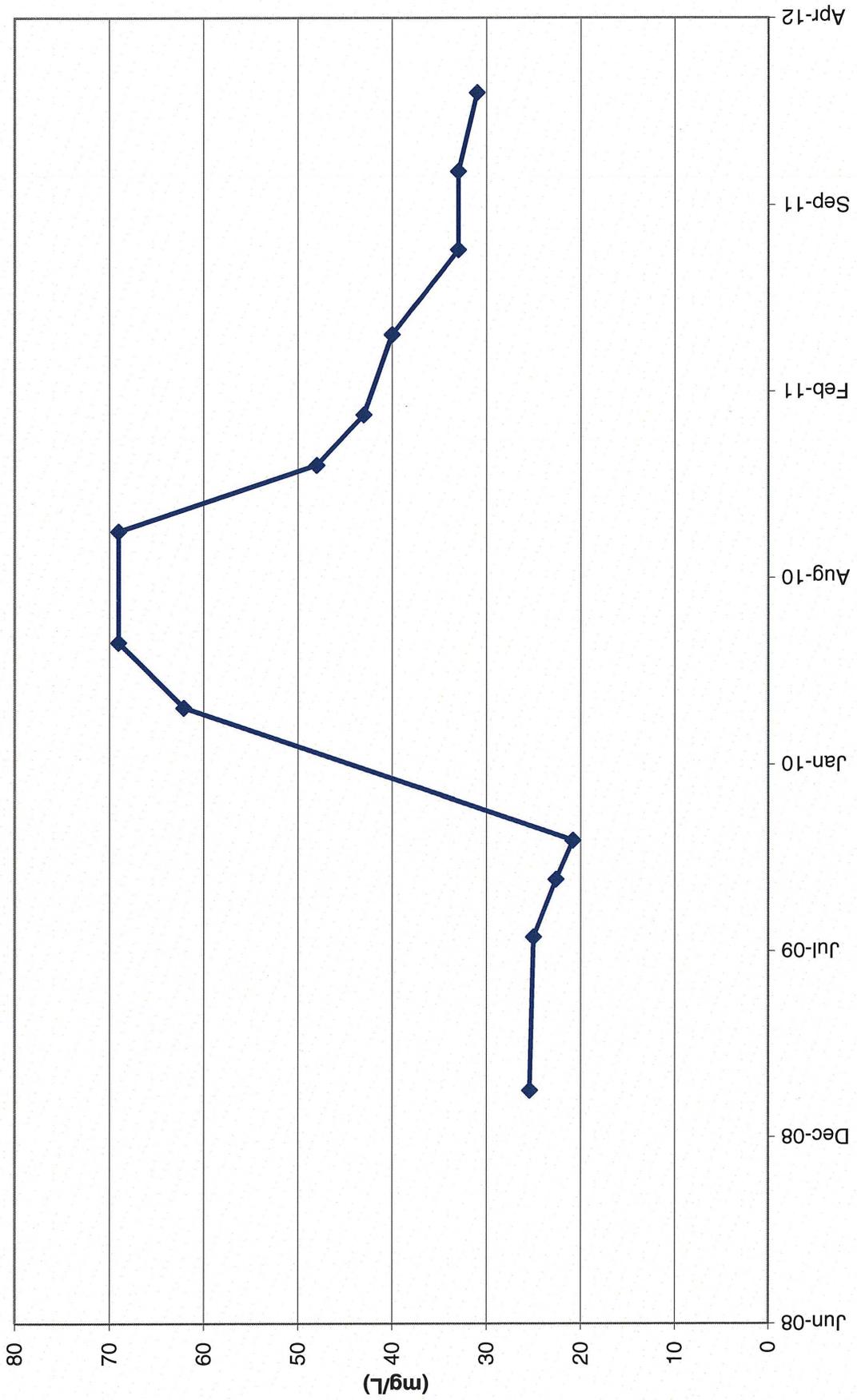
TWN-1 Nitrate Concentrations



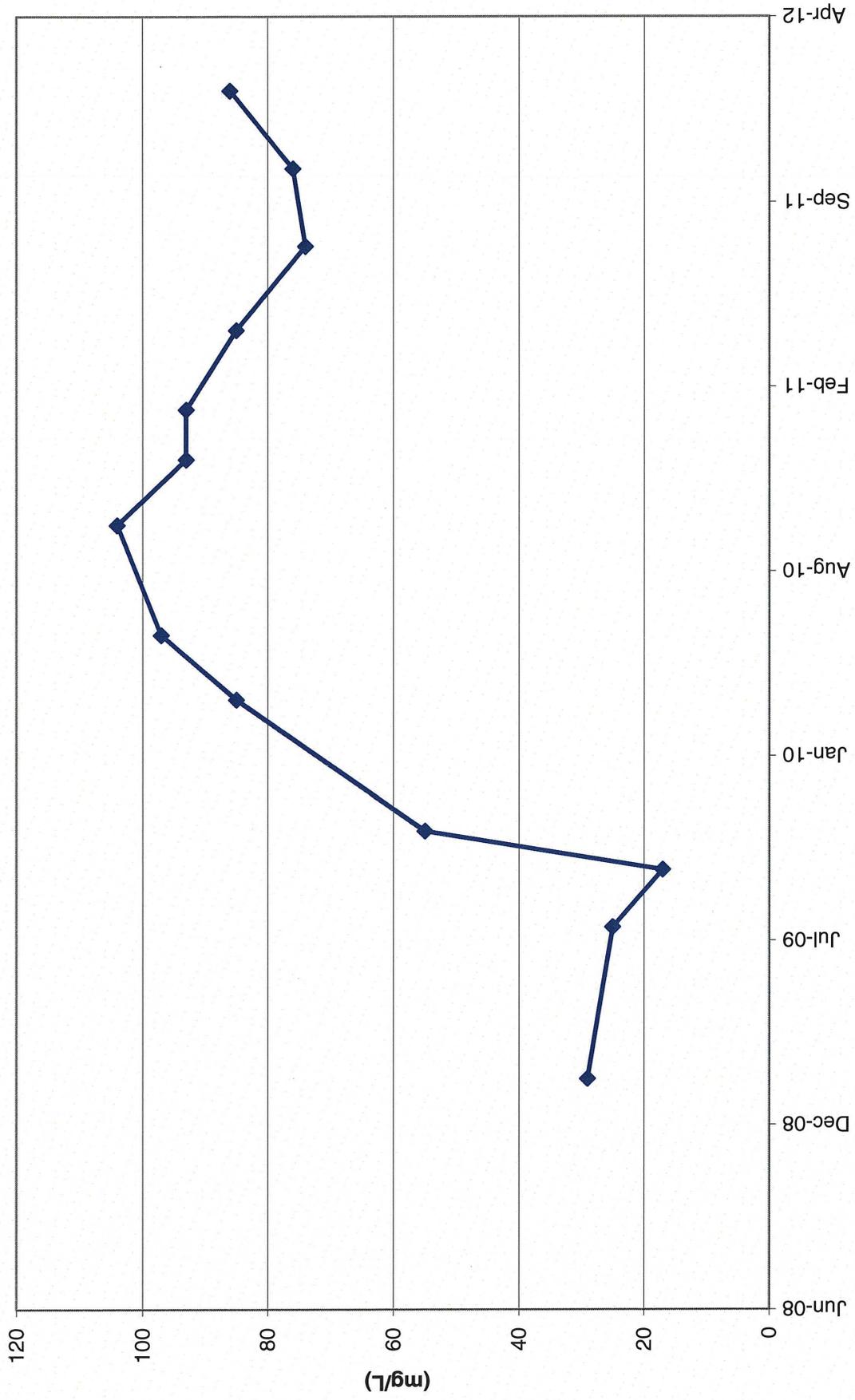
TWN-1 Chloride Concentrations



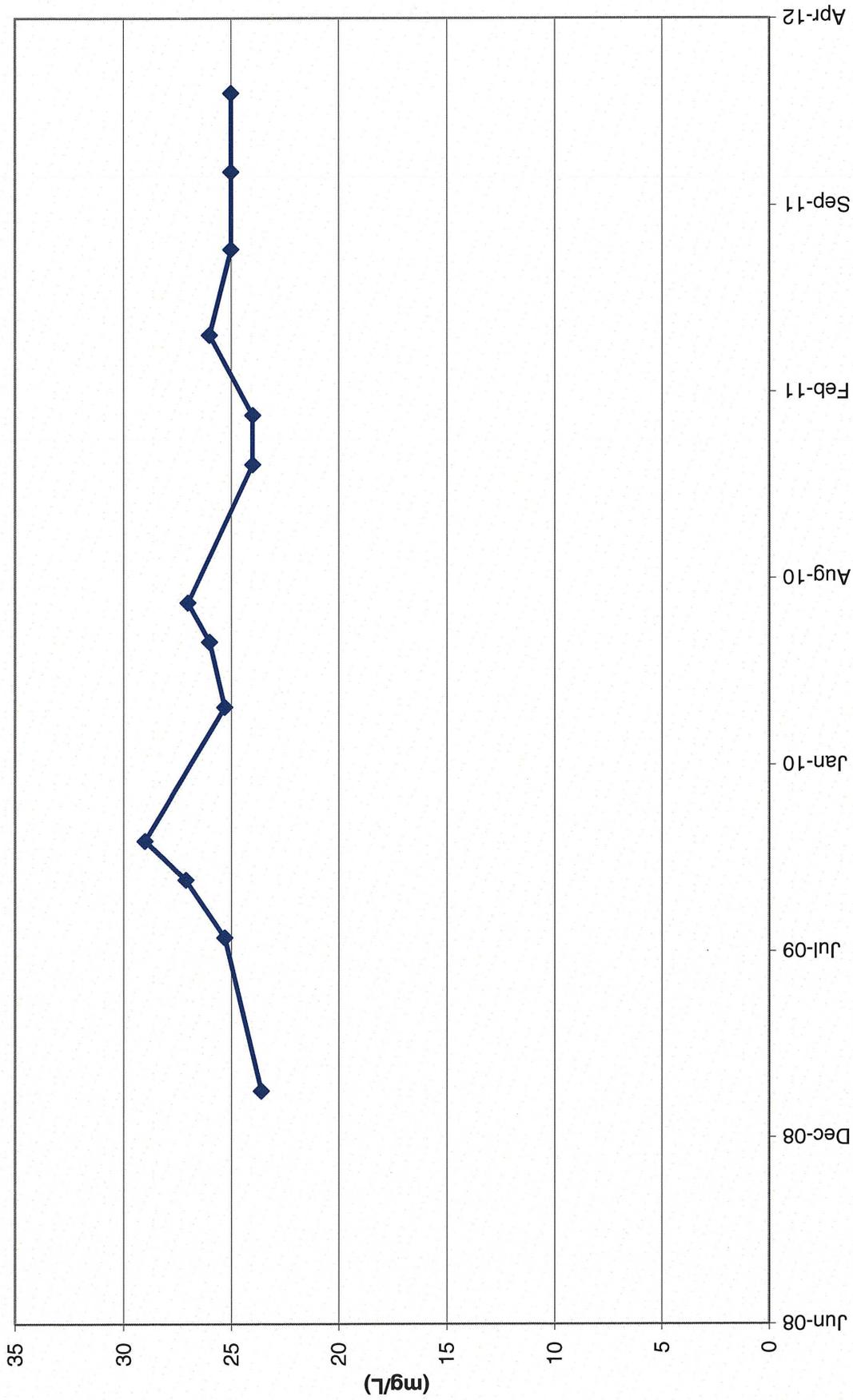
TWN-2 Nitrate Concentrations



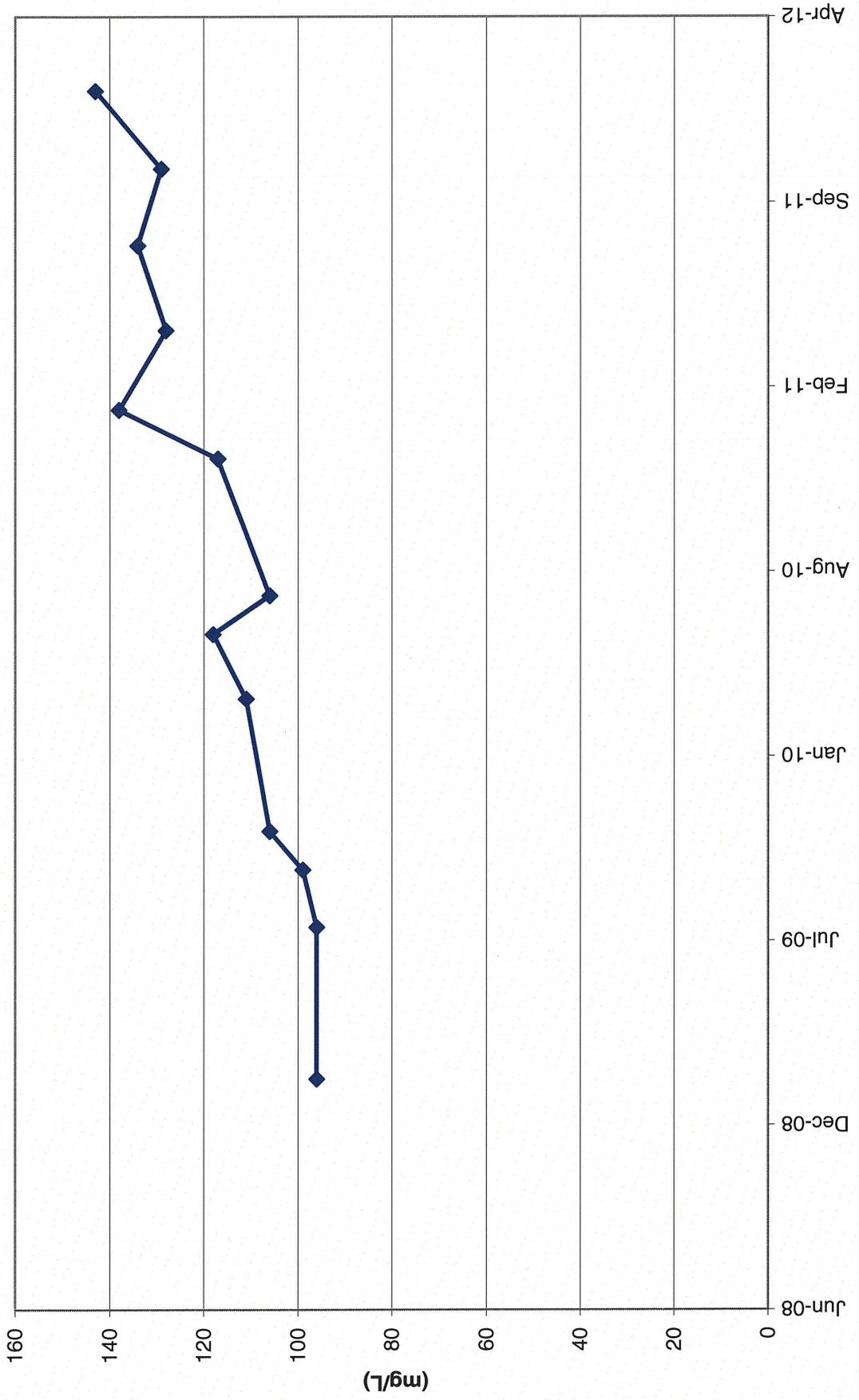
TWN-2 Chloride Concentrations



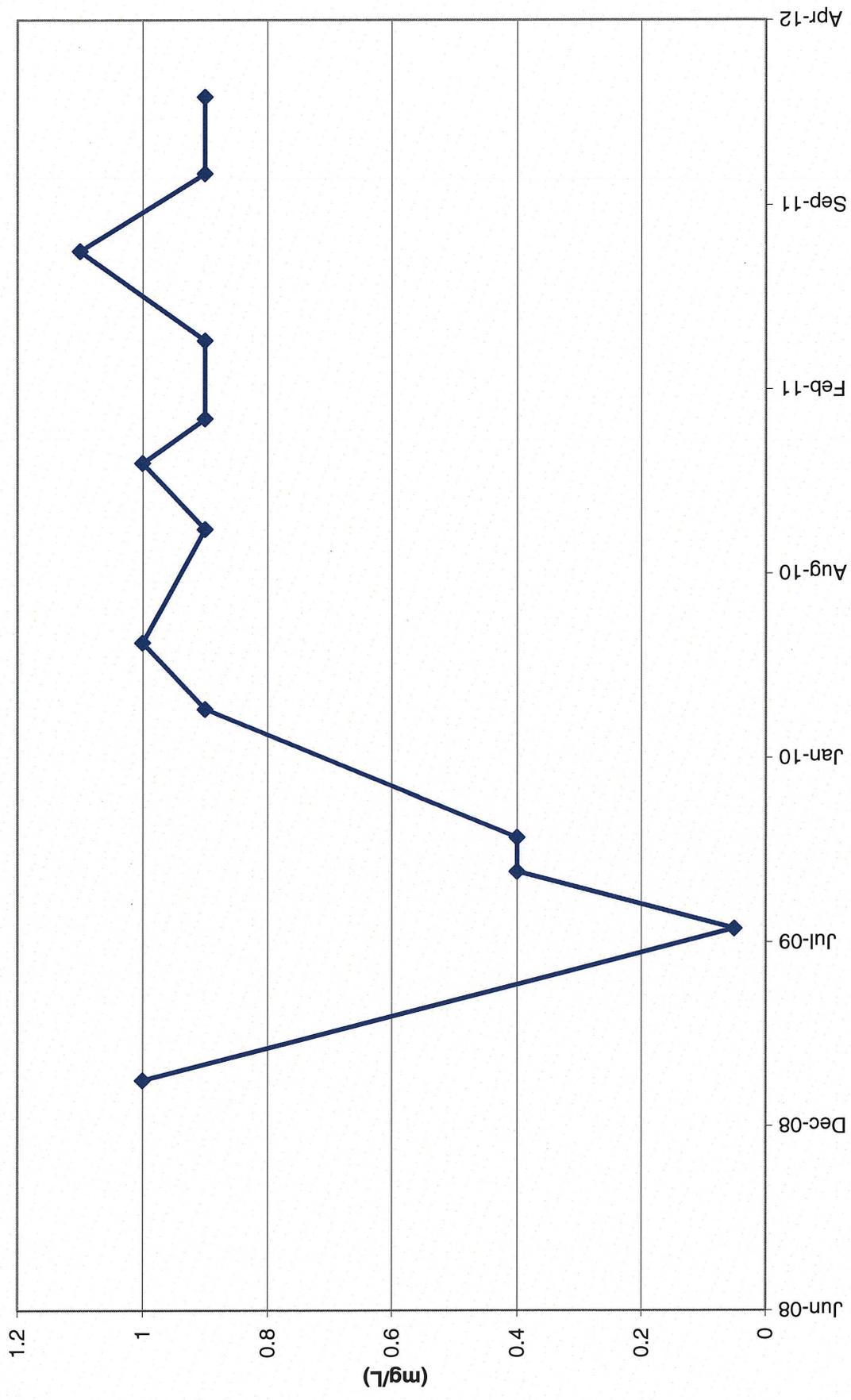
TWN-3 Nitrate Concentrations



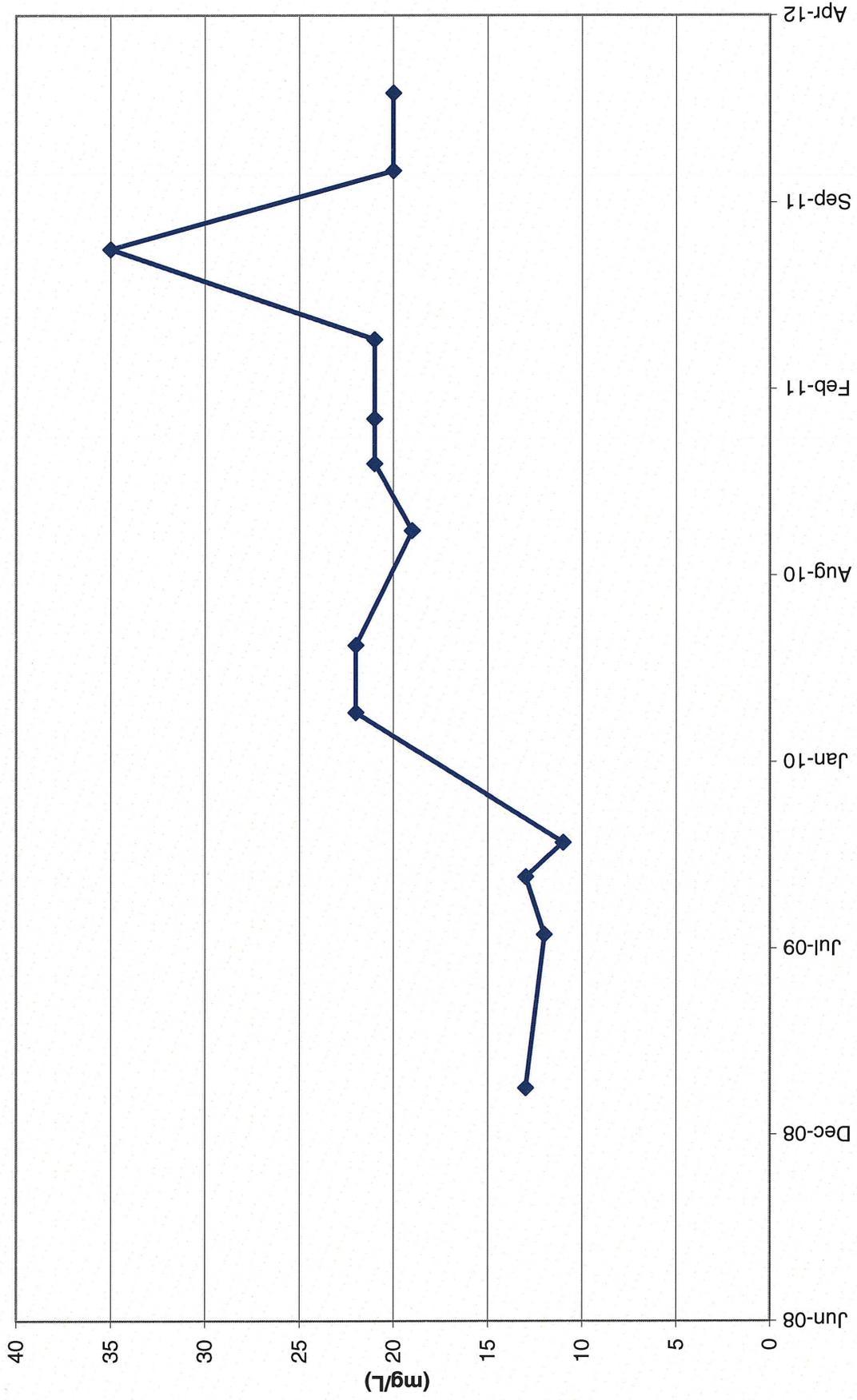
TWN-3 Chloride Concentrations



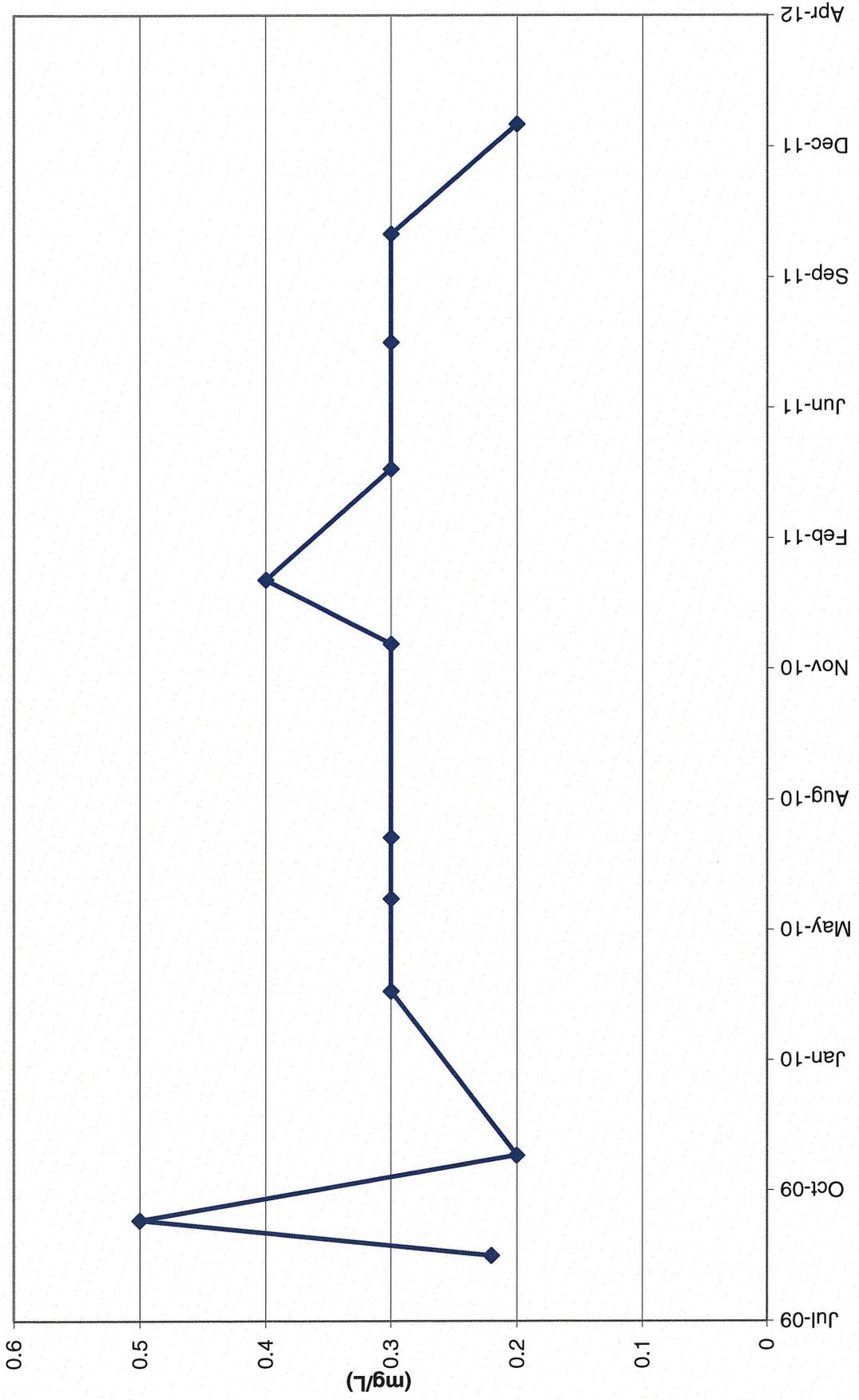
TWN-4 Nitrate Concentrations



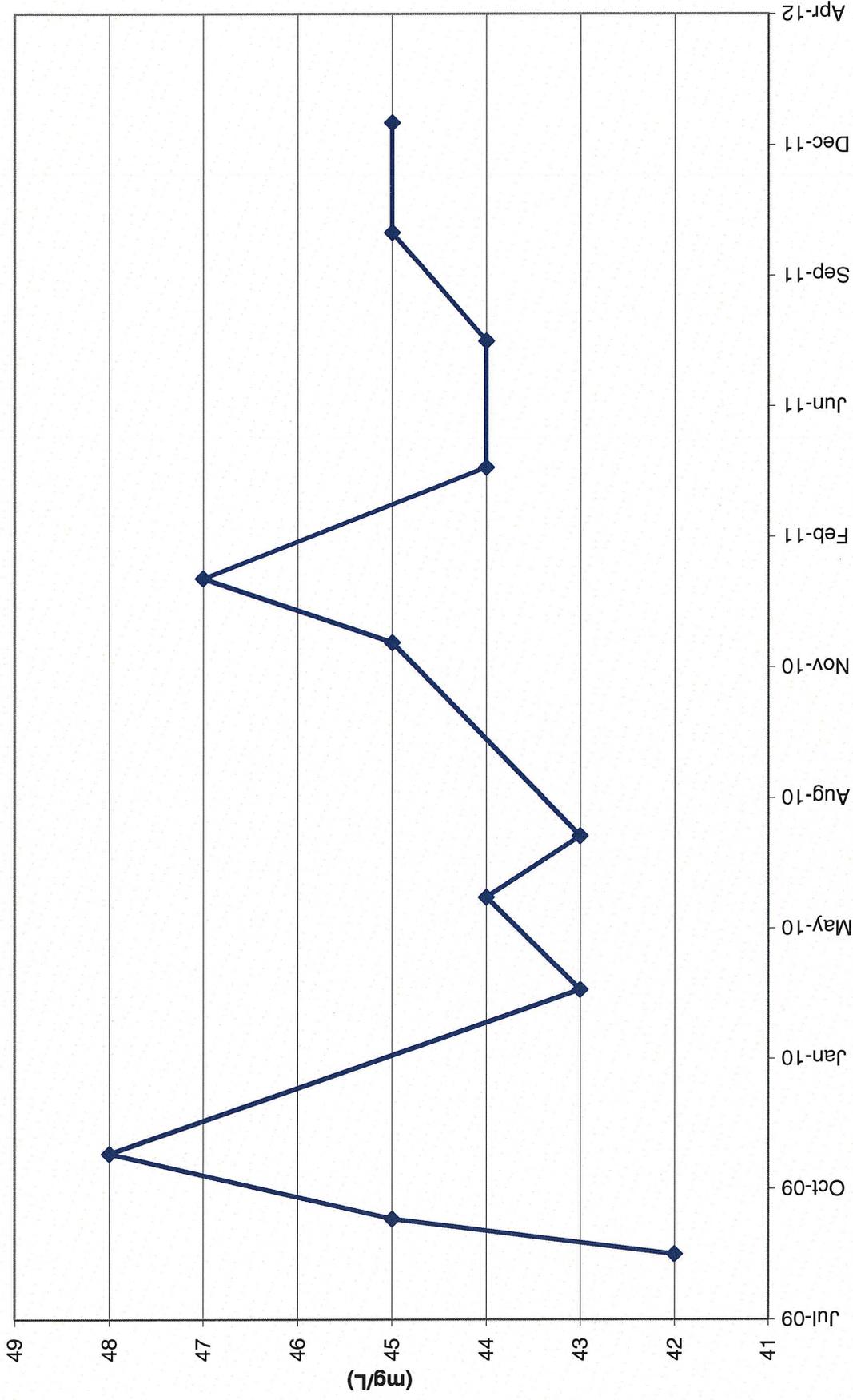
TWN-4 Chloride Concentrations



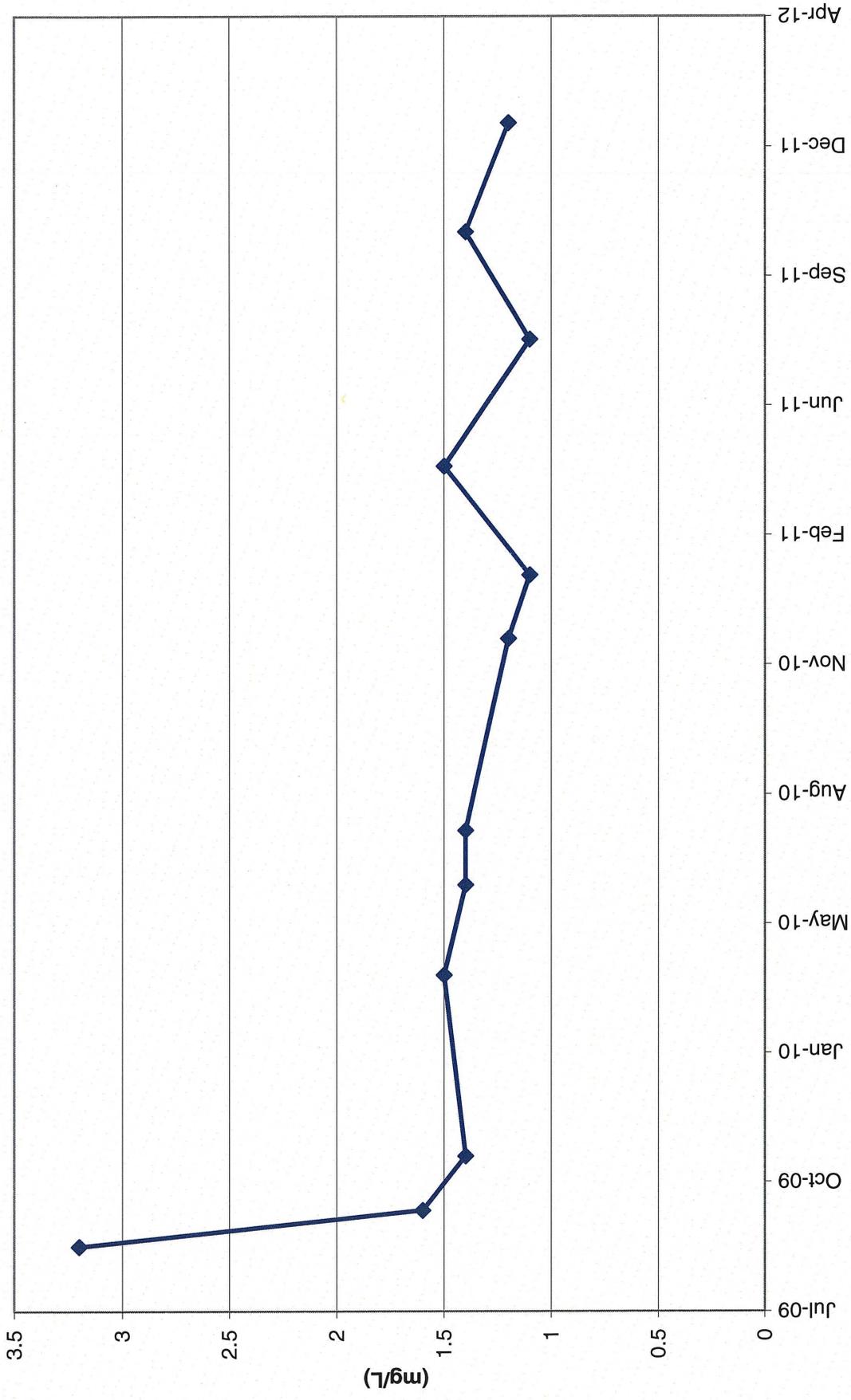
TWN-5 Nitrate Concentrations



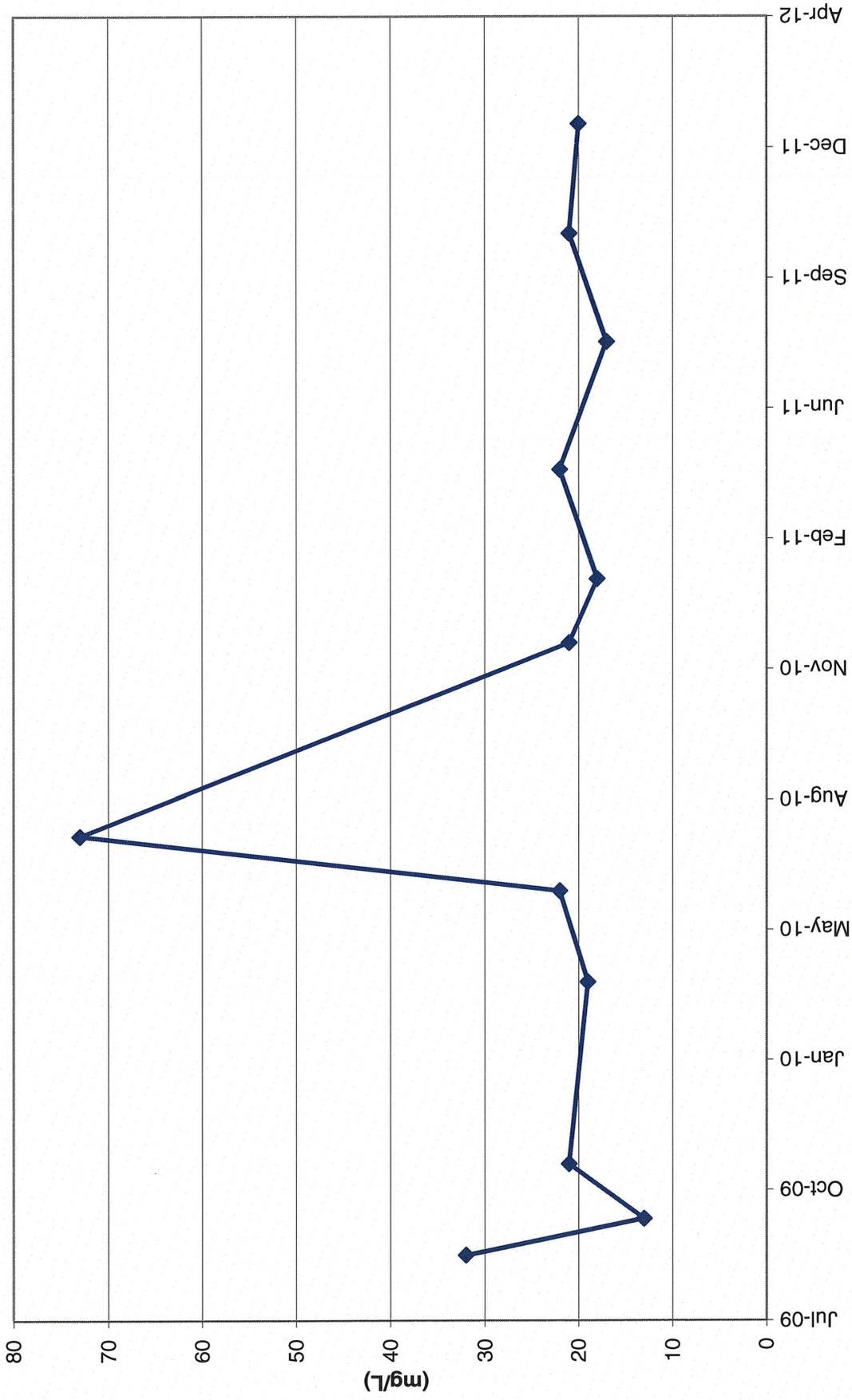
TWN-5 Chloride Concentrations



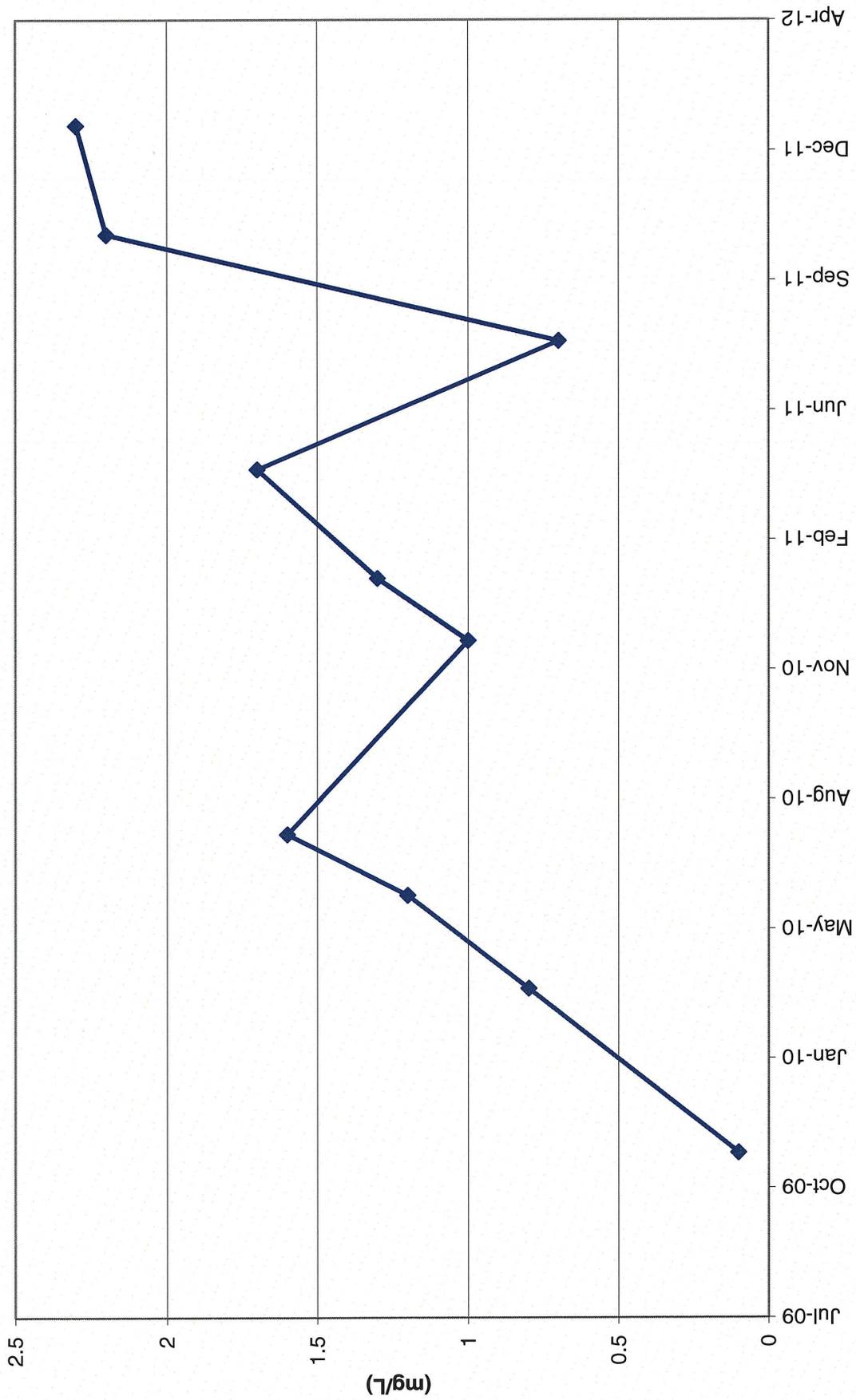
TWN-6 Nitrate Concentrations



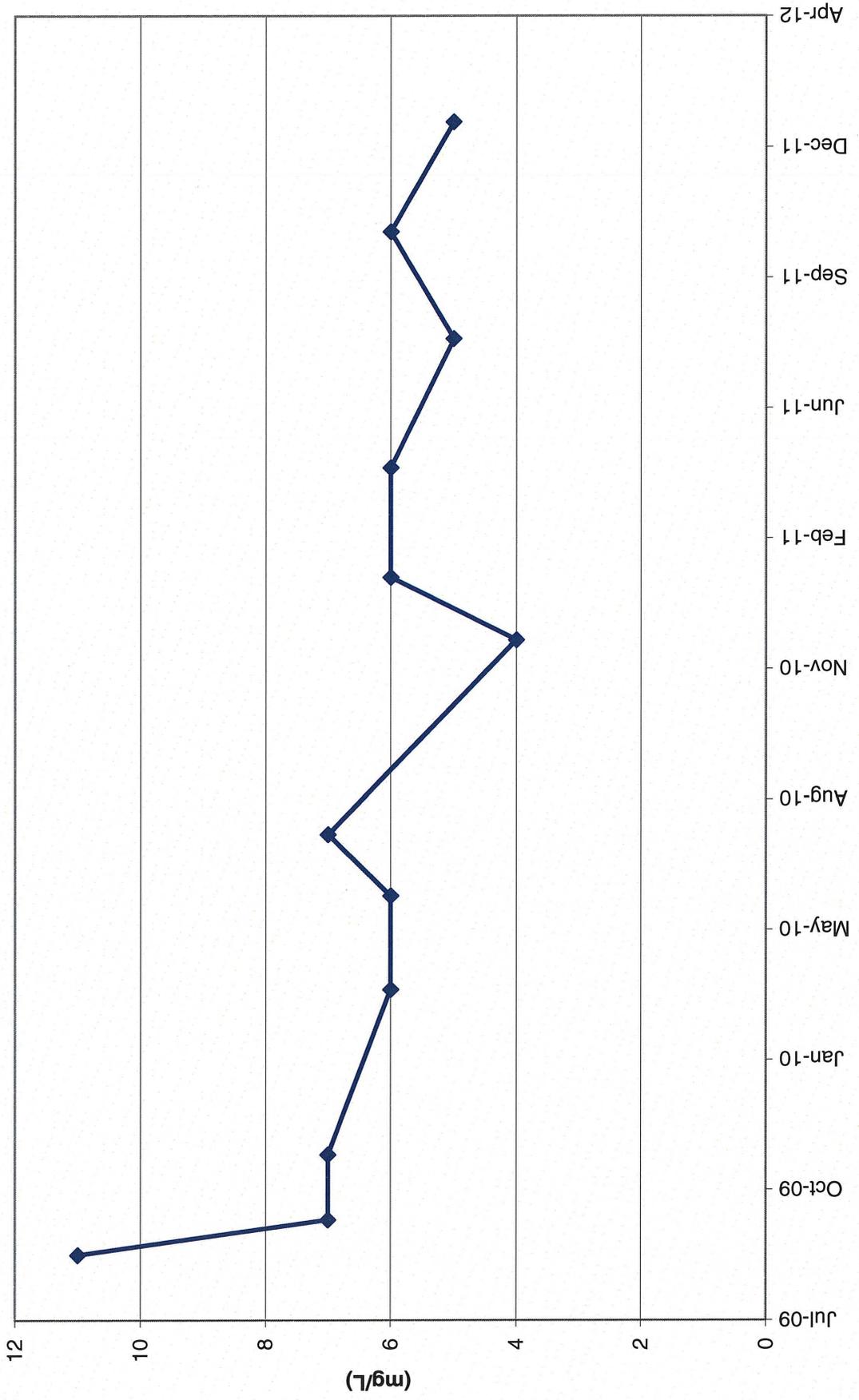
TWN-6 Chloride Concentrations



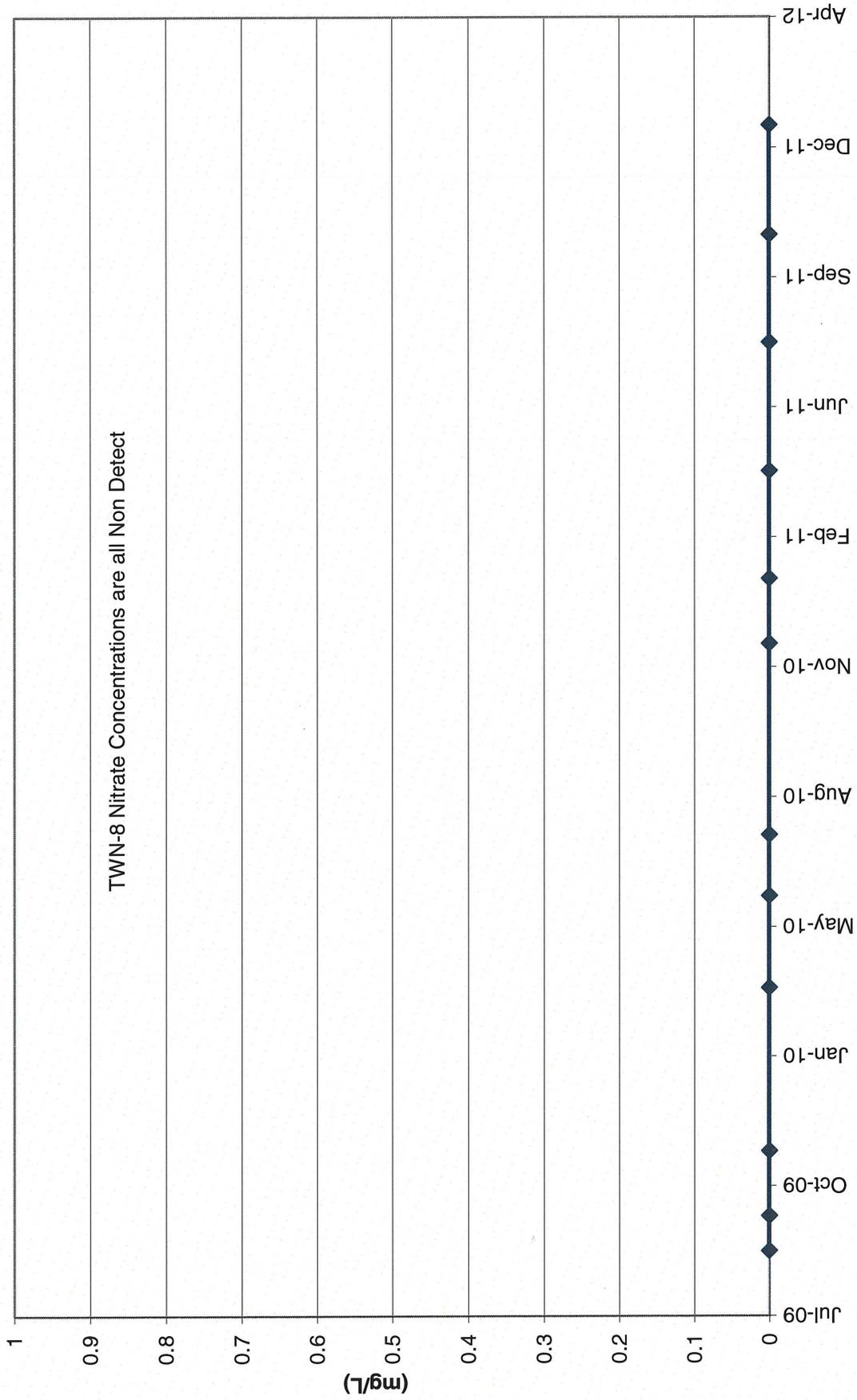
TWN-7 Nitrate Concentrations



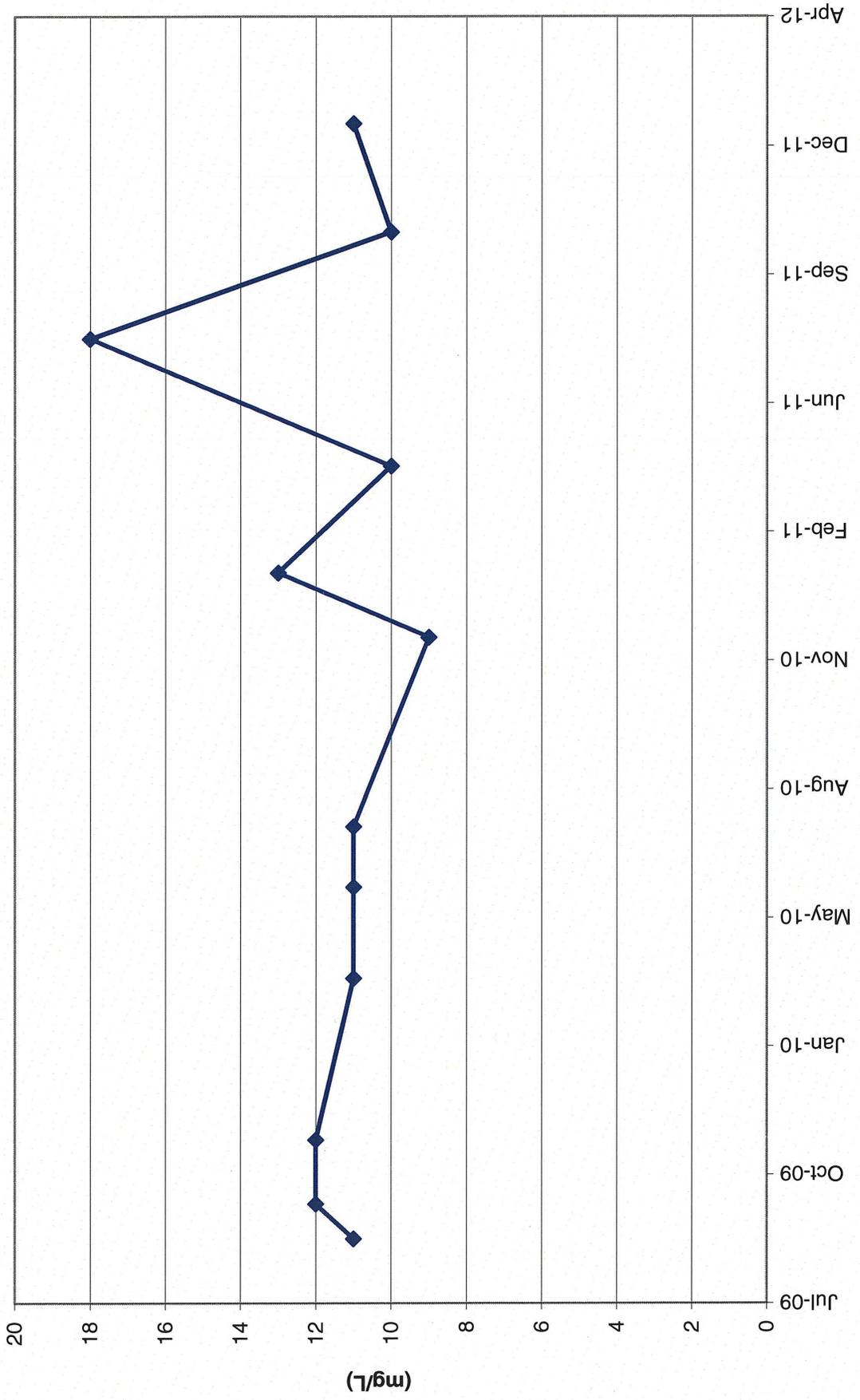
TWN-7 Chloride Concentrations



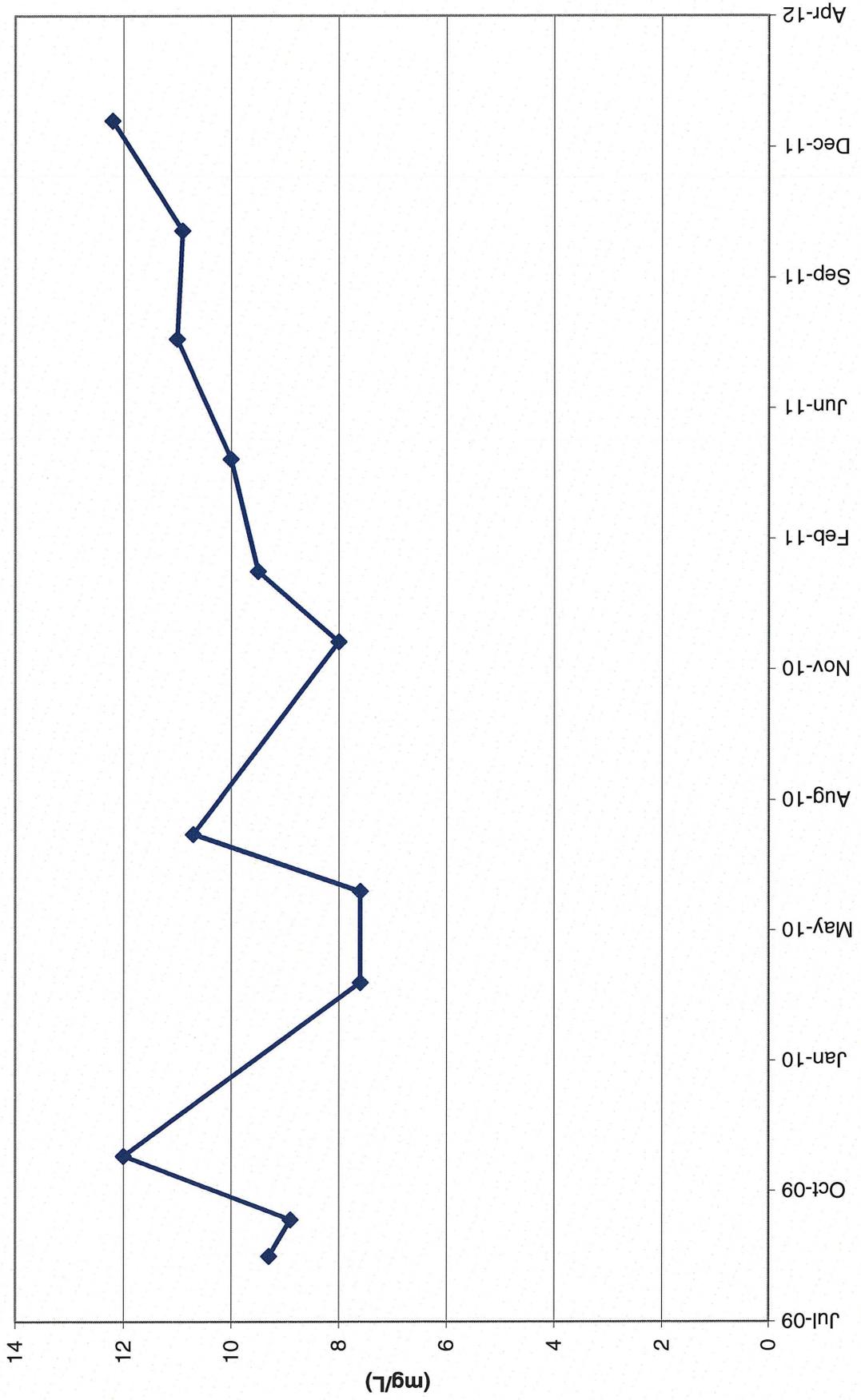
TWN-8 Nitrate Concentrations



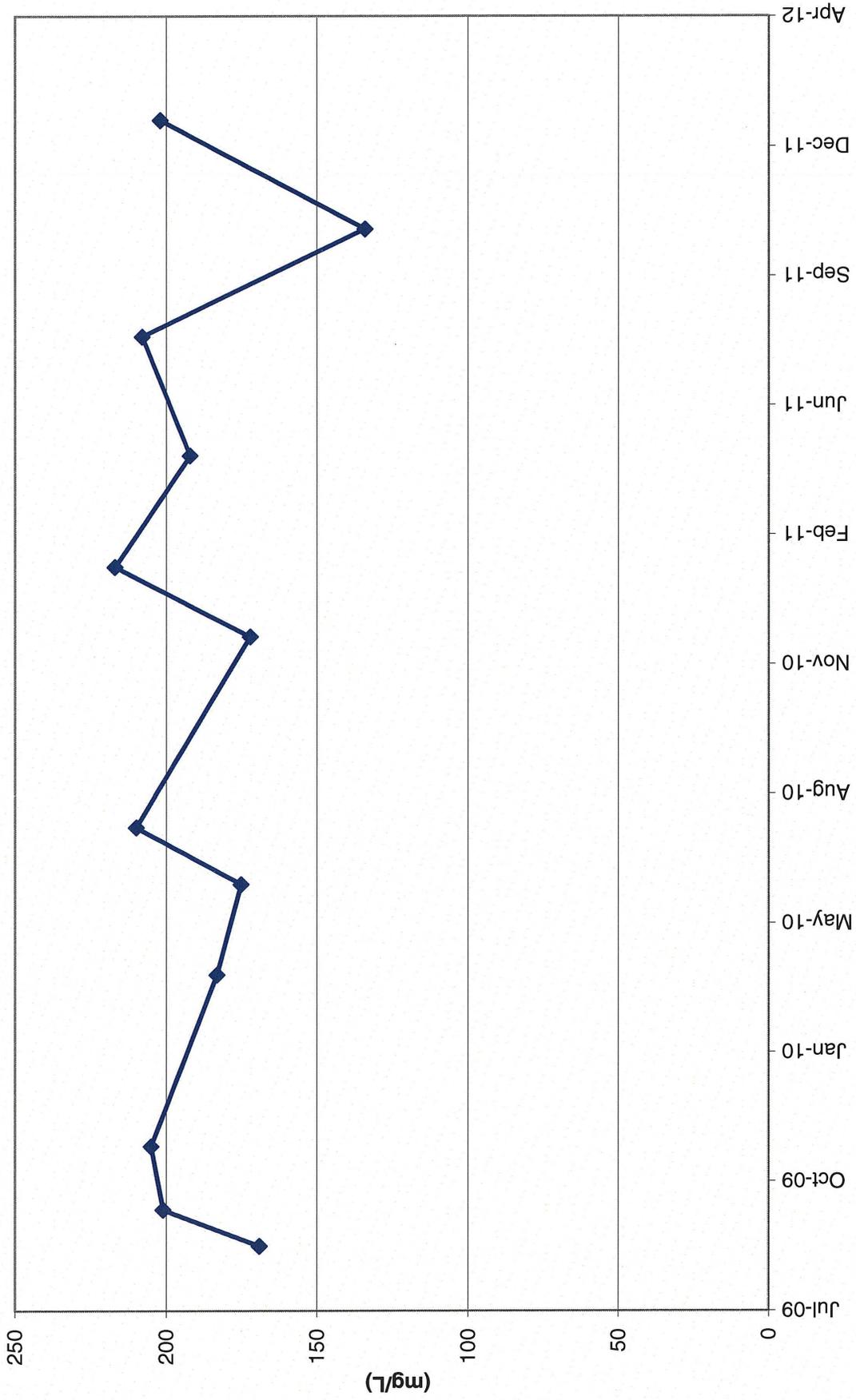
TWN-8 Chloride Concentrations



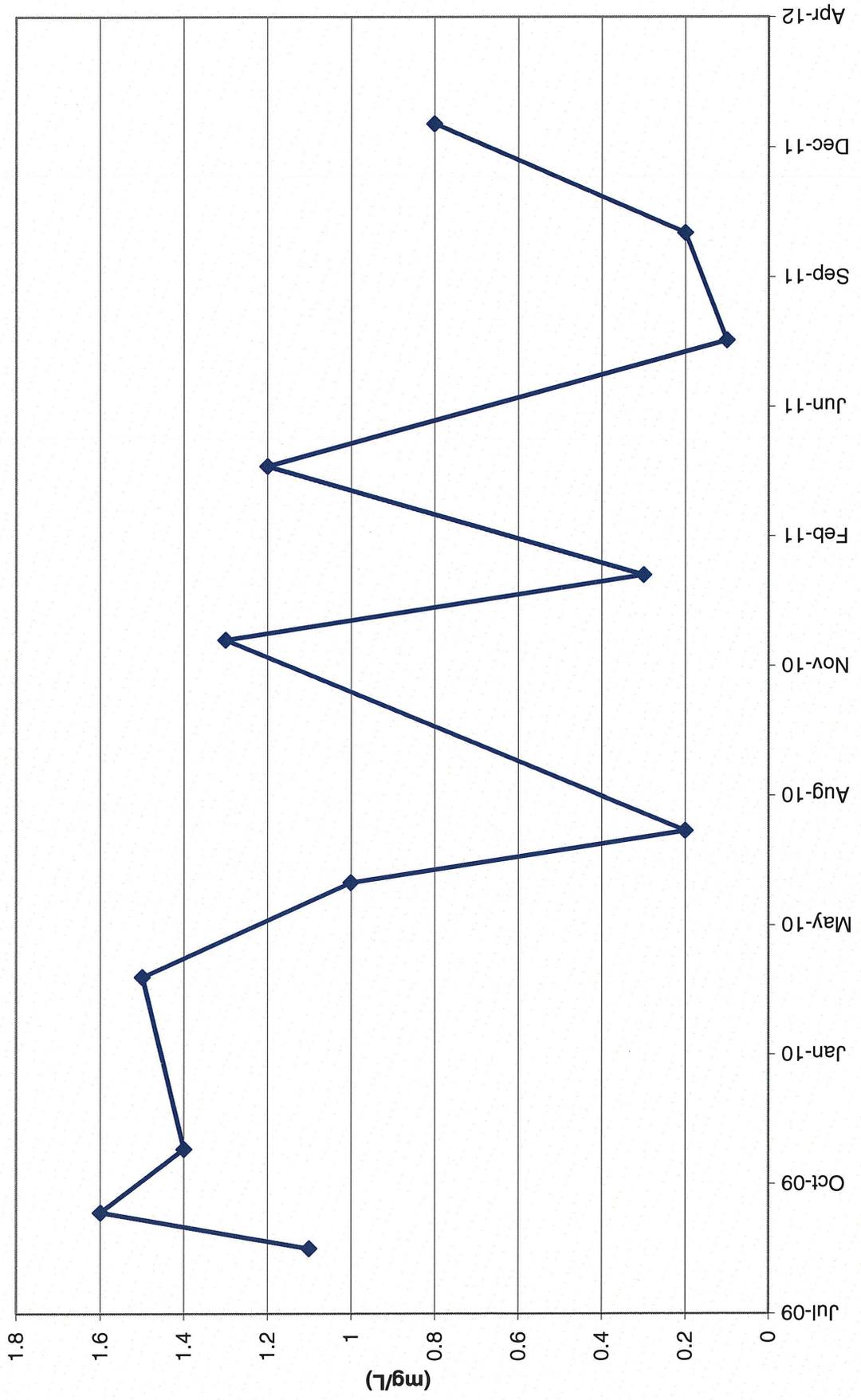
TWN-9 Nitrate Concentrations



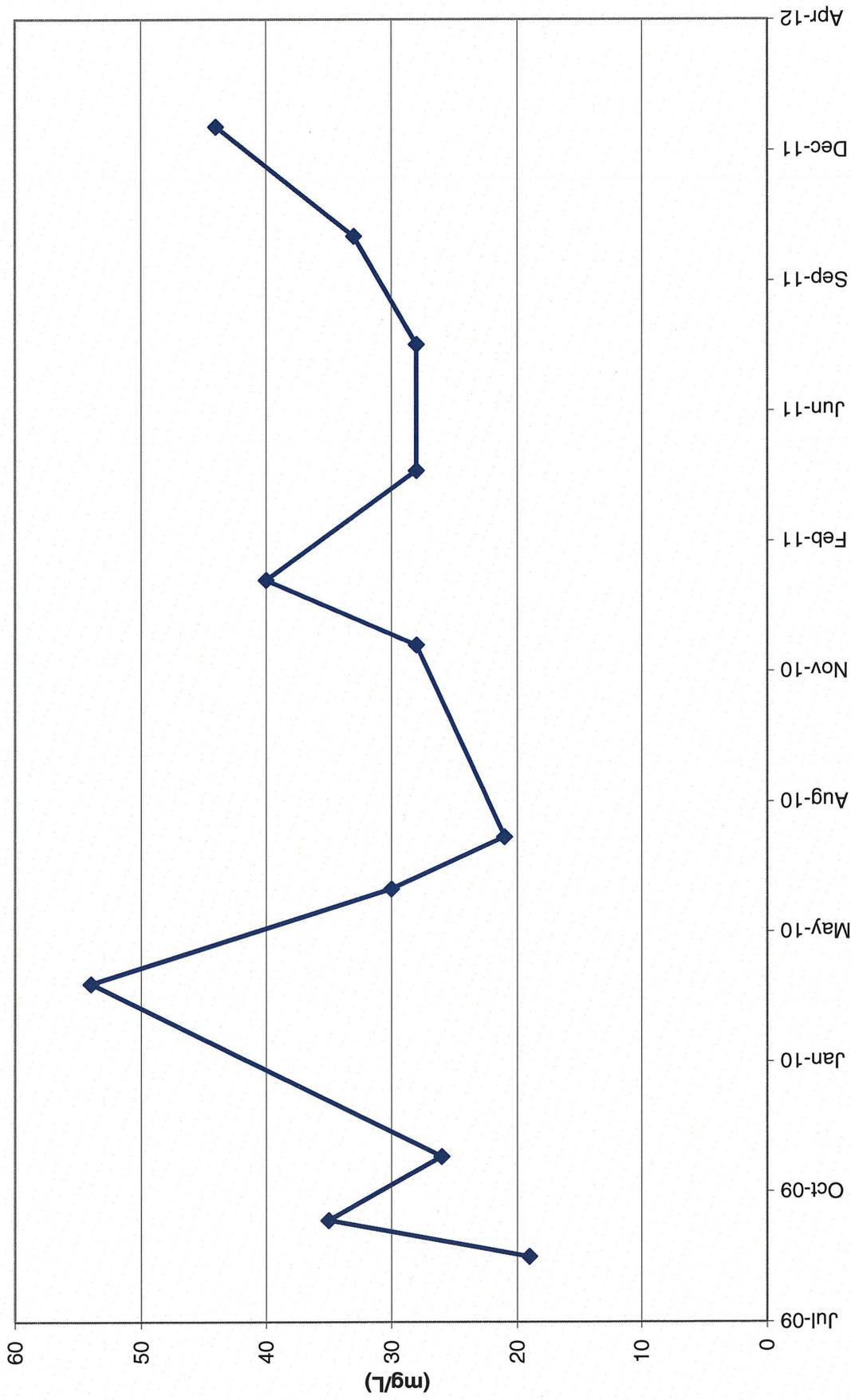
TWN-9 Chloride Concentrations



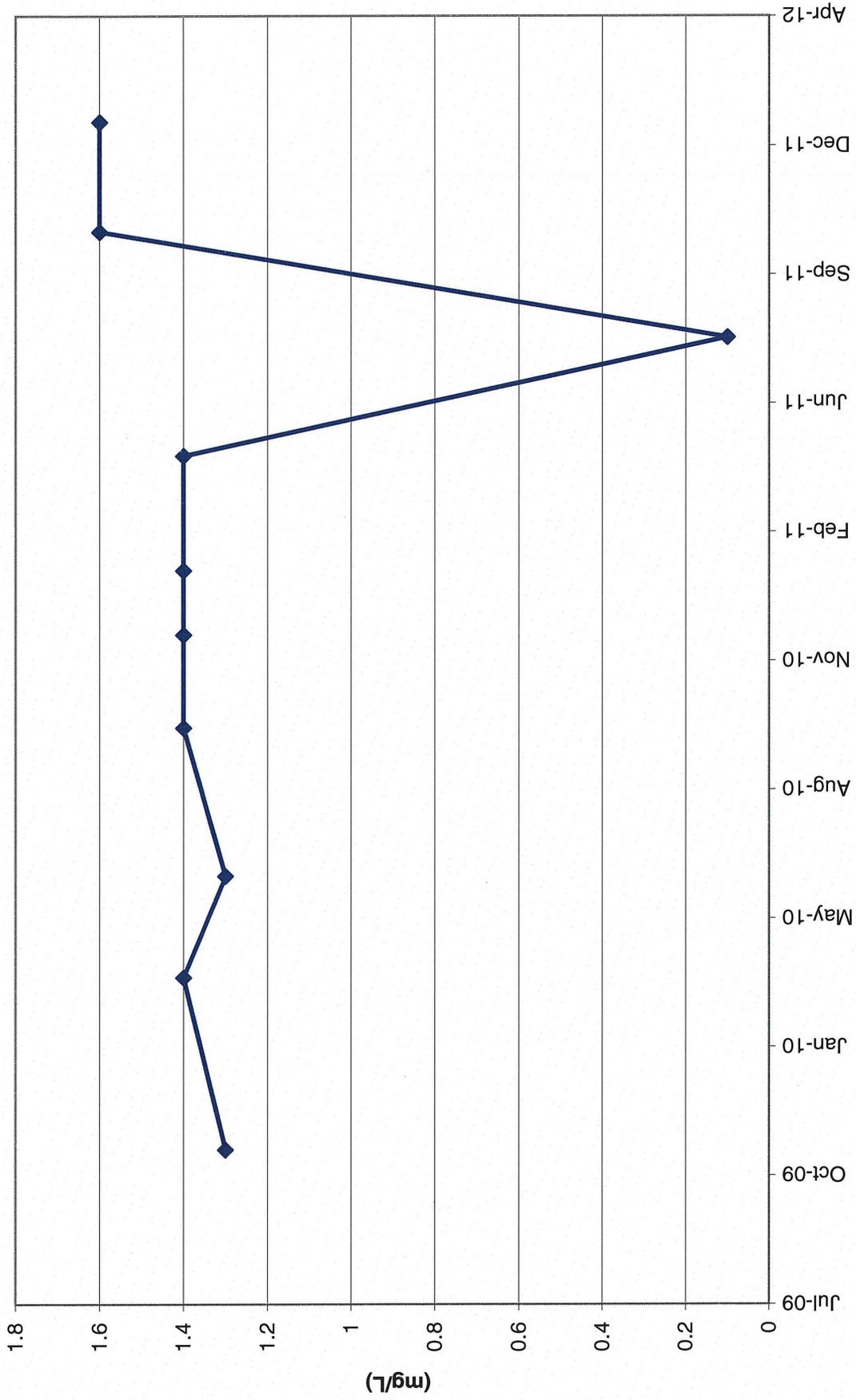
TWN-10 Nitrate Concentrations



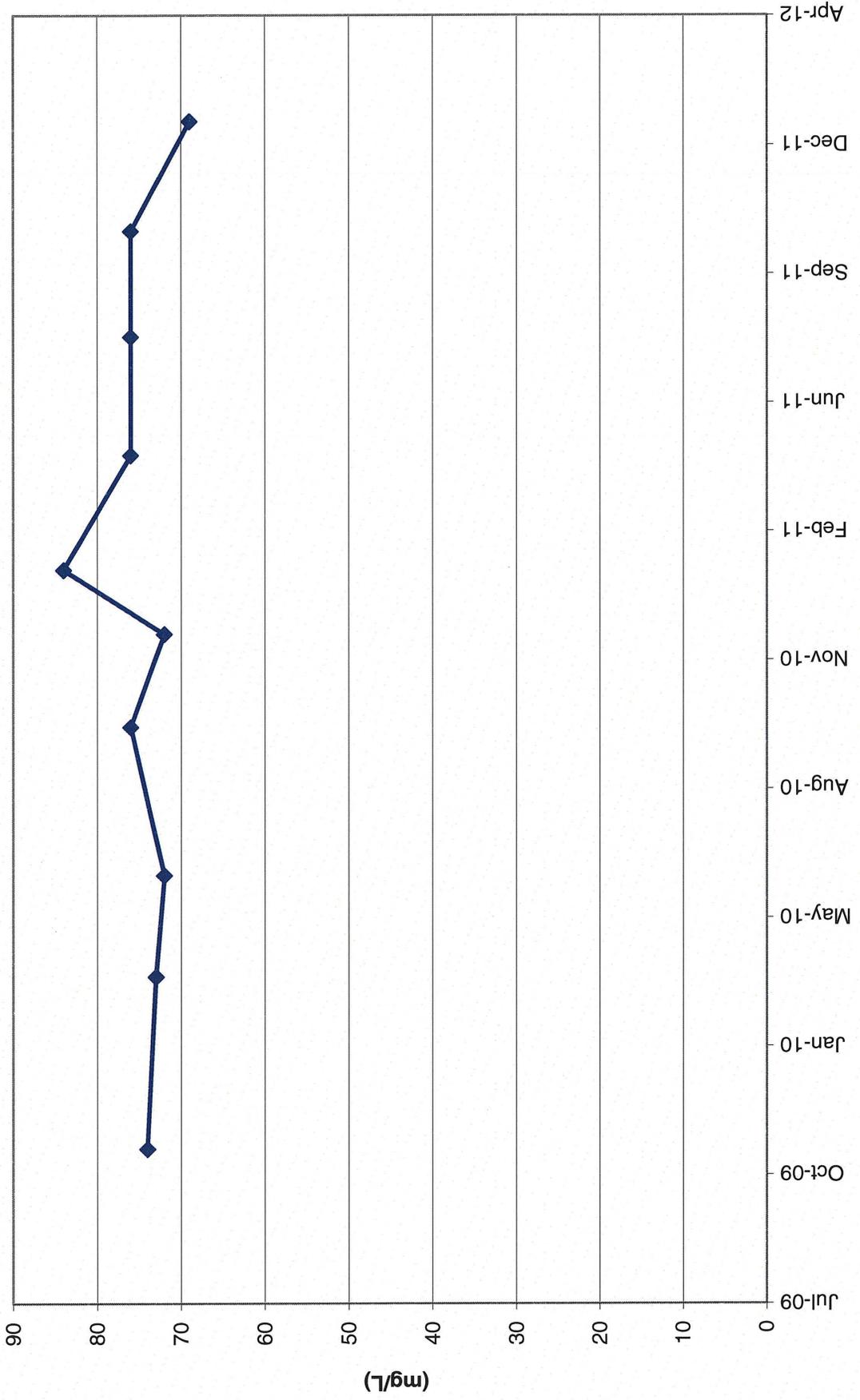
TWN-10 Chloride Concentrations



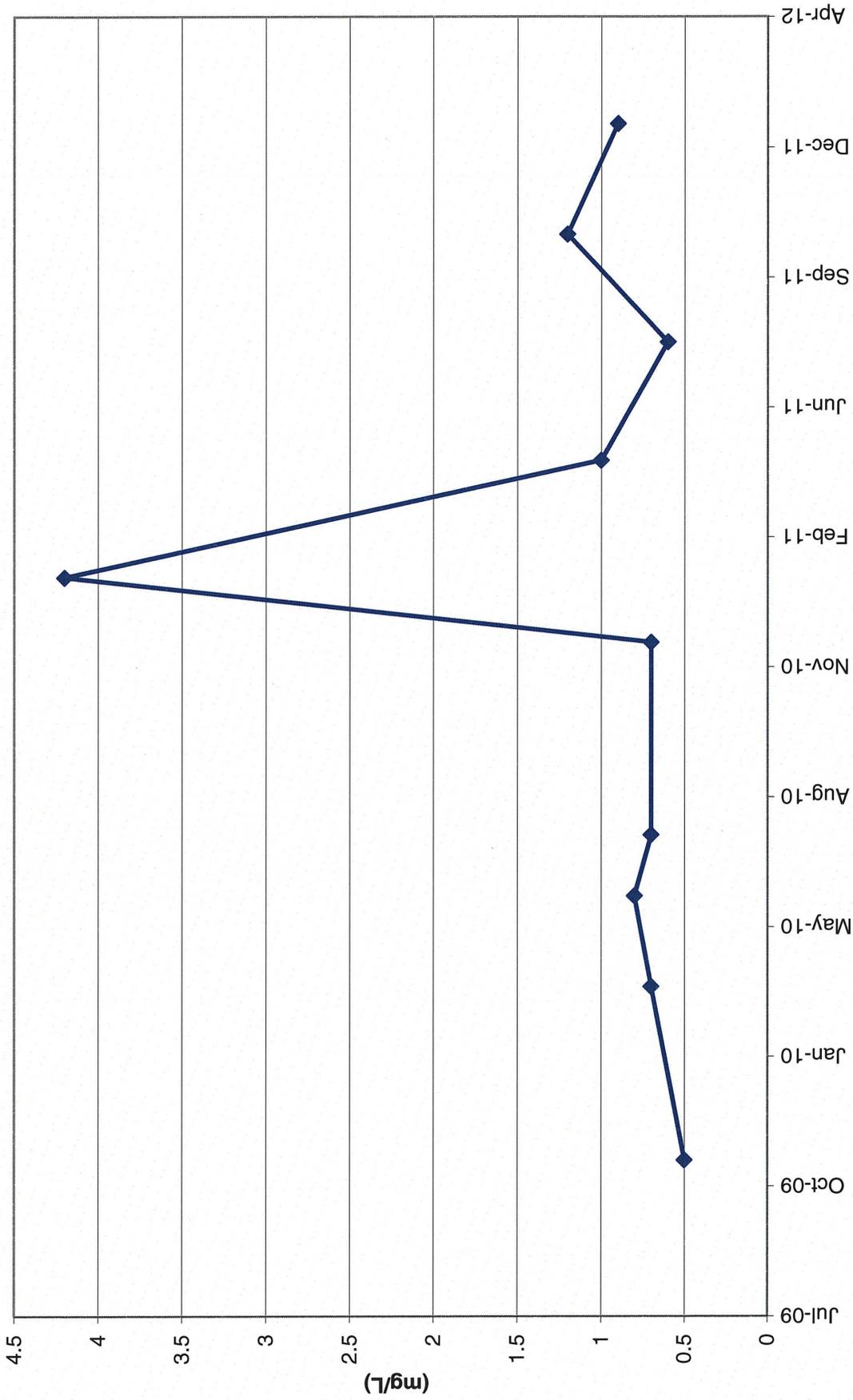
TWN-11 Nitrate Concentrations



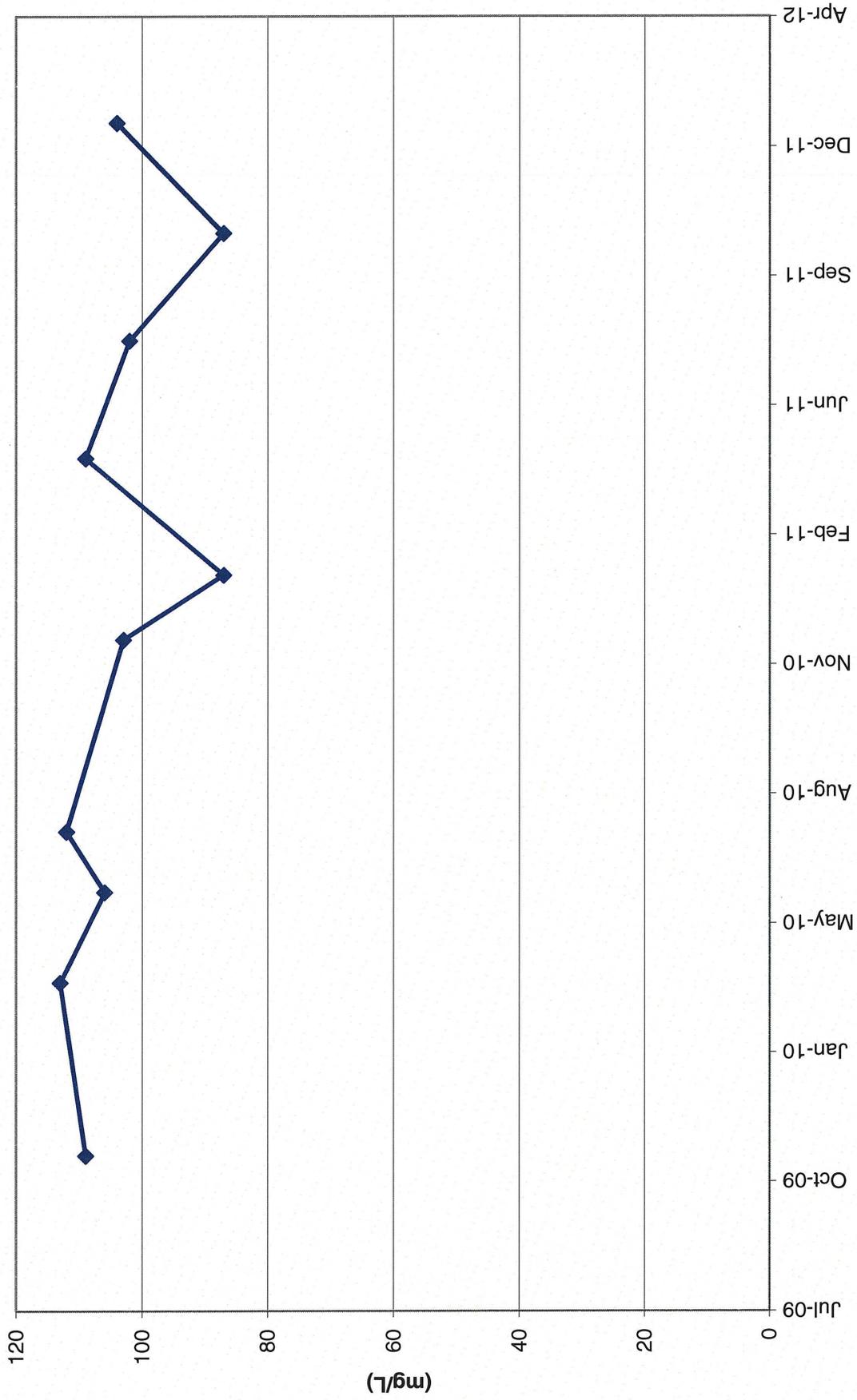
TWN-11 Chloride Concentrations



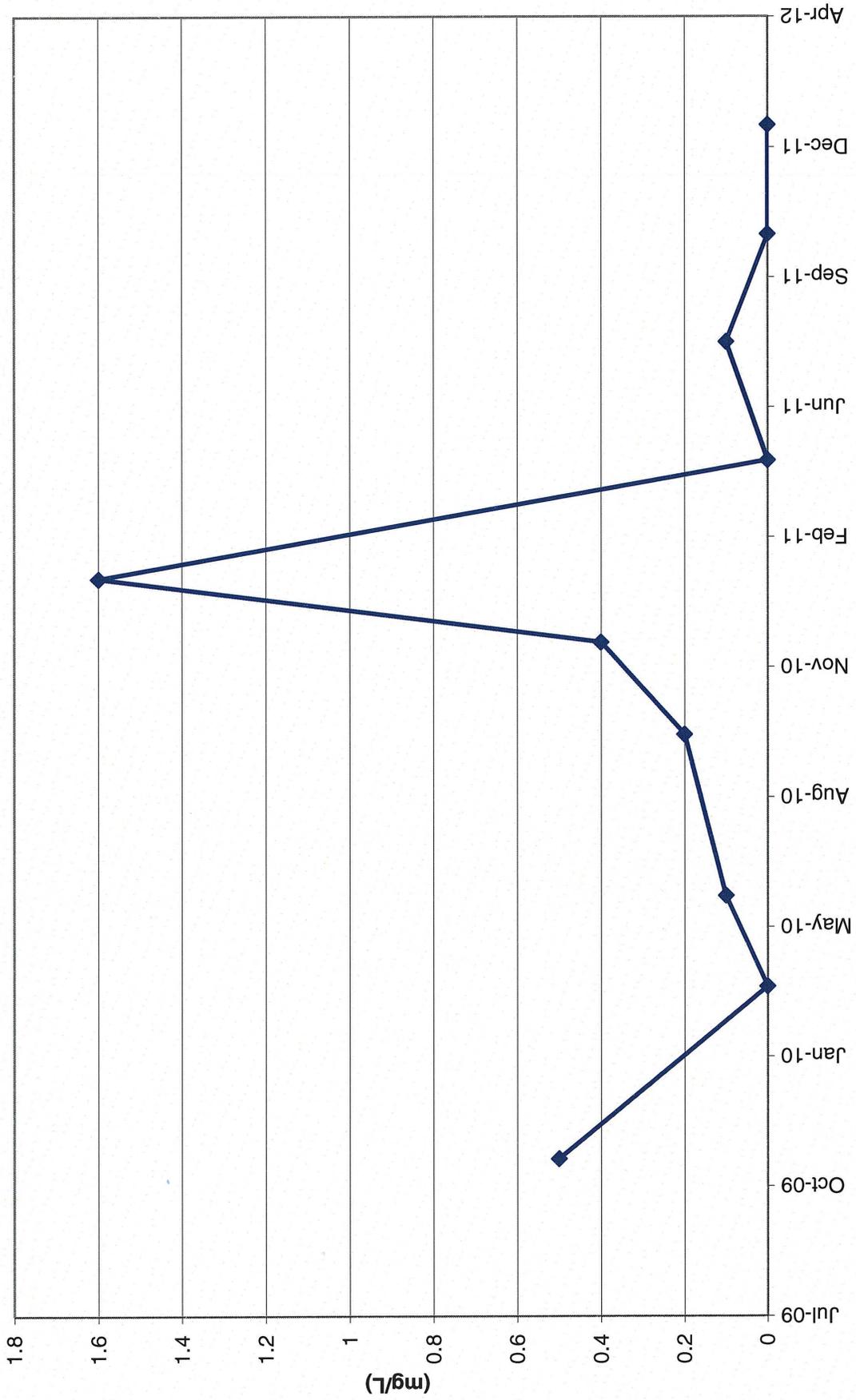
TWN-12 Nitrate Concentrations



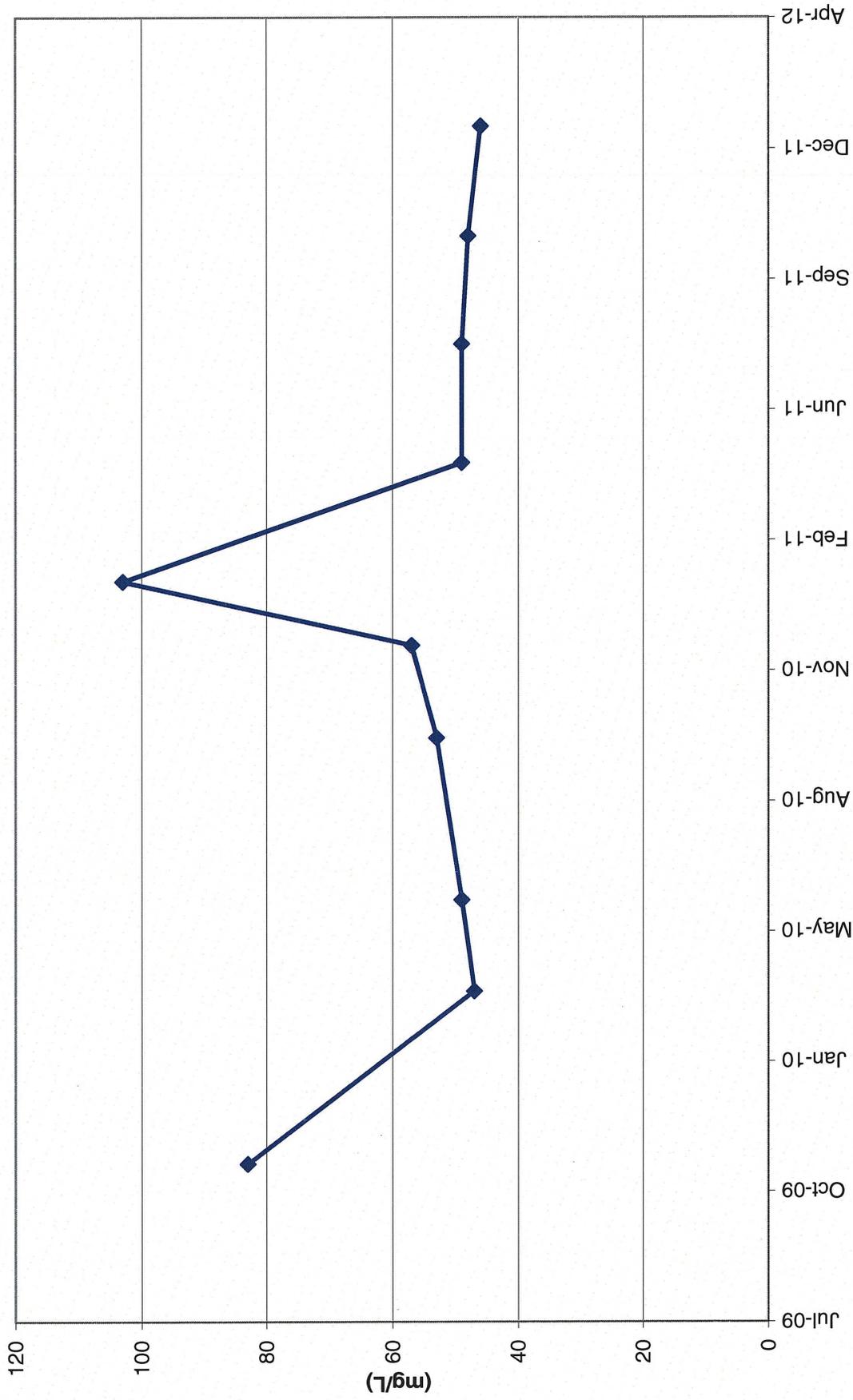
TWN-12 Chloride Concentrations



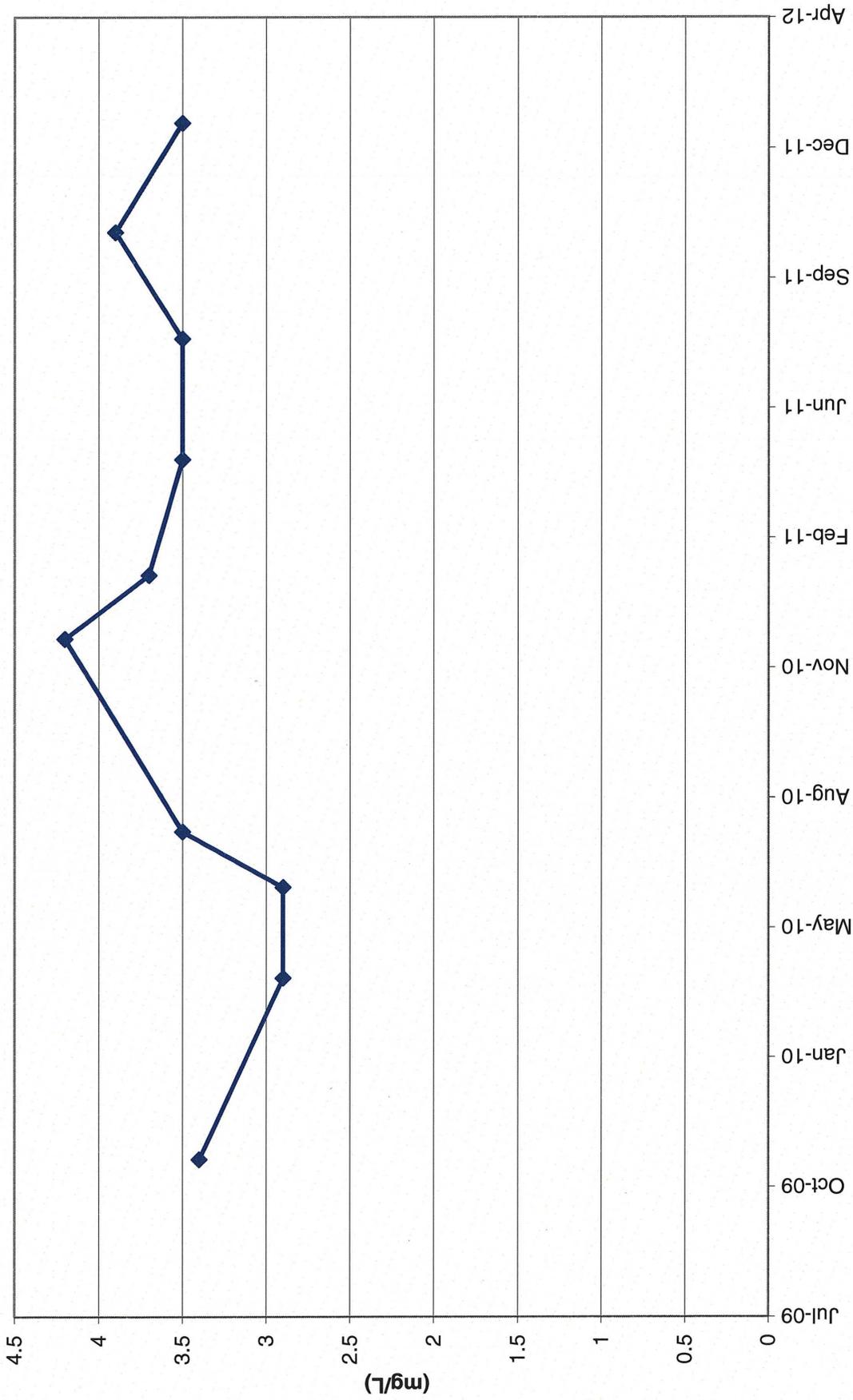
TWN-13 Nitrate Concentrations



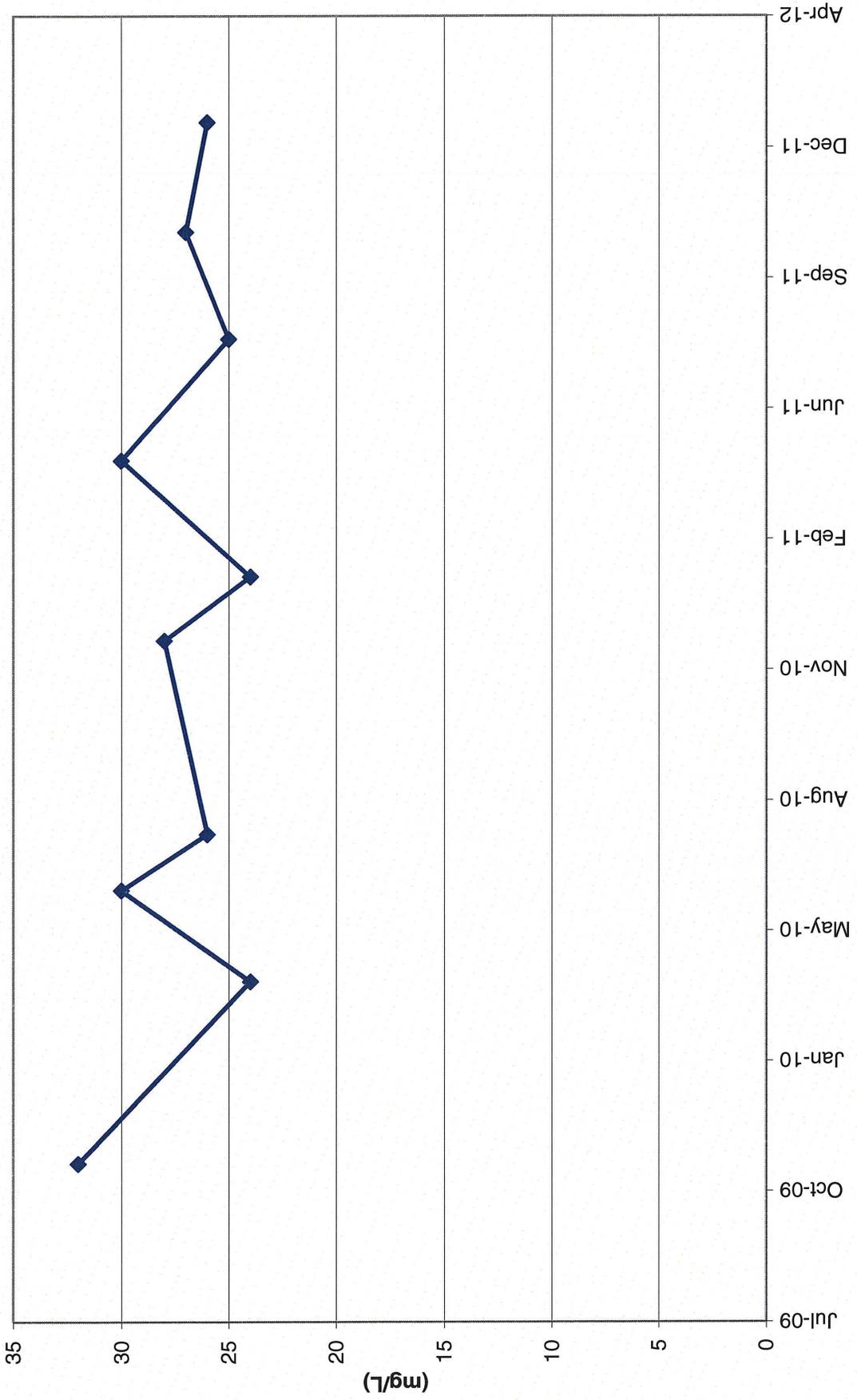
TWN-13 Chloride Concentrations



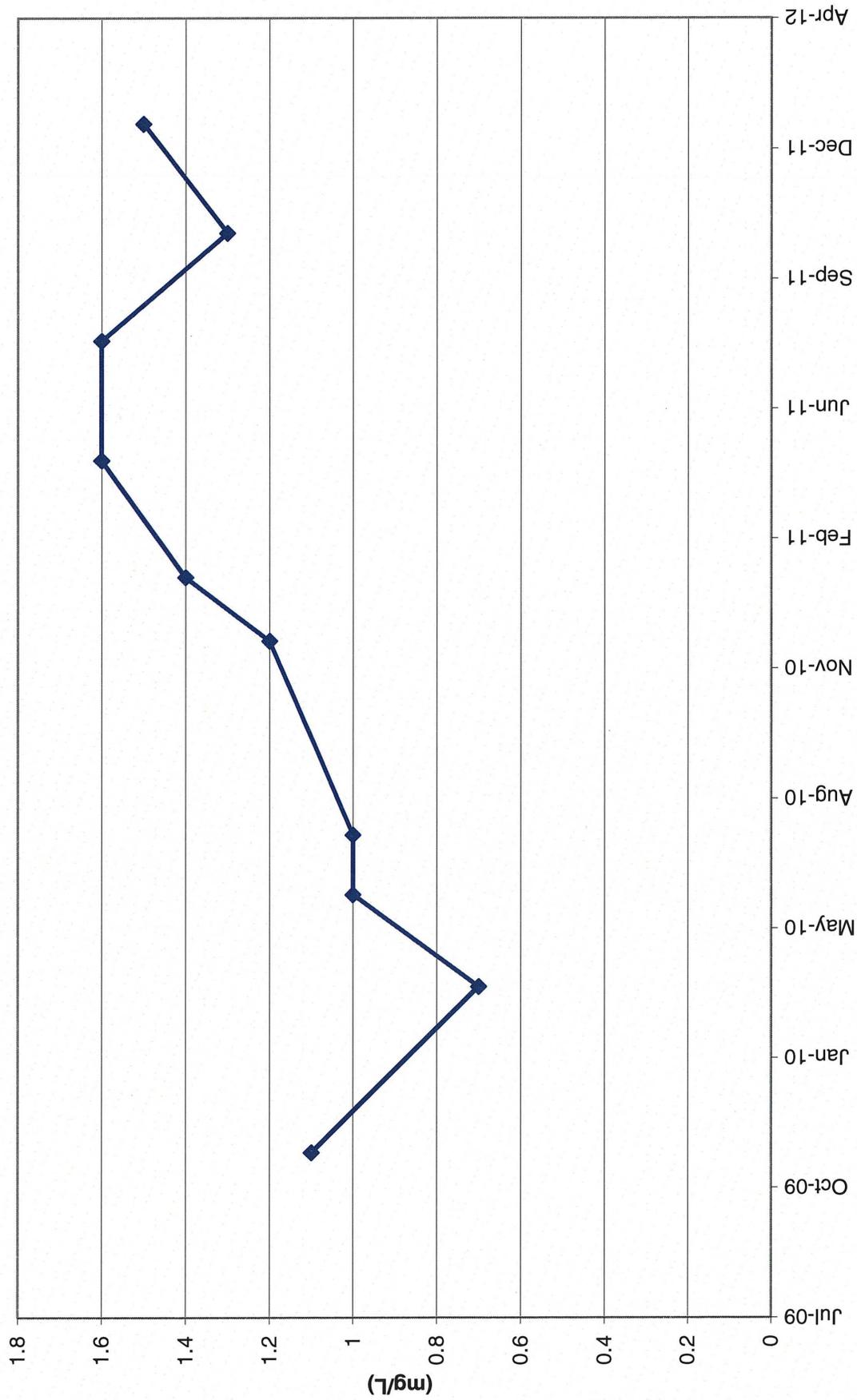
TWN-14 Nitrate Concentrations



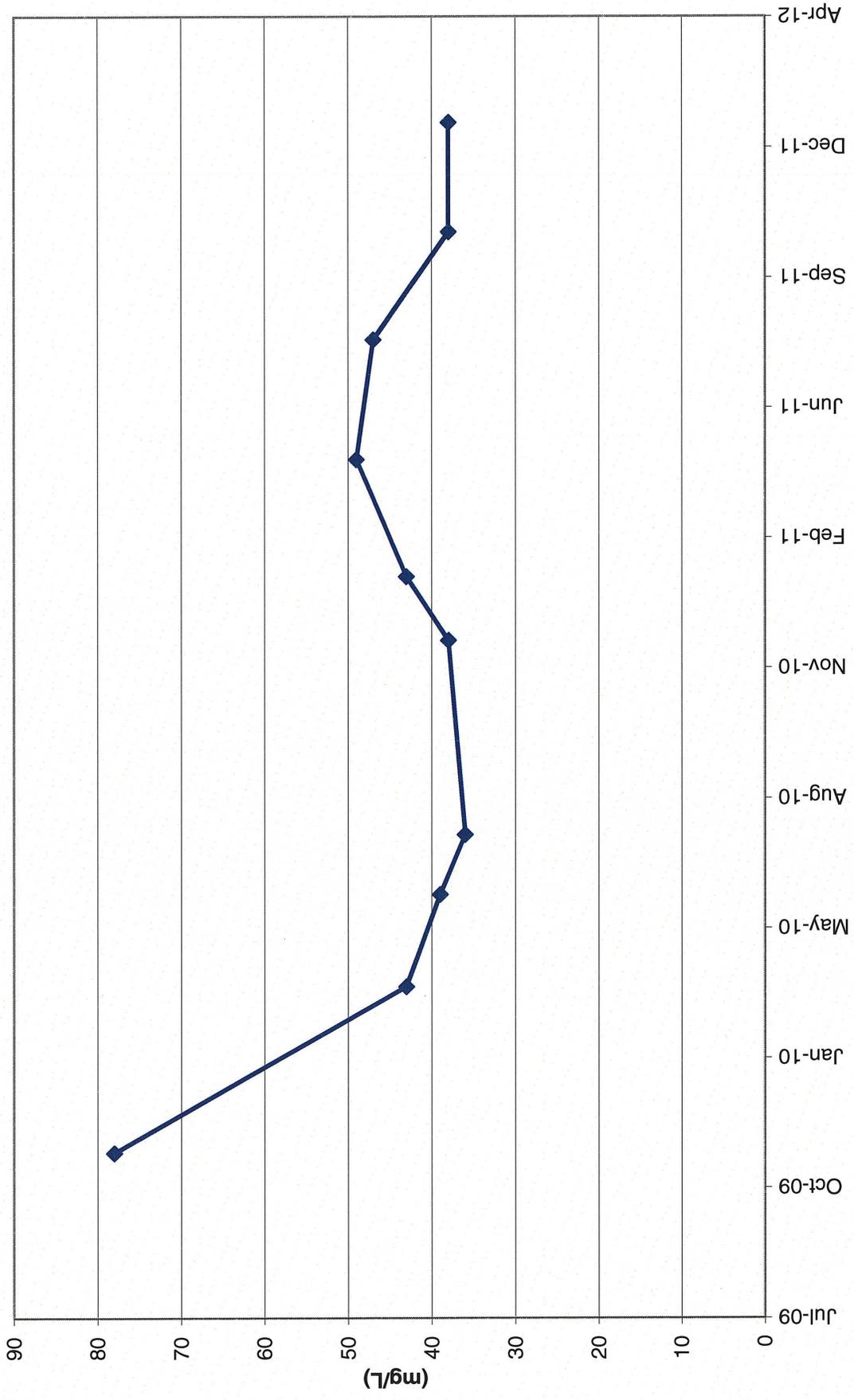
TWN-14 Chloride Concentrations



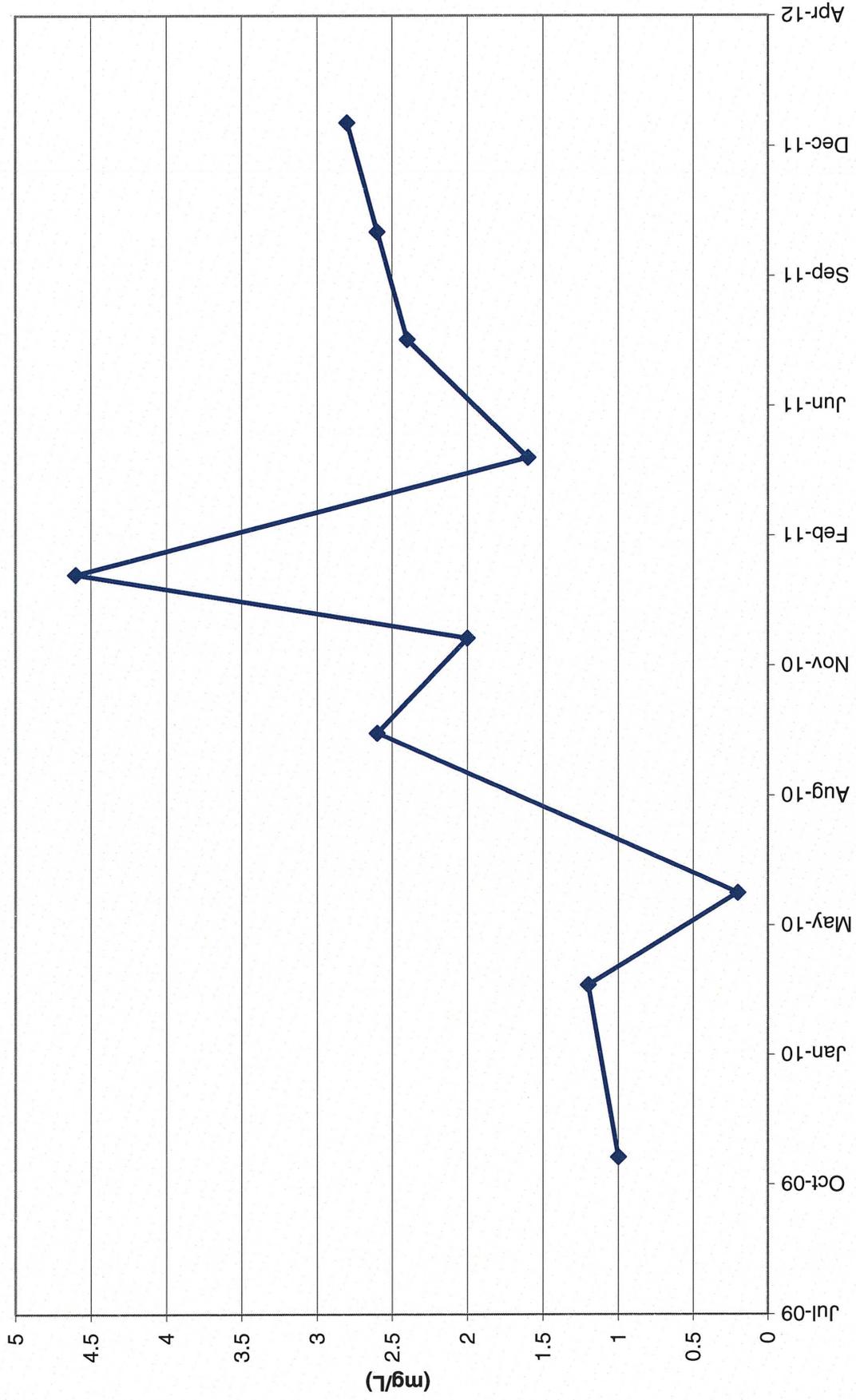
TWN-15 Nitrate Concentrations



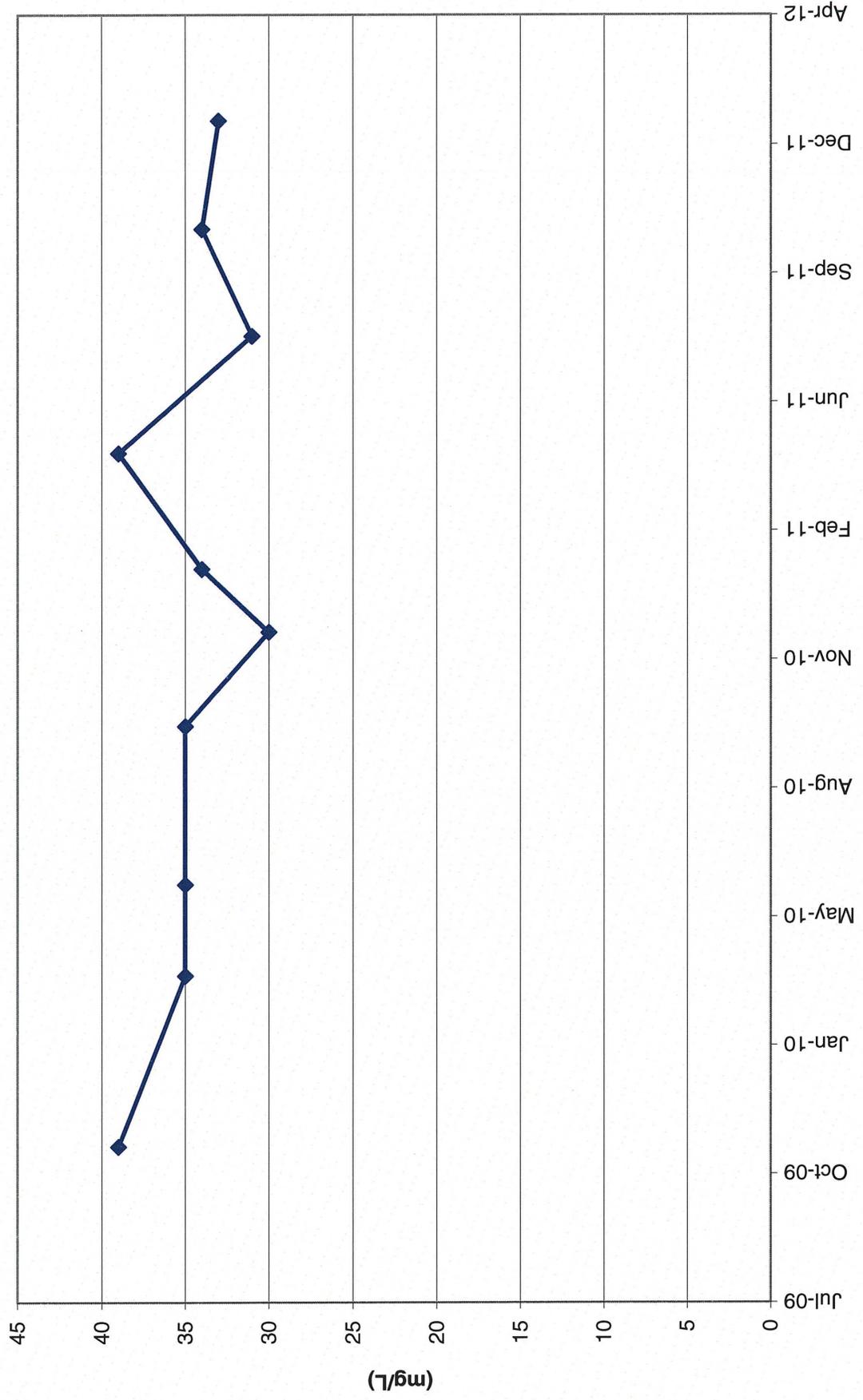
TWN-15 Chloride Concentrations



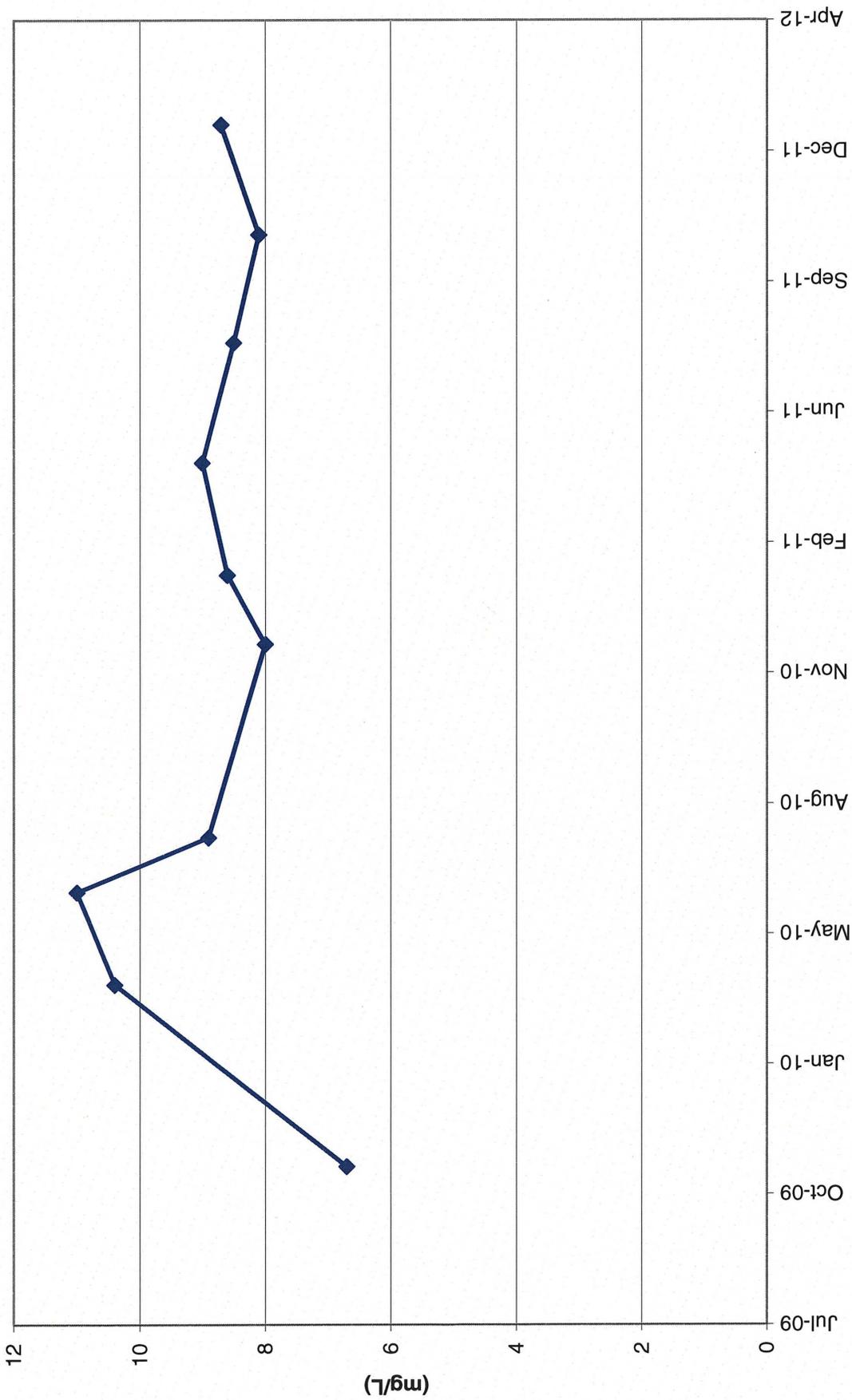
TWN-16 Nitrate Concentrations



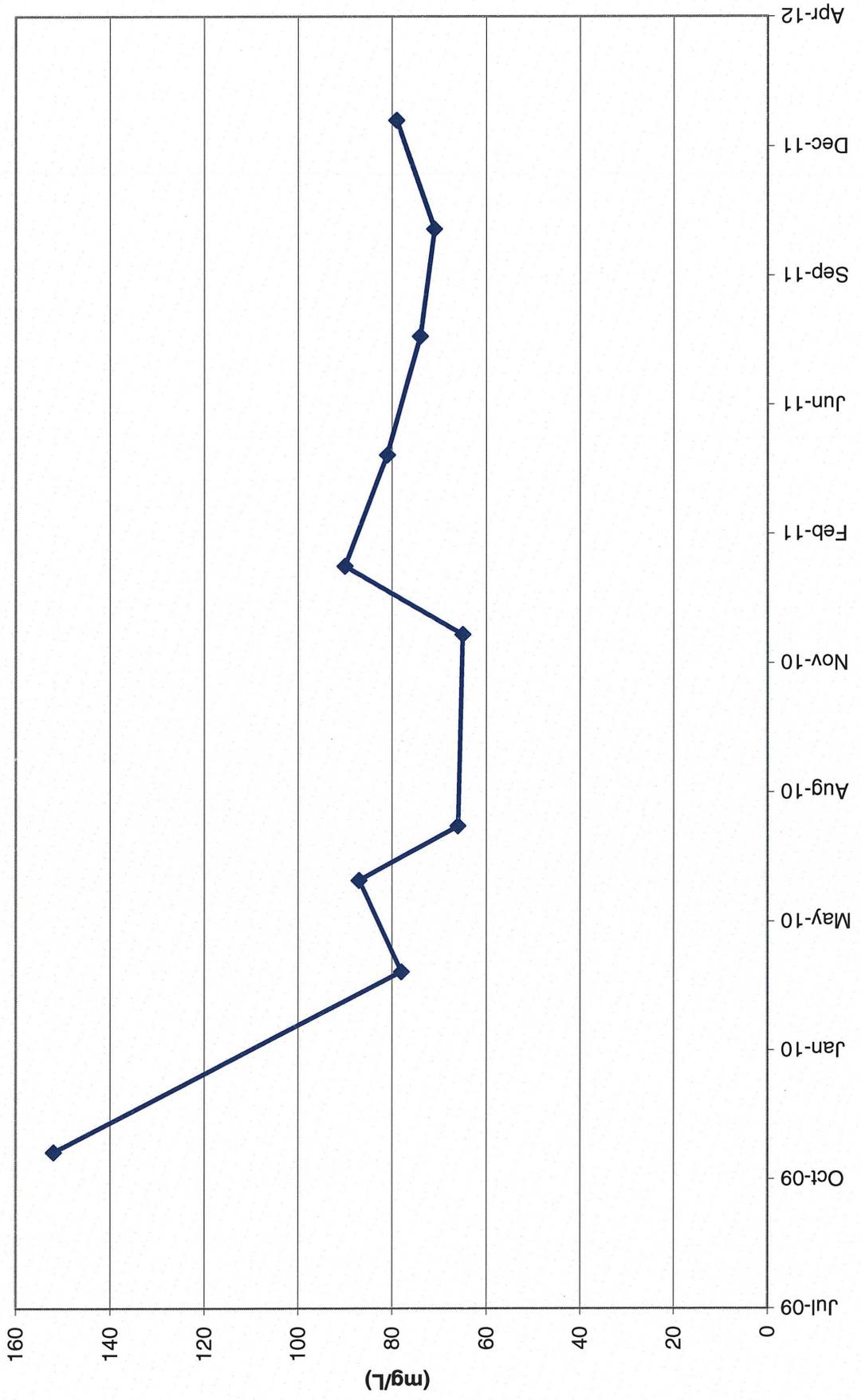
TWN-16 Chloride Concentrations



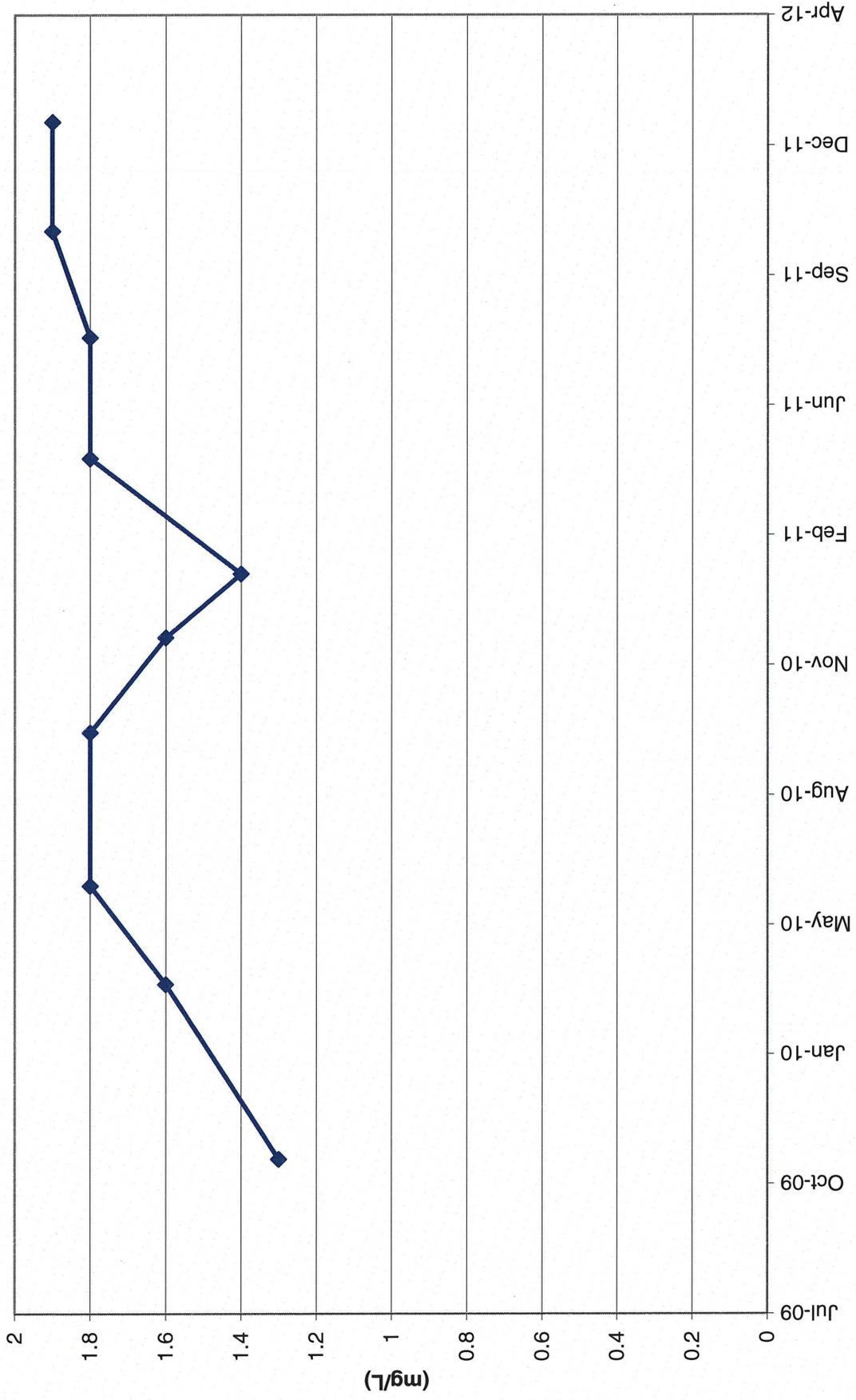
TWN-17 Nitrate Concentrations



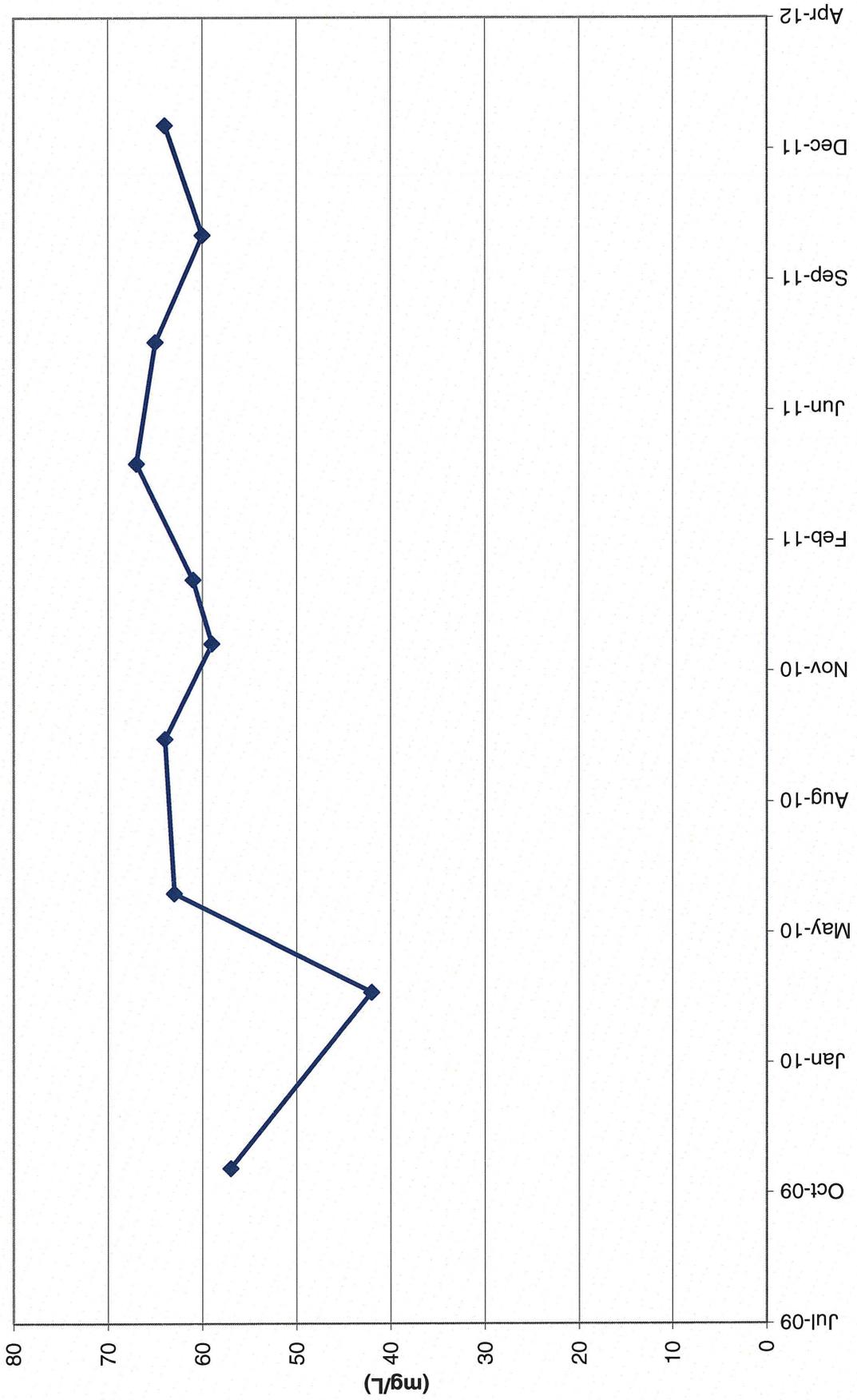
TWN-17 Chloride Concentrations



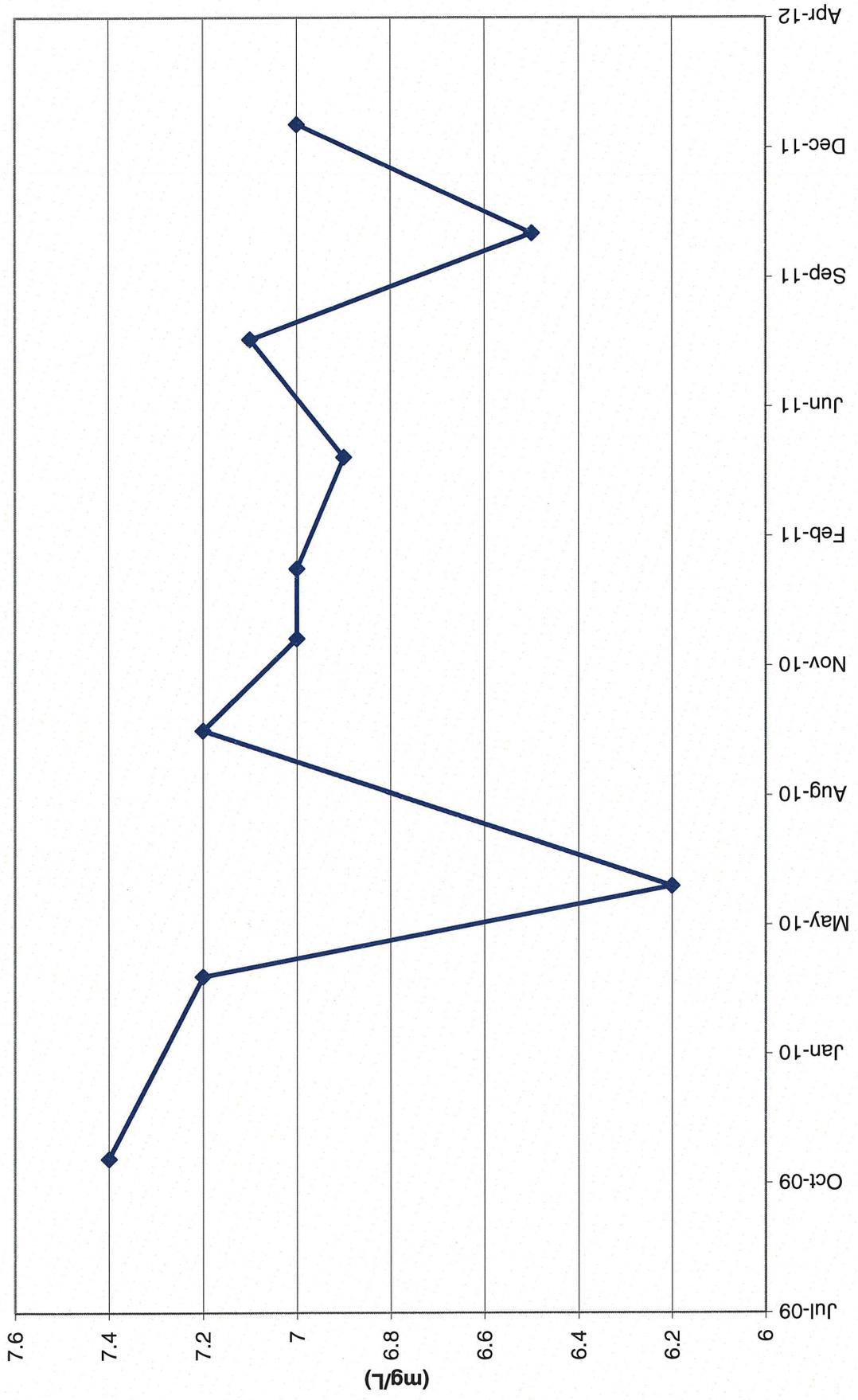
TWN-18 Nitrate Concentrations



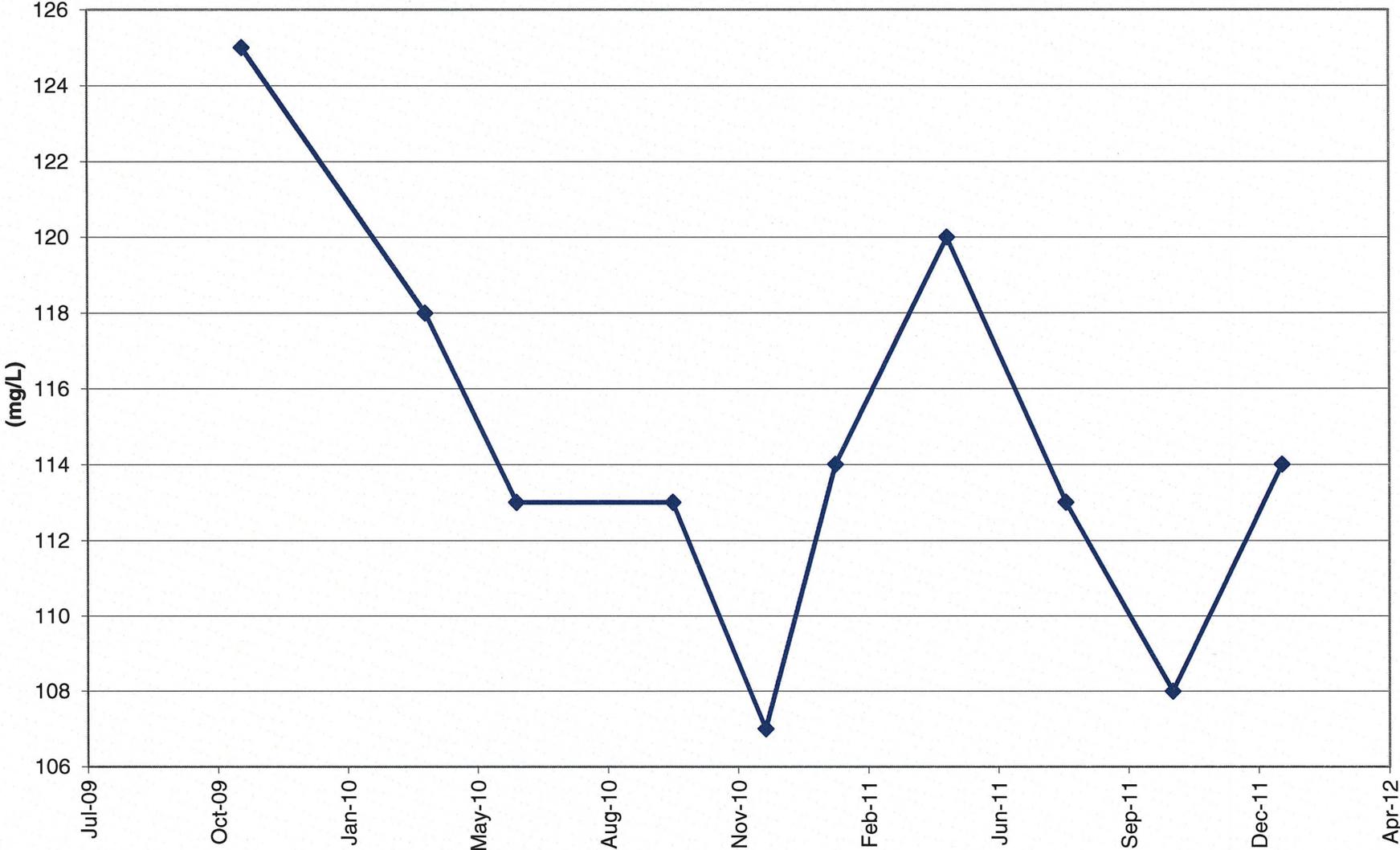
TWN-18 Chloride Concentrations



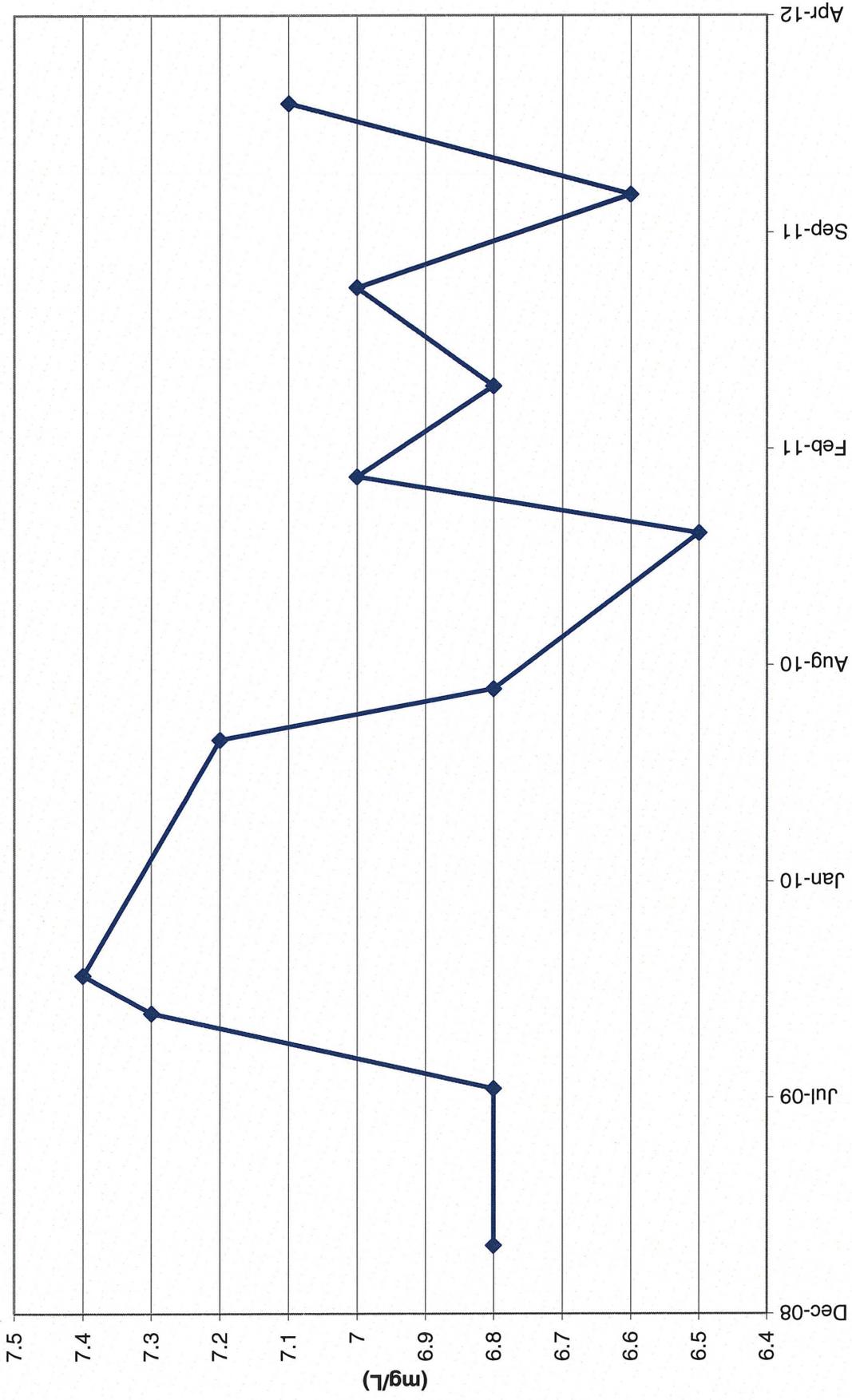
TWN-19 Nitrate Concentrations



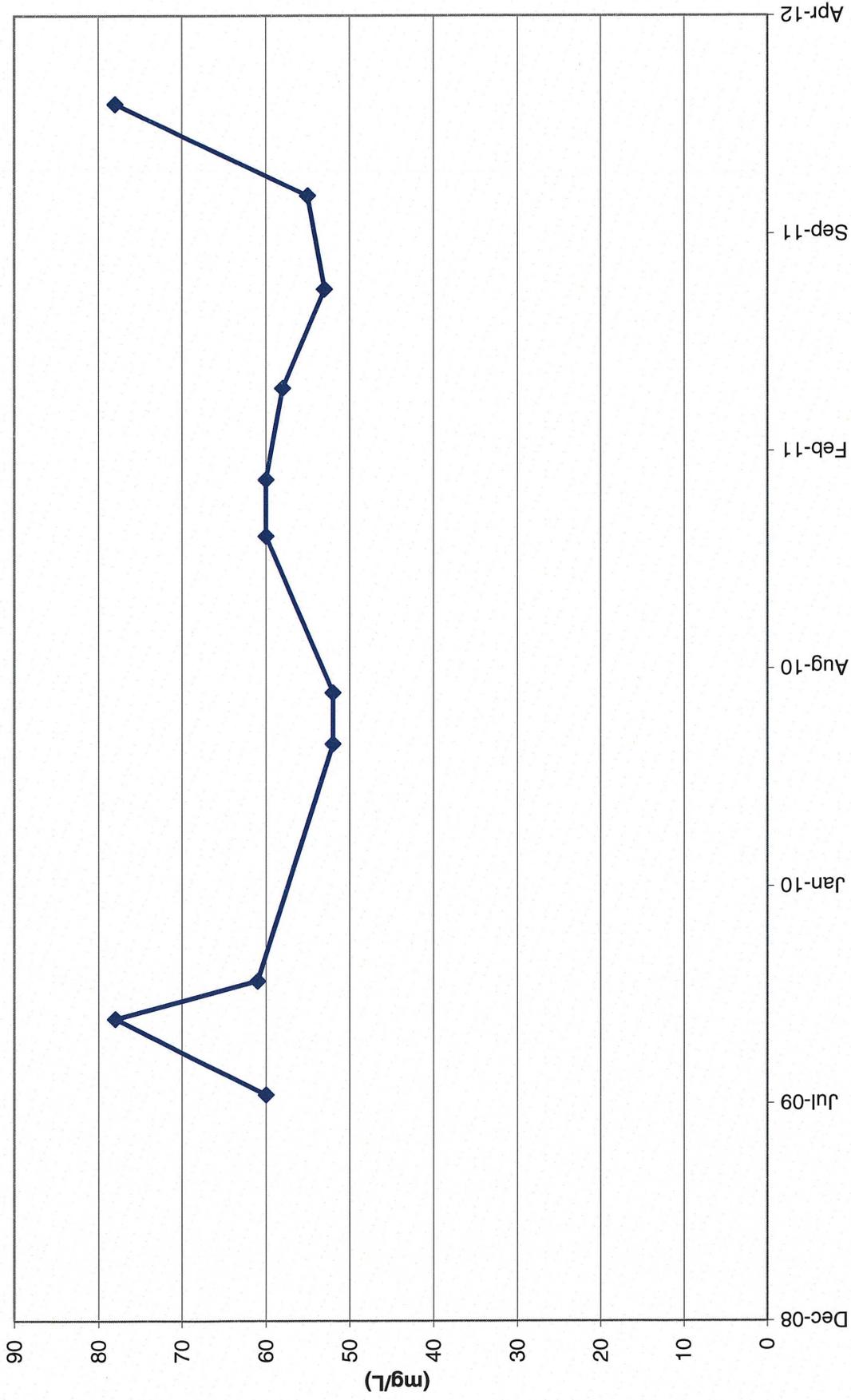
TWN-19 Chloride Concentrations



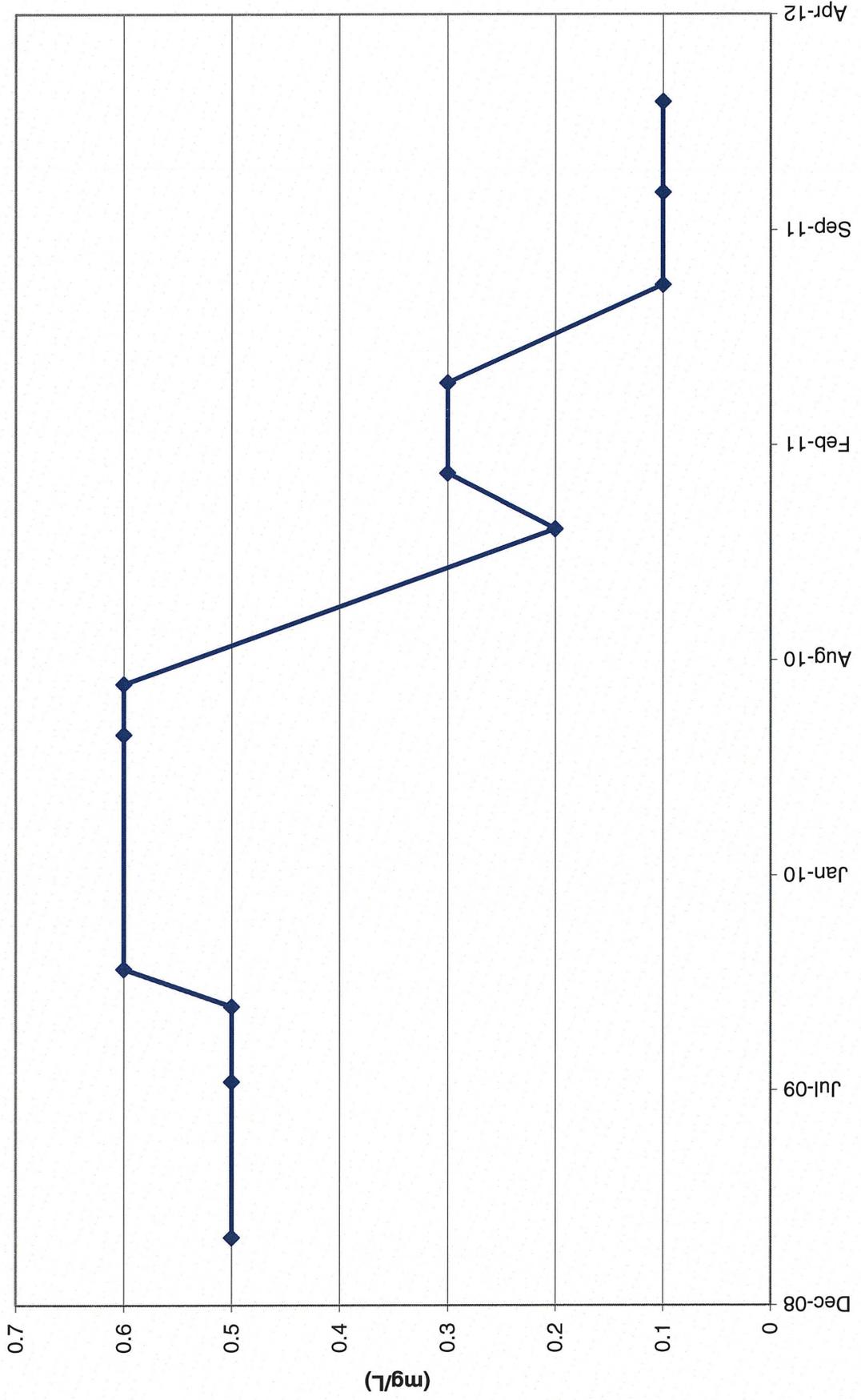
Piezometer 1 Nitrate Concentrations



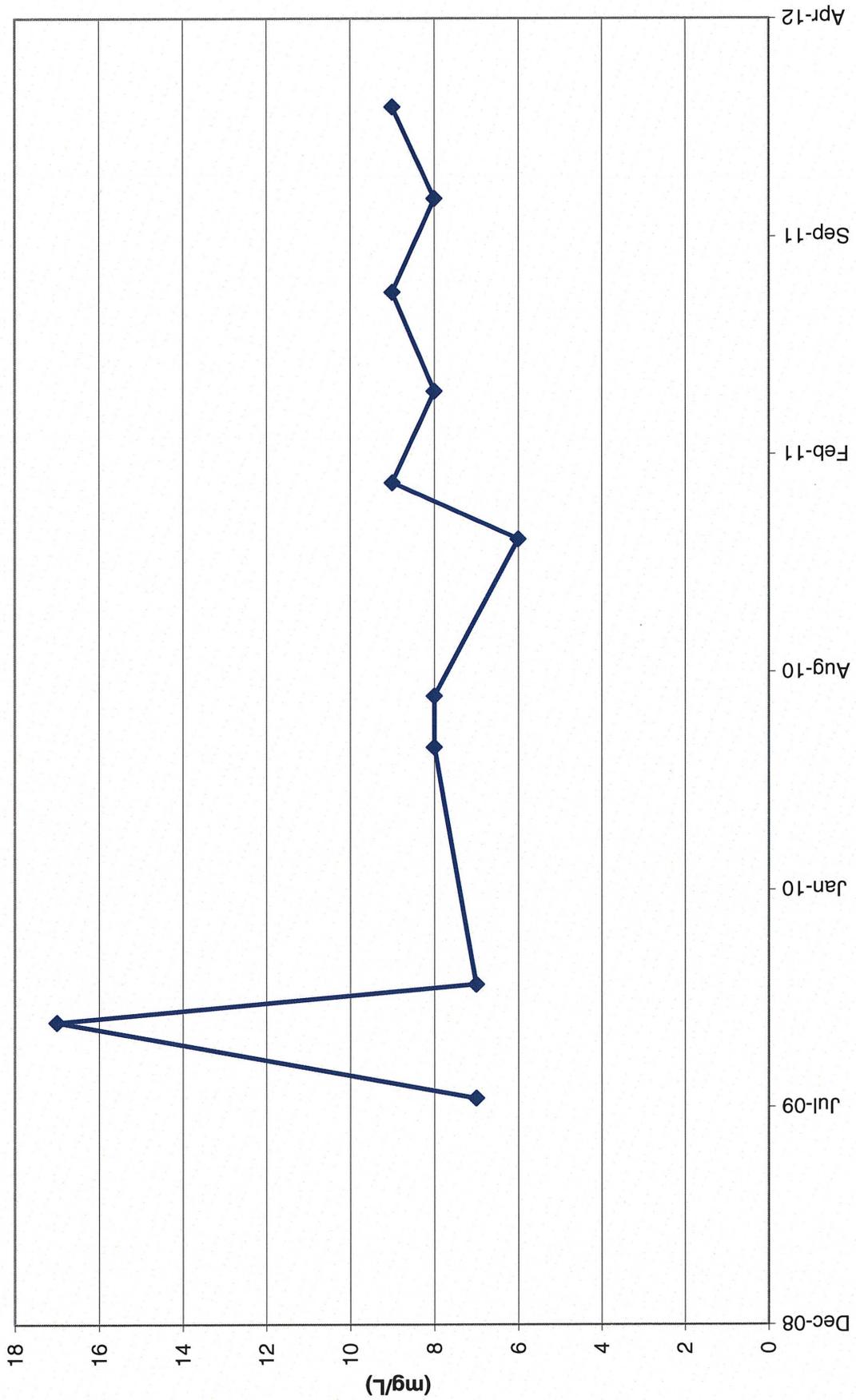
Piezometer 1 Chloride Concentrations



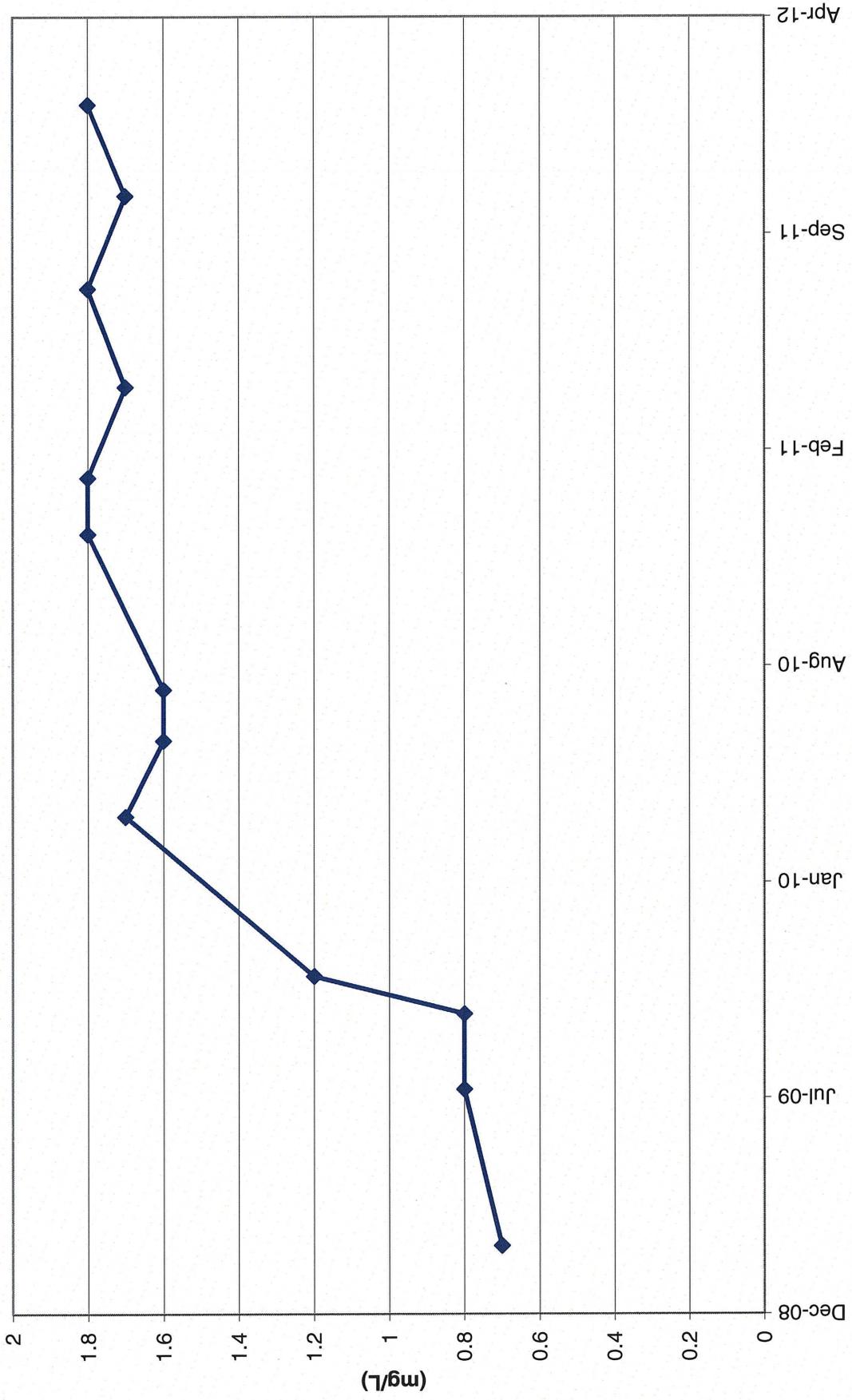
Piezometer 2 Nitrate Concentrations



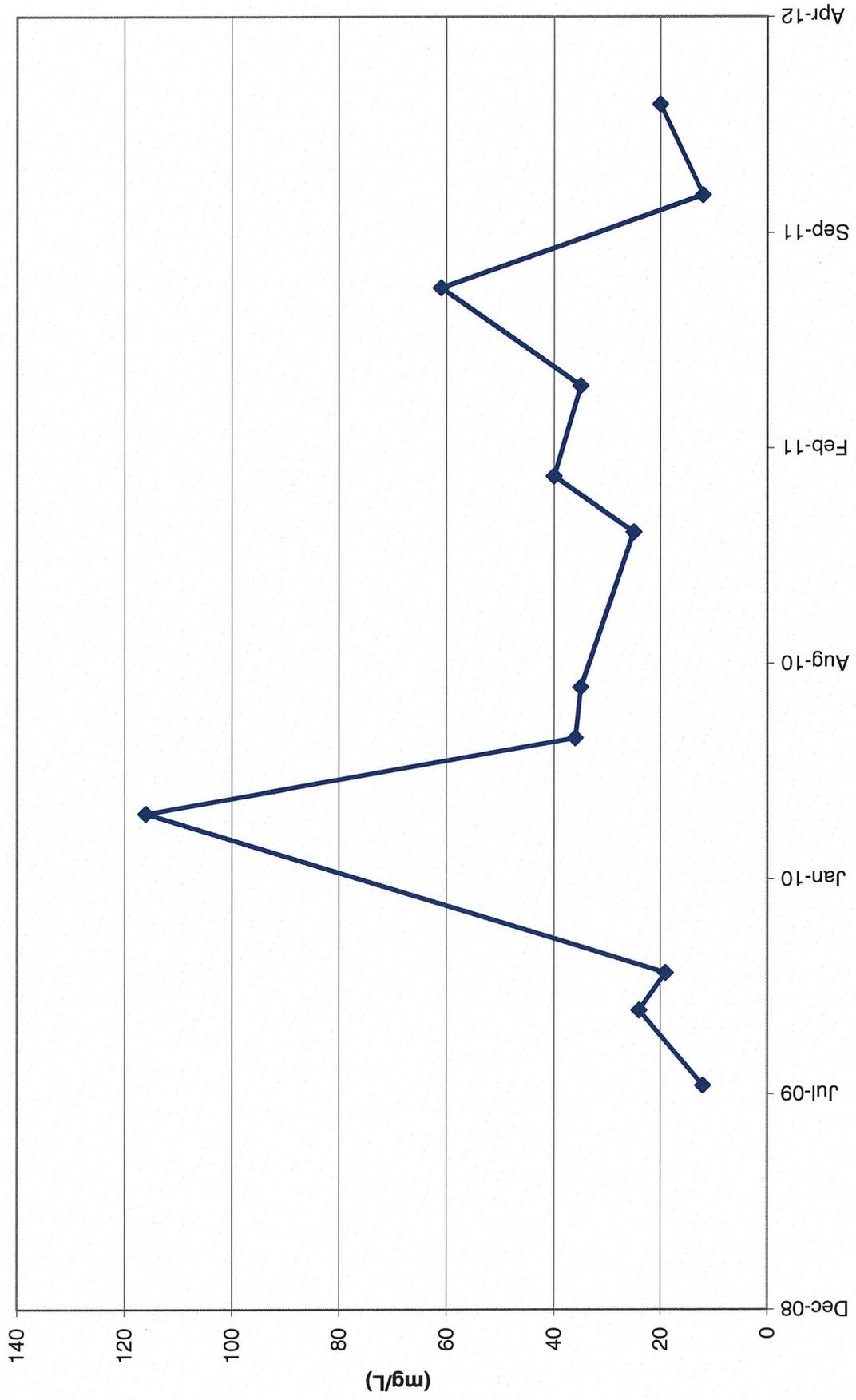
Piezometer 2 Chloride Concentrations



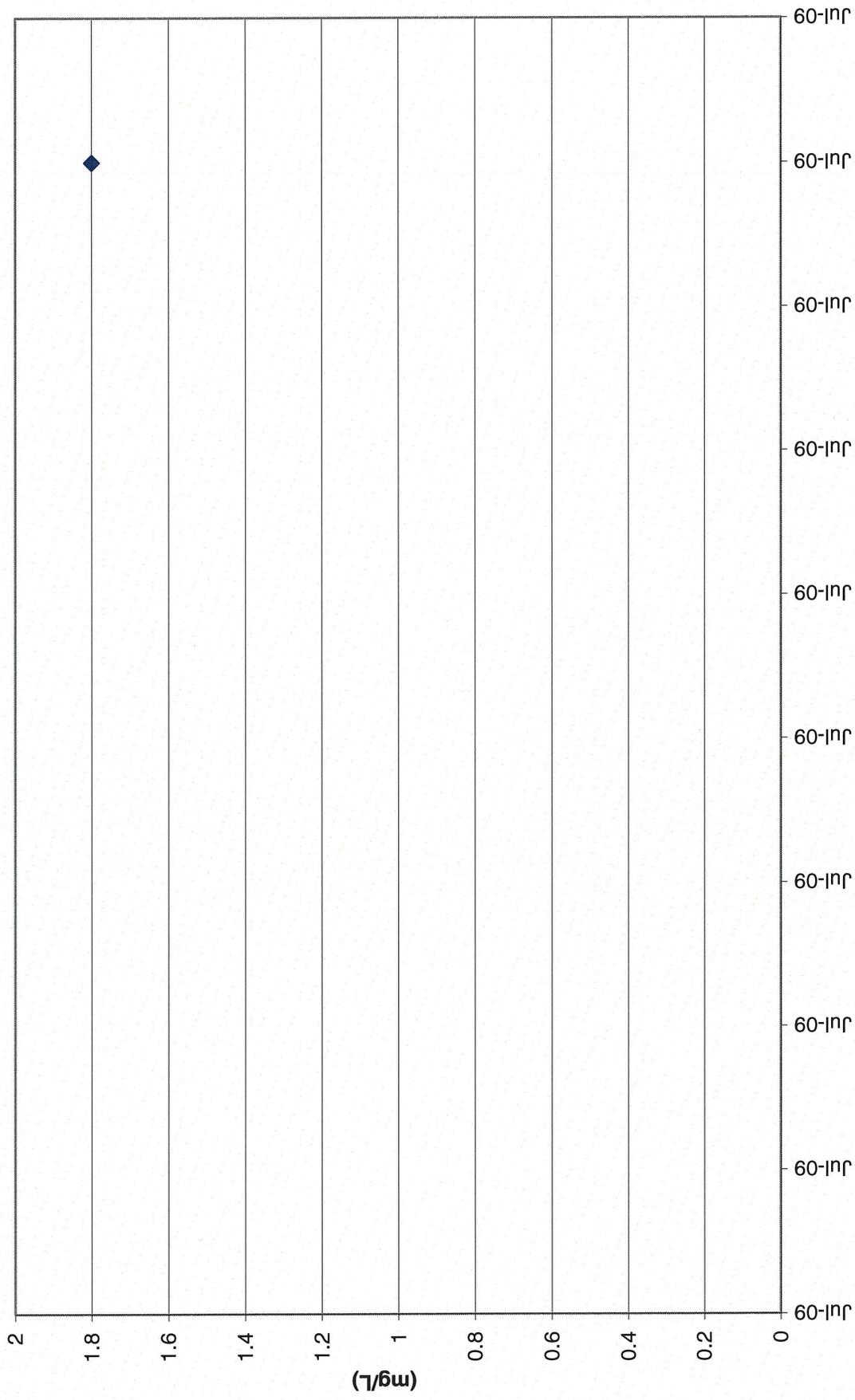
Piezometer 3 Nitrate Concentrations



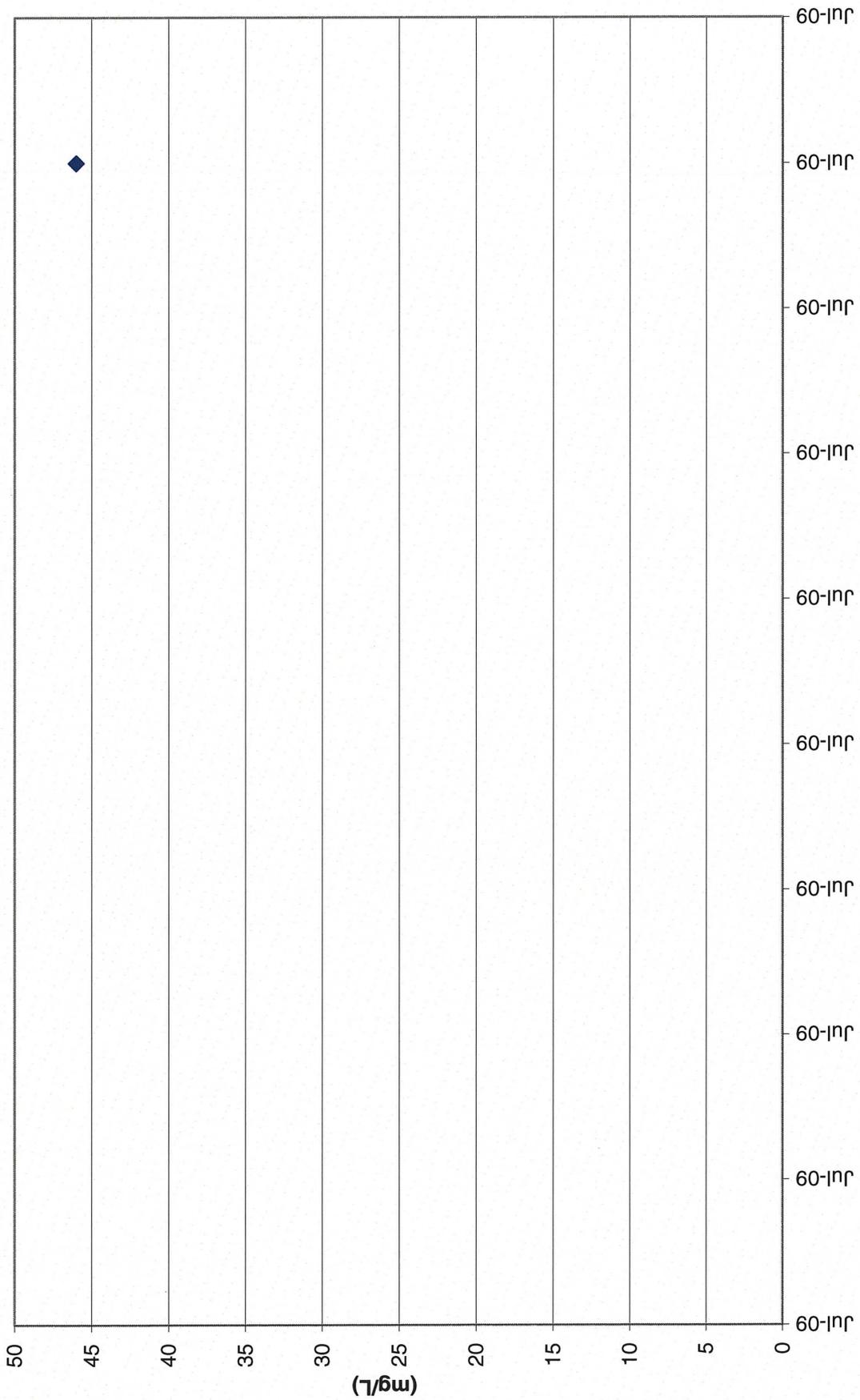
Piezometer 3 Chloride Concentrations



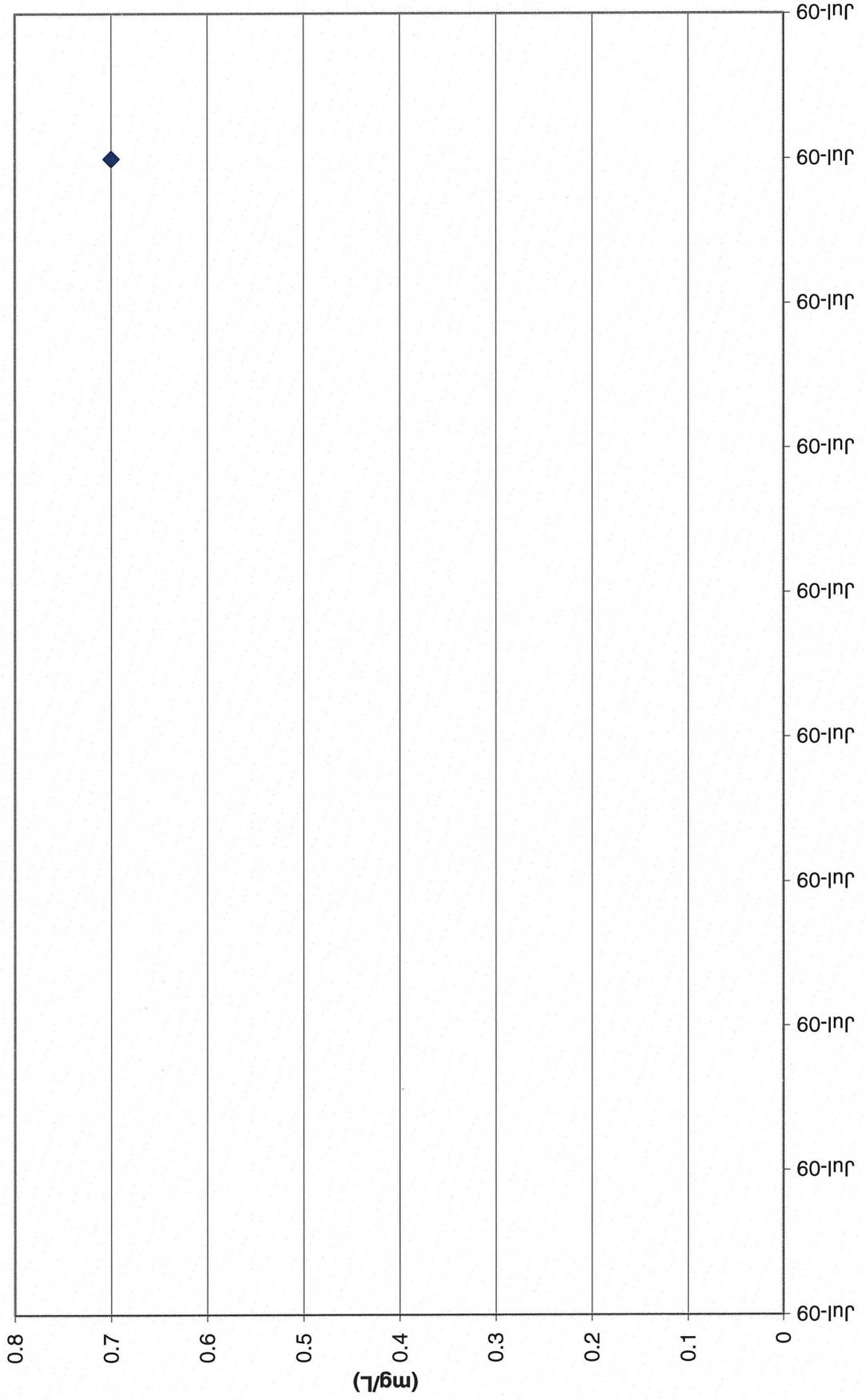
Piezometer 4 Nitrate Concentrations



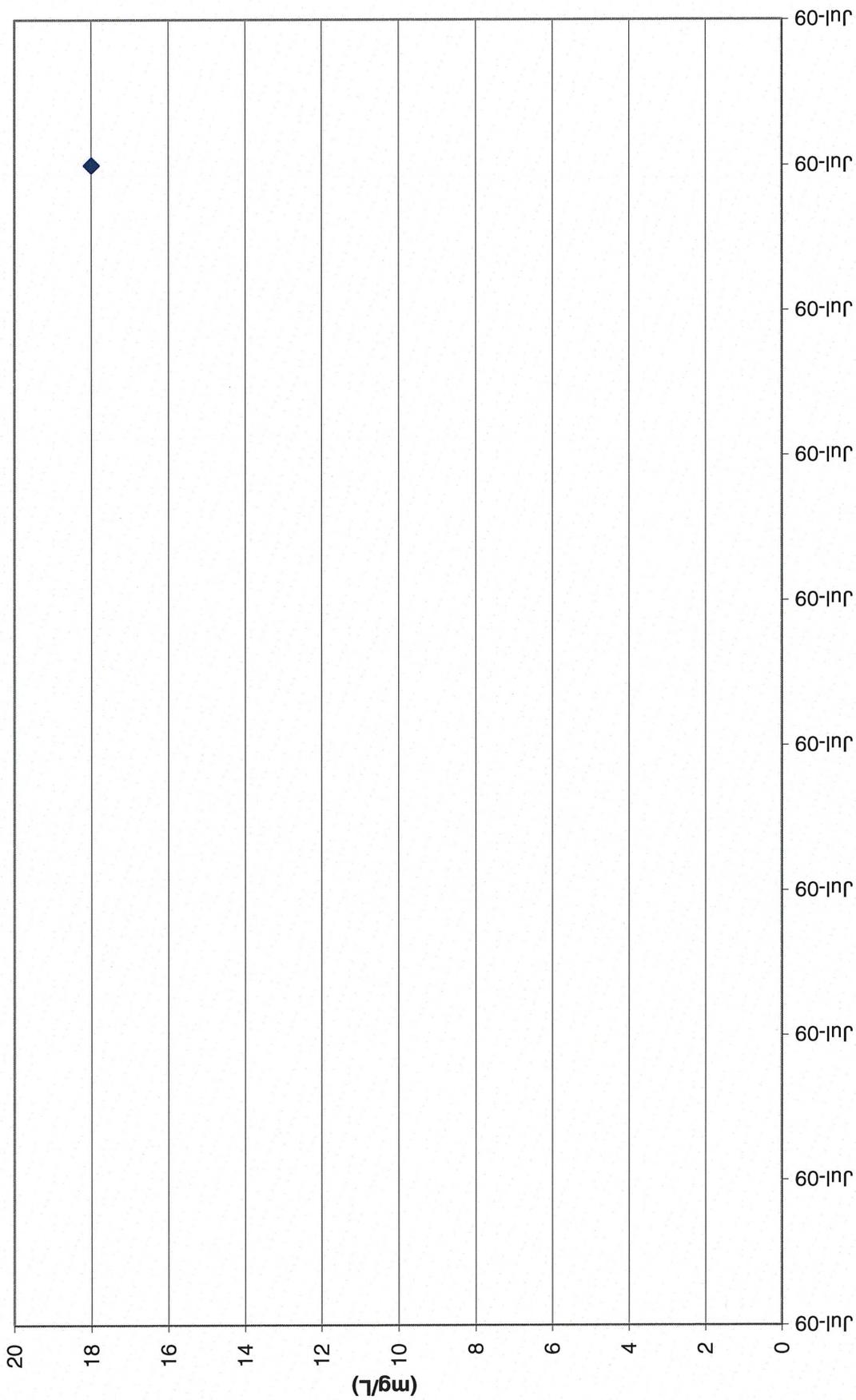
Piezometer 4 Chloride Concentrations



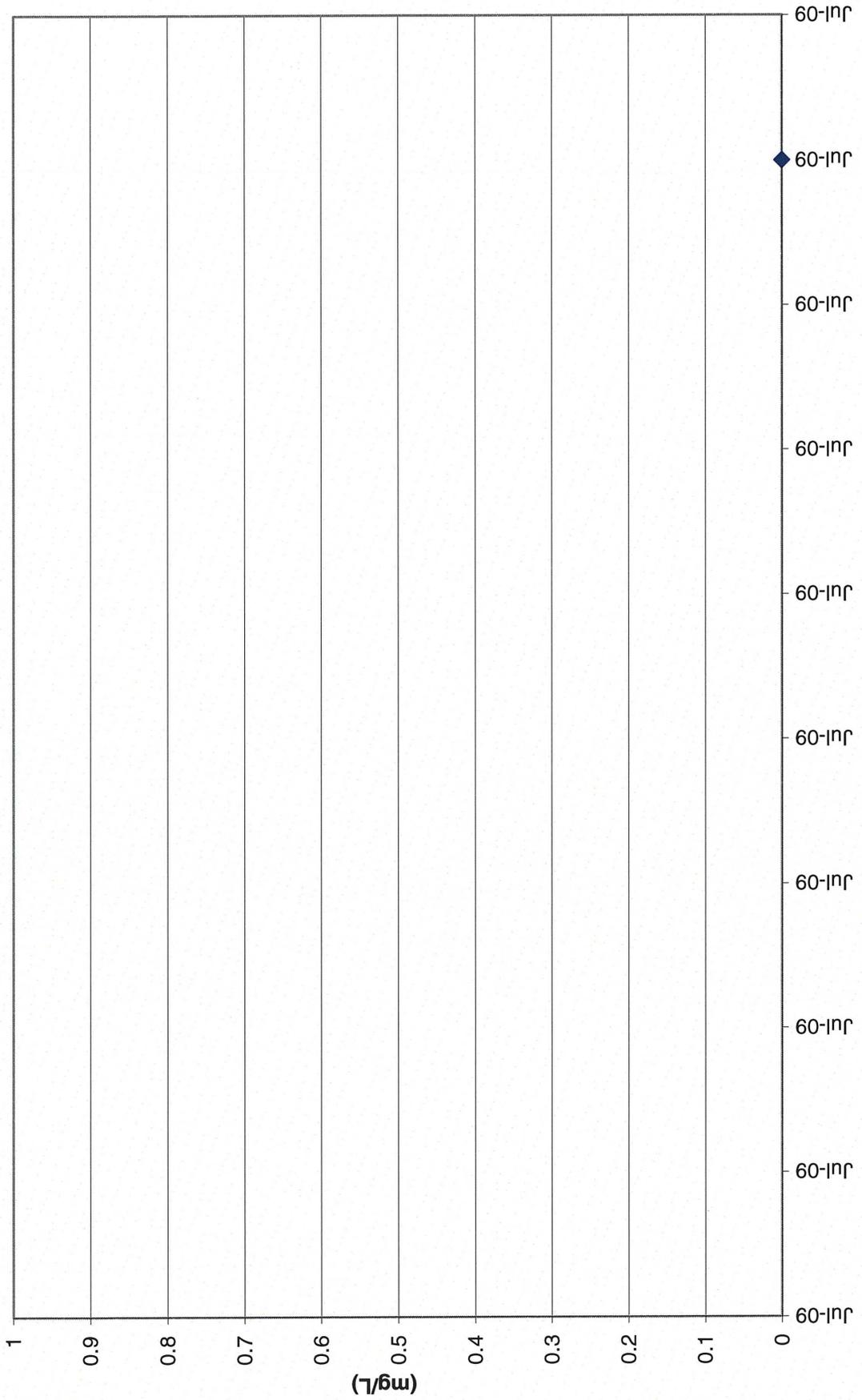
Piezometer 5 Nitrate Concentrations



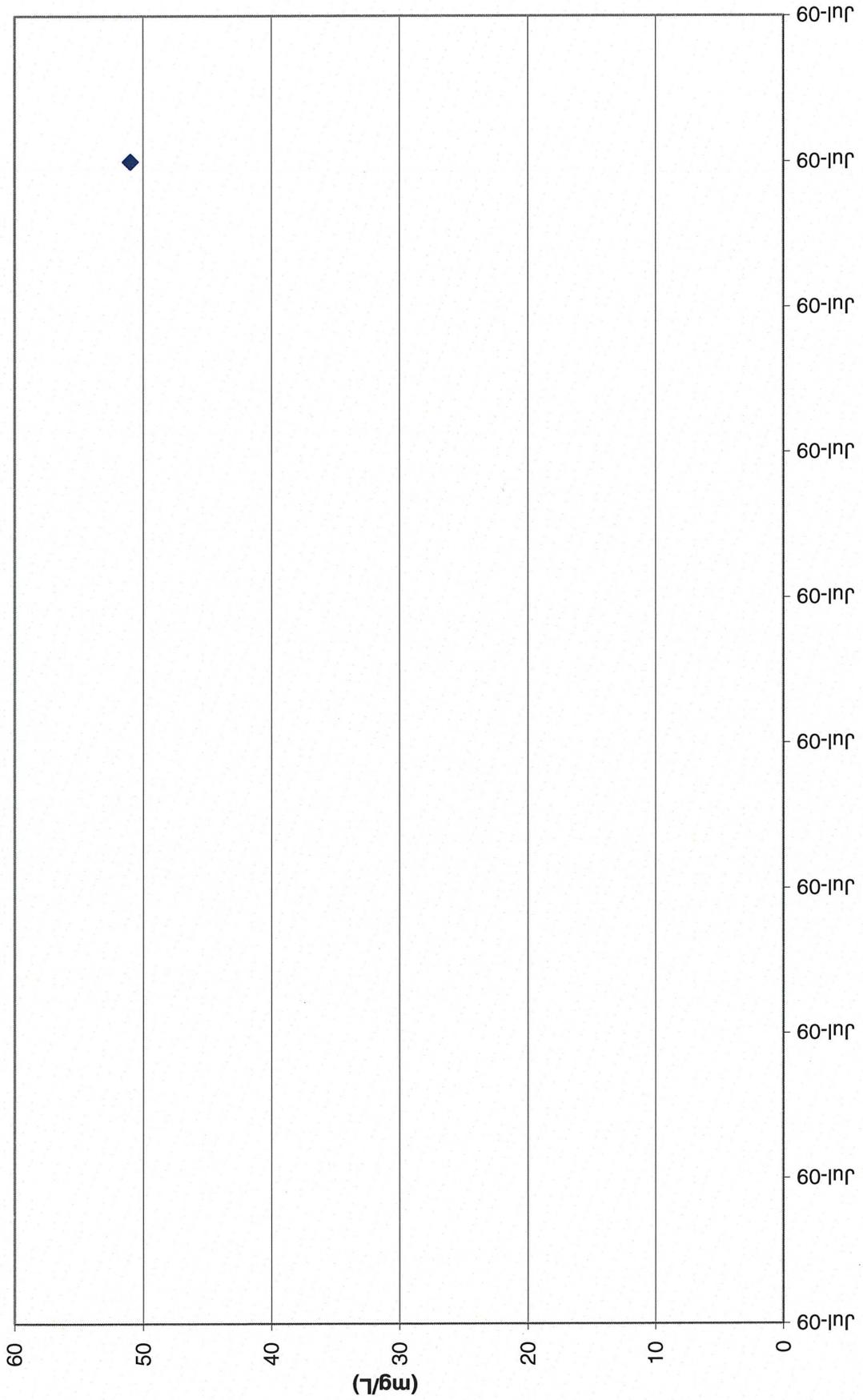
Piezometer 5 Chloride Concentrations



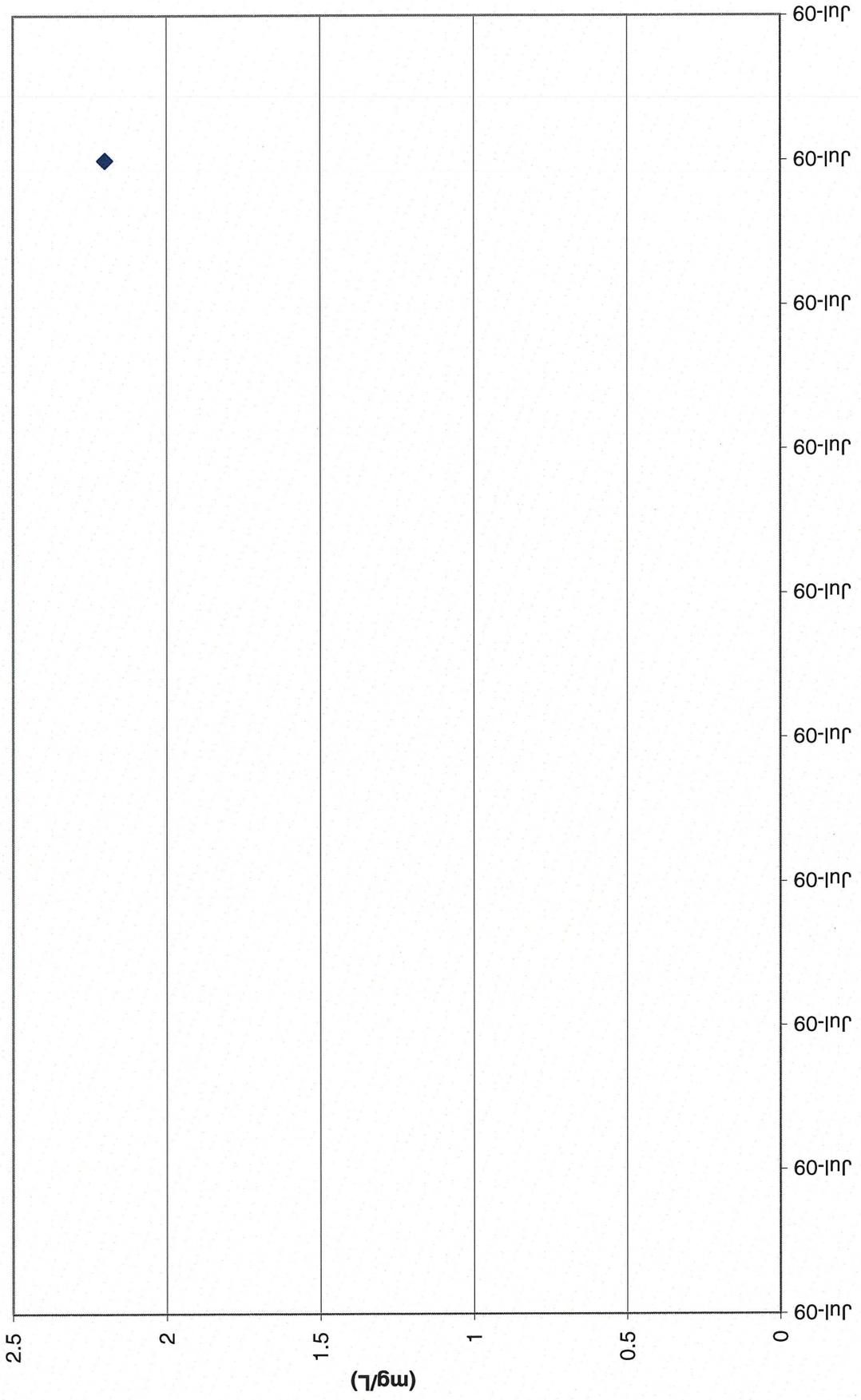
MW-18 Nitrate Concentrations



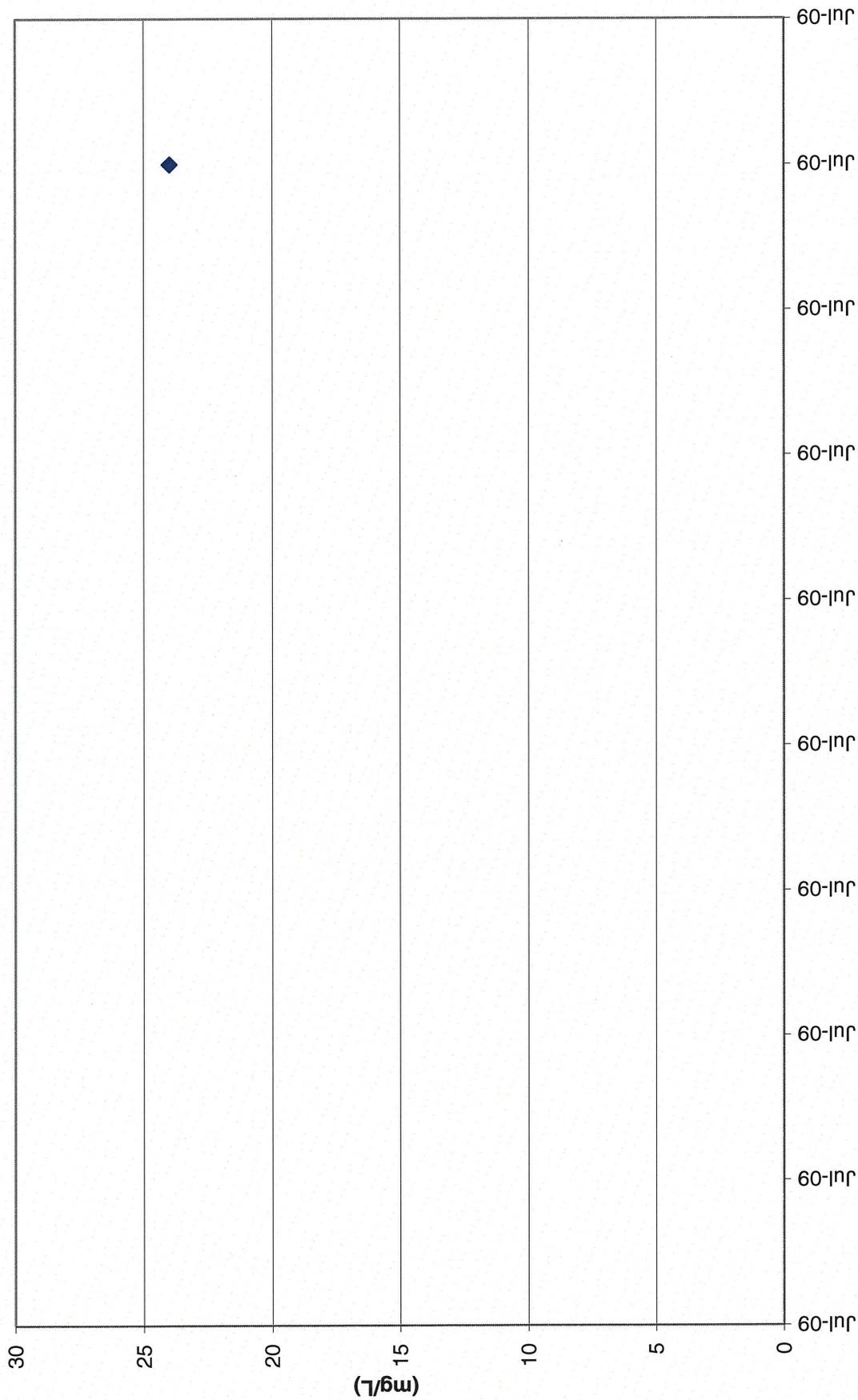
MW-18 Chloride Concentrations



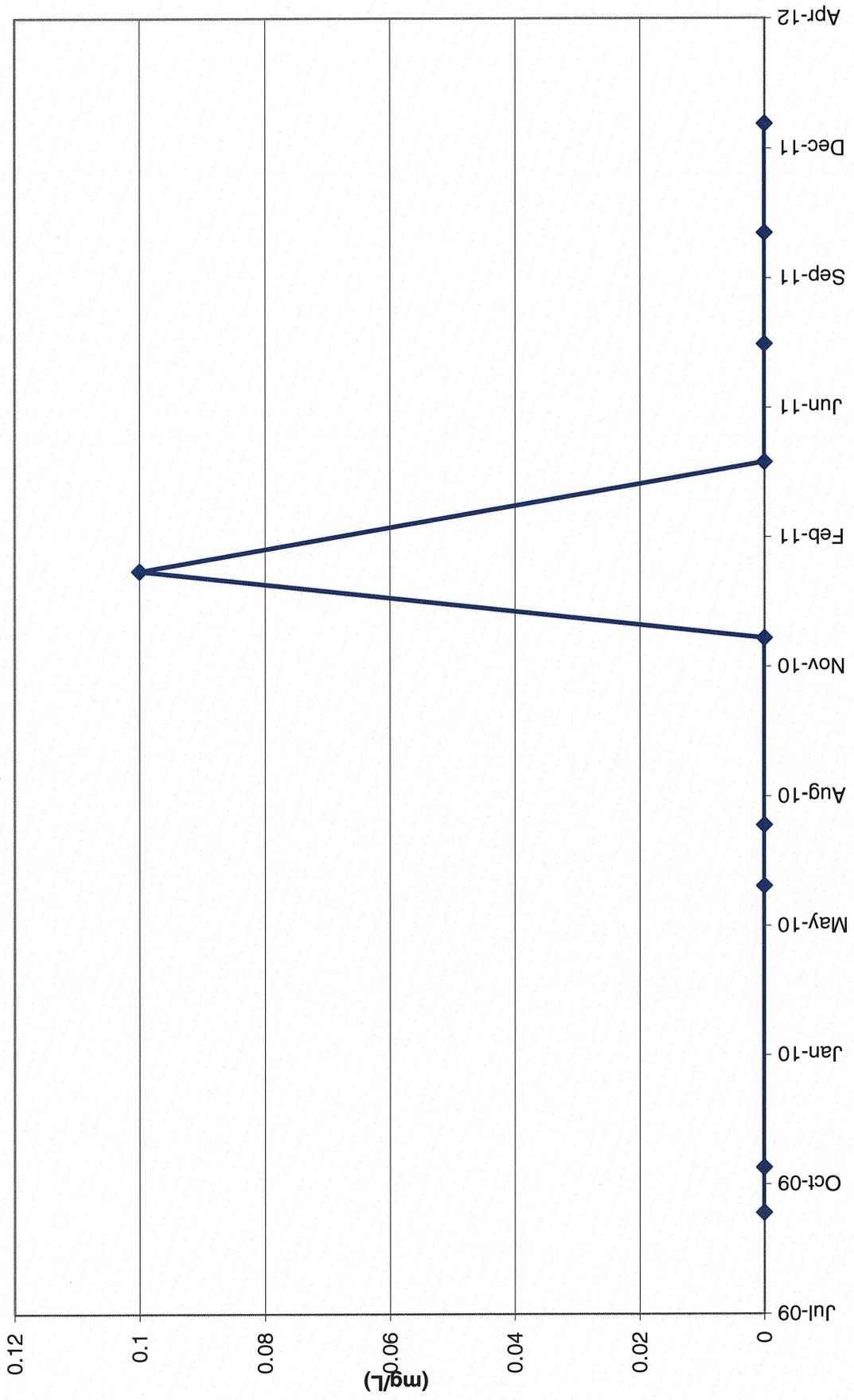
MW-19 Nitrate Concentrations



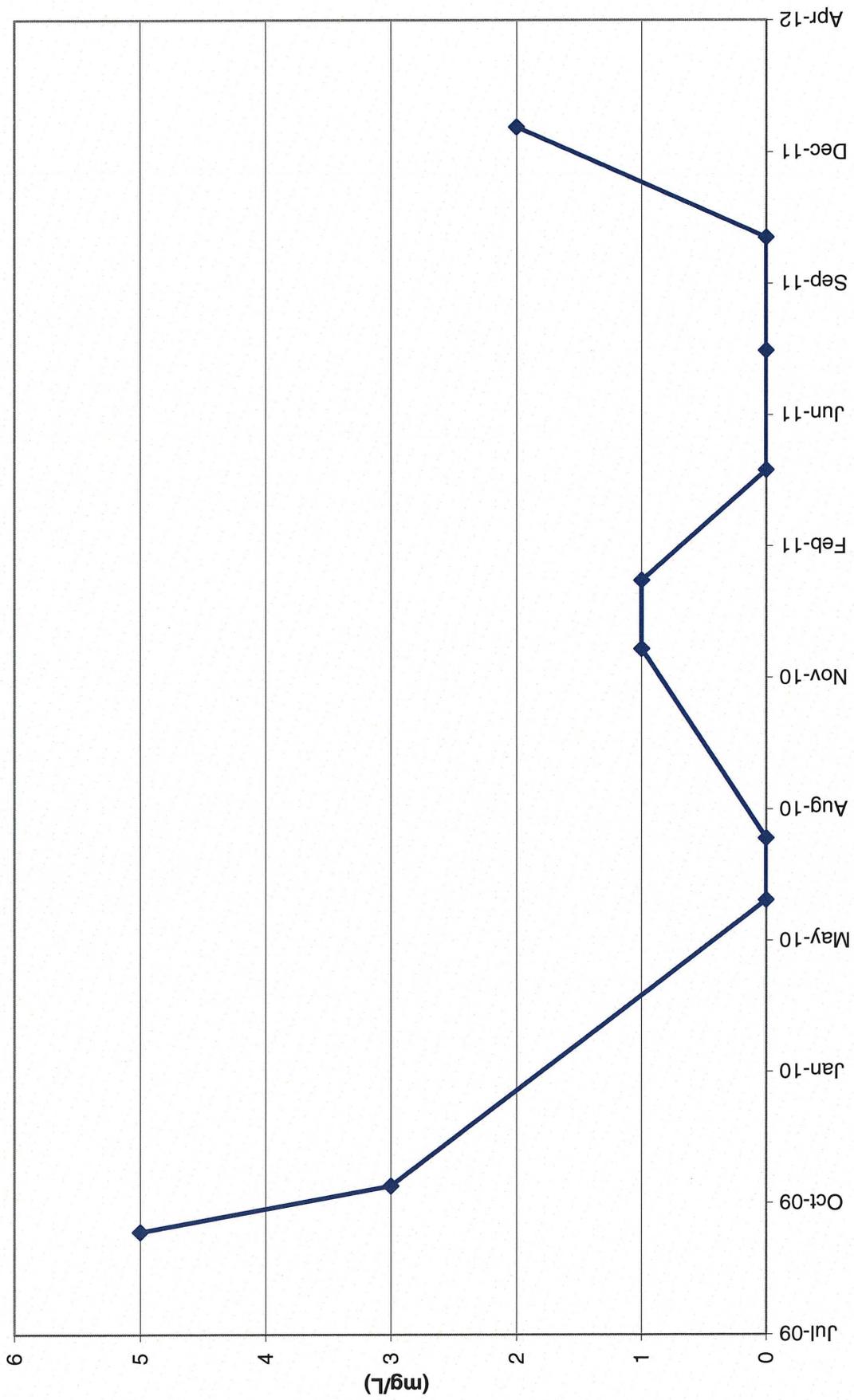
MW-19 Chloride Concentrations



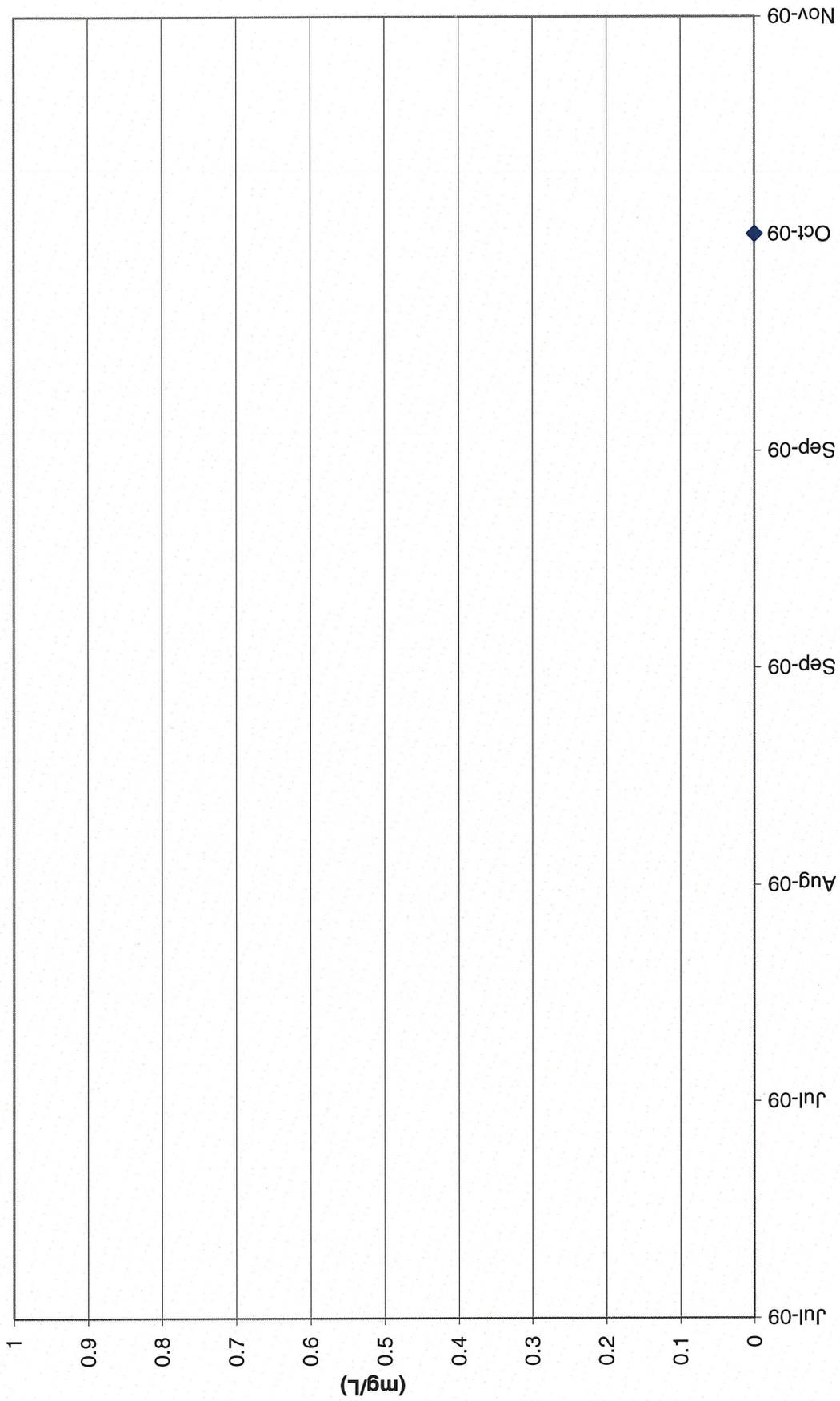
Upper Wildlife Pond Nitrate Concentrations



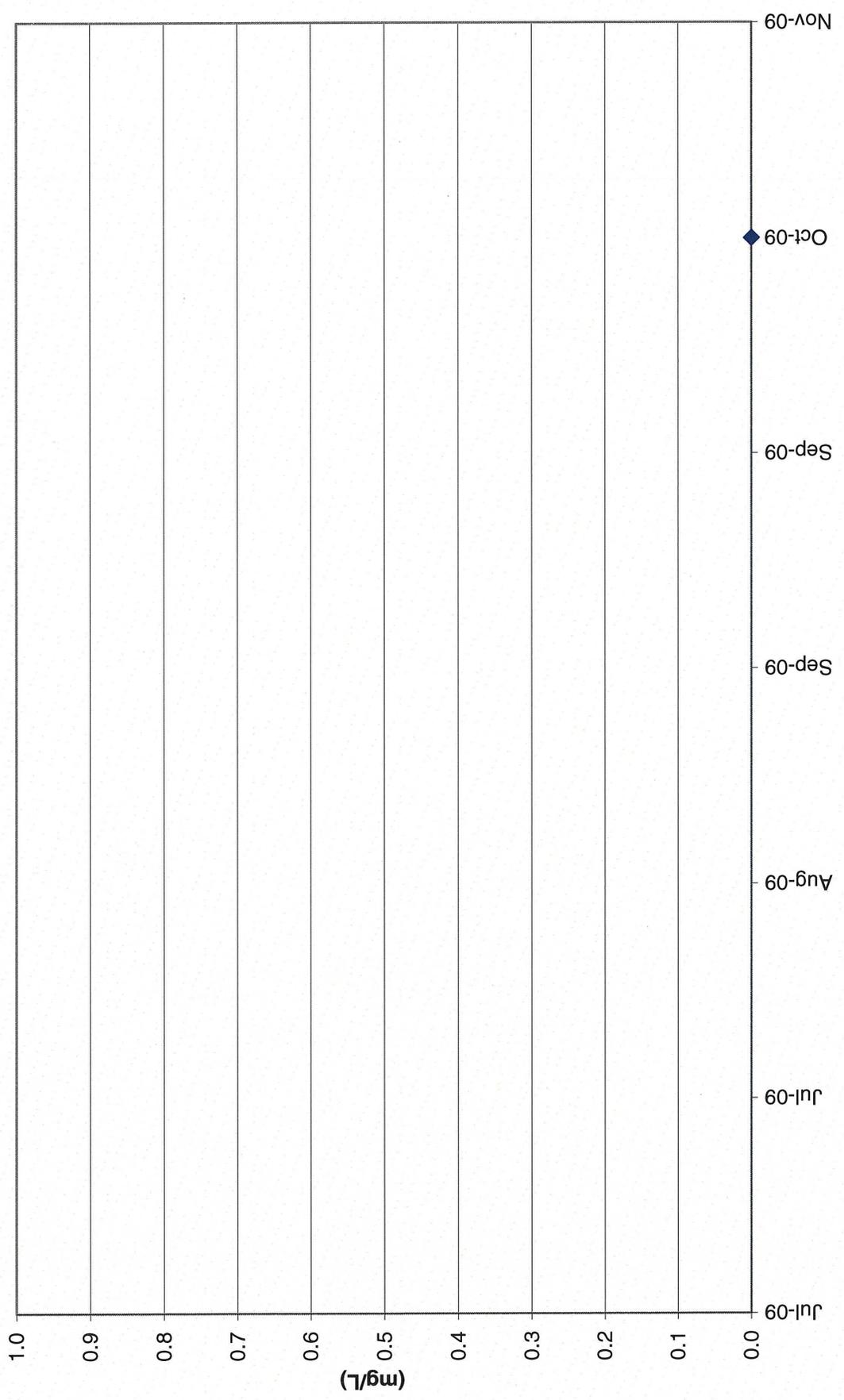
Upper Wildlife Pond Chloride Concentrations



Frog Pond Nitrate Concentrations



Frog Pond Chloride Concentrations



Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Tuesday, May 29, 2012 1:38 PM
To: 'rlundberg@utah.gov'
Cc: 'Pgoble@utah.gov'; 'TRUSHING@utah.gov'; Ron Hochstein; David Frydenlund; Jo Ann Tischler; Harold Roberts; David Turk; N. Tanner Holliday; Garrin Palmer
Subject: Transmittal of CSV Files White Mesa Mill 2012 Q1 Nitrate Monitoring
Attachments: C12010435_R1.csv

Dear Mr. Lundberg,

Attached to this e-mail is an electronic copy of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the first quarter of 2012, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel
Denison Mines (USA) Corp.
Quality Assurance Manager