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November 28, 2012

**Sent VIA OVERNIGHT DELIVERY**

Mr. Rusty Lundberg  
Division of Radiation Control  
Utah Department of Environmental Quality  
195 North 1950 West  
P.O. Box 144850  
Salt Lake City, UT 84114-4820

**Re: Transmittal of 3rd 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 3rd 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'.

**ENERGY FUELS RESOURCES (USA) INC.**  
Jo Ann Tischler  
Director, Compliance

CC: David C. Frydenlund  
Harold R. Roberts  
David E. Turk  
Katherine A. Weinel  
Central Files

# **White Mesa Uranium Mill**

## **Nitrate Monitoring Report**

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

**3rd Quarter  
(July through September)  
2012**

Prepared by:

**Energy Fuels Resources (USA) Inc.  
225 Union Boulevard, Suite 600  
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**November 28, 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, Energy Fuels Resources (USA) Inc. (“EFRI”) 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 EFRI also address elevated chloride concentration in the Nitrate Monitoring Reports. The Consent Agreement (“CA”) was amended in August 2011. Under the amended Consent Agreement, EFRI 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 third quarter of 2012.

### 1.1 Groundwater Discharge Permit Modifications during the Quarter

During the third quarter of 2012, the approved July 14, 2011 GWDP was revised on August 24, 2012. The revision incorporated the EFRI name change from Denison Mines (USA) Corp. No changes were issued to the groundwater monitoring program described herein.

## 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 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 3
TWN-2	TWN-9	TWN-16	
TWN-3	TWN-10	TWN-17	
TWN-4	TWN-11	TWN-18	
TWN-5	TWN-12	TWN-19	

TWN-6	TWN-13	Piezometer 1
TWN-7	TWN-14	Piezometer 2

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, and Piezometers 1, 2, and 3. Analytical data for all of the nitrate wells, and the piezometers, 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 found in Revision 7.2 of 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 and August 24, 2012):

- 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, Revision 7.2, dated June 6, 2012 provides a detailed presentation of procedures utilized for groundwater sampling activities under the GWDP (July 14, 2011 and August 24, 2012).

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, Sampling 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 Attachment 2-2 of the QAP. Rinsate blanks are collected at a frequency of one rinsate per 20 field samples.

Purging is completed to remove stagnant water from the casing and to assure that representative samples of formation water are collected for analysis. There are three purging strategies specified in Revision 7.2 of the QAP that are used to remove stagnant water from the casing during groundwater sampling at the Mill. The three strategies are as follows:

1. Purging three well casing volumes with a single measurement of field parameters
2. Purging two casing volumes with stable field parameters (within 10% RPD)
3. Purging a well to dryness and stability of a limited list of field parameters after recovery

Mill personnel proceed to the first well which is the well with the lowest concentration (i.e. non-detect) of nitrate based on the previous quarter's sampling results. Well depth measurements are taken and the one casing volume is calculated. The purging strategy that will be used for the well is determined at this time based on the depth to water measurement and the previous production of the well. The Grundfos pump (a 6 to 10 gallon per minute [gpm] pump) is then lowered to the appropriate depth in the well and purging is started. 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 using a disposable bailer and as described in Attachment 2-3 of the QAP. Sample collection follows the procedures described in Attachment 2-4 of the QAP, Revision 7.2 dated June 6, 2012.

After the samples have been collected for a particular well, the samples are placed into a 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.

Decontamination of non-dedicated equipment, using the reagents in Attachment 2-2 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.

#### Piezometers

Samples are collected from Piezometers 1, 2 and 3, if possible. Samples are collected from piezometers using a disposable bailer after one set of field measurements have been collected. 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, and piezometers identified in Section 2.1.1 above, and Table 1.

### **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 EFRI'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 Director of the Division of Radiation Control (the "Director") on May 7, 2012. The CAP describes future activities associated with the nitrate in groundwater. The CAP is currently undergoing public review and comment prior to final approval by the Director. 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.

Two rinsate blank samples were collected as indicated on Table 1. Rinsate samples were labeled with the name of the subsequently purged well with a terminal letter “R” added (e.g. TWN-7R). 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 and August 24, 2012) 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 the review of the field data sheets, all wells conformed to the QAP purging and field measurement requirements. A summary of the purging techniques employed and field measurements taken is described below:

Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)

Wells TWN-01, TWN-04, TWN-05, TWN-06, TWN-08, TWN-11, TWN-12, TWN-13, TWN-16, TWN-18, and TWN-19 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, and redox potential were measured during purging. All field parameters for this requirement were stable within 10% RPD.

Purging a Well to Dryness and Stability of a Limited List of Field Parameters

Wells TWN-02, TWN-03, TWN-07, TWN-09, TWN-10, TWN-14, TWN-15, and TWN-17 were purged to dryness before two casing volumes were evacuated. After well recovery, one set of measurements for the field parameters of pH, specific conductivity, and water temperature only were taken, the samples were collected, and another set of measurements for pH, specific conductivity, and water temperature were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP, Revision 7.2. It is important to note that redox potential and turbidity were measured as well during purging and sampling. These parameters were not within 10% RPD; however, these parameters are not required to be measured or to be within 10% RPD per the approved QAP, Revision 7.2. Data from measurement of these parameters has been provided for information purposes only.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water 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, Revision 7.2 requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least 2 consecutive measurements. The QAP Attachment 2-3 states that turbidity should be less than 5 NTU prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP Attachment 2-3 does not require that turbidity measurements be less than 5 NTU prior to sampling. As such the noted observations regarding turbidity measurements greater than 5 NTU below are included for information purposes only.

- Eleven well measurements exceeded the QAP's 5 NTU turbidity goal as noted in

Tab H. All required turbidity RPD's met the QAP Requirement to stabilize within 10%.

EFRI'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, EFRI has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. DRC responded to the redevelopment report via letter on November 15, 2012. Per the DRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

### **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 ten samples 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 comparison of the rinsate blank 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 all of the rinsate blank analytes met this criterion.

### **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, EFRI'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 a Matrix Spike/Matrix Spike Duplicate ("MS/MSD") 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 EFRI 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 except as indicated in Tab H. One MS/MSD recovery was above the laboratory established acceptance limits,

indicating a high bias to the individual sample results. A high bias means that reported results may be higher than the actual results. The recoveries do not affect the quality or usability of the data because the recoveries outside of the acceptance limits are indicative of matrix interference. 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 (third) quarter of 2012 to the water table contour maps for the previous quarter (second quarter of 2012) 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 persistently low water level at adjacent well TW4-14.

Reported increases in water level of approximately 3 feet occurred in well MW-20 and of approximately 6 feet occurred in well TW4-12, and decreases of approximately 6 feet occurred in PIEZ-2, and of approximately 3 feet occurred in TWN-2. The water level

change at PIEZ-2 is consistent with the cessation of water delivery to the northern wildlife ponds. The water level changes at other non-pumping wells were less than 3 feet. A water level decrease (increase in drawdown) of nearly 7 feet occurred in pumping well MW-26.

Water level fluctuations at pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken. Water levels reported at all pumping wells other than MW-26 this quarter were within 2 feet of their reported water levels last quarter.

#### **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 twelve 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. 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.

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 changed very little (current concentration within one standard deviation of the average of the previous eleven quarters and within laboratory variation). Nitrate in MW-30 has increased from near 14 mg/L in 2005 to near 17 in 2012, while chloride has remained essentially flat. Nitrate in MW-31 has declined from near 25 mg/L in 2005 to near 21 mg/L in 2012, while chloride has increased from near 140 mg/L in 2005 to near 155 mg/L in 2012 (an increase of approximately 10%). Thus, the nitrate/chloride 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). An exception is the most recent nitrate concentration reported from TWN-15 which showed a 31% increase from last quarter, going from 1.6 mg/L to 2.1 mg/L. Chloride concentrations are within 25% of last quarter or have declined.

Note that samples from chloroform monitoring well TW4-27 and TW4-12 have 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, TW4-3, TW4-9, TW4-10, TW4-23, MW-32 and TW4-16. Thus, nitrate in TW4-27 and TW4-12 appear to be isolated from the plume at the Mill site, in the same way that the relatively small nitrate plumes at TWN-9 and TWN-17 are isolated from the plume at the Mill site.

## **5.0 CORRECTIVE ACTION REPORT**

There are no corrective actions resulting from third quarter 2012 nitrate sampling event.

### **5.1 Assessment of Previous Quarter's Corrective Actions**

Chloride was present in a rinsate blank and DIFB during the second quarter 2012. To address previous nitrate contamination in the nitrate and chloroform sampling programs, an additional rinse with 55-gallons of DI water has been added to the decontamination process. The nitrate contamination has been eliminated from rinsate blanks, however, the addition of 55-gallons of DI water has resulted in chloride contamination in rinsates and DIFBs.

The new rinsate requirements under QAP, Revision 7.2, lower the frequency which field personnel collect rinsate samples and allows the DI system to recover. The lower rinsate frequency resulted in no rinsate or DIFB contamination during the third quarter of 2012. However, low level contamination is still possible until the DI system upgrades are complete. EFRI is currently working to upgrade the DI system. 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.

Verification that rinsate and DIFB 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 twelve 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. 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.

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 changed very little (current concentration within one standard deviation of the average of the previous eleven quarters and within laboratory variation). Nitrate in MW-30 has increased from near 14 mg/L in 2005 to near 17 in 2012, while chloride has remained essentially flat. Nitrate in MW-31 has declined from near 25 mg/L in 2005 to near 21 mg/L in 2012, while chloride has increased from near 140 mg/L in 2005 to near 155 mg/L in 2012 (an increase of approximately 10%). Thus, the nitrate/chloride 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**

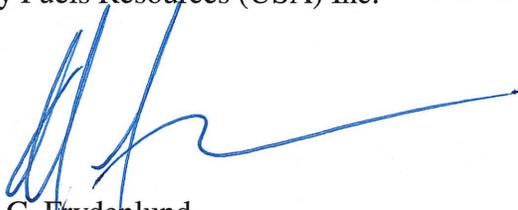
EFRI has provided to the Co-Executive Secretary an electronic copy of all laboratory results for groundwater quality monitoring conducted under the nitrate contaminant investigation during the Quarter, in Comma Separated Values ("CSV") format. A copy of the transmittal e-mail is included under Tab L.

## 8.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on November 28, 2012

Energy Fuels Resources (USA) Inc.

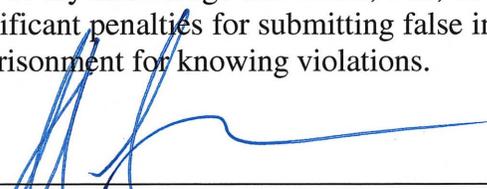
By:



David C. Frydenlund  
Senior Vice President, Regulatory Affairs and General 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  
Senior Vice President, Regulatory Affairs and General Counsel  
Energy Fuels Resources (USA) Inc.

## Tables

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**Table 1**  
**Summary of Well Sampling and Constituents for the Period**

<b>Well</b>	<b>Sample Collection Date</b>	<b>Date of Lab Report</b>
Piezometer 01	7/27/2012	8/13/2012
Piezometer 02	7/27/2012	8/13/2012
Piezometer 03	7/27/2012	8/13/2012
TWN-01	7/24/2012	8/13/2012
TWN-02	7/31/2012	8/13/2012
TWN-03	7/31/2012	8/13/2012
TWN-04	7/25/2012	8/13/2012
TWN-05	7/24/2012	8/13/2012
TWN-06	7/25/2012	8/13/2012
TWN-07	7/26/2012	8/13/2012
TWN-08	7/24/2012	8/13/2012
TWN-09	7/31/2012	8/13/2012
TWN-09R	7/30/2012	8/13/2012
TWN-10	7/25/2012	8/13/2012
TWN-11	7/25/2012	8/13/2012
TWN-12	7/25/2012	8/13/2012
TWN-13	7/24/2012	8/13/2012
TWN-13R	7/24/2012	8/13/2012
TWN-14	7/27/2012	8/13/2012
TWN-15	7/26/2012	8/13/2012
TWN-16	7/25/2012	8/13/2012
TWN-17	7/27/2012	8/13/2012
TWN-18	7/26/2012	8/13/2012
TWN-19	7/26/2012	8/13/2012
TWN-60	7/31/2012	8/13/2012
TWN-65	7/25/2012	8/13/2012
TWN-70	7/27/2012	8/13/2012

Note: All wells were sampled for Nitrate and Chloride

TWN-60 is a DI Field Blank

TWN-65 is a duplicate of TWN-04, and TWN-70 is a duplicate of TWN-14.

**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	2nd Q 2012	3rd Q 2012	% Difference 2nd Q 2012 and 3rd Q 2012
Piez 1	NA	NA	7.2	6.8	6.5	7	6.8	7	6.6	7.1	6.6	7.2	9
Piez 2	NA	NA	0.6	0.6	0.2	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0
Piez 3	NA	1.7	1.6	1.8	1.8	1.8	1.7	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	0.6	0.6	0
TWN 2	20.8	62.1	69	69	48	43	40	33	33	31	48.0	54.0	13
TWN 3	29	25.3	26	27	24	24	26	25	25	25	24.0	27.0	13
TWN 4	0.4	0.9	1	0.9	1.0	0.9	0.9	1.1	0.9	0.9	1.1	1.4	27
TWN 5	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0
TWN 6	1.4	1.5	1.4	1.4	1.2	1.1	1.5	1.1	1.4	1.2	1.1	1.4	27
TWN 7	0.1	0.8	1.2	1.6	1.0	1.3	1.7	0.7	2.2	2.3	1.2	0.9	-25
TWN 8	0.1	<0.1	<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	10.6	12.3	16
TWN 10	1.4	1.5	1	0.2	1.3	0.3	1.2	0.1	0.2	0.8	0.9	0.6	-33
TWN 11	1.3	1.4	1.3	1.4	1.4	1.4	1.4	0.1	1.6	1.6	1.6	1.8	13
TWN 12	0.5	0.7	0.8	0.7	0.7	4.2	1	0.6	1.2	0.9	1.2	1.4	17
TWN 13	0.5	0.1	0.1	0.2	0.4	1.6	<0.1	<0.1	<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	3.4	3.7	9
TWN 15	1.1	0.7	1	1	1.2	1.4	1.6	1.6	1.3	1.5	1.6	2.1	31
TWN 16	1	1.2	1.3	2.6	2	4.6	1.6	2.4	2.6	2.8	2.0	2.4	20
TWN 17	6.7	10.4	11	8.9	8	8.6	9	8.5	8.1	8.7	9.1	9.5	4
TWN 18	1.3	1.6	1.8	1.8	1.6	1.4	1.8	1.8	1.9	1.9	2.1	2.3	10
TWN 19	7.4	7.2	6.2	7.2	7	7	6.9	7.1	6.5	7	6.8	7.5	10

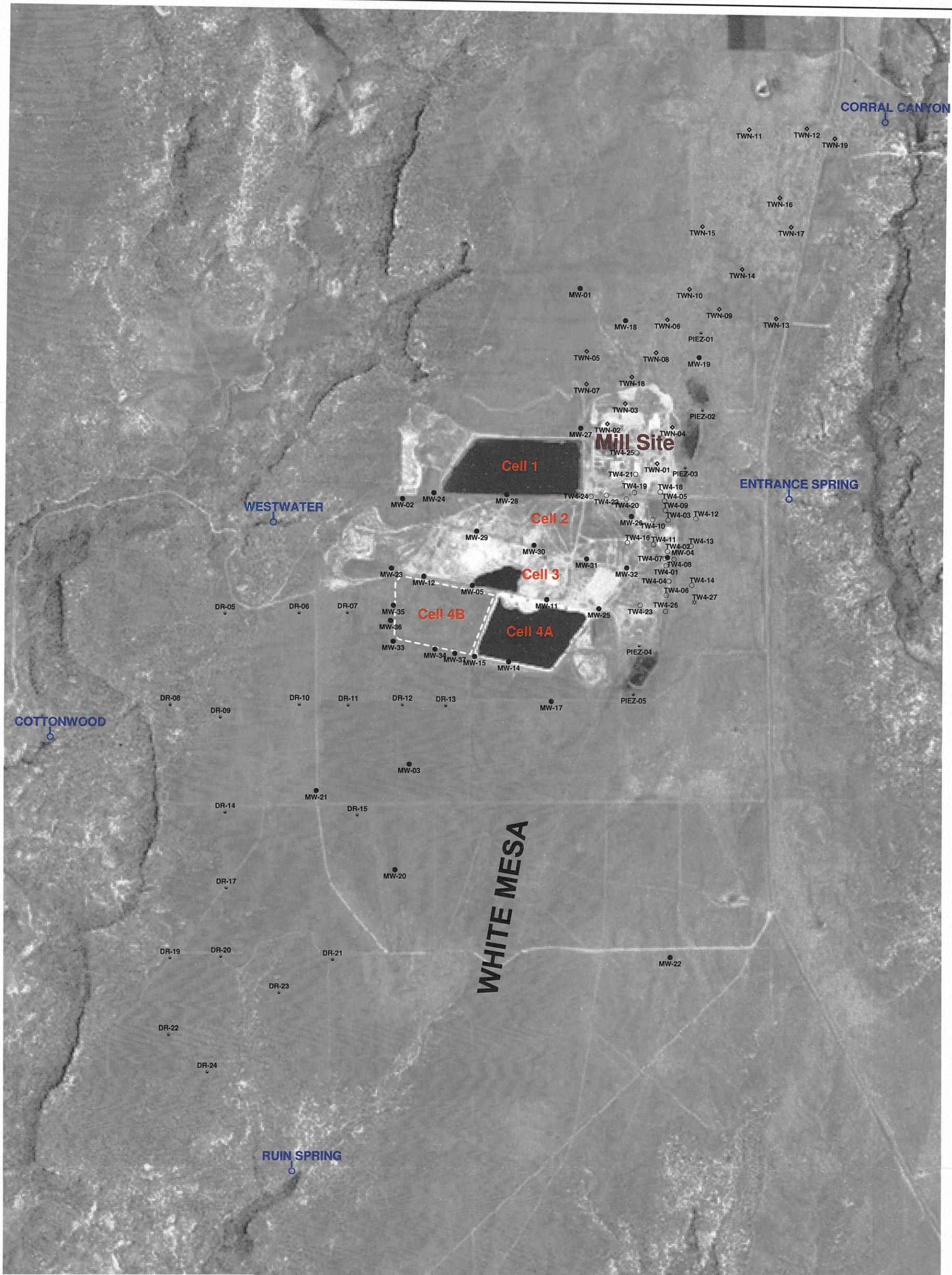
Red value indicates nondetect

**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	2nd Q 2012	3rd Q 2012	% Difference 2nd Q 2012 and 3rd Q 2012
Piez 1	NA	NA	52	52	60	60	58	53	55	78	58	56	-3
Piez 2	NA	NA	8	8	6	9	8	9	8	9	8	9	13
Piez 3	NA	116	36	35	25	40	35	61	12	20	53	21	-60
TWN 1	18	17	20	19	14	17	19	14	10	15	17	17	0
TWN 2	55	85	97	104	93	93	85	74	76	86	103	93	-10
TWN 3	106	111	118	106	117	138	128	134	129	143	152	158	4
TWN 4	11	22	22	19	21	21	21	35	20	20	24	25	4
TWN 5	48	43	44	43	45	47	44	44	45	45	39	48	23
TWN 6	21	19	22	73	21	18	22	17	21	20	22	22	0
TWN 7	7	6	6	7	4	6	6	5	6	5	6	6	0
TWN 8	12	11	11	11	9	13	10	18	10	11	15	11	-27
TWN 9	205	183	175	210	172	217	192	208	134	202	209	215	3
TWN 10	26	54	30	21	28	40	28	28	33	44	28	33	18
TWN 11	74	73	72	76	72	84	76	76	76	69	71	77	8
TWN 12	109	113	106	112	103	87	109	102	87	104	106	102	-4
TWN 13	83	47	49	53	57	103	49	49	48	46	53	48	-9
TWN 14	32	24	30	26	28	24	30	25	27	26	27	27	0
TWN 15	78	43	39	36	38	43	49	47	38	38	46	50	9
TWN 16	39	35	35	35	30	34	39	31	34	33	50	33	-34
TWN 17	152	78	87	66	65	90	81	74	71	79	80	85	6
TWN 18	57	42	63	64	59	61	67	65	60	64	64	67	5
TWN 19	125	118	113	113	107	114	120	113	108	114	117	117	0

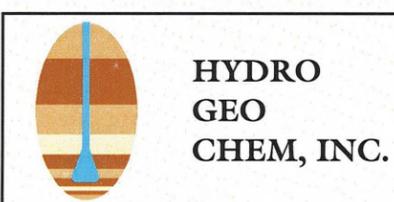
Tab A

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



**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 3rd Quarter 2012

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

Nitrate Samples					
Name	Nitrate Mg/L Previous	Date/Purge	sample	Depth	Total Depth
		<b>0750</b>			
TWN-13	ND	7/24/12	0750	45.95	120
TWN-8	ND	7/24/12	0830	62.00	145.5
TWN-5	0.3	7/24/12	0916	69.55	150
TWN-1	0.6	7/24/12	1014	52.45	112.5
TWN-10	0.9	7/25/12	0750	81.15	105
TWN-4	1.1	7/25/12	0652	42.40	125.7
TWN-6	1.1	7/25/12	0738	74.95	130
TWN-12	1.2	7/25/12	0842	28.10	110
TWN-7	1.2	7/26/12	0647	96.45	105
TWN-15	1.6	7/26/12	0702	92.00	155
TWN-11	1.6	7/25/12	1243	69.50	142
TWN-16	2	7/25/12	1342	47.70	100
TWN-18	2.1	7/26/12	1010	57.85	145
TWN-14	3.4	7/27/12	0700	62.91	135
TWN-19	6.8	7/26/12	1403	52.45	110
TWN-17	9.1	7/27/12	0712	33.95	110
TWN-9	10.6	7/31/12	0707	62.85	97
TWN-3	24.0	7/31/12	0720	34.26	96
TWN-2	48.0	7/31/12	0731	24.76	96
Piez 1	6.6	7/27/12	0805	61.50	
Piez 2	0.2	7/27/12	0731	25.56	
Piez 3	1.7	7/27/12	0750	40.58	
wildlife	NA				

Rinsate Samples		
Name	Date	Sample

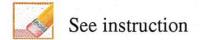
TWN-13R	7/24/12	0720
TWN-8R		
TWN-5R		
TWN-1R		
TWN-10R		
TWN-4R		
TWN-6R		
TWN-12R		
TWN-7R		
TWN-15R		
TWN-11R		
TWN-16R		
TWN-18R		
TWN-14R		
TWN-19R		
TWN-17R		
TWN-9R	7/30/12	0925
TWN-3R		
TWN-2R		

Samplers: \_\_\_\_\_

TWN-65 7/25/12 0652  
 70 7/27/12 0706  
 60 7/31/12 0747



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-01-07272012

Date and Time for Purging 7/27/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) N/A

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 61.50

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

Conductance (avg) 2273

pH of Water (avg) 8.80

Well Water Temp. (avg) 17.01

Redox Potential (Eh) 171

Turbidity 3.9

Weather Cond. Partly Cloudy

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

Time	<u>0805</u>	Gal. Purged	<u>0</u>
Conductance	<u>2273</u>	pH	<u>8.80</u>
Temp. °C	<u>17.01</u>		
Redox Potential Eh (mV)	<u>171</u>		
Turbidity (NTU)	<u>3.9</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 Labs

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:

Final Depth

Sample Time

 See instruction

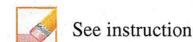
Comment

Arrived on site at 0800. Tanner and Garrin on site to collect samples  
 Samples bailed and collected at 0805. Water was clear. Left site at 0809

**Piez-01 07-27-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-02-07272012

Date and Time for Purging 7/27/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) N/A

Purging Method Used:  2 casings  3 casings

Sampling Event 999 Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWU-17

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 25.56

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

Conductance (avg) 242

pH of Water (avg) 7.75

Well Water Temp. (avg) 16.21

Redox Potential (Eh) 263

Turbidity 3.4

Weather Cond. Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<u>0730</u>	Gal. Purged	<u>0</u>
Conductance	<u>242</u>	pH	<u>7.75</u>
Temp. °C	<u>16.21</u>		
Redox Potential Eh (mV)	<u>263</u>		
Turbidity (NTU)	<u>3.4</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 Labs

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:

Final Depth

Sample Time



See instruction

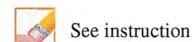
Comment

*Arrived on site at 0725. Tanner and Garrin present to collect samples. Samples bailed at 0731. Water was clear. Left site at 0738.*

**Piez-02 07-27-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-03\_07272012

Date and Time for Purging 7/27/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) N/A

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event Piez-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 40.58

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

Conductance (avg) 3132

pH of Water (avg) 11.93

Well Water Temp. (avg) 16.01

Redox Potential (Eh) 204

Turbidity 0.7

Weather Cond. Partly Cloudy

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

Time	<u>0750</u>	Gal. Purged	<u>0</u>
Conductance	<u>3132</u>	pH	<u>11.93</u>
Temp. °C	<u>16.01</u>		
Redox Potential Eh (mV)	<u>204</u>		
Turbidity (NTU)	<u>0.7</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 Labs

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:

Final Depth

Sample Time

 See instruction

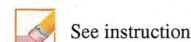
Comment

Arrived on site at 0743. Tanner and Garrin present to collect samples. Samples collected at 0750. Water was clear. Left site at 0756

**Piez.03 07-27-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID TWN-01-07242012

Date and Time for Purging 07/24/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 112.50

Depth to Water Before Purging 52.45 Casing Volume (V) 4" Well: 39.21 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 802 pH of Water (avg) 7.17

Well Water Temp. (avg) 15.43 Redox Potential (Eh) 279 Turbidity 36

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1011</u>	Gal. Purged	<u>55</u>
Conductance	<u>802</u>	pH	<u>7.17</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>285</u>		
Turbidity (NTU)	<u>34.9</u>		

Time	<u>1012</u>	Gal. Purged	<u>66</u>
Conductance	<u>802</u>	pH	<u>7.17</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>282</u>		
Turbidity (NTU)	<u>36.4</u>		

Time	<u>1013</u>	Gal. Purged	<u>77</u>
Conductance	<u>803</u>	pH	<u>7.17</u>
Temp. °C	<u>15.42</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>37.4</u>		

Time	<u>1014</u>	Gal. Purged	<u>88</u>
Conductance	<u>803</u>	pH	<u>7.18</u>
Temp. °C	<u>15.41</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>37.0</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 Labs

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:

Final Depth

Sample Time



See instruction

Comment

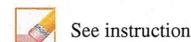
Arrived on site at 1002 Tanner and Garrin present for purge and sampling event. Purge began at 1006. Purged well for a total of 8 minutes. Water was a little dirty. Purge ended and samples collected at 1014. Left site at 1017.

TWN-01 07-24-2012

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

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

Field Sample ID TWN-02\_07312012

Date and Time for Purging 7/30/2012 and Sampling (if different) 7/31/2012

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 96.00

Depth to Water Before Purging 24.75 Casing Volume (V) 4" Well: 46.52 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2903 pH of Water (avg) 6.38

Well Water Temp. (avg) 14.69 Redox Potential (Eh) 235 Turbidity 45.2

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1159</u>	Gal. Purged	<u>60.5</u>
Conductance	<u>2903</u>	pH	<u>6.38</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>235</u>		
Turbidity (NTU)	<u>45.2</u>		

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

Time	<u>0731</u>	Gal. Purged	<u>0</u>
Conductance	<u>2841</u>	pH	<u>6.71</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>287</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>0735</u>	Gal. Purged	<u>0</u>
Conductance	<u>2817</u>	pH	<u>6.74</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>276</u>		
Turbidity (NTU)	<u>1.0</u>		

Volume of Water Purged Before  gallon(s) After

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 Labs

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 Radiologies	<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:

Final Depth

Sample Time

 See instruction

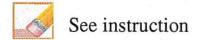
Comment

Arrived on site at 1150. Tanner and Garrin present for purge. Purge began at 1154 Purged well for 5 minutes and 30 seconds. Purged well dry! Water was mostly clear. Purge ended at 1159. Left site at 1204.  
Arrived on site at 0725. Tanner and Garrin present to collect samples. Depth to water was 24.76. Samples bailed at 0731. Left site at 0733

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-03\_07312012

Date and Time for Purging 7/30/2012

and Sampling (if different) 7/31/2012

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-09

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging 34.00

Casing Volume (V) 4" Well: 40.48 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2477

pH of Water (avg) 7.00

Well Water Temp. (avg) 14.95

Redox Potential (Eh) 225

Turbidity 85

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 23°

Time	<u>1034</u>	Gal. Purged	<u>55</u>
Conductance	<u>2477</u>	pH	<u>7.00</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>225</u>		
Turbidity (NTU)	<u>85</u>		

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

Time	<u>0720</u>	Gal. Purged	<u>0</u>
Conductance	<u>2508</u>	pH	<u>7.07</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>307</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0722</u>	Gal. Purged	
Conductance	<u>2474</u>	pH	<u>7.08</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>0</u>		

Before  
Volume of Water Purged  gallon(s) After

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 Labs

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"/>

~~Ar~~  
Chloride

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

Final Depth

Sample Time

 See instruction

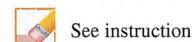
Comment

Arrived on site at 1025. Tanner and Garrin present for purge. Purge began at 1029 Purged well for a total of 5 minutes. Purged well dry! water was a little dirty with a little discolor. Purge ended at 1034. Left site at 1038  
Arrived on site at 0714. Tanner and Garrin present to collect samples. Depth to water was 34.26. Samples bailed at 0720. Left site at 0722

**TWN-03 07-30-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID TWN-04-07252012

Date and Time for Purging 7/25/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging 42.40

Casing Volume (V) 4" Well: 54.39 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1025

pH of Water (avg) 7.13

Well Water Temp. (avg) 14.69

Redox Potential (Eh) 403

Turbidity 53

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>0649</u>	Gal. Purged	<u>88</u>
Conductance	<u>1026</u>	pH	<u>7.13</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>411</u>		
Turbidity (NTU)	<u>51</u>		

Time	<u>0650</u>	Gal. Purged	<u>99</u>
Conductance	<u>1026</u>	pH	<u>7.13</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>408</u>		
Turbidity (NTU)	<u>53</u>		

Time	<u>0651</u>	Gal. Purged	<u>110</u>
Conductance	<u>1026</u>	pH	<u>7.13</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>399</u>		
Turbidity (NTU)	<u>55</u>		

Time	<u>0652</u>	Gal. Purged	<u>121</u>
Conductance	<u>1025</u>	pH	<u>7.13</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>397</u>		
Turbidity (NTU)	<u>56</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 Labs

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:

Final Depth

Sample Time



See instruction

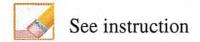
Comment

Arrived on site at 0636. Tanner and Garrin present for purge and sampling event. Purge began at 0641. Purged well for a total of 11 minutes. Water was mostly clear. Purge ended and samples collected at 0652. Left site at 0656

**TWN-04 07-25-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-05 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-05-07242012

Date and Time for Purging 7/24/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/cm Well Depth(0.01ft): 150.00

Depth to Water Before Purging 69.55 Casing Volume (V) 4" Well: 52.53 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 3049 pH of Water (avg) 6.69

Well Water Temp. (avg) 15.01 Redox Potential (Eh) 316 Turbidity 8.6

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 24°

Time	<u>0913</u>	Gal. Purged	<u>77</u>
Conductance	<u>3050</u>	pH	<u>6.68</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>8.9</u>		

Time	<u>0914</u>	Gal. Purged	<u>88</u>
Conductance	<u>3050</u>	pH	<u>6.70</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>8.8</u>		

Time	<u>0915</u>	Gal. Purged	<u>99</u>
Conductance	<u>3050</u>	pH	<u>6.70</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>313</u>		
Turbidity (NTU)	<u>8.7</u>		

Time	<u>0916</u>	Gal. Purged	<u>110</u>
Conductance	<u>3047</u>	pH	<u>6.71</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>307</u>		
Turbidity (NTU)	<u>8.6</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 Labs

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:

Final Depth

Sample Time

 See instruction

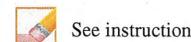
Comment

Arrived on site at 0902 Tanner and Garrin present for purge and sampling event. Purge began at 0906. Purged well for a total of 10 minutes. water was clear. Purge ended and samples collected at 0916. Left site at 0919

**TWN-05 07-24-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-06

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-06-07252012

Date and Time for Purging 7/25/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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 μMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 74.95

Casing Volume (V) 4" Well: 35.94 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 1520

pH of Water (avg) 6.88

Well Water Temp. (avg) 14.88

Redox Potential (Eh) 388

Turbidity 13.42

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<u>0735</u>	Gal. Purged	<u>44</u>
Conductance	<u>1525</u>	pH	<u>6.90</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>395</u>		
Turbidity (NTU)	<u>13.9</u>		

Time	<u>0736</u>	Gal. Purged	<u>55</u>
Conductance	<u>1519</u>	pH	<u>6.88</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>389</u>		
Turbidity (NTU)	<u>13.4</u>		

Time	<u>0737</u>	Gal. Purged	<u>66</u>
Conductance	<u>1520</u>	pH	<u>6.89</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>386</u>		
Turbidity (NTU)	<u>13.3</u>		

Time	<u>0738</u>	Gal. Purged	<u>77</u>
Conductance	<u>1517</u>	pH	<u>6.88</u>
Temp. °C	<u>382</u>	<u>14.87</u>	
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>13.1</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 Labs

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:

Final Depth

Sample Time



See instruction

Comment

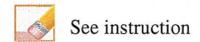
Arrived on site at 0728. Tanner and Garrin present for purge and sampling event. Purge began at 0731. Purged well for a total of 7 minutes. water was clear. Purge ended and samples collected at 0738. Left site at 0740

TWN-06 07-25-2012

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID TWN-07\_07262012

Date and Time for Purging 7/25/2012

and Sampling (if different) 7/26/2012

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging 88.00

Casing Volume (V) 4" Well: 11.10 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1210

pH of Water (avg) 6.62

Well Water Temp. (avg) 16.56

Redox Potential (Eh) 495

Turbidity 5.9

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 23°

Time	<u>0924</u>	Gal. Purged	<u>14.5</u>
Conductance	<u>1210</u>	pH	<u>6.62</u>
Temp. °C	<u>16.56</u>		
Redox Potential Eh (mV)	<u>495</u>		
Turbidity (NTU)	<u>5.9</u>		

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

Time	<u>0647</u>	Gal. Purged	<u>0</u>
Conductance	<u>1229</u>	pH	<u>7.44</u>
Temp. °C	<u>15.80</u>		
Redox Potential Eh (mV)	<u>352</u>		
Turbidity (NTU)	<u>16.0</u>		

Time	<u>0648</u>	Gal. Purged	<u>0</u>
Conductance	<u>1261</u>	pH	<u>7.42</u>
Temp. °C	<u>15.76</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>15.5</u>		

Volume of Water Purged Before 14.5 gallon(s) After

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 = 11

Time to evacuate two casing volumes (2V)  
 T = 2V/Q = 2.01

Number of casing volumes evacuated (if other than two) 1.30

If well evacuated to dryness, number of gallons evacuated 14.5

Name of Certified Analytical Laboratory if Other Than Energy Labs 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"/>

Chloride

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

Final Depth 103.83

Sample Time 0647

 See instruction

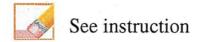
Comment

Arrived on site at 0918. Tanner and Garrin present to collect purge well. Purge began at 0923. Purged well for a total of 1 minute and 15 seconds. Purged well dry! water was clear. Purge ended at 0924. Left site at 0926  
 Arrived on site at 0642. Tanner and Garrin present to collect samples, Depth to water was 96.45 samples bailed at 0647. Left site at 0649

TWN-07 07-25-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID: TWN-08-07242012

Date and Time for Purging: 7/24/2012 and Sampling (if different): N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 145.50

Depth to Water Before Purging: 62.00 Casing Volume (V) 4" Well: 54.52 (.653h)  
 3" Well: 6 (.367h)

Conductance (avg): 2372 pH of Water (avg): 7.10

Well Water Temp. (avg): 14.99 Redox Potential (Eh): 93 Turbidity: 4.6

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 22°

Time	<u>0827</u>	Gal. Purged	<u>77</u>
Conductance	<u>2371</u>	pH	<u>7.16</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>92</u>		
Turbidity (NTU)	<u>4.5</u>		

Time	<u>0828</u>	Gal. Purged	<u>88</u>
Conductance	<u>2378</u>	pH	<u>7.11</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>93</u>		
Turbidity (NTU)	<u>4.7</u>		

Time	<u>0829</u>	Gal. Purged	<u>99</u>
Conductance	<u>2370</u>	pH	<u>7.10</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>94</u>		
Turbidity (NTU)	<u>4.7</u>		

Time	<u>0830</u>	Gal. Purged	<u>110</u>
Conductance	<u>2370</u>	pH	<u>7.05</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>94</u>		
Turbidity (NTU)	<u>4.8</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 Labs

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:

Final Depth

Sample Time

 See instruction

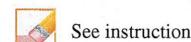
Comment

Arrived on site at 0815 Tanner and Garrin present for purge and sampling event. Purge began at 0820. Purged well for a total of 10 minutes, water was clear. Purge ended and samples collected at 0830. Left site at 0833

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**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID TWN-09\_07312012

Date and Time for Purging 7/30/2012 and Sampling (if different) 7/31/2012

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

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-09R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging 62.83 Casing Volume (V) 4" Well: 22.31 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 2586 pH of Water (avg) 6.64

Well Water Temp. (avg) 15.61 Redox Potential (Eh) 351 Turbidity 10.9

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 23°

Time	<u>0945</u>	Gal. Purged	<u>33</u>
Conductance	<u>2586</u>	pH	<u>6.64</u>
Temp. °C	<u>15.61</u>		
Redox Potential Eh (mV)	<u>351</u>		
Turbidity (NTU)	<u>10.9</u>		

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

Time	<u>0707</u>	Gal. Purged	<u>0</u>
Conductance	<u>2576</u>	pH	<u>7.08</u>
Temp. °C	<u>15.96</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>1.8</u>		

Time	<u>0709</u>	Gal. Purged	<u>0</u>
Conductance	<u>2560</u>	pH	<u>7.00</u>
Temp. °C	<u>16.04</u>		
Redox Potential Eh (mV)	<u>320</u>		
Turbidity (NTU)	<u>1.7</u>		

Volume of Water Purged Before 33 gallon(s) After

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 = 11

Time to evacuate two casing volumes (2V)  
 T = 2V/Q = 4.05

Number of casing volumes evacuated (if other than two) 1.47

If well evacuated to dryness, number of gallons evacuated 33

Name of Certified Analytical Laboratory if Other Than Energy Labs 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"/>

Chloride

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

Final Depth 95.49

Sample Time 0707

 See instruction

Comment

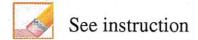
Arrived on site at 0938. Tanner and Garrin present for purge. Purge began at 0942  
 Purged well for a total of 3 minutes. Purged well dry. Water was clear.  
 Purge ended at 0945. Left site at 0949

Arrived on site at 0700. Tanner and Garrin present to collect samples. Depth to water was 62.85.  
 Samples bailed at 0707. Left site at 0709

TWN-09 07-30-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID TWN-09R\_07302012

Date and Time for Purging 7/30/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ 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) 5.3 pH of Water (avg) 7.03

Well Water Temp. (avg) 24.63 Redox Potential (Eh) 303 Turbidity 0

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 21°

Time	<u>0923</u>	Gal. Purged	<u>130</u>
Conductance	<u>5.3</u>	pH	<u>7.03</u>
Temp. °C	<u>24.63</u>		
Redox Potential Eh (mV)	<u>303</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 Labs

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:

Final Depth

Sample Time

 See instruction

Comment

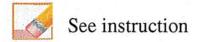
Arrived on site at 0905. Tanner and Garrin present for Rinsate.  
 Rinsate began at 0910. Pumped 50 Gallons of soap water and 100 Gallons of DI water. Rinsate ended and samples collected at 0925

Rinsate

**TWN-09R 07-30-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

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

Field Sample ID TWN-10\_07252012

Date and Time for Purging 7/24/2012 and Sampling (if different) 7/25/2012

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 105.00

Depth to Water Before Purging 80.85 Casing Volume (V) 4" Well: 15.76 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 3556 pH of Water (avg) 4.14

Well Water Temp. (avg) 15.95 Redox Potential (Eh) 454 Turbidity 30

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1239</u>	Gal. Purged	<u>27.50</u>
Conductance	<u>3556</u>	pH	<u>4.14</u>
Temp. °C	<u>15.95</u>		
Redox Potential Eh (mV)	<u>454</u>		
Turbidity (NTU)	<u>30</u>		

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

Time	<u>0749</u>	Gal. Purged	<u>0</u>
Conductance	<u>3657</u>	pH	<u>3.44</u>
Temp. °C	<u>16.10</u>		
Redox Potential Eh (mV)	<u>604</u>		
Turbidity (NTU)	<u>2.6</u>		

Time	<u>0752</u>	Gal. Purged	<u>0</u>
Conductance	<u>3589</u>	pH	<u>3.51</u>
Temp. °C	<u>16.11</u>		
Redox Potential Eh (mV)	<u>610</u>		
Turbidity (NTU)	<u>2.5</u>		

Volume of Water Purged Before  gallon(s) After

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 Labs

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:

Final Depth

Sample Time

 See instruction

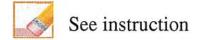
Comment

Arrived on site at 1233. Tanner and Garrin present for purge. Purge began at 1237. Purged well for a total of 2 minutes and 30 seconds. Purged well dry! water was mostly clear. Purge ended at 1240. Left site at 1243.  
 Arrived on site at 0746. Tanner and Garrin present to Bail samples. Depth to water was 81.15. Samples bailed at 0750. Left site at 0752

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

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

Field Sample ID TWN-11\_07252012

Date and Time for Purging 7/25/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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 μMHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging 69.50 Casing Volume (V) 4" Well: 47.34 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2768 pH of Water (avg) 6.59

Well Water Temp. (avg) 15.31 Redox Potential (Eh) 401 Turbidity 6.1

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 26°

Time	<u>1240</u>	Gal. Purged	<u>66</u>
Conductance	<u>2768</u>	pH	<u>6.63</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)	<u>413</u>		
Turbidity (NTU)	<u>6.6</u>		

Time	<u>1241</u>	Gal. Purged	<u>77</u>
Conductance	<u>2769</u>	pH	<u>6.57</u>
Temp. °C	<u>15.33</u>		
Redox Potential Eh (mV)	<u>407</u>		
Turbidity (NTU)	<u>6.3</u>		

Time	<u>1242</u>	Gal. Purged	<u>88</u>
Conductance	<u>2769</u>	pH	<u>6.56</u>
Temp. °C	<u>15.33</u>		
Redox Potential Eh (mV)	<u>397</u>		
Turbidity (NTU)	<u>6.0</u>		

Time	<u>1243</u>	Gal. Purged	<u>99</u>
Conductance	<u>2769</u>	pH	<u>6.60</u>
Temp. °C	<u>15.28</u>		
Redox Potential Eh (mV)	<u>388</u>		
Turbidity (NTU)	<u>5.8</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 Labs

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:

Final Depth

Sample Time

 See instruction

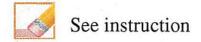
Comment

Arrived on site at 1231. Tanner and Garrin present for purge and sampling event. Purge began at 1234. Purged well for a total of 9 minutes. water was mostly clear. Purge ended and samples collected at 1243. Left site at 1252

TWN-11 07-25-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Ground Nitrate 2012

Location (well name): TWN-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-12-07252012

Date and Time for Purging 7/25/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 28.10

Casing Volume (V) 4" Well: 53.48 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2455

pH of Water (avg) 7.06

Well Water Temp. (avg) 14.90

Redox Potential (Eh) 277

Turbidity 56

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 22°

Time	<u>0839</u>	Gal. Purged	<u>77</u>
Conductance	<u>2468</u>	pH	<u>7.02</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>54.1</u>		

Time	<u>0840</u>	Gal. Purged	<u>88</u>
Conductance	<u>2458</u>	pH	<u>7.06</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>279</u>		
Turbidity (NTU)	<u>55</u>		

Time	<u>0841</u>	Gal. Purged	<u>99</u>
Conductance	<u>2451</u>	pH	<u>7.07</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>58</u>		

Time	<u>0842</u>	Gal. Purged	<u>110</u>
Conductance	<u>2445</u>	pH	<u>7.10</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>270</u>		
Turbidity (NTU)	<u>59</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 Labs

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:

Final Depth

Sample Time

 See instruction

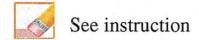
Comment

Arrived on site at 0829. Tanner and Garrin present for purge and sampling event. Purge began at 0832. Purged well for a total of 10 minutes. water was red/orange color then would clear the back to the discolor. Purge ended and samples collected at 0842. Left site at 0845.

**TWN-12 07-25-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): TWN-13

Sampler Name and initials: Tanner Holliday/THT

Field Sample ID TWN-13\_0724/2  
TWN-13\_07242012

Date and Time for Purging 7/24/2012 and Sampling (if different) 7/24/2012 N/A

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

Purging Method Used:  2 casings  3 casings

Sampling Event 999 Prev. Well Sampled in Sampling Event TWN-13R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 45.95

Casing Volume (V) 4" Well: 48.35 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1194

pH of Water (avg) 7.54

Well Water Temp. (avg) 15.30

Redox Potential (Eh) 339

Turbidity 15.5

Weather Cond. Sunny

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

Time	<u>0747</u>	Gal. Purged	<u>66</u>
Conductance	<u>1194</u>	pH	<u>7.53</u>
Temp. °C	<u>15.32</u>		
Redox Potential Eh (mV)	<u>350</u>		
Turbidity (NTU)	<u>15.1</u>		

Time	<u>0748</u>	Gal. Purged	<u>77</u>
Conductance	<u>1194</u>	pH	<u>7.55</u>
Temp. °C	<u>15.31</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>15.4</u>		

Time	<u>0749</u>	Gal. Purged	<u>88</u>
Conductance	<u>1195</u>	pH	<u>7.55</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>336</u>		
Turbidity (NTU)	<u>15.5</u>		

Time	<u>0750</u>	Gal. Purged	<u>99</u>
Conductance	<u>1195</u>	pH	<u>7.55</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>15.7</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 Labs

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:

Final Depth

Sample Time

 See instruction

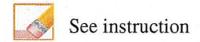
Comment

Arrived on site at 0736. Tanner and Garrin present for purge and sampling event. Purge began at 0741. Purged well for a total of 9 minutes. water was mostly clear. Purge ended and samples collected at 0750. Left site at 0753.

**TWN-13 07-24-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID TWN-13R\_07242012

Date and Time for Purging 7/24/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ 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) 15 pH of Water (avg) 6.35

Well Water Temp. (avg) 23.41 Redox Potential (Eh) 338 Turbidity 0

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<u>0718</u>	Gal. Purged	<u>130</u>
Conductance	<u>1.5</u>	pH	<u>6.35</u>
Temp. °C	<u>23.41</u>		
Redox Potential Eh (mV)	<u>338</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 Labs

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:

Final Depth

Sample Time

 See instruction

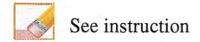
Comment

Arrived on site at 0700. Tanner and Garrin present for Rinsate began at 0705. Pumped 50 Gallons DI/soap water and 100 Gallons of DI water. Rinsate ended and samples collected at 0720. Left site at 0725.

**TWN-13R 07-24-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

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

Field Sample ID TWN-14-07272012

Date and Time for Purging 7/26/2012 and Sampling (if different) 7/27/2012

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 135.00

Depth to Water Before Purging 62.55 Casing Volume (V) 4" Well: 47.30 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1065 pH of Water (avg) 7.52

Well Water Temp. (avg) 15.68 Redox Potential (Eh) 195 Turbidity 43

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1057</u>	Gal. Purged	<u>55</u>
Conductance	<u>1065</u>	pH	<u>7.52</u>
Temp. °C	<u>15.68</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>43.0</u>		

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

Time	<u>0700</u>	Gal. Purged	
Conductance	<u>1216</u>	pH	<u>7.40</u>
Temp. °C	<u>15.86</u>		
Redox Potential Eh (mV)	<u>364</u>		
Turbidity (NTU)	<u>3.9</u>		

Time	<u>0703</u>	Gal. Purged	
Conductance	<u>1221</u>	pH	<u>7.44</u>
Temp. °C	<u>15.84</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>4.0</u>		

Volume of Water Purged <sup>Before</sup>  gallon(s) <sup>After</sup>

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 Labs

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:

Final Depth

Sample Time

 See instruction

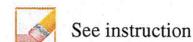
Comment

Arrived on site at 1048. Tanner and Garrin present for purge. Purge began at 1052. Purged well for a total of 5 minutes. Purged well dry. Water had a slight discolor. Purge ended at 1057. Left site at 1101  
 Arrived on site at 0654. Tanner and Garrin present to collect samples. Depth to water was 62.91 Samples bailed at 0700. Left site at 0703

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ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-15

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-15-07262012

Date and Time for Purging 7/25/2012

and Sampling (if different) 7/26/2012

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 155.00

Depth to Water Before Purging 91.95

Casing Volume (V) 4" Well: 41.17 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 1523

pH of Water (avg) 6.62

Well Water Temp. (avg) 15.33

Redox Potential (Eh) 408

Turbidity 12.1

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1150</u>	Gal. Purged	<u>66</u>
Conductance	<u>1523</u>	pH	<u>6.62</u>
Temp. °C	<u>15.33</u>		
Redox Potential Eh (mV)	<u>408</u>		
Turbidity (NTU)	<u>12.1</u>		

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

Time	<u>0702</u>	Gal. Purged	<u>0</u>
Conductance	<u>1915</u>	pH	<u>6.95</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0703</u>	Gal. Purged	<u>0</u>
Conductance	<u>1900</u>	pH	<u>6.86</u>
Temp. °C	<u>14.86</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>0</u>		

Before After  
 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 Labs

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:

Final Depth

Sample Time

 See instruction

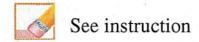
Comment

Arrived on site at 1140. Tanner and Garrin present for purge. Purge began at 1144 Purged well for a total of 6 minutes. Purged well dry! Purge ended at 1150. water was mostly clear. Left site at 1153.  
 Arrived on site at 0656, Tanner and Garrin present to collect samples. Depth to water was 92.06. Samples were bailed at 0702. Left site at 0704

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-16

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-16-07252012

Date and Time for Purging 7/25/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 100.00

Depth to Water Before Purging 47.70

Casing Volume (V) 4" Well: 34.15 (.653h)  
 3" Well: 6 (.367h)

Conductance (avg) 1852

pH of Water (avg) 6.68

Well Water Temp. (avg) 14.91

Redox Potential (Eh) 431

Turbidity 6.68

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 28°

Time	<u>1339</u>	Gal. Purged	<u>44</u>
Conductance	<u>1854</u>	pH	<u>6.67</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>450</u>		
Turbidity (NTU)	<u>9.0</u>		

Time	<u>1340</u>	Gal. Purged	<u>55</u>
Conductance	<u>1854</u>	pH	<u>6.69</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>436</u>		
Turbidity (NTU)	<u>6.9</u>		

Time	<u>1341</u>	Gal. Purged	<u>66</u>
Conductance	<u>1848</u>	pH	<u>6.69</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>426</u>		
Turbidity (NTU)	<u>6.5</u>		

Time	<u>1342</u>	Gal. Purged	<u>77</u>
Conductance	<u>1852</u>	pH	<u>6.69</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>414</u>		
Turbidity (NTU)	<u>6.5</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 Labs

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 Radiologies	<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:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1330 Tanner and Garrin present for purge and sampling event. Purge began at 1335. Purged well for a total of 7 minutes. Water was clear. Purge ended and samples collected at 1342. Left site at 1346

TWN-16 07-25-2012 Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): ~~\_\_\_\_\_~~ TWN-17

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: ~~\_\_\_\_\_~~

TWN-17-07272012

Date and Time for Purging 7/26/2012

and Sampling (if different) 7/27/2012

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly nitrate

Prev. Well Sampled in Sampling Event TWN-14 TWN-19

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 33.95

Casing Volume (V) 4" Well: 49.66 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 1124

pH of Water (avg) 7.19

Well Water Temp. (avg) 15.34

Redox Potential (Eh) 255

Turbidity 156

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 28°

Time	<u>1445</u>	Gal. Purged	<u>66</u>
Conductance	<u>1124</u>	pH	<u>7.19</u>
Temp. °C	<u>15.34</u>		
Redox Potential Eh (mV)	<u>255</u>		
Turbidity (NTU)	<u>156</u>		

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

Time	<u>0712</u>	Gal. Purged	<u>0</u>
Conductance	<u>1141</u>	pH	<u>7.53</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>297</u>		
Turbidity (NTU)	<u>2.9</u>		

Time	<u>0715</u>	Gal. Purged	<u>0</u>
Conductance	<u>1151</u>	pH	<u>7.55</u>
Temp. °C	<u>14.81</u>		
Redox Potential Eh (mV)	<u>287</u>		
Turbidity (NTU)	<u>3.5</u>		

Before

After

61-2028-2-76 - GR-Q05 Rev 7.0 06.12 / Temp: 6/21/2012 12:55 PM from D:\06060318

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 Labs

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:

Final Depth

Sample Time

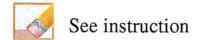
See instruction

Comment

Arrived on site at 1435 Tanner and Garrin present for purge.  
Purge began at 1439 Purged well for a total of 6 minutes. Purged well dry water was dirty milky/Greg. Purge ended at 1445. Left site at 1447  
Arrived on site at 0707. Tanner and Garrin present to collect samples.  
Depth to water was 34.15. samples bailed at 0712. Left site at 0715



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-18 Sampler Name and initials: Tanner Holiday/TH

Field Sample ID TWN-18.07262012

Date and Time for Purging 7/26/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

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 μMHOS/cm Well Depth(0.01ft): 145.00

Depth to Water Before Purging 57.85 Casing Volume (V) 4" Well: 56.90 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 2166 pH of Water (avg) 6.87

Well Water Temp. (avg) 14.96 Redox Potential (Eh) 307 Turbidity 58

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 23°

Time	<u>1007</u>	Gal. Purged	<u>88</u>
Conductance	<u>2164</u>	pH	<u>6.87</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>321</u>		
Turbidity (NTU)	<u>56.9</u>		

Time	<u>1008</u>	Gal. Purged	<u>99</u>
Conductance	<u>2165</u>	pH	<u>6.87</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>308</u>		
Turbidity (NTU)	<u>57.5</u>		

Time	<u>1009</u>	Gal. Purged	<u>110</u>
Conductance	<u>2167</u>	pH	<u>6.87</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>303</u>		
Turbidity (NTU)	<u>58.1</u>		

Time	<u>1010</u>	Gal. Purged	<u>121</u>
Conductance	<u>2169</u>	pH	<u>6.87</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>59.5</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 Labs

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:

Final Depth

Sample Time

 See instruction

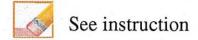
Comment

Arrived on site at 0955. Tanner and Garrin present for purge and sampling event. Purge began at 0959. Purged well for a total of 11 minutes. Water was a little dirty. Purge ended and samples collected at 1010. Left site at 1014

**TWN-18 07-26-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3rd Quarter Nitrate 2012

Location (well name): TWN-19 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TWN-19-07262012

Date and Time for Purging: 7/26/2012 and Sampling (if different): N/A

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

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 52.45 Casing Volume (V) 4" Well: 37.58 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 1968 pH of Water (avg): 7.07

Well Water Temp. (avg): 15.68 Redox Potential (Eh): 306 Turbidity: 12.1

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 28°

Time	<u>1400</u>	Gal. Purged	<u>44</u>
Conductance	<u>1963</u>	pH	<u>7.07</u>
Temp. °C	<u>15.71</u>		
Redox Potential Eh (mV)	<u>312</u>		
Turbidity (NTU)	<u>11.9</u>		

Time	<u>1401</u>	Gal. Purged	<u>55</u>
Conductance	<u>1975</u>	pH	<u>7.07</u>
Temp. °C	<u>15.69</u>		
Redox Potential Eh (mV)	<u>309</u>		
Turbidity (NTU)	<u>12.0</u>		

Time	<u>1402</u>	Gal. Purged	<u>66</u>
Conductance	<u>1966</u>	pH	<u>7.07</u>
Temp. °C	<u>15.65</u>		
Redox Potential Eh (mV)	<u>303</u>		
Turbidity (NTU)	<u>12.2</u>		

Time	<u>1403</u>	Gal. Purged	<u>77</u>
Conductance	<u>1970</u>	pH	<u>7.07</u>
Temp. °C	<u>15.67</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>12.5</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 Labs

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:

Final Depth

Sample Time

 See instruction

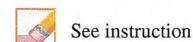
Comment

Arrived on site at 1352. Tanner and Garrin present for sampling event. Purge began at 1356. Purged well for a total of 7 minutes. Water was clear. Purge ended and samples collected at 1403. Left site at 1405.

**TWN-19 07-26-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): TWN-60 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-60\_07312012

Date and Time for Purging 7/31/2012 and Sampling (if different) N/A

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

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-02

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ 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) 1.9 pH of Water (avg) 7.52

Well Water Temp. (avg) 23.96 Redox Potential (Eh) 259 Turbidity 0

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

Time	<u>0745</u>	Gal. Purged	<u>0</u>
Conductance	<u>1.9</u>	pH	<u>7.52</u>
Temp. °C	<u>23.96</u>		
Redox Potential Eh (mV)	<u>259</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 Labs

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 Radiologies	<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:

Final Depth

Sample Time

 See instruction

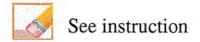
Comment

Arrived in Lab at 0743. Tanner Holliday present to collect DI Sample  
 Sample collected at 0747. Left Lab at 0750  
 DI Sample

**TWN-60 07-31-2012** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): TWN-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-65\_07252012

Date and Time for Purging 7/25/2012

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging 42.40

Casing Volume (V) 4" Well: 54.39 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1025

pH of Water (avg) 7.13

Well Water Temp. (avg) 14.69

Redox Potential (Eh) 403

Turbidity 53

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 19°

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 Labs

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:

Final Depth

Sample Time



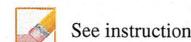
See instruction

Comment

**TWN-65 07-25-2012** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 3<sup>rd</sup> Quarter Nitrate 2012

Location (well name): TWN-70

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TWN-70-07272012

Date and Time for Purging: 7/27/2012  
7/26/2012

and Sampling (if different): 7/27/2012

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used:  2 casings  3 casings

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 135.00

Depth to Water Before Purging: 62.55

Casing Volume (V) 4" Well: 47.30 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 1065

pH of Water (avg): 7.52

Well Water Temp. (avg): 15.68

Redox Potential (Eh): 195

Turbidity: 43

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 25°

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)			

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 Labs

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:

Final Depth

Sample Time



See instruction

Comment

**TWN-70 02-07-2012** 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: 9/27/2012

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
832	MW-1	64.30	944	MW-4	72.04	801	PIEZ-1	62.08	NA	DR-1	ABANDON
1127	MW-2	109.80	942	TW4-1	64.85	756	PIEZ-2	27.04	NA	DR-2	ABANDON
1324	MW-3	83.11	945	TW4-2	67.26	752	PIEZ-3	41.47			
1325	MW-3A	85.15	938	TW4-3	50.15	1004	PIEZ-4	47.74			
1032	MW-5	106.45	949	TW4-4	70.13	1001	PIEZ-5	42.75	1203	DR-5	83.11
1027	MW-11	87.85	935	TW4-5	56.81				1207	DR-6	94.44
1036	MW-12	108.49	948	TW4-6	69.74	847	TWN-1	53.06	1021	DR-7	92.22
1009	MW-14	103.71	943	TW4-7	68.17	842	TWN-2	23.66	1216	DR-8	51.05
1011	MW-15	106.45	940	TW4-8	66.55	746	TWN-3	34.00	1212	DR-9	86.52
1331	MW-17	74.36	937	TW4-9	54.67	750	TWN-4	43.40	1210	DR-10	78.1
829	MW-18	70.17	932	TW4-10	55.95	834	TWN-5	69.55	1317	DR-11	98.3
759	MW-19	54.19	947	TW4-11	56.96	824	TWN-6	75.17	1321	DR-12	88.85
1308	MW-20	85.63	952	TW4-12	41.09	837	TWN-7	87.86	1328	DR-13	69.99
1300	MW-22	67.05	954	TW4-13	46.90	826	TWN-8	62.20	1227	DR-14	76.39
1043	MW-23	114.15	956	TW4-14	86.45	804	TWN-9	62.60	1312	DR-15	93
1124	MW-24	114.25	1103	TW4-15	74.59	822	TWN-10	80.85	NA	DR-16	ABANDON
1005	MW-25	73.55	1101	TW4-16	59.37	818	TWN-11	69.50	1230	DR-17	64.97
1103	MW-26	74.59	1053	TW4-17	74.36	815	TWN-12	27.34	NA	DR-18	ABANDON
841	MW-27	51.46	849	TW4-18	57.30	807	TWN-13	45.81	1234	DR-19	63.25
1121	MW-28	76.45	730	TW4-19	59.99	810	TWN-14	62.46	1245	DR-20	55.5
1046	MW-29	101.95	932	TW4-20	59.95	821	TWN-15	91.91	1251	DR-21	107.37
1049	MW-30	75.82	857	TW4-21	54.19	814	TWN-16	47.71	1238	DR-22	Dry
1059	MW-31	67.81	931	TW4-22	53.10	811	TWN-17	33.79	1248	DR-23	70.66
1053	MW-32	74.36	1055	TW4-23	64.45	743	TWN-18	57.95	1241	DR-24	43.84
1018	MW-33	dry	929	TW4-24	54.70	1154	TWN-19	52.50	NA	DR-25	ABANDON
1014	MW-34	107.94	845	TW4-25	49.31						
1041	MW-35	112.35	1057	TW4-26	63.11						
1015	MW-36	110.46	958	TW4-27	82.35						
1012	MW-37	107.25									

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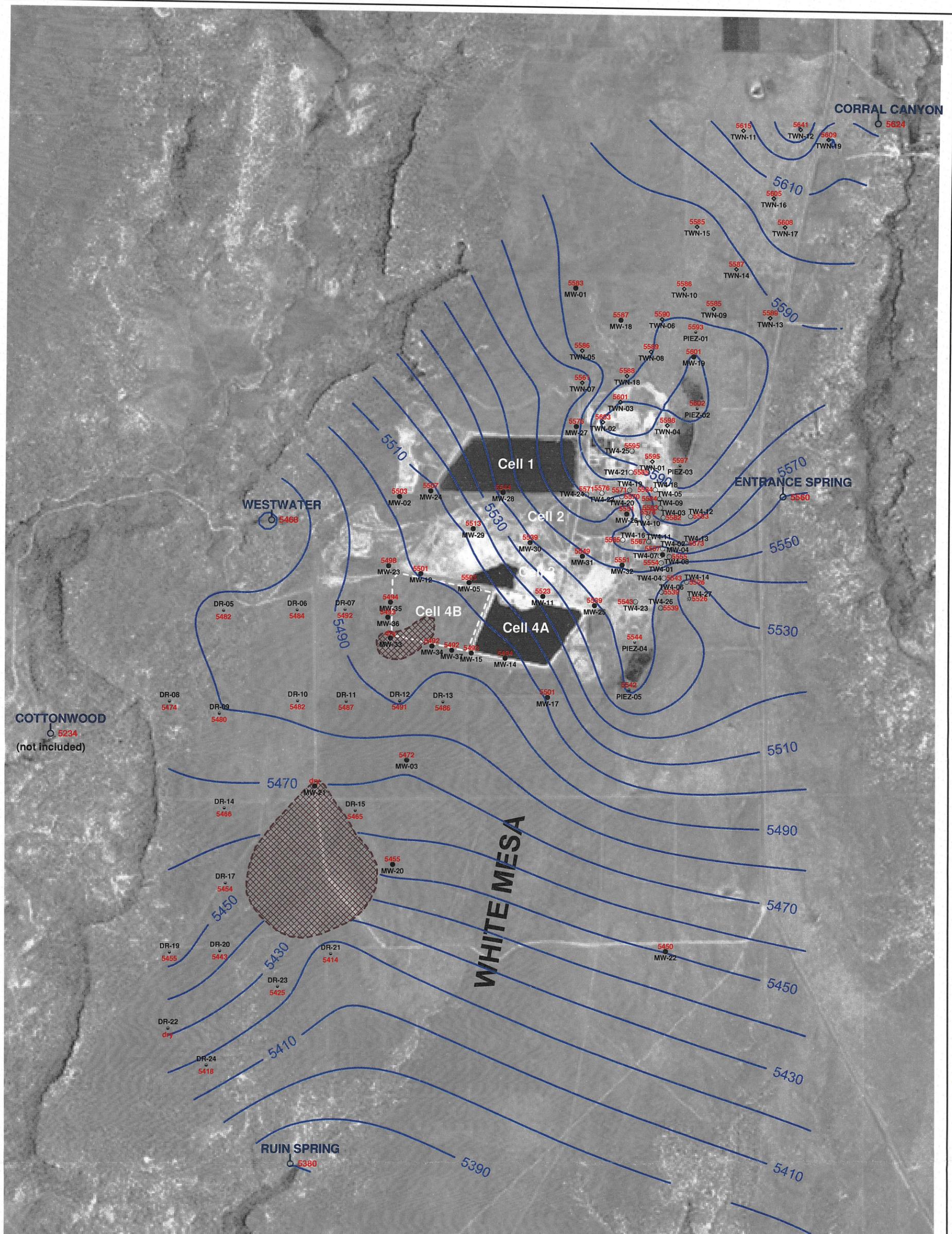
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**EXPLANATION**

-  estimated dry area
- MW-5**  
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5583 temporary perched monitoring well showing elevation in feet amsl
- TWN-10**  
 5586 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**  
 5593 perched piezometer showing elevation in feet amsl
- TW4-27**  
 5526 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl



1 mile

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



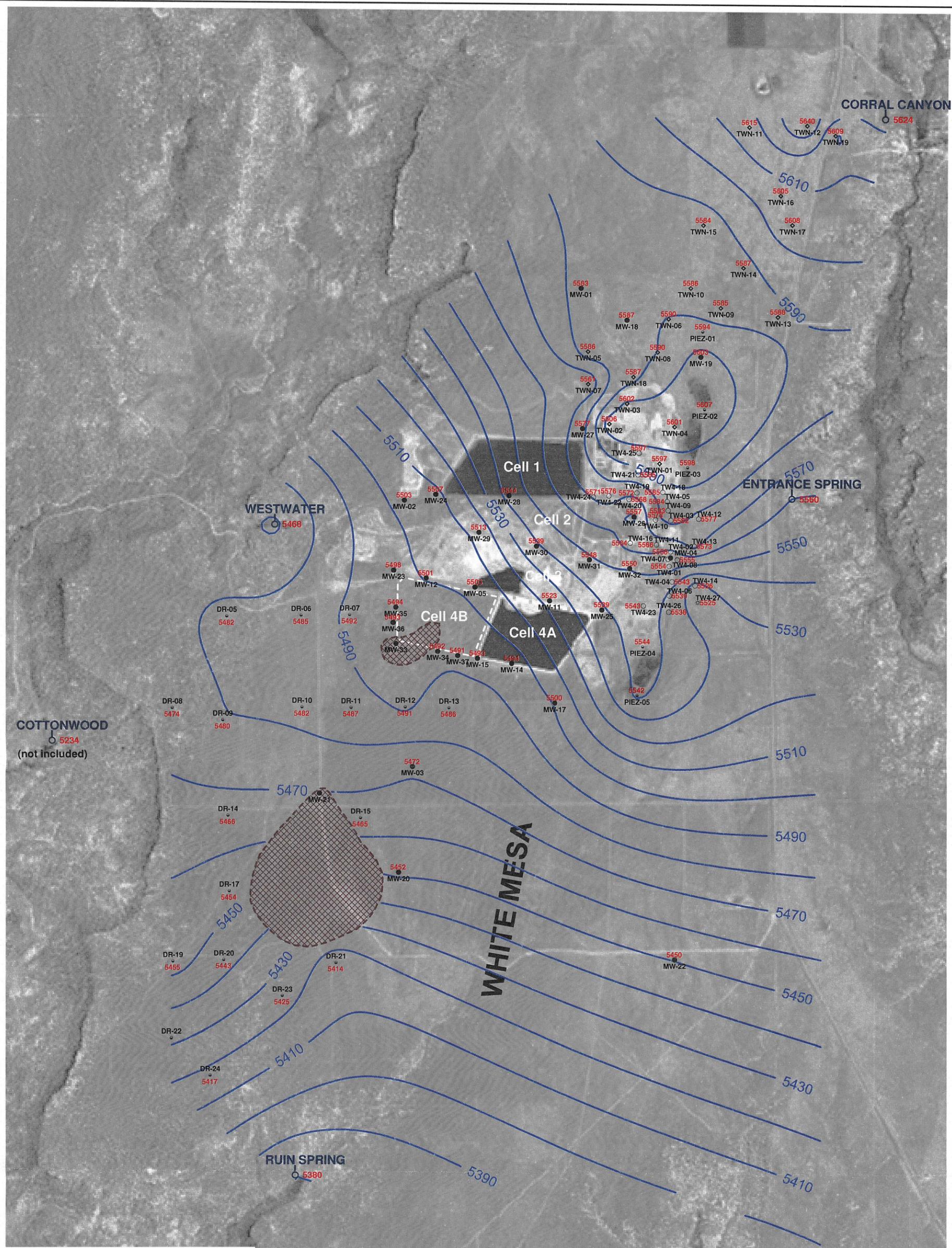
**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 3rd QUARTER, 2012 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov12/Uwl0912.srf	C-1

Tab D

Kriged Previous Quarter Groundwater Contour Map



**EXPLANATION**

-  Estimated dry area
- MW-5**  
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5577 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**  
 5525 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUI SPRING**  
 5380 seep or spring showing elevation in feet amsl

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



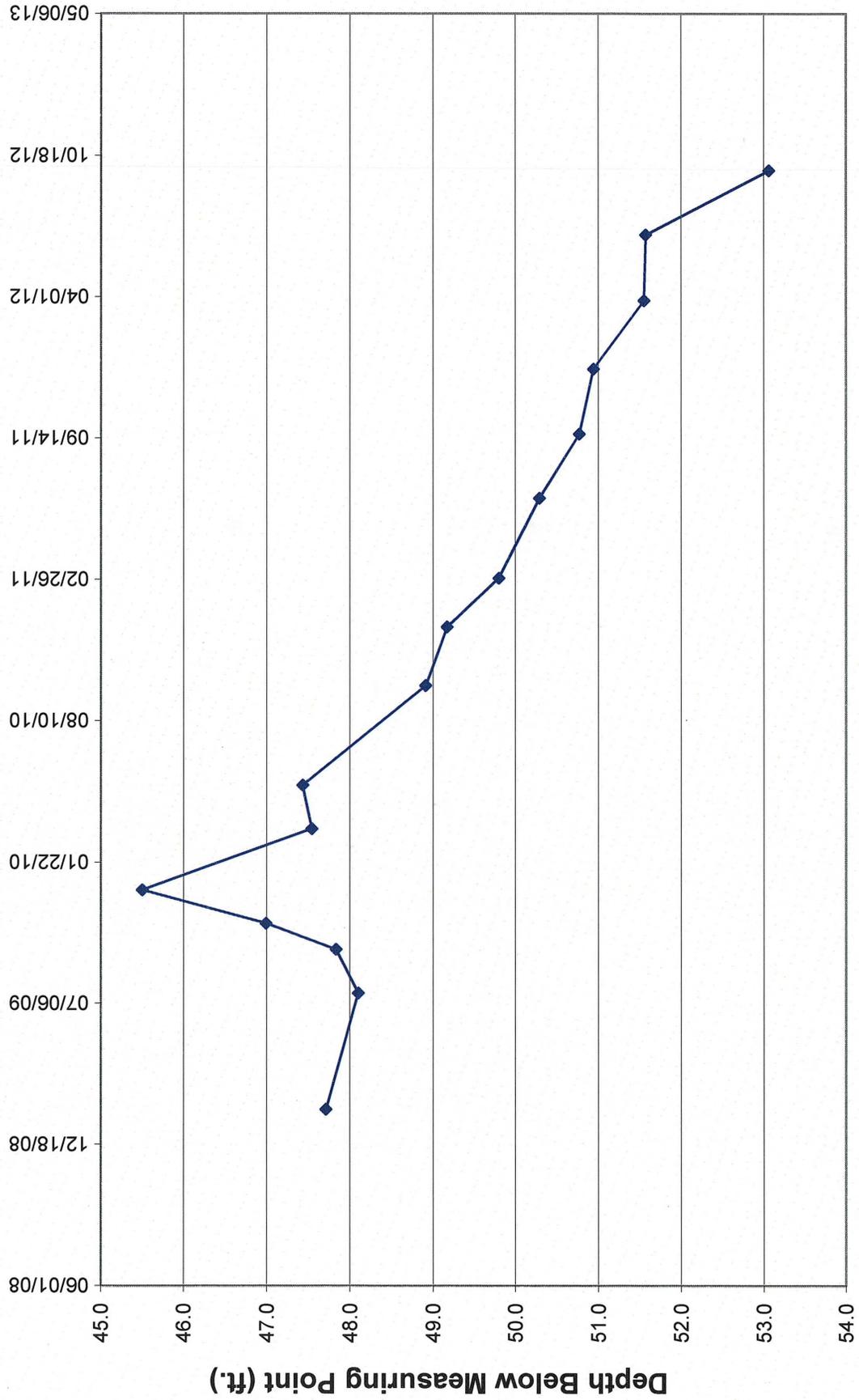
**HYDRO  
GEO  
CHEM, INC.**

<b>KRIGED 2nd QUARTER, 2012 WATER LEVELS WHITE MESA SITE</b>			
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug12/Uwl0612_rev.srf	D-1

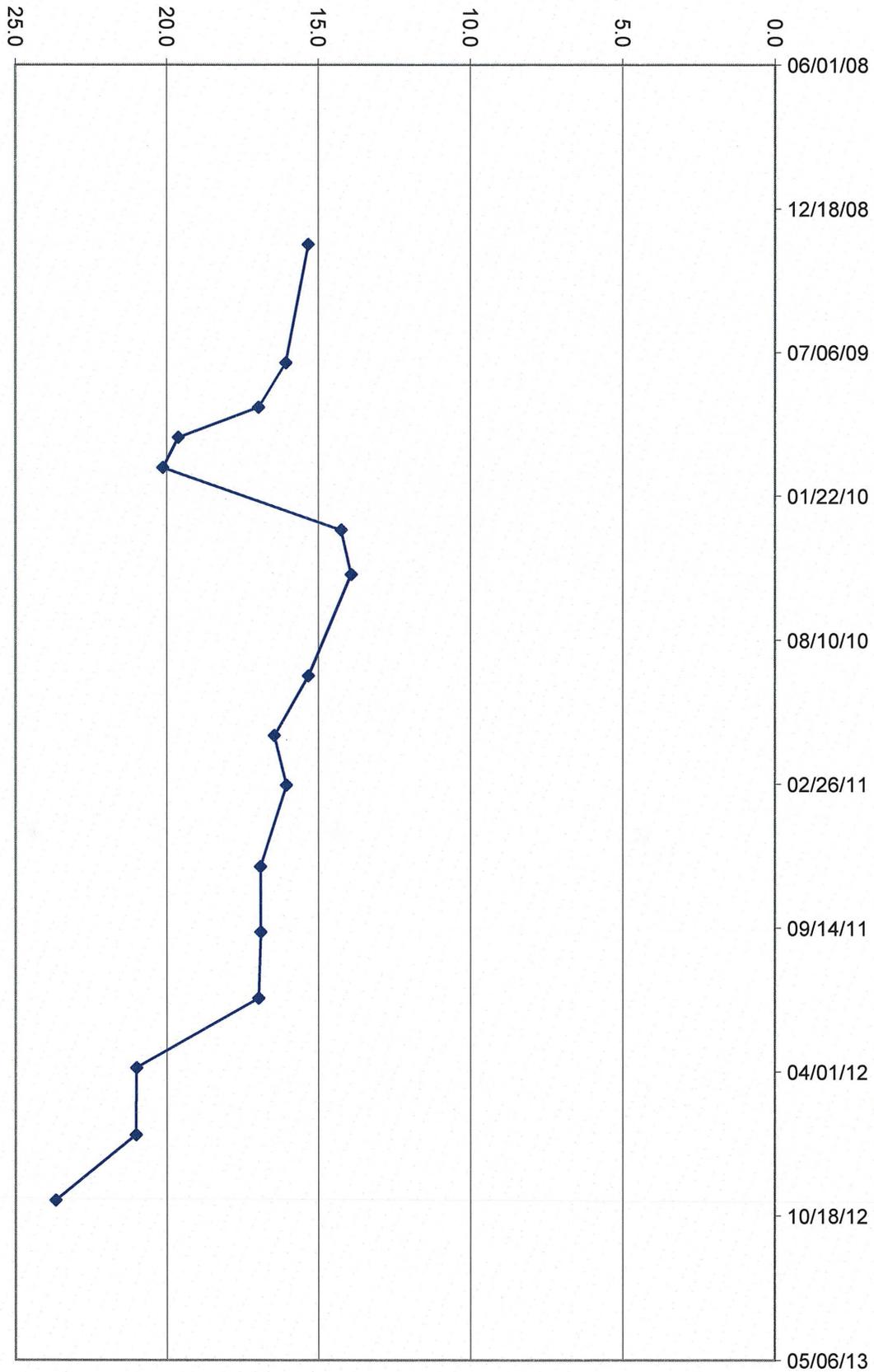
Tab E

Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

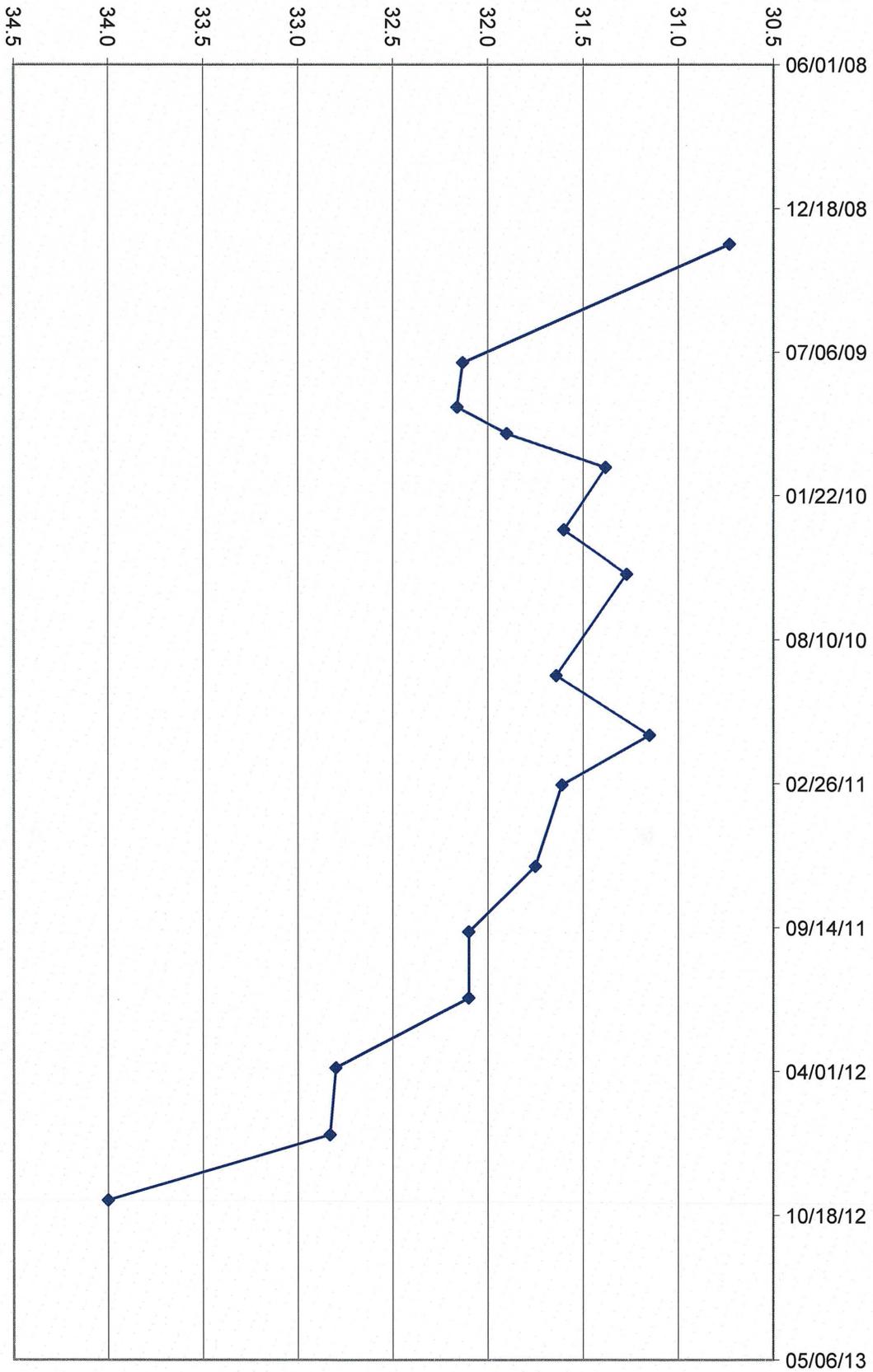
TWN-1 Water Level Over Time (ft. blmp)

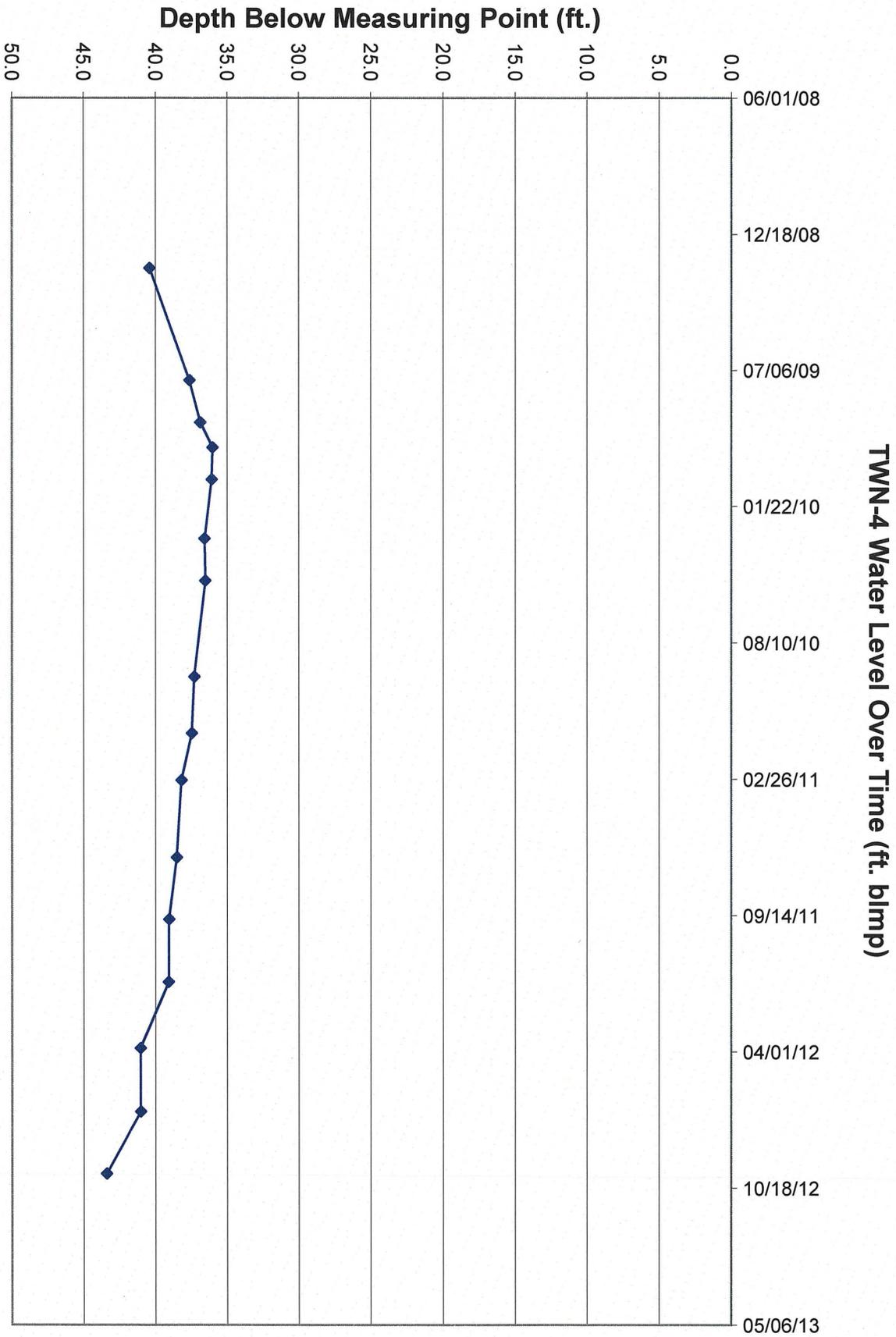


Depth Below Measuring Point (ft.)

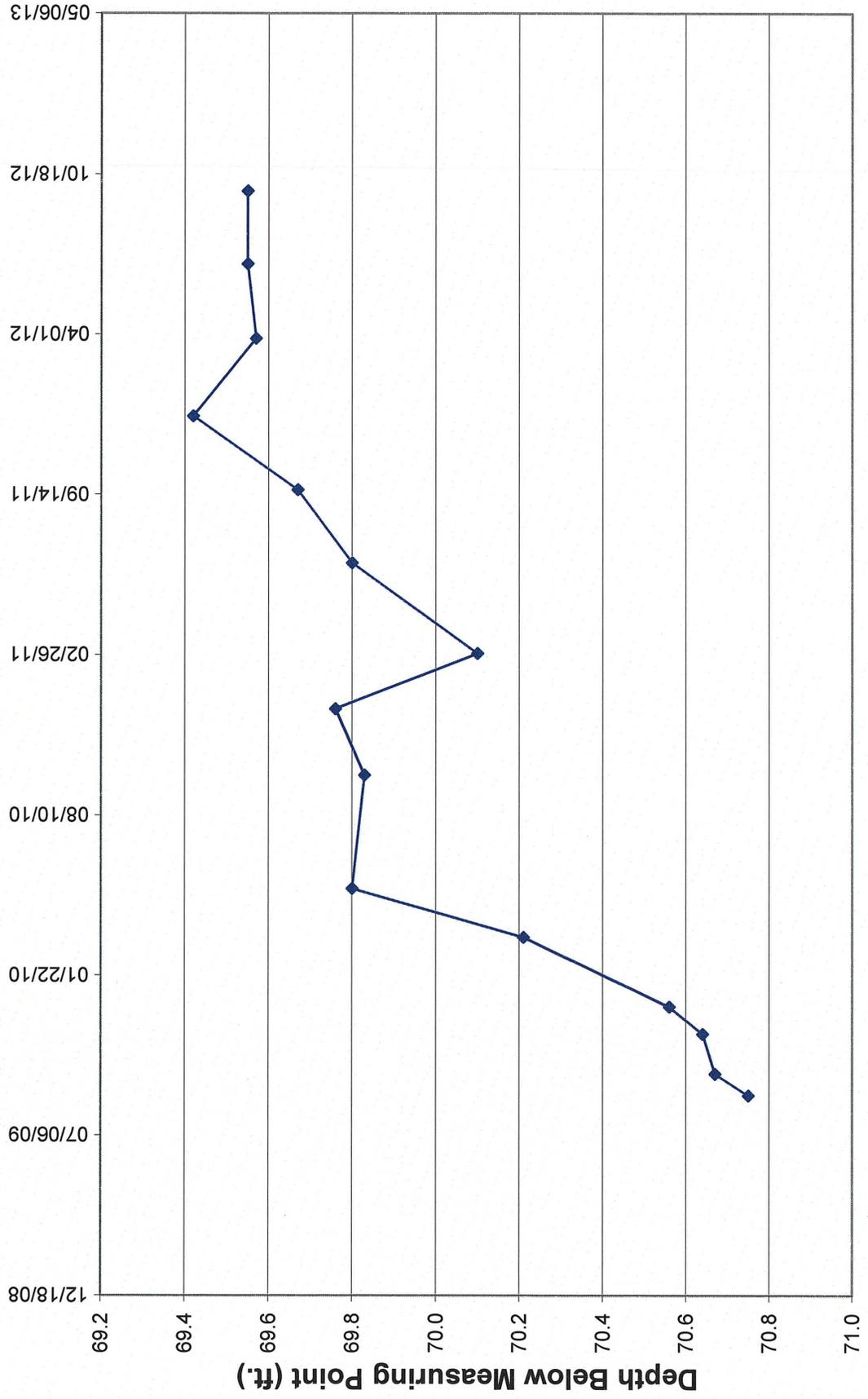


Depth Below Measuring Point (ft.)

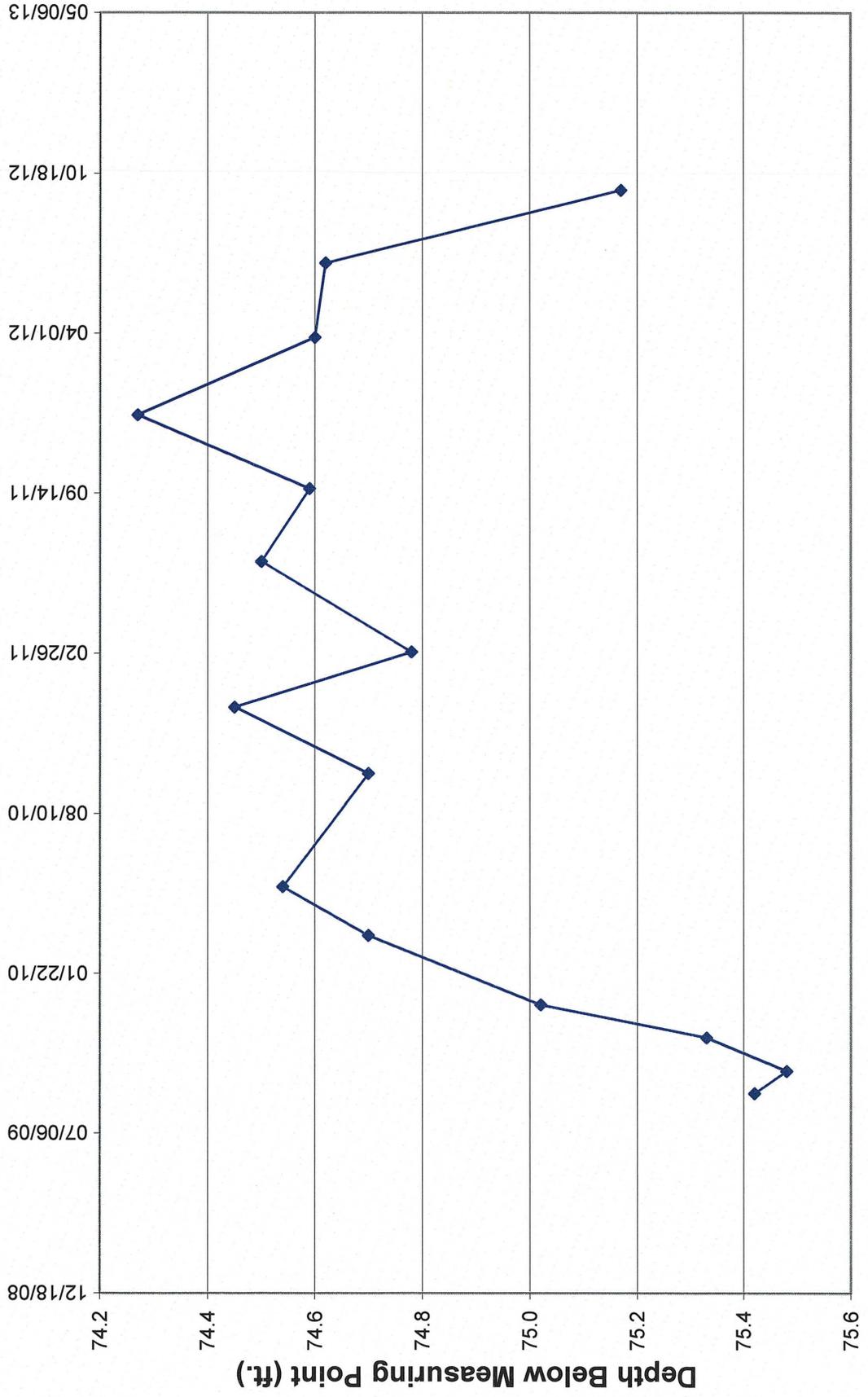




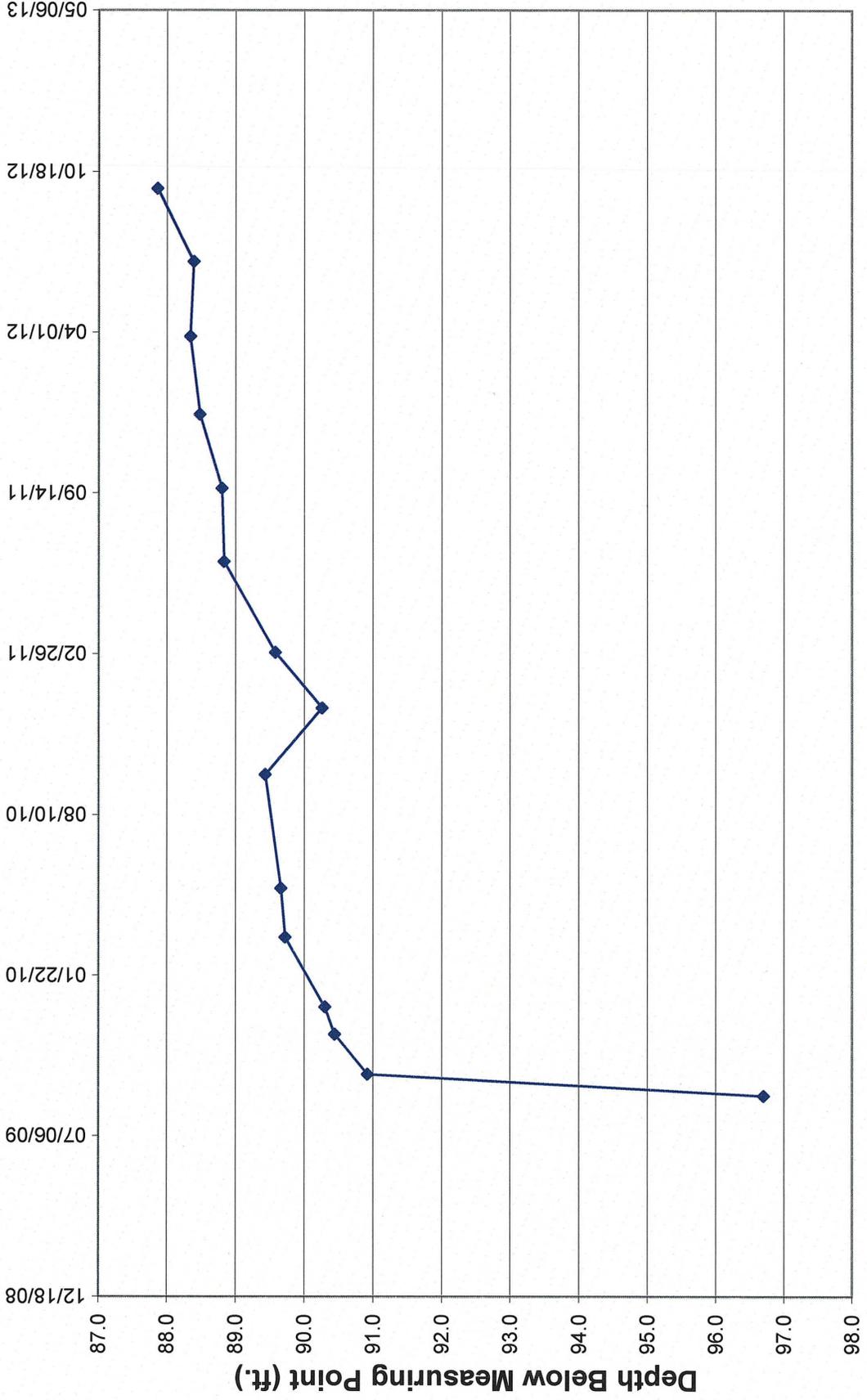
TWN-5 Water Level Over Time (ft. blmp)

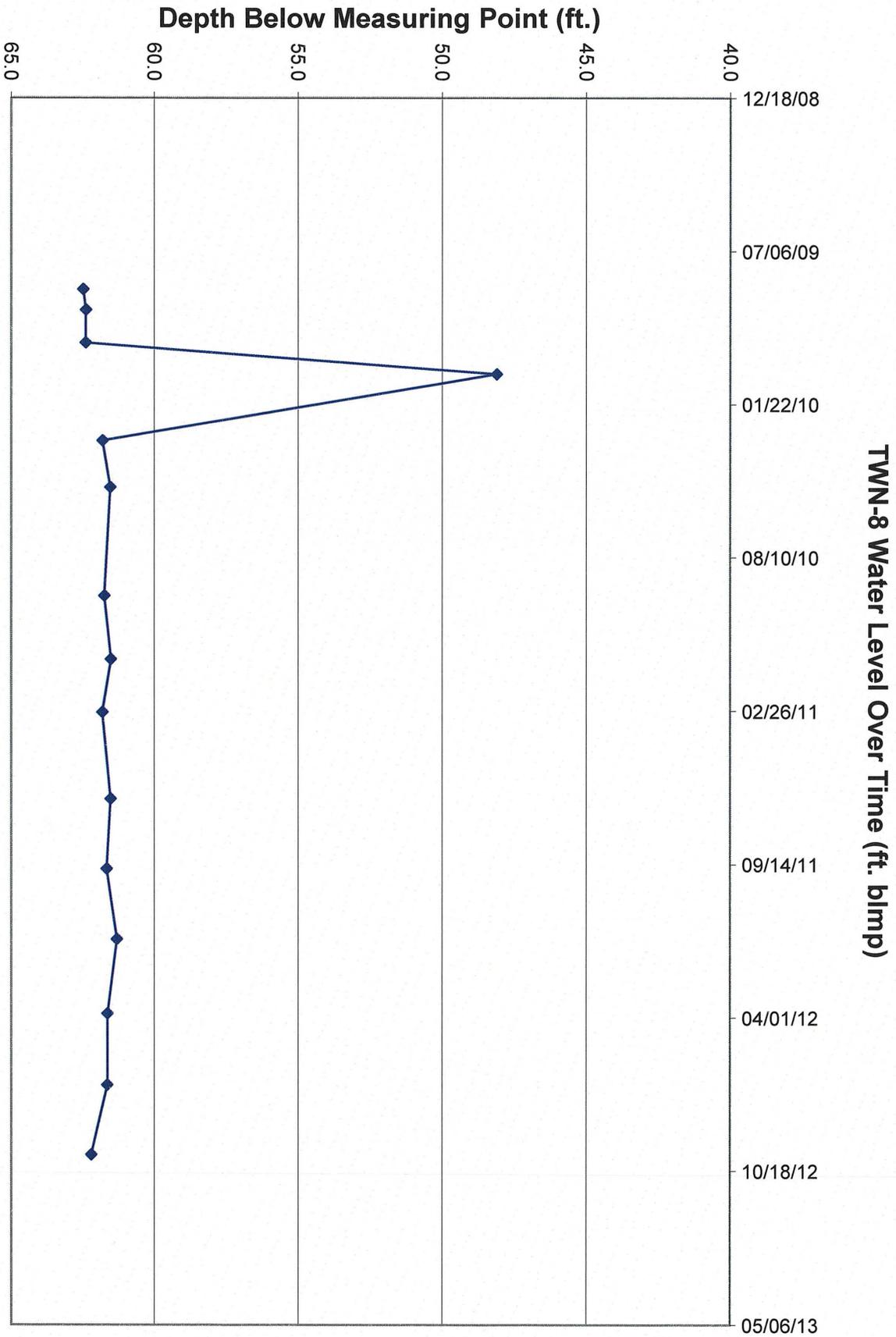


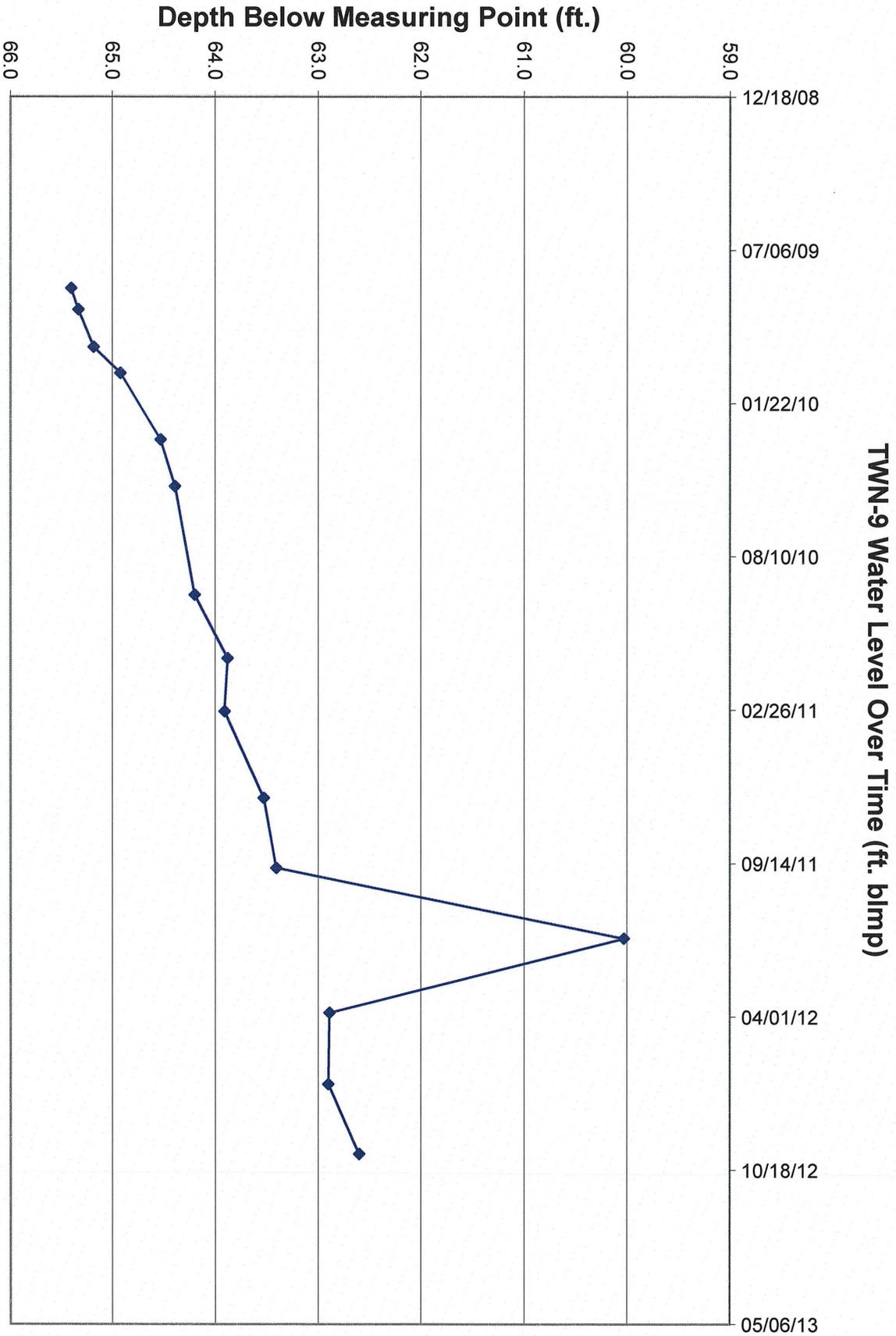
TWN-6 Water Level Over Time (ft. blimp)

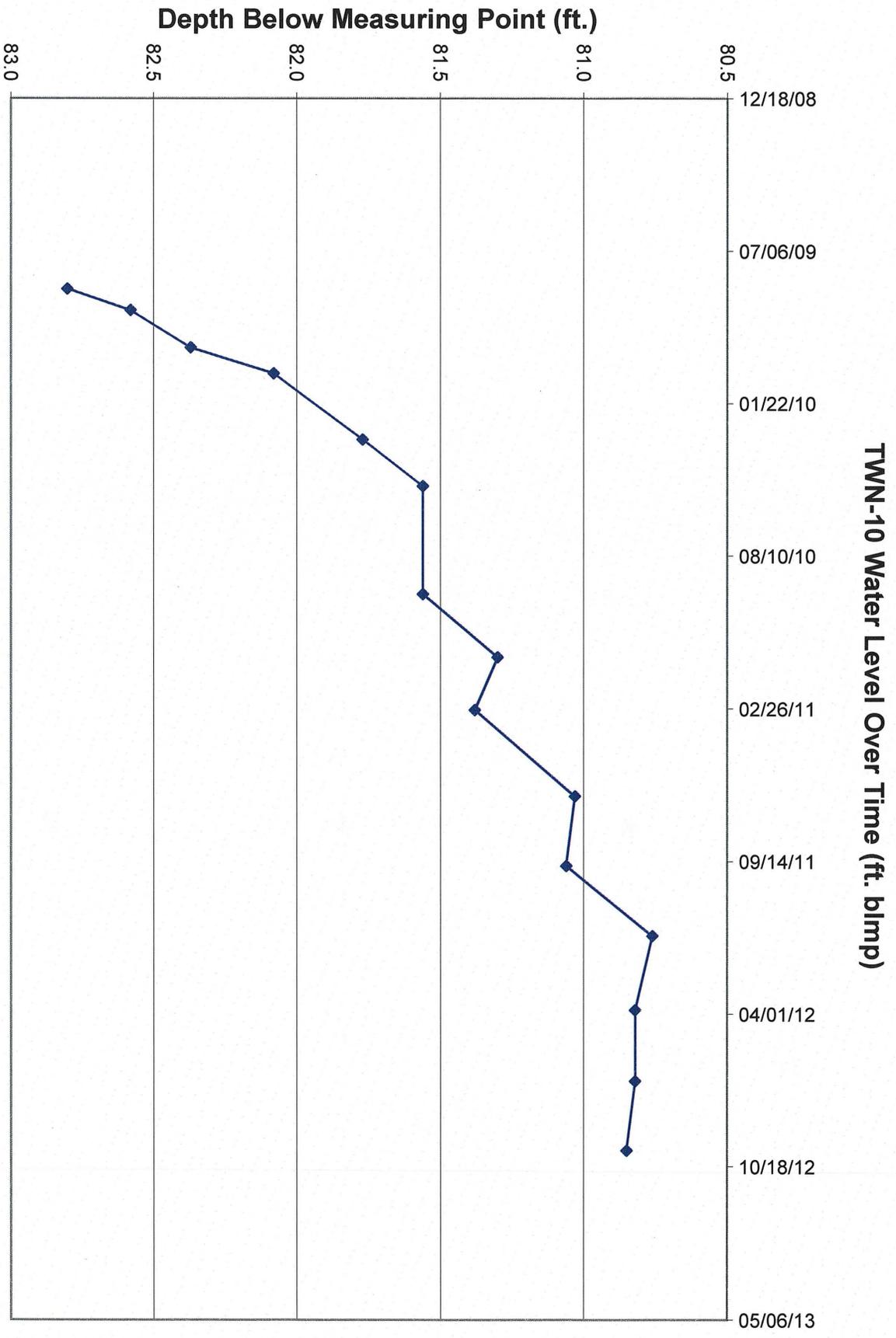


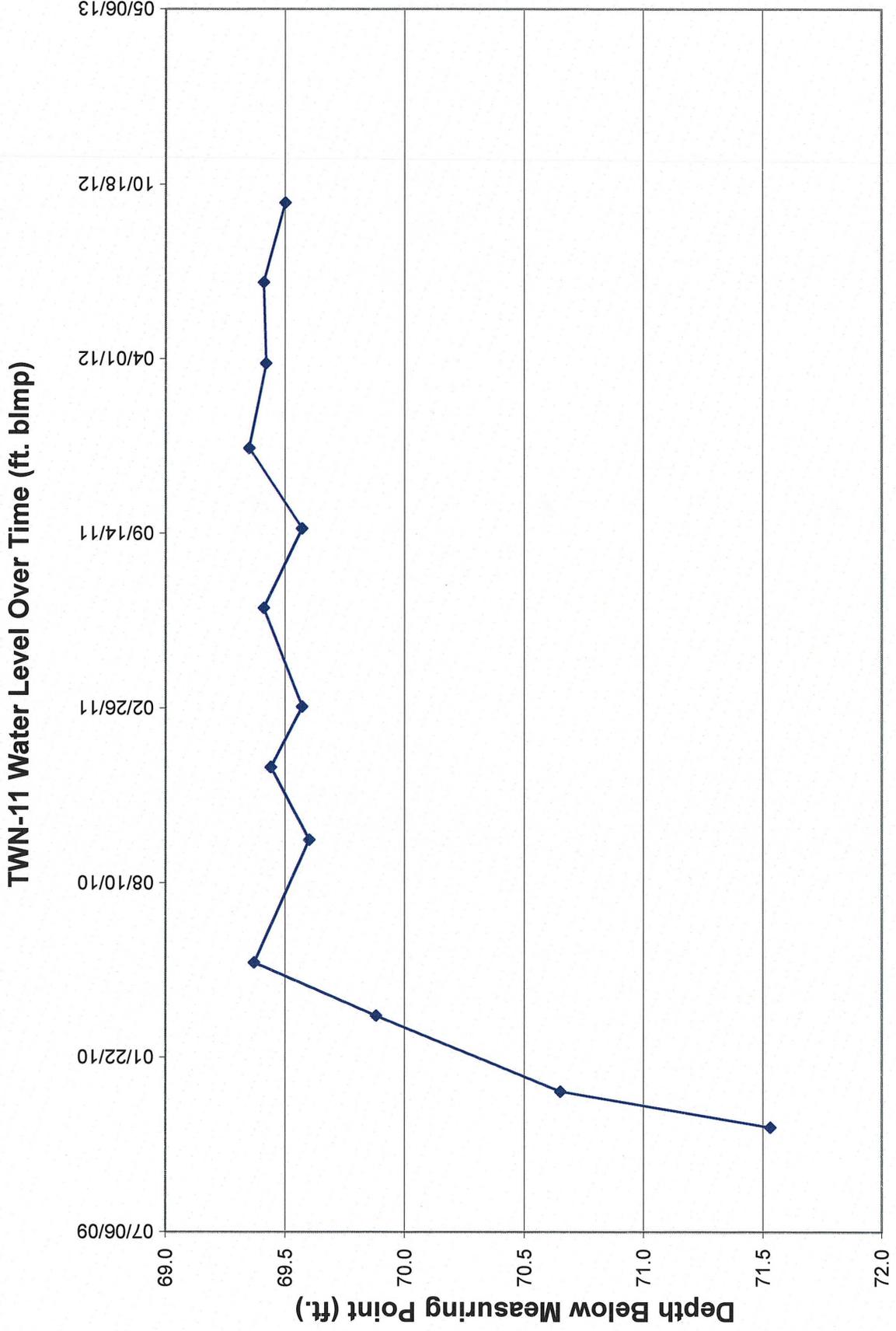
TWN-7 Water Level Over Time (ft. blmp)



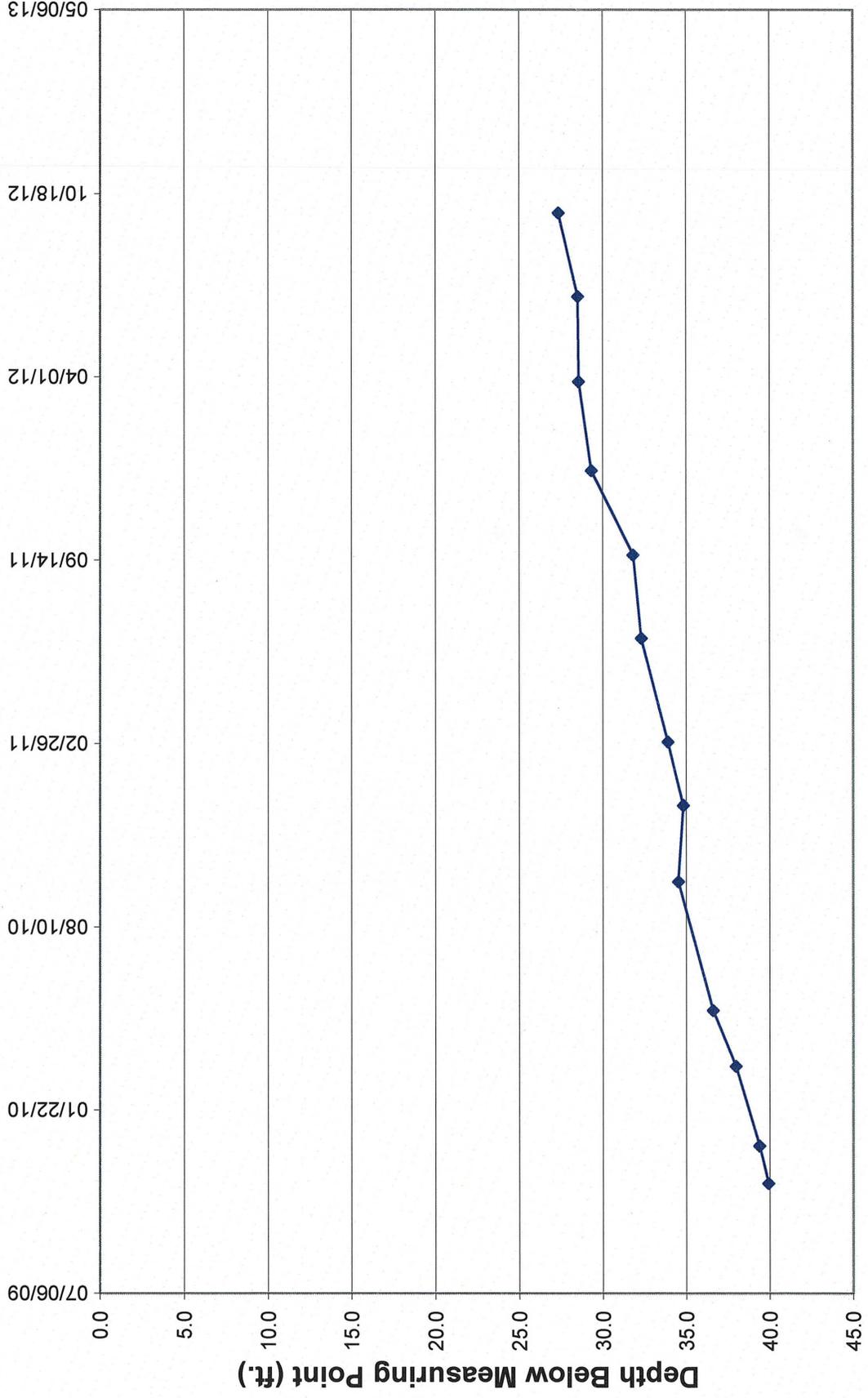




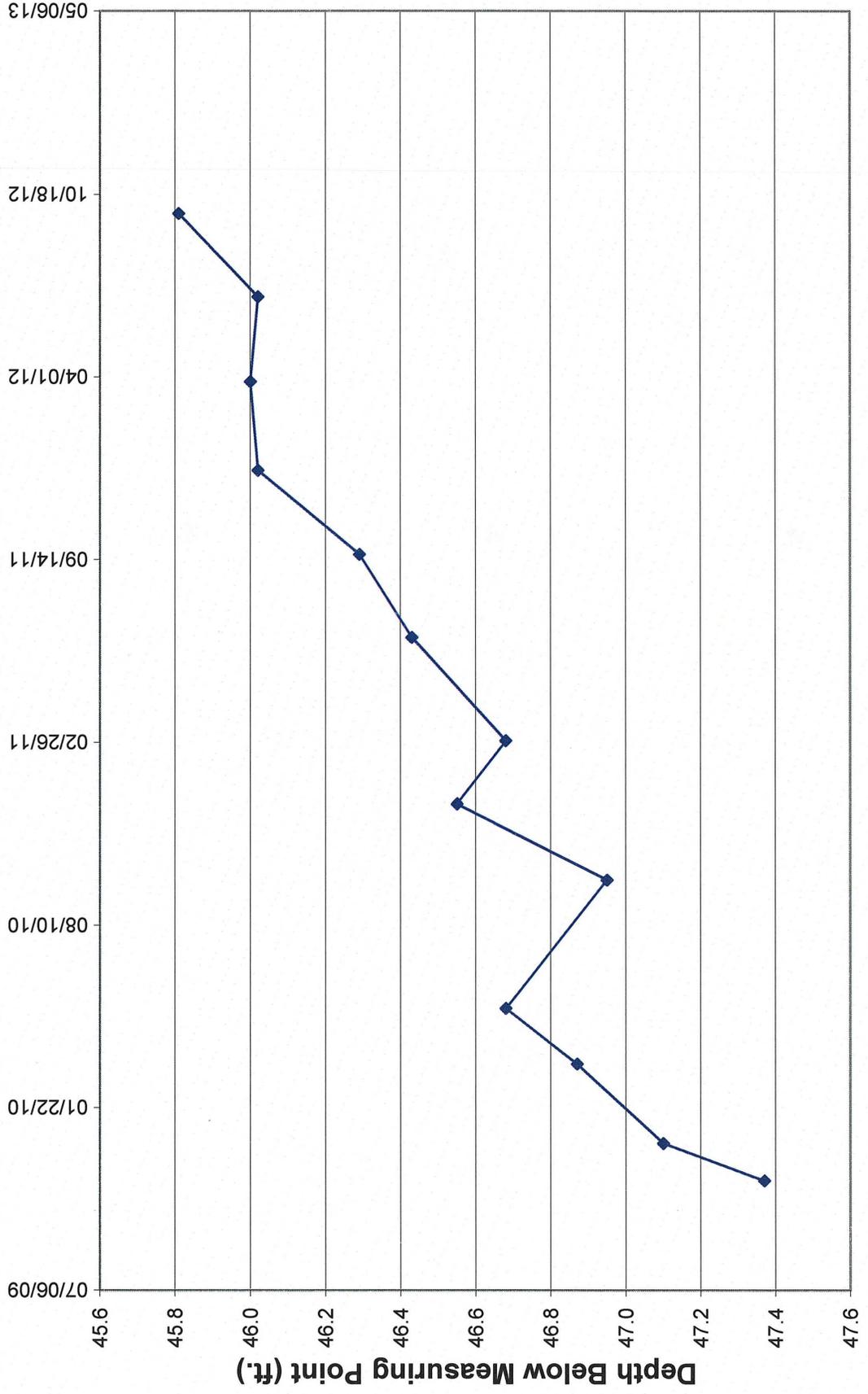




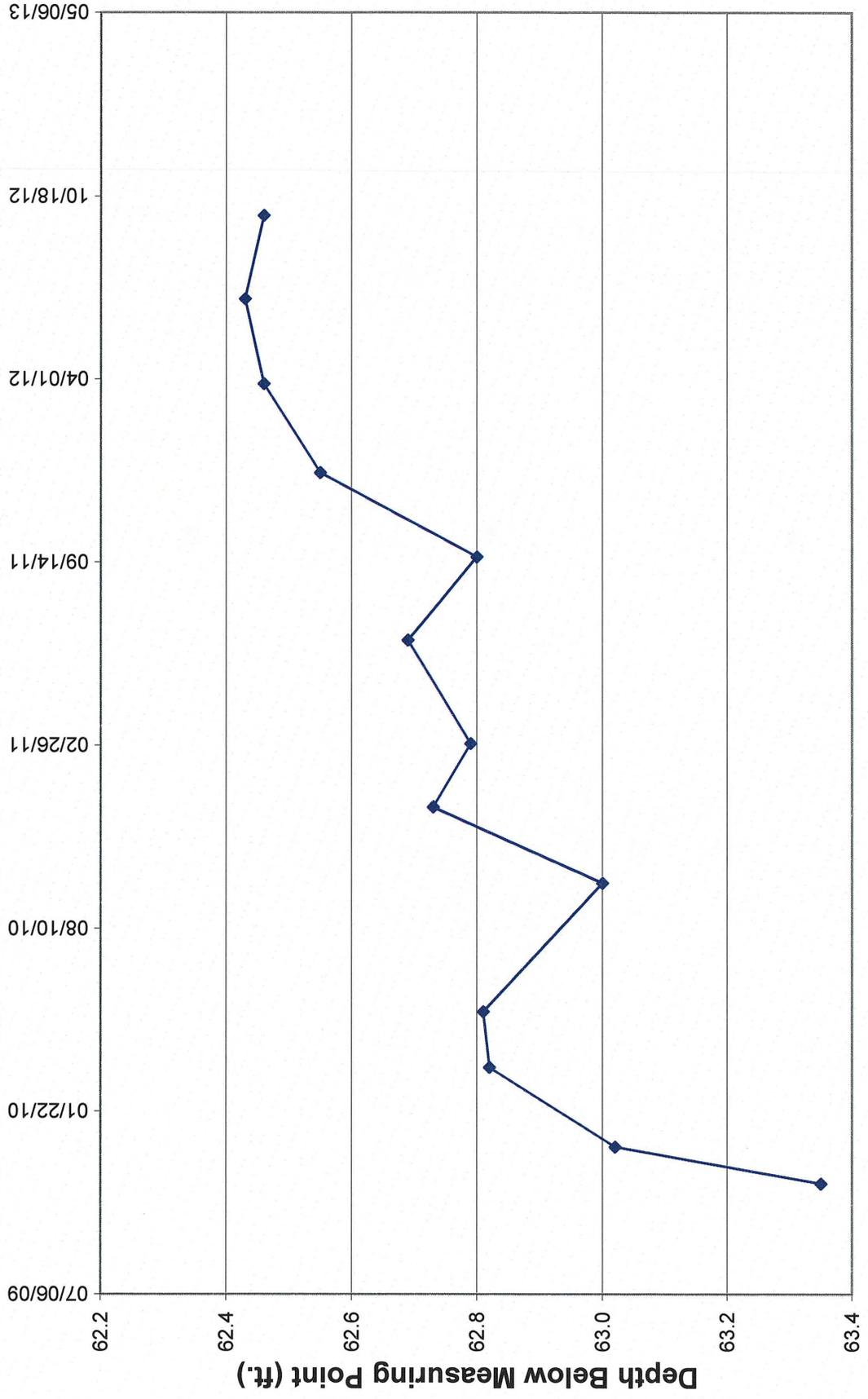
TWN-12 Water Level Over Time (ft. blmp)

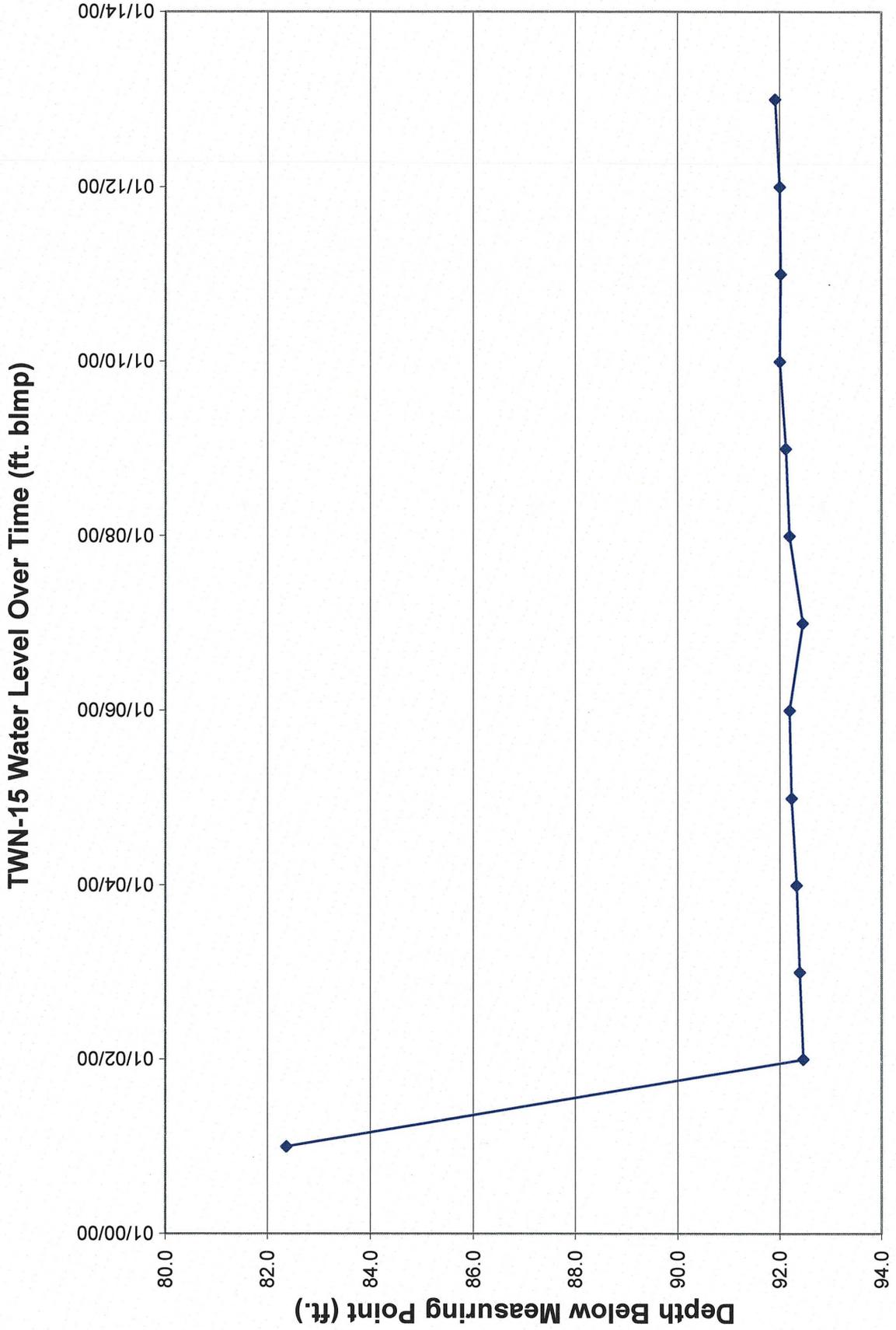


TWN-13 Water Level Over Time (ft. blmp)

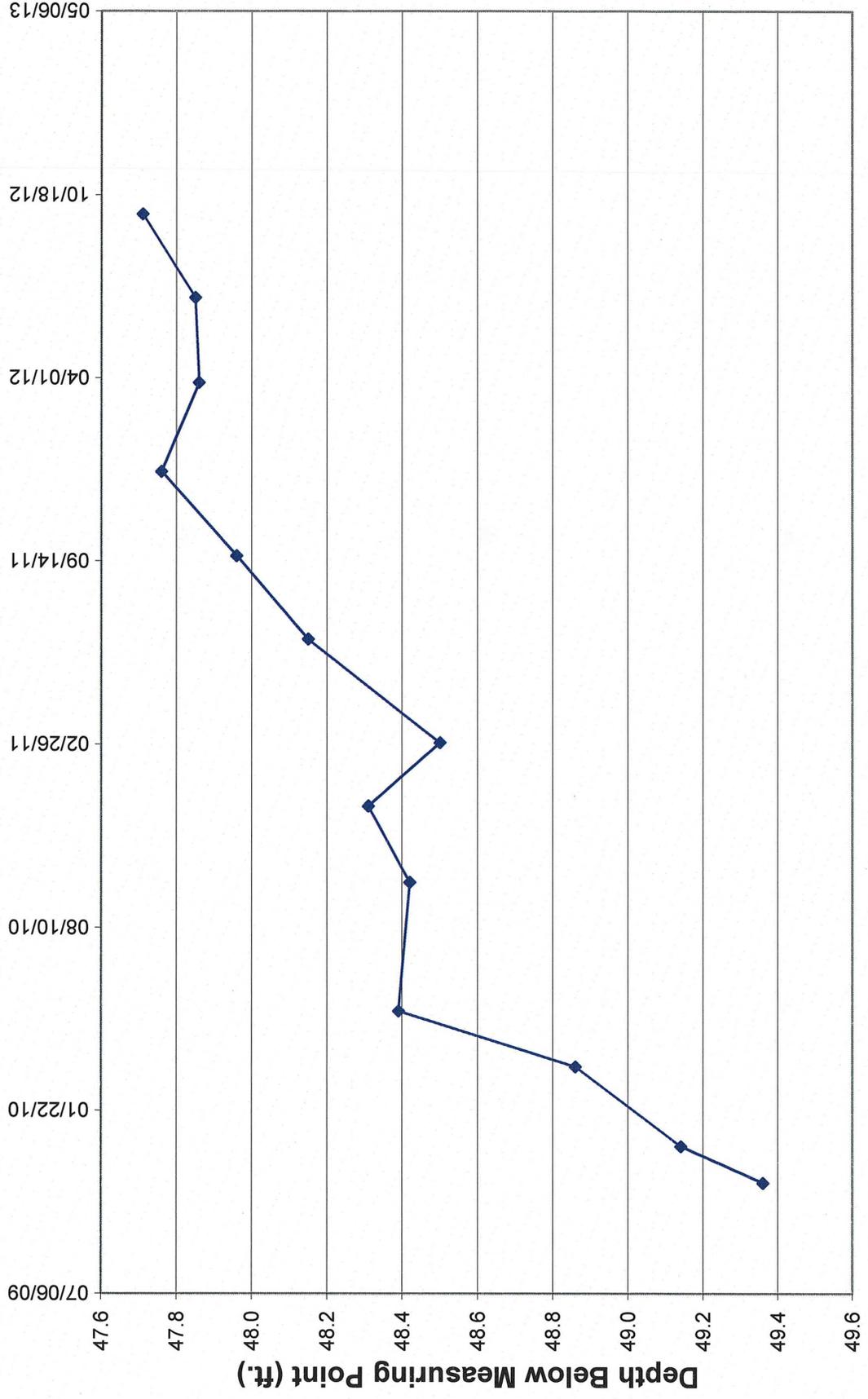


TWN-14 Water Level Over Time (ft. blmp)

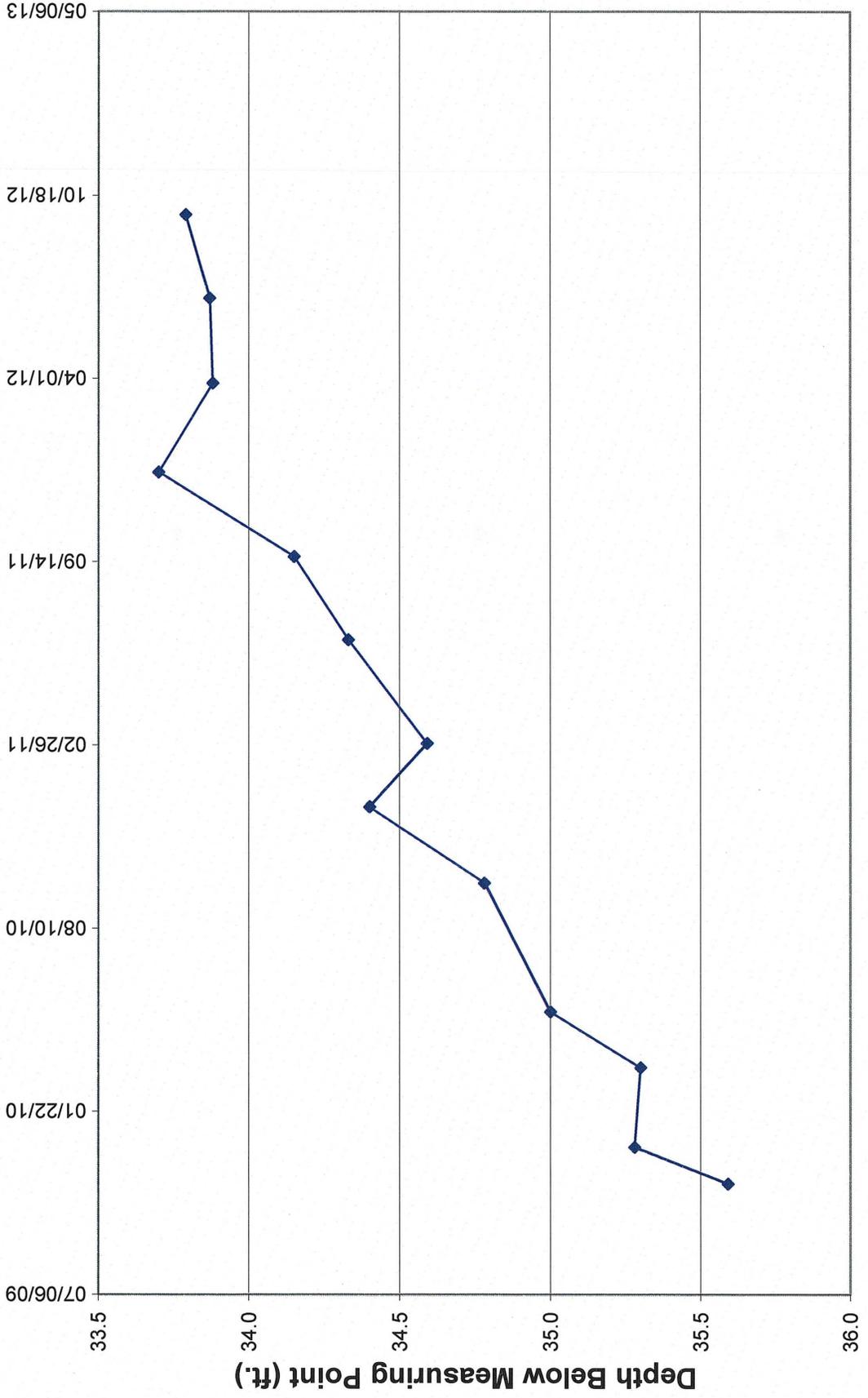




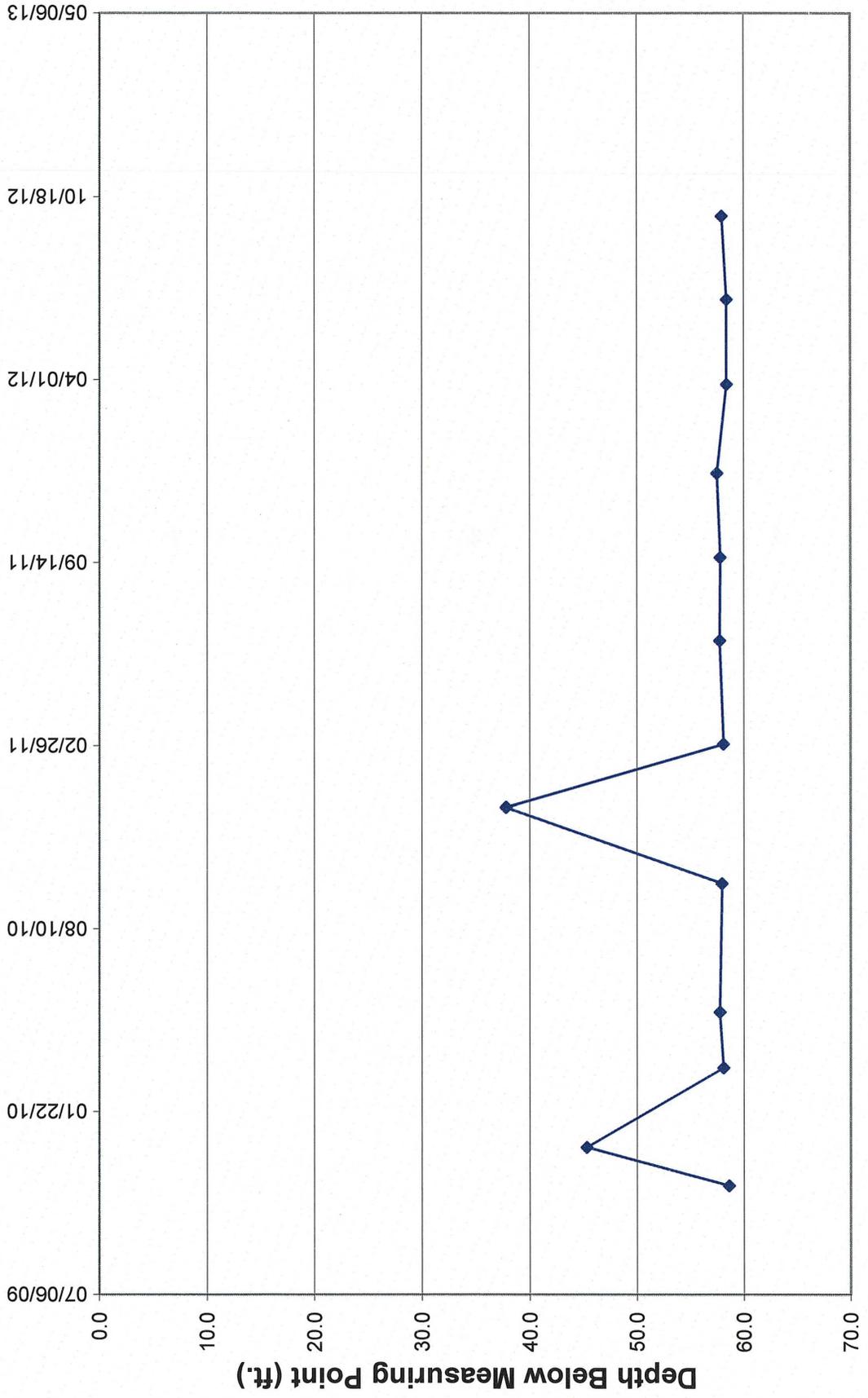
TWN-16 Water Level Over Time (ft. blmp)

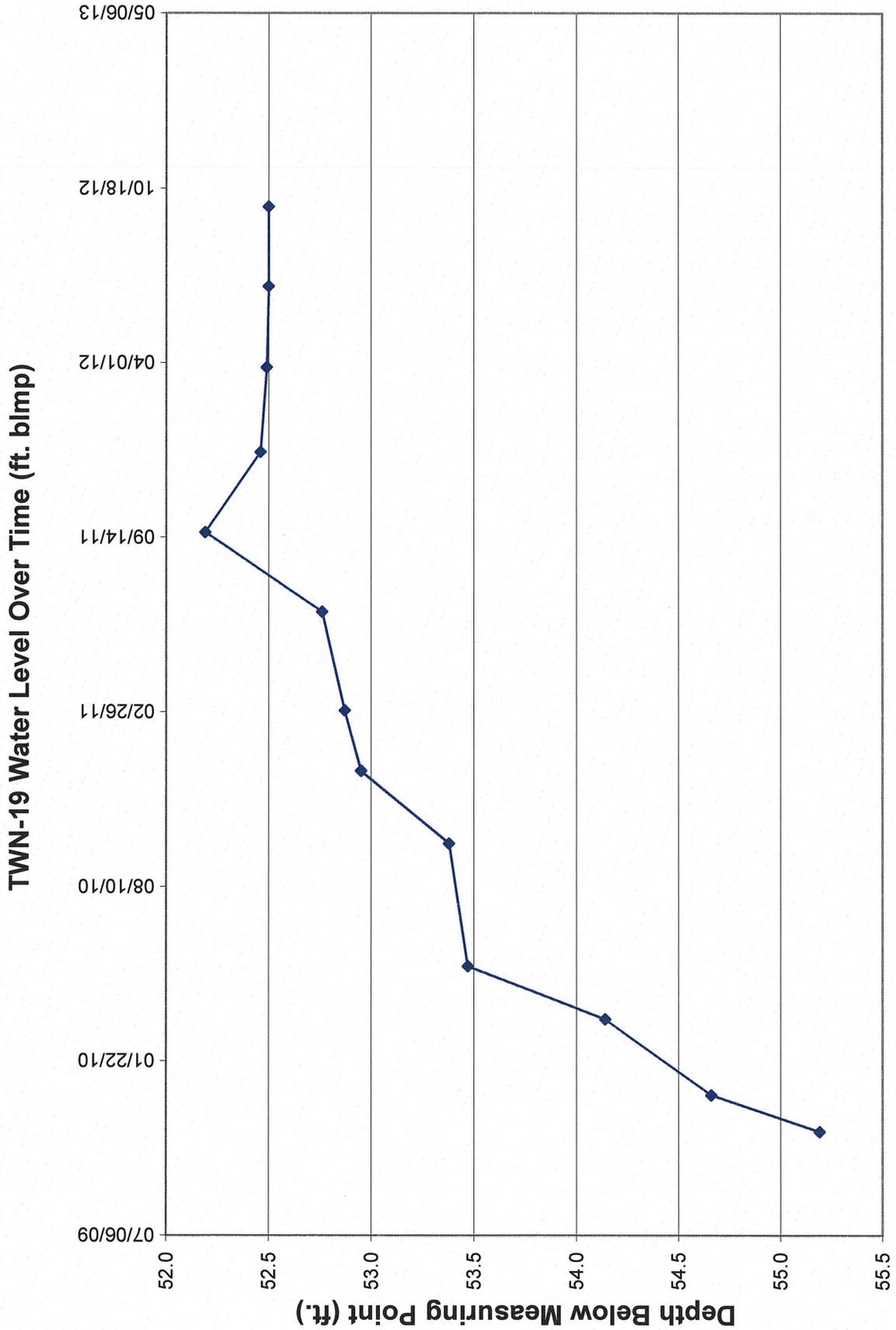


TWN-17 Water Level Over Time (ft. blmp)



TWN-18 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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,596.52				06/28/12	51.57	50.44	
5,595.03				09/27/12	53.06	51.93	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,605.67				06/28/12	21.02	20.08	
5,603.03				09/27/12	23.66	22.72	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,601.67				06/28/12	32.83	31.97	
5,600.50				09/27/12	34.00	33.14	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,600.84				06/28/12	41.03	40.20	
5,598.47				09/27/12	43.40	42.57	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,585.63				06/28/12	69.55	68.07	
5,585.63				09/27/12	69.55	68.07	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,590.32				06/28/12	74.62	72.71	
5,589.77				09/27/12	75.17	73.26	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,560.87				06/28/12	88.39	86.52	
5,561.40				09/27/12	87.86	85.99	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,589.84				06/28/12	61.64	59.51	
5,589.28				09/27/12	62.20	60.07	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,584.55				06/28/12	62.90	61.13	
5,584.85				09/27/12	62.6	60.83	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,586.16				06/28/12	80.82	78.47	
5,586.13				09/27/12	80.85	78.50	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,615.12				06/28/12	69.41	68.04	
5,615.03				09/27/12	69.50	68.13	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,639.74				06/28/12	28.50	27.29	
5,640.90				09/27/12	27.34	26.13	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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	
5,588.30				06/28/12	46.02	44.74	
5,588.51				09/27/12	45.81	44.53	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,587.10				06/28/12	62.43	60.70	
5,587.07				09/27/12	62.46	60.73	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,584.49				06/28/12	92.00	90.52	
5,584.58				09/27/12	91.91	90.43	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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	
5,604.85				06/28/12	47.85	46.22	
5,604.99				09/27/12	47.71	46.08	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,607.68				06/28/12	33.87	32.05	
5,607.76				09/27/12	33.79	31.97	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,587.05				06/28/12	58.40	56.90	
5,587.50				09/27/12	57.95	56.45	

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

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,608.86				06/28/12	52.50	50.73	
5,608.86				09/27/12	52.50	50.73	

**Tab G**

**Laboratory Analytical Reports**



# ANALYTICAL SUMMARY REPORT

August 13, 2012

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

Workorder No.: C12080031      Quote ID: C3317 - Nitrate and Chloride Sampling  
Project Name: 3rd Quarter Nitrate

Energy Laboratories, Inc. Casper WY received the following 28 samples for Denison Mines USA Corp on 8/1/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12080031-001	TWN-13R_07242012	07/24/12 7:20	08/01/12	Aqueous	E300.0 Anions Nitrogen, Nitrate + Nitrite
C12080031-002	TWN-13_07242012	07/24/12 7:50	08/01/12	Aqueous	Same As Above
C12080031-003	TWN-08_07242012	07/24/12 8:30	08/01/12	Aqueous	Same As Above
C12080031-004	TWN-05_07242012	07/24/12 9:16	08/01/12	Aqueous	Same As Above
C12080031-005	TWN-01_07242012	07/24/12 10:14	08/01/12	Aqueous	Same As Above
C12080031-006	TWN-10_07252012	07/25/12 7:50	08/01/12	Aqueous	Same As Above
C12080031-007	TWN-04_07252012	07/25/12 6:52	08/01/12	Aqueous	Same As Above
C12080031-008	TWN-06_07252012	07/25/12 7:38	08/01/12	Aqueous	Same As Above
C12080031-009	TWN-12_07252012	07/25/12 8:42	08/01/12	Aqueous	Same As Above
C12080031-010	TWN-07_07262012	07/26/12 6:47	08/01/12	Aqueous	Same As Above
C12080031-011	TWN-15_07262012	07/26/12 7:02	08/01/12	Aqueous	Same As Above
C12080031-012	TWN-11_07252012	07/25/12 12:43	08/01/12	Aqueous	Same As Above
C12080031-013	TWN-16_07252012	07/25/12 13:42	08/01/12	Aqueous	Same As Above
C12080031-014	TWN-18_07262012	07/26/12 10:10	08/01/12	Aqueous	Same As Above
C12080031-015	TWN-14_07272012	07/27/12 7:00	08/01/12	Aqueous	Same As Above
C12080031-016	TWN-19_07262012	07/26/12 14:03	08/01/12	Aqueous	Same As Above
C12080031-017	TWN-17_07272012	07/27/12 7:12	08/01/12	Aqueous	Same As Above
C12080031-018	TWN-09_07312012	07/31/12 7:07	08/01/12	Aqueous	Same As Above
C12080031-019	TWN-03_07312012	07/31/12 7:20	08/01/12	Aqueous	Same As Above
C12080031-020	TWN-02_07312012	07/31/12 7:31	08/01/12	Aqueous	Same As Above
C12080031-021	Piez-01_07272012	07/27/12 8:05	08/01/12	Aqueous	Same As Above
C12080031-022	Piez-02_07272012	07/27/12 7:31	08/01/12	Aqueous	Same As Above
C12080031-023	Piez-03_07272012	07/27/12 7:50	08/01/12	Aqueous	Same As Above
C12080031-024	TWN-65_07252012	07/25/12 6:52	08/01/12	Aqueous	Same As Above
C12080031-025	TWN-70_07272012	07/27/12 7:00	08/01/12	Aqueous	Same As Above
C12080031-026	TWN-60_07312012	07/31/12 7:47	08/01/12	Aqueous	Same As Above
C12080031-027	TWN-09R_07302012	07/30/12 9:25	08/01/12	Aqueous	Same As Above
C12080031-028	Temp Blank	07/31/12 0:00	08/01/12	Aqueous	Temperature

## ANALYTICAL SUMMARY REPORT

The results as reported relate only to the item(s) submitted for testing. 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.

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: 2012.08.13 16:28:10 -06:00

**CLIENT:** Denison Mines USA Corp  
**Project:** 3rd Quarter Nitrate  
**Sample Delivery Group:** C12080031

**Report Date:** 08/13/12

## CASE NARRATIVE

### 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, Radiochemical WY200002; Utah: WY00002; Virginia: 00057; Washington: C836

### 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](http://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](http://www.energylab.com).



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Denison Mines USA Corp  
**Project:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-001  
**Client Sample ID:** TWN-13R\_07242012

**Collection Date:** 07/24/12 07:20  
**DateReceived:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	ND	mg/L		1		E300.0	08/03/12 20:48 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/02/12 11:40 / lr

**Lab ID:** C12080031-002  
**Client Sample ID:** TWN-13\_07242012

**Collection Date:** 07/24/12 07:50  
**DateReceived:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	48	mg/L		1		E300.0	08/06/12 21:42 / wc
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	08/02/12 11:42 / lr

**Lab ID:** C12080031-003  
**Client Sample ID:** TWN-08\_07242012

**Collection Date:** 07/24/12 08:30  
**DateReceived:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	11	mg/L		1		E300.0	08/06/12 22:34 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/02/12 11:45 / lr

**Lab ID:** C12080031-004  
**Client Sample ID:** TWN-05\_07242012

**Collection Date:** 07/24/12 09:16  
**DateReceived:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	48	mg/L	D	2		E300.0	08/03/12 22:50 / wc
Nitrogen, Nitrate+Nitrite as N	0.3	mg/L		0.1		E353.2	08/02/12 11:47 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-005  
**Client Sample ID:** TWN-01\_07242012

**Collection Date:** 07/24/12 10:14  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	17	mg/L		1		E300.0	08/06/12 23:09 / wc
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	08/02/12 11:50 / lr

**Lab ID:** C12080031-006  
**Client Sample ID:** TWN-10\_07252012

**Collection Date:** 07/25/12 07:50  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	33	mg/L	D	2		E300.0	08/06/12 23:27 / wc
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	08/02/12 11:52 / lr

**Lab ID:** C12080031-007  
**Client Sample ID:** TWN-04\_07252012

**Collection Date:** 07/25/12 06:52  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	25	mg/L		1		E300.0	08/06/12 23:44 / wc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	08/02/12 11:55 / lr

**Lab ID:** C12080031-008  
**Client Sample ID:** TWN-06\_07252012

**Collection Date:** 07/25/12 07:38  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	22	mg/L		1		E300.0	08/07/12 00:01 / wc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	08/02/12 12:02 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-009  
**Client Sample ID:** TWN-12\_07252012

**Collection Date:** 07/25/12 08:42  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	102	mg/L		1		E300.0	08/07/12 00:19 / wc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	08/02/12 12:10 / lr

**Lab ID:** C12080031-010  
**Client Sample ID:** TWN-07\_07262012

**Collection Date:** 07/26/12 06:47  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	6	mg/L		1		E300.0	08/07/12 00:36 / wc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	08/02/12 12:12 / lr

**Lab ID:** C12080031-011  
**Client Sample ID:** TWN-15\_07262012

**Collection Date:** 07/26/12 07:02  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	50	mg/L		1		E300.0	08/07/12 00:54 / wc
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	08/02/12 12:15 / lr

**Lab ID:** C12080031-012  
**Client Sample ID:** TWN-11\_07252012

**Collection Date:** 07/25/12 12:43  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	77	mg/L	D	2		E300.0	08/07/12 01:46 / wc
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	08/02/12 12:17 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-013  
**Client Sample ID:** TWN-16\_07252012

**Collection Date:** 07/25/12 13:42  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	33	mg/L		1		E300.0	08/07/12 02:38 / wc
Nitrogen, Nitrate+Nitrite as N	2.4	mg/L		0.1		E353.2	08/02/12 12:20 / lr

**Lab ID:** C12080031-014  
**Client Sample ID:** TWN-18\_07262012

**Collection Date:** 07/26/12 10:10  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	67	mg/L		1		E300.0	08/07/12 02:56 / wc
Nitrogen, Nitrate+Nitrite as N	2.3	mg/L		0.1		E353.2	08/02/12 12:22 / lr

**Lab ID:** C12080031-015  
**Client Sample ID:** TWN-14\_07272012

**Collection Date:** 07/27/12 07:00  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	27	mg/L		1		E300.0	08/07/12 03:13 / wc
Nitrogen, Nitrate+Nitrite as N	3.7	mg/L		0.1		E353.2	08/02/12 12:25 / lr

**Lab ID:** C12080031-016  
**Client Sample ID:** TWN-19\_07262012

**Collection Date:** 07/26/12 14:03  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	117	mg/L		1		E300.0	08/07/12 03:30 / wc
Nitrogen, Nitrate+Nitrite as N	7.5	mg/L	D	0.2		E353.2	08/02/12 12:27 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-017  
**Client Sample ID:** TWN-17\_07272012

**Collection Date:** 07/27/12 07:12  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	85	mg/L		1		E300.0	08/07/12 03:48 / wc
Nitrogen, Nitrate+Nitrite as N	9.5	mg/L	D	0.2		E353.2	08/02/12 12:30 / lr

**Lab ID:** C12080031-018  
**Client Sample ID:** TWN-09\_07312012

**Collection Date:** 07/31/12 07:07  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	215	mg/L	D	2		E300.0	08/07/12 04:05 / wc
Nitrogen, Nitrate+Nitrite as N	12.3	mg/L	D	0.5		E353.2	08/02/12 12:40 / lr

**Lab ID:** C12080031-019  
**Client Sample ID:** TWN-03\_07312012

**Collection Date:** 07/31/12 07:20  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	158	mg/L		1		E300.0	08/07/12 04:23 / wc
Nitrogen, Nitrate+Nitrite as N	27	mg/L	D	2		E353.2	08/02/12 12:47 / lr

**Lab ID:** C12080031-020  
**Client Sample ID:** TWN-02\_07312012

**Collection Date:** 07/31/12 07:31  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	93	mg/L	D	2		E300.0	08/07/12 04:40 / wc
Nitrogen, Nitrate+Nitrite as N	54	mg/L	D	5		E353.2	08/02/12 12:50 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-021  
**Client Sample ID:** Piez-01\_07272012

**Collection Date:** 07/27/12 08:05  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	56	mg/L		1		E300.0	08/07/12 04:58 / wc
Nitrogen, Nitrate+Nitrite as N	7.2	mg/L	D	0.5		E353.2	08/02/12 12:52 / lr

**Lab ID:** C12080031-022  
**Client Sample ID:** Piez-02\_07272012

**Collection Date:** 07/27/12 07:31  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	9	mg/L		1		E300.0	08/07/12 05:50 / wc
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	08/02/12 12:55 / lr

**Lab ID:** C12080031-023  
**Client Sample ID:** Piez-03\_07272012

**Collection Date:** 07/27/12 07:50  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	21	mg/L	D	2		E300.0	08/07/12 06:42 / wc
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	08/02/12 12:57 / lr

**Lab ID:** C12080031-024  
**Client Sample ID:** TWN-65\_07252012

**Collection Date:** 07/25/12 06:52  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	26	mg/L		1		E300.0	08/07/12 06:59 / wc
Nitrogen, Nitrate+Nitrite as N	1.5	mg/L		0.1		E353.2	08/02/12 13:00 / lr

**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:** 3rd Quarter Nitrate

**Report Date:** 08/13/12

**Lab ID:** C12080031-025  
**Client Sample ID:** TWN-70\_07272012

**Collection Date:** 07/27/12 07:00  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	27	mg/L		1		E300.0	08/07/12 07:17 / wc
Nitrogen, Nitrate+Nitrite as N	3.8	mg/L		0.1		E353.2	08/02/12 13:02 / lr

**Lab ID:** C12080031-026  
**Client Sample ID:** TWN-60\_07312012

**Collection Date:** 07/31/12 07:47  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	ND	mg/L		1		E300.0	08/07/12 07:34 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/02/12 13:05 / lr

**Lab ID:** C12080031-027  
**Client Sample ID:** TWN-09R\_07302012

**Collection Date:** 07/30/12 09:25  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Chloride	ND	mg/L		1		E300.0	08/07/12 07:52 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/02/12 13:07 / lr

**Lab ID:** C12080031-028  
**Client Sample ID:** Temp Blank

**Collection Date:** 07/31/12  
**Date Received:** 08/01/12  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Temperature	1.8	°C				E170.1	08/01/12 09:35 / 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

**Client:** Denison Mines USA Corp  
**Project:** 3rd Quarter Nitrate

**Report Date:** 08/13/12  
**Work Order:** C12080031

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E300.0</b>								Analytical Run: IC2-C_120803A		
<b>Sample ID: ICV</b> Initial Calibration Verification Standard 08/03/12 16:44										
Chloride		9.63	mg/L	1.0	96	90	110			
<b>Method: E300.0</b>								Batch: R162840		
<b>Sample ID: ICB</b> Method Blank Run: IC2-C_120803A 08/03/12 17:02										
Chloride		ND	mg/L	1.0						
<b>Sample ID: LFB</b> Laboratory Fortified Blank Run: IC2-C_120803A 08/03/12 17:19										
Chloride		9.69	mg/L	1.0	97	90	110			
<b>Sample ID: C12080031-002AMS</b> Sample Matrix Spike Run: IC2-C_120803A 08/03/12 21:58										
Chloride		101	mg/L	1.0	99	90	110			
<b>Sample ID: C12080031-002AMSD</b> Sample Matrix Spike Duplicate Run: IC2-C_120803A 08/03/12 22:15										
Chloride		101	mg/L	1.0	101	90	110	0.7	10	
<b>Method: E300.0</b>								Analytical Run: IC2-C_120806A		
<b>Sample ID: ICV-080612-10</b> Initial Calibration Verification Standard 08/06/12 16:46										
Chloride		9.97	mg/L	1.0	100	90	110			
<b>Method: E300.0</b>								Batch: R162970		
<b>Sample ID: ICB-080612-11</b> Method Blank Run: IC2-C_120806A 08/06/12 17:03										
Chloride		ND	mg/L	1.0						
<b>Sample ID: LFB-080612-12</b> Laboratory Fortified Blank Run: IC2-C_120806A 08/06/12 17:21										
Chloride		9.89	mg/L	1.0	98	90	110			
<b>Sample ID: C12080031-002AMS</b> Sample Matrix Spike Run: IC2-C_120806A 08/06/12 21:59										
Chloride		104	mg/L	1.0	111	90	110			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
<b>Sample ID: C12080031-002AMSD</b> Sample Matrix Spike Duplicate Run: IC2-C_120806A 08/06/12 22:17										
Chloride		103	mg/L	1.0	110	90	110	0.4	10	
<b>Sample ID: C12080110-001AMS</b> Sample Matrix Spike Run: IC2-C_120806A 08/07/12 15:24										
Chloride		34.0	mg/L	1.0	103	90	110			
<b>Sample ID: C12080110-001AMSD</b> Sample Matrix Spike Duplicate Run: IC2-C_120806A 08/07/12 15:41										
Chloride		34.4	mg/L	1.0	105	90	110	1.1	10	
<b>Sample ID: C12080160-004AMS</b> Sample Matrix Spike Run: IC2-C_120806A 08/07/12 23:32										
Chloride		183	mg/L	1.0	107	90	110			
<b>Sample ID: C12080160-004AMSD</b> Sample Matrix Spike Duplicate Run: IC2-C_120806A 08/07/12 23:49										
Chloride		184	mg/L	1.0	110	90	110	0.6	10	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Denison Mines USA Corp

**Report Date:** 08/13/12

**Project:** 3rd Quarter Nitrate

**Work Order:** C12080031

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E353.2										Batch: R162727
<b>Sample ID:</b> MBLK-1		Method Blank								Run: TECHNICON_120802A 08/02/12 11:20
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
<b>Sample ID:</b> LCS-2		Laboratory Control Sample								Run: TECHNICON_120802A 08/02/12 11:22
Nitrogen, Nitrate+Nitrite as N		2.55	mg/L	0.10	102	90	110			
<b>Sample ID:</b> LFB-3		Laboratory Fortified Blank								Run: TECHNICON_120802A 08/02/12 11:25
Nitrogen, Nitrate+Nitrite as N		2.03	mg/L	0.10	104	90	110			
<b>Sample ID:</b> C12080031-008BMS		Sample Matrix Spike								Run: TECHNICON_120802A 08/02/12 12:05
Nitrogen, Nitrate+Nitrite as N		3.48	mg/L	0.10	107	90	110			
<b>Sample ID:</b> C12080031-008BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_120802A 08/02/12 12:07
Nitrogen, Nitrate+Nitrite as N		3.42	mg/L	0.10	105	90	110	1.7	10	
<b>Sample ID:</b> C12080031-018BMS		Sample Matrix Spike								Run: TECHNICON_120802A 08/02/12 12:42
Nitrogen, Nitrate+Nitrite as N		22.9	mg/L	0.50	110	90	110			
<b>Sample ID:</b> C12080031-018BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_120802A 08/02/12 12:45
Nitrogen, Nitrate+Nitrite as N		22.8	mg/L	0.50	109	90	110	0.4	10	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Workorder Receipt Checklist

Denison Mines USA Corp

C12080031

Login completed by: Tracy Judge

Date Received: 8/1/2012

Reviewed by: BL2000\kschroeder

Received by: th

Reviewed Date: 8/2/2012

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?<br>(Exclude analyses that are considered field parameters<br>such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Container/Temp Blank temperature:   | 1.8°C On Ice                            |                             |  |
| 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:



# Chain of Custody and Analytical Request Record

**PLEASE PRINT (Provide as much information as possible.)**

Company Name: <u>Energy Fuels</u>	Project Name, PWS, Permit, Etc. <u>3<sup>rd</sup> Quarter Nitrate 2012</u>	Sample Origin State: <u>UT</u>	EPA/State Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <u>PO BOX 809</u> <u>Blanding UT 84511</u>	Contact Name: <u>Garrin Palmer</u>	Phone/Fax: <u>435 678 2221</u>	Email: <u>Tanner Holiday</u>
Invoice Address: <u>Same</u>	Invoice Contact & Phone: <u>David Turk</u>	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:  <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <b>Format:</b> _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC	ANALYSIS REQUESTED  Number of Containers: _____ Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water	SEE ATTACHED  Standard Turnaround (TAT)	R U S H	Contact ELI prior to <b>RUSH</b> sample submittal for charges and scheduling - See Instruction Page	Shipped by: <u>Fedex-ES</u> Cooler ID(s): <u>Client</u>
				Comments:	Receipt Temp <u>1.8 °C</u> On Ice: <input checked="" type="checkbox"/> N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote #	LABORATORY USE ONLY																
<sup>1</sup> TWN-13R_07242012	7/24/12	0720	2-W	X	C3317																
<sup>2</sup> TWN-13_07242012	7/24/12	0750	2-W	X																	
<sup>3</sup> TWN-08_07242012	7/24/12	0830	2-W	X																	
<sup>4</sup> TWN-05_07242012	7/24/12	0916	2-W	X																	
<sup>5</sup> TWN-01_07242012	7/24/12	1014	2-W	X																	
<sup>6</sup> TWN-10_07252012	7/25/12	0750	2-W	X																	
<sup>7</sup> TWN-04_07252012	7/25/12	0652	2-W	X																	
<sup>8</sup> TWN-06_07252012	7/25/12	0738	2-W	X																	
<sup>9</sup> TWN-12_07252012	7/25/12	0842	2-W	X																	
<sup>10</sup> TWN-07_07262012	7/26/12	0647	2-W	X																	

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <u>Tanner Holiday</u>	Date/Time: <u>7/31/2012 1100</u>	Signature: <u>Tanner Holiday</u>	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:	Date/Time: <u>8-1-12 / 935</u>	Signature: <u>Tanner Holiday</u>	

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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 State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:	Contact Name: <i>Same as Page 1</i>	Phone/Fax:	Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats: <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC			ANALYSIS REQUESTED Number of Containers: _____ Sample Type: A W S V B O D W Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water Quote # <i>C3317</i>	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>FedEx-EX</i> Cooler ID(s): <i>Client</i>																																																																																																																																																																																																				
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)      Collection Date      Collection Time      MATRIX		Comments:				Receipt Temp: <i>1.8 °C</i> On Ice: <input checked="" type="radio"/> Y <input type="radio"/> N Custody Seal On Bottle: <input checked="" type="radio"/> Y <input type="radio"/> N On Cooler: <input checked="" type="radio"/> Y <input type="radio"/> N Intact Signature Match: <input checked="" type="radio"/> Y <input type="radio"/> N																																																																																																																																																																																																					
<table border="1"> <tr> <td>1</td> <td>TWN-15-07262012</td> <td>7/26/12</td> <td>0702</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>2</td> <td>TWN-11-07252012</td> <td>7/25/12</td> <td>1243</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>3</td> <td>TWN-16-07252012</td> <td>7/25/12</td> <td>1342</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>4</td> <td>TWN-18-07262012</td> <td>7/26/12</td> <td>1010</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>5</td> <td>TWN-14-07272012</td> <td>7/27/12</td> <td>0700</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>6</td> <td>TWN-19-07262012</td> <td>7/26/12</td> <td>1403</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>7</td> <td>TWN-17-07272012</td> <td>7/27/12</td> <td>0712</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>8</td> <td>TWN-09-07312012</td> <td>7/31/12</td> <td>0707</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>9</td> <td>TWN-03-07312012</td> <td>7/31/12</td> <td>0720</td> <td>2-W</td> <td>X</td> <td></td> </tr> <tr> <td>10</td> <td>TWN-02-07312012</td> <td>7/31/12</td> <td>0731</td> <td>2-W</td> <td>X</td> <td></td> </tr> </table>			1	TWN-15-07262012	7/26/12	0702	2-W	X															2	TWN-11-07252012	7/25/12	1243	2-W	X															3	TWN-16-07252012	7/25/12	1342	2-W	X															4	TWN-18-07262012	7/26/12	1010	2-W	X															5	TWN-14-07272012	7/27/12	0700	2-W	X															6	TWN-19-07262012	7/26/12	1403	2-W	X															7	TWN-17-07272012	7/27/12	0712	2-W	X															8	TWN-09-07312012	7/31/12	0707	2-W	X															9	TWN-03-07312012	7/31/12	0720	2-W	X															10	TWN-02-07312012	7/31/12	0731	2-W	X															LABORATORY USE ONLY <i>C12080031</i>
1	TWN-15-07262012	7/26/12	0702	2-W	X																																																																																																																																																																																																						
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<b>Custody Record MUST be Signed</b>	Relinquished by (print): <i>Tanner Holliday</i> Date/Time: <i>7/31/2012 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 Laboratory: <i>8-1-12/935</i> Date/Time: _____      Signature: <i>Tanner Holliday</i>

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Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:	Contact Name: <i>Same as Page 1</i>	Phone/Fax:	Email:
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:				ANALYSIS REQUESTED												Shipped by: <b>FedEx-EX</b> Cooler ID(s): <i>Client</i> Receipt Temp: <i>1.8</i> °C On Ice: <input checked="" type="radio"/> Y <input type="radio"/> N Custody Seal: On Bottle <input type="checkbox"/> Y <input type="checkbox"/> N, On Cooler <input type="checkbox"/> Y <input type="checkbox"/> N Intact: <input type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input type="checkbox"/> Y <input type="checkbox"/> N		
<input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <b>Format:</b> _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC				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"/> D <input type="checkbox"/> W <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 Quote # <i>C3317</i>													SEE ATTACHED Standard Turnaround (TAT)	<b>R U S H</b>
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX															
1 <i>Picz-01-07272012</i>	<i>7/27/12</i>	<i>0805</i>	<i>2-W</i>	<i>X</i>														
2 <i>Picz-02-07272012</i>	<i>7/27/12</i>	<i>0731</i>	<i>2-W</i>	<i>X</i>														
3 <i>Picz-03-07272012</i>	<i>7/27/12</i>	<i>0750</i>	<i>2-W</i>	<i>X</i>														
4 <i>TWN-65-07252012</i>	<i>7/25/12</i>	<i>0652</i>	<i>2-W</i>	<i>X</i>														
5 <i>TWN-70-07272012</i>	<i>7/27/12</i>	<i>0700</i>	<i>2-W</i>	<i>X</i>														
6 <i>TWN-60-07312012</i>	<i>7/31/12</i>	<i>0747</i>	<i>2-W</i>	<i>X</i>														
7 <i>TWN-09R-07302012</i>	<i>7/30/12</i>	<i>0925</i>	<i>2-W</i>	<i>X</i>														
8 <i>Temp Blank</i>	<i>7/31/12</i>																	
9																		
10																		

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <i>Tanner Holliday</i> Date/Time: <i>7/31/2012 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 Laboratory: _____      Date/Time: <i>8-1-12/935</i> Signature: <i>Jim Holliday</i>

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LABORATORY USE ONLY

*C12080031*

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		--		2273.0		NC	8.80		NC	17.01		NC	171		NC	3.9		NC
Piezometer 2		--		242.0		NC	7.75		NC	16.21		NC	263		NC	3.4		NC
Piezometer 3		--		3132.0		NC	11.93		NC	16.01		NC	204		NC	0.7		NC
TWN-1	78.42	88.00	OK	803.0	803.0	0.00	7.17	7.18	0.14	15.42	15.41	0.06	278	271	2.55	37.4	37.0	1.08
TWN-2	93.04	60.50	Pumped Dry	2841.0	2817.0	0.85	6.71	6.74	0.45	14.84	14.88	0.27	287	276	3.91	1.0	1.0	0.00
TWN-3	80.96	55.00	Pumped Dry	2508.0	2474.0	1.36	7.07	7.08	0.14	14.88	15.08	1.34	307	298	2.98	0.0	0.0	0.00
TWN-4	108.78	121.00	OK	1026.0	1025.0	0.10	7.13	7.13	0.00	14.67	14.68	0.07	399	397	0.50	55.0	56.0	1.80
TWN-5	105.06	110.00	OK	3050.0	3047.0	0.10	6.70	6.71	0.15	15.01	15.01	0.00	313	307	1.94	8.7	8.6	1.16
TWN-6	71.88	77.00	OK	1520.0	1517.0	0.20	6.89	6.88	0.15	14.87	14.87	0.00	386	382	1.04	13.3	13.1	1.52
TWN-7	22.20	14.50	Pumped Dry	1229.0	1261.0	2.57	7.44	7.42	0.27	15.80	15.76	0.25	352	340	3.47	16.0	15.5	3.17
TWN-8	109.04	110.00	OK	2370.0	2370.0	0.00	7.10	7.05	0.71	15.00	14.99	0.07	94	94	0.00	4.7	4.8	2.11
TWN-9	44.62	33.00	Pumped Dry	2576.0	2560.0	0.62	7.08	7.00	1.14	15.96	16.04	0.50	330	320	3.08	1.8	1.7	5.71
TWN-10	31.52	27.50	Pumped Dry	3657.0	3589.0	1.88	3.44	3.51	2.01	16.10	16.11	0.06	604	610	0.99	2.6	2.5	3.92
TWN-11	94.68	99.00	OK	2769.0	2769.0	0.00	6.56	6.60	0.61	15.33	15.28	0.33	397	388	2.29	6.0	5.8	3.39
TWN-12	106.96	110.00	OK	2451.0	2445.0	0.25	7.07	7.10	0.42	14.90	14.90	0.00	272	270	0.74	58.0	59.0	1.71
TWN-13	96.70	99.00	OK	1195.0	1195.0	0.00	7.55	7.55	0.00	15.29	15.30	0.07	336	323	3.95	15.5	15.7	1.28
TWN-14	94.60	55.00	Pumped Dry	1216.0	1221.0	0.41	7.40	7.44	0.54	15.86	15.84	0.13	364	349	4.21	3.9	4.0	2.53
TWN-15	82.34	66.00	Pumped Dry	1915.0	1900.0	0.79	6.95	6.86	1.30	14.80	14.86	0.40	304	291	4.37	0.0	0.0	0.00
TWN-16	68.30	77.00	OK	1848.0	1852.0	0.22	6.69	6.69	0.00	14.89	14.88	0.07	426	414	2.86	6.5	6.5	0.00
TWN-17	99.32	66.00	Pumped Dry	1141.0	1151.0	0.87	7.53	7.55	0.27	14.76	14.81	0.34	297	287	3.42	2.9	3.5	18.75
TWN-18	113.80	121.00	OK	2167.0	2169.0	0.09	6.87	6.87	0.00	14.95	14.95	0.00	303	298	1.66	58.1	59.5	2.38
TWN-19	75.16	77.00	OK	1966.0	1970.0	0.20	7.07	7.07	0.00	15.65	15.67	0.13	303	300	1.00	12.2	12.5	2.43

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

TWN-2, TWN-3, TWN-7, TWN-9, TWN-10, TWN-14, TWN-15, and TWN-17 were pumped dry and sampled after recovery.

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.

RPD >10%. Per the revised QAP Revision 7.2, Attachment 2-3, when a well is purged to dryness, only pH, temperature and specific conductance parameters are required to be within 10% RPD. Redox potential and turbidity parameters are measured for information purposes only and as such are not required to meet the 10% RPD criteria used for pH, specific conductance and temperature.

H-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
PIEZ-01	Chloride	7/27/2012	8/7/2012	11	28	OK
PIEZ-01	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK
PIEZ-02	Chloride	7/27/2012	8/7/2012	11	28	OK
PIEZ-02	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK
PIEZ-03	Chloride	7/27/2012	8/7/2012	11	28	OK
PIEZ-03	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK
TWN-01	Chloride	7/24/2012	8/6/2012	13	28	OK
TWN-01	Nitrate+Nitrite as N	7/24/2012	8/2/2012	9	28	OK
TWN-02	Chloride	7/31/2012	8/7/2012	7	28	OK
TWN-02	Nitrate+Nitrite as N	7/31/2012	8/2/2012	2	28	OK
TWN-03	Chloride	7/31/2012	8/7/2012	7	28	OK
TWN-03	Nitrate+Nitrite as N	7/31/2012	8/2/2012	2	28	OK
TWN-04	Chloride	7/25/2012	8/6/2012	12	28	OK
TWN-04	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-05	Chloride	7/24/2012	8/3/2012	10	28	OK
TWN-05	Nitrate+Nitrite as N	7/24/2012	8/2/2012	9	28	OK
TWN-06	Chloride	7/25/2012	8/7/2012	13	28	OK
TWN-06	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-07	Chloride	7/26/2012	8/7/2012	12	28	OK
TWN-07	Nitrate+Nitrite as N	7/26/2012	8/2/2012	7	28	OK
TWN-08	Chloride	7/24/2012	8/6/2012	13	28	OK
TWN-08	Nitrate+Nitrite as N	7/24/2012	8/2/2012	9	28	OK
TWN-09	Chloride	7/31/2012	8/7/2012	7	28	OK
TWN-09	Nitrate+Nitrite as N	7/31/2012	8/2/2012	2	28	OK
TWN-09R	Chloride	7/30/2012	8/7/2012	8	28	OK
TWN-09R	Nitrate+Nitrite as N	7/30/2012	8/2/2012	3	28	OK
TWN-10	Chloride	7/25/2012	8/6/2012	12	28	OK
TWN-10	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-11	Chloride	7/25/2012	8/7/2012	13	28	OK
TWN-11	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-12	Chloride	7/25/2012	8/7/2012	13	28	OK
TWN-12	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-13	Chloride	7/24/2012	8/6/2012	13	28	OK
TWN-13	Nitrate+Nitrite as N	7/24/2012	8/2/2012	9	28	OK
TWN-13R	Chloride	7/24/2012	8/3/2012	10	28	OK
TWN-13R	Nitrate+Nitrite as N	7/24/2012	8/2/2012	9	28	OK
TWN-14	Chloride	7/27/2012	8/7/2012	11	28	OK
TWN-14	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK
TWN-15	Chloride	7/26/2012	8/7/2012	12	28	OK
TWN-15	Nitrate+Nitrite as N	7/26/2012	8/2/2012	7	28	OK
TWN-16	Chloride	7/25/2012	8/7/2012	13	28	OK
TWN-16	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-17	Chloride	7/27/2012	8/7/2012	11	28	OK
TWN-17	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK
TWN-18	Chloride	7/26/2012	8/7/2012	12	28	OK
TWN-18	Nitrate+Nitrite as N	7/26/2012	8/2/2012	7	28	OK
TWN-19	Chloride	7/26/2012	8/7/2012	12	28	OK
TWN-19	Nitrate+Nitrite as N	7/26/2012	8/2/2012	7	28	OK
TWN-60	Chloride	7/31/2012	8/7/2012	7	28	OK
TWN-60	Nitrate+Nitrite as N	7/31/2012	8/2/2012	2	28	OK
TWN-65	Chloride	7/25/2012	8/7/2012	13	28	OK
TWN-65	Nitrate+Nitrite as N	7/25/2012	8/2/2012	8	28	OK
TWN-70	Chloride	7/27/2012	8/7/2012	11	28	OK
TWN-70	Nitrate+Nitrite as N	7/27/2012	8/2/2012	6	28	OK

H-3: Analytical Method Check

Parameter	Method	Method Used by Lab
Nitrate	E353.1 or E353.2	E353.2
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0

Both Nitrate and Chloride were analyzed with the correct analytical method.

H-4 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
PIEZ-01	Chloride	1	mg/L		1	mg/L	OK
PIEZ-01	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
PIEZ-02	Chloride	1	mg/L		1	mg/L	OK
PIEZ-02	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
PIEZ-03	Chloride	2	mg/L	D	1	mg/L	OK
PIEZ-03	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-01	Chloride	1	mg/L		1	mg/L	OK
TWN-01	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-02	Chloride	2	mg/L	D	1	mg/L	OK
TWN-02	Nitrate+Nitrite as N	5	ug/L	D	0.1	ug/L	OK
TWN-03	Chloride	1	mg/L		1	mg/L	OK
TWN-03	Nitrate+Nitrite as N	2	ug/L	D	0.1	ug/L	OK
TWN-04	Chloride	1	mg/L		1	mg/L	OK
TWN-04	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-05	Chloride	2	mg/L	D	1	mg/L	OK
TWN-05	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-06	Chloride	1	mg/L		1	mg/L	OK
TWN-06	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-07	Chloride	1	mg/L		1	mg/L	OK
TWN-07	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-08	Chloride	1	mg/L		1	mg/L	OK
TWN-08	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TWN-09	Chloride	2	mg/L	D	1	mg/L	OK
TWN-09	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TWN-09	Chloride	1	mg/L	U	1	mg/L	OK
TWN-09	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TWN-10	Chloride	2	mg/L	D	1	mg/L	OK
TWN-10	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-11	Chloride	2	mg/L	D	1	mg/L	OK
TWN-11	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-12	Chloride	1	mg/L		1	mg/L	OK
TWN-12	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-13	Chloride	1	mg/L		1	mg/L	OK
TWN-13	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-13	Chloride	1	mg/L	U	1	mg/L	OK
TWN-13	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TWN-14	Chloride	1	mg/L		1	mg/L	OK
TWN-14	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-15	Chloride	1	mg/L		1	mg/L	OK
TWN-15	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-16	Chloride	1	mg/L		1	mg/L	OK
TWN-16	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-17	Chloride	1	mg/L		1	mg/L	OK
TWN-17	Nitrate+Nitrite as N	0.2	ug/L	D	0.1	ug/L	OK
TWN-18	Chloride	1	mg/L		1	mg/L	OK
TWN-18	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-19	Chloride	1	mg/L		1	mg/L	OK
TWN-19	Nitrate+Nitrite as N	0.2	ug/L	D	0.1	ug/L	OK
TWN-60	Chloride	1	mg/L	U	1	mg/L	OK
TWN-60	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TWN-65	Chloride	1	mg/L		1	mg/L	OK
TWN-65	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TWN-70	Chloride	1	mg/L		1	mg/L	OK
TWN-70	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK

H-5 QA/QC Evaluation for Sample Duplicates

<b>Constituent</b>	<b>TWN-14</b>	<b>TWN-70</b>	<b>%RPD</b>
Chloride	27	27	0.00
Nitrogen	3.7	3.8	2.67

<b>Constituent</b>	<b>TWN-04</b>	<b>TWN-65</b>	<b>%RPD</b>
Chloride	25	26	3.92
Nitrogen	1.4	1.5	6.90

H-6 QC Control Limits for Analysis and Blanks

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
C12080031	TWN-13	Chloride	111	110	90 - 110	0.4

H-7 Receipt Temperature Evaluation

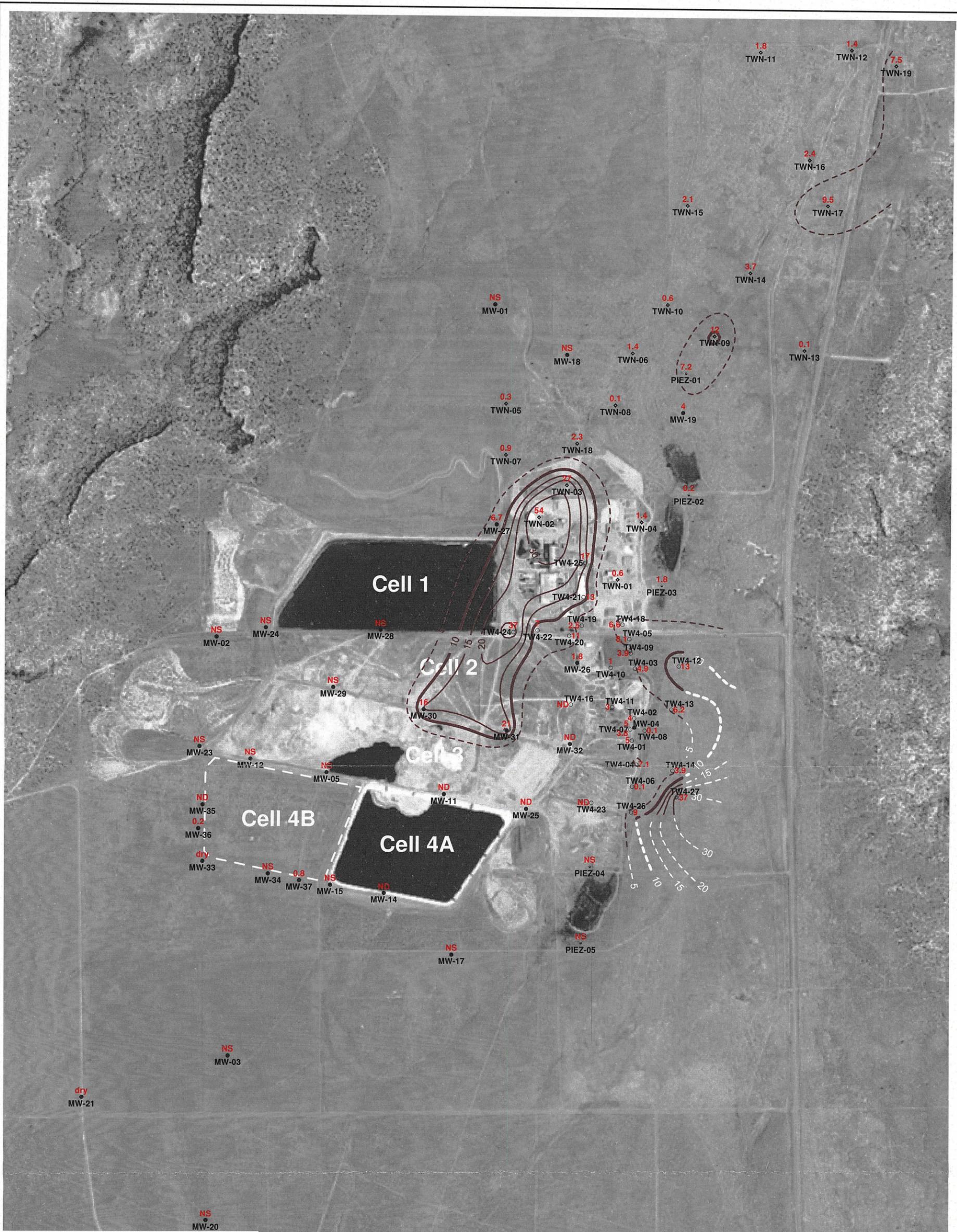
Sample Batch	Wells in Batch	Temperature
C12080031	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-5, TWN-6, TWN-7, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-13R, TWN-14, TWN-15, TWN-15R, TWN-16, TWN-17, TWN-18, TWN-19, TWN-60, TWN-65, TWN-70	1.8 °C

## H-8 Rinsate Evaluation

All Rinsate and DI Blank samples were non-detect for the 3rd quarter of 2012.

Tab I

Kriged Current Quarter Isoconcentration Maps



**EXPLANATION**

NS = not sampled; ND = not detected

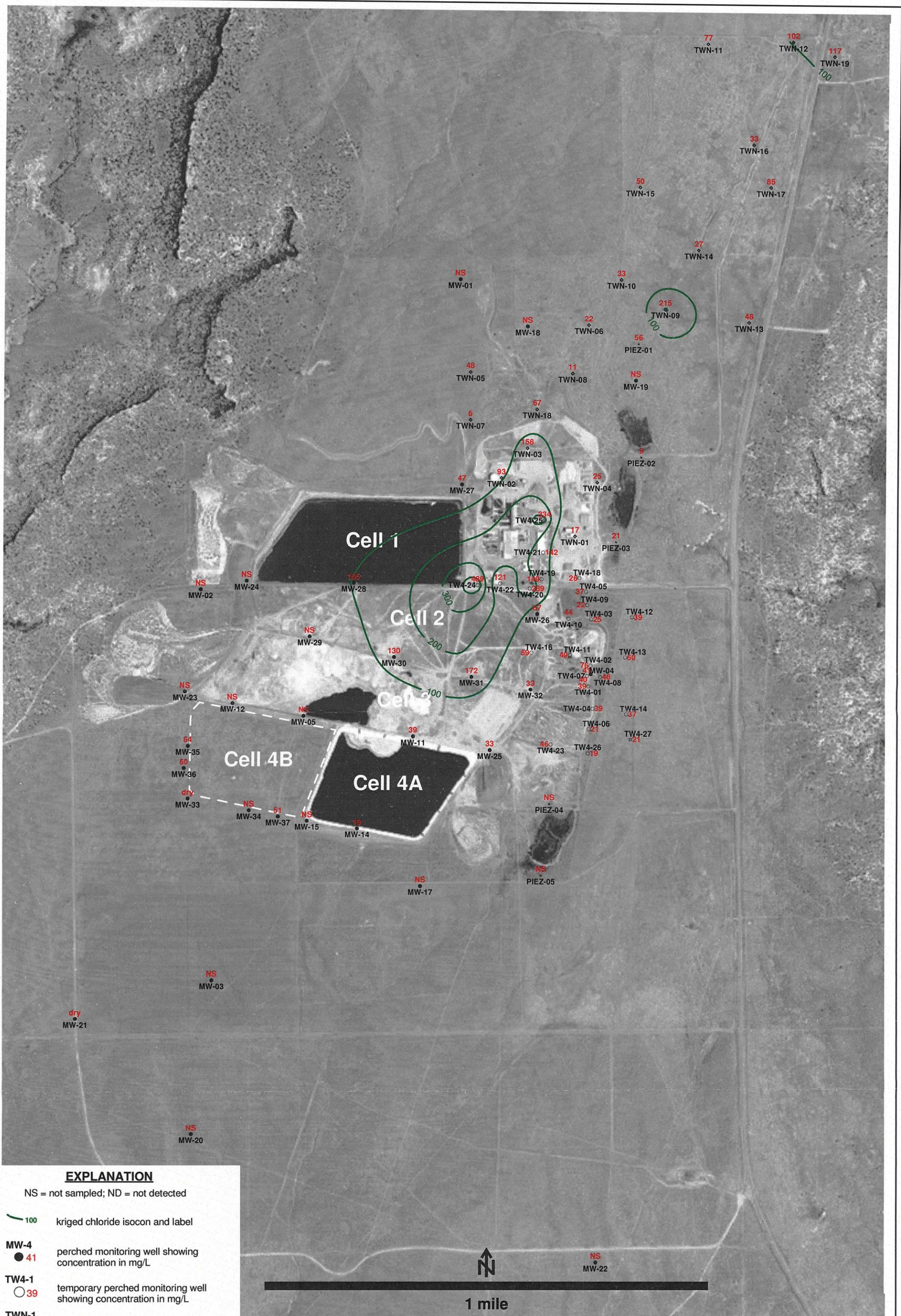
- 10 kriged nitrate isocon and label
- 10 kriged nitrate isocon and label (extent uncertain)
- MW-4 perched monitoring well showing concentration in mg/L
- TW4-1 temporary perched monitoring well showing concentration in mg/L
- TWN-1 temporary perched nitrate monitoring well showing concentration in 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 3rd QUARTER, 2012 NITRATE (mg/L)  
(NITRATE + NITRITE AS N)  
WHITE MESA SITE**

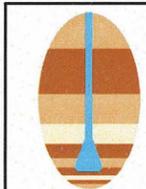
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov12/nitrate/Unt0912.srf	I - 1



**EXPLANATION**

NS = not sampled; ND = not detected

-  100 kriged chloride isocon and label
-  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 3rd QUARTER, 2012 CHLORIDE (mg/L)  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:\718000\nov12\chloride\Ucl0912.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
4/18/2012	0.6	17
7/24/2012	0.6	17

## 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
4/20/2012	48	103
7/31/2012	54	93

## 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
4/20/2012	24	152
7/31/2012	27	158

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
4/18/2012	1.1	24
7/25/2012	1.4	25

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
4/18/2012	0.3	39
7/24/2012	0.3	48

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
4/18/2012	1.1	22
7/25/2012	1.4	22

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
4/20/2012	1.2	6
7/26/2012	0.9	6

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
4/18/2012	0	15	Nitrate is ND
7/24/2012	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
4/20/2012	10.6	209
7/31/2012	12.3	215

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
4/19/2012	0.9	28
7/25/2012	0.6	33

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
4/19/2012	1.6	71
7/25/2012	1.8	77

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
4/18/2012	1.2	106
7/25/2012	1.4	102

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
4/18/2012	0	53	Nitrate ND
7/24/2012	0.1	48	

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
4/20/2012	3.4	27
7/27/2012	3.7	27

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
4/20/2012	1.6	46
7/26/2012	2.1	50

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
4/19/2012	2	50
7/25/2012	2.4	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
4/20/2012	9.1	80
7/27/2012	9.5	85

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
4/19/2012	2.1	64
7/26/2012	2.3	67

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
4/19/2012	6.8	117
7/26/2012	7.5	117

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
4/20/2012	6.6	58
7/27/2012	7.2	56

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
4/20/2012	0.2	8
7/27/2012	0.2	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
4/20/2012	1.7	53
7/27/2012	1.8	21

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

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

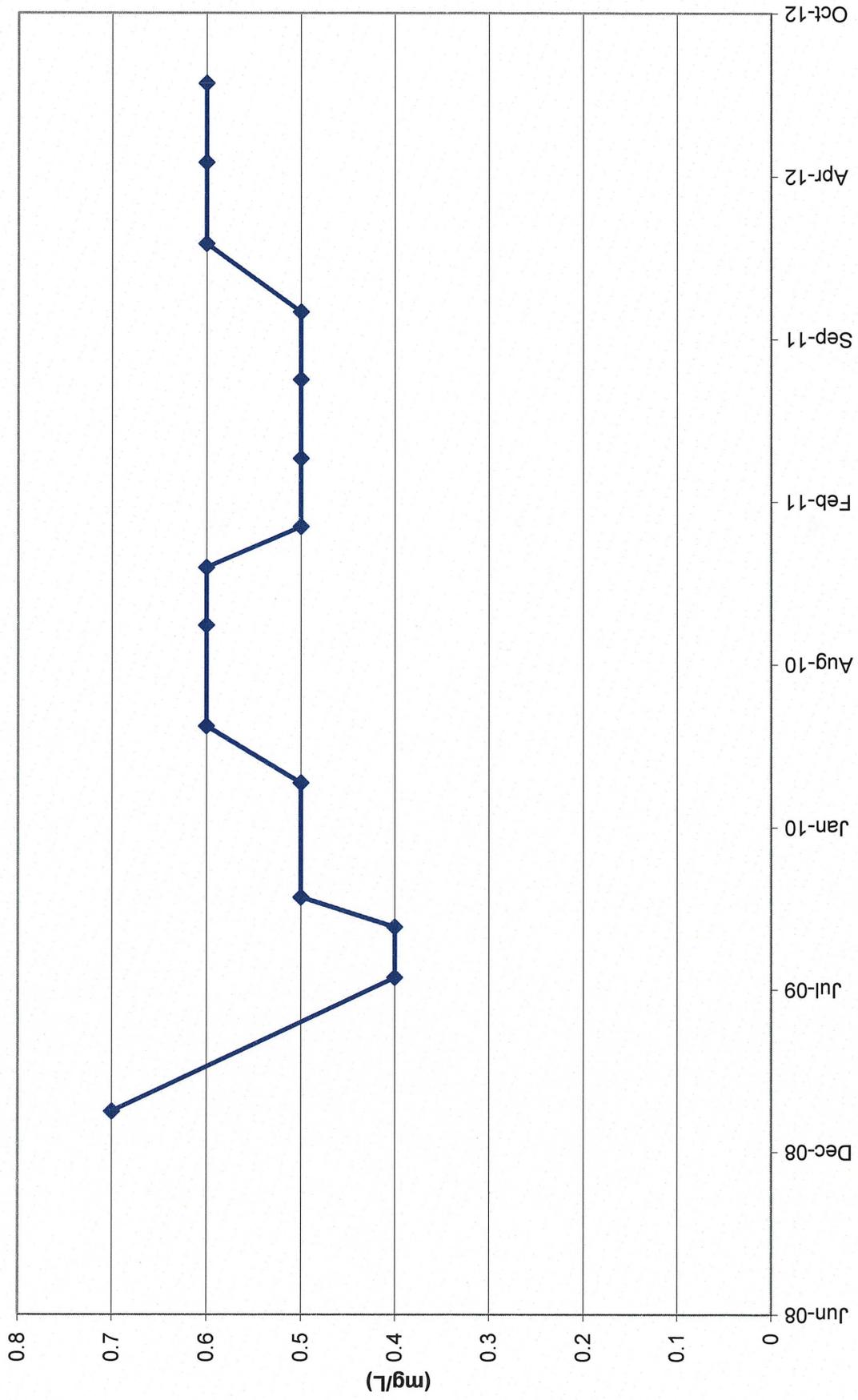
Frog Pond

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
10/14/09	0	0	Nitrate ND

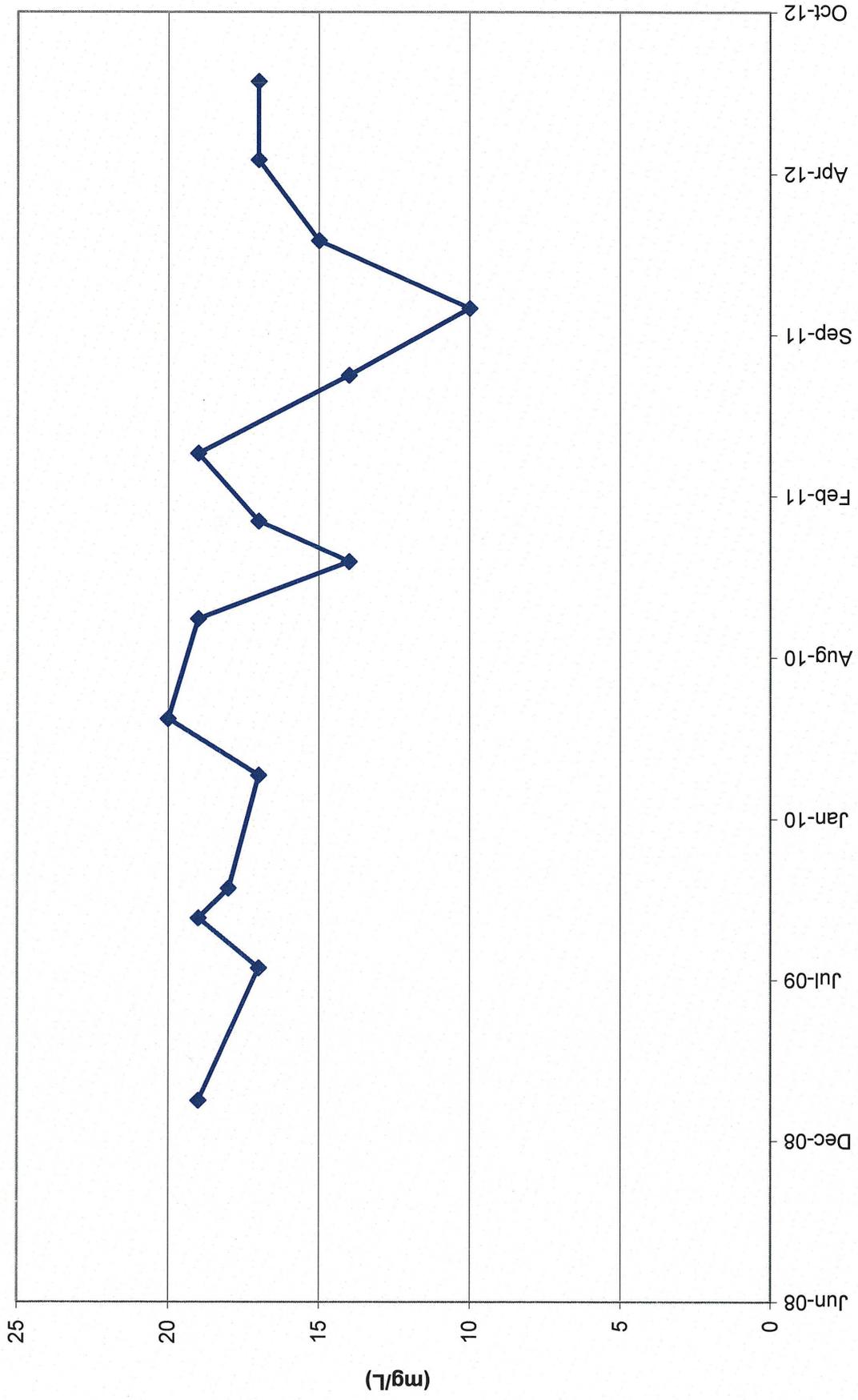
Tab K

Concentration Trend Graphs

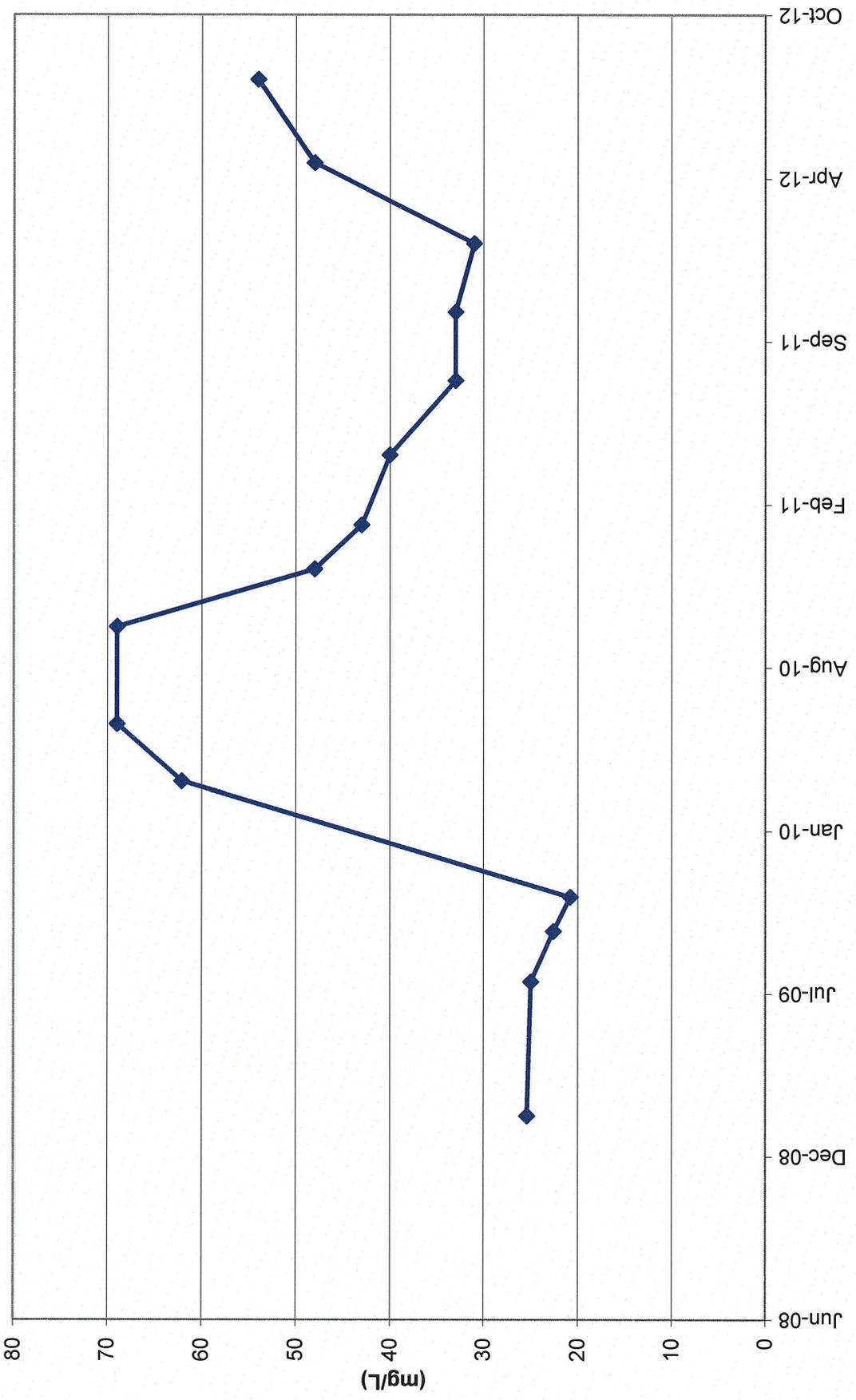
# TWN-1 Nitrate Concentrations



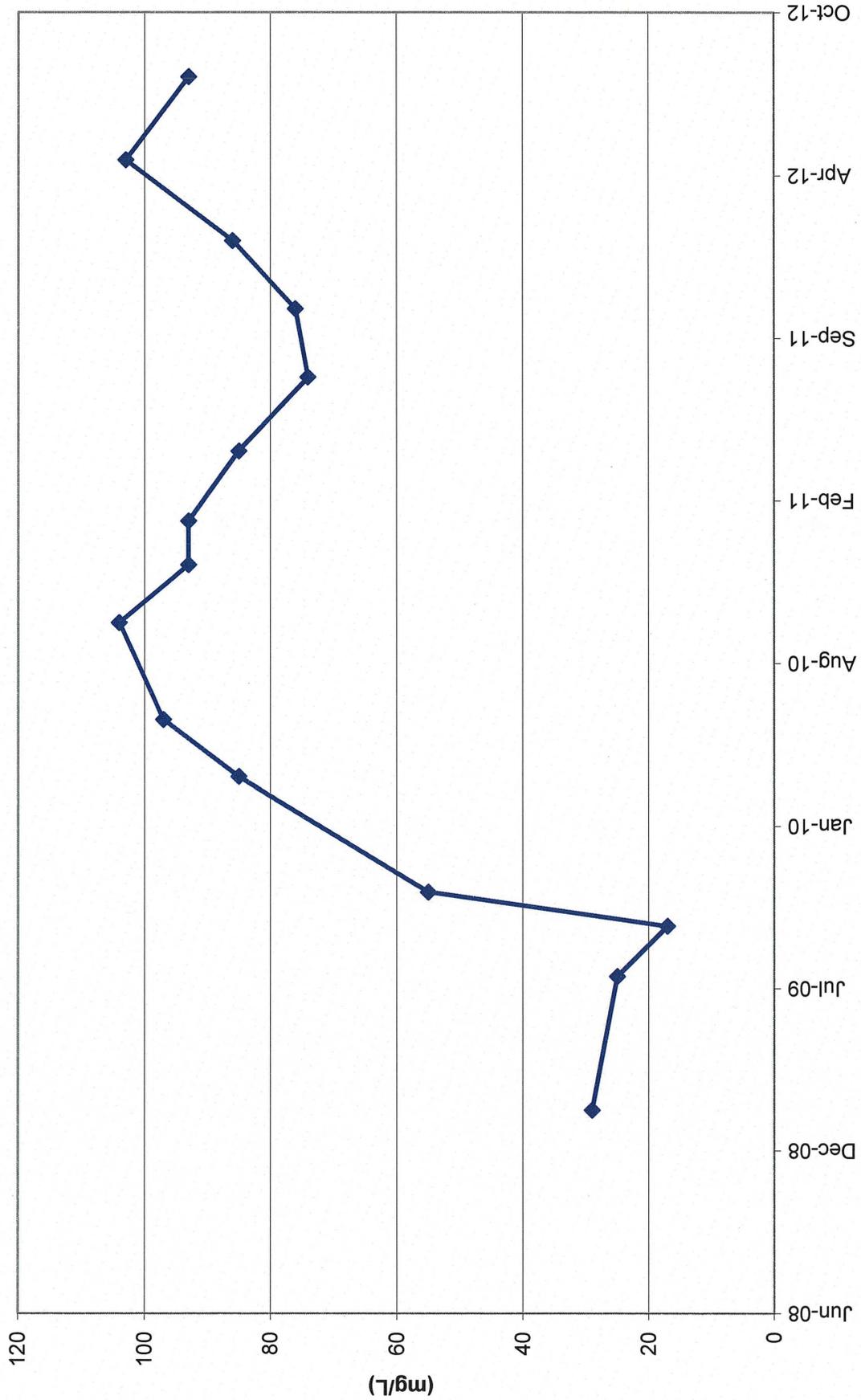
# TWN-1 Chloride Concentrations



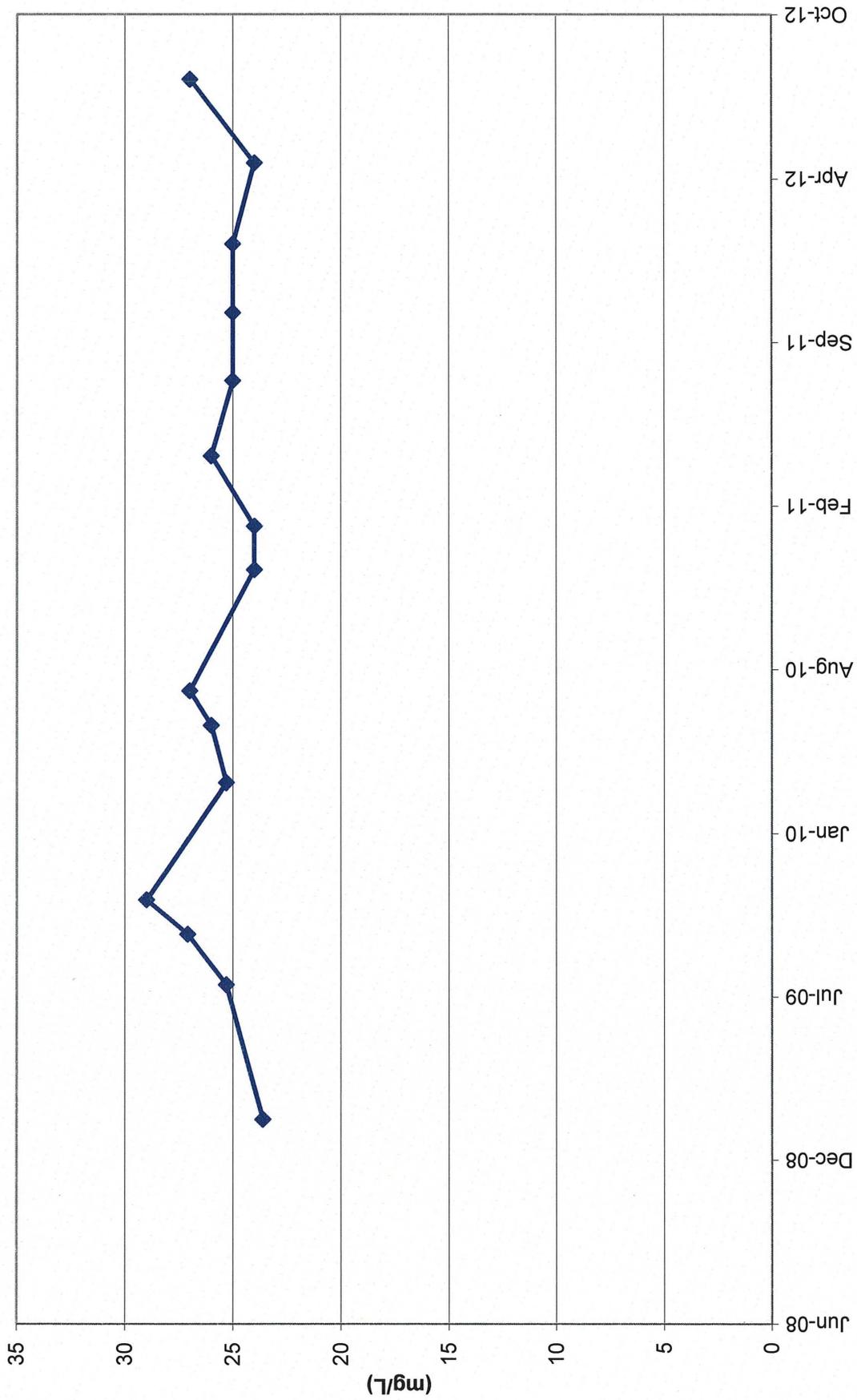
TWN-2 Nitrate Concentrations



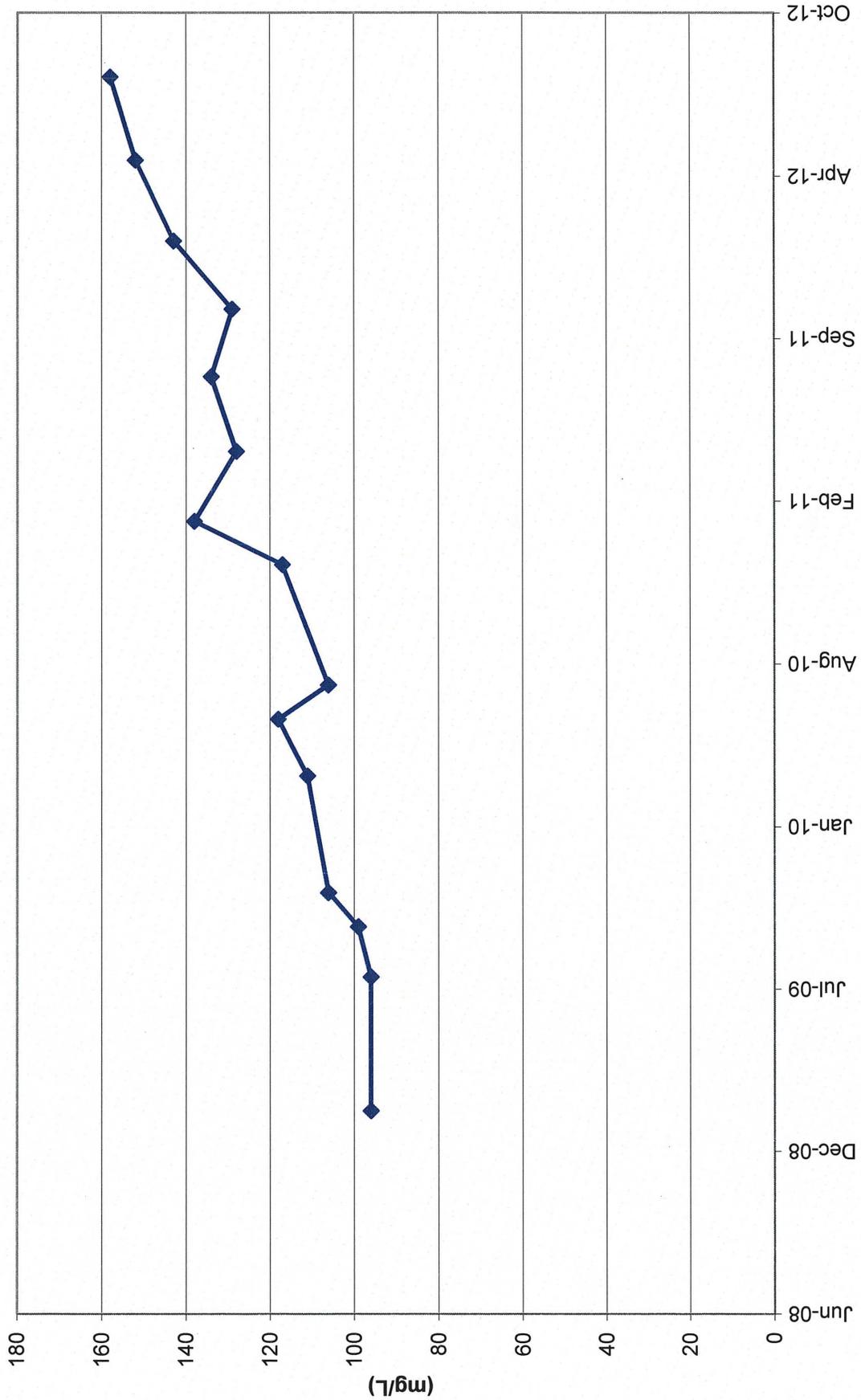
# TWN-2 Chloride Concentrations



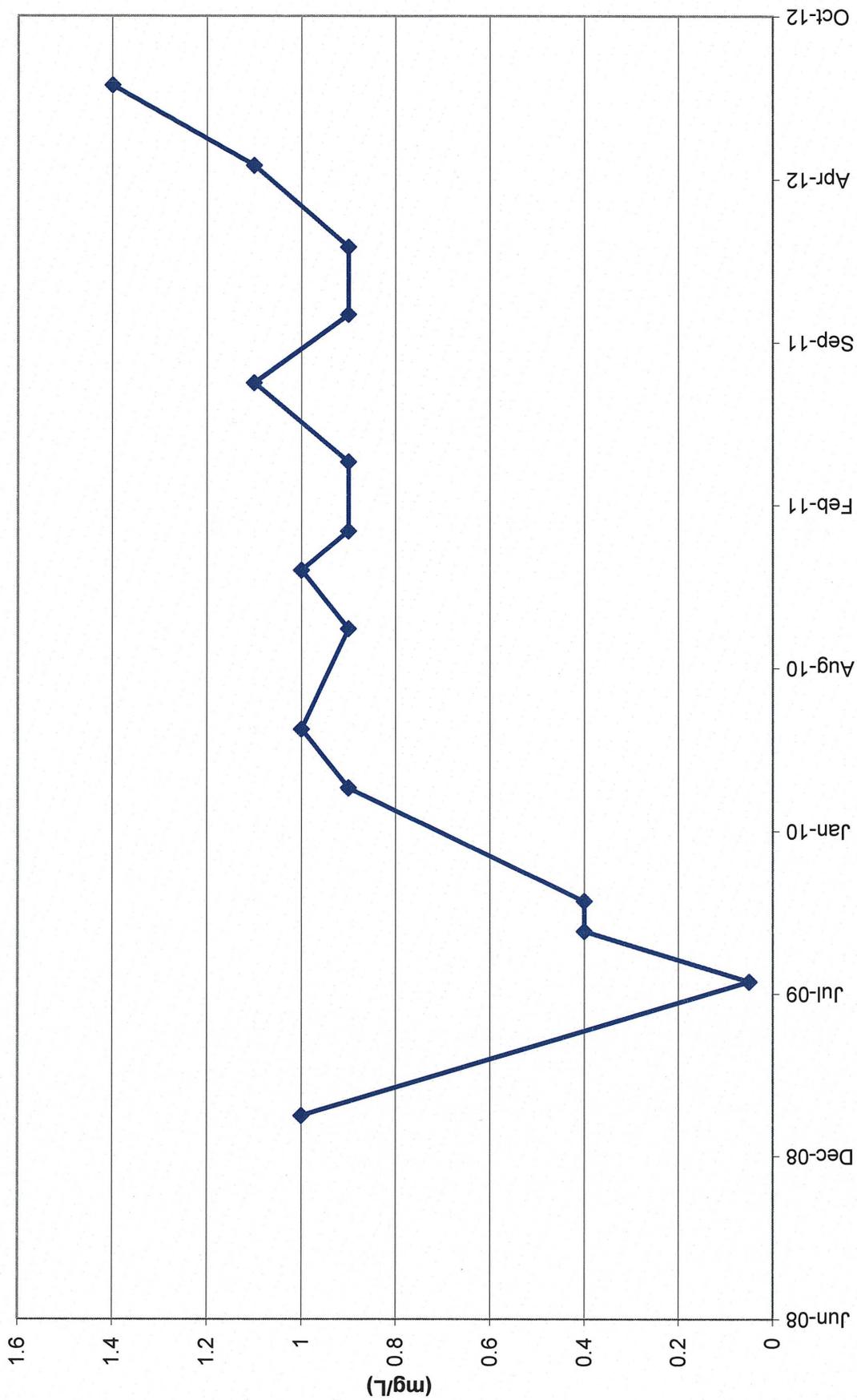
# TWN-3 Nitrate Concentrations



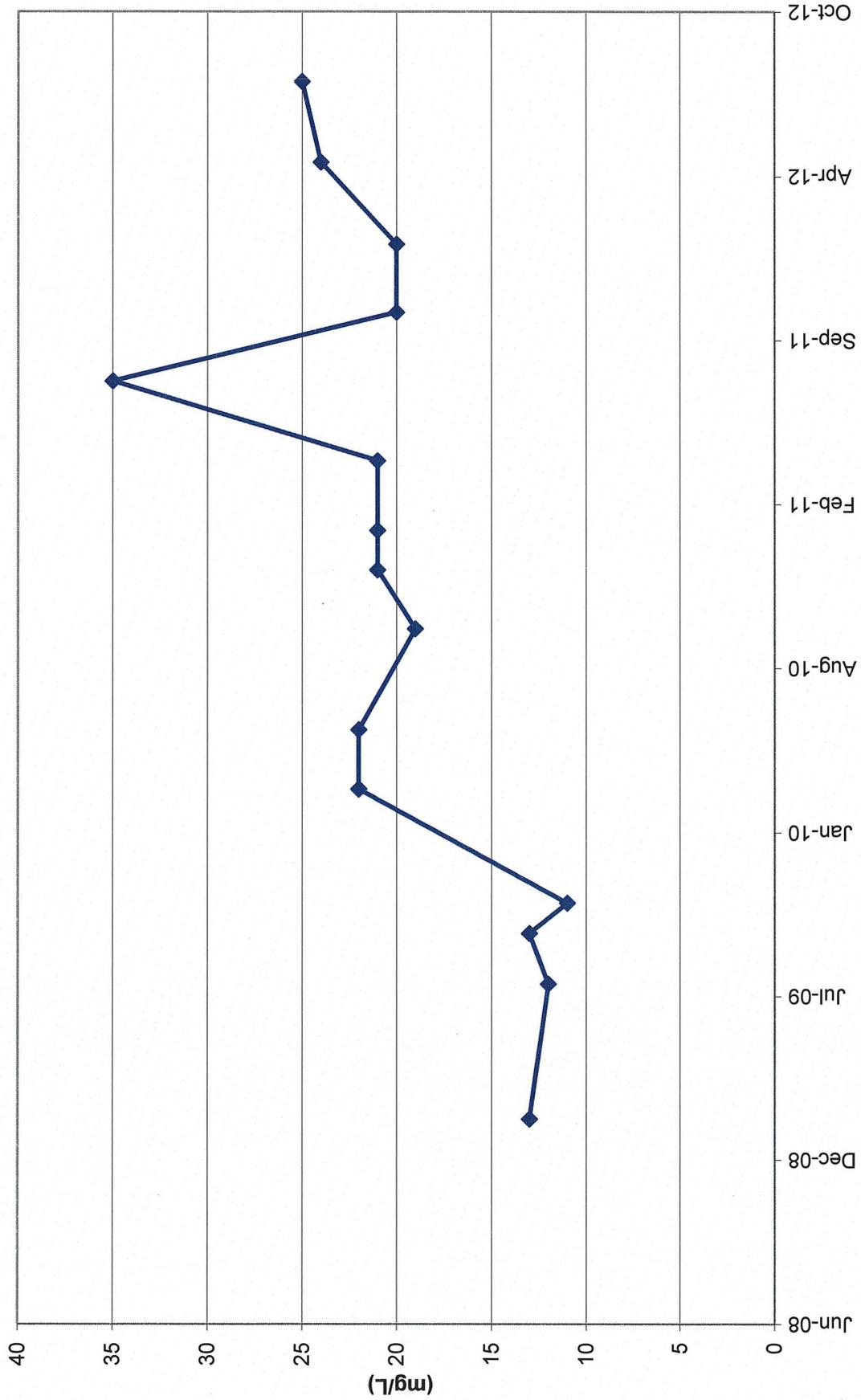
# TWN-3 Chloride Concentrations



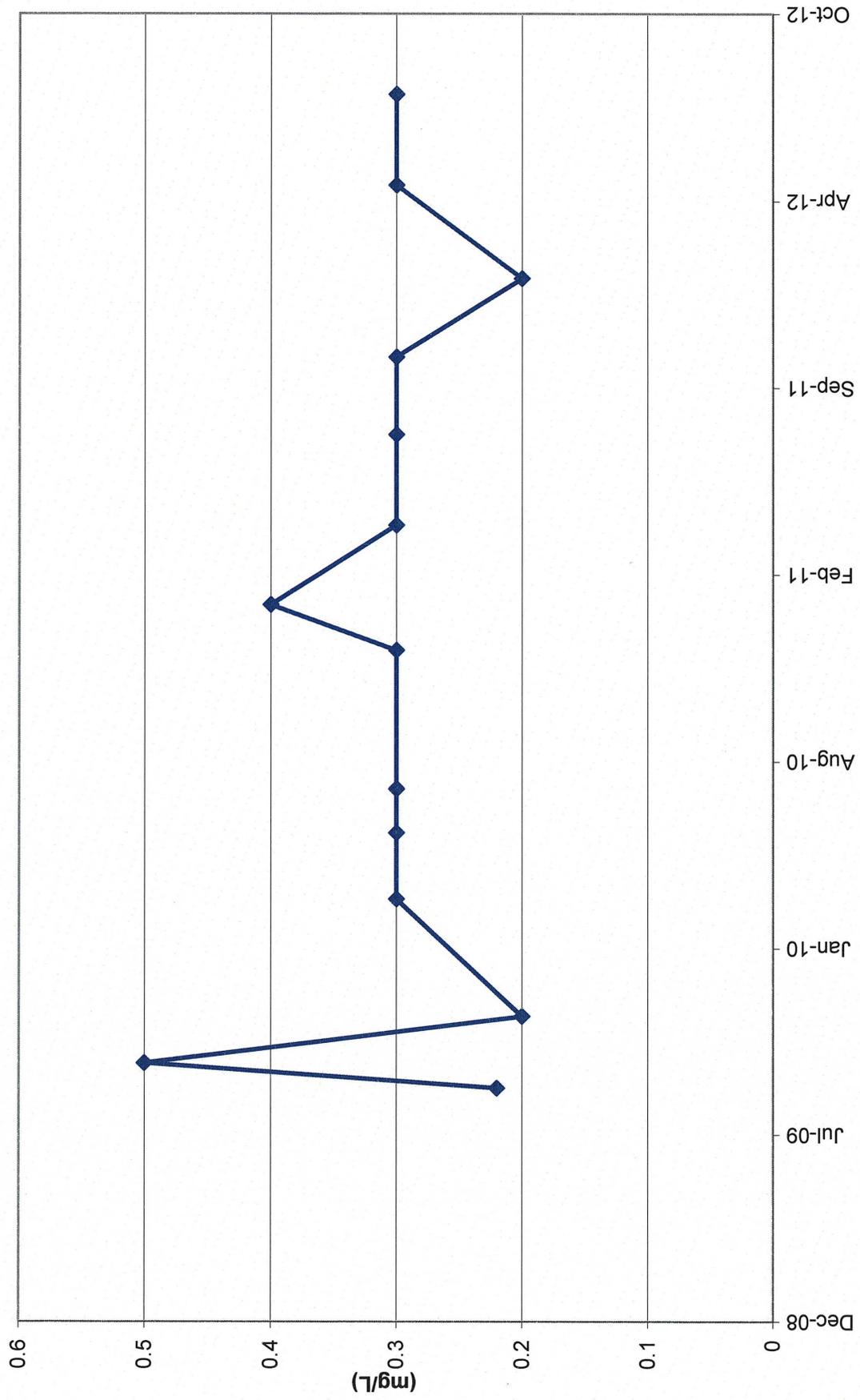
### TWN-4 Nitrate Concentrations



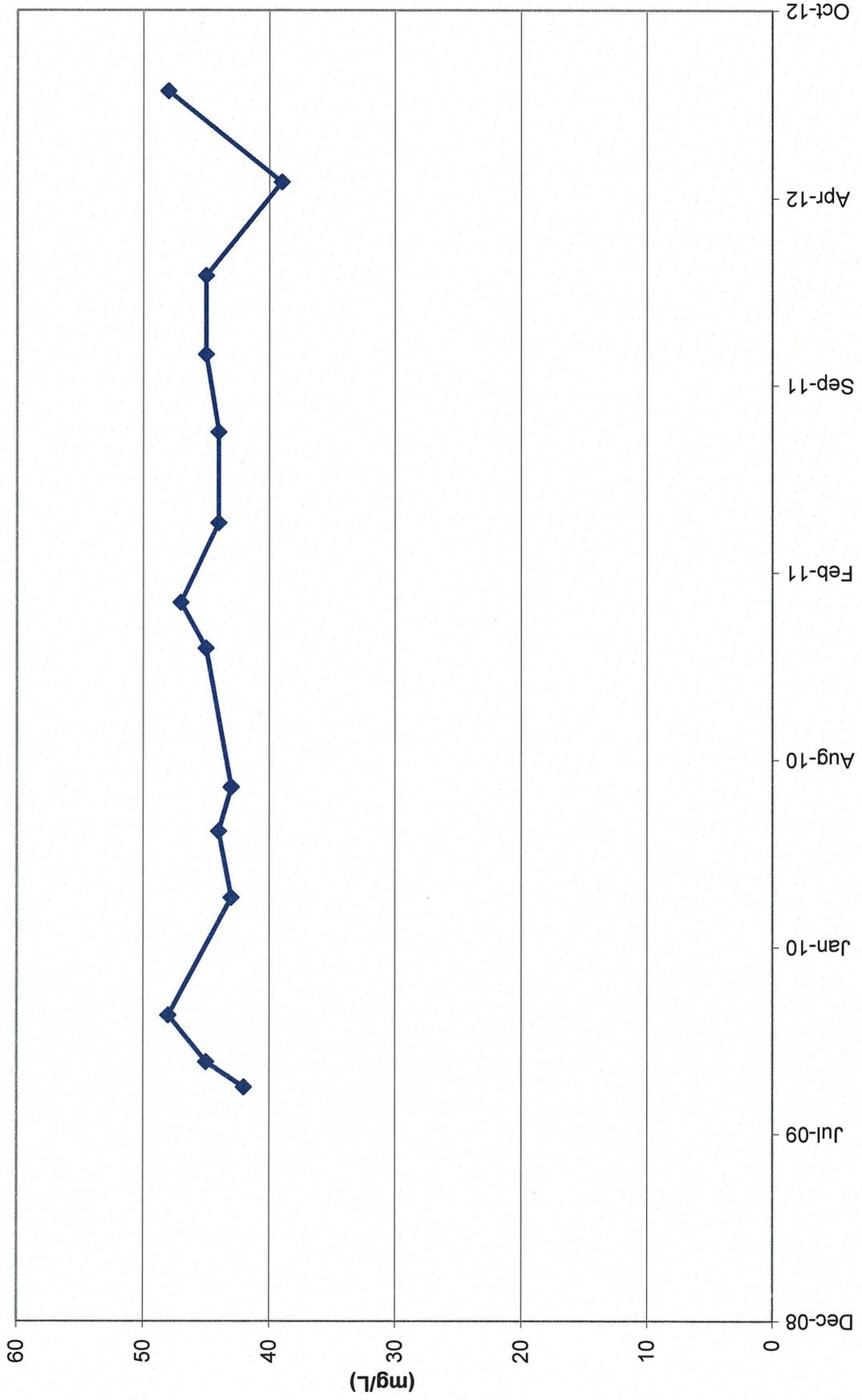
# TWN-4 Chloride Concentrations



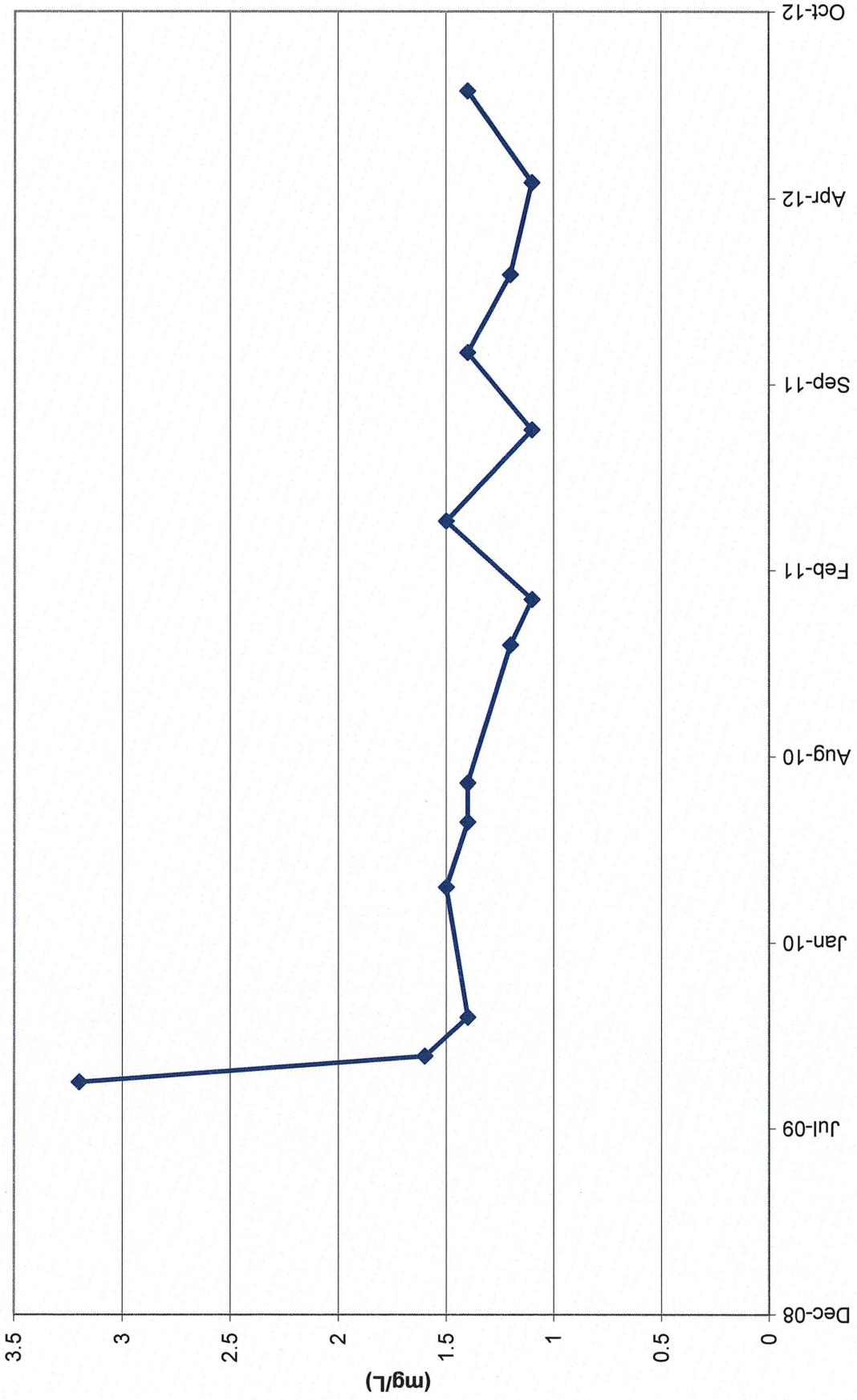
# TWN-5 Nitrate Concentrations



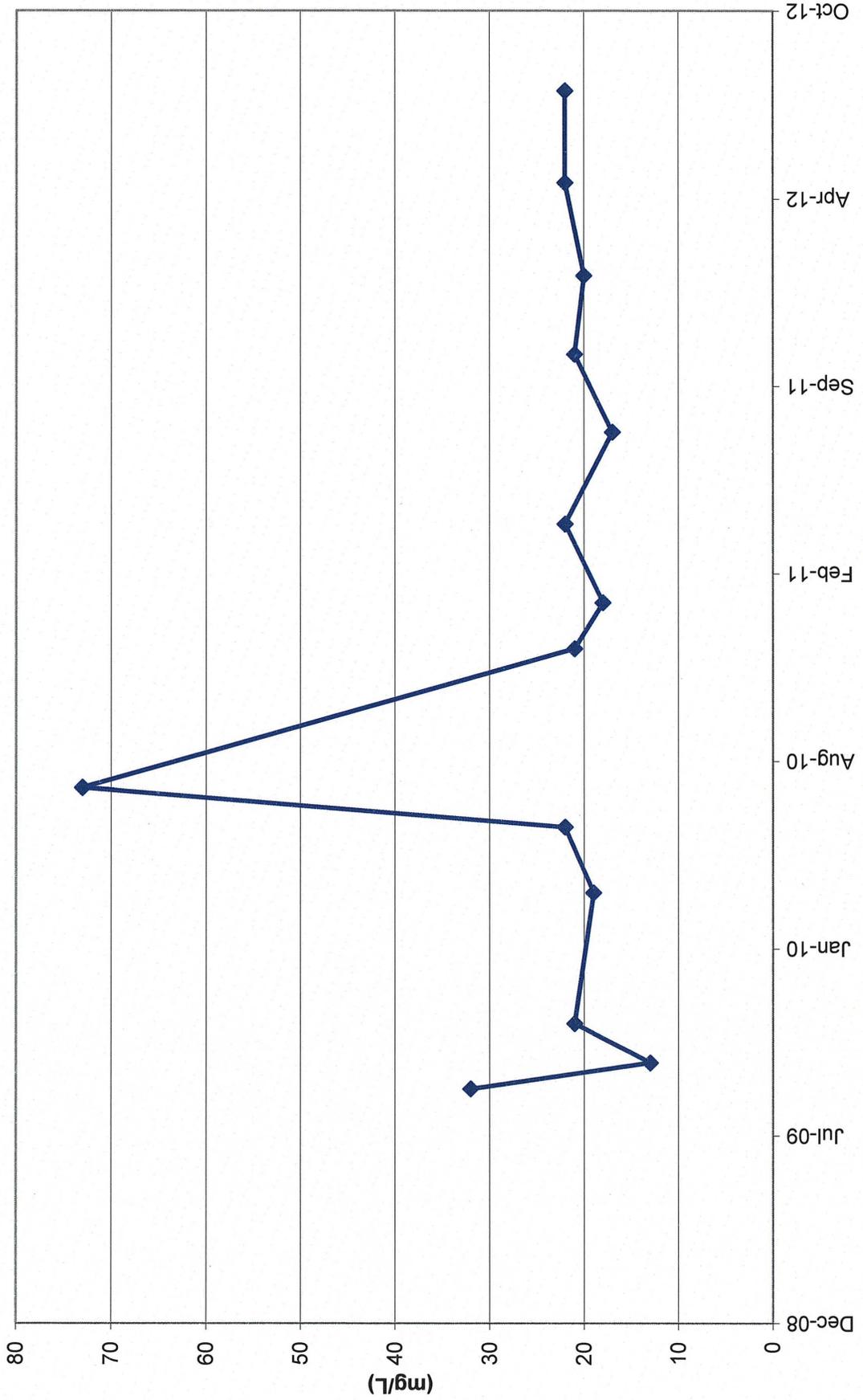
### TWN-5 Chloride Concentrations



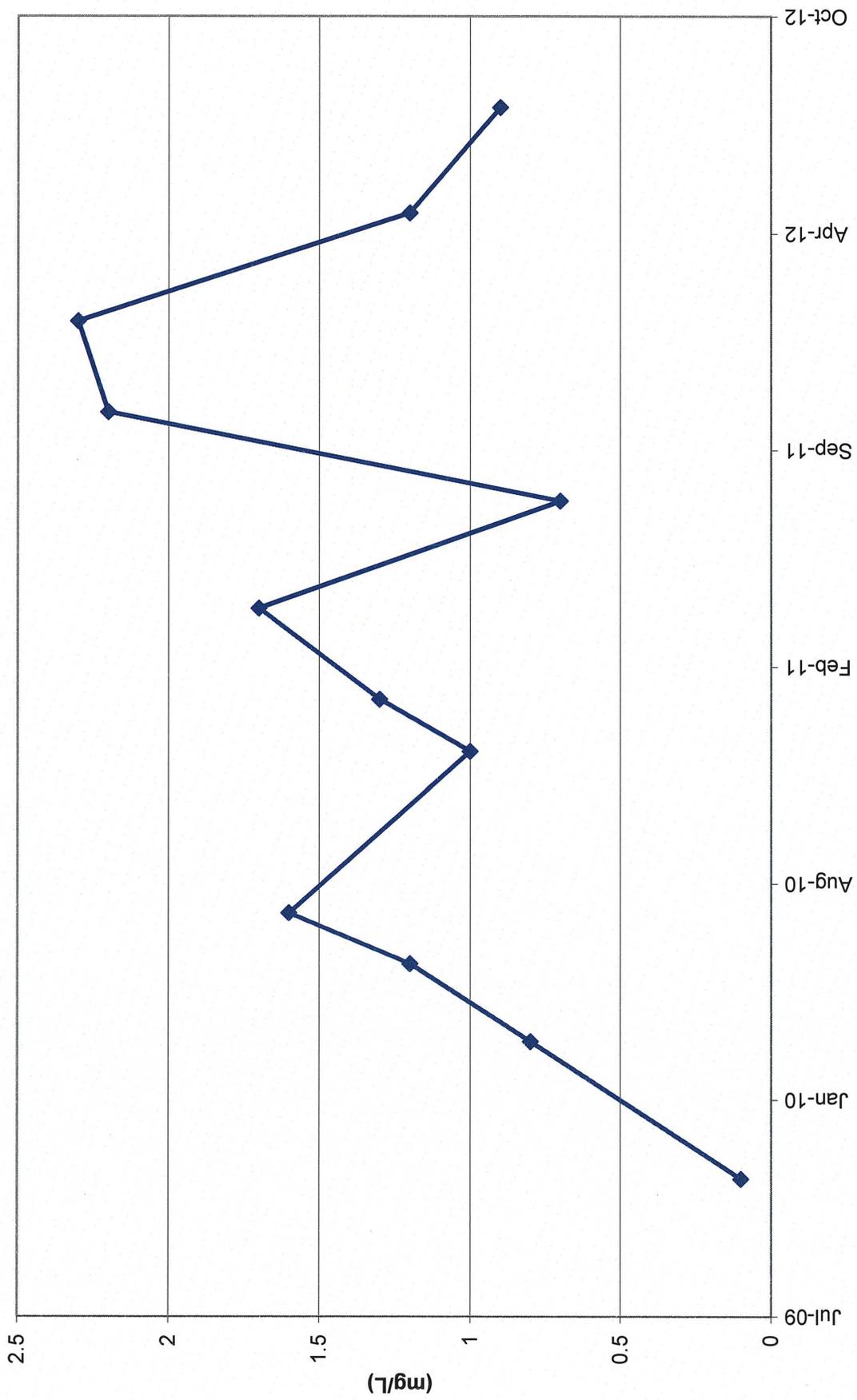
# TWN-6 Nitrate Concentrations



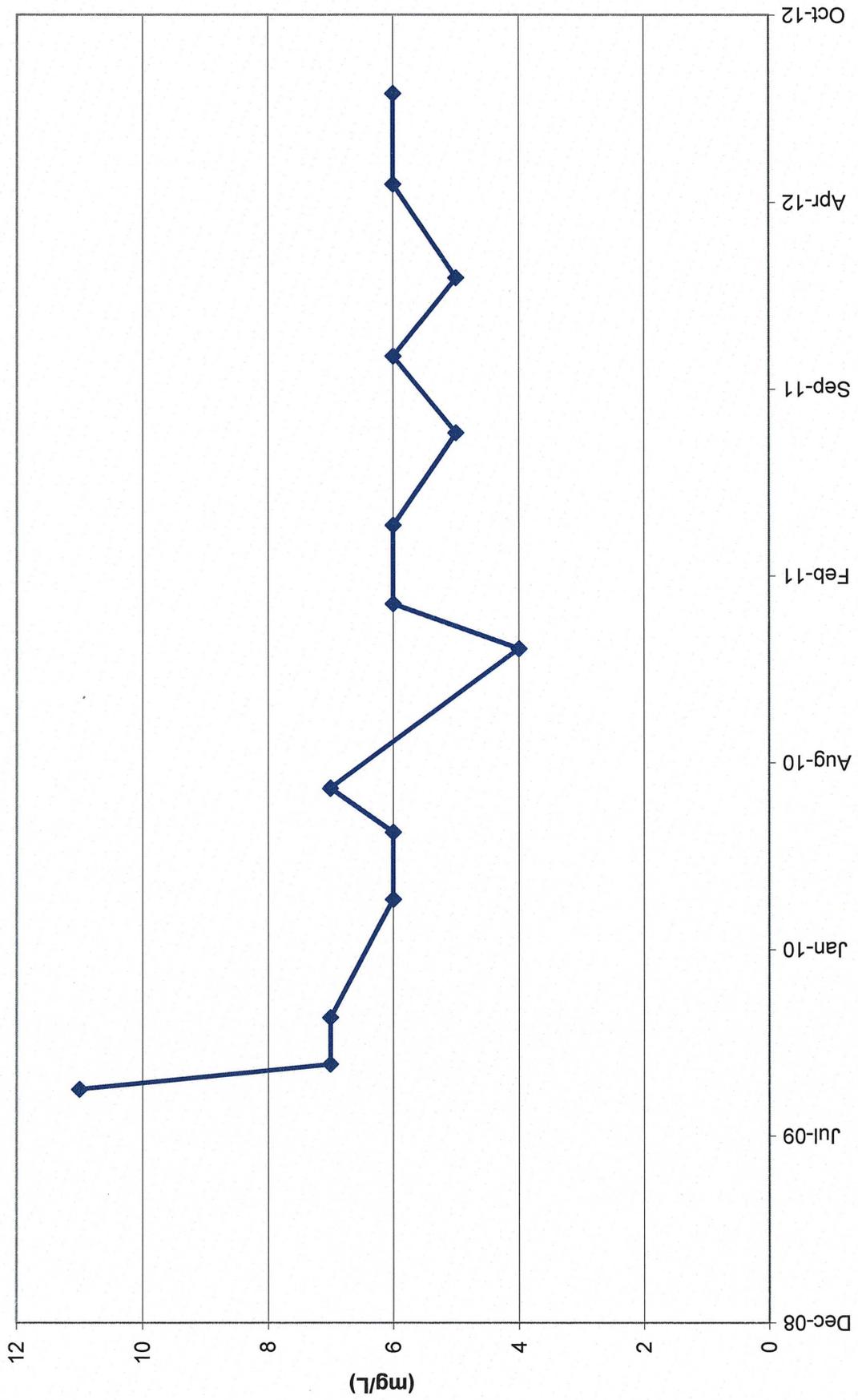
# TWN-6 Chloride Concentrations



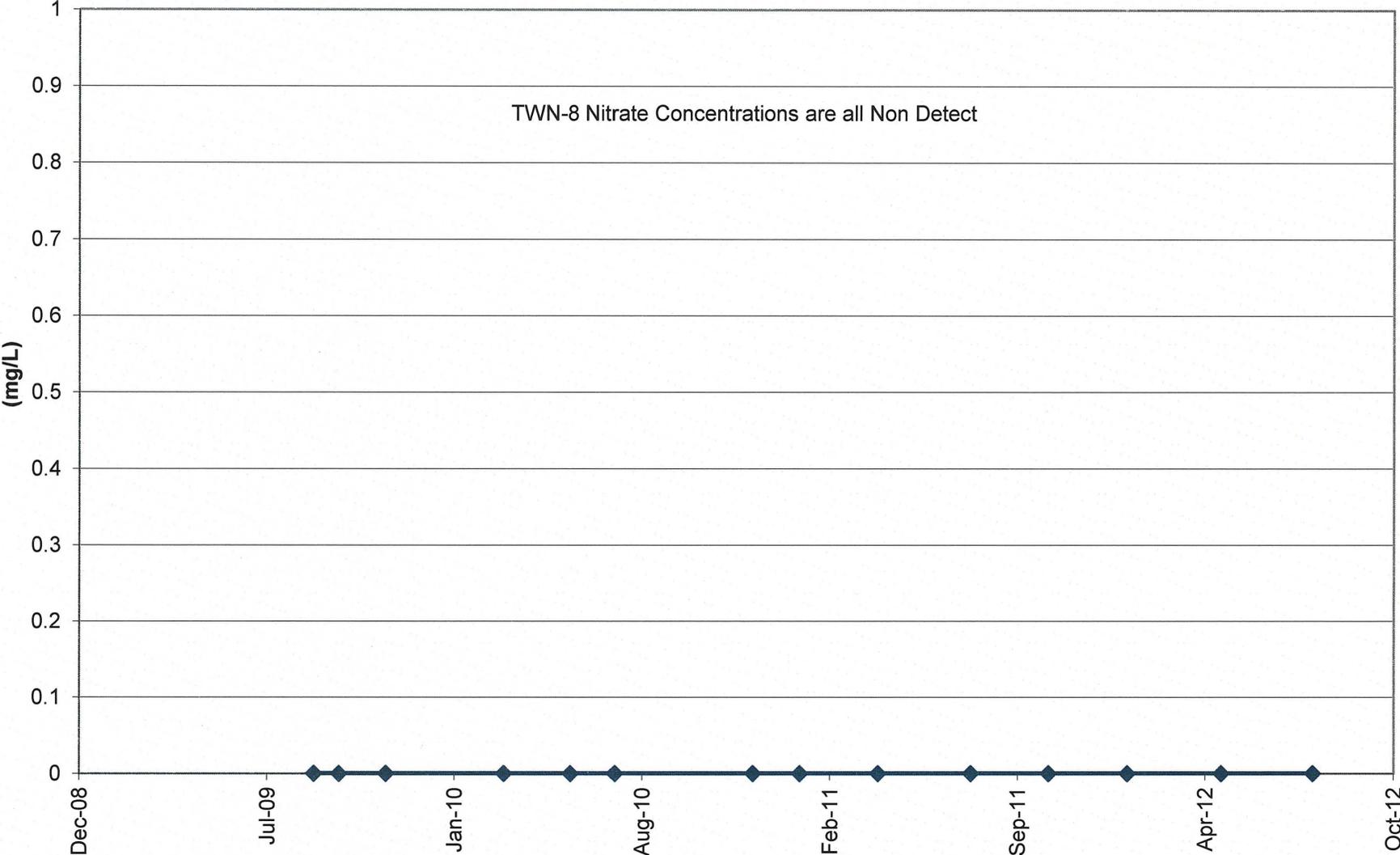
# TWN-7 Nitrate Concentrations



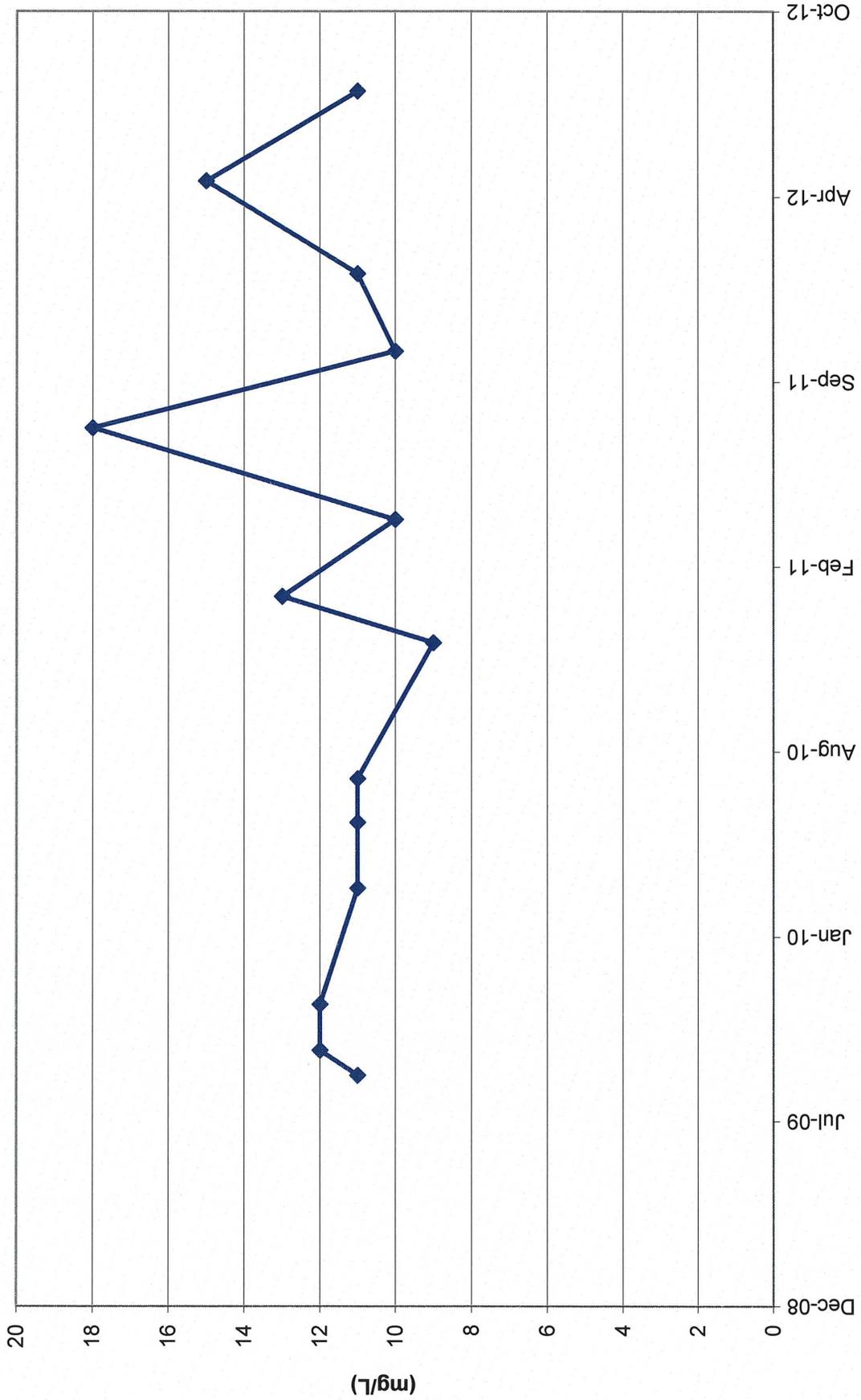
# TWN-7 Chloride Concentrations



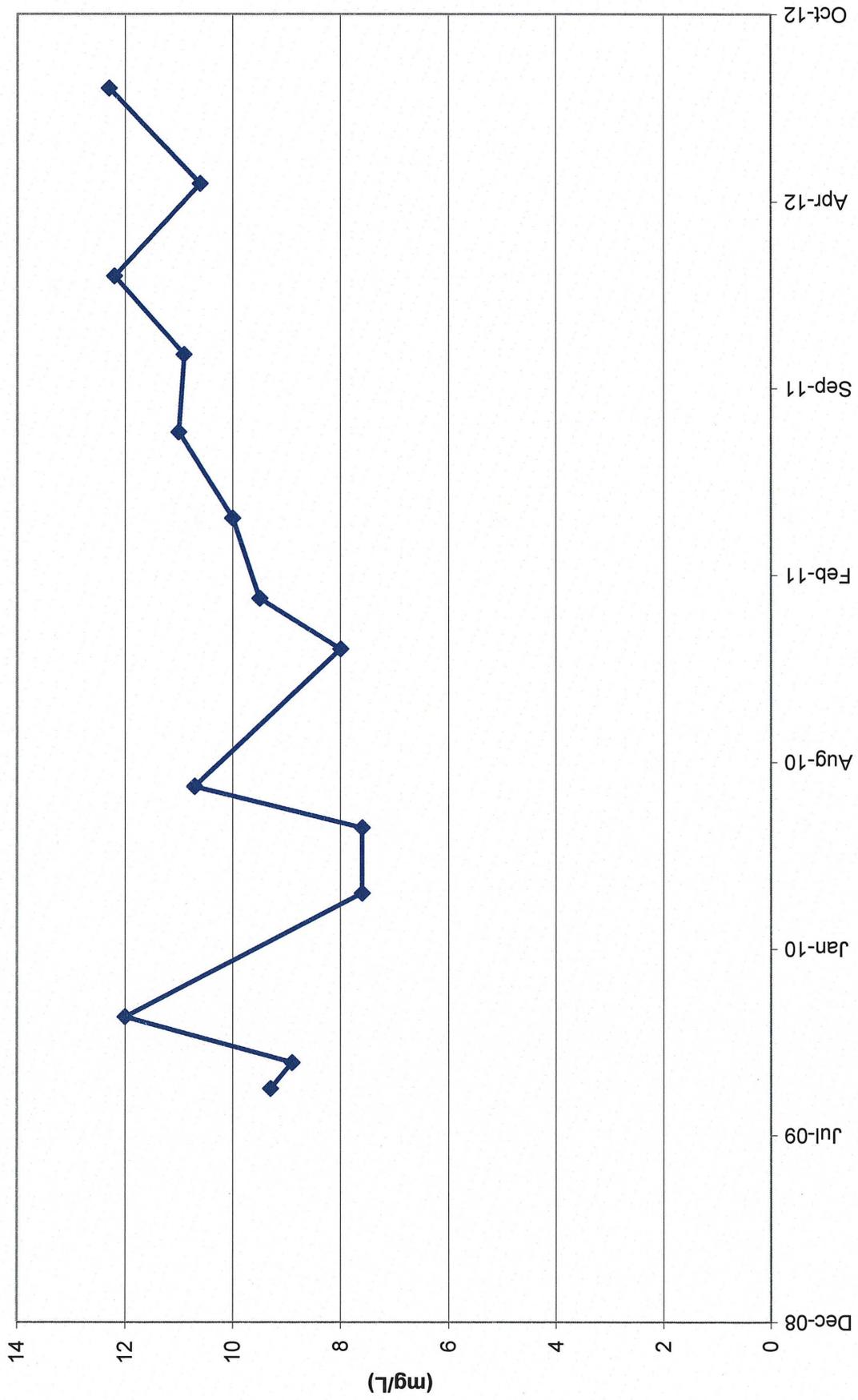
### TWN-8 Nitrate Concentrations



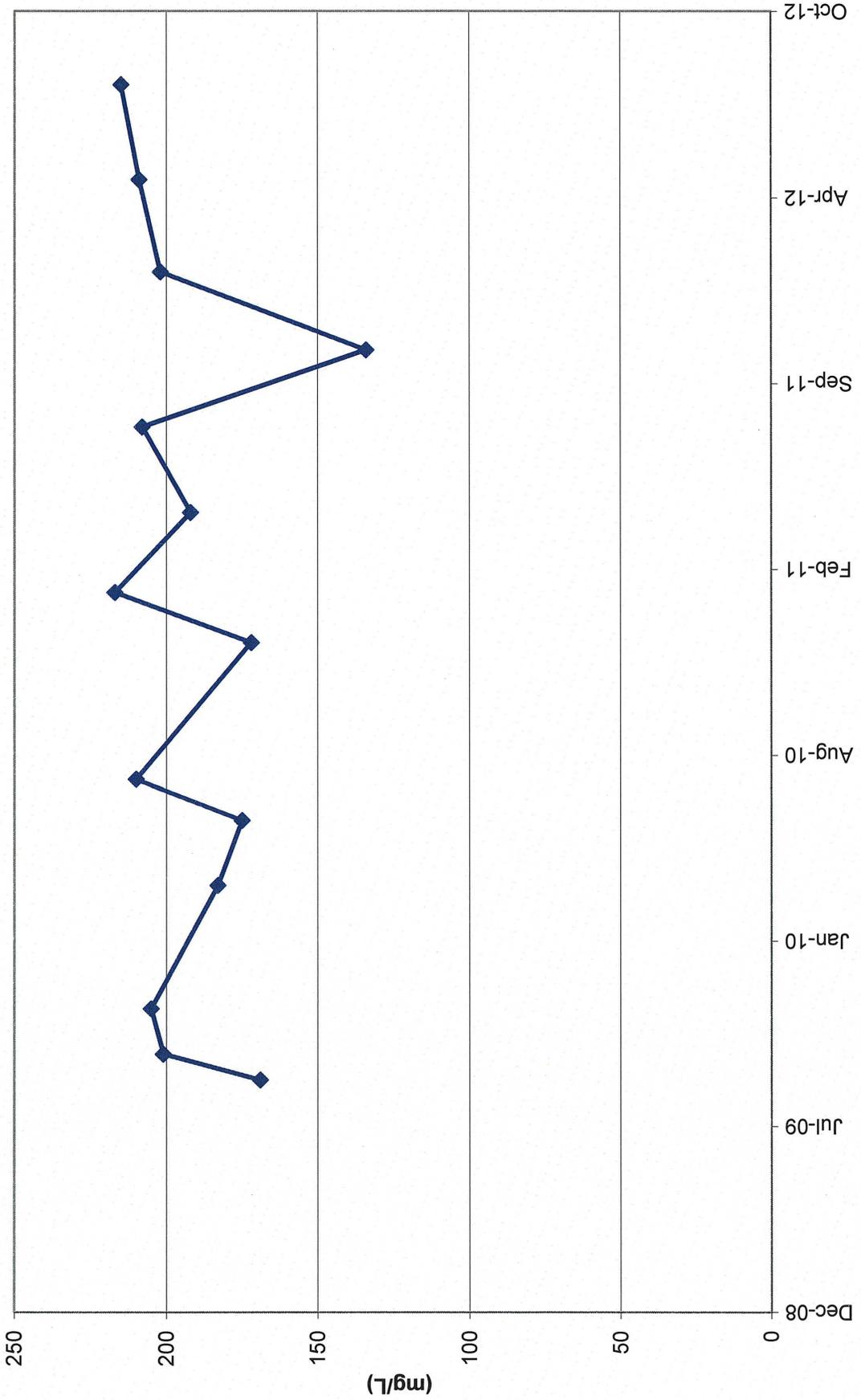
# TWN-8 Chloride Concentrations



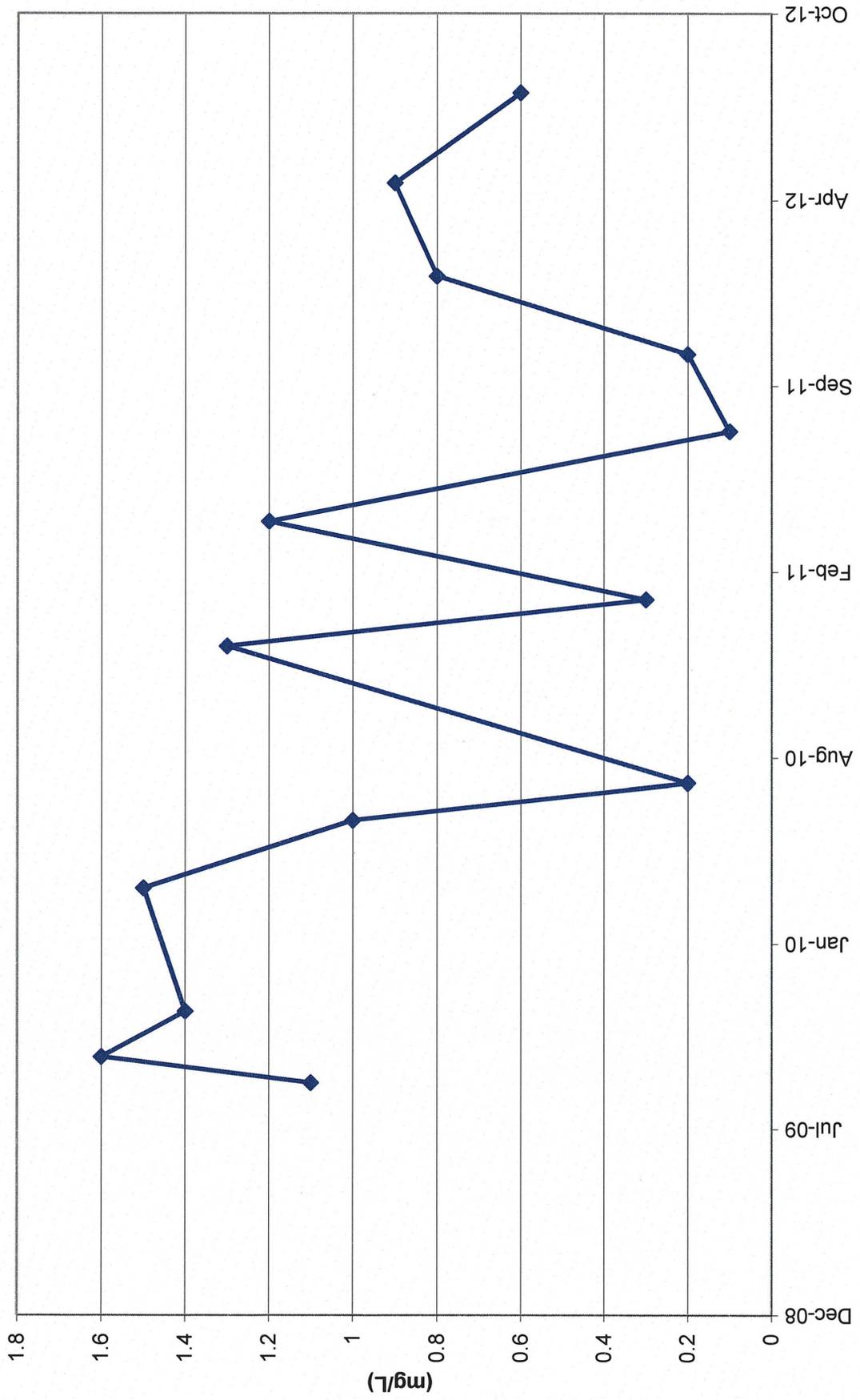
# TWN-9 Nitrate Concentrations



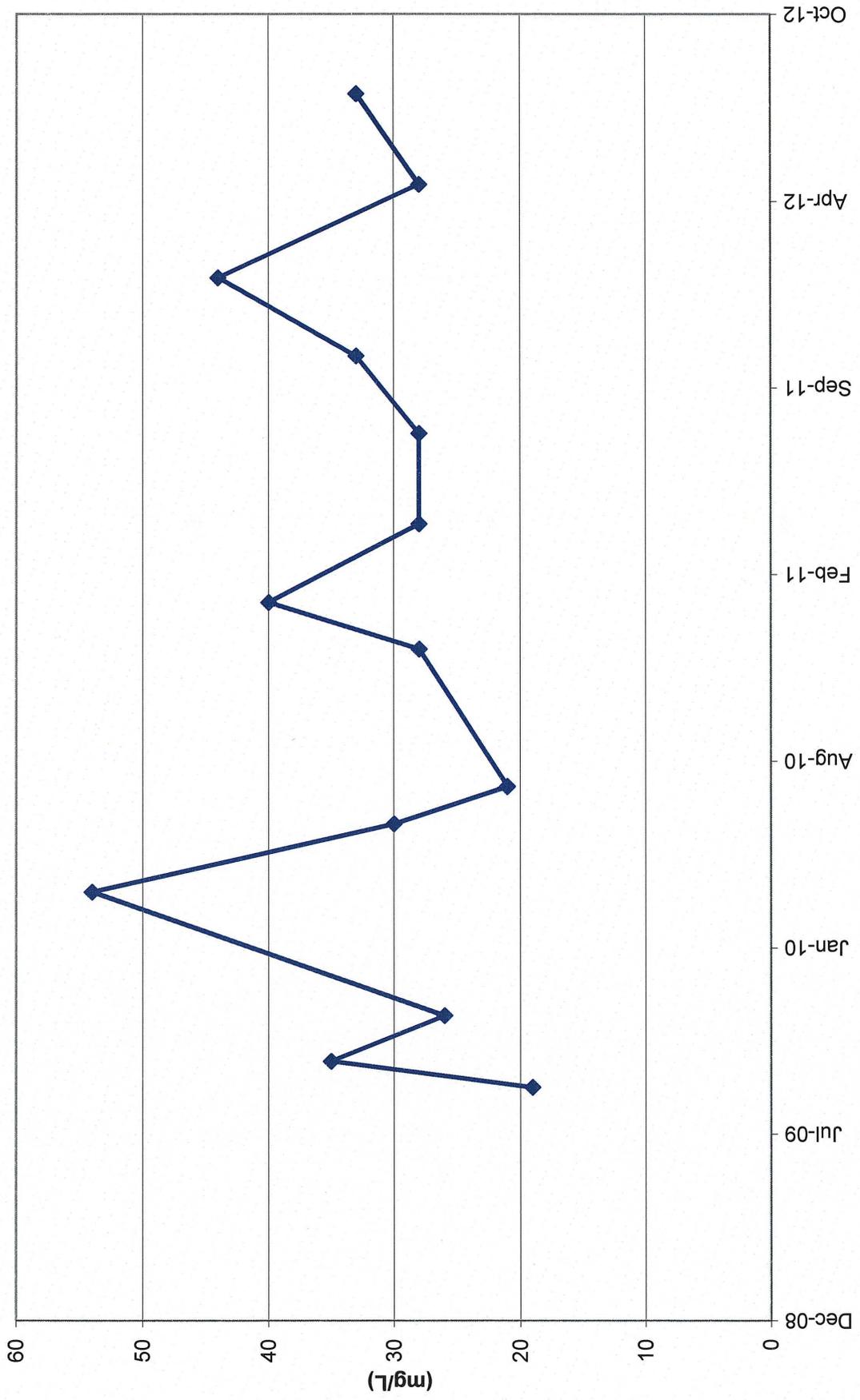
# TWN-9 Chloride Concentrations



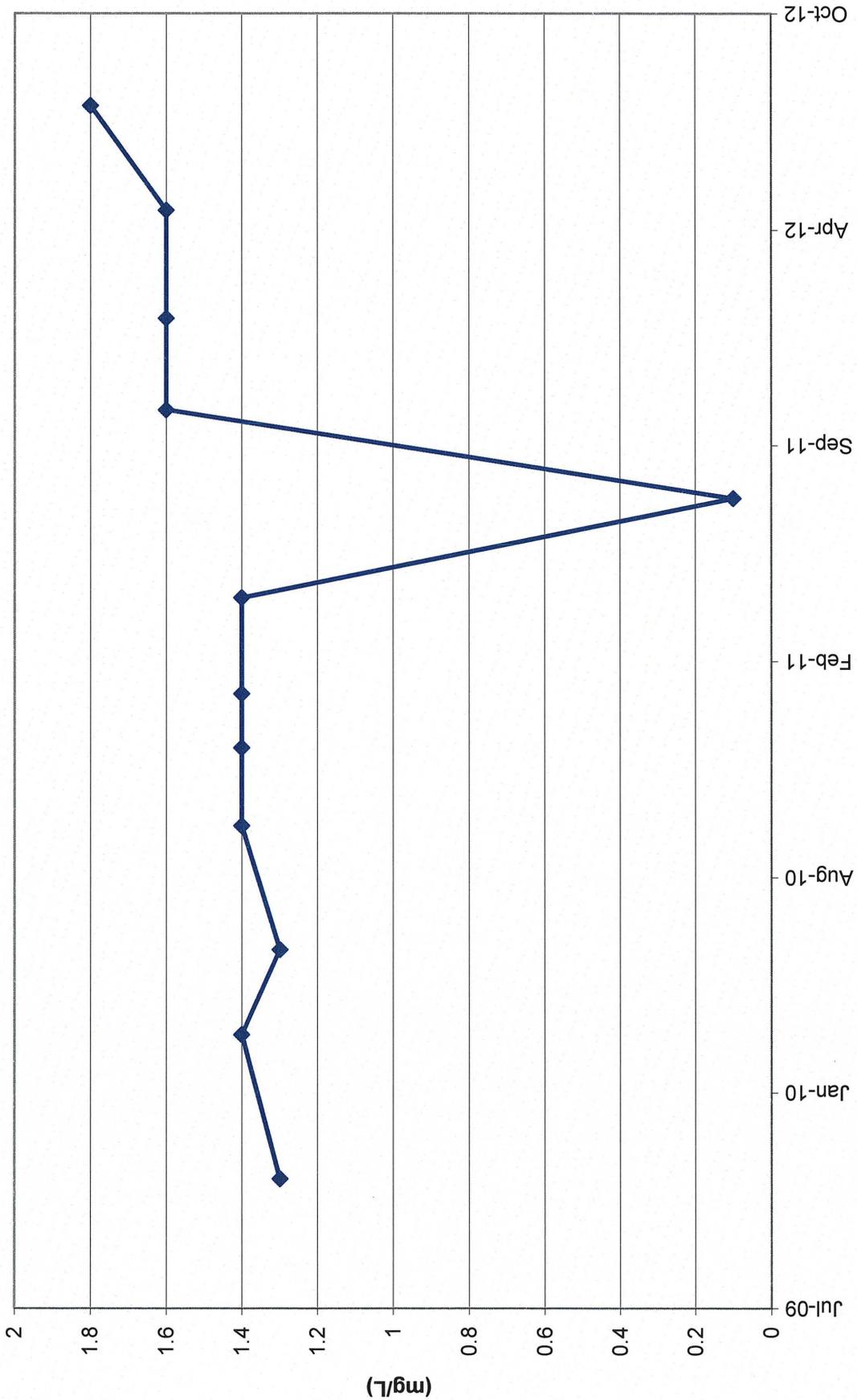
# TWN-10 Nitrate Concentrations



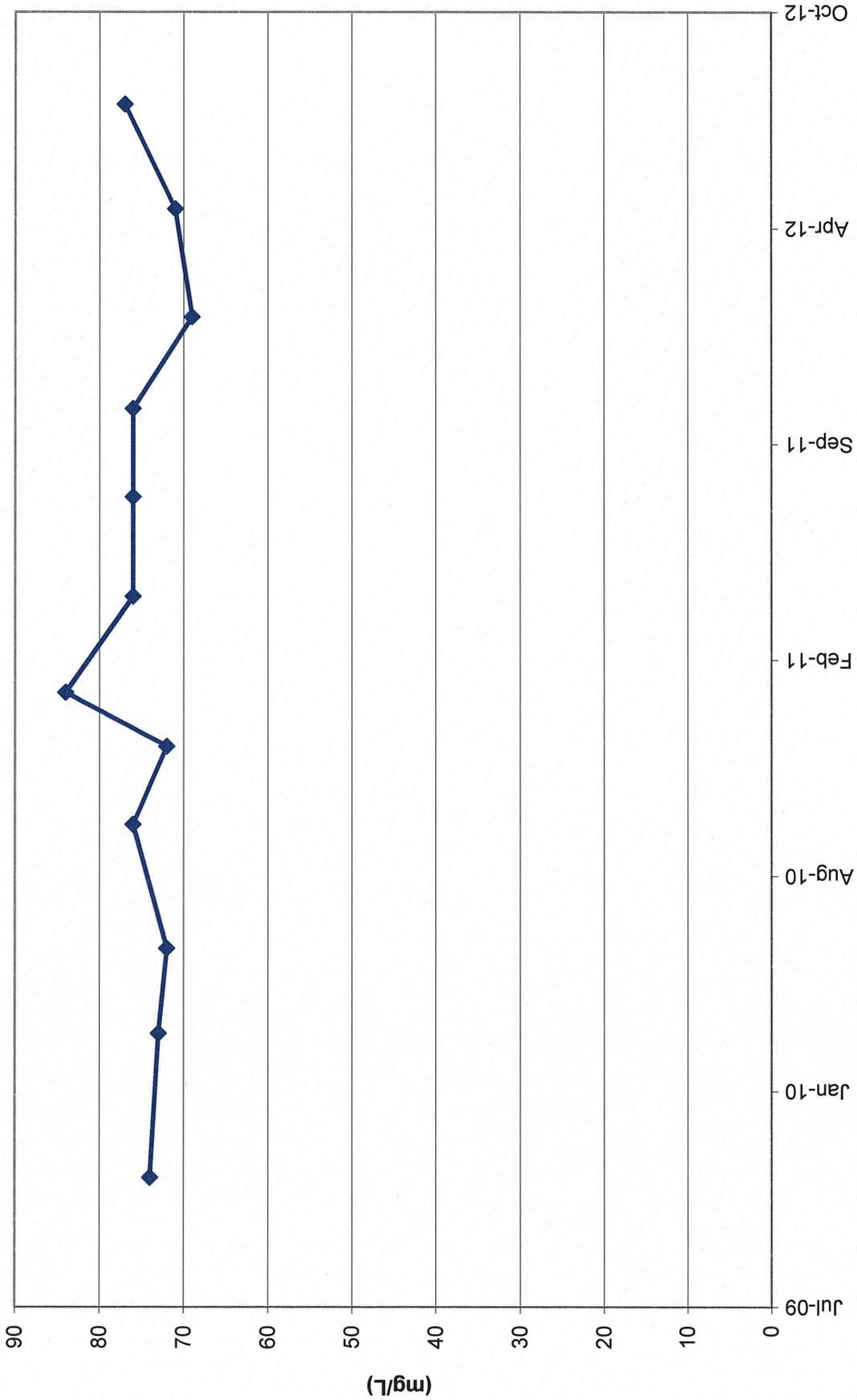
# TWN-10 Chloride Concentrations



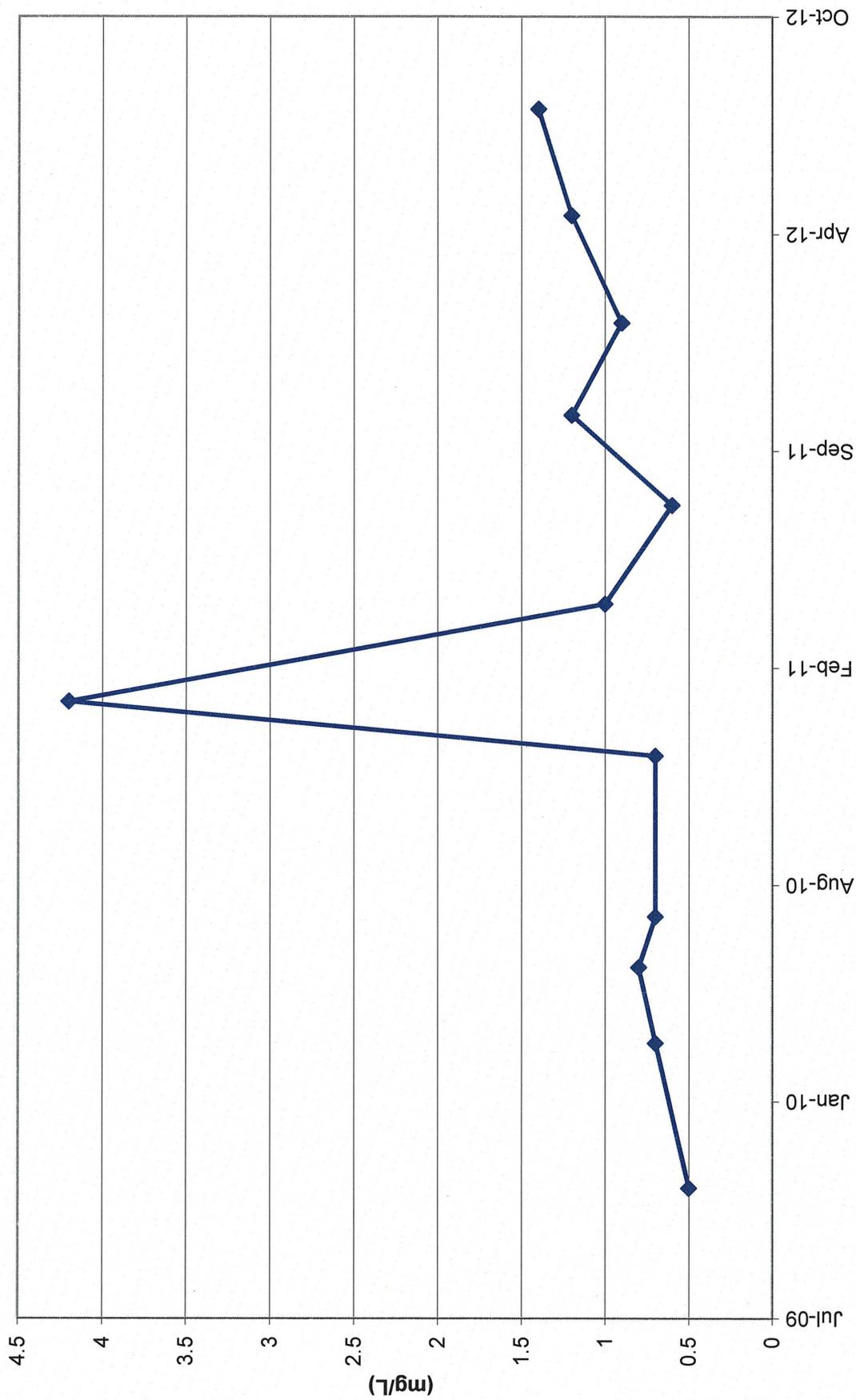
TWN-11 Nitrate Concentrations



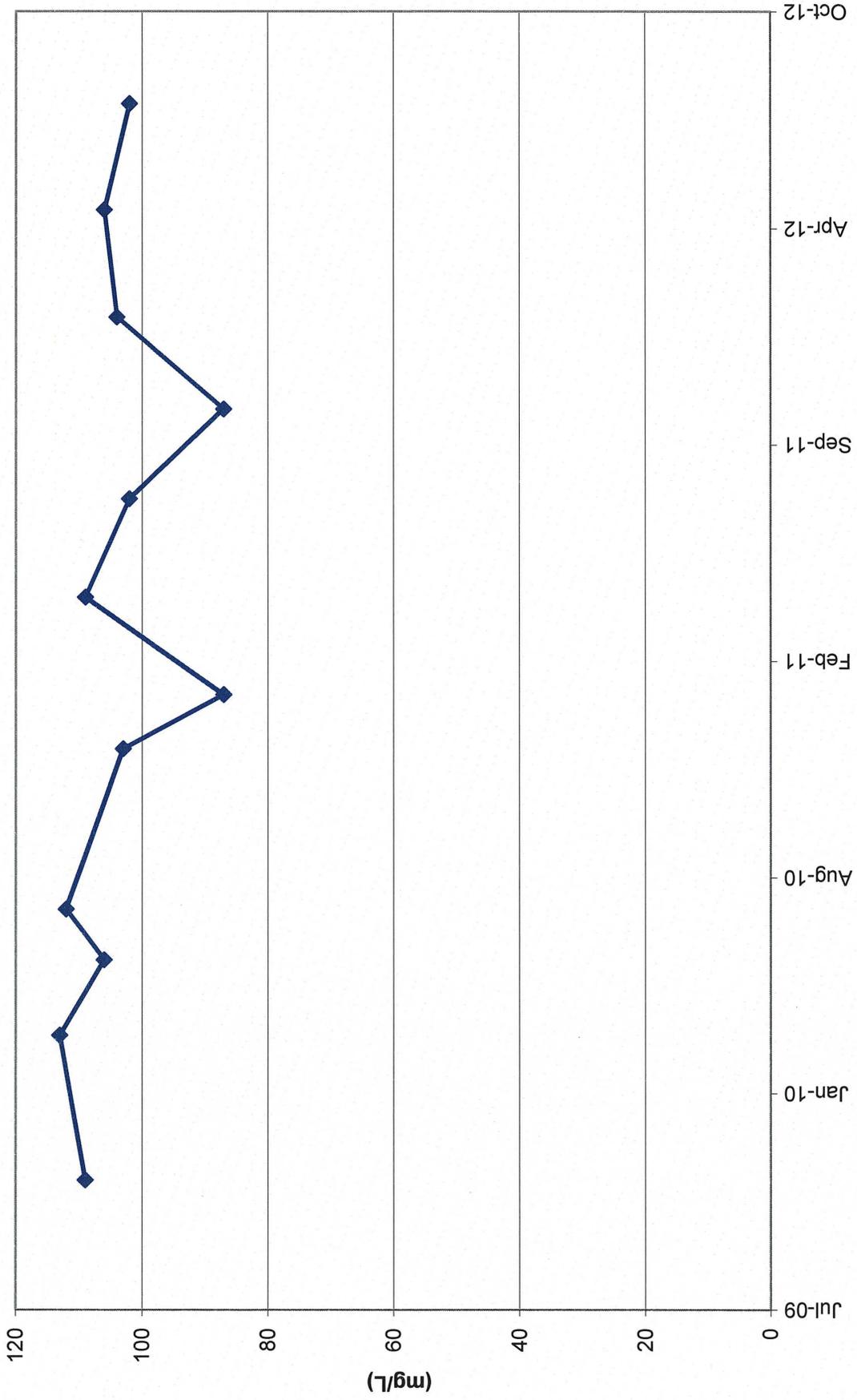
# TWN-11 Chloride Concentrations



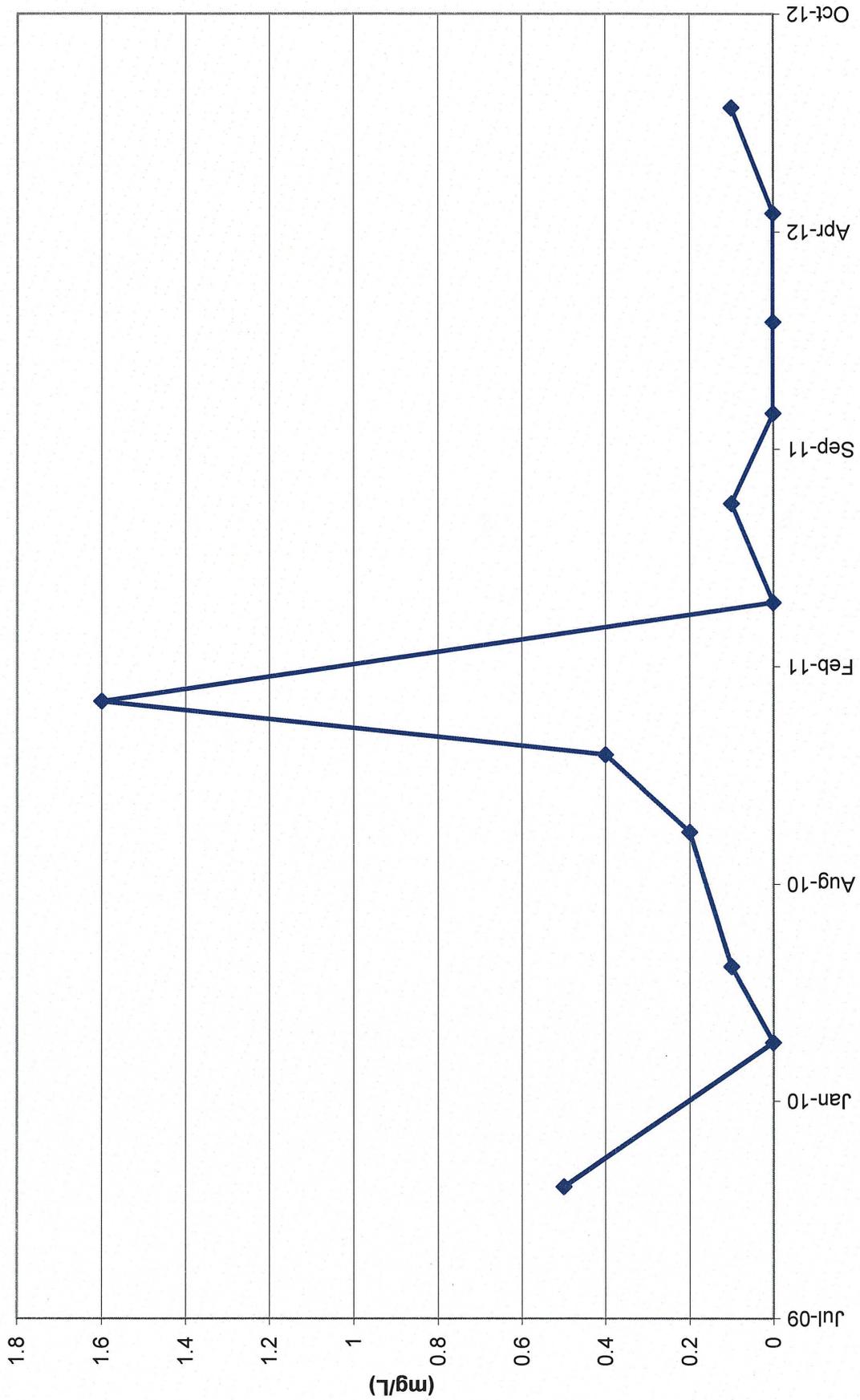
# TWN-12 Nitrate Concentrations



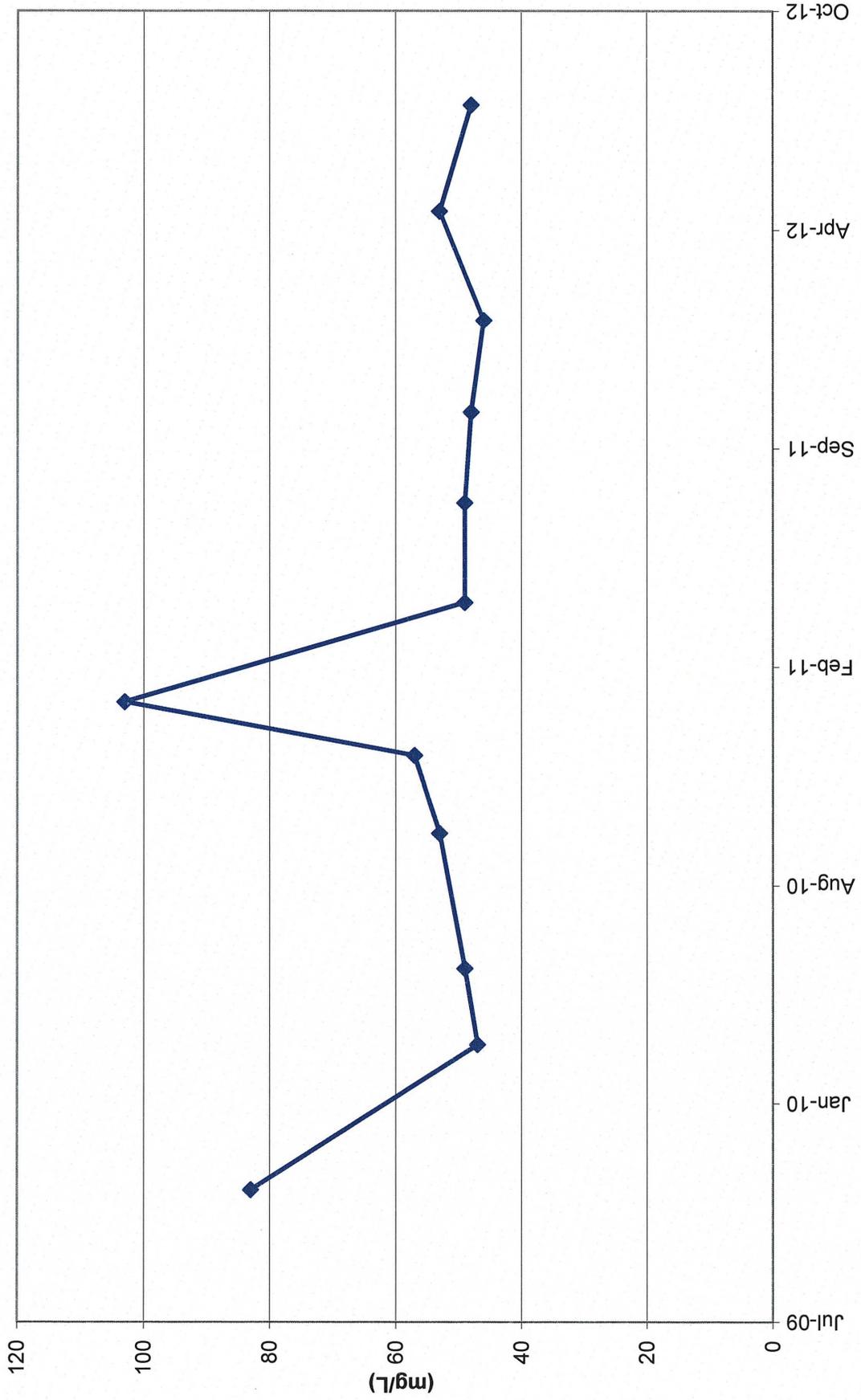
# TWN-12 Chloride Concentrations



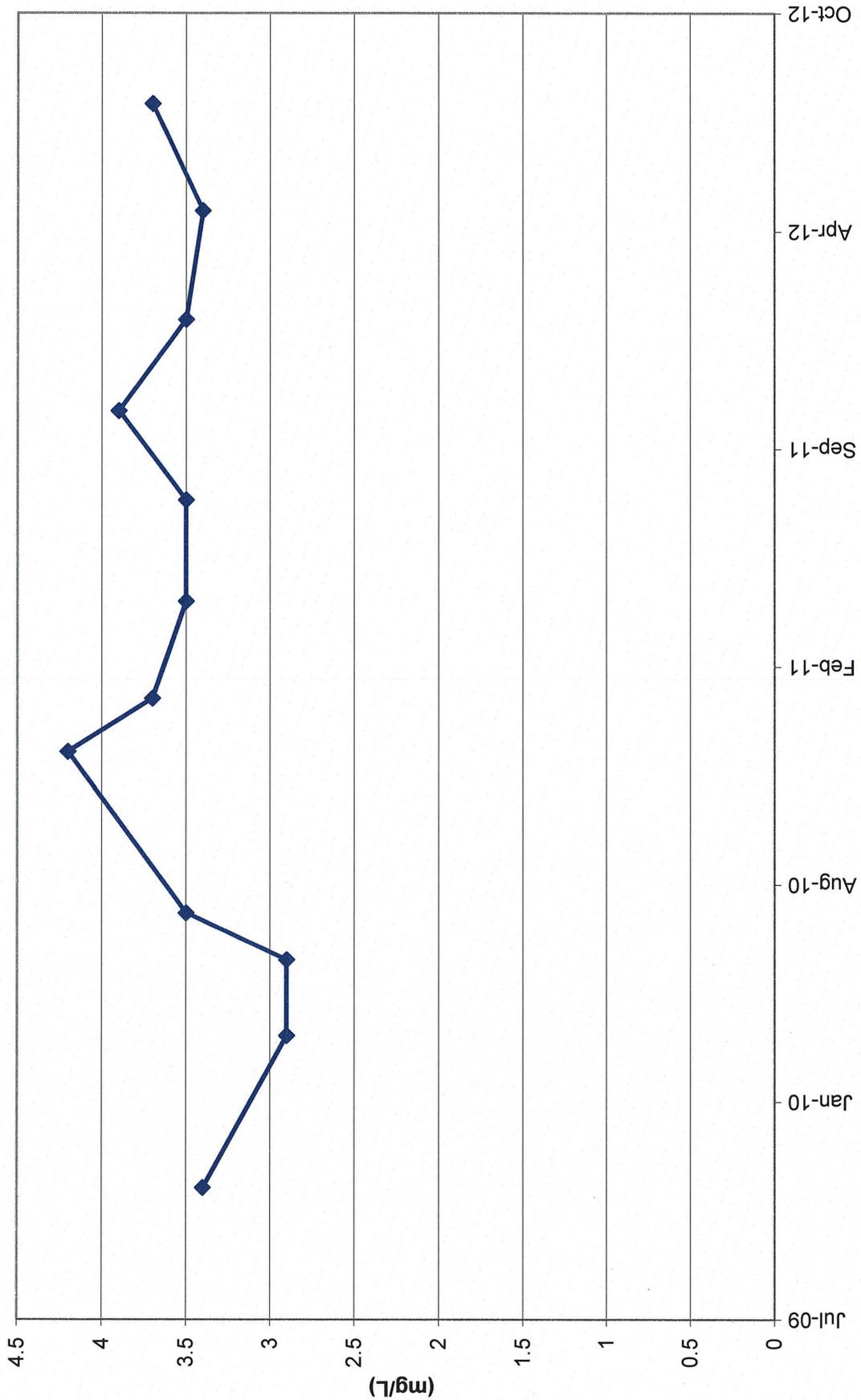
# TWN-13 Nitrate Concentrations



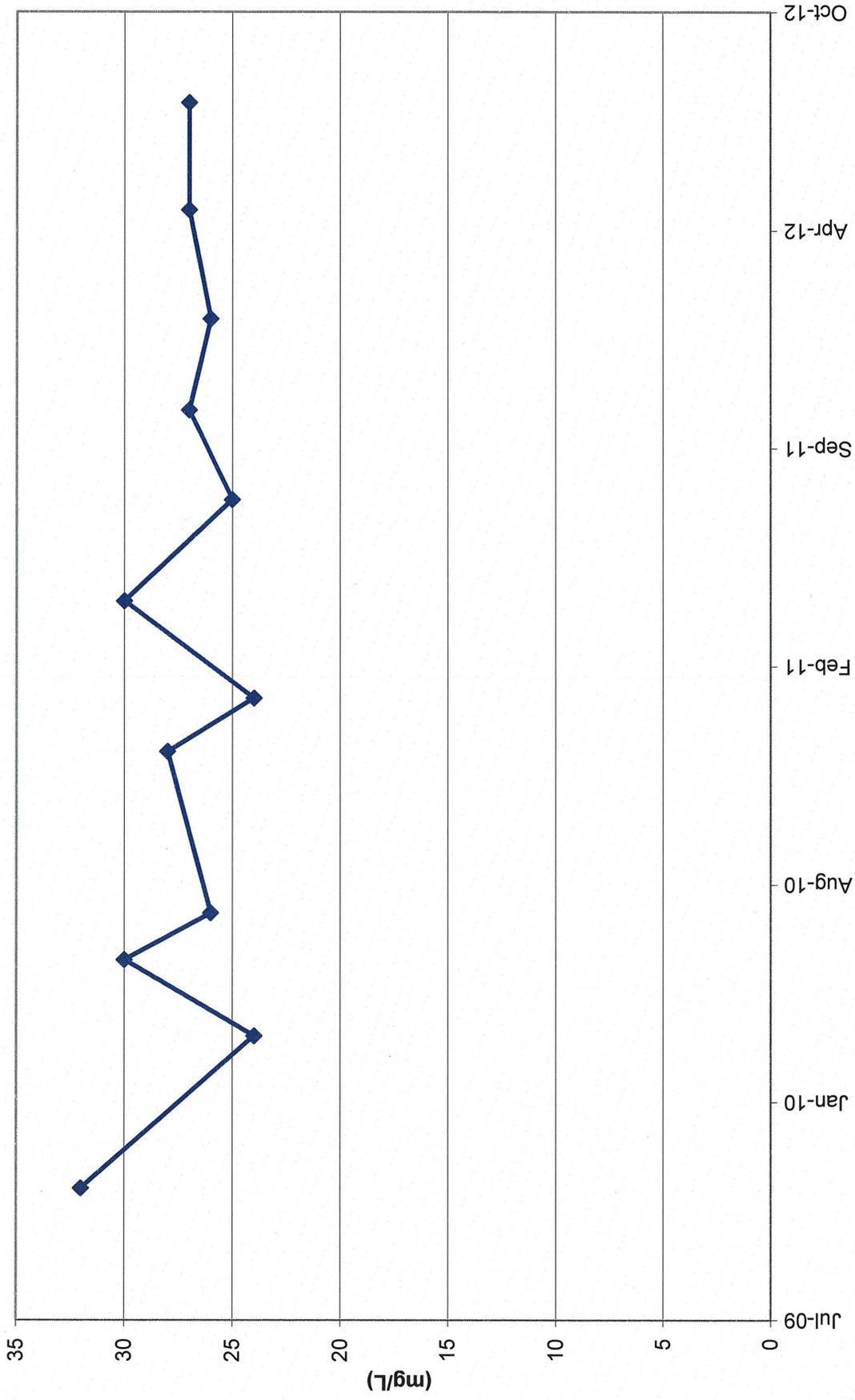
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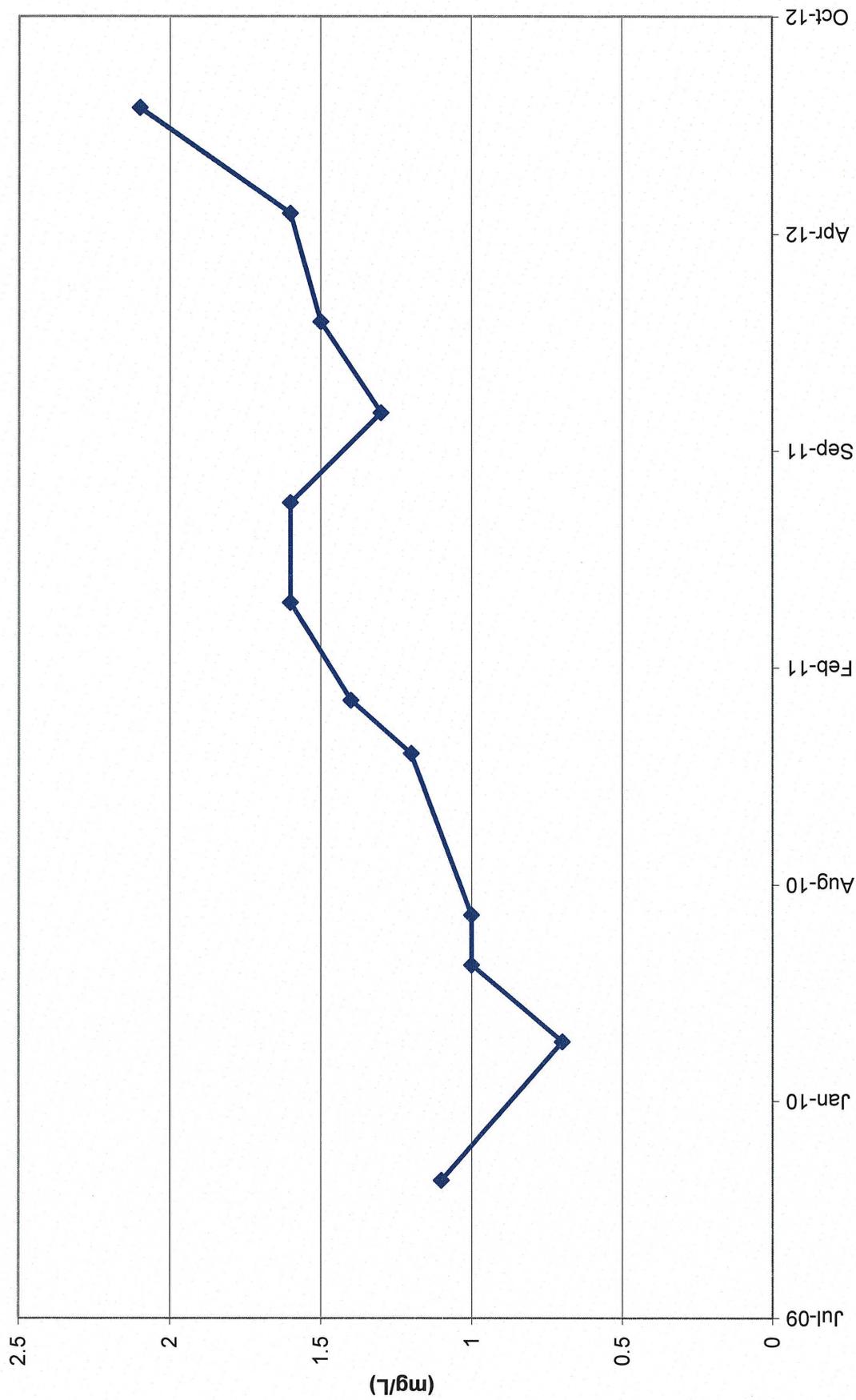
TWN-14 Nitrate Concentrations



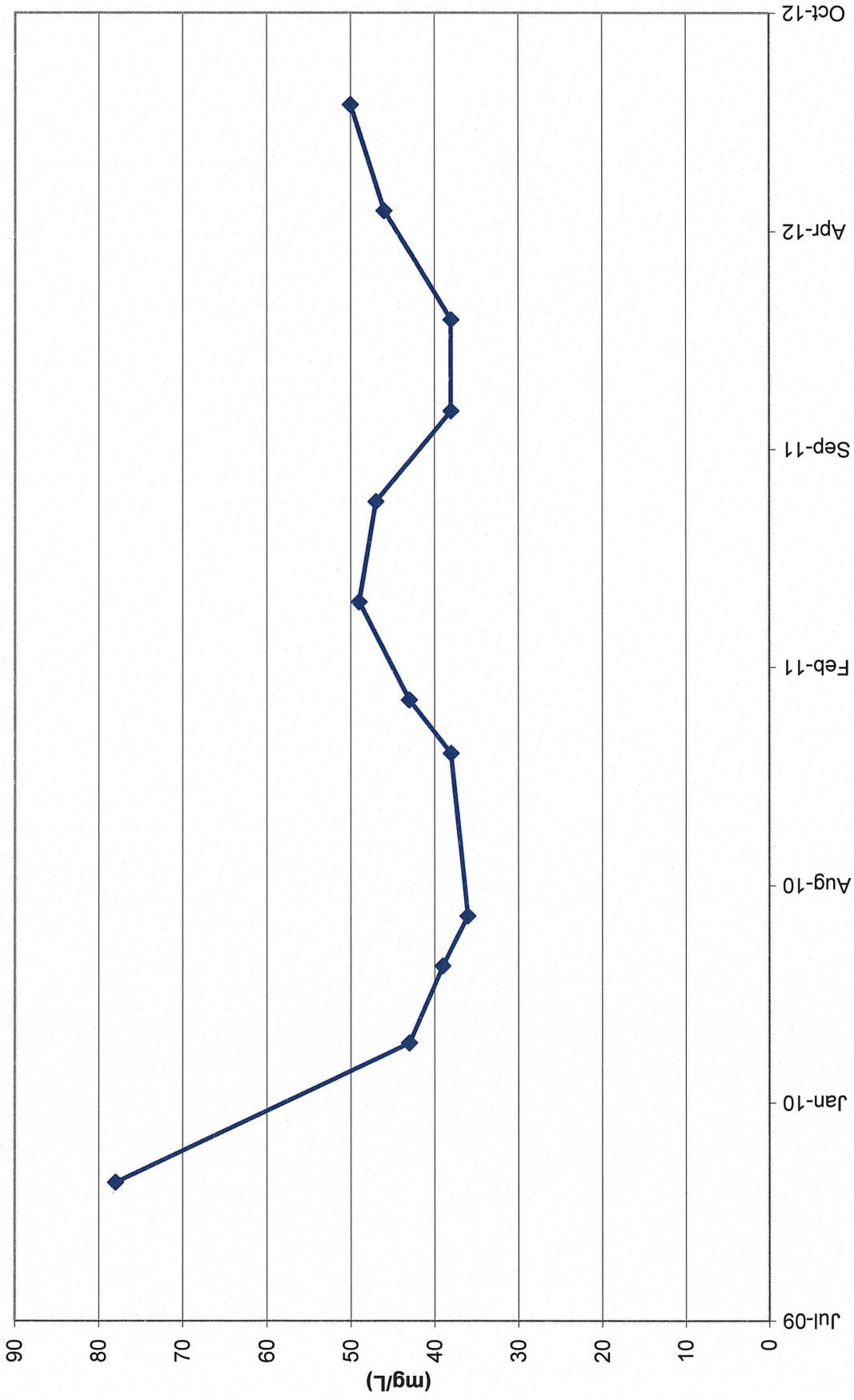
# TWN-14 Chloride Concentrations



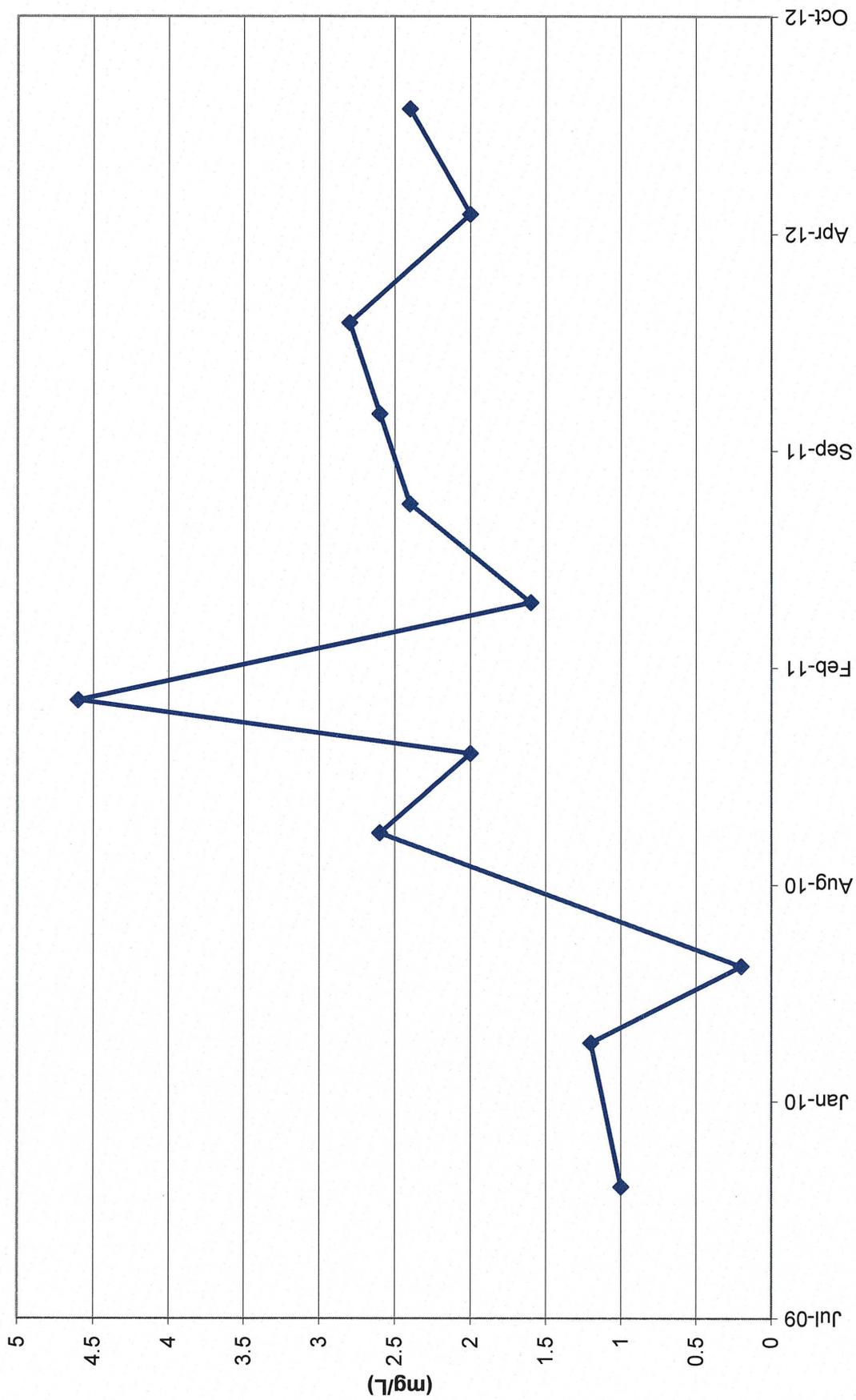
# TWN-15 Nitrate Concentrations



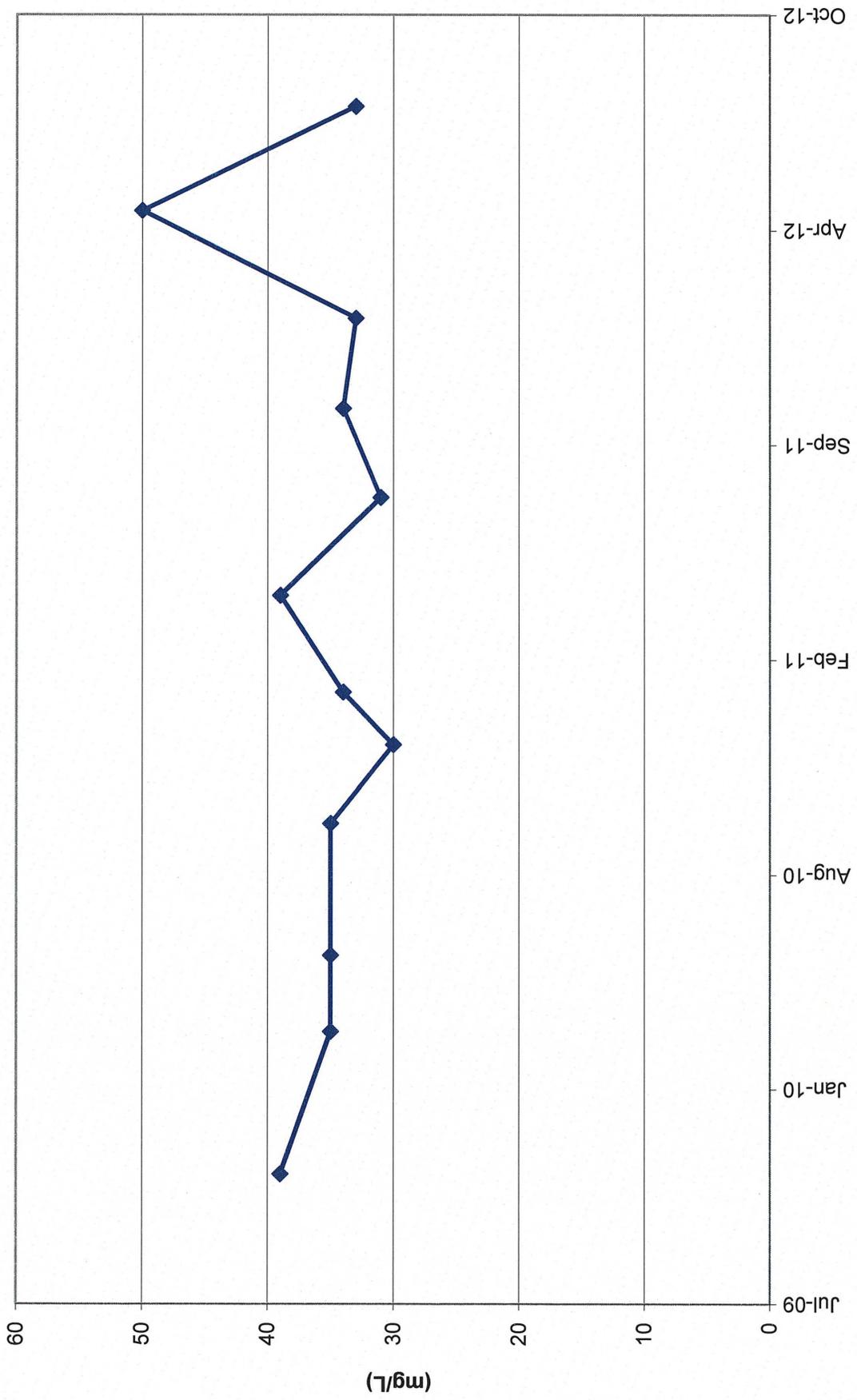
# TWN-15 Chloride Concentrations



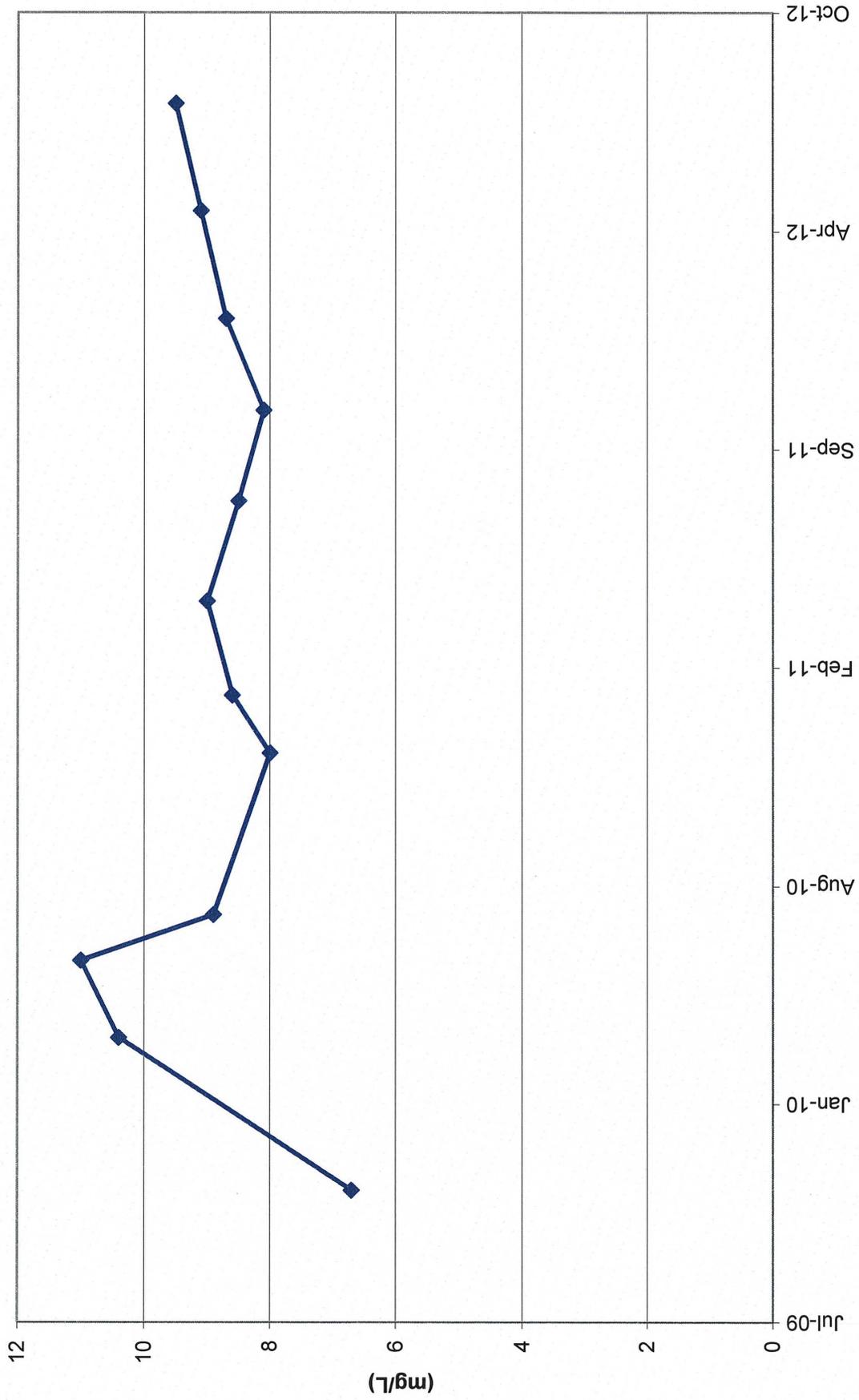
# TWN-16 Nitrate Concentrations



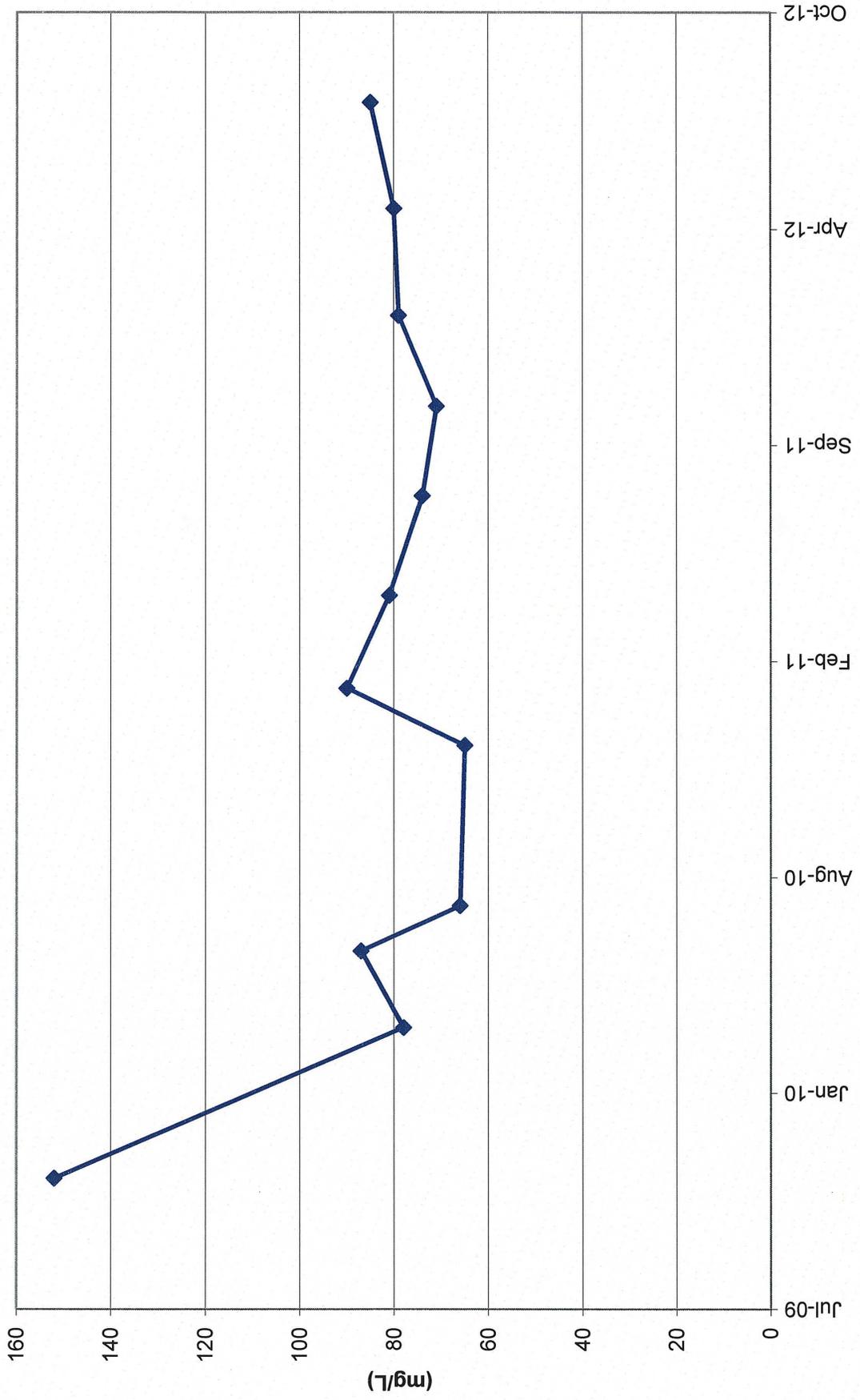
# TWN-16 Chloride Concentrations



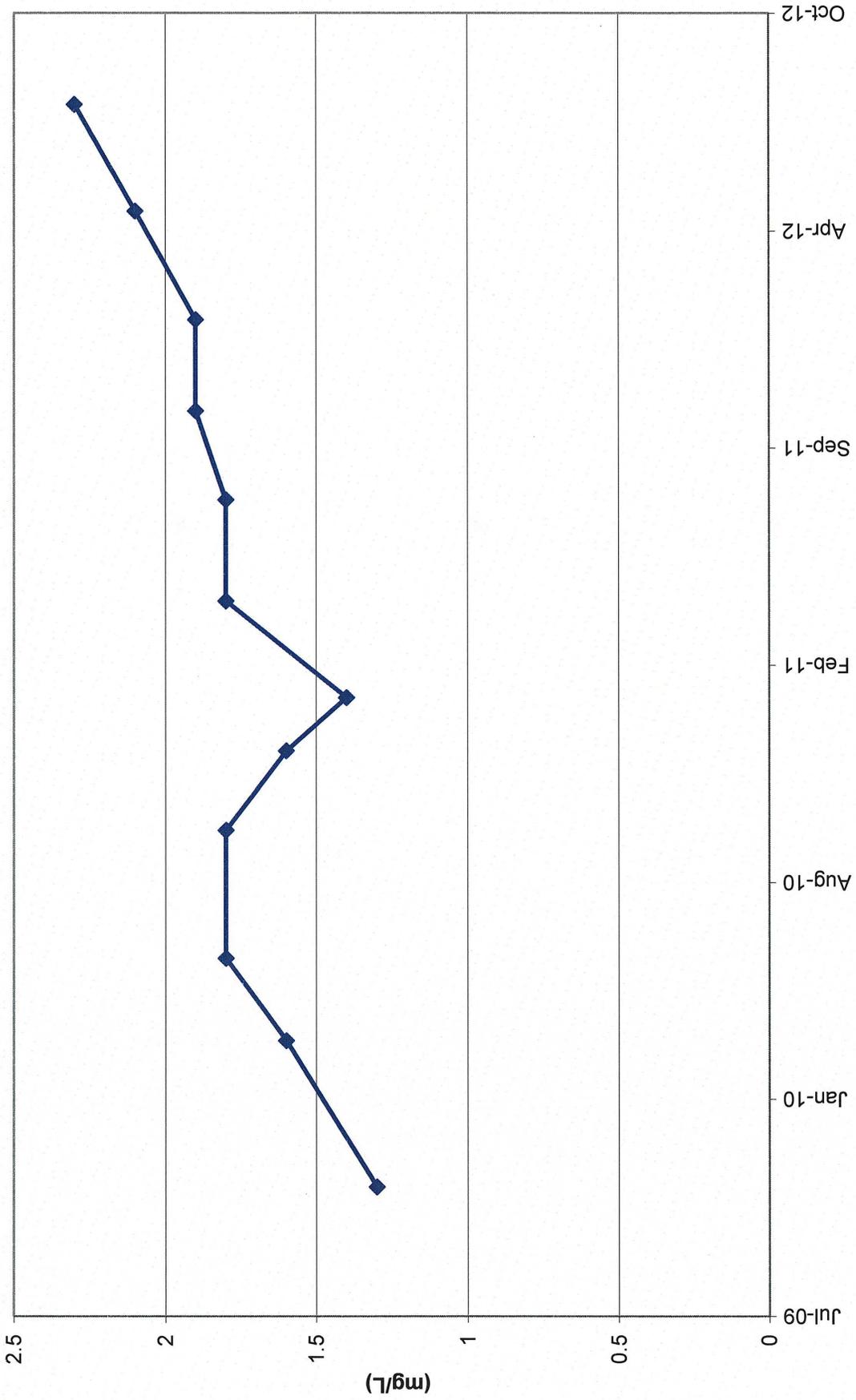
# TWN-17 Nitrate Concentrations



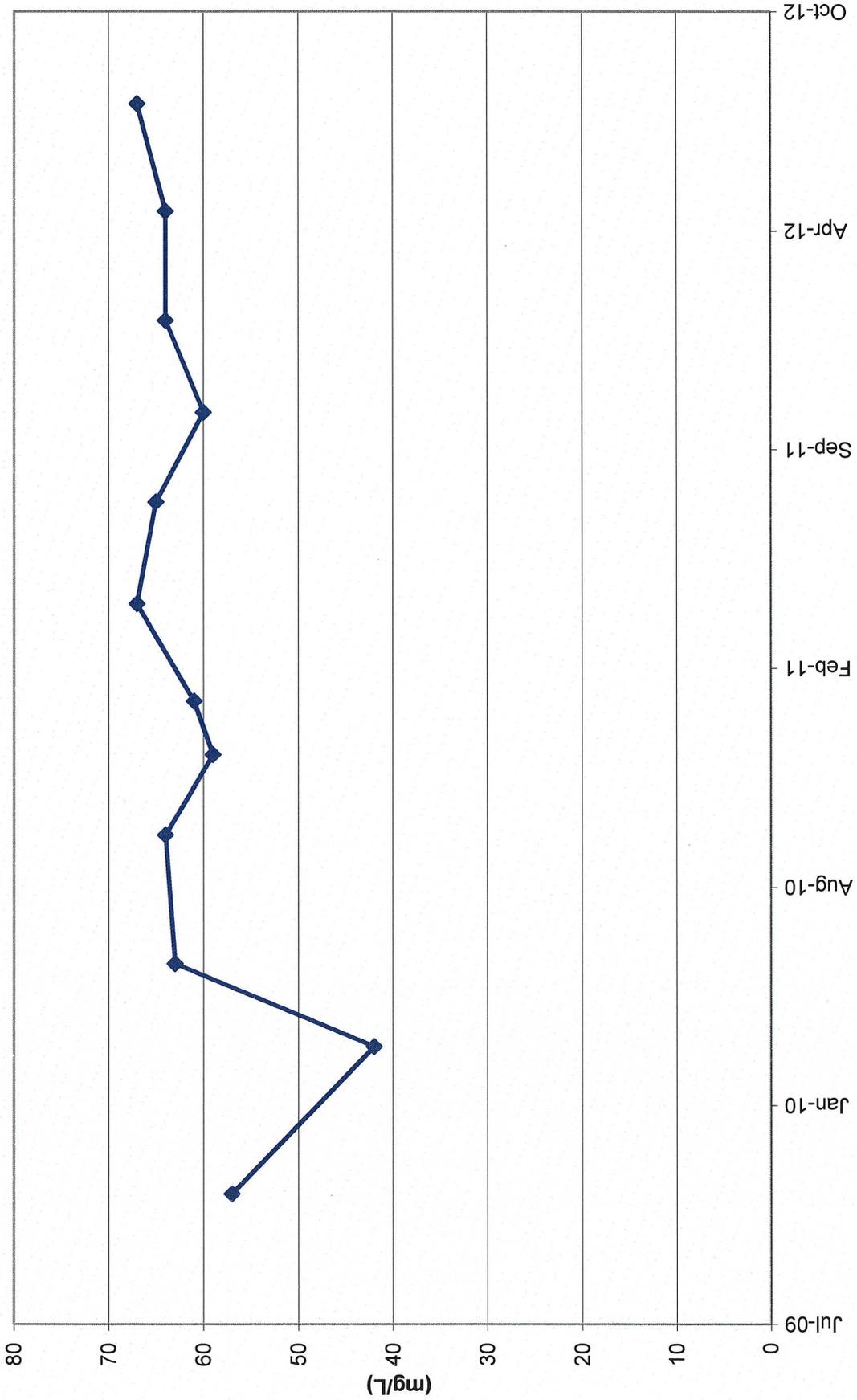
# TWN-17 Chloride Concentrations



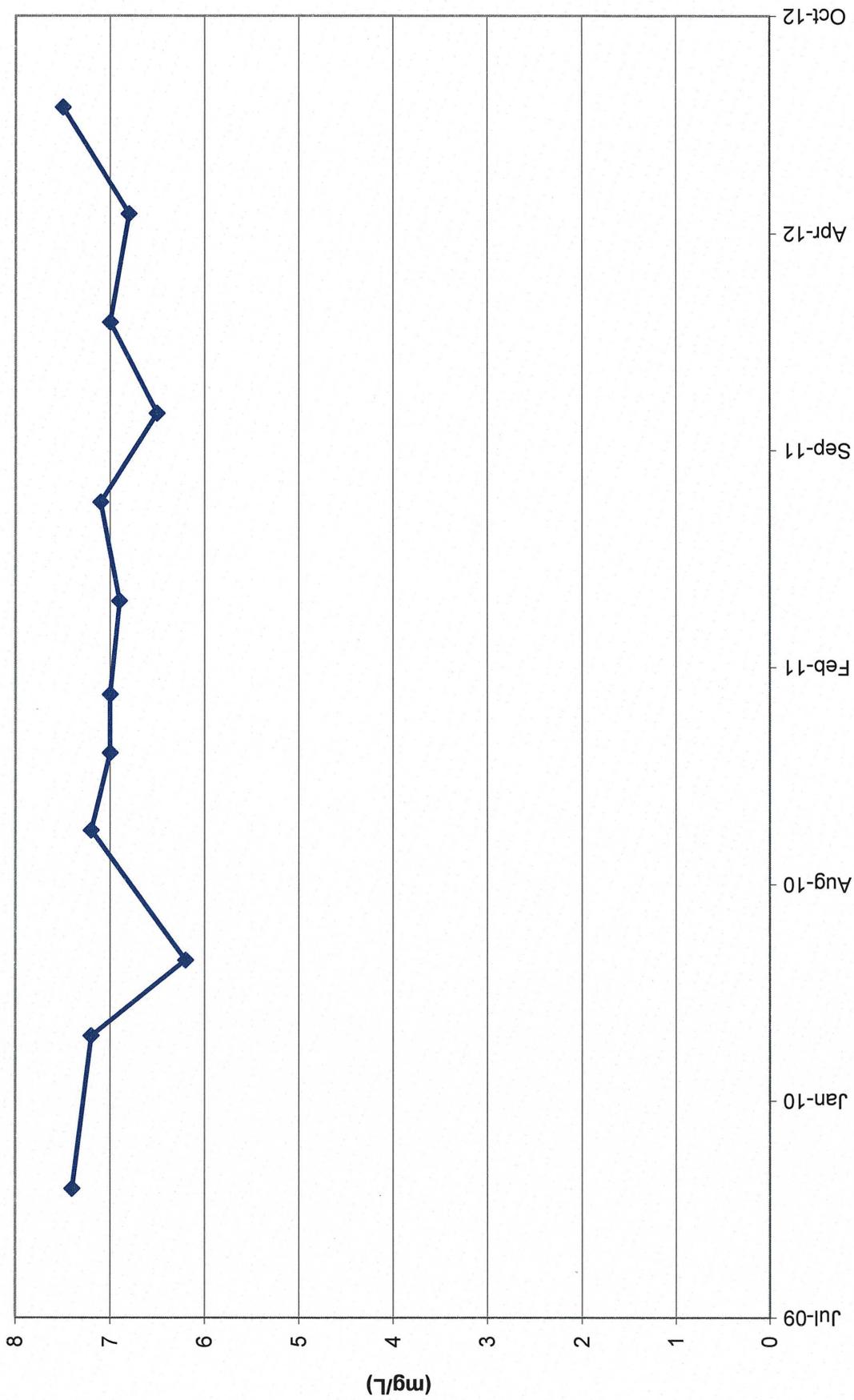
# TWN-18 Nitrate Concentrations



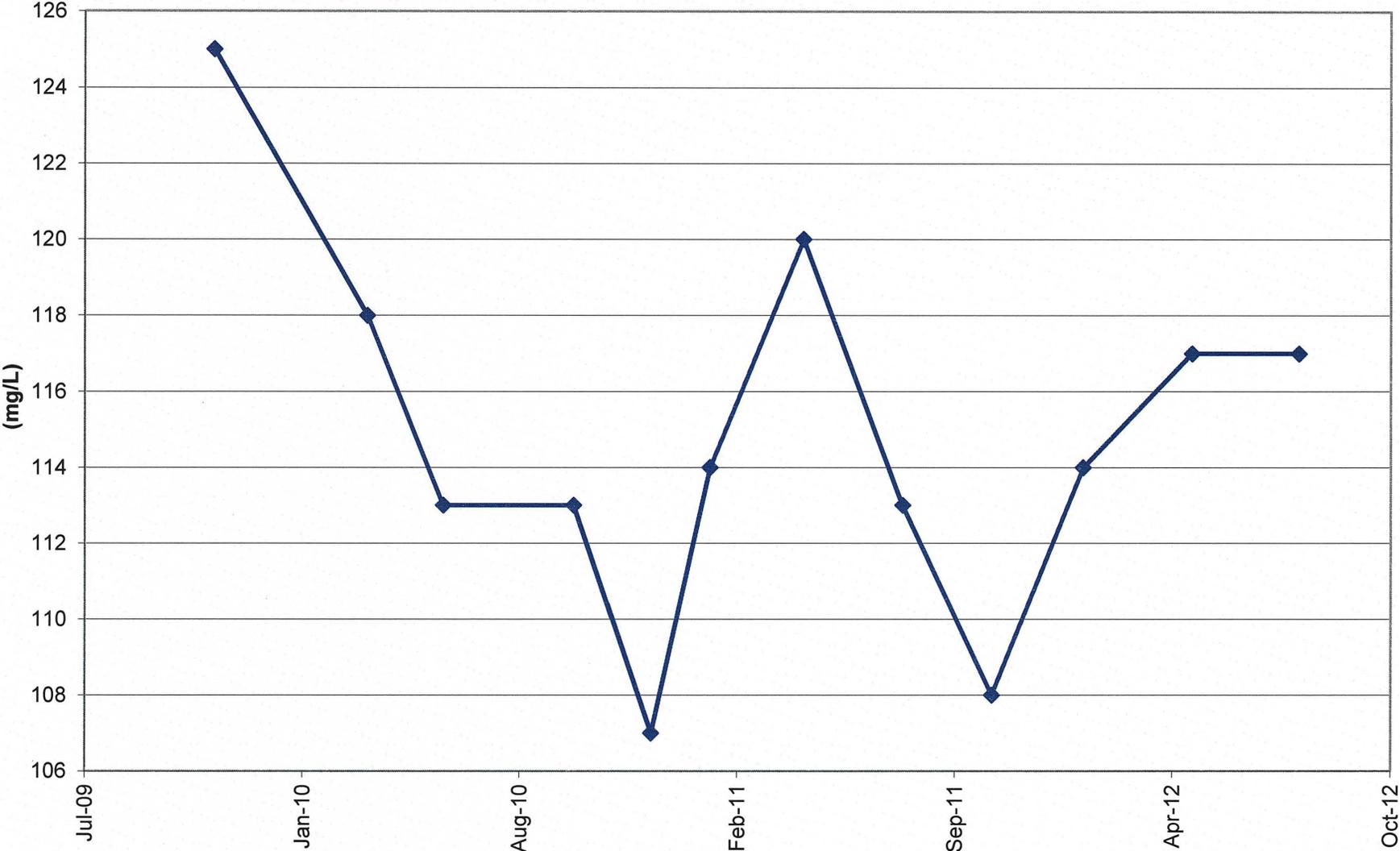
# TWN-18 Chloride Concentrations



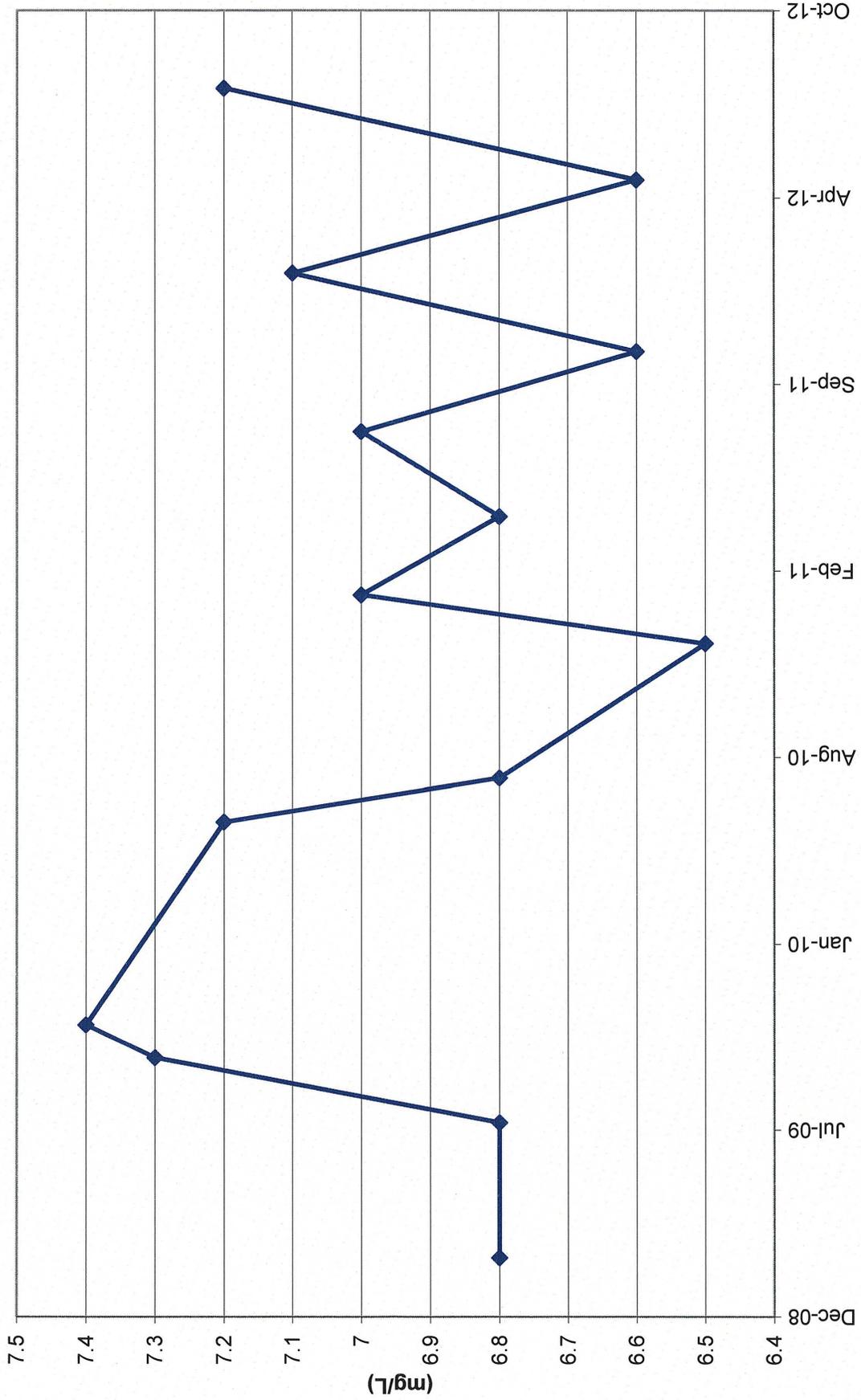
# TWN-19 Nitrate Concentrations



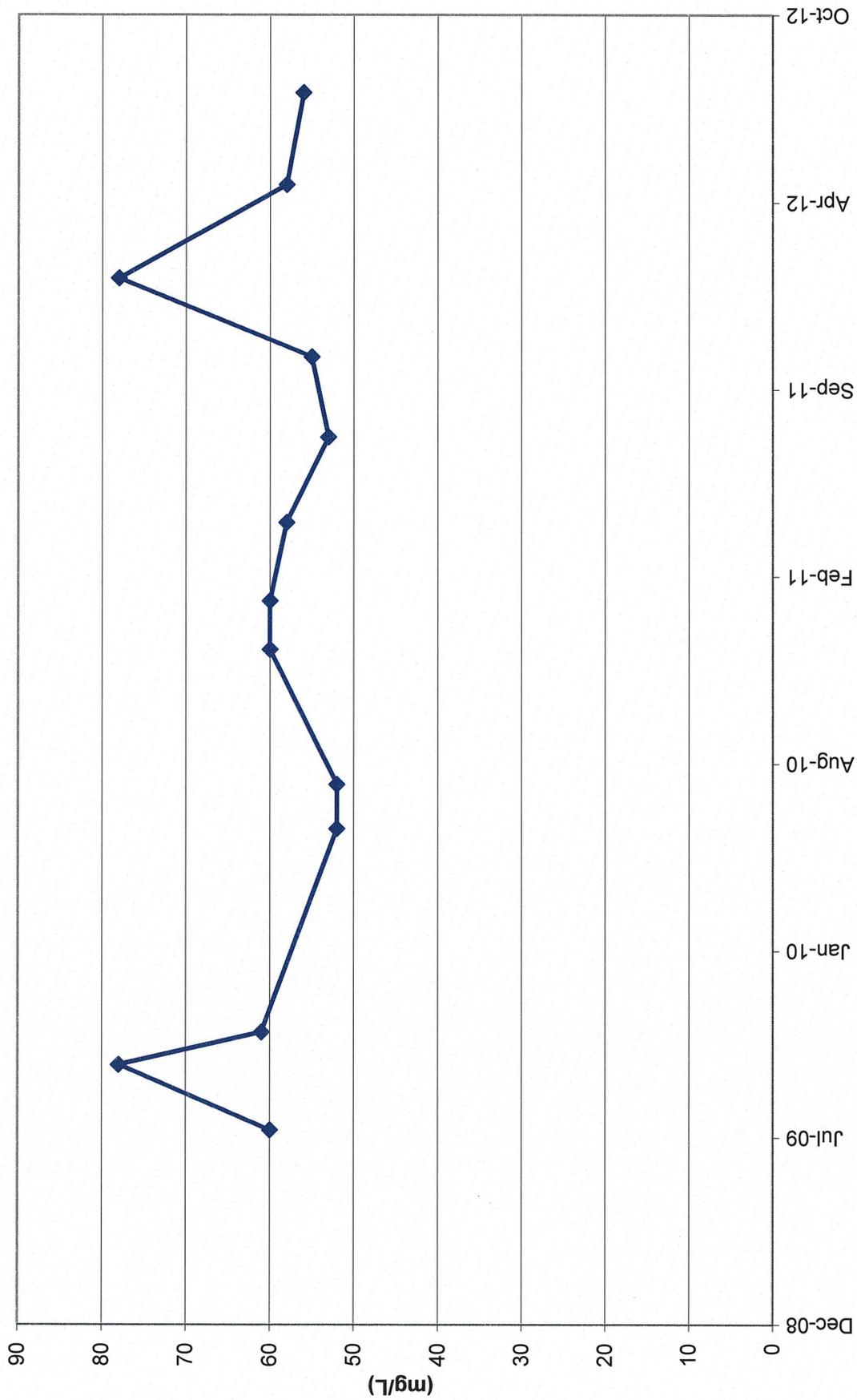
TWN-19 Chloride Concentrations



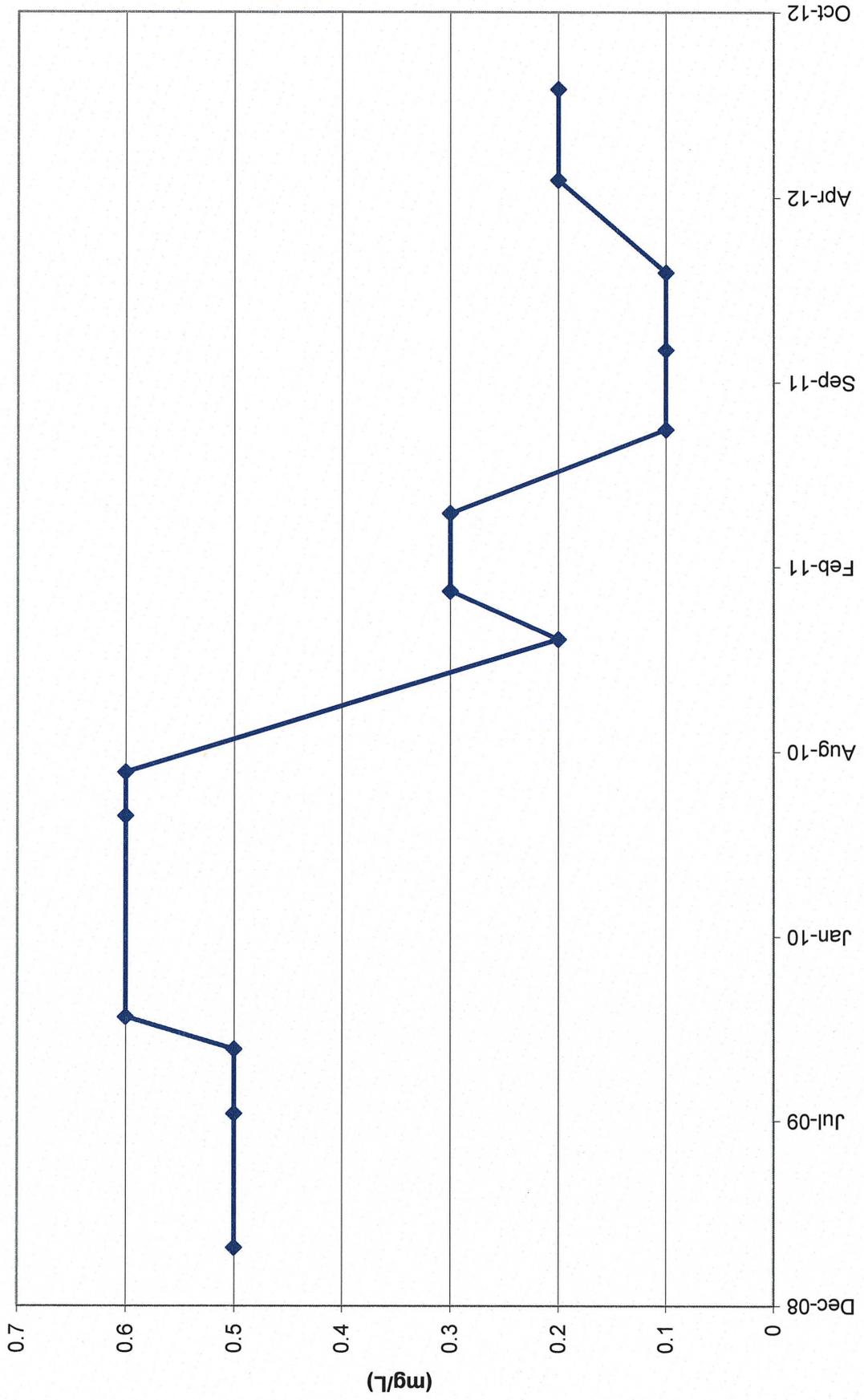
Piezometer 1 Nitrate Concentrations



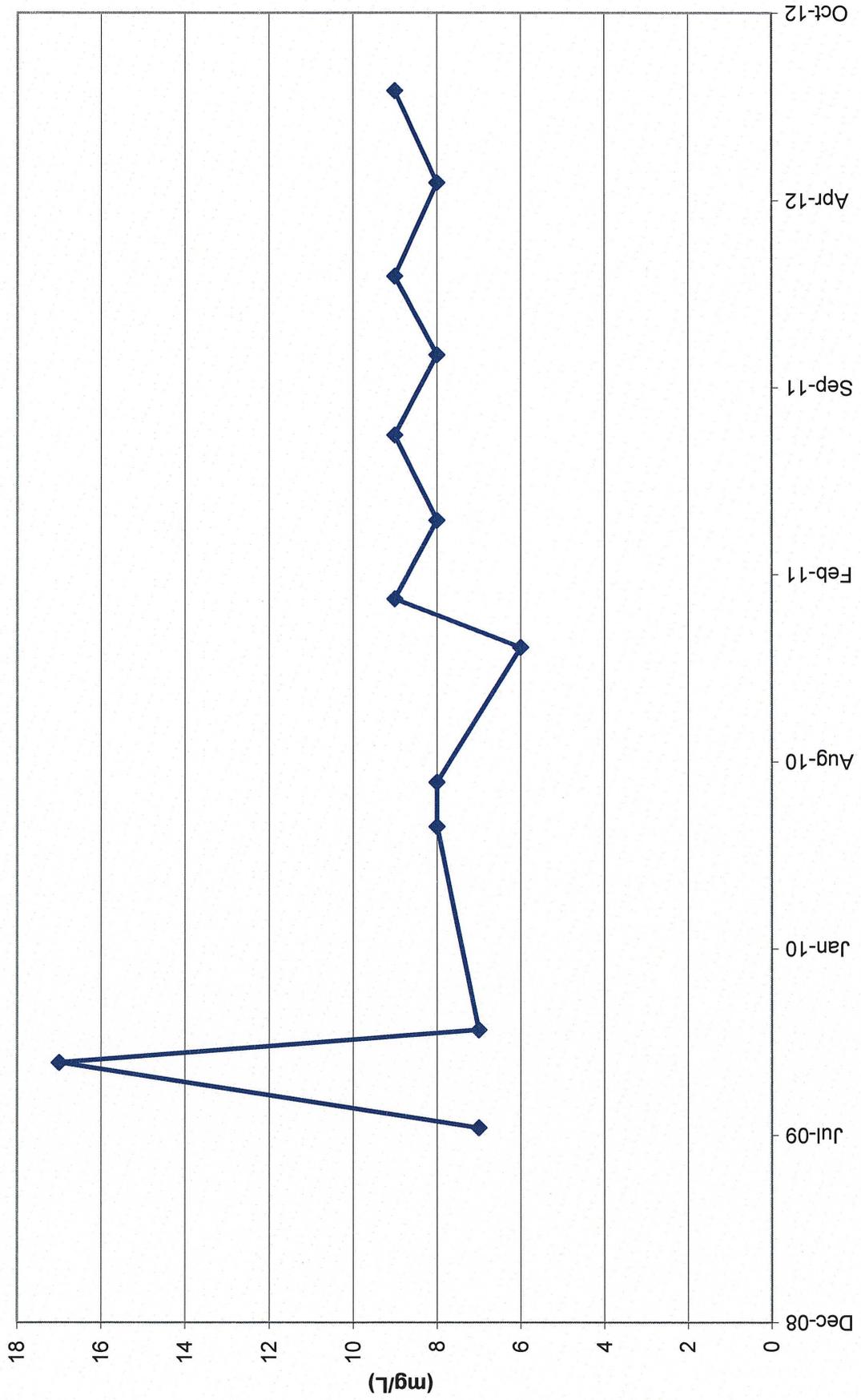
# Piezometer 1 Chloride Concentrations



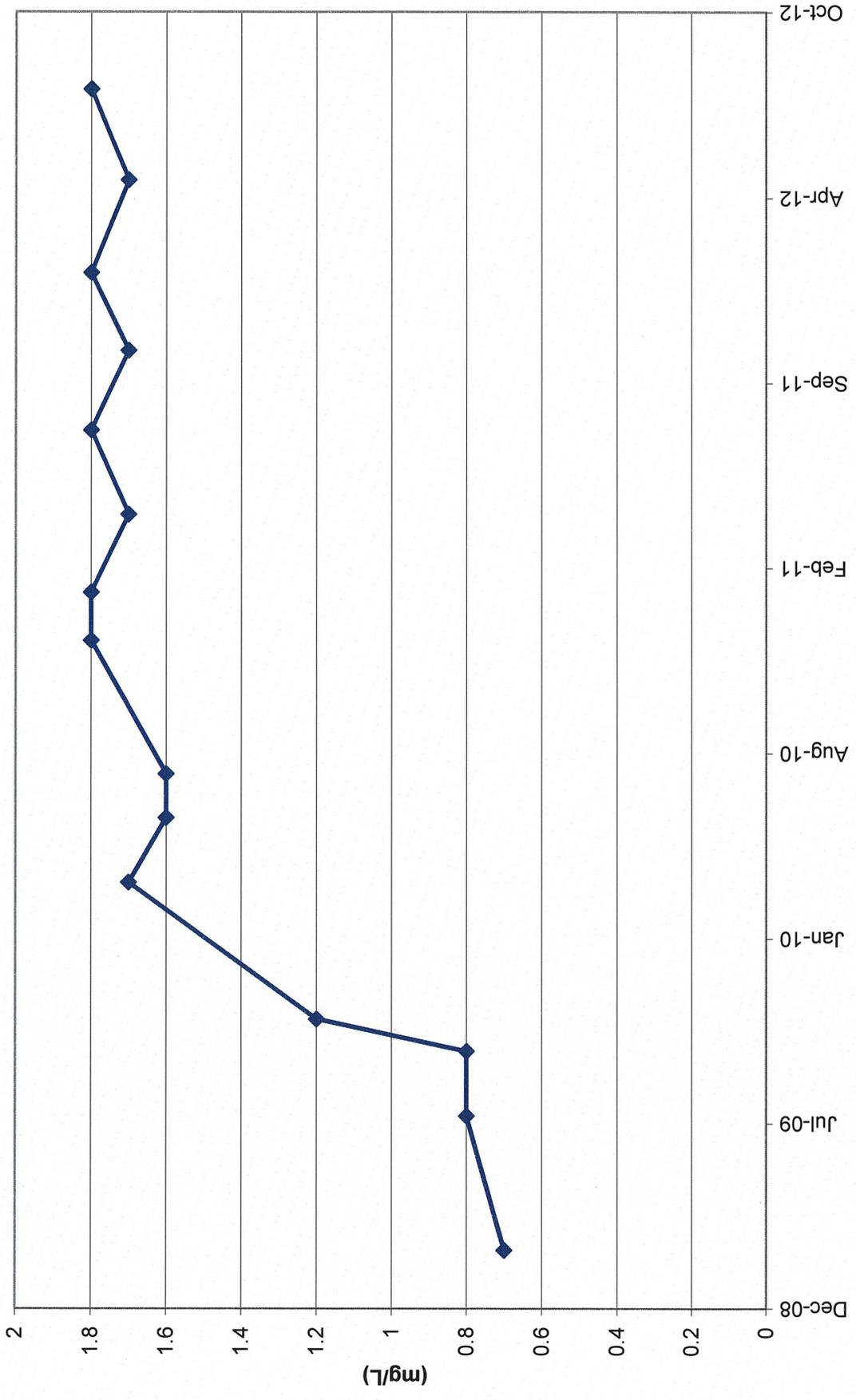
### Piezometer 2 Nitrate Concentrations



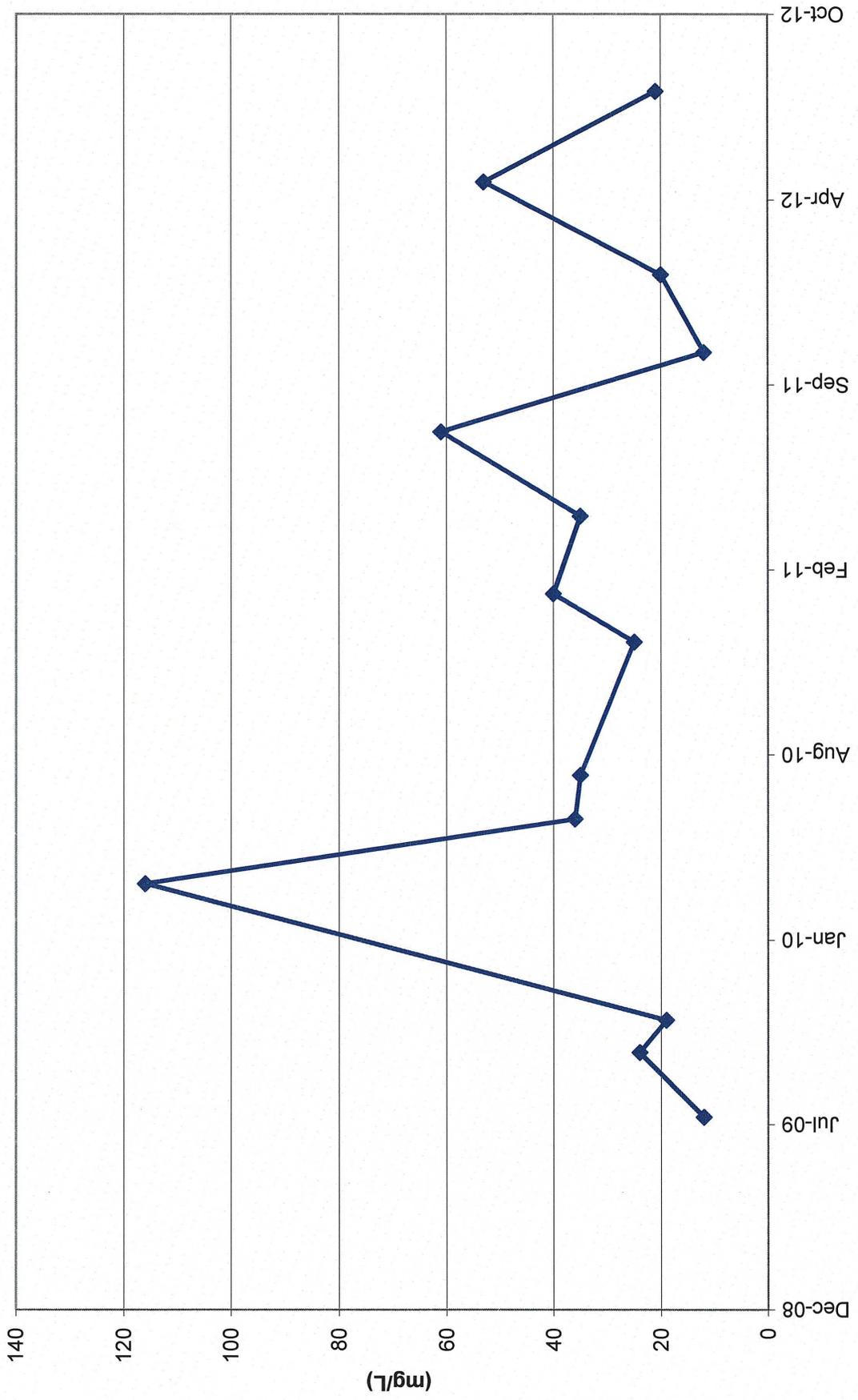
### Piezometer 2 Chloride Concentrations



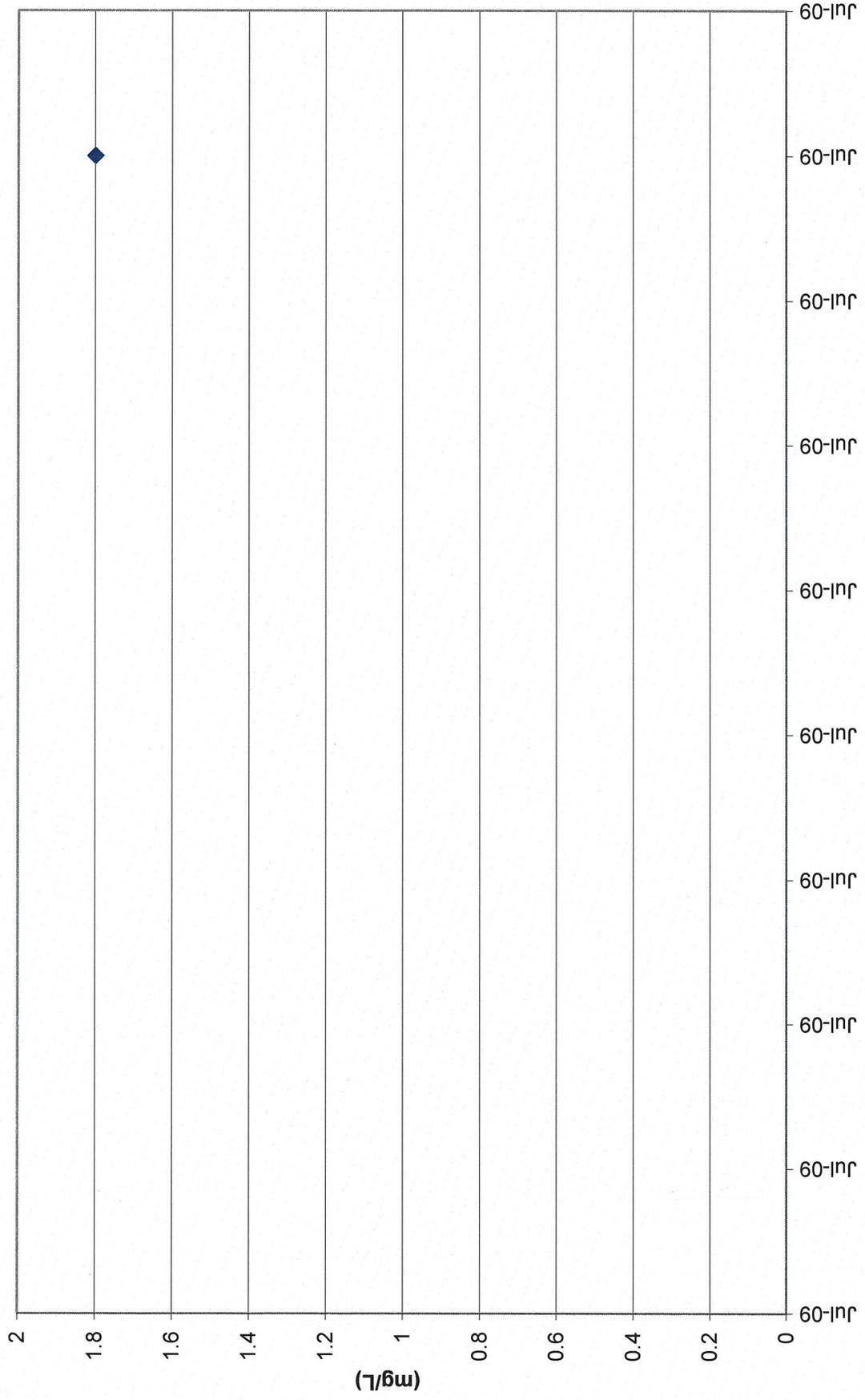
Piezometer 3 Nitrate Concentrations



# Piezometer 3 Chloride Concentrations

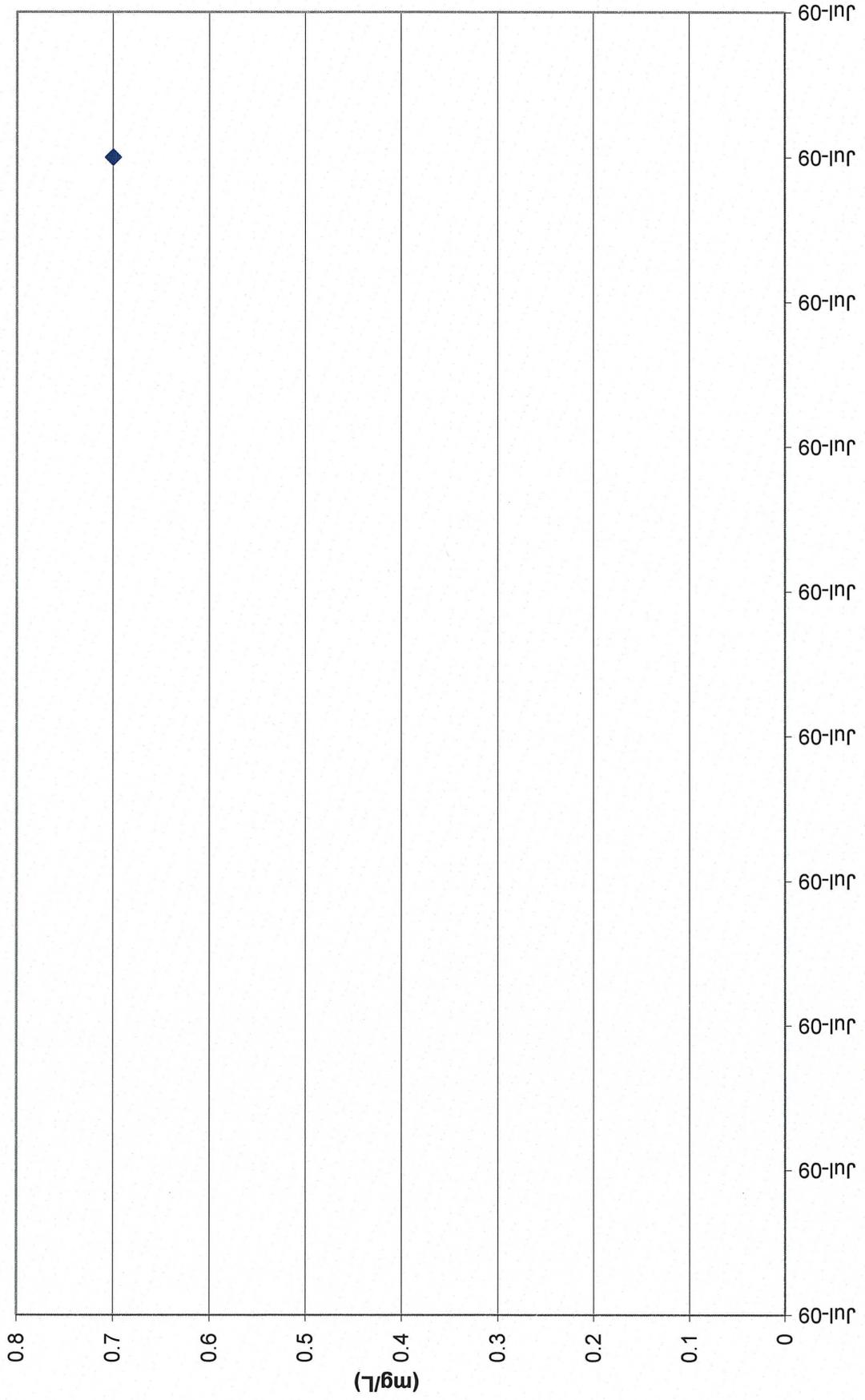


# Piezometer 4 Nitrate Concentrations



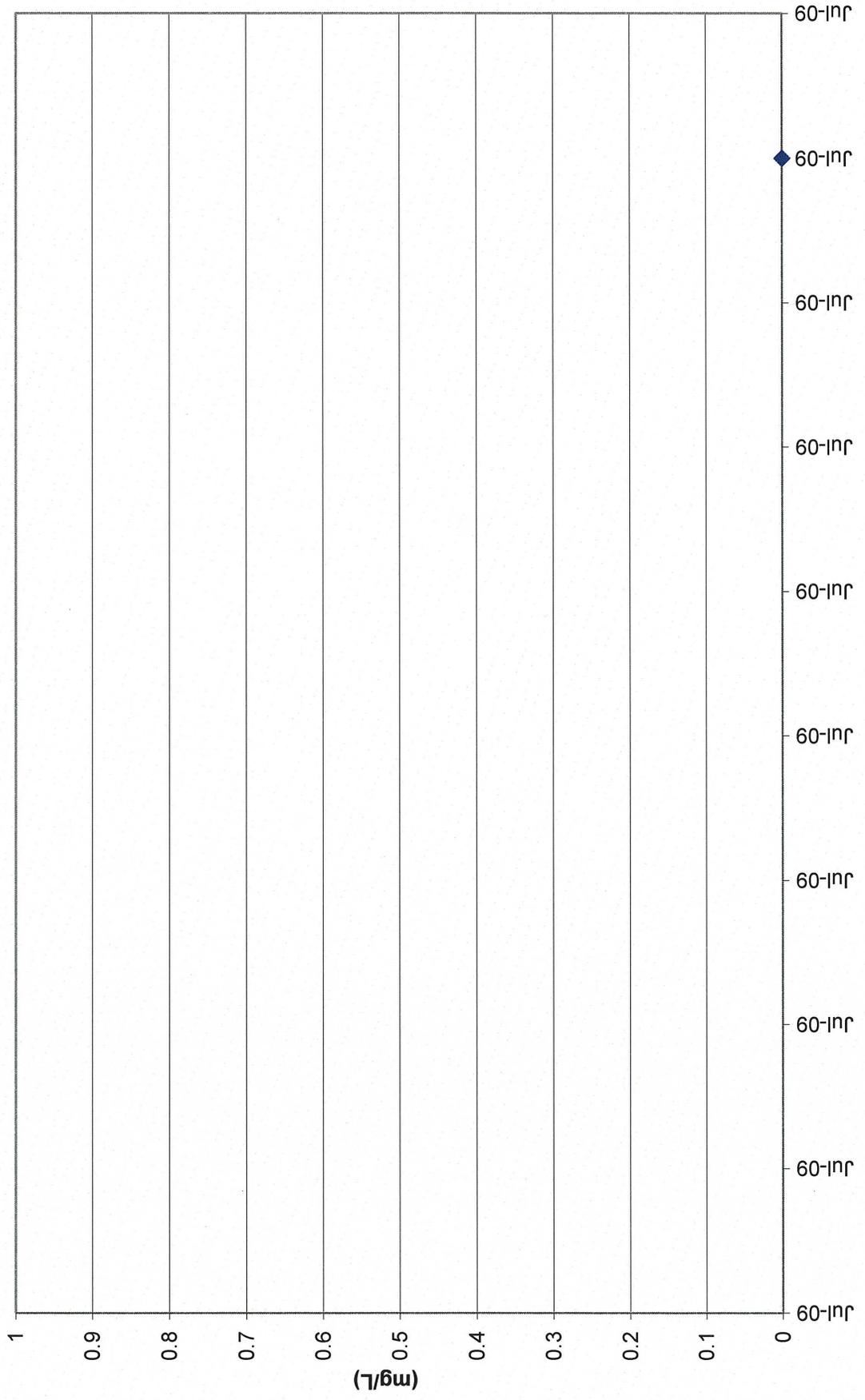


# Piezometer 5 Nitrate Concentrations

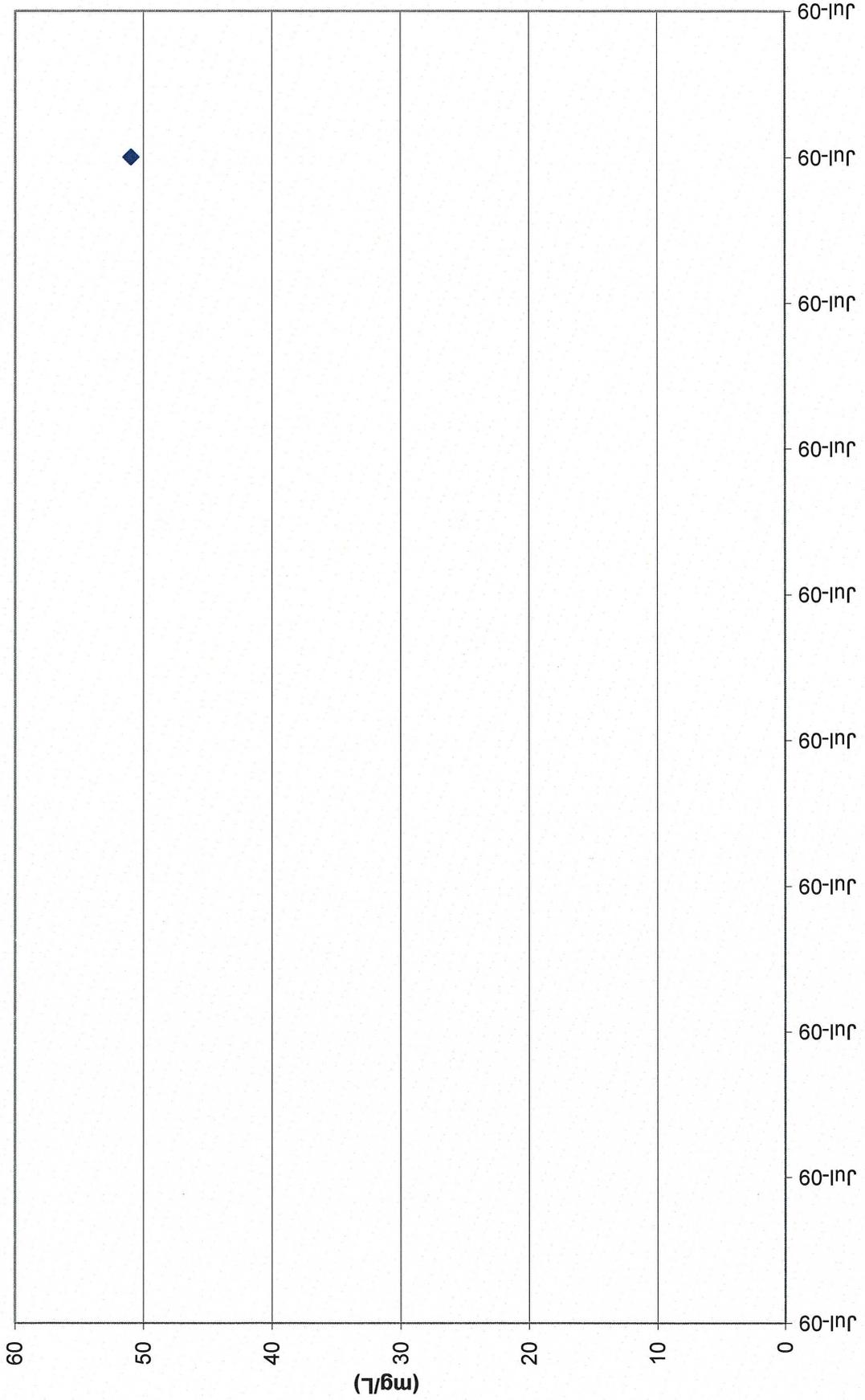




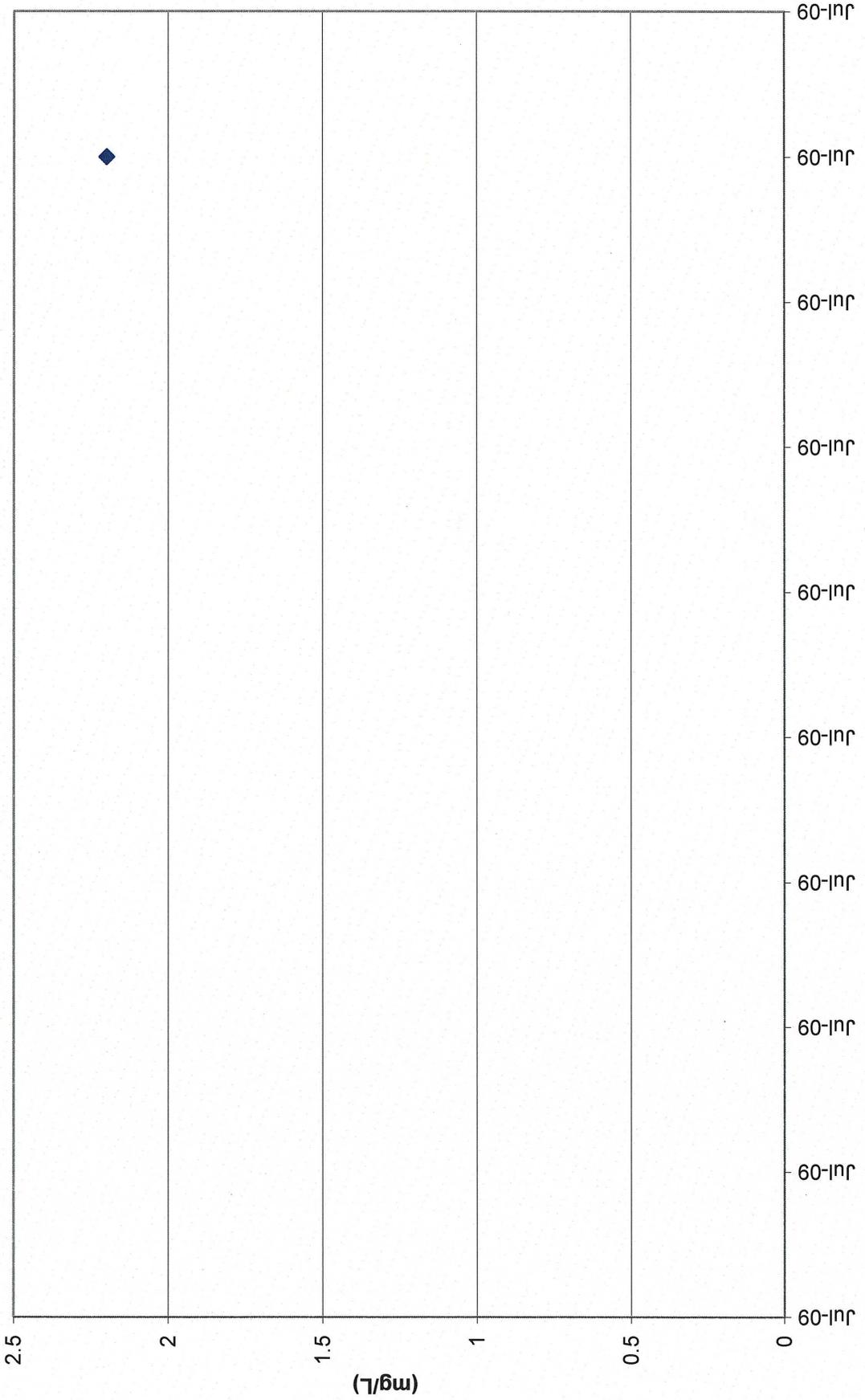
# MW-18 Nitrate Concentrations



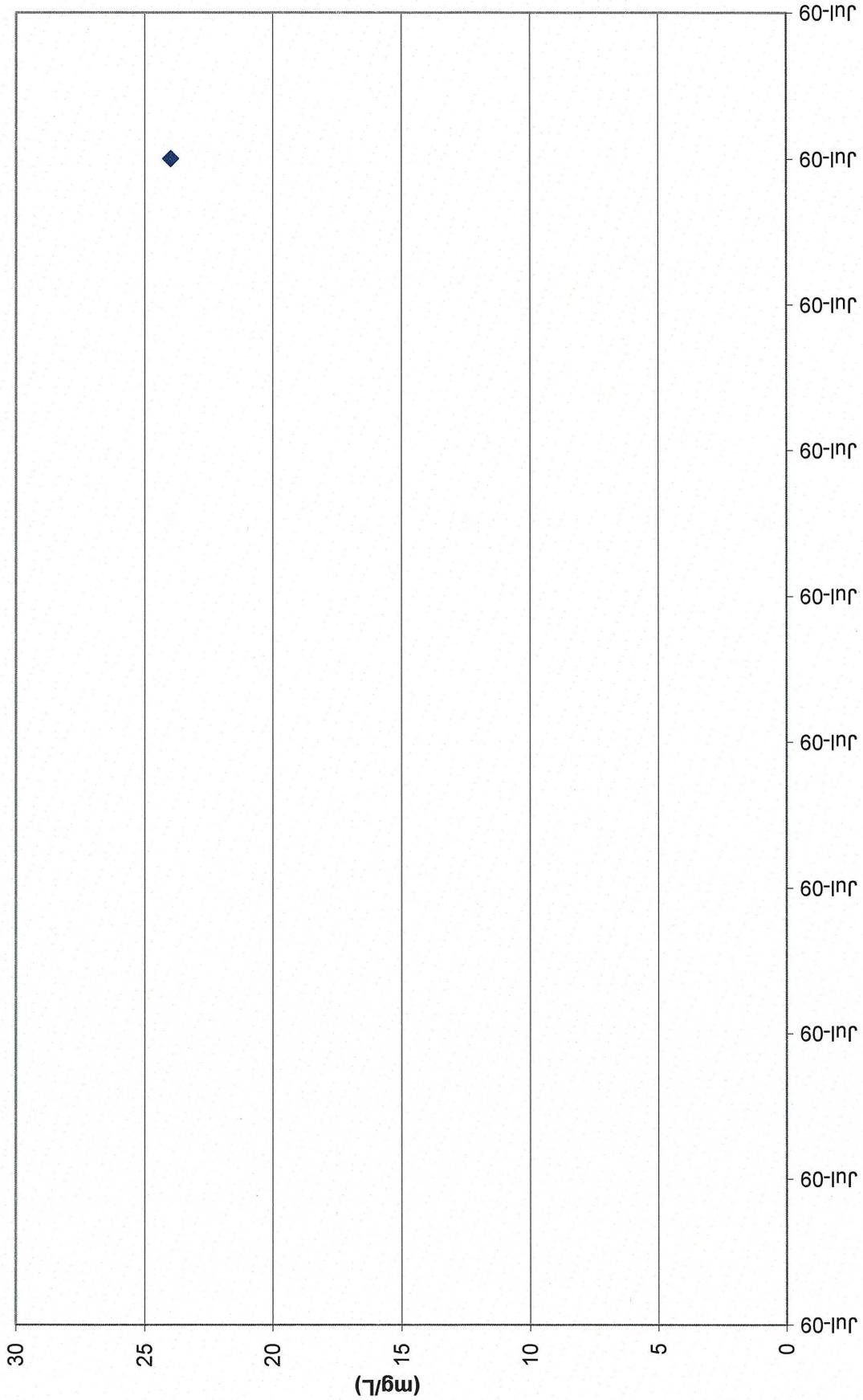
MW-18 Chloride Concentrations



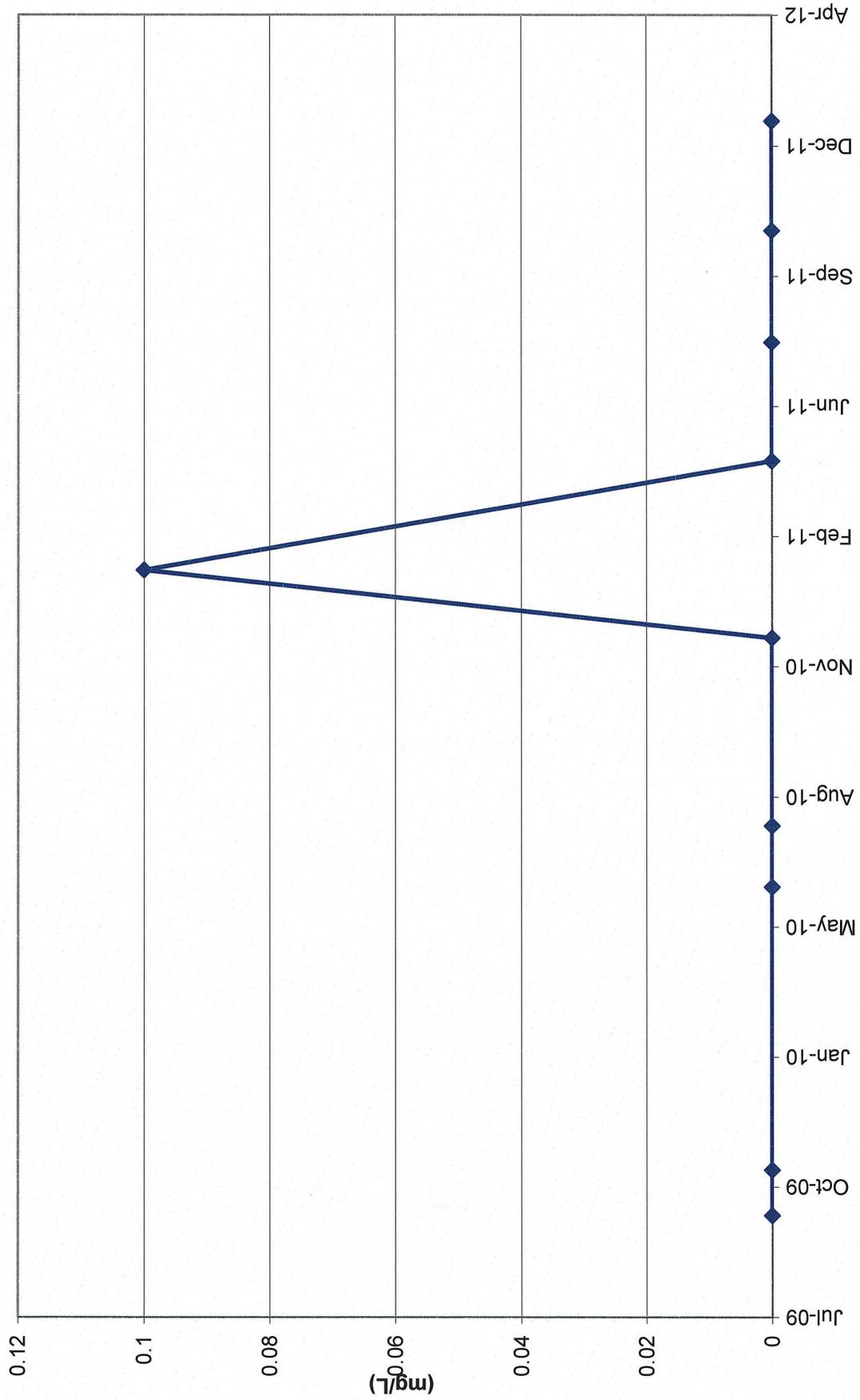
**MW-19 Nitrate Concentrations**



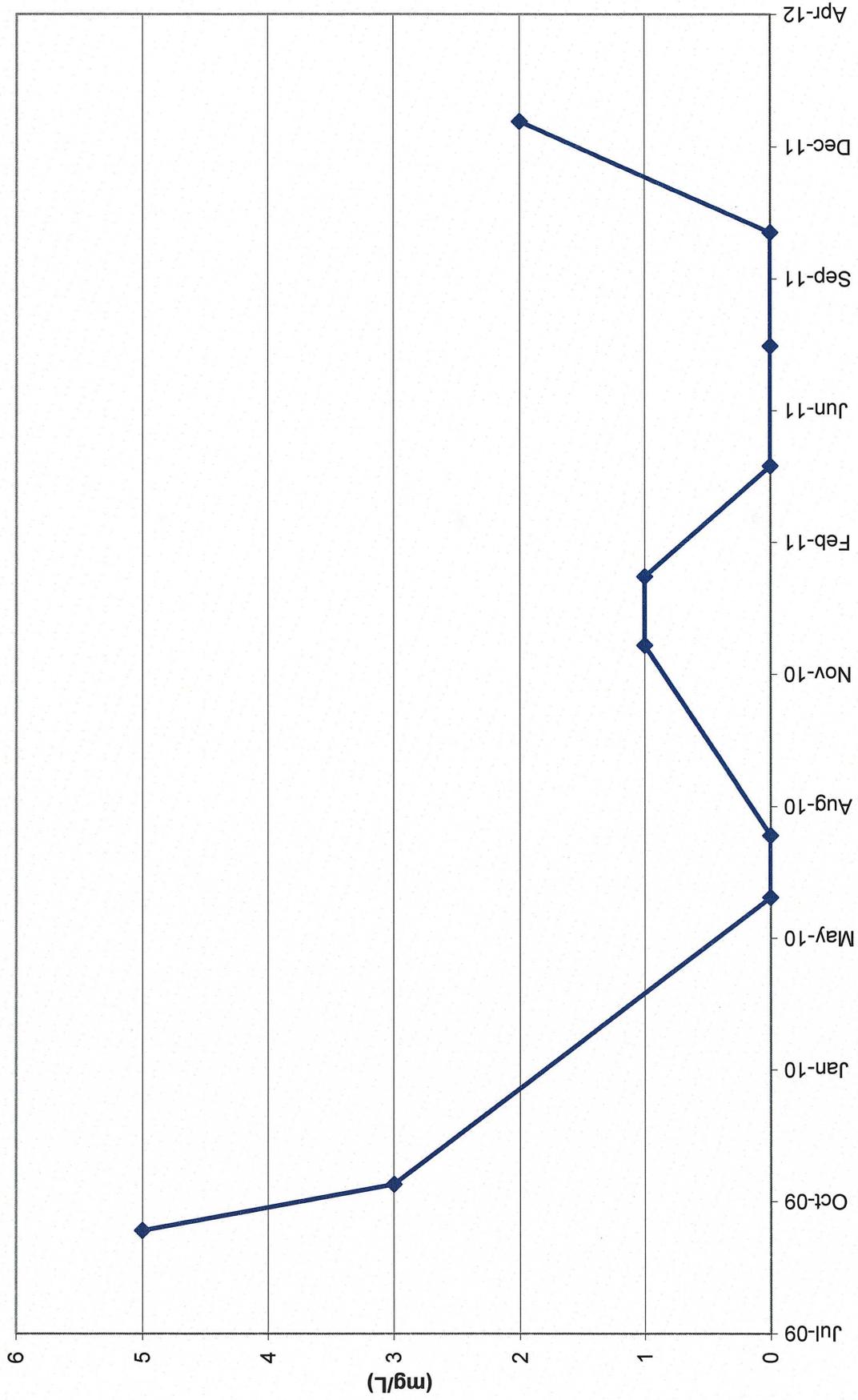
**MW-19 Chloride Concentrations**



# Upper Wildlife Pond Nitrate Concentrations



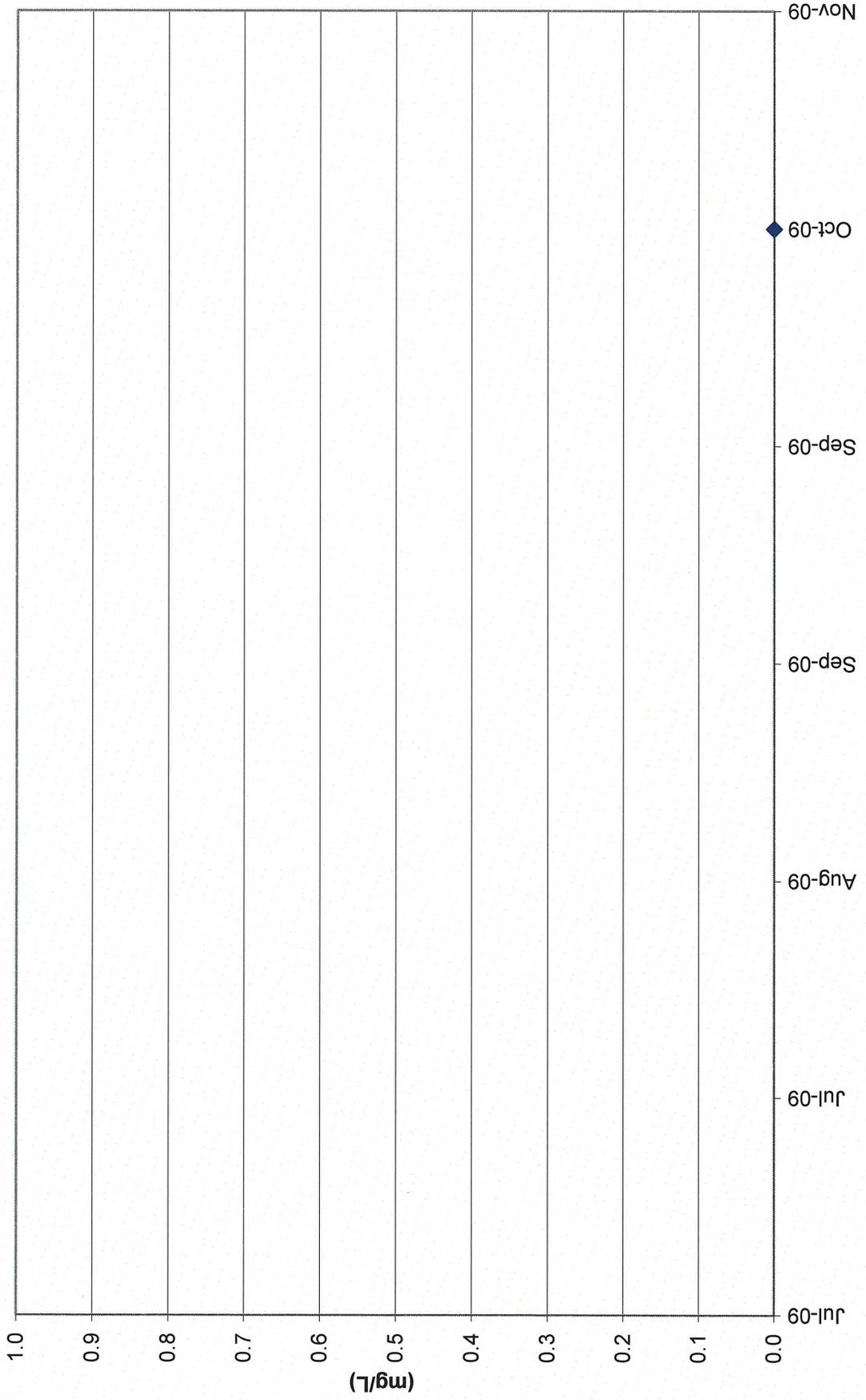
# Upper Wildlife Pond Chloride Concentrations



# Frog Pond Nitrate Concentrations



# Frog Pond Chloride Concentrations



Tab L

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Tuesday, November 27, 2012 3:27 PM  
**To:** 'rlundberg@utah.gov'  
**Cc:** 'Phillip Goble'; Harold Roberts; Jo Ann Tischler; David Frydenlund; Jaime Massey; David Turk; N. Tanner Holliday; Garrin Palmer  
**Subject:** Transmittal of CSV Files White Mesa Mill 2012 Q3 Nitrate Monitoring  
**Attachments:** C12080031.CSV

Dear Mr. Lundberg,

Attached to this e-mail are electronic copies of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the third 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