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November 18, 2013

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 2013 Nitrate Monitoring Report
Stipulation and Consent Order Docket Number UGW12-04 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 2013 as required by the Stipulation and Consent Order Docket Number UGW12-04, 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,

Kathy Weinel

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Quality Assurance Manager

cc: David C. Frydenlund
Dan Hillsten
Harold R. Roberts
David E. Turk
Frank Filas
Jo Ann Tischler
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)
2013

Prepared by:

Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
Lakewood, CO 80228

November 18, 2013

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ACRONYM LIST

AWAL	American West Analytical Laboratory
CA	Consent Agreement
CAP	Corrective Action Plan
CIR	Contamination Investigation Report
DIFB	Deionized Field Blanks
DRC	Utah Division of Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
ft amsl	feet above mean sea level
GWDP	Groundwater Discharge Permit
LCS	Laboratory Control Spike
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QAP	Groundwater Monitoring Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
SCO	Stipulated Consent Order
SOPs	Standard Operating Procedures
UDEQ	Utah Department of Environmental Quality
VOC	Volatile Organic Compounds

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 with the Utah Water Quality Board in January 2009 which directed the preparation of a Nitrate Contamination Investigation Report ("CIR"). A subsequent letter dated December 1, 2009, among other things, recommended that EFRI also address elevated chloride concentrations in the CIR. The Stipulated Consent Agreement was amended in August 2011. Under the amended Consent Agreement ("CA"), 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. On December 12, 2012, DRC signed the Stipulation and Consent Order ("SCO"), Docket Number UGW12-04, which approved the EFRI CAP, dated May 7, 2012. The SCO ordered EFRI to fully implement all elements of the May 7, 2012 CAP.

Based on the schedule included in the CAP and as delineated and approved by the SCO, all activities associated with the implementation of the CAP began in January, 2013. The reporting requirements specified in the CAP and SCO are included in this quarterly nitrate report.

This is the Quarterly Nitrate Monitoring Report, as required under the SCO, State of UDEQ Docket No. UGW12-04 for the 3rd quarter of 2013. This report meets the requirements of SCO, State of UDEQ Docket No. UGW12-04 and is the document which covers nitrate monitoring activities during the 3rd quarter of 2013.

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	TW4-24*
TWN-2	TW4-25*
TWN-3	Piezometer 1
TWN-4	Piezometer 2
TWN-7	Piezometer 3
TWN-18	
TW4-22*	

As discussed in Section 2.1.2 the analytical constituents required by the CAP are inorganic chloride and nitrate+nitrite as N (referred to as nitrate in this document)

* TW4-22, TW4-24, TW4-25 are chloroform investigation wells and are sampled as part of the chloroform program. The analytical suite for these three wells includes nitrate, chloride and a select list of Volatile Organic Compounds ("VOCs") as specified in the chloroform program. These three wells are included here because they are being pumped as part of the remediation of the nitrate contamination as required by the SCO and the CAP. The nitrate and chloride data are included in this report as well as in the chloroform program quarterly report. The VOC data for these three wells will be reported in the chloroform quarterly monitoring report only.

The December 12, 2012 SCO approved the CAP which specified the cessation of sampling in TWN-5, TWN-6, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-14, TWN-15, TWN-16, TWN-17, and TWN-19. Per the CAP and SCO, these wells were not sampled during this quarter. Additionally, the CAP and SCO approved the abandonment of TWN-5, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-15, and TWN-17 within 1 year of the SCO approval. These wells were abandoned in accordance with the DRC-approved Well Abandonment Procedure on July 31, 2013. TWN-6, TWN-14, TWN-16, and TWN-19 have been maintained for depth to groundwater monitoring only, as noted in the CAP.

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 the nitrate monitoring wells, TW4-22, TW4-24, TW4-25 and Piezometers 1, 2, and 3. Analytical data for all of the above-listed 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 White Mesa Mill Groundwater Quality Assurance Plan, ("QAP") Revision 7.2, dated June 6, 2012 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 ("GWDP") (dated 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 that were installed during the Southwest Hydrogeologic Investigation
- Nitrate wells TWN-01, TWN-02, TWN-03, TWN-04, TWN-06, TWN-07, TWN-14, TWN-16, TWN-18 and TWN-19

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. Field data sheets for groundwater measurements are also provided in Tab c.

Weekly and monthly depth to groundwater measurements were taken in the chloroform pumping wells MW-4, MW-26, TW4-19, TW4-20, and TW4-4, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2. In addition, monthly water level measurements were taken in non-pumping wells MW-27, MW-30, MW-31, TW4-21, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18 as required by the CAP.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

The QAP provides a detailed presentation of procedures utilized for groundwater sampling activities under the GWDP (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 nondetect wells and then move to the wells with detectable nitrate concentrations, progressing from the wells having the lowest nitrate contamination to wells with the highest 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 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% Relative Percent Difference ["RPD"])
3. Purging a well to dryness and stability (within 10% RPD) 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-dectect) 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.

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.

2.2.2 Piezometer Sampling

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, American West Analytical Laboratories ("AWAL").

2.3 Field Data

Attached under Tab B are copies of all Field Data Worksheets that were completed during the quarter for the nitrate 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 that 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 other 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 AWAL. 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 and a limited list of chloroform investigation nitrate and chloride results 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 CA 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 and discussed with DRC in 2011. Pursuant to the CA, the CAP was submitted to the Director of the Division of Radiation Control (the "Director") on May 7, 2012. The CAP describes activities associated with the nitrate in groundwater. The CAP was approved by the Director on December 12, 2012. This quarterly report documents the monitoring consistent with the program described in the CAP.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

EFRI's QA Manager performed a QA/Quality Control ("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 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, DI Field Blanks ("DIFB"), and equipment rinsate samples.

During the quarter, one duplicate sample was collected as indicated in Table 1. The duplicate was sent blind to the analytical laboratory and analyzed for the same parameters as the nitrate wells.

One rinsate blank sample was collected as indicated on Table 1. Rinsate samples are labeled with the name of the subsequently purged well with a terminal letter "R" added (e.g. TWN-7R).

The field QC sample results are included with the routine analyses under Tab G.

3.2 Adherence to Mill Sampling SOPs

The QA Manager review of Mill Personnel's adherence to the existing SOPs, confirmed that the QA/QC requirements established in the QAP and Chloroform QAP were met.

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 (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:

<u>Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)</u>
Wells TWN-01, TWN-04, and TWN-18 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.

<u>Purging a Well to Dryness and Stability of a Limited List of Field Parameters</u>
Wells TWN-03 and TWN-07 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. All field parameters for this requirement were stable within 10% RPD.

<u>Continuously Pumped Wells</u>
Wells TWN-02, TW4-22, TW4-24, and TW4-25 are continuously pumped wells. These wells are pumped on a set schedule per the remediation plan and are considered sufficiently evacuated to

immediately collect a sample. As previously noted, TW4-22, TW4-24, and TW4-25 are chloroform investigation wells and are sampled under the chloroform program. Data for nitrate and chloride are provided here for completeness purposes.

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 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 for wells purged to two casing volumes or to dryness. 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.

- Five 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 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.

3.4.4 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 several 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.

3.4.5 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 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 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.

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

3.4.6 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.

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 the samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab H. The data recoveries that are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries are above the acceptance limits and are indicative of matrix interference. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP 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 Laboratory Control Sample 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 laboratory-grade water 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 Reporting Limit.

3.4.7 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 $6^{o}C$ or lower. Sample temperatures checks are provided in Tab H. All samples were received within the required temperature limit.

3.4.8 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. Al rinsate and DIFB blank samples were non-detect for the quarter.

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.

The water level contour map indicates that perched water flow ranges from generally southwesterly beneath the Mill site and tailings cells to generally southerly along the eastern and western margins of White Mesa. Water level patterns northeast of the Mill site appear slightly different this quarter compared to last quarter due to the reduced number of water level measurements resulting from abandonment of several of the TWN-series wells.

Perched water mounding associated with the wildlife ponds locally changes the generally southerly perched water flow patterns. For example, northeast of the Mill site, mounding associated with wildlife ponds results in locally northerly flow near PIEZ-1. The impact of the mounding associated with the northern ponds, to which water has not been delivered since March, 2012, is diminishing and is expected to continue to diminish as the mound decays due to reduced recharge.

Not only has recharge from the wildlife ponds impacted perched water elevations and flow directions at the site, but the cessation of water delivery to the northern ponds, which are generally upgradient of the nitrate and chloroform plumes at the site, has resulted in changing conditions that are expected to impact constituent concentrations and migration rates within the plumes. Specifically, past recharge from the ponds has helped limit many constituent concentrations within the plumes by dilution while the associated groundwater mounding has increased hydraulic gradients and contributed to plume migration. Since use of the northern wildlife ponds ceased in March 2012, the reduction in recharge and decay of the associated groundwater mound are expected to increase many constituent concentrations within the plumes while reducing hydraulic gradients and acting to reduce rates of plume migration. EFRI and its consultants have raised the issues and potential effects associated with cessation of water delivery to the northern wildlife ponds during discussions with DRC in March 2012 and May 2013.

The impacts associated with cessation of water delivery to the northern ponds are expected to propagate downgradient (south and southwest) over time. Wells close to the ponds are generally expected to be impacted sooner than wells farther downgradient of the ponds. Therefore, constituent concentrations are generally expected to increase in downgradient wells close to the ponds before increases are detected in wells farther downgradient of the ponds. Although such increases are anticipated to result from reduced dilution, the magnitude and timing of the increases are difficult to predict due to the complex permeability distribution at the site and factors such as pumping and the rate of decay of the groundwater mound. The potential exists for some wells completed in higher permeability materials to be impacted sooner than some wells completed in lower permeability materials even though the wells completed in lower permeability materials may be closer to the ponds.

Localized increases in concentrations of constituents such as nitrate and chloride within and near the nitrate plume may occur even when the nitrate plume is under control based on the Nitrate CAP requirements. Ongoing mechanisms that can be expected to increase the concentrations of nitrate and chloride locally as a result of reduced wildlife pond recharge include but are not limited to:

1) Reduced dilution - the mixing of low constituent concentration pond recharge into existing perched groundwater will be reduced over time.
2) Reduced saturated thicknesses – dewatering of higher permeability layers receiving primarily low constituent concentration pond water will result in wells intercepting these layers receiving a smaller proportion of the low constituent concentration water.

The combined impact of the above two mechanisms may be especially evident at chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20; nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2; and non-pumped wells adjacent to the pumped wells. The overall impact is expected to be generally higher constituent concentrations in these wells over time until mass reduction resulting from pumping and natural attenuation eventually reduce concentrations. Short-term changes in concentrations at pumping wells and wells adjacent to pumping wells are also expected to result from changes in pumping conditions.

In addition to changes in the flow regime caused by wildlife pond recharge, perched flow directions are also locally influenced by operation of the chloroform and nitrate pumping wells. As shown in the detail water level map provided under Tab C well defined cones of depression are evident in the vicinity of all chloroform pumping wells except TW4-4, which began pumping in the first quarter of 2010. Although operation of chloroform pumping well TW4-4 has depressed the water table in the vicinity of TW4-4, a well-defined cone of depression is not clearly evident. The lack of a well-defined cone of depression near TW4-4 likely results from 1) variable permeability conditions in the vicinity of TW4-4, and 2) persistent relatively low water levels at adjacent well TW4-14.

Well-defined cones of depression are also not clearly evident near nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2, which started pumping during the first quarter of 2013, most likely because they have not had sufficient time to develop. Water level patterns near these wells are expected to be influenced by the presence of and the decay of the groundwater mound associated with the northern wildlife ponds, and by the persistently low water level elevation at TWN-7, which is located upgradient of the nitrate pumping wells. Although operation of the nitrate pumping system has not yet produced a well-defined impact on water levels, continued operation of the system is expected to produce a well-defined capture zone that will merge with and enhance the capture associated with the chloroform pumping system. The actual impact of nitrate pumping on the chloroform pumping system cannot be evaluated until more data are collected as part of routine monitoring.

As discussed above, variable permeability conditions is one likely reason for the lack of a well-defined cone of depression near chloroform pumping well TW4-4. Changes in water levels at wells immediately south of TW4-4 resulting from TW4-4 pumping are expected to be muted because TW4-4 is located at a transition from relatively high to relatively low permeability conditions south (downgradient) of TW4-4. The permeability of the perched zone at TW4-6 and TW4-26 (and recently installed well TW4-29) is approximately two orders of magnitude lower than at TW4-4. Any drawdown of water levels at wells immediately south of TW4-4 resulting from TW4-4 pumping is also difficult to determine because of the general, long-term increase in water levels in this area due to recharge from the wildlife ponds.

Water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet, respectively, between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to TW4-4 pumping) at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the increase in water level at TW4-6 has been reduced since the start of pumping at TW4-4 (first quarter of 2010) to approximately 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4 (note: hydrographs for these wells are provided in the quarterly Chloroform Monitoring Report, EFRI 2013). Water level elevations at these wells are eventually expected to be influenced by cessation of water delivery to the northern wildlife ponds as discussed above. Recharge from the southern wildlife pond is expected to continue to have an effect on water levels near TW4-4, but the effects related to recharge from the northern ponds is expected to diminish over time as water is no longer delivered to the northern ponds.

The lack of a well-defined cone of depression at TW4-4 is also influenced by the persistent, relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. For the current quarter, the water level at TW4-14 (approximately 5527.7 feet above mean sea level ["ft amsl"]) is approximately 12 feet lower than the water level at TW4-6 (approximately 5539.6 ft amsl) and 17 feet lower than at TW4-4 (approximately 5544.6 ft amsl) even though TW4-4 is pumping.

Well TW4-27 (installed south of TW4-14 in the fourth quarter of 2011) has a static water level of approximately 5527.0 ft amsl, similar to TW4-14 (approximately 5527.7 ft amsl). Prior to the installation of TW4-27, the persistently low water level at TW4-14 was considered anomalous because it appeared to be downgradient of all three wells TW4-4, TW4-6, and TW4-26, yet chloroform was not detected at TW4-14. Chloroform had apparently migrated from TW4-4 to TW4-6 and from TW4-6 to TW4-26 which suggested that TW4-26 was actually downgradient of TW4-6, and TW4-6 was actually downgradient of TW4-4, regardless of the flow direction implied by the low water level at TW4-14. The water level at TW4-26 (5538.9 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5539.6 feet amsl), and TW4-23 (5543.1 feet amsl), as shown in the detail water level map under Tab C.

Hydraulic tests indicate that the permeability at TW4-27 is an order of magnitude lower than at TW4-6 and three orders of magnitude lower than at TW4-4 (see Hydro Geo Chem, Inc. [HGC], September 20, 2010: Hydraulic Testing of TW4-4, TW4-6, and TW4-26, White Mesa Uranium Mill, July 2010; and HGC, November 28, 2011: Installation, Hydraulic Testing, and Perched Zone Hydrogeology of Perched Monitoring Well TW4-27, White Mesa Uranium Mill Near Blanding, Utah). The similar water levels at TW4-14 and TW4-27, and the low permeability estimate at TW4-27 suggest that both wells are completed in materials having lower permeability than nearby wells. The low permeability condition likely reduces the rate of long-term water level increase at TW4-14 and TW4-27 compared to nearby wells, yielding water levels that appear anomalously low. This behavior is consistent with hydraulic test data collected from recently installed wells TW4-29, TW4-30, and TW4-31 last quarter which indicate that the permeability of these wells is similar to that of TW4-6 and TW4-26, but an order of magnitude higher than that of TW4-27.

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 2013 to the water table contour maps for the previous quarter (second quarter of 2013) indicates similar patterns of drawdown related to operation of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19 and TW4-20. Although nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 were brought into operation during the first quarter of 2013, their impact on water level patterns is not yet clearly evident. As a result, 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 clearly evident, likely due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Reported decreases in water levels (increases in drawdown) of approximately 3 feet and nearly 2 feet occurred in chloroform pumping well MW-26 and nitrate pumping well TW4-25, respectively, and increases in water levels (decreases in drawdown) of approximately 2 feet occurred in chloroform pumping wells MW-4 and TW4-19, and of approximately 5 feet occurred in nitrate pumping well TW4-24. Changes in water levels at other pumping wells (chloroform pumping wells TW4-4 and TW4-20 and nitrate pumping wells TW4-22 and TWN-2) were less than 2 feet. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken. The quarterly Chloroform Monitoring Report provides additional details on water levels in these wells.

The decrease in water level (increase in drawdown) at chloroform pumping well MW-26 has slightly increased the apparent capture of this well relative to other pumping wells. Overall, the combined capture of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 is nearly the same as last quarter.

Water level decreases ranging from approximately 0.8 to 2.6 feet at Piezometers 2 and 3, and TWN-4, likely result from cessation of water delivery to the northern wildlife ponds as discussed in Section 4.1.1 and the consequent continuing decay of the associated perched water mound. The water level decrease of approximately 0.7 feet reported for TWN-1 is likely related to both decay of the perched water mound and operation of nitrate pumping well TW4-25.

At the southwest corner of the site, water level increases of nearly 4 feet occurred at MW-20 and approximately 6 feet at piezometer DR-21. Water was also reported to be present at the bottom of formerly dry piezometer DR-22.

4.1.3 Hydrographs

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

As noted in Section 2.1.1, nitrate wells TWN-05, TWN-08, TWN-09, TWN-10, TWN-11, TWN-12, TWN-13, TWN-15, and TWN-17 were abandoned in accordance with the DRC-approved Well Abandonment Procedure on July 31, 2013. The historic hydrographs are included this quarter for information purposes. No data will be added in future reports and the hydrographs will not be included in future quarterly reports unless requested by DRC.

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.

As noted in Section 2.1.1, nitrate wells TWN-05, TWN-08, TWN-09, TWN-10, TWN-11, TWN-12, TWN-13, TWN-15, and TWN-17 were abandoned in accordance with the DRC-approved

Well Abandonment Procedure on July 31, 2013. The historic measured depth to groundwater and groundwater elevation data are included this quarter for information purposes. No data will be added in future reports and the tables will not be included in future quarterly reports unless requested by DRC.

4.2 Effectiveness of Hydraulic Containment and Capture

4.2.1 Hydraulic Containment and Control

The CAP states that hydraulic containment and control will be evaluated in part based on water level data and in part on concentrations in wells downgradient of pumping wells TW4-22 and TW4-24.

Water level data will be used to evaluate flow patterns resulting from operation of nitrate pumping wells. Bounding stream tubes defining the capture zone of nitrate pumping wells will be generated from the kriged quarterly perched water level data. Hydraulic containment and control based on water level data will be considered successful per the CAP if the entire nitrate plume upgradient of TW4-22 and TW4-24 falls within the combined capture of the nitrate pumping wells. The CAP requires that EFRI evaluate the capture zones after four quarters of water level measurements have been taken, and will include the capture zone boundaries on figures in the quarterly nitrate monitoring report following the fourth quarter of water level measurements. The current quarter is the third quarter of data collected after the commencement of pumping the nitrate system. The capture zone maps will be generated after four quarters of data are collected and will be included in the fourth quarter 2013 report which will be submitted on or before March 1, 2014.

The CAP states that MW-5, MW-11, MW-30, and MW-31 are located downgradient of TW4-22 and TW4-24. MW-30 and MW-31 are within the plume near its downgradient edge and MW-5 and MW-11 are outside and downgradient of the plume. Per the CAP, hydraulic control based on concentration data will be considered successful if the concentrations of nitrate in MW-30 and MW-31 remain stable or decline, and concentrations of nitrate in downgradient wells MW-5 and MW-11 do not exceed the 10 mg/L standard.

Table 5 presents the nitrate concentration data for MW-30, MW-31, MW-5 and MW-11, which are down-gradient of pumping wells TW4-22 and TW4-24. Based on these data, the nitrate plume is under control.

The plume has not migrated downgradient to MW-11 because nitrate was not detected at MW-11. MW-5, located adjacent to MW-11(which was not required to be sampled this quarter for nitrate) was non-detect last quarter. Between the previous and current quarters, nitrate concentrations decreased slightly in both MW-30 and MW-31. Nitrate in MW-30 decreased from 18.8 mg/L to 17.6 mg/L and nitrate in MW-31 decreased from 23.8 mg/L to 21.7 mg/L. Changes in both wells were less than 20% suggesting the changes are within the range typical for sampling and analytical error. Although short-term fluctuations have occurred, nitrate concentrations in MW-30 and MW-31 have been relatively stable, demonstrating that plume migration is minimal or absent. The relative stability of chloride in these wells also supports minimal plume movement.

4.2.2 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.

4.2.3 Comparison of Areal Extent

Although changes in concentration have occurred in wells within the nitrate plume, the boundaries of the plume have not changed significantly since the last quarter, except that the kriged plume boundary now encompasses well TW4-18 due to an increase in concentration from approximately 9 to 12 mg/L between the previous and current quarters. This change, which resulted in a less than 5% increase in plume area compared to last quarter (and a less than 2.5% increase compared to the first quarter), likely results primarily from the cessation of water delivery to the northern wildlife ponds and the consequent decay of the associated groundwater mound. The reduction in low-nitrate recharge from the ponds appears to be having the anticipated effect of increased nitrate concentrations in wells downgradient of the ponds, which is the expected consequence of reduced dilution as discussed in Section 4.1.1.

Although such increases in concentration have been anticipated as the result of reduced dilution, the magnitude and timing of the increases are difficult to predict due to the measured variations in hydraulic conductivity at the site and other factors. Regardless of the specific causes of the increase, nitrate at TW4-18 is associated with the chloroform plume, is cross-gradient of the nitrate plume as defined in the CAP, and is within the capture zone of the chloroform pumping system (primarily chloroform pumping well MW-26). Perched water flow at TW4-18 is to the southwest in the same approximate direction as the main body of the nitrate plume.

With regard to chloroform, the boundary of the northern portion of the chloroform plume has moved slightly to the west toward nitrate pumping well TW4-24 since pumping began. Nitrate concentrations at the downgradient edge of the plume (MW-30 and MW-31) continue to be relatively stable, demonstrating that plume migration is minimal or absent. More details regarding the chloroform data and interpretation are included in the Quarterly Chloroform Report submitted under separate cover.

4.2.4 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.

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

As noted in Section 2.1.1, nitrate wells TWN-05, TWN-08, TWN-09, TWN-10, TWN-11, TWN-12, TWN-13, TWN-15, and TWN-17 were abandoned in accordance with the DRC-approved Well Abandonment Procedure on July 31, 2013. The historic trend data are included this quarter for information purposes. The tables for these wells will not be included in future quarterly reports unless requested by DRC.

4.2.5 Interpretation of Analytical Data

Comparing the nitrate analytical results to those of the previous quarter, as summarized in the tables included under Tab J, the following observations can be made for wells within and immediately surrounding the nitrate plume:

a) Nitrate concentrations have increased by more than 20% in the following wells compared to last quarter: TW4-10, TW4-18, TW4-19, TW4-24, TWN-1 and TWN-2;

b) Nitrate concentrations have decreased by more than 20% in the following wells compared to last quarter: TW4-5, TW4-21, TW4-22, TWN-3, and TWN-7;

c) Nitrate concentrations have remained within 20% in the following wells compared to last quarter: MW-27, MW-30, MW-31, TW4-20, TW4-25, TWN-4, and TWN-18;

d) MW-11, MW-25 and TW4-16 remained non-detect; and

e) MW-32 decreased from 0.1 mg/L to non-detect.

As indicated, nitrate concentrations for six of the wells with detected nitrate were within 20% of the values reported for the wells during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. The remaining wells (TW4-5, TW4-10, TW4-18, TW4-19, TW4-21, TW4-22, TW4-24, TWN-1, TWN-2, TWN-3, and TWN-7) had changes in concentration greater than 20%. Of the latter, TW4-19 is a chloroform pumping well, and TW4-22, TW4-24, and TWN-2 are nitrate pumping wells. TW4-18 is located adjacent to nitrate pumping well TW4-19 and TWN-7 is located adjacent to nitrate pumping well TWN-2. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1.

Nitrate pumping well TWN-2 had the highest detected nitrate concentration. Since the last quarter, the nitrate concentration in pumping well TWN-2 increased from approximately 58 mg/L to 80 mg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 12,500 µg/L to 9,640 µg/L. Chloroform changes are likely in response to the start-up of nitrate pumping in the first quarter and are affected by the presence of historically high chloroform concentrations at adjacent, cross-gradient well TW4-20. MW-27, located west of TWN-2, and TWN-18, located north of TWN-3, bound the nitrate plume to the west and north (See Figure I-1 under Tab I). In addition, the southernmost (downgradient) boundary of the plume remains between MW-30/MW-31 and MW-5/MW-11. Nitrate concentrations at MW-5 (adjacent to MW-11) and MW-11 have historically been low (< 1 mg/L) or non-detect for nitrate (See Table 5). MW-25, MW-26, MW-32, TW4-16, TW4-5, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east. As discussed above, the kriged plume boundary now encompasses well TW4-

18 due to an increase in concentration from 8.9 to 12.1 mg/L between the previous and current quarters. This change is likely to result primarily from the cessation of water delivery to the northern wildlife ponds and the consequent decay of the associated groundwater mound. The reduction in low-nitrate recharge from the ponds appears to be having the anticipated effect of increased nitrate concentrations in wells downgradient of the ponds, which is the expected consequence of reduced dilution as discussed in Section 4.1.1.

Nitrate concentrations outside the nitrate plume exceed 10 mg/L at a few locations: TW4-12 (17.4 mg/L), TW4-26 (11.7 mg/L), TW4-27 (27.2 mg/L), and TW4-28 (17.3 mg/L). TW4-10 also increased from less than 6 to 13 mg/L between the previous and current quarters. All these wells are located southeast of the nitrate plume as defined in the CAP and all but TW4-10 are separated from the plume by numerous wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at all of the above wells except TW4-10 are within 20% of their concentrations during the previous quarter. The increase at TW4-10 most likely results from the same factors that resulted in the increase at TW4-18, primarily reduced dilution from the northern wildlife ponds as discussed above. Nitrate at TW4-10 is also associated with the chloroform plume and is within the capture zone of the chloroform pumping system.

Chloride concentrations are measured because elevated chloride (greater than 100 mg/L) is associated with the nitrate plume. Chloride concentrations at all measured locations are within 20% of their respective concentrations during the previous quarter except at the following locations: TW4-10 (increased from 51.5 to 67.9 mg/L); TW4-18 (increased from 22.9 to 36.2 mg/L); TW4-22 (decreased from 586 mg/L to 487 mg/L); and TWN-1 (increased from 17.4 mg/L to 24.1 mg/L). TW4-22 is a nitrate pumping well; TW4-10 is adjacent to chloroform pumping well MW-26; TW4-18 is adjacent to chloroform pumping well TW4-19; and TWN-1 is adjacent to nitrate pumping well TW4-25. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping. Changes in concentrations in wells TW4-22 and TWN-1 are affected by the start-up of nitrate pumping during the first quarter. Increases in concentration at TWN-1, TW4-10 and TW4-18 are also expected to result from reduced dilution caused by cessation of water delivery to the northern wildlife ponds, and are consistent with increases in nitrate at these wells.

4.3 Estimation of Pumped Nitrate Mass and Residual Nitrate Mass within the Plume

Nitrate mass removed by pumping is summarized in Table 2, and includes mass removed by both chloroform and nitrate pumping wells. Table 3 shows the volume of water pumped at each well and Table 4 provides the details of the nitrate removal for each well. Mass removal calculations begin with the third quarter of 2010 because the second quarter, 2010 data were specified to be used to establish a baseline mass for the nitrate plume. As stated in the CAP, the baseline mass is to be calculated using the second quarter, 2010 concentration and saturated thickness data "within the area of the kriged 10 mg/L plume boundary." The second quarter, 2010 data set was considered appropriate because "the second quarter, 2010 concentration peak at TWN-2 likely identifies a high concentration zone that still exists but has migrated away from the immediate vicinity of TWN-2."

As shown in Table 2, a total of approximately 605 lb of nitrate has been removed from the perched zone since the third quarter of 2010. Prior to the current quarter, all direct nitrate mass removal resulted from operation of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20. During the current quarter:

- A total of approximately 176 lb of nitrate was removed by the chloroform pumping wells and by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2.
- Of the 176 lb removed during the current quarter, approximately 120 lb, (or 68 %), was removed by the nitrate pumping wells.

Baseline mass and current quarter mass estimates (nitrate + nitrite as N) for the nitrate plume are approximately 43,700 lb and 36,930 lb, respectively. Mass estimates were calculated within the plume boundaries as defined by the kriged 10 mg/L isocons by 1) gridding (kriging) the nitrate concentration data on 50-foot centers; 2) calculating the volume of water in each grid cell based on the saturated thickness and assuming a porosity of 0.18; 3) calculating the mass of nitrate+nitrite as N in each cell based on the concentration and volume of water for each cell; and 4) totaling the mass of all grid cells within the 10 mg/L plume boundary. Data used in these calculations included data from wells listed in Table 3 of the CAP.

The nitrate mass estimate for the current quarter is lower than the baseline estimate by 6,770 lb, and this difference is greater than the amount of nitrate mass removed directly by pumping. Changes in the quarterly mass estimates are expected to result primarily from 1) nitrate mass removed directly by pumping, 2) natural attenuation of nitrate, and 3) changes in nitrate concentrations in wells within the plume as a result of re-distribution of nitrate within the plume and changes in saturated thicknesses. Redistribution of nitrate within the plume and changes in saturated thicknesses will be impacted by changes in pumping and in background conditions such as the decay of the perched water mound associated with the northern wildlife ponds. Cessation of water delivery to the northern wildlife ponds is expected to result in reduced saturated thicknesses and reduced dilution, which in turn is expected to result in increases in concentrations.

The mass estimate during the current quarter (36,930 lb) was larger than the mass estimate during the previous quarter (34,142 lb) by 2,788 lb, or approximately 8 %. The reasons for the difference were 1) higher nitrate concentrations measured in some wells within the plume this quarter compared to last quarter and 2) a slightly larger plume area this quarter compared to last quarter. As discussed in Section 4.2.3, the kriged plume boundary now encompasses well TW4-18 due to an increase in concentration from 8.9 to 12.1 mg/L between the previous and current quarters. This change is likely to result primarily from the cessation of water delivery to the northern wildlife ponds and the consequent decay of the associated groundwater mound. The reduction in low-nitrate recharge from the ponds appears to be having the anticipated effect of increased nitrate concentrations in wells downgradient of the ponds which is the expected consequence of reduced dilution.

Nitrate mass removal by pumping and natural attenuation acts to lower nitrate mass within the plume. Changes resulting from redistribution of nitrate within the plume are expected to result in both increases and decreases in concentrations at wells within the plume and therefore increases and decreases in mass estimates based on those concentrations, thus generating 'noise' in the mass estimates. Furthermore, because the sum of sampling and analytical error is typically about 20%, changes in the mass estimates from quarter to quarter of up to 20% could result from typical sampling and analytical error alone. Only longer-term analyses of the mass estimates that minimize the impact of these quarter to quarter variations will provide useful information on plume mass trends. Over the long term, nitrate mass estimates are expected to trend downward as a result of direct removal by pumping and through natural attenuation.

As specified in the CAP, once eight quarters of data have been collected (starting with the first quarter of 2013), a regression trend line will be applied to the quarterly mass estimates and evaluated. The trend line will then be updated quarterly and reevaluated as additional quarters of data are collected. The evaluation will determine whether the mass estimates are increasing, decreasing, or stable.

5.0 LONG TERM PUMP TEST AT TWN-02, TW4-22, TW4-24, and TW4-25 OPERATIONS REPORT

5.1 Introduction

Beginning in January 2013, EFRI began long term pumping of TW4-22, TW4-24, TW4-25, and TWN-02 as required by the Nitrate CAP, dated May 7, 2012 and the SCO dated December 12, 2012.

In addition, as a part of the investigation of chloroform contamination at the Mill site, EFRI has been conducting a Long Term Pump Test on MW-4, TW4-19, MW-26, and TW4-20, and, since January 31, 2010, TW4-4. The purpose of the test is to serve as an interim action that will remove a significant amount of chloroform-contaminated water while gathering additional data on hydraulic properties in the area of investigation.

Because wells MW-4, TW4-19, MW-26, TW4-4 and TW4-20 are pumping wells that may impact the removal of nitrate, they will be included in this report and any nitrate removal realized as part of this pumping will be calculated and included in this and all future nitrate quarterly reports.

The following information documents the operational activities during the quarter.

5.2 Pumping Well Data Collection

Data collected during the quarter included the following:

- Measurement of water levels at MW-4, TW4-19, MW-26, and TW4-20 and, commencing regularly on March 1, 2010, TW4-4, on a weekly basis, and at selected temporary wells and permanent monitoring wells on a monthly basis.
- Measurement of pumping history, including:
  - pumping rates
  - total pumped volume
  - operational and non-operational periods.

- Periodic sampling of pumped water for chloroform and nitrate/nitrite analysis and other constituents
- Measurement of water levels weekly at TW4-22, TW4-24, TW4-25, and TWN-02 commencing January 28, 2013, and on a monthly basis selected temporary wells and permanent monitoring wells.

5.3 Water Level Measurements

Beginning August 16, 2003, water level measurements from chloroform pumping wells MW-4, MW-26, and TW4-19 were conducted weekly. From commencement of pumping TW4-20, and regularly after March 1, 2010 for TW4-4, water levels in these two chloroform pumping wells have been measured weekly. From commencement of pumping in January 2013, water levels in wells TW4-22, TW4-24, TW4-25, and TWN-02 have been measured weekly. Copies of the weekly Depth to Water monitoring sheets for MW-4, MW-26, TW4-19, TW4-20, TW4-4, TW4-22, TW4-24, TW4-25 and TWN-02 are included under Tab C.

Monthly depth to water monitoring is required for all of the chloroform contaminant investigation wells and non-pumping wells MW-27, MW-30, MW-31, TW4-21, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18. Copies of the monthly depth to Water monitoring sheets are included under Tab C.

5.4 Pumping Rates and Volumes

The pumping wells do not pump continuously, but are on a delay device. The wells purge for a set amount of time and then shut off to allow the well to recharge. Water from the pumping wells is either transferred to the Cell 1 evaporation pond or is used in the Mill process.

The pumped wells are fitted with a flow meter which records the volume of water pumped from the well in gallons. The flow meter readings shown in Tab C are used to calculate the gallons of water pumped from the wells each quarter as required by Section 7.2.2 of the CAP. The average pumping rates and quarterly volumes for each of the pumping wells are shown in Table 3. The cumulative volume of water pumped from each of the wells is shown in Table 4.

No operational problems were observed with the wells or pumping equipment during the quarter, however, two items were noted during the quarter as described below.

5.4.1 Weather Event of September 18, 2013

The Mill experienced combined rainstorm/hailstorms on September 17 and 18, 2013. During the September 18, 2013 storm, the Mill received nearly the highest daily precipitation in its history, specifically 0.76 inches of rainfall and hail within 10 minutes, as measured by the Mill's on-site meteorological station. The September 17 and 18, 2013 rainfall was accompanied by hail ranging up to 4 centimeters in diameter. As a result of damage and flooding to the electrical substation, power to the Mill was interrupted for less than 24 hours. The power outage ultimately interrupted pumping of all chloroform and nitrate pumping wells for less than 24 hours. EFRI provided an informal notification to DRC on September 19, 2013 to alert them to the potential that the chloroform and nitrate pumping equipment was out of service due to power loss. The power was restored in less than 24 hours, and notifications to DRC were not required.

5.4.2 TW4-20 and TW4-24

During the weekly check of the pumping wells on July 2, 2013 the Mill Environmental Staff noted a decreased flow rate in pumping wells TW4-20 and TW4-24 due to multiple wells pumping at the same time. Mill Environmental Staff noted that they changed the timer on TW4-24 so that the well pumps at different times from other wells in the pumping network to maximize the pumping efficiency of the pumping network. Based on observed flow rates in subsequent weeks, the timer change was effective in maintaining historical flow rates and no further actions were necessary. Notifications to DRC were not required.

6.0 CORRECTIVE ACTION REPORT

There are no corrective actions resulting from the 3rd quarter 2013 nitrate sampling event.

6.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions in the 2nd quarter 2013 nitrate sampling event.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The water level contour map for the third quarter, 2013 indicates that operation of the nitrate pumping system has not yet produced a well-defined impact on water levels, and that hydraulic capture associated with the chloroform pumping system has not changed significantly since the previous quarter. As nitrate pumping continues, the hydraulic capture associated with the nitrate pumping wells is expected to merge with the hydraulic capture associated with the chloroform pumping, yielding enhanced capture for both nitrate and chloroform plumes. However, the actual impact of nitrate pumping on the chloroform pumping system cannot be evaluated until more data are collected as part of routine monitoring.

Third quarter, 2013 nitrate concentrations at many of the wells within and adjacent to the nitrate plume were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells TW4-5, TW4-10, TW4-18, TW4-19, TW4-21, TW4-22, TW4-24, TWN-1, TWN-2, TWN-3, and TWN-7 ; the concentrations in wells MW-11, MW-25 and TW4-16 remained non-detect; and the concentration in MW-32 decreased from 0.1 mg/L to non-detect.

Of the wells showing changes in concentration greater than 20%, TW4-19 is a chloroform pumping well, and TW4-22, TW4-24, and TWN-2 are nitrate pumping wells. TW4-18 is located adjacent to nitrate pumping well TW4-19 and TWN-7 is located adjacent to nitrate pumping well TWN-2. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping.

The highest nitrate concentration (80 mg/L) was detected at nitrate pumping well TWN-2. Since the last quarter, the nitrate concentration in pumping well TWN-2 increased from approximately 58 mg/L to 80 mg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 12,500 µg/L to 9,640 µg/L. Chloroform changes are likely in response to the start-up of nitrate pumping in the first quarter and are affected by the presence of historically high chloroform concentrations at adjacent, cross-gradient well TW4-20. MW-27, located west of TWN-2, and TWN-18, located north of TWN-3, bound the nitrate plume to the west and north. In addition, the southernmost (downgradient) boundary of the plume remains between MW-30/MW-31 and MW-5/MW-11. Nitrate concentrations at MW-5 (adjacent to MW-11) and MW-11 have historically been low (< 1 mg/L) or non-detect for nitrate. MW-25, MW-26, MW-32, TW4-16, TW4-5, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east.

As discussed in Section 4.2.5, the kriged plume boundary now encompasses well TW4-18 due to an increase in concentration from 8.9 to 12.1 mg/L between the previous and current quarters. This change, which resulted in a less than 5% increase in plume area compared to last quarter (and a less than 2.5% increase compared to the first quarter), is likely to result primarily from the cessation of water delivery to the northern wildlife ponds and the consequent decay of the associated groundwater mound as discussed in Section 4.1.1. The reduction in low-nitrate recharge from the ponds appears to be having the anticipated effect of increased nitrate concentrations in wells downgradient of the ponds, which is the expected consequence of reduced dilution.

Although such increases have been anticipated as the result of reduced dilution, the magnitude and timing of the increases are difficult to predict due to the measured variations in hydraulic conductivity at the site and other factors. Regardless of the specific causes of the increase, nitrate at TW4-18 is associated with the chloroform plume, is cross-gradient of the nitrate plume as defined in the CAP, and is within the capture zone of the chloroform pumping system (primarily chloroform pumping well MW-26). Perched water flow at TW4-18 is to the southwest in the same approximate direction as the main body of the nitrate plume.

Except in the immediate vicinity of TW4-18, the boundaries of the nitrate plume have not changed significantly since the last quarter. The area of the plume has changed by less than 5%, even though the plume is influenced by reduced dilution, by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2, and changes in concentrations in wells within the plume. Nitrate pumping has, however, caused the boundary of the northern portion of the chloroform plume to move slightly to the west toward nitrate pumping well TW4-24. Nitrate concentrations at the downgradient edge of the plume (MW-30 and MW-31) continue to be relatively stable, suggesting that plume migration is minimal or absent.

The baseline nitrate (nitrate+nitrite as N) plume mass calculated as specified in the CAP (based on second quarter, 2010 data) was approximately 43,700 lb. The nitrate plume mass estimate for the current quarter was calculated as 36,930 lb, which was higher than the previous quarter's estimate of 34,142 lb by 2,788 lb or 8 %. The reasons for the difference were 1) higher nitrate concentrations measured in some wells within the plume this quarter compared to last quarter and 2) a slightly larger plume area this quarter compared to last quarter due to the increase in concentration at TW4-18.

Nitrate mass removal by pumping and natural attenuation acts to lower nitrate mass within the plume. Changes resulting from redistribution of nitrate within the plume are expected to result in both increases and decreases in concentrations at wells within the plume and therefore increases and decreases in mass estimates based on those concentrations, thus generating 'noise' in the mass estimates. Furthermore, because the sum of sampling and analytical error is typically about 20%, changes in the mass estimates from quarter to quarter of up to 20% could result from typical sampling and analytical error alone. Only longer-term analyses of the mass estimates that minimize the impact of these quarter to quarter variations will provide useful information on plume mass trends. Over the long term, nitrate mass estimates are expected to trend downward as a result of direct removal by pumping and through natural attenuation.

As specified in the CAP, once eight quarters of data have been collected (starting with the first quarter of 2013), a regression trend line will be applied to the quarterly mass estimates and evaluated. The trend line will then be updated quarterly and reevaluated as additional quarters of data are collected. The evaluation will determine whether the mass estimates are increasing, decreasing, or stable.

During the current quarter, a total of approximately 176 lb of nitrate was removed by the chloroform pumping wells and by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2. Of the 176 lb removed during the current quarter, approximately 120 lb, or 68 %, was removed by the nitrate pumping wells.

Nitrate concentrations outside the nitrate plume exceed 10 mg/L at a few locations: TW4-12 (17.4 mg/L), TW4-26 (11.7 mg/L), TW4-27 (27.2 mg/L), and TW4-28 (17.3 mg/L). TW4-10 also increased from less than 6 to 13 mg/L between the previous and current quarters. All these wells are located southeast of the nitrate plume and all but TW4-10 are separated from the plume by numerous wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at all of the above wells except TW4-10 are within 20% of their concentrations during the previous quarter. The increase at TW4-10 most likely results from the same factors that resulted in the increase at TW4-18, primarily reduced dilution from the northern wildlife ponds as discussed above. Nitrate at TW4-10 is also associated with the chloroform plume and is within the capture zone of the chloroform pumping system.

Chloride concentrations at all measured locations are within 20% of their respective concentrations during the previous quarter except at the following locations: TW4-10 (increased from 51.5 to 67.9 mg/L); TW4-18 (increased from 22.9 to 36.2 mg/L); TW4-22 (decreased from 586 mg/L to 487 mg/L); and TWN-1 (increased from 17.4 mg/L to 24.1 mg/L). TW4-22 is a nitrate pumping well; TW4-10 is adjacent to chloroform pumping well MW-26; TW4-18 is adjacent to chloroform pumping well TW4-19; and TWN-1 is adjacent to nitrate pumping well TW4-25. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping. Concentrations in wells TW4-22 and TWN-1 are affected by the start-up of nitrate pumping during the first quarter. Increases in concentration at TWN-1, TW4-10 and TW4-18 are also expected to result from reduced dilution caused by cessation of water delivery to the northern wildlife ponds, and are consistent with increases in nitrate at these wells.

Nitrate mass removal from the perched zone increased substantially by the start-up of nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 during the first quarter. Continued operation of these wells is therefore recommended. Pumping these wells, regardless of any short term fluctuations in concentrations detected at the wells, helps to reduce downgradient nitrate migration by removing nitrate mass and reducing average hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued operation of the nitrate pumping system is expected to reduce nitrate concentrations within the plume and to further reduce or halt downgradient nitrate migration. Furthermore, as discussed in Section 4.1.1, cessation of water delivery to the northern wildlife ponds appears to be having the anticipated impacts of reduced dilution (which is increasing constituent concentrations at some wells) and reduced hydraulic gradients (which will act in concert with pumping to reduce hydraulic gradients and reduce plume migration).

While past recharge from the ponds has helped limit many constituent concentrations within the chloroform and nitrate plumes by dilution, the associated groundwater mounding has increased hydraulic gradients and contributed to plume migration. Since use of the northern wildlife ponds ceased in March 2012, the reduction in recharge and decay of the associated groundwater mound is expected to increase many constituent concentrations within the plumes while reducing hydraulic gradients and rates of plume migration. EFRI and its consultants have raised the issues and potential effects associated with cessation of water delivery to the northern wildlife ponds during discussions with DRC in March 2012 and May 2013.

The impacts associated with cessation of water delivery to the northern ponds are expected to propagate downgradient (south and southwest) over time. Wells close to the ponds are generally expected to be impacted sooner than wells farther downgradient of the ponds. Therefore, constituent concentrations are generally expected to increase in downgradient wells close to the ponds before increases are detected in wells farther downgradient of the ponds. Although such increases are anticipated to result from reduced dilution, the magnitude and timing of the increases are difficult to predict due to the complex permeability distribution at the site and factors such as pumping and the rate of decay of the groundwater mound. The potential exists for some wells completed in higher permeability materials to be impacted sooner than some wells completed in lower permeability materials even though the wells completed in lower permeability materials may be closer to the ponds.

Localized increases in concentrations of constituents such as nitrate and chloride within and near the nitrate plume may occur even when the nitrate plume is under control based on the Nitrate CAP requirements. Ongoing mechanisms that can be expected to increase the concentrations of nitrate and chloride locally as a result of reduced wildlife pond recharge include but are not limited to:

1) Reduced dilution - the mixing of low constituent concentration pond recharge into existing perched groundwater will be reduced over time.
2) Reduced saturated thicknesses – dewatering of higher permeability layers receiving primarily low constituent concentration pond water will result in wells intercepting these layers receiving a smaller proportion of the low constituent concentration water.

The combined impact of the above two mechanisms may be especially evident at chloroform and nitrate pumping wells and non-pumped wells adjacent to the pumped wells. The overall impact is expected to be generally higher constituent concentrations in these wells over time until mass reduction resulting from pumping and natural attenuation eventually reduce concentrations.

8.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Director 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.

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.

Frank Filas, P.E
Vice President, Permitting and Environmental Affairs
Energy Fuels Resources (USA) Inc.

9.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on November 18, 2013.

Energy Fuels Resources (USA) Inc.

By:

Frank Filas, P.E
Vice President, Permitting and Environmental Affairs

Tables

Table 1
Summary of Well Sampling and Constituents for the Period

Well	Sample Collection Date	Date of Lab Report
Piezometer 01	8/28/2013	9/13/2013
Piezometer 02	8/28/2013	9/13/2013
Piezometer 03	8/28/2013	9/13/2013
TWN-01	8/27/2013	9/13/2013
TWN-01R	8/27/2013	9/13/2013
TWN-02	8/27/2013	9/13/2013
TWN-03	8/28/2013	9/13/2013
TWN-04	8/27/2013	9/13/2013
TWN-07	8/28/2013	9/13/2013
TWN-18	8/27/2013	9/13/2013
TW4-22	9/3/2013	9/18/2013
TW4-24	9/3/2013	9/18/2013
TW4-25	9/3/2013	9/18/2013
TWN-60	8/27/2013	9/13/2013
TW4-60	9/12/2013	9/24/2013
TWN-65	8/27/2013	9/13/2013

Note: All wells were sampled for Nitrate and Chloride.

TWN-60 is the nitrate program DI Field Blank.

TWN-65 is a duplicate of TWN-04.

TW4-60 is the chloroform program DI Field Blank.

Continuously pumped well.

Table 2 Nitrate Mass Removal Per Well Per Quarter

Quarter	MW-4 (lbs.)	MW-26 (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	TWN-02 (lbs.)	Quarter Totals (lbs.)
Q3 2010	3.2	0.3	5.8	1.7	4.7	NA	NA	NA	NA	15.7
Q4 2010	3.8	0.4	17.3	1.4	5.1	NA	NA	NA	NA	28.0
Q1 2011	2.9	0.2	64.5	1.4	4.3	NA	NA	NA	NA	73.3
Q2 2011	3.5	0.1	15.9	2.7	4.7	NA	NA	NA	NA	27.0
Q3 2011	3.5	0.5	3.5	3.9	5.4	NA	NA	NA	NA	16.8
Q4 2011	3.8	0.8	6.2	2.5	6.4	NA	NA	NA	NA	19.7
Q1 2012	3.6	0.4	0.7	5.0	6.0	NA	NA	NA	NA	15.9
Q2 2012	3.7	0.6	3.4	2.1	.5.2	NA	NA	NA	NA	15.0
Q3 2012	3.8	0.5	3.6	2.0	4.7	NA	NA	NA	NA	14.7
Q4 2012	3.2	0.4	5.4	1.8	4.2	NA	NA	NA	NA	14.9
Q1 2013	2.5	0.4	14.1	1.4	3.6	8.1	43.4	7.5	14.8	95.7
Q2 2013	2.5	0.5	5.6	1.7	3.5	10.7	37.1	6.4	23.9	91.7
Q3 2013	3.0	0.4	48.4	1.4	3.8	6.3	72.8	6.9	33.4	176.5
Well Totals (pounds)	**43.0**	**5.6**	**194.3**	**29.1**	**61.6**	**25.1**	**153.3**	**20.8**	**72.1**	**604.9**

Table 3 Nitrate Well Pumping Rates and Volumes

Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	72,898.8	3.5
MW-26	25,763.0	10.3
TW4-4	63,515.4	8.1
TW4-19	329,460.1	14.0
TW4-20	19,731.0	9.7
TW4-22	25,592.9	18.2
TW4-24	267,703.5	17.5
TW4-25	145,840.9	18.2
TWN-2	50,036.5	18.6

Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	MW-4							MW-26						
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Calculations and Data Origination	Total Gallons pumped for the quarter from the Flow Meter data	Concentration from the analytical data	Concentration in mg/LX1000 to convert to ug/L	Total pumped gallons/3.785 to conver to liters	Concentration in ug/L X total liters	Total ug/1000000 to convert to grams	Total grams/453.592 to convert to pounds							
Q3 2010	79859.1	4.8	4800	302266.7	1450880129	1450.9	3.20	63850.0	0.6	600	241672.3	145003350	145	0.32
Q4 2010	90042.2	5	5000	340809.7	1704048635	1704.0	3.76	60180.0	0.7	700	227781.3	159446910	159	0.35
Q1 2011	76247.6	4.6	4600	288597.2	1327546964	1327.5	2.93	55130.0	0.5	500	208667.1	104333525	104	0.23
Q2 2011	85849.3	4.9	4900	324939.6	1592204042	1592.2	3.51	55800.6	0.3	300	211205.3	63361581	63	0.14
Q3 2011	85327.7	4.9	4900	322965.3	1582530188	1582.5	3.49	65618.0	0.9	900	248364.1	223527717	224	0.49
Q4 2011	89735.0	5.1	5100	339647.0	1732199573	1732.2	3.82	50191.3	2	2000	189974.1	379948141	380	0.84
Q1 2012	90376.4	4.8	4800	342074.7	1641958435	1642.0	3.62	31440.1	1.7	1700	119000.8	202301323	202	0.45
Q2 2012	90916.5	4.9	4900	344118.8	1686181940	1686.2	3.72	26701.2	2.5	2500	101064.1	252660294	253	0.56
Q3 2012	91607.0	5	5000	346732.5	1733662475	1733.7	3.82	25246.0	2.6	2600	95556.1	248445886	248	0.55
Q4 2012	78840.0	4.8	4800	298409.4	1432365120	1432.4	3.16	30797.0	1.46	1460	116566.6	170187302	170	0.38
Q1 2013	62943.7	4.78	4780	238241.9	1138796304	1138.8	2.51	22650.7	2.27	2270	85732.9	194613682	195	0.43
Q2 2013	71187.3	4.22	4220	269443.9	1137053387	1137.1	2.51	25343.4	2.11	2110	95924.8	202401263	202	0.45
Q3 2013	72898.8	4.89	4890	275922.0	1349258375	1349.3	2.97	25763.0	1.98	1980	97513.0	193075651	193	0.43
Totals Since Q3 2010	1065830.55						43.01	538711.3						5.60

Highlighted cells are the total for the current quarter

Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	TW4-19							TW4-20						
Quarter	**Total Pumped (gal)**	**Conc (mg/L)**	**Conc (ug/L)**	**Total Pumped (liters)**	**Total (ug)**	**Total (grams)**	**Total (pounds)**	**Total Pumped (gal)**	**Conc (mg/L)**	**Conc (ug/L)**	**Total Pumped (liters)**	**Total (ug)**	**Total (grams)**	**Total (pounds)**
Calculations and Data Origination														
Q3 2010	116899.2	5.9	5900	442463.5	2.611E+09	2611	5.76	39098.3	5.3	5300	147987.1	784331447	784	1.73
Q4 2010	767970.5	2.7	2700	2906768.3	7.848E+09	7848	17.30	36752.5	4.6	4600	139108.2	639897778	640	1.41
Q1 2011	454607.9	17	17000	1720690.9	2.925E+10	29252	64.49	37187.5	4.4	4400	140754.7	619320625	619	1.37
Q2 2011	159238.9	12	12000	602719.2	7.233E+09	7233	15.95	67907.7	4.8	4800	257030.6	1.234E+09	1234	2.72
Q3 2011	141542.6	3	3000	535738.7	1.607E+09	1607	3.54	72311.2	6.5	6500	273697.9	1.779E+09	1779	3.92
Q4 2011	147647.2	5	5000	558844.7	2.794E+09	2794	6.16	72089.3	4.2	4200	272858.0	1.146E+09	1146	2.53
Q1 2012	148747.0	0.6	600	563007.4	337804437	338	0.74	76306.0	7.9	7900	288818.2	2.282E+09	2282	5.03
Q2 2012	172082.0	2.4	2400	651330.5	1.563E+09	1563	3.45	22956.4	11	11000	86890.1	955790963	956	2.11
Q3 2012	171345.0	2.5	2500	648540.8	1.621E+09	1621	3.57	22025.0	10.8	10800	83364.6	900337950	900	1.98
Q4 2012	156653.0	4.1	4100	592931.6	2.431E+09	2431	5.36	20114.0	11	11000	76131.5	837446390	837	1.85
Q1 2013	210908.0	7.99	7990	798286.8	6.378E+09	6378	14.06	18177.0	9.07	9070	68799.9	624015501	624	1.38
Q2 2013	226224.0	2.95	2950	856257.8	2.526E+09	2526	5.57	20252.4	9.76	9760	76655.3	748156060	748	1.65
Q3 2013	329460.1	17.6	17600	1247006.5	2.195E+10	21947	48.39	19731.0	8.65	8650	74681.8	645997873	646	1.42
Totals Since Q3 2010	3203325.4						194.34	524908.3						29.09

Highlighted cells are the total for the current quarter

Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	TW4-4							TW4-22						
Quarter	**Total Pumped (gal)**	**Conc (mg/L)**	**Conc (ug/L)**	**Total Pumped (liters)**	**Total (ug)**	**Total (grams)**	**Total (pounds)**	**Total Pumped (gal)**	**Conc (mg/L)**	**Conc (ug/L)**	**Total Pumped (liters)**	**Total (ug)**	**Total (grams)**	**Total (pounds)**
Calculations and Data Origination														
Q3 2010	76916.8	7.30	7300.00	291130.1	2.1E+09	2125.25	4.69	NA	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	7.10	7100.00	328810.9	2.3E+09	2334.56	5.15	NA	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	7.00	7000.00	277667.6	1.9E+09	1943.67	4.29	NA	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	7.00	7000.00	304066.5	2.1E+09	2128.47	4.69	NA	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	6.60	6600.00	369170.0	2.4E+09	2436.52	5.37	NA	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	7.00	7000.00	412729.6	2.9E+09	2889.11	6.37	NA	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	7.10	7100.00	384619.6	2.7E+09	2730.80	6.02	NA	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	7.10	7100.00	332168.2	2.4E+09	2358.39	5.20	NA	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	7.10	7100.00	302822.7	2.2E+09	2150.04	4.74	NA	NA	NA	NA	NA	NA	NA
Q4 2012	71596.0	7.00	7000.00	270990.9	1.9E+09	1896.94	4.18	NA	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	7.36	7360.00	222243.1	1.6E+09	1635.71	3.61	16677.4	58.0	58000.0	63124.0	3661189622.0	3661.2	8.07
Q2 2013	65603.4	6.30	6300.00	248308.9	1.6E+09	1564.35	3.45	25523.2	50.2	50200.0	96605.3	4849586662.4	4849.6	10.69
Q3 2013	63515.4	7.22	7220.00	240405.8	1.7E+09	1735.73	3.83	25592.9	29.7	29700.0	96869.1	2877013057.1	2877.0	6.34
Totals Since Q3 2010	1052875.5						61.57	67793.5						25.11

Highlighted cells are the total for the current quarter

Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	TW4-24							TW4-25						
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Calculations and Data Origination														
Q3 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2013	144842.6	35.9	35900.0	548229.2	19681429751.9	19681.4	43.39	99369.9	9.0	9000.0	376115.1	3385035643.5	3385.0	7.46
Q2 2013	187509.3	23.7	23700.0	709722.7	16820428001.9	16820.4	37.08	147310.4	5.2	5240.0	557569.9	2921666087.4	2921.7	6.44
Q3 2013	267703.5	32.6	32600.0	1013257.7	33032202568.5	33032.2	72.82	145840.9	5.7	5690.0	552007.8	3140924419.0	3140.9	6.92
Totals Since Q3 2010	600055.4						153.30	392521.2						20.83

Highlighted cells are the total for the current quarter

Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	TWN-02							
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Removed by All Wells (pounds)
Calculations and Data Origination								
Q3 2010	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	31009.4	57.3	57300.0	117370.6	6725334176.7	6725.3	14.83	95.73
Q2 2013	49579.3	57.7	57700.0	187657.7	10827846433.9	10827.8	23.87	91.71
Q3 2013	50036.5	80.0	80000.0	189388.2	15151052200.0	15151.1	33.40	176.53
Totals Since Q3 2010	130625.2						72.10	604.94

Highlighted cells are the total for the current quarter

Table 5 Nitrate Data Over Time for MW-30, MW-31, MW-5, and MW-11

Location	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013
MW-30	15.8	15	16	16	17	16	16	17	16	17	18.5	21.4	18.8	17.6
MW-31	22.5	21	20	21	22	21	21	21	20	21	23.6	19.3	23.8	21.7
MW-5	ND	NS	0.2	NS	0.2	NS	0.2	NS	0.1	NS	ND	NS	ND	NS
MW-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detected
NS = Not Sampled

INDEX OF TABS

Tab A

Site Plan and Perched Well Locations White Mesa Site

HYDRO
GEO
CHEM, INC.

SITE PLAN SHOWING PERCHED WELL AND PIEZOMETER LOCATIONS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/Uwelloc0913.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order

3rd ~~2nd~~ Quarter 2013

Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth	Total Depth
TWN-1	0.84	8/27/13	1019		112.5
TWN-7	1.16	8/28/13	0632		105
TWN-4	1.63	8/27/13	1207		125.7
TWN-18	2.32	8/27/13	1250		145
TWN-3	27.2	8/26/13	0643		96
TWN-2	57.7	8/27/13	1440		96
		8	~~1440~~		
Duplicate of	TWN-04 ~~MWD~~	8/27/13	1207		
Rinsate					

Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth
Piez 1	8.88	8/28/13	0730	
Piez 2	0.172	8/28/13	0655	
Piez 3	1.85	8/28/13	0709	

Rinsate Samples

Name	Date	Sample
TWN-1R	8/27	0920
TWN-7R		
TWN-4R		
TWN-18R		
TWN-3R		
TWN-2R		

Samplers: ______________

____

3

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-01_08282013

Date and Time for Purging: 8/28/2013 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 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 62.60

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

Conductance (avg): 2215

pH of Water (avg): 9.40

Well Water Temp. (avg): 15.32

Redox Potential (Eh): 332

Turbidity: 13

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 18°

Time	0729
Gal. Purged	0
Conductance	2215
pH	9.40
Temp. °C	15.32
Redox Potential Eh (mV)	332
Turbidity (NTU)	13

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 | 0 | gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = | 0 |

Time to evacuate two casing volumes (2V)
T = 2V/Q = | 0 |

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

If well evacuated to dryness, number of gallons evacuated | 0 |

Name of Certified Analytical Laboratory if Other Than Energy Labs | AWAL |

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth | 64.61 |

Sample Time | 0730 |

See instruction

Comment

Arrived on site at 0721. Tanner and Garrin present to bail samples.
samples bailed and collected at 0730. water was mostly clear

Left site at 0741

Piez-01 08-28-2013 | 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 2013

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-02_08282013

Date and Time for Purging: 8/28/2013 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-60

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 32.30

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

Conductance (avg): 689

pH of Water (avg): 7.76

Well Water Temp. (avg): 14.59

Redox Potential (Eh): 315

Turbidity: 3.1

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0654	Gal. Purged	0
Conductance	689	pH	7.76
Temp. °C	14.59		
Redox Potential Eh (mV)	315		
Turbidity (NTU)	3.1		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth: 33.69

Sample Time: 0655

See instruction

Comment

Arrived on site at 0649. Tanner and Garrin present to bail samples.
Samples bailed at 0655. Water was mostly clear. Left site at 0659

Piez-02 08-28-2013	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 2013

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-03_08282013

Date and Time for Purging: 8/28/2013

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 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 44.05

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

3" Well: 0 (.367h)

Conductance (avg): 3136

pH of Water (avg): 12.08

Well Water Temp. (avg): 14.46

Redox Potential (Eh): 260

Turbidity: 12

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0708	Gal. Purged	0
Conductance	3136	pH	12.08
Temp. °C	14.46		
Redox Potential Eh (mV)	260		
Turbidity (NTU)	12		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth: 46.13

Sample Time: 0709

See instruction

Comment

Arrived on site at 0703. Tanner and Garrin present to Bail samples.
Samples bailed at 0709. water was mostly clear left site at 0715

Piez-03 08-28-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-01_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 2 casings [ ] 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-01R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 56.42

Casing Volume (V) 4" Well: 36.62 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 894

pH of Water (avg): 7.23

Well Water Temp. (avg): 15.12

Redox Potential (Eh): 272

Turbidity: 44

Weather Cond.: Partly Cloudy

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

Time	1016	Gal. Purged	60
Conductance	896	pH	7.23
Temp. °C	15.13		
Redox Potential Eh (mV)	276		
Turbidity (NTU)	45		

Time	1017	Gal. Purged	70
Conductance	895	pH	7.24
Temp. °C	15.13		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	46		

Time	1018	Gal. Purged	80
Conductance	890	pH	7.23
Temp. °C	15.12		
Redox Potential Eh (mV)	270		
Turbidity (NTU)	44		

Time	1019	Gal. Purged	90
Conductance	895	pH	7.23
Temp. °C	15.12		
Redox Potential Eh (mV)	271		
Turbidity (NTU)	44		

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.32

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth: 108.11

Sample Time: 1019

See instruction

Comment

Arrived on site at 1005. Tanner and Garrin present for purge and sampling event. Purge began at 1010. Purged well for a total of 9 minutes. Water was mostly clear. Purge ended and samples collected at 1019. Left site at 1022

TWN-01 08-27-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-01R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-01R_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 2 casings [ ] 3 casings

Sampling Event: 3rd Quart. Nitrate

Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ 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): 1.2

pH of Water (avg): 5.57

Well Water Temp. (avg): 22.80

Redox Potential (Eh): 405

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	0127	Gal. Purged	120
Conductance	1.2	pH	5.57
Temp. °C	22.80		
Redox Potential Eh (mV)	405		
Turbidity (NTU)	0		

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 [150] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [0]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒

Chloride

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

Final Depth [0]

Sample Time [0928]

See instruction

Comment

Arrived on site at 0910. Tanner and Garrin present for rinsate.
Rinsate began at 0915. Pumped 50 Galons soap water and 100 Gallons
of D.I. water. Rinsate ended and samples collected at 0928
Left site at 0940

TWN-01R 08-27-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-02_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Continuous

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 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 32.69

Casing Volume (V) 4" Well: 41.34 (.653h)

3" Well: 0 (.367h)

Conductance (avg): 2847

pH of Water (avg): 6.87

Well Water Temp. (avg): 17.29

Redox Potential (Eh): 276

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 29°

Time	1439	Gal. Purged	0
Conductance	2847	pH	6.87
Temp. °C	17.29		
Redox Potential Eh (mV)	276		
Turbidity (NTU)	0		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 18.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth: 56.15

Sample Time: 1440

See instruction

Comment

Arrived on site at 1434. Tanner and Garrin present to collect samples
Samples collected at 1440. Water was clear. Left site at 1442.
Continuous Pumping Well

TWN-02 08-27-2013 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 2013

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-03_08282013

Date and Time for Purging: 8/27/2013 and Sampling (if different): 8/28/2013

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 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 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 37.66

Casing Volume (V) 4" Well: 38.09 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2452

pH of Water (avg): 7.12

Well Water Temp. (avg): 15.25

Redox Potential (Eh): 254

Turbidity: 21

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 29°

Time	1352	Gal. Purged	49.50
Conductance	2452	pH	7.12
Temp. °C	15.25		
Redox Potential Eh (mV)	254		
Turbidity (NTU)	21		

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

Time	0643	Gal. Purged	0
Conductance	2492	pH	7.17
Temp. °C	14.79		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0644	Gal. Purged	0
Conductance	2486	pH	7.15
Temp. °C	14.73		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged 49.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.92

Number of casing volumes evacuated (if other than two) 1.29

If well evacuated to dryness, number of gallons evacuated 49.50

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 94.63

Sample Time 0643

See instruction

Comment

Arrived on site at 1343 Tanner and Garrin present for purge. Purge began at 1348
Purged well for 4 Minutes and 30 Seconds. Purged well dry! Purge ended at 1352
water was clear. Left site at 1356
Arrived on site at 0639. Tanner and Garrin present to collect samples. Depth to water was
37.06. Samples bailed at 0643. Left site at 0646

Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-04 08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 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 µMHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging: 48.60

Casing Volume (V) 4" Well: 50.34 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1055

pH of Water (avg): 7.15

Well Water Temp. (avg): 14.78

Redox Potential (Eh): 245

Turbidity: 84

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 26°

Time	1204	Gal. Purged	~~98~~ 99
Conductance	1056	pH	7.15
Temp. °C	14.78		
Redox Potential Eh (mV)	245		
Turbidity (NTU)	85		

Time	1205	Gal. Purged	110
Conductance	1057	pH	7.16
Temp. °C	14.78		
Redox Potential Eh (mV)	246		
Turbidity (NTU)	84		

Time	1206	Gal. Purged	121
Conductance	1054	pH	7.16
Temp. °C	14.79		
Redox Potential Eh (mV)	246		
Turbidity (NTU)	84		

Time	1207	Gal. Purged	132
Conductance	1054	pH	7.16
Temp. °C	14.79		
Redox Potential Eh (mV)	246		
Turbidity (NTU)	84		

Volume of Water Purged 132 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 9.15

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 53.56

Sample Time 1207

See instruction

Comment

Arrived on site at 1150 Tanner and Garrin present for purge and sampling event. Purge began at 1155. Purged well for a total of 12 minutes. water was a little Murky. Purge ended and samples collected at 1207. Left site at 1210.

TWN-04 08-27-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-07_08282013

Date and Time for Purging: 8/27/2013 and Sampling (if different): 8/28/2013

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 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 µMHOS/ cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging: 87.05

Casing Volume (V): 4" Well: 11.72 (.653h); 3" Well: 0 (.367h)

Conductance (avg): 1254

pH of Water (avg): 7.34

Well Water Temp. (avg): 15.85

Redox Potential (Eh): 225

Turbidity: 30

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	1049
Gal. Purged	14
Conductance	1254
pH	7.34
Temp. °C	15.85
Redox Potential Eh (mV)	225
Turbidity (NTU)	30

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

Time	0631
Gal. Purged	0
Conductance	1225
pH	7.02
Temp. °C	15.94
Redox Potential Eh (mV)	~~346~~
Turbidity (NTU)	

Time	0632
Gal. Purged	0
Conductance	1230
pH	7.15
Temp. °C	15.99
Redox Potential Eh (mV)	
Turbidity (NTU)	

Before Volume of Water Purged 14 gallon(s) After

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.13

Number of casing volumes evacuated (if other than two) 1.19

If well evacuated to dryness, number of gallons evacuated 14

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 103.51

Sample Time 0632

See instruction

Comment

Arrived on site at 1044. Tanner and Garrin present for purge. Purge began at 1048
Purged well for a total of 1 minute and 20 seconds. Purged well dry.
water was clear. Purge ended at 1049. Left site at 1051
Arrived on site at 0627. Tanner and Garrin present to collect samples depth to water
was 96.38. samples collected at 0632. Left site at 0634

TWN-07 08-27-2013 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 2013

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-18_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [x] 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): 145.00

Depth to Water Before Purging: 58.66

Casing Volume (V) 4" Well: 56.38 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2227

pH of Water (avg): 6.93

Well Water Temp. (avg): 14.65

Redox Potential (Eh): 273

Turbidity: 255

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 27°

Time	1247	Gal. Purged	99
Conductance	2224	pH	6.95
Temp. °C	14.67		
Redox Potential Eh (mV)	273		
Turbidity (NTU)	250		

Time	1248	Gal. Purged	110
Conductance	2227	pH	6.93
Temp. °C	14.66		
Redox Potential Eh (mV)	273		
Turbidity (NTU)	253		

Time	1249	Gal. Purged	121
Conductance	2228	pH	6.94
Temp. °C	14.64		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	257		

Time	1250	Gal. Purged	132
Conductance	2232	pH	6.93
Temp. °C	14.64		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	260		

Volume of Water Purged: 132 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.25

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

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

Chloride

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

Final Depth: 60.55

Sample Time: 1250

See instruction

Comment

Arrived on site at 1235. Tanner and Garrin present for purge began at 1238
Purged well for a total of 12 minutes. water was Murky. Purge ended
and samples collected at 1250. Left site at 1254

TWN-18 08-27-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-60

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TWN-60_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): NA

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): NA

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 µMHOS/ 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): 2.5

pH of Water (avg): 7.6

Well Water Temp. (avg): ~~25.99~~ 20.99

Redox Potential (Eh): 250

Turbidity: 0

Weather Cond.: Sunny

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

Time	1512	Gal. Purged	
Conductance	2.5	pH	7.6
Temp. °C	~~25.99~~ 20.99		
Redox Potential Eh (mV)	250		
Turbidity (NTU)	0		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

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

Other (specify)
chloride

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

Final Depth: 0

Sample Time: 1515

See instruction

Comment

Arrived on site at 1505. Garrin present for sampling. Took parameters and collected samples. Left site at 1520.

DI Sample

TWN-60 08-27-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Nitrate 2013

Location (well name): TWN-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-65_08272013

Date and Time for Purging: 8/27/2013 and Sampling (if different): N/A

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 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 µMHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging: 48.60

Casing Volume (V) 4" Well: 50.34 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1055

pH of Water (avg): 7.15

Well Water Temp. (avg): 14.78

Redox Potential (Eh): 245

Turbidity: 84

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 26°

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 | 132 | gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = | 9.15 |

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

If well evacuated to dryness, number of gallons evacuated | 0 |

Name of Certified Analytical Laboratory if Other Than Energy Labs | AWAL |

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth | 53.56 |

Sample Time | 1207 |

See instruction

Comment

Duplicate of TWN-04

TWN-65 08-27-2013 | Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2013

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_09032013

Date and Time for Purging: 9/3/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: [ ] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-24

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 57.50

Casing Volume (V) 4" Well: 36.56 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 6097

pH of Water (avg): 6.94

Well Water Temp. (avg): 17.10

Redox Potential (Eh): 254

Turbidity: 0.5

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 27°

Time	1304
Gal. Purged	0
Conductance	6097
pH	6.94
Temp. °C	17.10
Redox Potential Eh (mV)	254
Turbidity (NTU)	0.5

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 [0] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [18.50]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [0]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth [73.41]

Sample Time [1305]
1305

See instruction

Comment

Arrived on site at 1259. Tanner and Garrin Present ~~for pu~~ to collect samples.
Samples collected at ~~[illegible]~~ 1305. Left site at 1307. water was Clear

Continuous Pumping Well

TW4-22 09-03-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2013

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_09032013

Date and Time for Purging: 9/3/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: [x] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 65.70

Casing Volume (V) 4" Well: 30.56 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 8247

pH of Water (avg): 6.73

Well Water Temp. (avg): 17.11

Redox Potential (Eh): 254

Turbidity: 0

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 27°

Time	1254	Gal. Purged	0
Conductance	8247	pH	6.73
Temp. °C	17.11		
Redox Potential Eh (mV)	254		
Turbidity (NTU)	0		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 18.4

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

Type of Sample	Sample Taken Y	Sample Taken N	Sample Vol (indicate if other than as specified below)	Filtered Y	Filtered N	Preservative Type	Preservative Added Y	Preservative Added N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth: 68.13

Sample Time: 1255

See instruction

Comment

Arrived on site at 1248. Tanner and Garrin present to collect samples. samples collected at 1255. Left site at 1257. water was clear

Continuous Pumping well

TW4-24 09-03-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2013

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_09032013

Date and Time for Purging: 9/3/2013 and Sampling (if different): N/A

Well Purging Equip Used: [x] pump or [ ] bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: [ ] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-19

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 65.90

Casing Volume (V) 4" Well: 44.99 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2895

pH of Water (avg): 7.27

Well Water Temp. (avg): 16.97

Redox Potential (Eh): 275

Turbidity: 0.8

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 27°

Time	1239	Gal. Purged	0
Conductance	2895	pH	7.27
Temp. °C	16.97		
Redox Potential Eh (mV)	275		
Turbidity (NTU)	0.8		

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 18.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

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

Other (specify)
Chloride

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

Final Depth: 75.91

Sample Time: 1240

See instruction

Comment

Arrived on site at 1233. Tanner and Garrin Present to collect samples.
samples collected at 1240 water was Clear Left site at 1242

Continuous Pumping Well

TW4-25 09-03-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2013

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_09122013

Date and Time for Purging: 9/12/2013 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 Chloroform

Prev. Well Sampled in Sampling Event: TW4-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

3" Well: 0 (.367h)

Conductance (avg): 0.5

pH of Water (avg): 7.83

Well Water Temp. (avg): 23.23

Redox Potential (Eh): 161

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time: 0844	Gal. Purged: 0
Conductance: 0.5	pH: 7.83
Temp. °C: 23.23	
Redox Potential Eh (mV): 161	
Turbidity (NTU): 0	

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: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

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

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: AWAL

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

Chloride

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

Final Depth: 0

Sample Time: 0845

See instruction

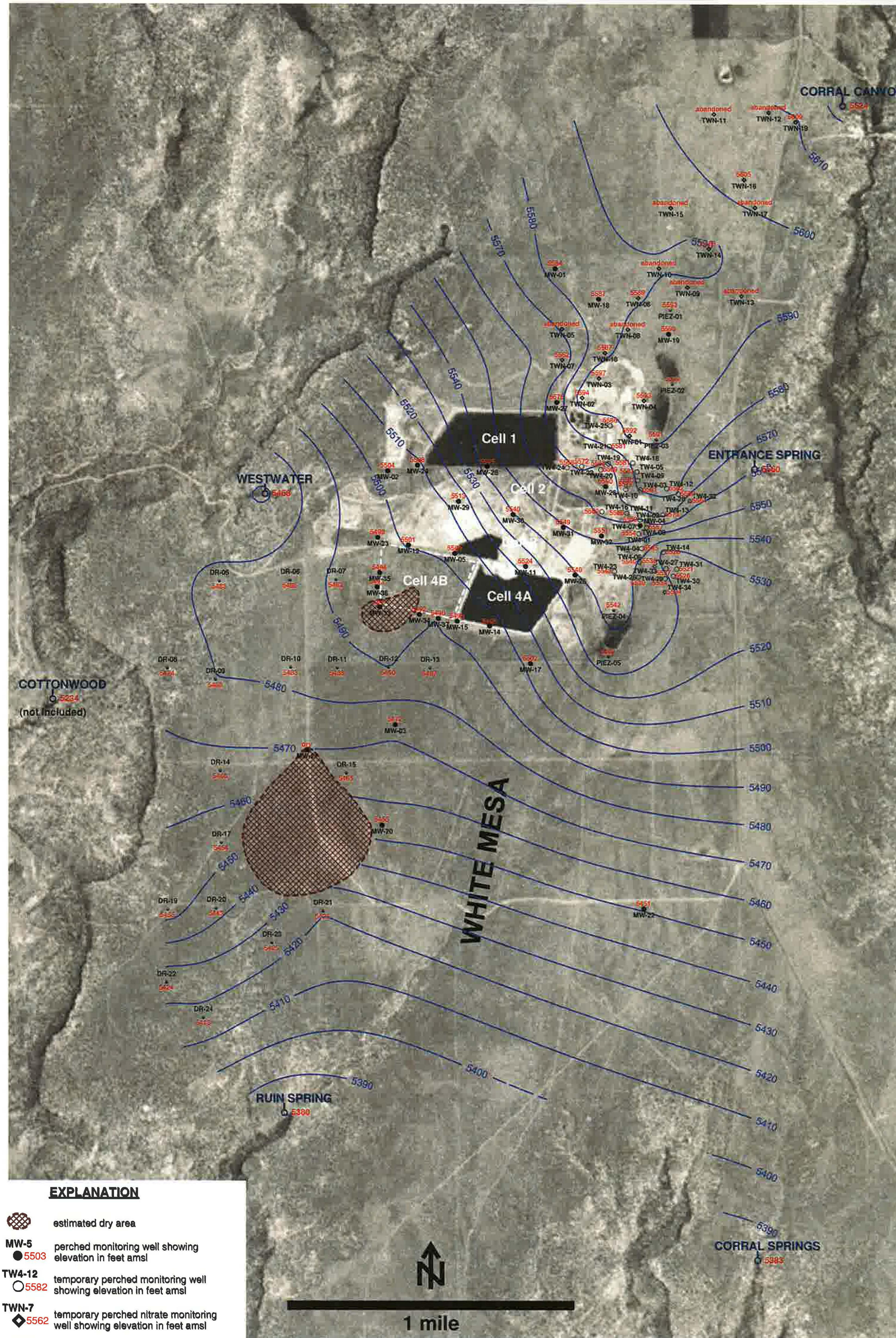
Comment

D.I. Blank

TW4-60 09-12-2013 Do not touch this cell (SheetName)

Tab C

Kriged Current Quarter Groundwater Contour Map and Depth to Water Summary

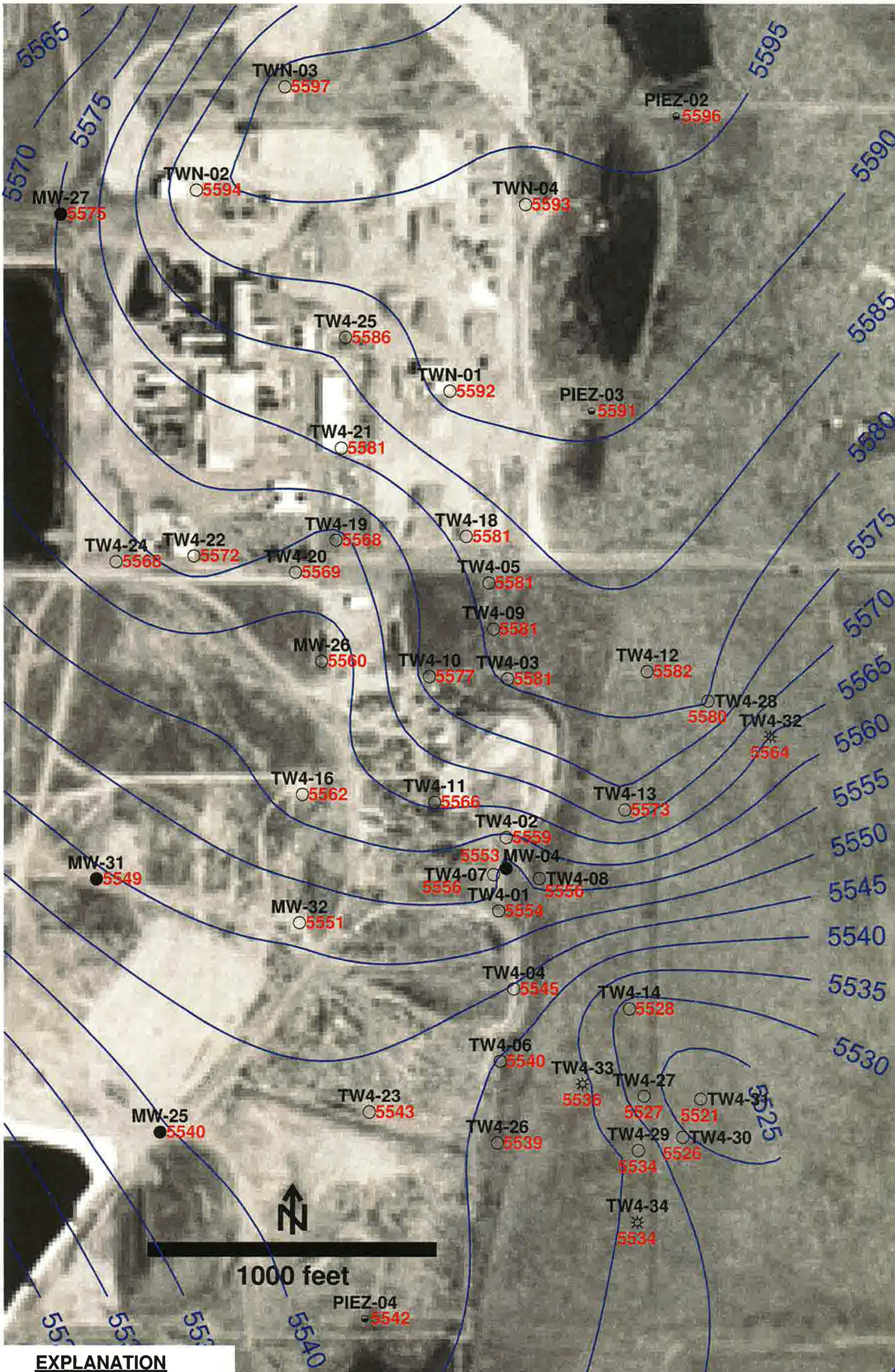


NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2013 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/Uwl0913.srf	C-1



EXPLANATION

MW-4 ● 5553	perched monitoring well showing elevation in feet amsl
TW4-1 ○ 5554	temporary perched monitoring well showing elevation in feet amsl
PIEZ-2 ● 5596	perched piezometer showing elevation in feet amsl
TW4-32 ☼ 5564	temporary perched monitoring well installed September, 2013 showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells;
TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2013 WATER LEVELS
WHITE MESA SITE
(detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/Uwl0913det.srf	C-2

Name: Garrin Palmer, Tanner Holliday
Date: 9/27/2013

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
1339	MW-1	63.78	1331	MW-4	69.78	1350	PIEZ-1	62.61	NA	DR-1	Abandon
1416	MW-2	109.50	1332	TW4-1	64.21	1359	PIEZ-2	32.43	NA	DR-2	Abandon
1356	MW-3	82.77	1206	TW4-2	65.46	1322	PIEZ-3	46.90	1017	DR-5	82.96
1357	MW-3A	84.79	1323	TW4-3	51.65	1429	PIEZ-4	49.12	1020	DR-6	94.21
800	MW-5	106.46	1345	TW4-4	68.90	1432	PIEZ-5	45.75	1236	DR-7	92.21
805	MW-11	87.28	1320	TW4-5	59.35	1405	TWN-1	56.44	1012	DR-8	51
823	MW-12	108.55	1343	TW4-6	69.16	1312	TWN-2	32.31	1009	DR-9	86.4
757	MW-14	103.60	1329	TW4-7	64.98	1315	TWN-3	37.14	1006	DR-10	77.97
815	MW-15	106.48	1325	TW4-8	64.80	1320	TWN-4	48.54	1026	DR-11	98.1
1352	MW-17	72.96	1321	TW4-9	57.09	NA	TWN-5	Abandon	1028	DR-12	89.62
1342	MW-18	70.39	1318	TW4-10	57.47	1344	TWN-6	75.95	1031	DR-13	69.76
1347	MW-19	57.25	1203	TW4-11	57.70	1336	TWN-7	86.85	959	DR-14	76.29
950	MW-20	85.20	1215	TW4-12	41.99	NA	TWN-8	Abandon	955	DR-15	92.8
921	MW-22	66.78	1217	TW4-13	46.48	NA	TWN-9	Abandon	NA	DR-16	Abandon
1059	MW-23	114.28	1219	TW4-14	85.09	NA	TWN-10	Abandon	1002	DR-17	64.82
1413	MW-24	113.70	1317	TW4-15	65.33	NA	TWN-11	Abandon	NA	DR-18	Abandon
807	MW-25	73.26	1336	TW4-16	61.75	NA	TWN-12	Abandon	939	DR-19	62.97
1317	MW-26	65.33	1338	TW4-17	73.89	NA	TWN-13	Abandon	941	DR-20	55.35
1334	MW-27	52.38	1327	TW4-18	59.90	1352	TWN-14	61.81	924	DR-21	101.19
1409	MW-28	75.70	1205	TW4-19	63.02	NA	TWN-15	Abandon	935	DR-22	60.65
1419	MW-29	101.33	1315	TW4-20	61.00	1355	TWN-16	47.31	945	DR-23	70.56
1422	MW-30	74.90	1329	TW4-21	58.46	NA	TWN-17	Abandon	932	DR-24	43.85
1425	MW-31	67.15	1230	TW4-22	56.75	1317	TWN-18	58.43	NA	DR-25	Abandon
1338	MW-32	73.89	1210	TW4-23	64.25	1041	TWN-19	52.44			
1415	MW-33	DRY	1232	TW4-24	57.82						
830	MW-34	108.11	1331	TW4-25	59.00						
1420	MW-35	112.30	1347	TW4-26	62.74						
1417	MW-36	110.35	1237	TW4-27	80.90						
833	MW-37	109.41	1234	TW4-28	36.65						
			1240	TW4-29	71.77						
			1242	TW4-30	77.27						
			1244	TW4-31	83.36						
			1247	TW4-32	47.41						
			1250	TW4-33	70.30						
			1252	TW4-34	69.30						

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

Weekly Inspection Form

Date 7/2/13 **Name** Garrin / Tanner

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1326	MW-4	74.48	Flow	4.3 GPM	Yes No
			Meter	135075.20	Yes No
1322	MW-26	61.60	Flow	10.6 GPM	Yes No
			Meter	338555.37	Yes No
1405	TW4-19	64.72	Flow	14.0 GPM	Yes No
			Meter	1272809.03	Yes No
1317	TW4-20	59.86	Flow	8.5 GPM	Yes No
			Meter	573332.21	Yes No
1329	TW4-4	70.86	Flow	8.3 GPM	Yes No
			Meter	129096.50	Yes No
1300	TWN-2	31.70	Flow	18.6 GPM	Yes No
			Meter	94281.50	Yes No
1313	TW4-22	56.54	Flow	18.0 GPM	Yes No
			Meter	44201.40	Yes No
1308	TW4-24	70.02	Flow	10.2 GPM	Yes No
			Meter	355368.02	Yes No
1252	TW4-25	60.70	Flow	18.2 GPM	Yes No
			Meter	267987.50	Yes No

Operational Problems (Please list well number): TW4-24, TW4-20 Flow rate dropped from previous weeks because multiple wells were pumping at the same time.

Corrective Action(s) Taken (Please list well number): Changed timer on TW4-24, will continue to monitor flow rates.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/8/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0949	MW-4	67.76	Flow 4.3	Yes No
			Meter 1393683.1	Yes No
0945	MW-26	62.90	Flow 10.2	Yes No
			Meter 340135.41	Yes No
1030	TW4-19	70.02	Flow 14.0 GPM	Yes No
			Meter 1297686.00	Yes No
0940	TW4-20	60.65	Flow 9.8	Yes No
			Meter 5745650.60	Yes No
0953	TW4-4	~~70.40~~ 67.65	Flow 8.0	Yes No
			Meter 132891.90	Yes No
0927	TWN-2	34.70	Flow 18.5	Yes No
			Meter 87258.30	Yes No
0936	TW4-22	56.86	Flow 18.2	Yes No
			Meter 45818.60	Yes No
0932	TW4-24	64.40	Flow 18.1	Yes No
			Meter 3705020.70	Yes No
0922	TW4-25	75.88	Flow 18.2	Yes No
			Meter 267029.40	Yes No

Operational Problems (Please list well number):

Corrective Action(s) Taken (Please list well number):

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/15/13 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1314	MW-4	76.15	Flow 4.3 GPM	Yes No
			Meter 144860.68	Yes No
1309	MW-26	62.52	Flow 10.0 GPM	Yes No
			Meter 342107.98	Yes No
1345	TW4-19	61.14	Flow 14.00 GPM	Yes No
			Meter 1327592.06	Yes No
1306	TW4-20	60.71	Flow 8.4 GPM	Yes No
			Meter 576053.01	Yes No
1317	TW4-4	71.40	Flow 7.5 GPM	Yes No
			Meter 137591.00	Yes No
1254	TWN-2	32.00	Flow 19.1 GPM	Yes No
			Meter 90991.30	Yes No
1302	TW4-22	56.75	Flow 18.4 GPM	Yes No
			Meter 47973.60	Yes No
1258	TW4-24	64.20	Flow 13.6 GPM	Yes No
			Meter 390788.20	Yes No
1250	TW4-25	61.15	Flow 18.8 GPM	Yes No
			Meter 278026.04	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/23/13 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1310	MW-4	72.63	Flow 3.1 GPM	Yes No
			Meter 150968.83	Yes No
1306	MW-26	63.20	Flow 10.0 GPM	Yes No
			Meter 344368.20	Yes No
1425	TW4-19	66.37	Flow 14.0 GPM	Yes No
			Meter 1361881.09	Yes No
1301	TW4-20	61.20	Flow 8.9 GPM	Yes No
			Meter 577710.41	Yes No
1315	TW4-4	82.60	Flow 8.0 GPM	Yes No
			Meter 142828.50	Yes No
1240	TWN-2	32.65	Flow 18.7 GPM	Yes No
			Meter 95031.90	Yes No
1255	TW4-22	57.00	Flow 17.6 GPM	Yes No
			Meter 50065.10	Yes No
1249	TW4-24	64.60	Flow 18.0 GPM	Yes No
			Meter 413128.70	Yes No
1233	TW4-25	65.17	Flow 18.0 GPM	Yes No
			Meter 290318.80	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/29/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1234	MW-4	67.79	Flow	3.2 GPM	Yes No
			Meter	155420.64	Yes No
1230	MW-26	67.17	Flow	10.2 GPM	Yes No
			Meter	345972.90	Yes No
1307 ~~1237~~	TW4-19	76.42 ~~70.10~~	Flow	14.0 GPM	Yes No
			Meter	1386264.00	Yes No
1226	TW4-20	61.80	Flow	9.8 GPM	Yes No
			Meter	578073.90	Yes No
1237	TW4-4	70.10	Flow	8.0 GPM	Yes No
			Meter	146845.34	Yes No
1213	TWN-2	59.03	Flow	18.6 GPM	Yes No
			Meter	98247.70	Yes No
1222	TW4-22	57.13	Flow	18.0 GPM	Yes No
			Meter	51615.84	Yes No
1218	TW4-24	64.98	Flow	18.0 GPM	Yes No
			Meter	429975.36	Yes No
1209	TW4-25	68.90	Flow	18.1 GPM	Yes No
			Meter	299418.40	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 7/30/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Time	Well	Depth*
0636	MW-4	67.76	0631	TWN-1	56.11
0639	TW4-1	64.35	0639	TWN-2	37.24
0635	TW4-2	65.60	0641	TWN-3	37.56
0712	TW4-3	51.65	0646	TWN-4	48.22
0641	TW4-4	69.82	0653	TWN-7	87.00
0716	TW4-5	59.35	0643	TWN-18	58.62
0642	TW4-6	69.35	0650	MW-27	52.51
0637	TW4-7	65.16	0719	MW-30	75.35
0720	TW4-8	65.12	0715	MW-31	67.45
0714	TW4-9	57.09	0651	TW4-28	36.78
0718	TW4-10	57.42	0659	TW4-29	72.15
0633	TW4-11	57.11	0702	TW4-30	77.90
0649	TW4-12	42.10		TW4-31	84.01
0653	TW4-13	47.50			
0655	TW4-14	85.60			
0708	TW4-15	63.21			
0710	TW4-16	60.60			
0712	TW4-17	73.92			
0633	TW4-18	59.96			
0730	TW4-19	60.30			
0705	TW4-20	61.25			
0637	TW4-21	59.64			
0702	TW4-22	57.15			
0708	TW4-23	64.36			
0658	TW4-24	64.01			
0628	TW4-25	57.13			
0644	TW4-26	62.84			
0657	TW4-27	81.52			

Comments: (Please note the well number for any comments)

Some times may be the same because depths were taken simultaneously.

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 8/5/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1259	MW-4	68.01	Flow 3.2 GPM	Yes No
			Meter 160969.65	Yes No
1256	MW-26	75.74	Flow 10.5 GPM	Yes No
			Meter 347880.63	Yes No
1316	TW4-19	60.44	Flow 14.0 GPM	Yes No
			Meter 1412339.00	Yes No
1252	TW4-20	62.86	Flow 10.4 GPM	Yes No
			Meter ~~5804630.88~~ 580463.08	Yes No
1303	TW4-4	70.04	Flow 8.2 GPM	Yes No
			Meter 151513.00	Yes No
1440	TWN-2	32.19	Flow 18.6 GPM	Yes No
			Meter 101856.60	Yes No
1448	TW4-22	57.55	Flow 18.4 GPM	Yes No
			Meter 53667.30	Yes No
1445	TW4-24	65.10	Flow 18.0 GPM	Yes No
			Meter 449282.10	Yes No
1428	TW4-25	57.95	Flow 18.6 GPM	Yes No
			Meter 310252.90	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/12/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1246	MW-4	67.84	Flow	3.3 GPM	Yes No
			Meter	166100.21	Yes No
1243	MW-26	65.68	Flow	10.1 GPM	Yes No
			Meter	349648.06	Yes No
1325	TW4-19	66.42	Flow	14.0 GPM	Yes No
			Meter	1440777.00	Yes No
1240	TW4-20	62.13	Flow	10.5 GPM	Yes No
			Meter	581902.16	Yes No
1250	TW4-4	70.42	Flow	8.0 GPM	Yes No
			Meter	156111.20	Yes No
1227	TWN-2	35.70	Flow	18.6 GPM	Yes No
			Meter	105458.30	Yes No
1236	TW4-22	57.35	Flow	18.4 GPM	Yes No
			Meter	55053	Yes No
1232	TW4-24	65.19	Flow	18.0 GPM	Yes No
			Meter	468224.80	Yes No
1223	TW4-25	73.30	Flow	18.4 GPM	Yes No
			Meter	320963.90	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/19/2013 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1355	MW-4	68.01	Flow 3.4	Yes
			Meter 171561.92	Yes
1350	MW-26	70.13	Flow 10.5	Yes
			Meter 351525.82	Yes
1415	TW4-19	67.13	Flow 14.0	Yes
			Meter 1469844.04	Yes
1345	TW4-20	62.45	Flow 10.3	Yes
			Meter 583345.08	Yes
1358	TW4-4	69.93	Flow 8.0	Yes
			Meter 160983.4	Yes
1409	TWN-2	33.21	Flow 18.5	Yes
			Meter 105953.8	Yes
3342	TW4-22	65.15	Flow 18.4	Yes
			Meter 57377.9	Yes
1339	TW4-24	64.03	Flow 18.0	Yes
			Meter 487124.7	Yes
1405	TW4-25	60.53	Flow 18.3	Yes
			Meter 331320.2	Yes

Operational Problems (Please list well number): ______

Corrective Action(s) Taken (Please list well number): ______

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 8/23/13 **Name** Garrin Palmer

Time	Well	Depth*	Time	Well	Depth*
1016	MW-4	76.70	0934	TWN-1	56.33
1019	TW4-1	64.35	0954	TWN-2	33.13
1048	TW4-2	65.55	0931	TWN-3	37.57
1012	TW4-3	51.65	0925 cp	TWN-4	48.50
1020	TW4-4	71.38	1253 ~~1253~~	TWN-7	87.04
1009	TW4-5	59.50	0927	TWN-18	58.64
1021	TW4-6	69.20	1250	MW-27	52.50
1017	TW4-7	65.20	1300	MW-30	75.32
1014	TW4-8	65.05	1302	MW-31	67.31
1011	TW4-9	57.22	1037	TW4-28	36.74
1007	TW4-10	57.55	1028	TW4-29	72.00
1047	TW4-11	57.55	1029	TW4-30	77.70
1039	TW4-12	42.07	1031	TW4-31	83.77
1035	TW4-13	47.21			
1033	TW4-14	85.36			
1005	TW4-15	63.78			
1305	TW4-16	60.90			
1308	TW4-17	73.90			
0936	TW4-18	60.21			
1100	TW4-19	68.60			
1003	TW4-20	62.35			
0938	TW4-21	60.20			
1002	TW4-22	57.03			
1043	TW4-23	64.30			
1000	TW4-24	65.28			
0941	TW4-25	63.32			
1022	TW4-26	62.76			
1026	TW4-27	81.30			

Comments: (Please note the well number for any comments)

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 8/26/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1344	MW-4	69.20	Flow	3.1 GPM	Yes No
			Meter	176934.09	Yes No
1340	MW-26	63.39	Flow	10.4 GPM	Yes No
			Meter	353425.74	Yes No
1440	TW4-19	64.86	Flow	14.0 GPM	Yes No
			Meter	1499215.00	Yes No
1338	TW4-20	62.34	Flow	10.0 GPM	Yes No
			Meter	584883.25	Yes No
1348	TW4-4	71.46	Flow	8.1 GPM	Yes No
			Meter	165672.10	Yes No
1320	TWN-2	32.80	Flow	18.6 GPM	Yes No
			Meter	11253.30	Yes No
1333	TW4-22	57.34	Flow	18.4 GPM	Yes No
			Meter	58729.40	Yes No
1328	TW4-24	75.10	Flow	17.9 GPM	Yes No
			Meter	502614.00	Yes No
1300	TW4-25	60.15	Flow	18.0 GPM	Yes No
			Meter	341824.80	Yes No

Operational Problems (Please list well number): __________

Corrective Action(s) Taken (Please list well number): __________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/3/13 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1332	MW-4	69.71	Flow	3.3 GPM	Yes No
			Meter	~~3.3 GPM~~ 182330.60	Yes No
1325	MW-26	63.30	Flow	10.4 GPM	Yes No
			Meter	355245.76	Yes No
1140	TW4-19	59.22	Flow	14.0 GPM	Yes No
			Meter	1506246.00	Yes No
1312	TW4-20	61.30	Flow	9.6 GPM	Yes No
			Meter	586204.75	Yes No
1339	TW4-4	68.04	Flow	8.0 GPM	Yes No
			Meter	170393.70	Yes No
1245	TWN-2	30.20	Flow	18.7 GPM	Yes No
			Meter	116725.0	Yes No
1303	TW4-22	57.50	Flow	18.5	Yes No
			Meter	60602.00	Yes No
1252	TW4-24	65.70	Flow	18.4 GPM	Yes No
			Meter	324637.00	Yes No
1235	TW4-25	65.90	Flow	18.0 GPM	Yes No
			Meter	353884.76	Yes No

Operational Problems (Please list well number): ______________________

Corrective Action(s) Taken (Please list well number): ______________________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/9/13 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1223	MW-4	67.98	Flow 3.4 GPM	Yes No
			Meter 186847.91	Yes No
1231	MW-26	66.72	Flow 10.1 GPM	Yes No
			Meter 356982.86	Yes No
1308	TW4-19	65.96	Flow 14.0 GPM	Yes No
			Meter 1533900.00	Yes No
1236	TW4-20	61.85	Flow 9.8 GPM	Yes No
			Meter 587563.47	Yes No
1226	TW4-4	69.10	Flow 8.6 GPM	Yes No
			Meter 174228.40	Yes No
1200	TWN-2	29.60	Flow 18.5 GPM	Yes No
			Meter 119042.30	Yes No
1242	TW4-22	57.50	Flow 18.1 GPM	Yes No
			Meter 62381.40	Yes No
1247	TW4-24	65.60	Flow 18.0 GPM	Yes No
			Meter 542200.10	Yes No
1152	TW4-25	57.85	Flow 18.0 GPM	Yes No
			Meter 362699.80	Yes No

Operational Problems (Please list well number):

Corrective Action(s) Taken (Please list well number):

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/17/13 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1027	MW-4	70.52	Flow	3.4 GPM	Yes No
			Meter	193118.14	Yes No
1022	MW-26	62.48	Flow	10.5 GPM	Yes No
			Meter	359096.11	Yes No
1500	TW4-19	59.64	Flow	14.0 GPM	Yes No
			Meter	1543673.00	Yes No
1018	TW4-20	61.11	Flow	9.6 GPM	Yes No
			Meter	589192.80	Yes No
1031	TW4-4	69.20	Flow	8.0 GPM	Yes No
			Meter	179735.30	Yes No
1248	TWN-2	32.12	Flow	18.5 GPM	Yes No
			Meter	124170.60	Yes No
1014	TW4-22	57.70	Flow	18.2 GPM	Yes No
			Meter	64429.10	Yes No
1010	TW4-24	68.98	Flow	18.0 GPM	Yes No
			Meter	564631.00	Yes No
1243	TW4-25	70.62	Flow	18.3 GPM	Yes No
			Meter	374768.90	Yes No

Operational Problems (Please list well number): Breaker was tripped on TW4-19.

Corrective Action(s) Taken (Please list well number): Breaker was re-set and well is pumping normally.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

4.3
3/2/61

Date 9/23/13 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1239	MW-4	67.45	Flow	3.3 GPM	Yes No
			Meter	196953.83	Yes No
1236	MW-26	66.70	Flow	10.2 GPM	Yes No
			Meter	360821.30	Yes No
1301	TW4-19	70.32	Flow	14.0 GPM	Yes No
			Meter	1566157.00	Yes No
1232	TW4-20	61.30	Flow	10.4 GPM	Yes No
			Meter	590149.26	Yes No
1244	TW4-4	69.04	Flow	8.0 GPM	Yes No
			Meter	183021.50	Yes No
1218	TWN-2	28.50	Flow	18.7 GPM	Yes No
			Meter	126886.40	Yes No
1229	TW4-22	57.78	Flow	18.4 GPM	Yes No
			Meter	65899.70	Yes No
1225	TW4-24	66.04	Flow	18.0 GPM	Yes No
			Meter	580019.40	Yes No
1213	TW4-25	101.46	Flow	18.0 GPM	Yes No
			Meter	382255.00	Yes No

Operational Problems (Please list well number): __________

Corrective Action(s) Taken (Please list well number): __________

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/30/2013 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1314	MW-4	68.01	Flow 3.4	Yes No
			Meter 202592.15	Yes No
1310	MW-26	75.69	Flow 10.1	Yes No
			Meter 362324.24	Yes No
1400 ~~1349~~	TW4-19	72.55	Flow 14.0	Yes No
			Meter 1570324.05	Yes No
1306	TW4-20	60.15	Flow 10.4	Yes No
			Meter 591621.36	Yes No
1317	TW4-4	70.03	Flow 8.0	Yes No
			Meter 187835.60	Yes No
1255	TWN-2	34.39	Flow 18.5	Yes No
			Meter 13062520	Yes No
1303	TW4-22	59.11	Flow 18.4	Yes No
			Meter 67793.50	Yes No
1300	TW4-24	64.13	Flow 18.0	Yes No
			Meter 600055.40	Yes No
1250	TW4-25	66.23	Flow 18.0	Yes No
			Meter 392521.22	Yes No

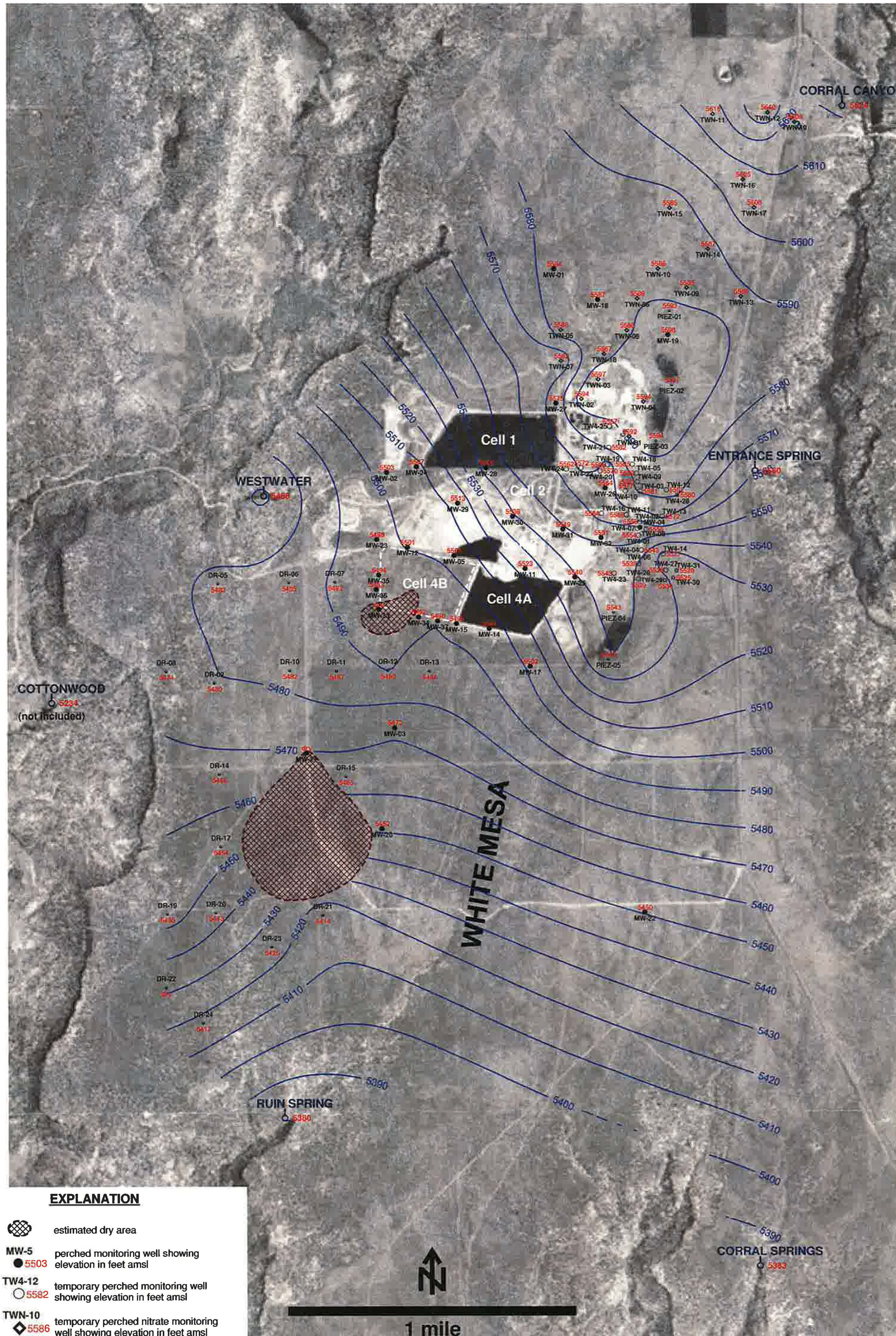
Operational Problems (Please list well number): ______

Corrective Action(s) Taken (Please list well number): ______

* Depth is measured to the nearest 0.01 feet.

Tab D

Kriged Previous Quarter Groundwater Contour Map



NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

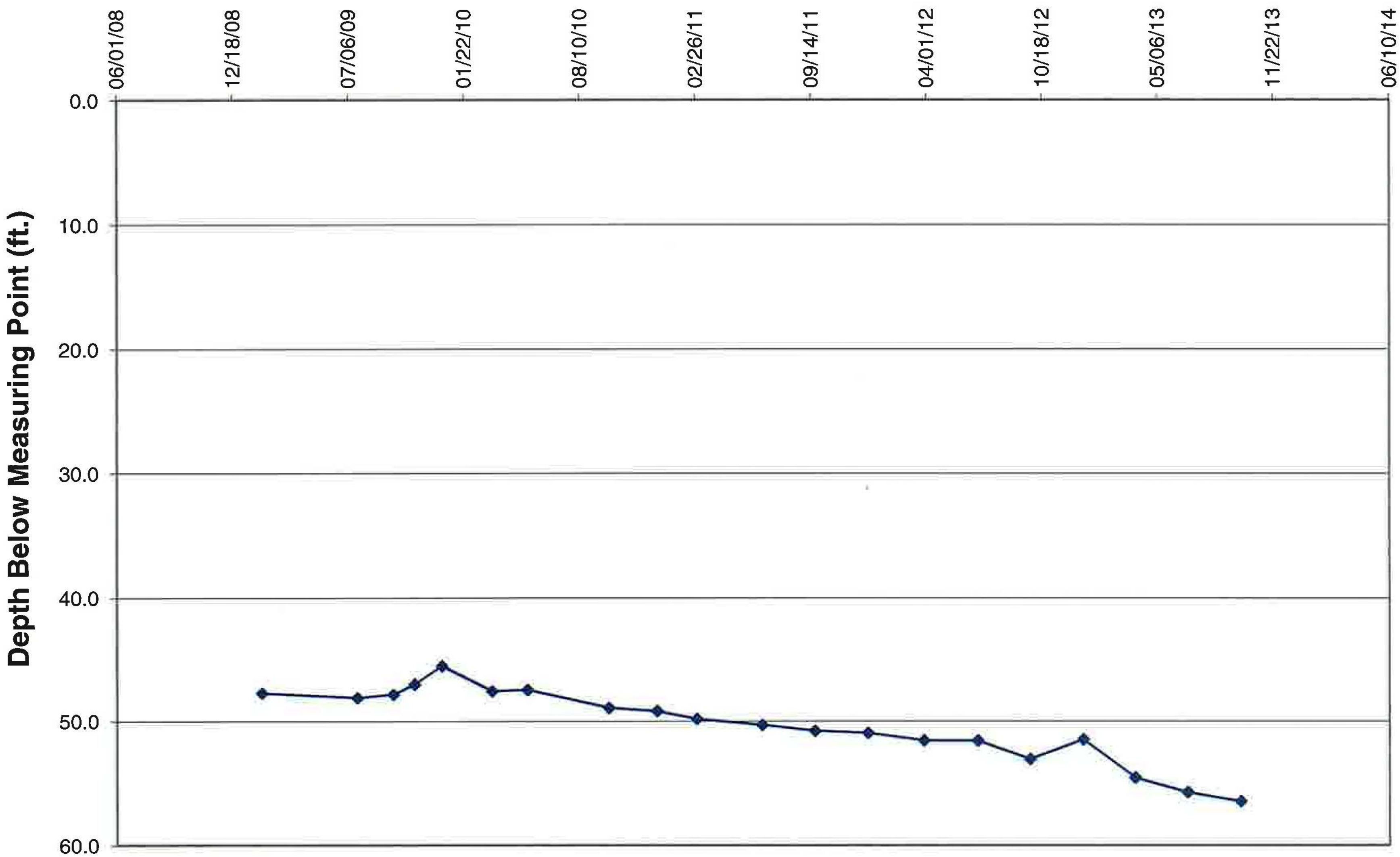
KRIGED 2nd QUARTER, 2013 WATER LEVELS WHITE MESA SITE

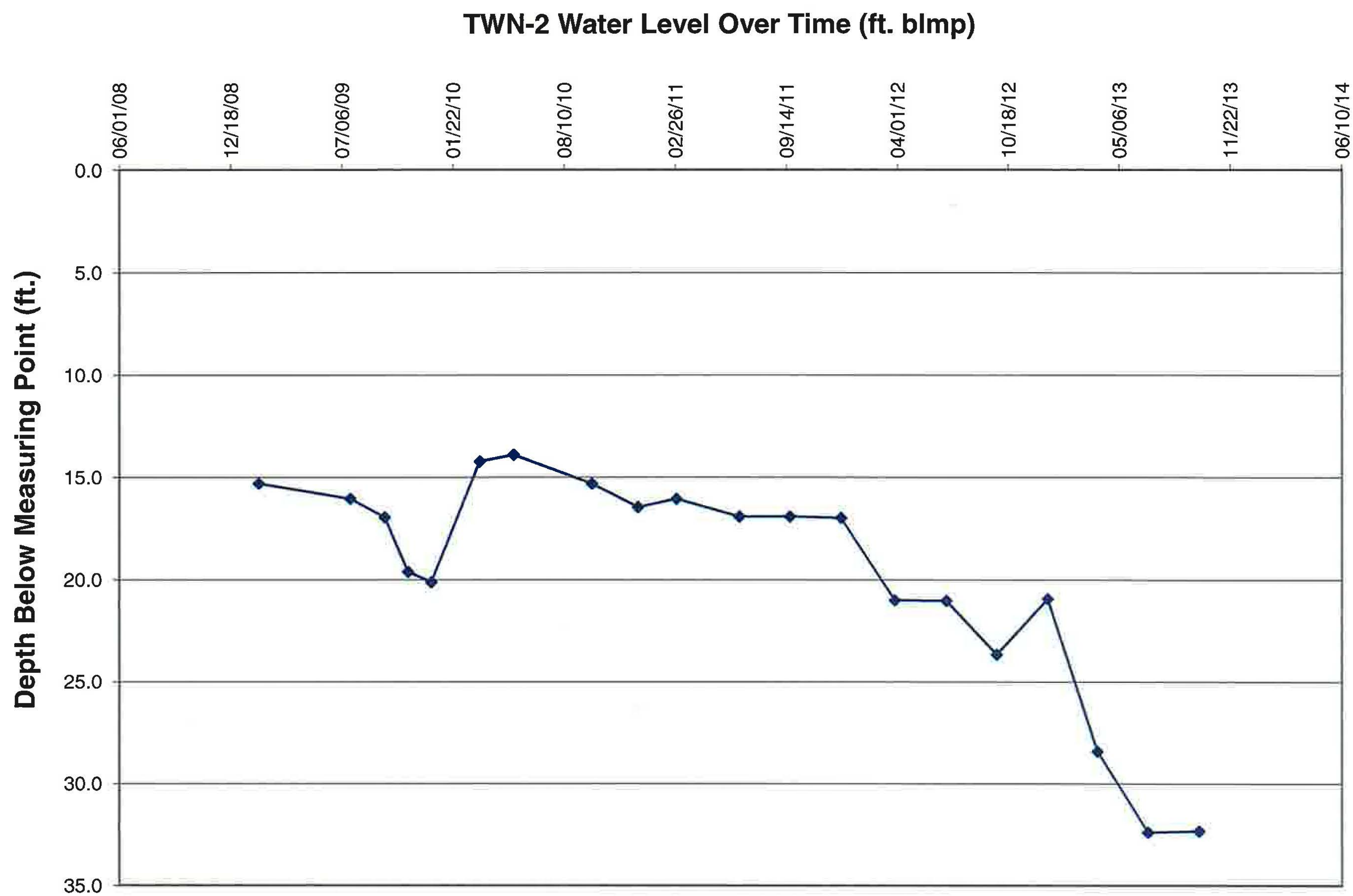
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug13/Uwl0613.srf	D-1

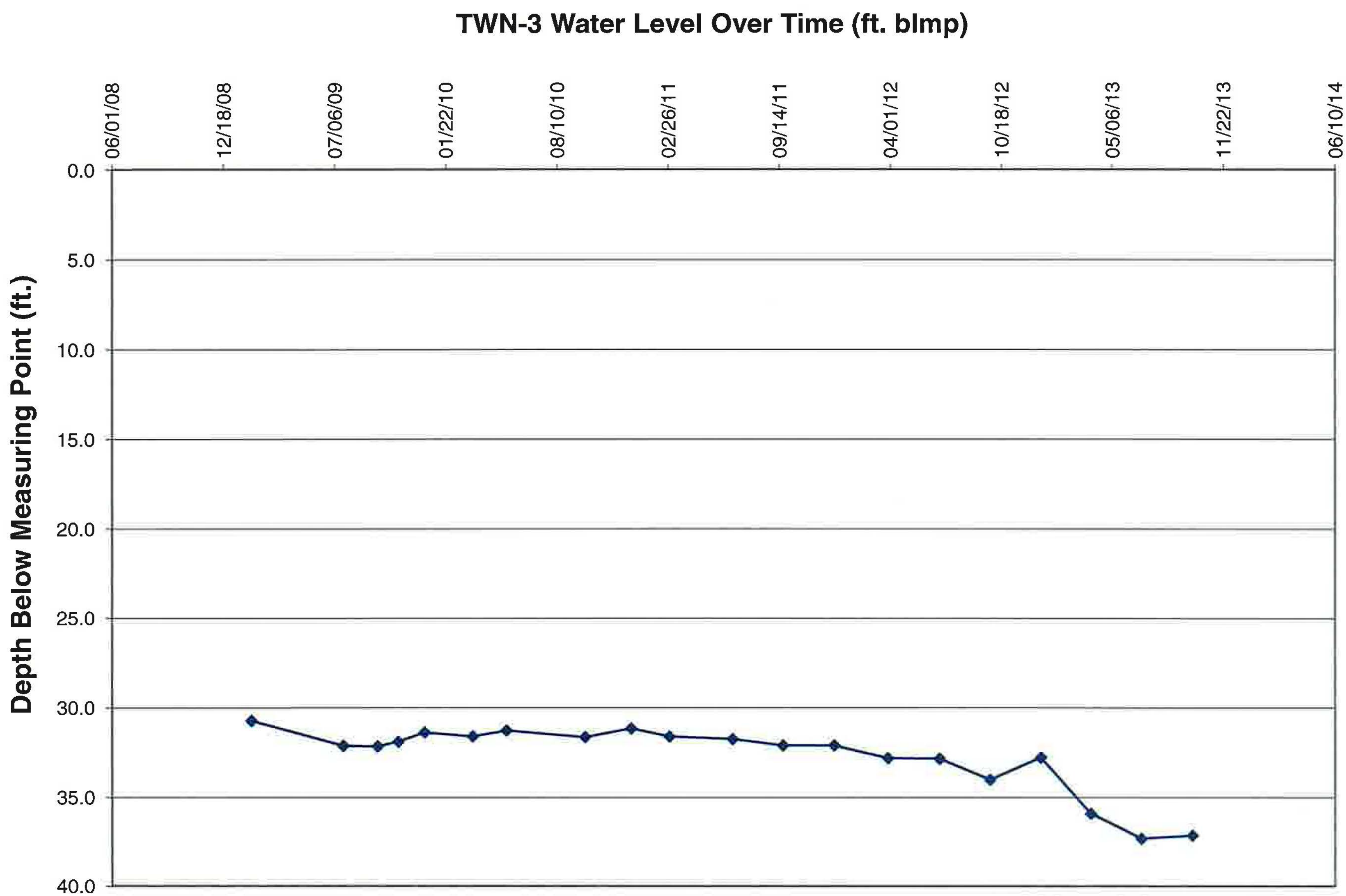
Tab E

Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

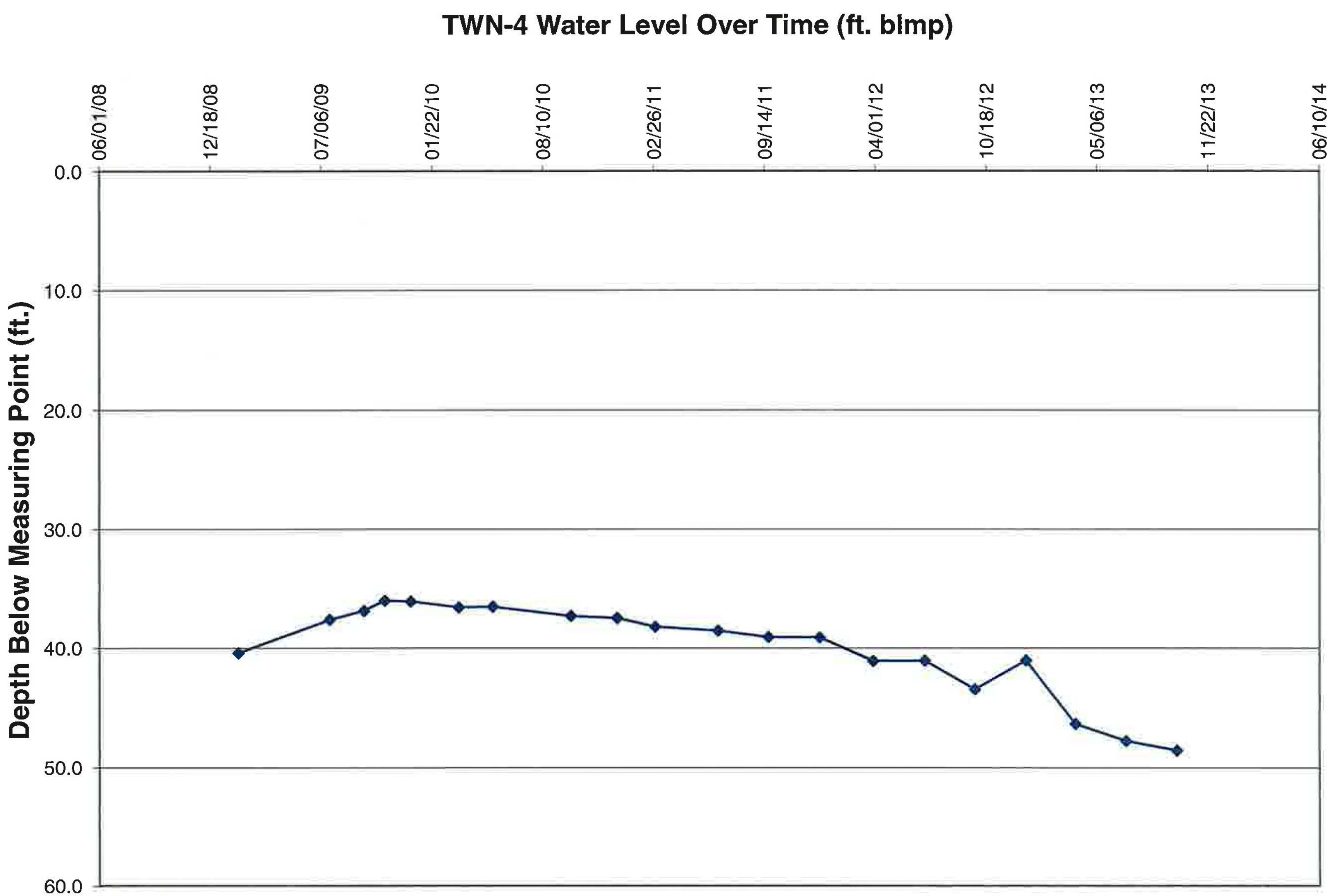
TWN-1 Water Level Over Time (ft. blmp)

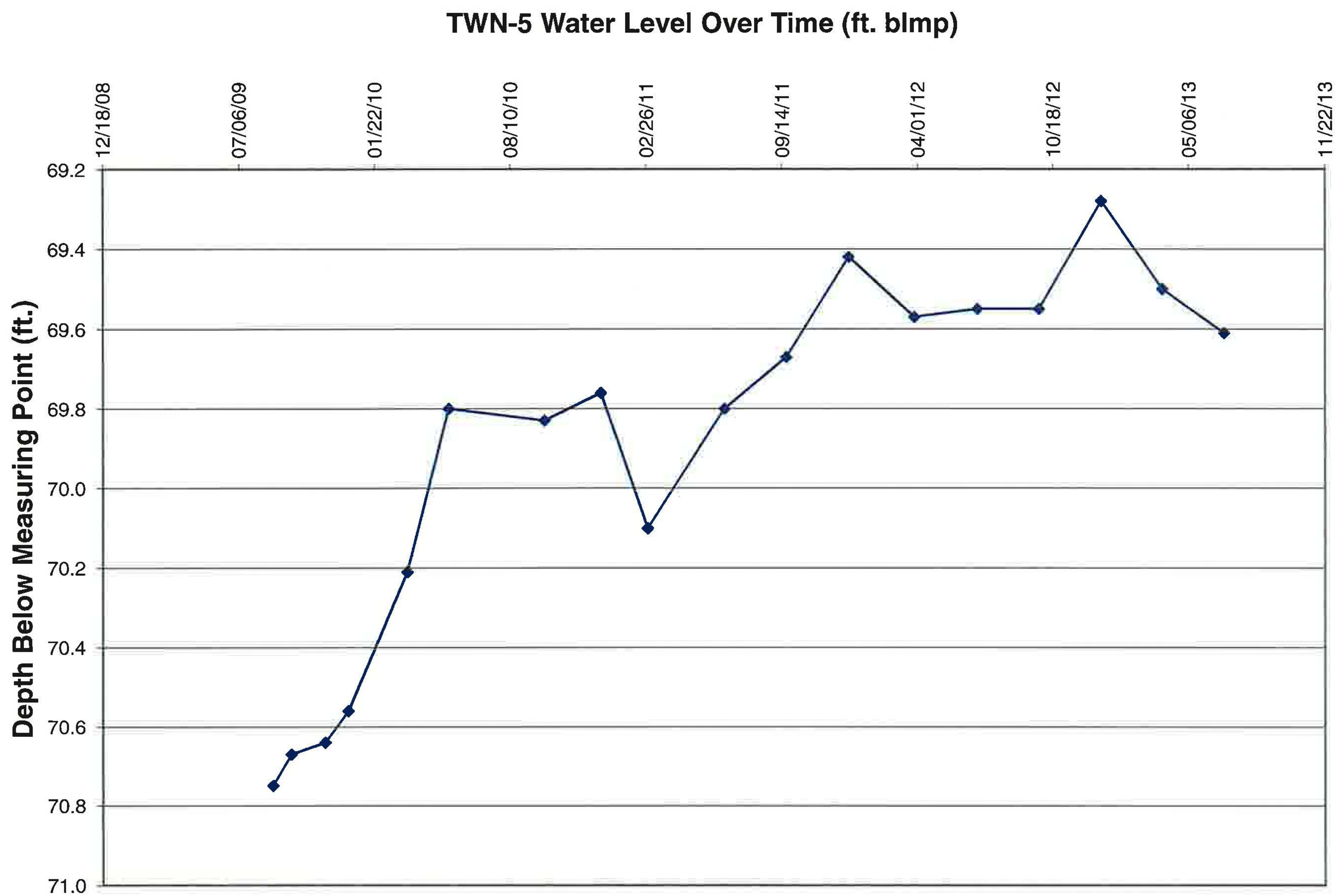



TWN-2 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
06/01/08
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

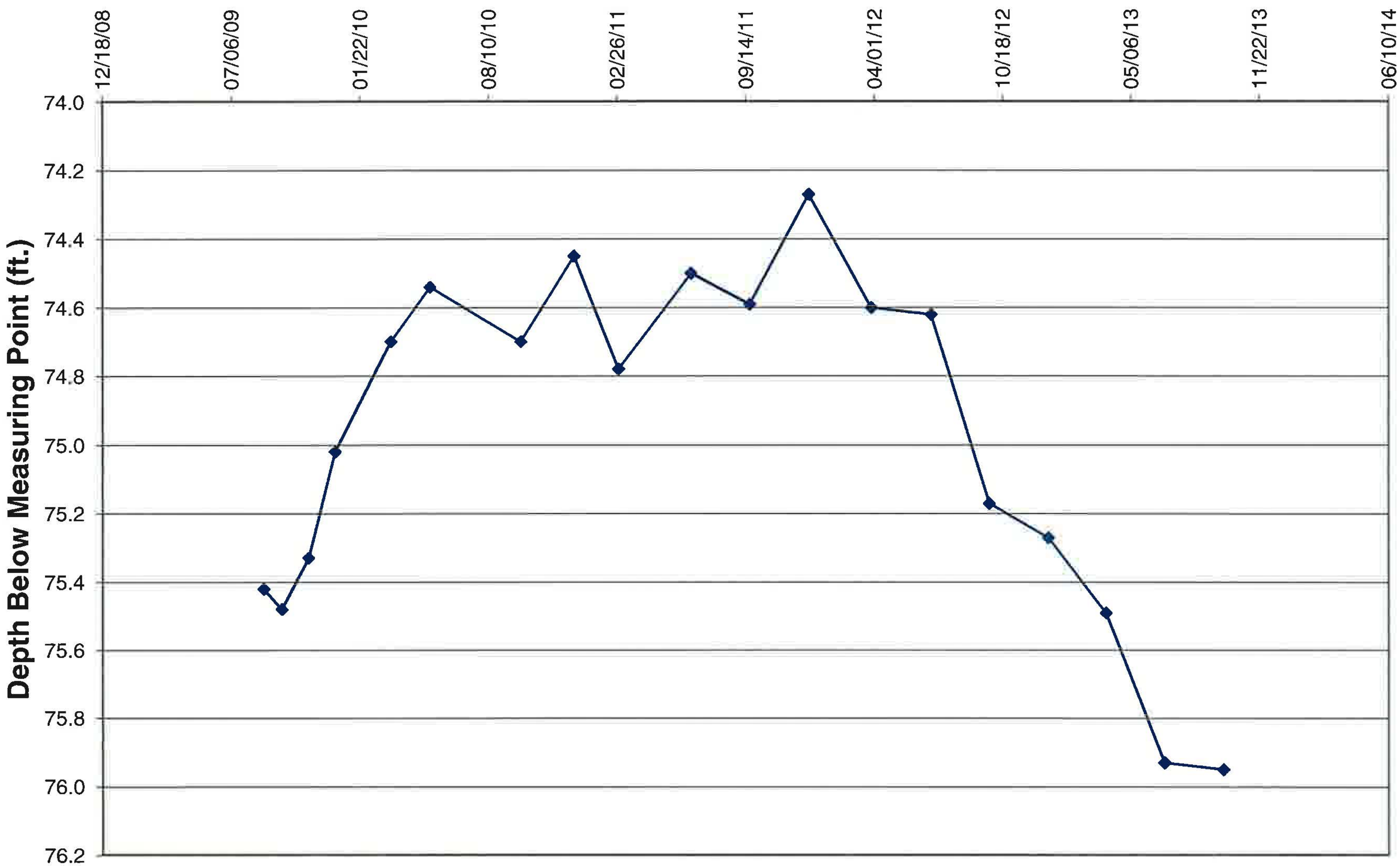


TWN-3 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
06/01/08
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

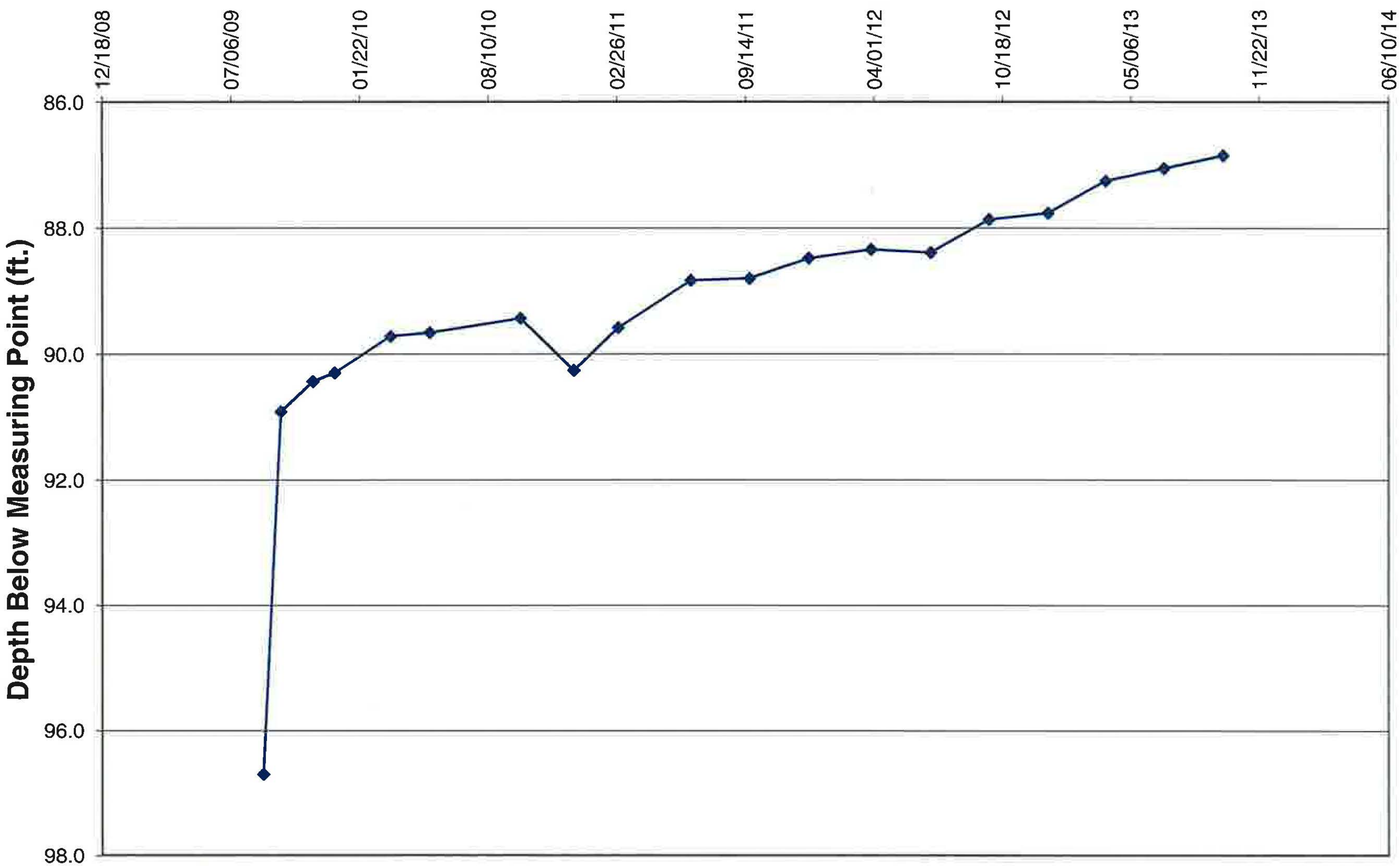

TWN-4 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
06/01/08
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

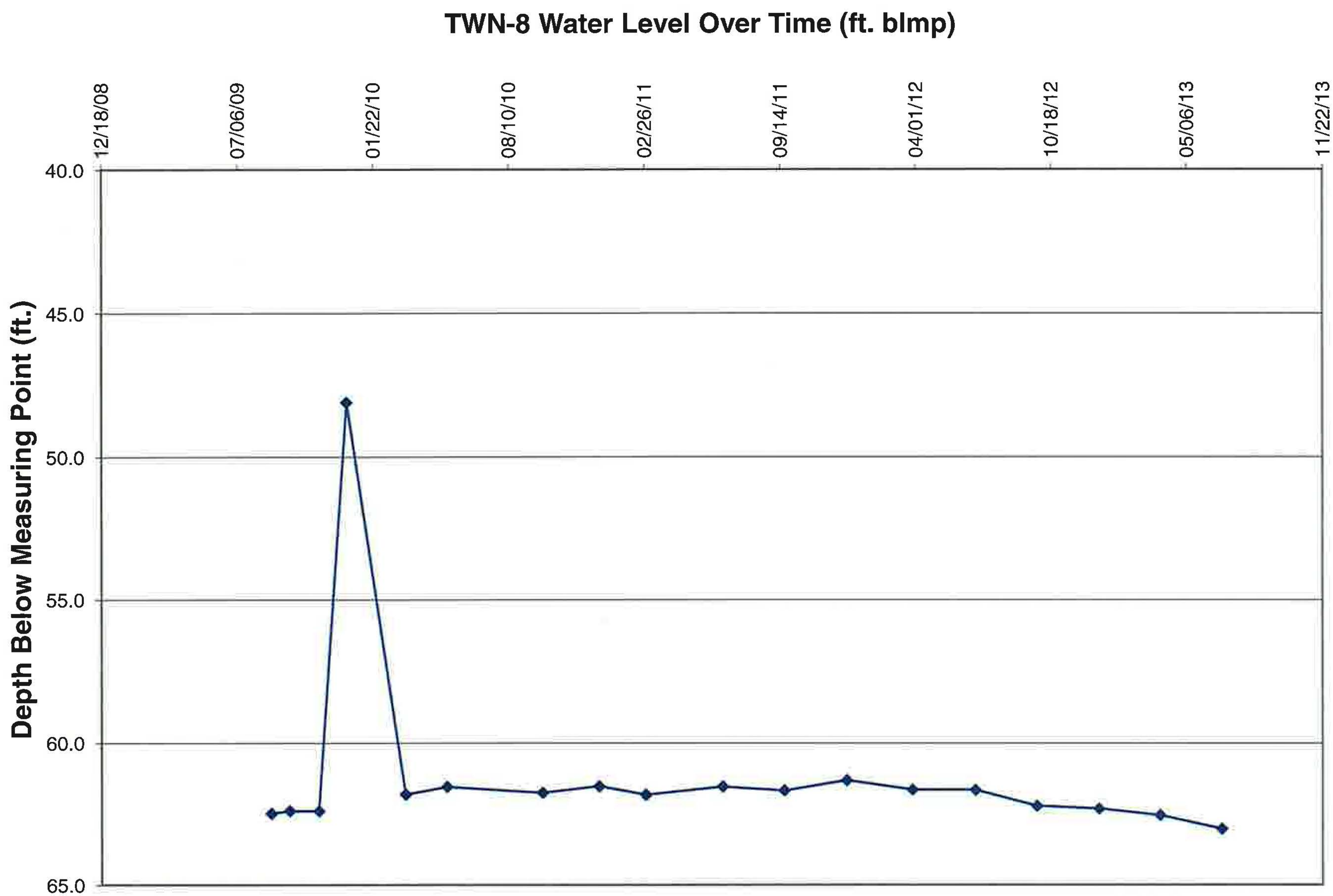

TWN-5 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
69.2
69.4
69.6
69.8
70.0
70.2
70.4
70.6
70.8
71.0
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13

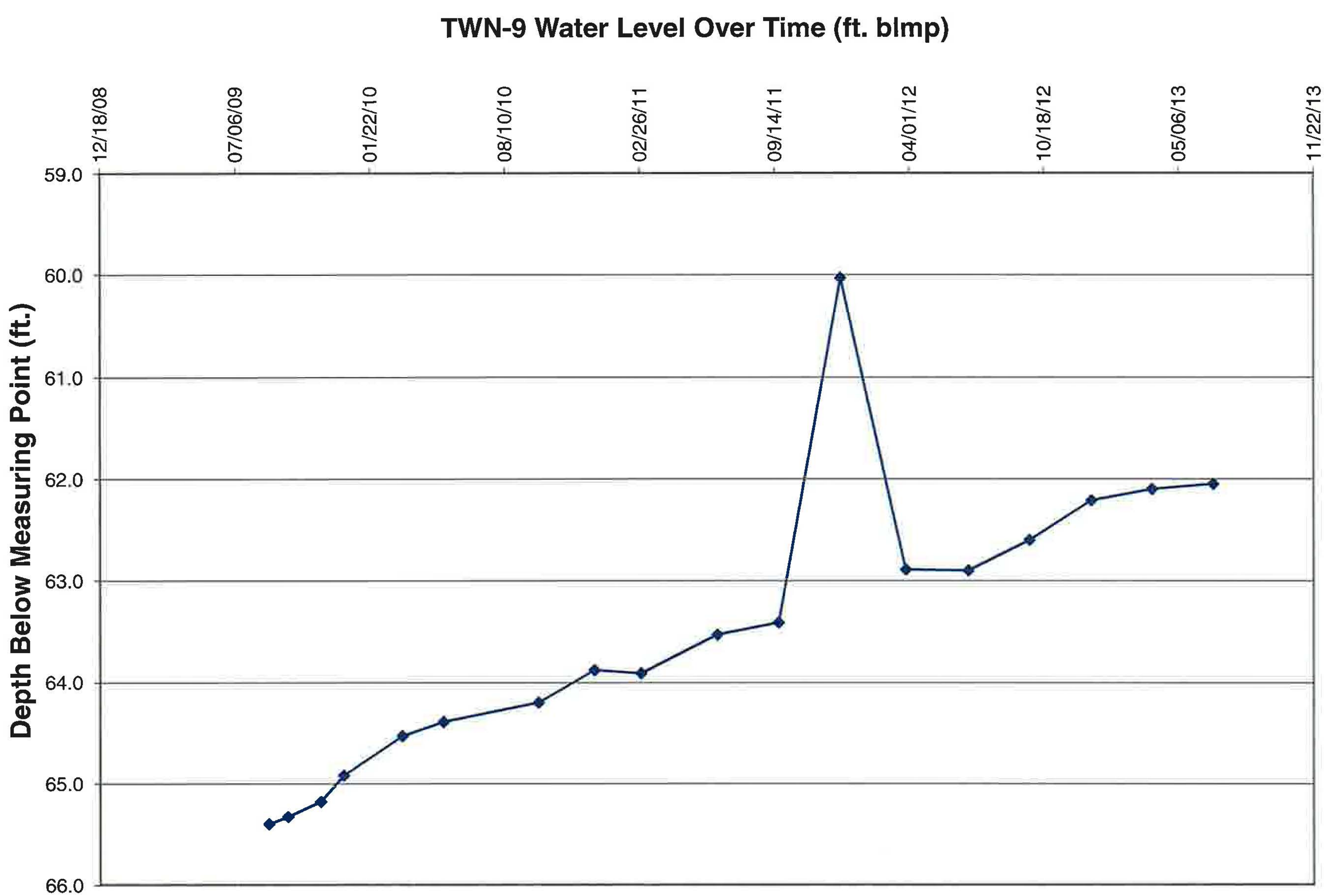
TWN-6 Water Level Over Time (ft. blmp)



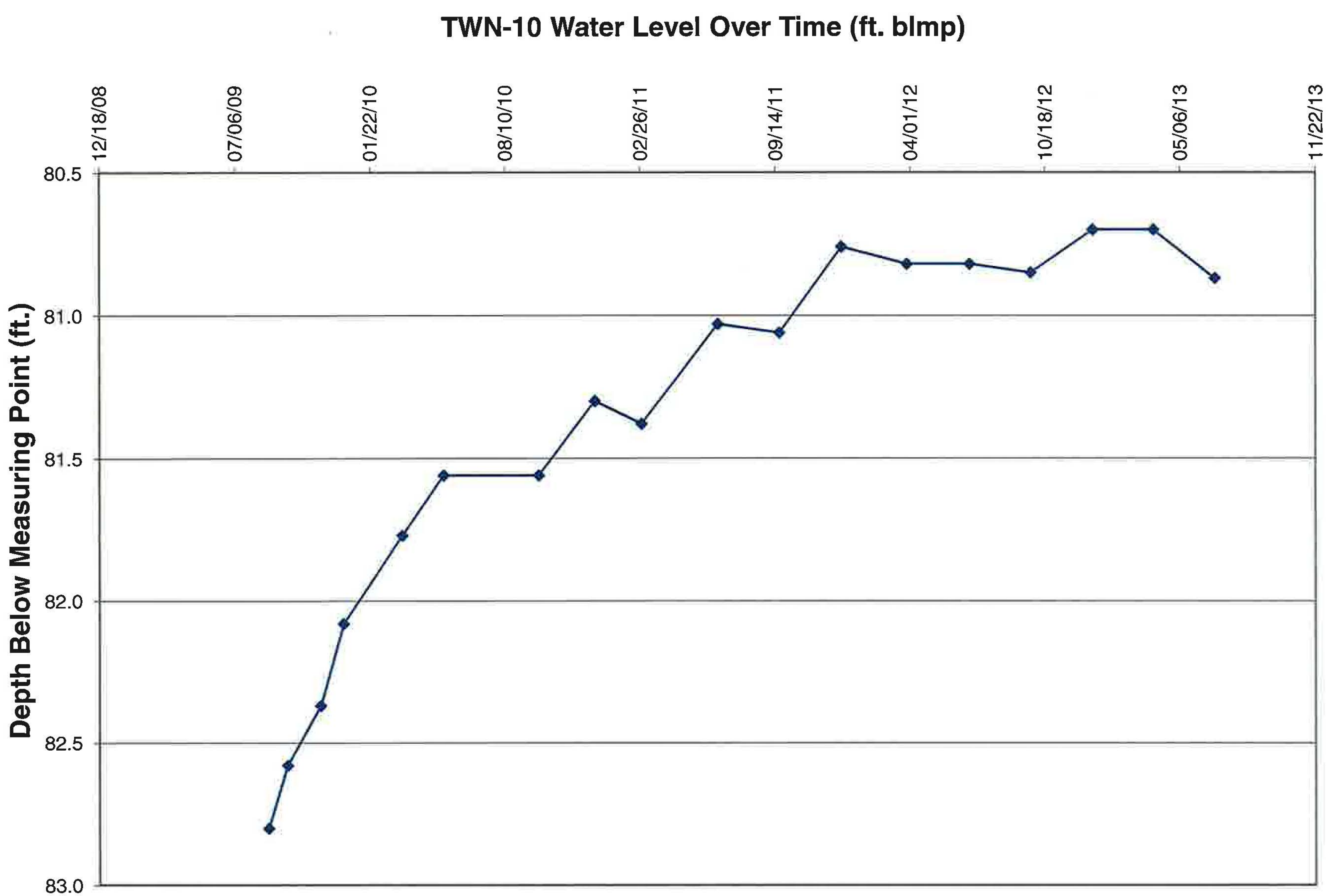
TWN-7 Water Level Over Time (ft. blmp)

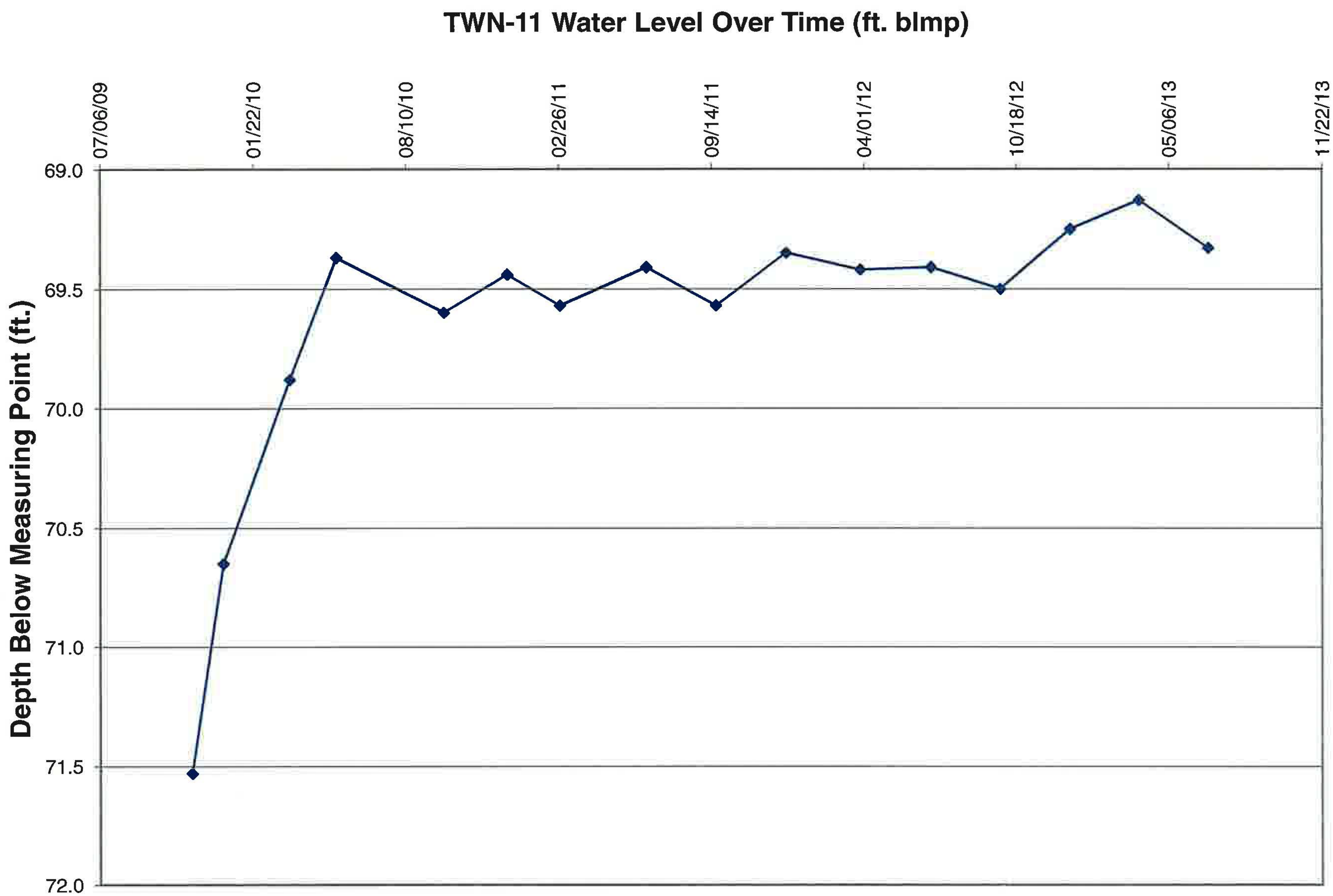



TWN-8 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
40.0
45.0
50.0
55.0
60.0
65.0
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13

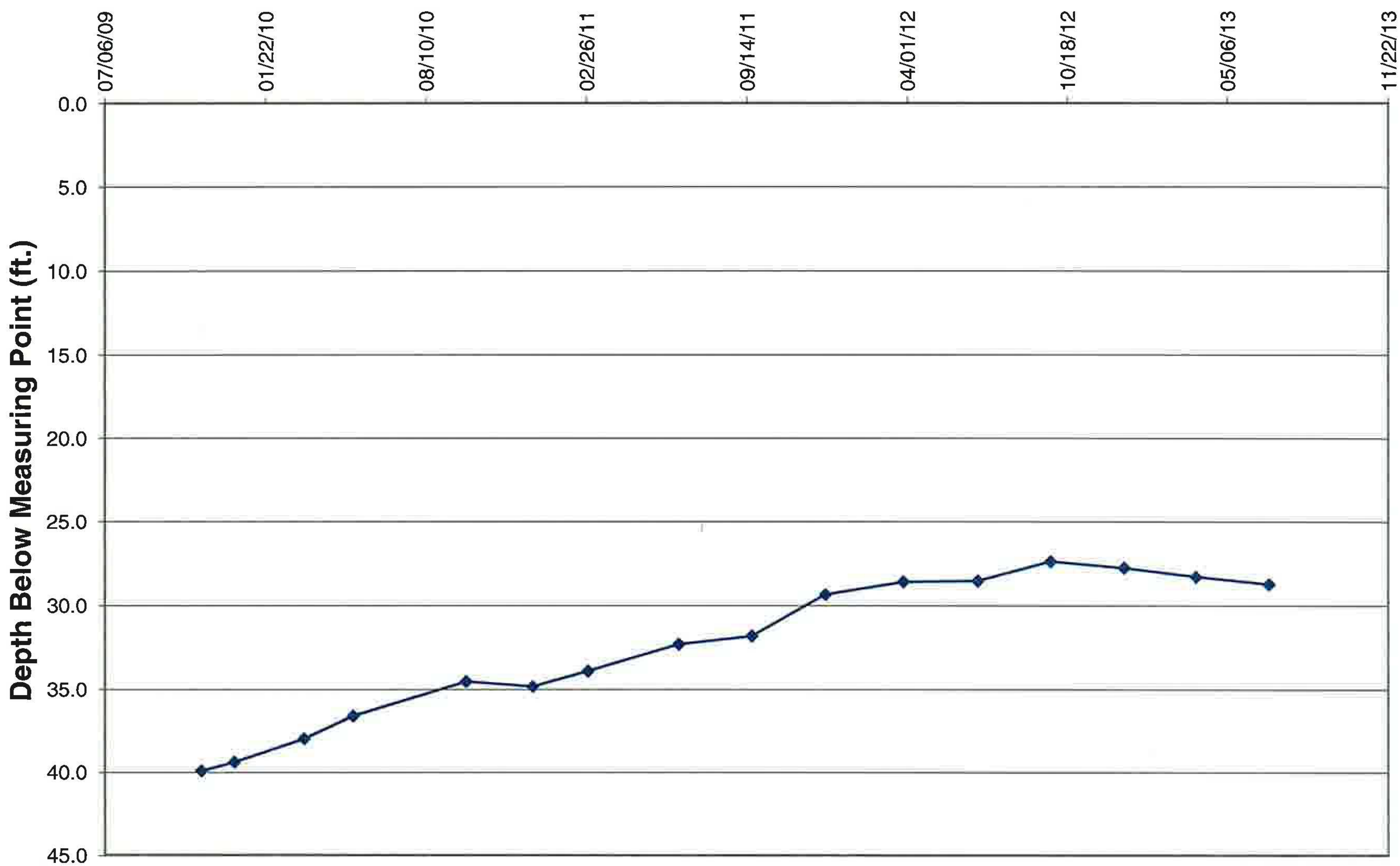


TWN-9 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
59.0
60.0
61.0
62.0
63.0
64.0
65.0
66.0
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13

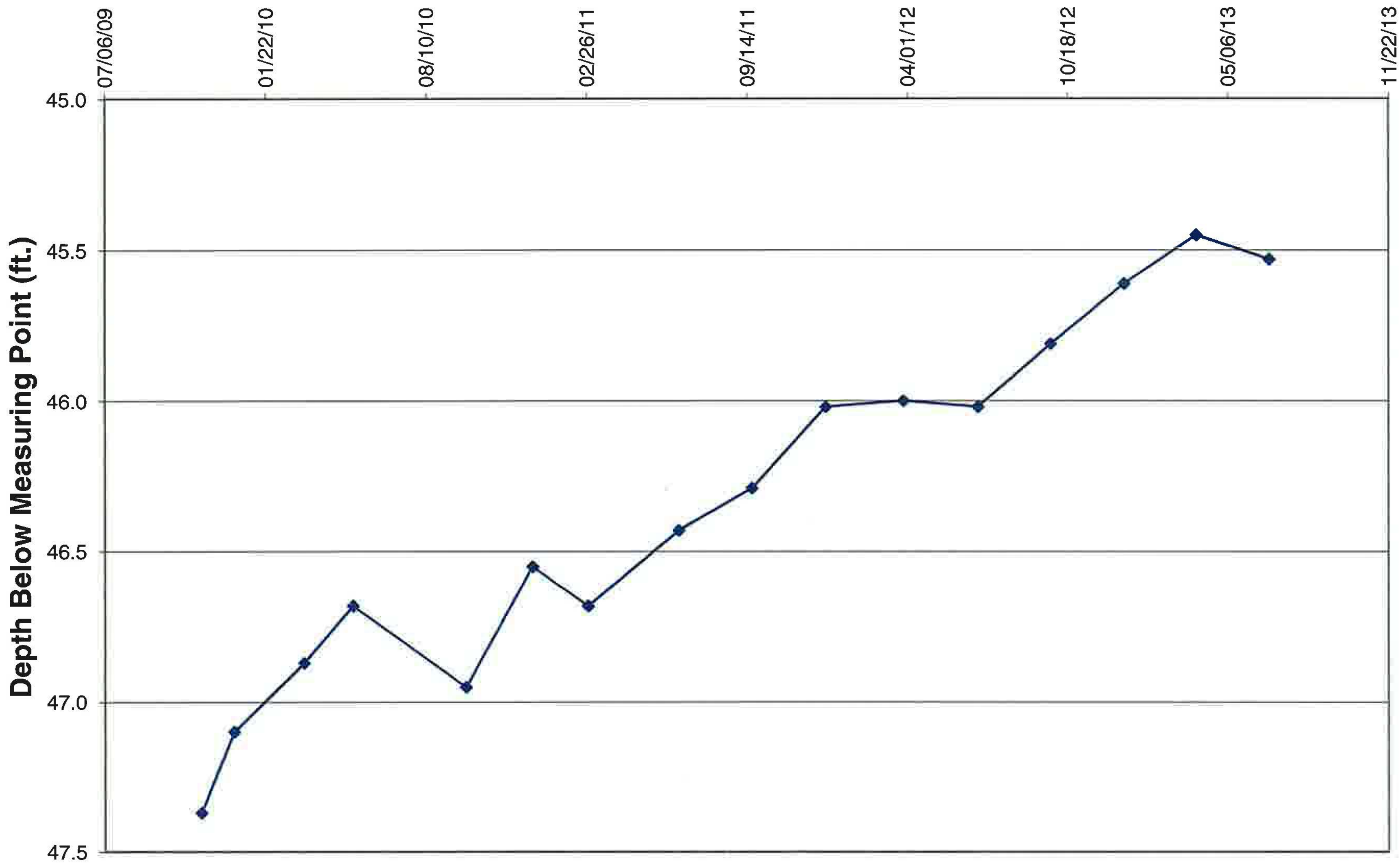

TWN-10 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
80.5
81.0
81.5
82.0
82.5
83.0
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13

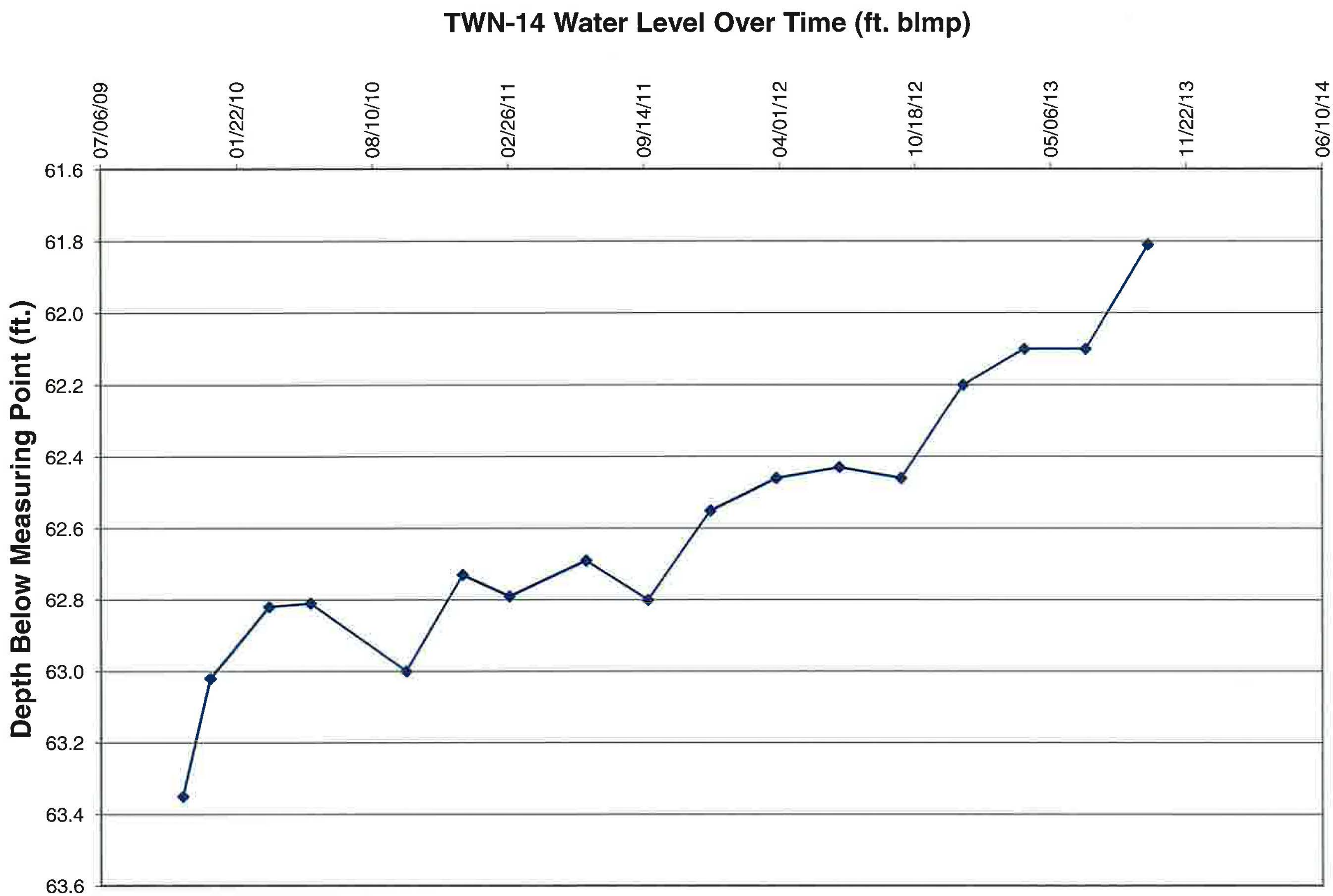

TWN-11 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
69.0
69.5
70.0
70.5
71.0
71.5
72.0
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13

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

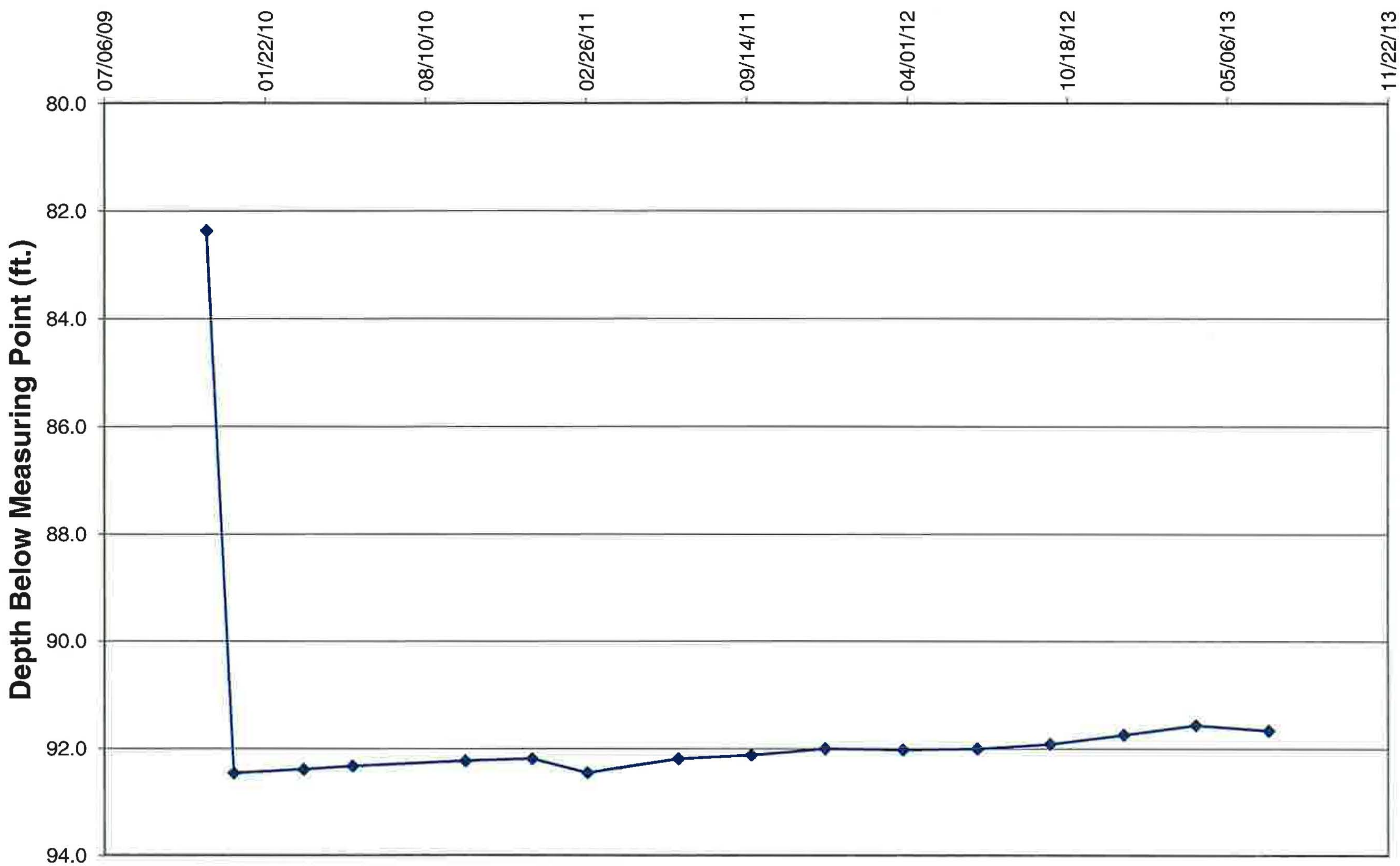


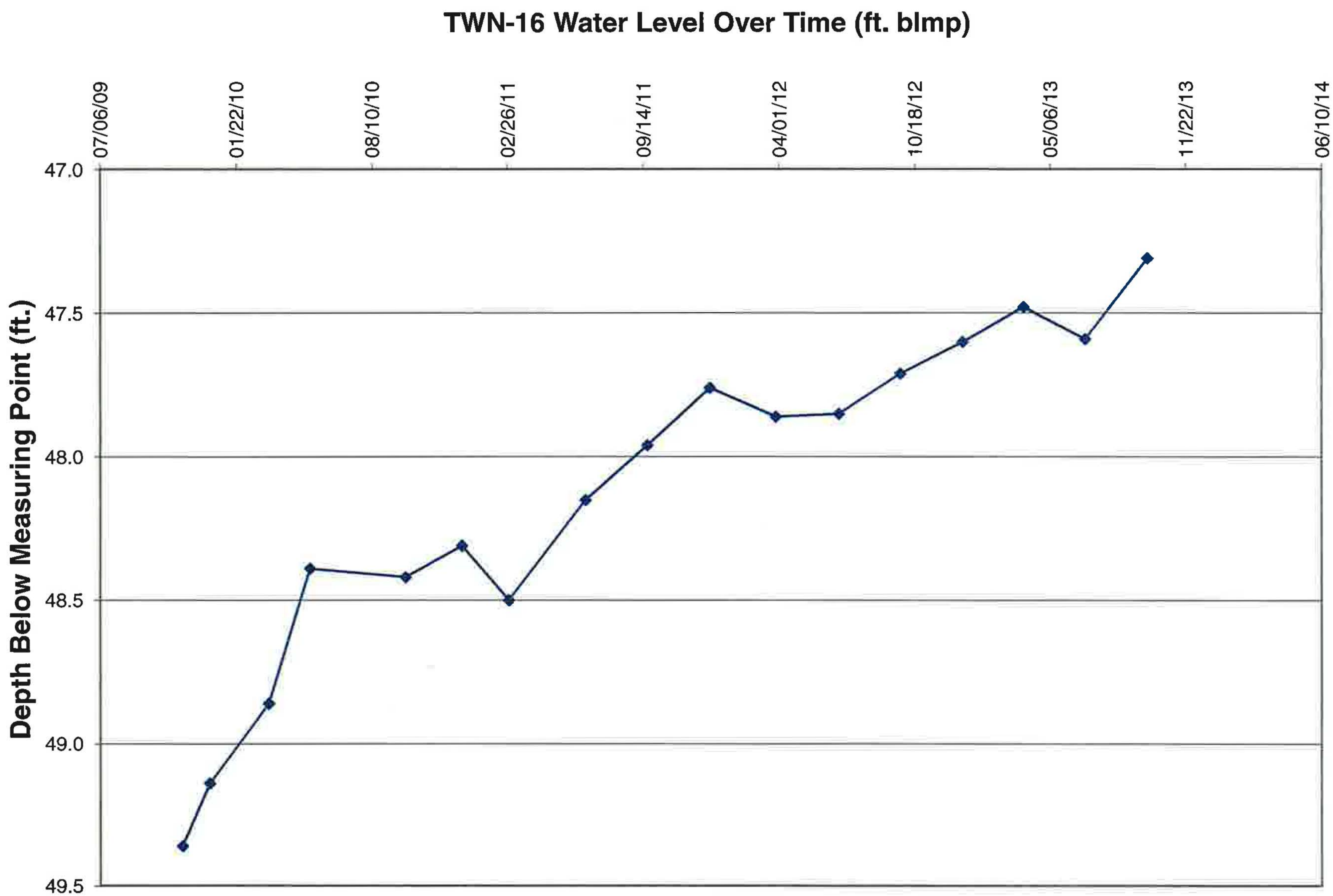
TWN-13 Water Level Over Time (ft. blmp)



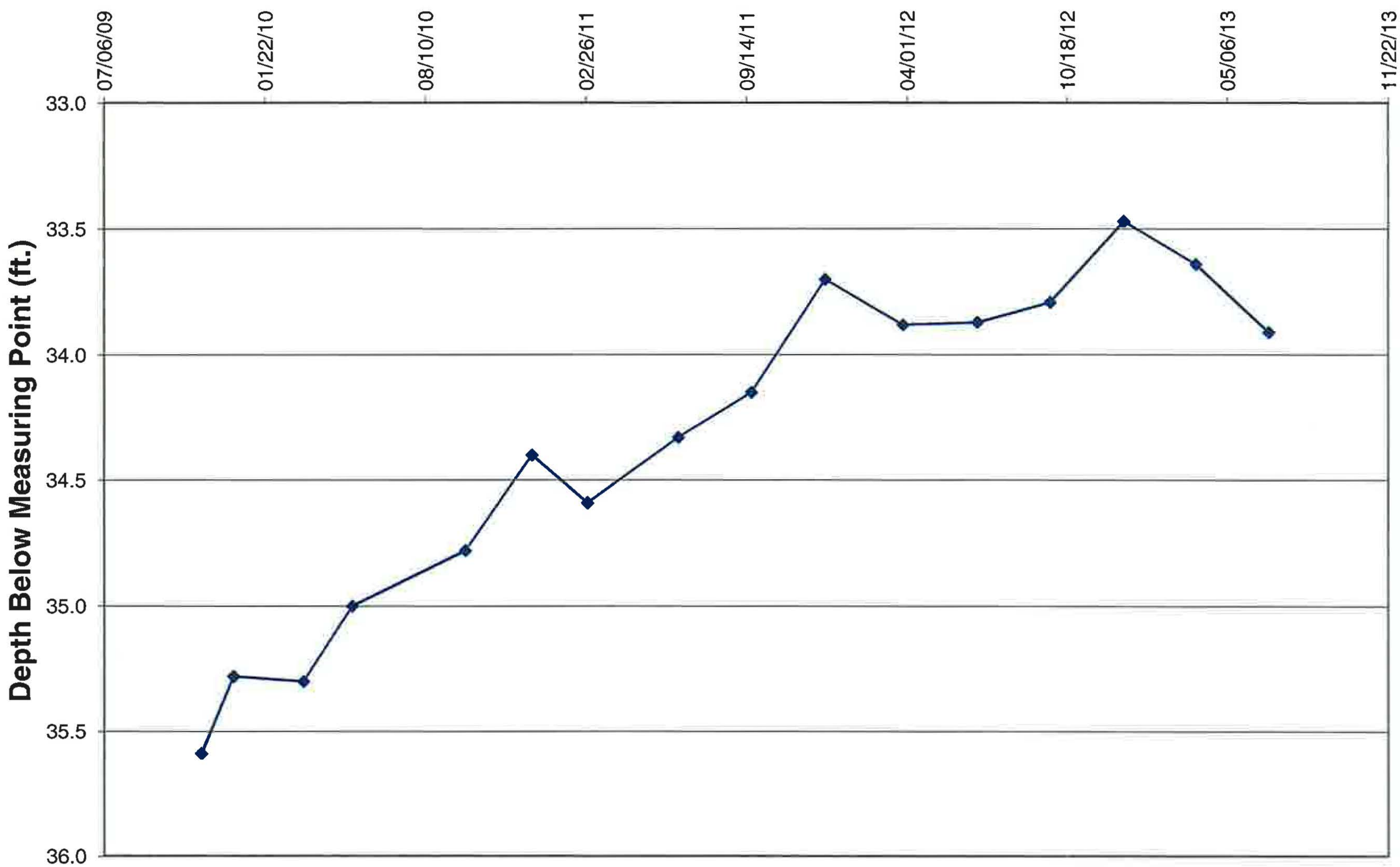

TWN-14 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
61.6
61.8
62.0
62.2
62.4
62.6
62.8
63.0
63.2
63.4
63.6
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

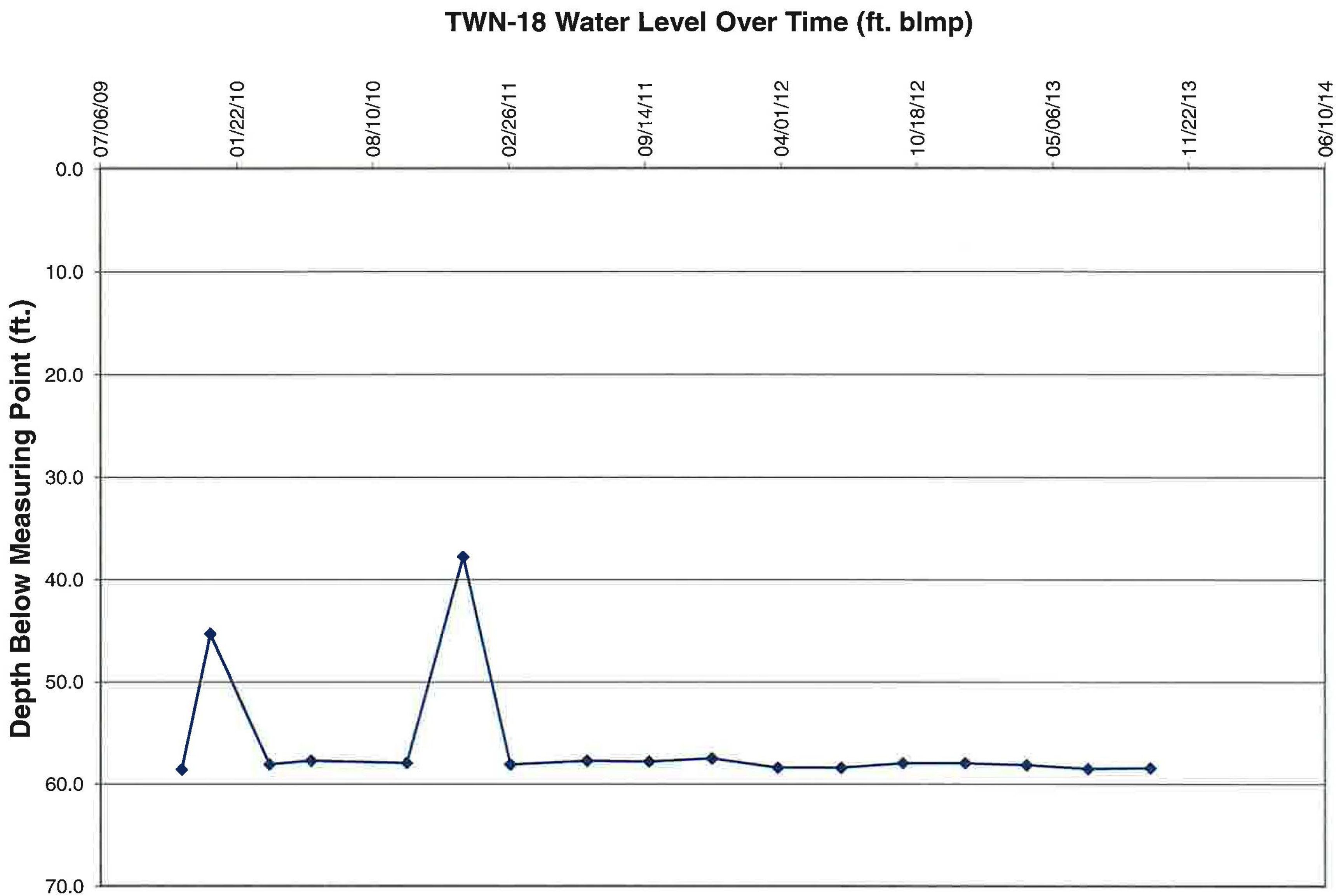
TWN-15 Water Level Over Time (ft. blmp)

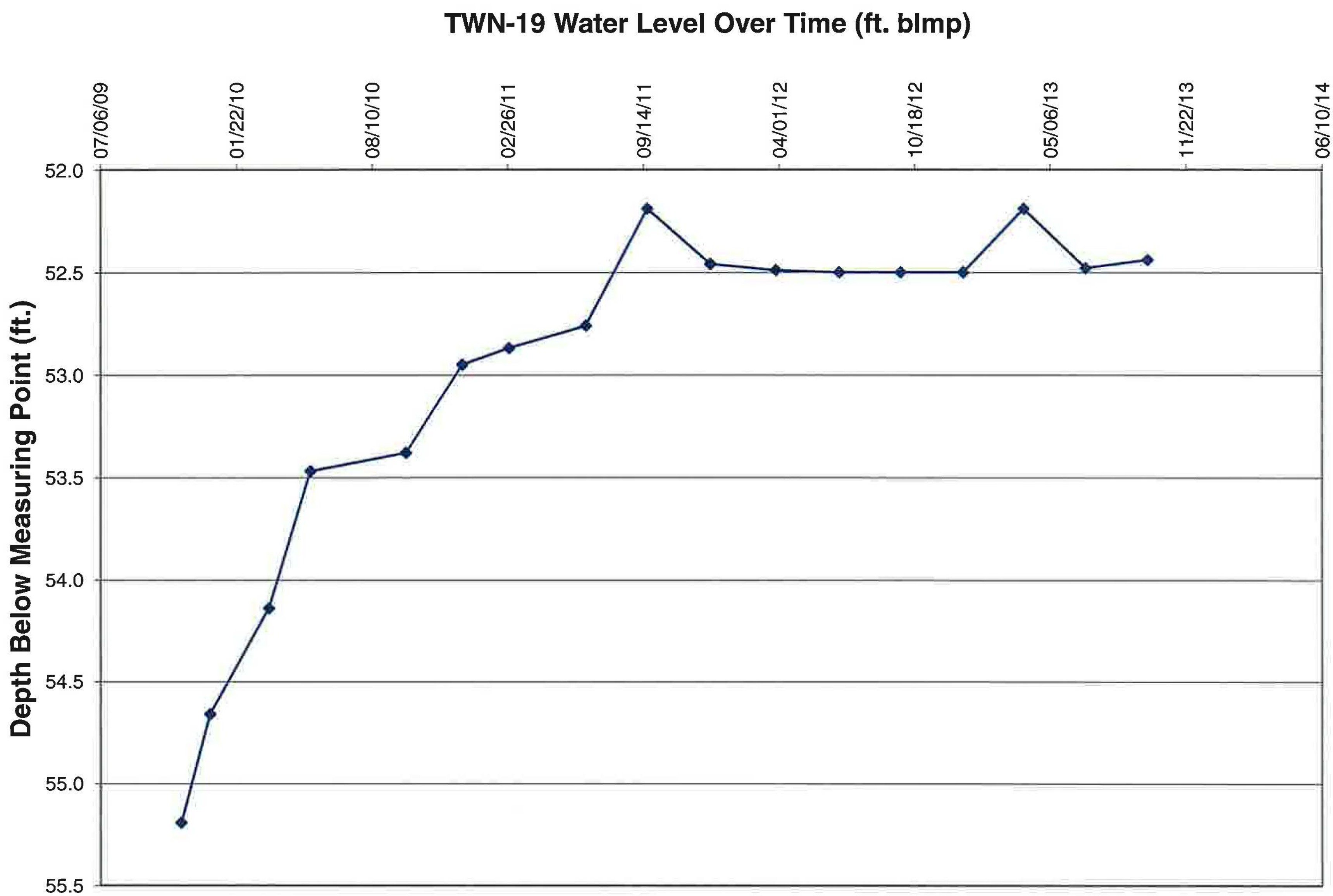



TWN-16 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
47.0
47.5
48.0
48.5
49.0
49.5
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

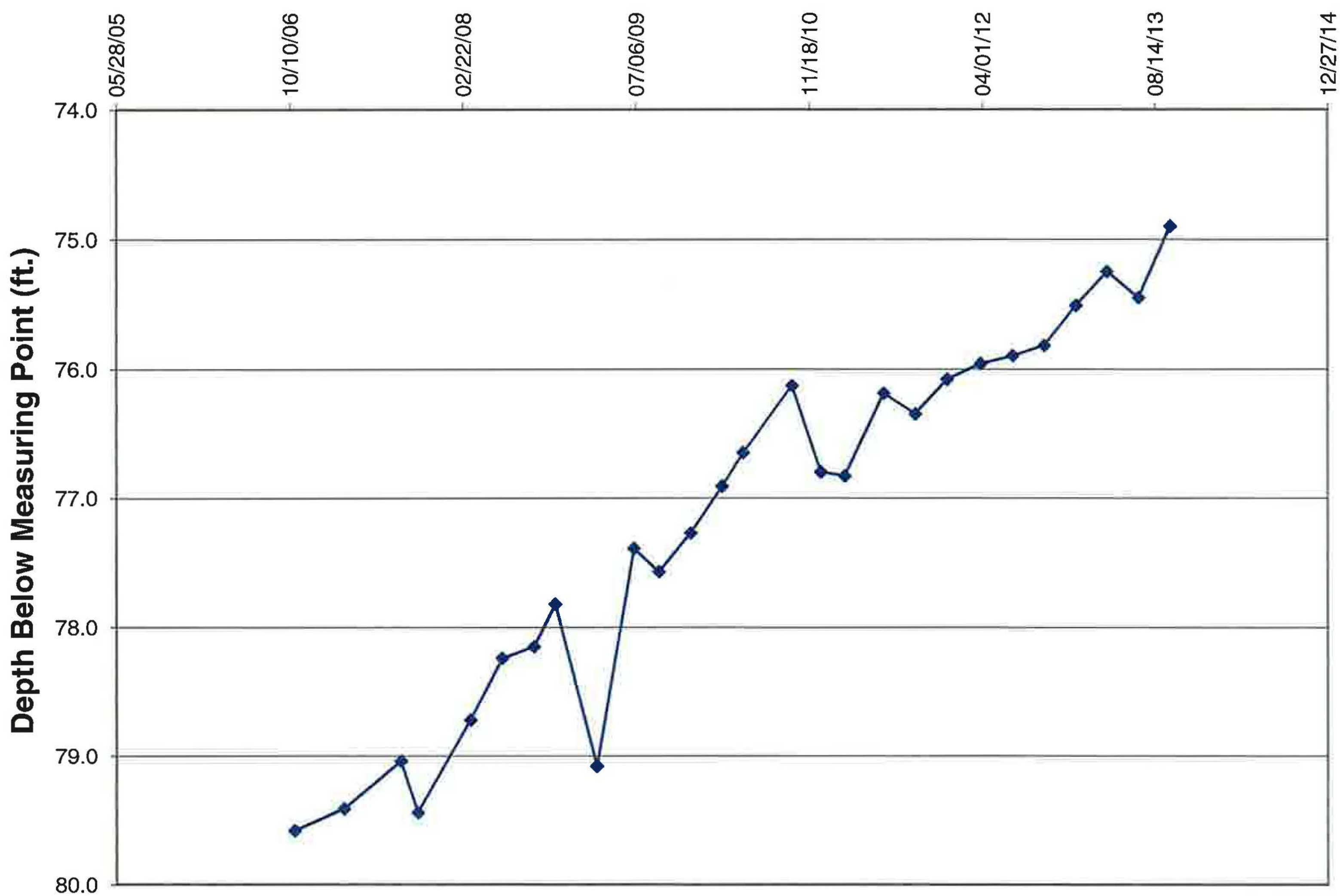
TWN-17 Water Level Over Time (ft. blmp)



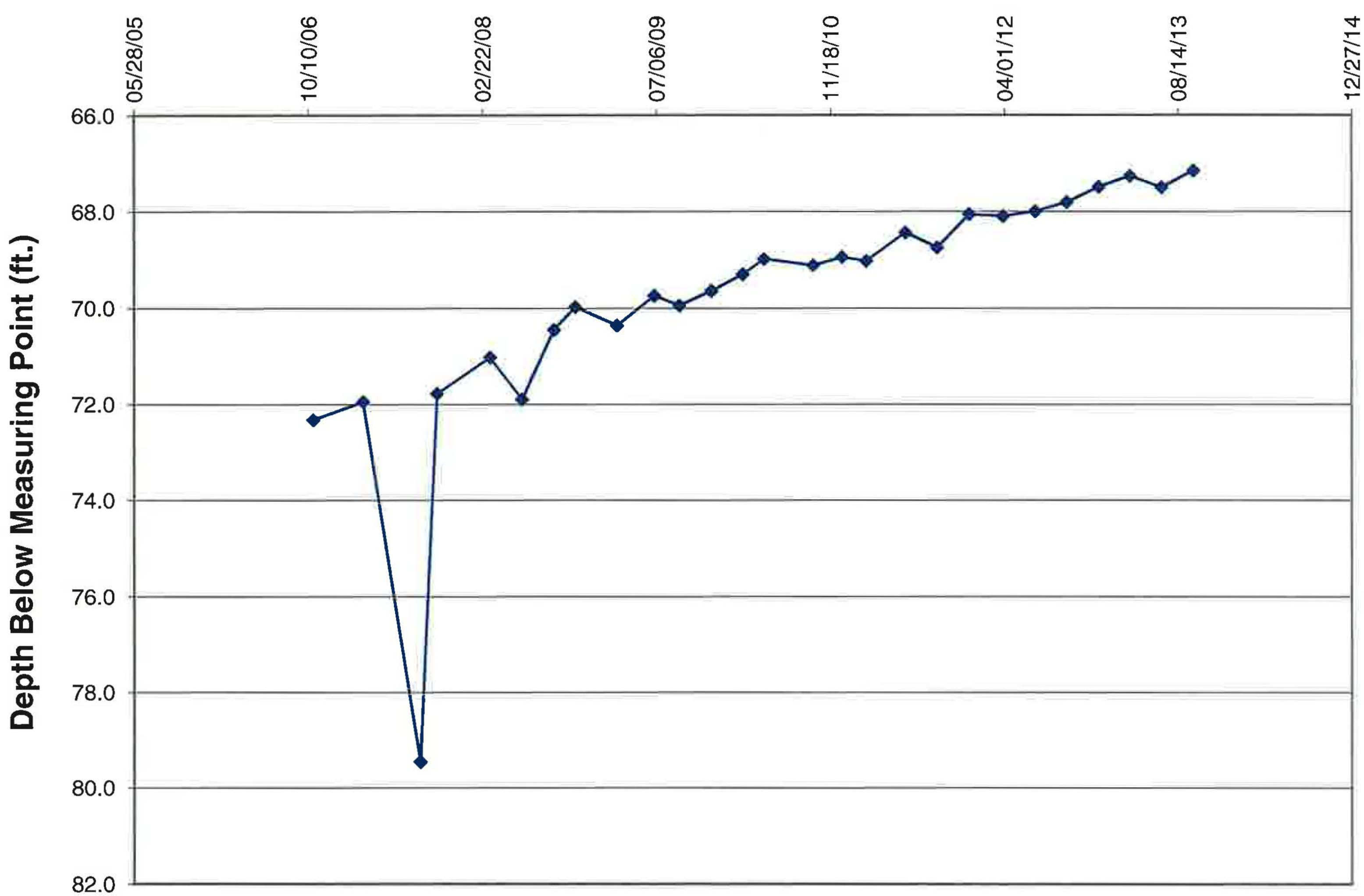

TWN-18 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14


TWN-19 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
52.0
52.5
53.0
53.5
54.0
54.5
55.0
55.5
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14

MW-30 Water Level Over Time (ft. blmp)



MW-31 Water Level Over Time (ft. blmp)



Tab F

Depths to Groundwater and Elevations Over Time for Nitrate Monitoring Wells

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,646.96	5,648.09	1.13				112.5
5,600.38				02/06/09	47.71	46.58	
5,599.99				07/21/09	48.10	46.97	
5,600.26				09/21/09	47.83	46.70	
5,601.10				10/28/09	46.99	45.86	
5,602.59				12/14/09	45.50	44.37	
5,600.55				03/11/10	47.54	46.41	
5,600.66				05/11/10	47.43	46.30	
5,599.18				09/29/10	48.91	47.78	
5,598.92				12/21/10	49.17	48.04	
5,598.29				02/28/11	49.80	48.67	
5,597.80				06/21/11	50.29	49.16	
5,597.32				09/20/11	50.77	49.64	
5,597.15				12/21/11	50.94	49.81	
5,596.54				03/27/12	51.55	50.42	
5,596.52				06/28/12	51.57	50.44	
5,595.03				09/27/12	53.06	51.93	
5,596.62				12/28/12	51.47	50.34	
5,593.54				03/28/13	54.55	53.42	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.75	5,626.69	0.94				95
5,611.37				02/06/09	15.32	14.38	
5,610.63				07/21/09	16.06	15.12	
5,609.73				09/21/09	16.96	16.02	
5,607.08				11/02/09	19.61	18.67	
5,606.57				12/14/09	20.12	19.18	
5,612.45				03/11/10	14.24	13.30	
5,612.78				05/11/10	13.91	12.97	
5,611.37				09/29/10	15.32	14.38	
5,610.24				12/21/10	16.45	15.51	
5,610.64				02/28/11	16.05	15.11	
5,609.78				06/21/11	16.91	15.97	
5609.79				09/20/11	16.90	15.96	
5609.72				12/21/11	16.97	16.03	
5,605.69				03/27/12	21.00	20.06	
5,605.67				06/28/12	21.02	20.08	
5,603.03				09/27/12	23.66	22.72	
5,605.76				12/28/12	20.93	19.99	
5,598.28				03/28/13	28.41	27.47	
5,594.32				06/27/13	32.37	31.43	
5,594.38				09/27/13	32.31	31.37	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.64	5,634.50	0.86				110
5,603.77				02/06/09	30.73	29.87	
5,602.37				07/21/09	32.13	31.27	
5,602.34				09/21/09	32.16	31.30	
5,602.60				10/28/09	31.90	31.04	
5,603.12				12/14/09	31.38	30.52	
5,602.90				03/11/10	31.60	30.74	
5,603.23				05/11/10	31.27	30.41	
5,602.86				09/29/10	31.64	30.78	
5,603.35				12/21/10	31.15	30.29	
5,602.89				02/28/11	31.61	30.75	
5,602.75				06/21/11	31.75	30.89	
5,602.40				09/20/11	32.10	31.24	
5,602.40				12/21/11	32.10	31.24	
5,601.70				03/27/12	32.80	31.94	
5,601.67				06/28/12	32.83	31.97	
5,600.50				09/27/12	34.00	33.14	
5,601.74				12/28/12	32.76	31.90	
5,598.60				03/28/13	35.90	35.04	
5,597.18				06/27/13	37.32	36.46	
5,597.36				09/27/13	37.14	36.28	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,641.04	5,641.87	0.83				136
5,601.47				02/06/09	40.40	39.57	
5,604.26				07/21/09	37.61	36.78	
5,605.02				09/21/09	36.85	36.02	
5,605.87				10/28/09	36.00	35.17	
5,605.81				12/14/09	36.06	35.23	
5,605.31				03/11/10	36.56	35.73	
5,605.36				05/11/10	36.51	35.68	
5,604.59				09/29/10	37.28	36.45	
5,604.42				12/21/10	37.45	36.62	
5,603.69				02/28/11	38.18	37.35	
5,603.36				06/21/11	38.51	37.68	
5,602.82				09/20/11	39.05	38.22	
5,602.79				12/21/11	39.08	38.25	
5,600.82				03/27/12	41.05	40.22	
5,600.84				06/28/12	41.03	40.20	
5,598.47				09/27/12	43.40	42.57	
5,600.86				12/28/12	41.01	40.18	
5,595.57				03/28/13	46.30	45.47	
5,594.12				06/27/13	47.75	46.92	
5,593.33				09/27/13	48.54	47.71	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,653.70	5,655.18	1.48				155
5,584.43				08/25/09	70.75	69.27	
5,584.51				09/21/09	70.67	69.19	
5,584.54				11/10/09	70.64	69.16	
5,584.62				12/14/09	70.56	69.08	
5,584.97				03/11/10	70.21	68.73	
5,585.38				05/11/10	69.80	68.32	
5,585.35				09/29/10	69.83	68.35	
5,585.42				12/21/10	69.76	68.28	
5,585.08				02/28/11	70.10	68.62	
5,585.38				06/21/11	69.80	68.32	
5,585.51				09/20/11	69.67	68.19	
5,585.76				12/21/11	69.42	67.94	
5,585.61				03/27/12	69.57	68.09	
5,585.63				06/28/12	69.55	68.07	
5,585.63				09/27/12	69.55	68.07	
5,585.90				12/28/12	69.28	67.80	
5,585.68				03/28/13	69.50	68.02	
5,585.57				06/27/13	69.61	68.13	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,663.03	5,664.94	1.91				135
5,589.52				08/25/09	75.42	73.51	
5,589.46				09/22/09	75.48	73.57	
5,589.61				11/03/09	75.33	73.42	
5,589.92				12/14/09	75.02	73.11	
5,590.24				03/11/10	74.70	72.79	
5,590.40				05/11/10	74.54	72.63	
5,590.24				09/29/10	74.70	72.79	
5,590.49				12/21/10	74.45	72.54	
5,590.16				02/28/11	74.78	72.87	
5,590.44				06/21/11	74.50	72.59	
5,590.35				09/20/11	74.59	72.68	
5,590.67				12/21/11	74.27	72.36	
5,590.34				03/27/12	74.60	72.69	
5,590.32				06/28/12	74.62	72.71	
5,589.77				09/27/12	75.17	73.26	
5,589.67				12/28/12	75.27	73.36	
5,589.45				03/28/13	75.49	73.58	
5,589.01				06/27/13	75.93	74.02	
5,588.99				09/27/13	75.95	74.04	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.39	5,649.26	1.87				120
5,552.56				08/25/09	96.70	94.83	
5,558.34				09/21/09	90.92	89.05	
5,558.82				11/10/09	90.44	88.57	
5,558.96				12/14/09	90.30	88.43	
5,559.54				03/11/10	89.72	87.85	
5,559.60				05/11/10	89.66	87.79	
5,559.83				09/29/10	89.43	87.56	
5,559.00				12/21/10	90.26	88.39	
5,559.68				02/28/11	89.58	87.71	
5,560.43				06/21/11	88.83	86.96	
5,560.46				09/20/11	88.80	86.93	
5,560.78				12/21/11	88.48	86.61	
5,560.92				03/27/12	88.34	86.47	
5,560.87				06/28/12	88.39	86.52	
5,561.40				09/27/12	87.86	85.99	
5,561.50				12/28/12	87.76	85.89	
5,562.01				03/28/13	87.25	85.38	
5,562.21				06/27/13	87.05	85.18	
5,562.41				09/27/13	86.85	84.98	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,649.35	5,651.48	2.13				160
5,589.01				08/25/09	62.47	60.34	
5,589.10				09/21/09	62.38	60.25	
5,589.09				11/03/09	62.39	60.26	
5,603.38				12/14/09	48.10	45.97	
5,589.68				03/11/10	61.80	59.67	
5,589.95				05/11/10	61.53	59.40	
5,589.74				09/29/10	61.74	59.61	
5,589.97				12/21/10	61.51	59.38	
5,589.67				02/28/11	61.81	59.68	
5,589.96				06/21/11	61.52	59.39	
5,589.82				09/20/11	61.66	59.53	
5,590.18				12/21/11	61.30	59.17	
5,589.85				03/27/12	61.63	59.50	
5,589.84				06/28/12	61.64	59.51	
5,589.28				09/27/12	62.20	60.07	
5,589.18				12/28/12	62.30	60.17	
5,588.95				03/28/13	62.53	60.40	
5,588.47				06/27/13	63.01	60.88	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,645.68	5,647.45	1.77				102.5
5,582.05				08/25/09	65.40	63.63	
5,582.12				09/22/09	65.33	63.56	
5,582.27				11/10/09	65.18	63.41	
5,582.53				12/14/09	64.92	63.15	
5,582.92				03/11/10	64.53	62.76	
5,583.06				05/11/10	64.39	62.62	
5,583.25				09/29/10	64.20	62.43	
5,583.57				12/21/10	63.88	62.11	
5,583.54				02/28/11	63.91	62.14	
5,583.92				06/21/11	63.53	61.76	
5,584.04				09/20/11	63.41	61.64	
5,587.42				12/21/11	60.03	58.26	
5,584.56				03/27/12	62.89	61.12	
5,584.55				06/28/12	62.90	61.13	
5,584.85				09/27/12	62.6	60.83	
5,585.24				12/28/12	62.21	60.44	
5,585.35				03/28/13	62.10	60.33	
5,585.40				06/27/13	62.05	60.28	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,664.63	5,666.98	2.35				107.5
5,584.18				08/25/09	82.80	80.45	
5,584.40				09/22/09	82.58	80.23	
5,584.61				11/10/09	82.37	80.02	
5,584.90				12/14/09	82.08	79.73	
5,585.21				03/11/10	81.77	79.42	
5,585.42				05/11/10	81.56	79.21	
5,585.42				09/29/10	81.56	79.21	
5,585.68				12/21/10	81.30	78.95	
5,585.60				02/28/11	81.38	79.03	
5,585.95				06/21/11	81.03	78.68	
5,585.92				09/20/11	81.06	78.71	
5,586.22				12/21/11	80.76	78.41	
5,586.16				03/27/12	80.82	78.47	
5,586.16				06/28/12	80.82	78.47	
5,586.13				09/27/12	80.85	78.50	
5,586.28				12/28/12	80.70	78.35	
5,586.28				03/28/13	80.70	78.35	
5,586.11				06/27/13	80.87	78.52	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,683.16	5,684.53	1.37				147.5
5,613.00				11/03/09	71.53	70.16	
5,613.88				12/14/09	70.65	69.28	
5,614.65				03/11/10	69.88	68.51	
5,615.16				05/11/10	69.37	68.00	
5,614.93				09/29/10	69.60	68.23	
5,615.09				12/21/10	69.44	68.07	
5,614.96				02/28/11	69.57	68.20	
5,615.12				06/21/11	69.41	68.04	
5,614.96				09/20/11	69.57	68.20	
5,615.18				12/21/11	69.35	67.98	
5,615.11				03/27/12	69.42	68.05	
5,615.12				06/28/12	69.41	68.04	
5,615.03				09/27/12	69.50	68.13	
5,615.28				12/28/12	69.25	67.88	
5,615.40				03/28/13	69.13	67.76	
5,615.20				06/27/13	69.33	67.96	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,667.03	5,668.24	1.21				115
5,628.33				11/03/09	39.91	38.70	
5,628.86				12/14/09	39.38	38.17	
5,630.27				03/11/10	37.97	36.76	
5,631.64				05/11/10	36.60	35.39	
5,633.73				09/29/10	34.51	33.30	
5,633.43				12/21/10	34.81	33.60	
5,634.35				02/28/11	33.89	32.68	
5,635.95				06/21/11	32.29	31.08	
5,636.44				09/20/11	31.80	30.59	
5,638.93				12/21/11	29.31	28.10	
5,639.69				03/27/12	28.55	27.34	
5,639.74				06/28/12	28.50	27.29	
5,640.90				09/27/12	27.34	26.13	
5,640.52				12/28/12	27.72	26.51	
5,639.99				03/28/13	28.25	27.04	
5,639.54				06/27/13	28.70	27.49	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.04	5,634.32	1.28				120
5,586.95				11/03/09	47.37	46.09	
5,587.22				12/14/09	47.10	45.82	
5,587.45				03/11/10	46.87	45.59	
5,587.64				05/11/10	46.68	45.40	
5,587.37				09/29/10	46.95	45.67	
5,587.77				12/21/10	46.55	45.27	
5,587.64				02/28/11	46.68	45.40	
5,587.89				06/21/11	46.43	45.15	
5,588.03				09/20/11	46.29	45.01	
5,588.30				12/21/11	46.02	44.74	
5,588.32				03/27/12	46.00	44.72	
5,588.30				06/28/12	46.02	44.74	
5,588.51				09/27/12	45.81	44.53	
5,588.71				12/28/12	45.61	44.33	
5,588.87				03/28/13	45.45	44.17	
5,588.79				06/27/13	45.53	44.25	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.80	5,649.53	1.73				135
5,586.18				11/04/09	63.35	61.62	
5,586.51				12/14/09	63.02	61.29	
5,586.71				03/11/10	62.82	61.09	
5,586.72				05/11/10	62.81	61.08	
5,586.53				09/29/10	63.00	61.27	
5,586.80				12/21/10	62.73	61.00	
5,586.74				02/28/11	62.79	61.06	
5,586.84				06/21/11	62.69	60.96	
5,586.73				09/20/11	62.80	61.07	
5,586.98				12/21/11	62.55	60.82	
5,587.07				03/27/12	62.46	60.73	
5,587.10				06/28/12	62.43	60.70	
5,587.07				09/27/12	62.46	60.73	
5,587.33				12/28/12	62.20	60.47	
5,587.43				03/28/13	62.10	60.37	
5,587.43				06/27/13	62.10	60.37	
5,587.72				09/27/13	61.81	60.08	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,675.01	5,676.49	1.48				155
5,594.12				11/10/09	82.37	80.89	
5,584.03				12/14/09	92.46	90.98	
5,584.10				03/11/10	92.39	90.91	
5,584.16				05/11/10	92.33	90.85	
5,584.26				09/29/10	92.23	90.75	
5,584.30				12/21/10	92.19	90.71	
5,584.04				02/28/11	92.45	90.97	
5,584.30				06/21/11	92.19	90.71	
5,584.37				09/20/11	92.12	90.64	
5,584.49				12/21/11	92.00	90.52	
5,584.47				03/27/12	92.02	90.54	
5,584.49				06/28/12	92.00	90.52	
5,584.58				09/27/12	91.91	90.43	
5,584.75				12/28/12	91.74	90.26	
5,584.93				03/28/13	91.56	90.08	
5,584.83				06/27/13	91.66	90.18	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,651.07	5,652.70	1.63				100
5,603.34				11/04/09	49.36	47.73	
5,603.56				12/14/09	49.14	47.51	
5,603.84				03/11/10	48.86	47.23	
5,604.31				05/11/10	48.39	46.76	
5,604.28				09/29/10	48.42	46.79	
5,604.39				12/21/10	48.31	46.68	
5,604.20				02/28/11	48.50	46.87	
5,604.55				06/21/11	48.15	46.52	
5,604.74				09/20/11	47.96	46.33	
5,604.94				12/21/11	47.76	46.13	
5,604.84				03/27/12	47.86	46.23	
5,604.85				06/28/12	47.85	46.22	
5,604.99				09/27/12	47.71	46.08	
5,605.10				12/28/12	47.60	45.97	
5,605.22				03/28/13	47.48	45.85	
5,605.11				06/27/13	47.59	45.96	
5,605.39				09/27/13	47.31	45.68	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.73	5,641.55	1.82				100
5,605.96				11/04/09	35.59	33.77	
5,606.27				12/14/09	35.28	33.46	
5,606.25				03/11/10	35.30	33.48	
5,606.55				05/11/10	35.00	33.18	
5,606.77				09/29/10	34.78	32.96	
5,607.15				12/21/10	34.40	32.58	
5,606.96				02/28/11	34.59	32.77	
5,607.22				06/21/11	34.33	32.51	
5,607.40				09/20/11	34.15	32.33	
5,607.85				12/21/11	33.70	31.88	
5,607.67				03/27/12	33.88	32.06	
5,607.68				06/28/12	33.87	32.05	
5,607.76				09/27/12	33.79	31.97	
5,608.08				12/28/12	33.47	31.65	
5,607.91				03/28/13	33.64	31.82	
5,607.64				06/27/13	33.91	32.09	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,643.95	5,645.45	1.50				100
5,586.85				11/02/09	58.60	57.10	
5,600.14				12/14/09	45.31	43.81	
5,587.36				03/11/10	58.09	56.59	
5,587.71				05/11/10	57.74	56.24	
5,587.50				09/29/10	57.95	56.45	
5,607.66				12/21/10	37.79	36.29	
5,587.35				02/28/11	58.10	56.60	
5,587.71				06/21/11	57.74	56.24	
5,587.65				09/20/11	57.80	56.30	
5,587.95				12/21/11	57.50	56.00	
5,587.05				03/27/12	58.40	56.90	
5,587.05				06/28/12	58.40	56.90	
5,587.50				09/27/12	57.95	56.45	
5,587.50				12/28/12	57.95	56.45	
5,587.32				03/28/13	58.13	56.63	
5,586.95				06/27/13	58.50	57.00	
5,587.02				09/27/13	58.43	56.93	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,659.59	5,661.36	1.77				110
5,606.17				11/02/09	55.19	53.42	
5,606.70				12/14/09	54.66	52.89	
5,607.22				03/11/10	54.14	52.37	
5,607.89				05/11/10	53.47	51.70	
5,607.98				09/29/10	53.38	51.61	
5,608.41				12/21/10	52.95	51.18	
5,608.49				02/28/11	52.87	51.10	
5,608.60				06/21/11	52.76	50.99	
5,609.17				09/20/11	52.19	50.42	
5,608.90				12/21/11	52.46	50.69	
5,608.87				03/27/12	52.49	50.72	
5,608.86				06/28/12	52.50	50.73	
5,608.86				09/27/12	52.50	50.73	
5,608.86				12/28/12	52.50	50.73	
5,609.17				03/28/13	52.19	50.42	
5,608.88				06/27/13	52.48	50.71	
5,608.92				09/27/13	52.44	50.67	

Water Levels and Data over Time
White Mesa Mill - Well MW-30

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.34	5,614.50	1.16				110
5,534.92				10/24/2006	79.58	78.42	
5,535.09				3/16/2007	79.41	78.25	
5,535.46				8/27/2007	79.04	77.88	
5,535.06				10/15/2007	79.44	78.28	
5,535.78				3/15/2008	78.72	77.56	
5,536.26				6/15/2008	78.24	77.08	
5,536.35				9/15/2008	78.15	76.99	
5,536.68				11/15/2008	77.82	76.66	
5,535.42				3/15/2009	79.08	77.92	
5,537.11				6/30/2009	77.39	76.23	
5,536.93				9/10/2009	77.57	76.41	
5,537.23				12/11/2009	77.27	76.11	
5,537.59				3/11/2010	76.91	75.75	
5,537.85				5/11/2010	76.65	75.49	
5,538.37				9/29/2010	76.13	74.97	
5537.70				12/21/2010	76.8	75.64	
5537.67				2/28/2011	76.83	75.67	
5538.31				6/21/2011	76.19	75.03	
5538.15				9/20/2011	76.35	75.19	
5538.42				12/21/2011	76.08	74.92	
5538.54				3/27/2012	75.96	74.8	
5538.60				6/28/2012	75.9	74.74	
5538.68				9/27/2012	75.82	74.66	
5538.99				12/28/2012	75.51	74.35	
5539.25				3/28/2013	75.25	74.09	
5539.05				6/27/2013	75.45	74.29	
5539.60				9/27/2013	74.90	73.74	

Water Levels and Data over Time
White Mesa Mill - Well MW-31

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,615.26	5,616.40	1.14				130
5,544.07				10/24/2006	72.33	71.19	
5,544.45				3/16/2007	71.95	70.81	
5,536.94				8/27/2007	79.46	78.32	
5,544.62				10/15/2007	71.78	70.64	
5,545.37				3/15/2008	71.03	69.89	
5,544.50				6/15/2008	71.90	70.76	
5,545.94				9/15/2008	70.46	69.32	
5,546.42				11/15/2008	69.98	68.84	
5,546.03				3/15/2009	70.37	69.23	
5,546.65				6/30/2009	69.75	68.61	
5,546.45				9/10/2009	69.95	68.81	
5,546.75				12/11/2009	69.65	68.51	
5,547.09				3/11/2010	69.31	68.17	
5,547.41				5/11/2010	68.99	67.85	
5,547.28				9/29/2010	69.12	67.98	
5547.45				12/21/2010	68.95	67.81	
5547.37				2/28/2011	69.03	67.89	
5547.96				6/21/2011	68.44	67.3	
5547.65				9/20/2011	68.75	67.61	
5548.34				12/21/2011	68.06	66.92	
5548.30				3/27/2012	68.10	66.96	
5548.40				6/28/2012	68.00	66.86	
5548.59				9/27/2012	67.81	66.67	
5548.91				12/28/2012	67.49	66.35	
5549.14				3/28/2013	67.26	66.12	
5548.90				6/27/2013	67.50	66.36	
5549.25				9/27/2013	67.15	66.01	

Tab G

Laboratory Analytical Reports

INORGANIC ANALYTICAL REPORT

American West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-009
Client Sample ID: PIEZ-01_08282013
Collection Date: 8/28/2013 0730h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/10/2013 1320h	E300.0	10.0	**55.1**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1817h	E353.2	1.00	**7.83**	

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-010
Client Sample ID: PIEZ-02_08282013
Collection Date: 8/28/2013 0655h
Received Date: 8/30/2013 0945h

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Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/10/2013 1435h	E300.0	5.00	**9.66**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1818h	E353.2	0.100	**0.198**	

INORGANIC ANALYTICAL REPORT

American West
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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-011
Client Sample ID: PIEZ-03_08282013
Collection Date: 8/28/2013 0709h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/10/2013 1501h	E300.0	5.00	**22.4**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1819h	E353.2	0.100	**1.81**	

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INORGANIC ANALYTICAL REPORT

American West
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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-002
Client Sample ID: TWN-01_08272013
Collection Date: 8/27/2013 1019h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2115h	E300.0	5.00	**24.1**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1803h	E353.2	0.100	**1.24**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-001
Client Sample ID: TWN-01R_08272013
Collection Date: 8/27/2013 0920h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2005h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1801h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-007
Client Sample ID: TWN-02_08272013
Collection Date: 8/27/2013 1440h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2312h	E300.0	10.0	**75.9**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1810h	E353.2	10.0	**80.0**	

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INORGANIC ANALYTICAL REPORT

American West
ANALYTICAL LABORATORIES

Client:	Energy Fuels Resources, Inc.	**Contact:**	Garrin Palmer
Project:	3rd Quarter Nitrate 2013		
Lab Sample ID:	1308556-006		
Client Sample ID:	TWN-03_08282013		
Collection Date:	8/28/2013 0643h		
Received Date:	8/30/2013 0945h		

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2248h	E300.0	50.0	**171**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1808h	E353.2	10.0	**20.9**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-004
Client Sample ID: TWN-04_08272013
Collection Date: 8/27/2013 1207h
Received Date: 8/30/2013 0945h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2202h	E300.0	5.00	**27.2**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1806h	E353.2	0.100	**1.58**	

INORGANIC ANALYTICAL REPORT

American West
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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-003
Client Sample ID: TWN-07_08282013
Collection Date: 8/28/2013 0632h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2139h	E300.0	1.00	**6.96**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1804h	E353.2	0.100	**0.835**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-005
Client Sample ID: TWN-18_08272013
Collection Date: 8/27/2013 1250h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2225h	E300.0	10.0	**70.4**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1807h	E353.2	1.00	**2.04**	1

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Sample ID: 1309103-007
Client Sample ID: TW4-22_09032013
Collection Date: 9/3/2013 1305h
Received Date: 9/6/2013 1145h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2013 1651h	E300.0	100	**487**	
Nitrate/Nitrite (as N)	mg/L		9/12/2013 1933h	E353.2	10.0	**29.7**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Sample ID: 1309103-002
Client Sample ID: TW4-24_09032013
Collection Date: 9/3/2013 1255h
Received Date: 9/6/2013 1145h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2013 1329h	E300.0	100	**998**	
Nitrate/Nitrite (as N)	mg/L		9/12/2013 1855h	E353.2	10.0	**32.6**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Sample ID: 1309103-001
Client Sample ID: TW4-25_09032013
Collection Date: 9/3/2013 1240h
Received Date: 9/6/2013 1145h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2013 1213h	E300.0	50.0	**119**	
Nitrate/Nitrite (as N)	mg/L		9/12/2013 1853h	E353.2	1.00	**5.69**	

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-012
Client Sample ID: TWN-60_08272013
Collection Date: 8/27/2013 1515h
Received Date: 8/30/2013 0945h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/5/2013 1134h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1821h	E353.2	0.100	< 0.100	

INORGANIC ANALYTICAL REPORT

American West
ANALYTICAL LABORATORIES

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Sample ID: 1309255-008
Client Sample ID: TW4-60_ 09122013
Collection Date: 9/12/2013 0845h
Received Date: 9/13/2013 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/18/2013 2218h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/17/2013 2108h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

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Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Sample ID: 1308556-008
Client Sample ID: TWN-65_08272013
Collection Date: 8/27/2013 1207h
Received Date: 8/30/2013 0945h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/4/2013 2335h	E300.0	5.00	**29.0**	
Nitrate/Nitrite (as N)	mg/L		9/6/2013 1825h	E353.2	0.100	**1.57**	

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Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 3rd Quarter Nitrate 2013

Dear Garrin Palmer: Lab Set ID: 1308556

American West Analytical Laboratories received 12 sample(s) on 8/30/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.09.18 12:00:43 -06'00'

Approved by:

Laboratory Director or designee

SAMPLE SUMMARY

American West ANALYTICAL LABORATORIES

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Nitrate 2013
Lab Set ID: 1308556
Date Received: 8/30/2013 0945h

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Jose Rocha
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Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1308556-001A	TWN-01R_08272013	8/27/2013 0920h	Aqueous	Anions, E300.0
1308556-001B	TWN-01R_08272013	8/27/2013 0920h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-002A	TWN-01_08272013	8/27/2013 1019h	Aqueous	Anions, E300.0
1308556-002B	TWN-01_08272013	8/27/2013 1019h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-003A	TWN-07_08282013	8/28/2013 0632h	Aqueous	Anions, E300.0
1308556-003B	TWN-07_08282013	8/28/2013 0632h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-004A	TWN-04_08272013	8/27/2013 1207h	Aqueous	Anions, E300.0
1308556-004B	TWN-04_08272013	8/27/2013 1207h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-005A	TWN-18_08272013	8/27/2013 1250h	Aqueous	Anions, E300.0
1308556-005B	TWN-18_08272013	8/27/2013 1250h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-006A	TWN-03_08282013	8/28/2013 0643h	Aqueous	Anions, E300.0
1308556-006B	TWN-03_08282013	8/28/2013 0643h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-007A	TWN-02_08272013	8/27/2013 1440h	Aqueous	Anions, E300.0
1308556-007B	TWN-02_08272013	8/27/2013 1440h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-008A	TWN-65_08272013	8/27/2013 1207h	Aqueous	Anions, E300.0
1308556-008B	TWN-65_08272013	8/27/2013 1207h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-009A	PIEZ-01_08282013	8/28/2013 0730h	Aqueous	Anions, E300.0
1308556-009B	PIEZ-01_08282013	8/28/2013 0730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-010A	PIEZ-02_08282013	8/28/2013 0655h	Aqueous	Anions, E300.0
1308556-010B	PIEZ-02_08282013	8/28/2013 0655h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-011A	PIEZ-03_08282013	8/28/2013 0709h	Aqueous	Anions, E300.0
1308556-011B	PIEZ-03_08282013	8/28/2013 0709h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308556-012A	TWN-60_08272013	8/27/2013 1515h	Aqueous	Anions, E300.0
1308556-012B	TWN-60_08272013	8/27/2013 1515h	Aqueous	Nitrite/Nitrate (as N), E353.2

Inorganic Case Narrative

American West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	3rd Quarter Nitrate 2013
Lab Set ID:	1308556

Sample Receipt Information:

Date of Receipt:	8/30/2013
Date(s) of Collection:	8/27 & 8/28/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: The MS and MSD percent recoveries on nitrate/nitrite were outside of control limits for sample 1308556-005B due to matrix interference.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308556
Project: 3rd Quarter Nitrate 2013

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R58729	Date Analyzed: 09/04/2013 1243h												
Test Code: 300.0-W													
Chloride	4.82	mg/L	E300.0	0.0114	1.00	5.000	0	96.4	90 - 110				
Lab Sample ID: LCS-R58828	Date Analyzed: 09/05/2013 1110h												
Test Code: 300.0-W													
Chloride	4.84	mg/L	E300.0	0.0114	0.100	5.000	0	96.8	90 - 110				
Lab Sample ID: LCS-R58961	Date Analyzed: 09/10/2013 1254h												
Test Code: 300.0-W													
Chloride	4.90	mg/L	E300.0	0.0114	0.100	5.000	0	97.9	90 - 110				
Lab Sample ID: LCS-R58824	Date Analyzed: 09/06/2013 1800h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00252	0.100	1.000	0	101	90 - 110				

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Jose Rocha
QA Officer

American West ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308556
Project: 3rd Quarter Nitrate 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R58729 Date Analyzed: 09/04/2013 1220h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Lab Sample ID: MB-R58828 Date Analyzed: 09/05/2013 1047h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R58961 Date Analyzed: 09/10/2013 1229h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R58824 Date Analyzed: 09/06/2013 1759h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West
ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308556
Project: 3rd Quarter Nitrate 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1308556-001AMS	Date Analyzed:	09/04/2013 2029h											
Test Code: 300.0-W													
Chloride	5.00	mg/L	E300.0	0.0114	1.00	5.000	0	100	90 - 110				
Lab Sample ID: 1308556-012AMS	Date Analyzed:	09/05/2013 1157h											
Test Code: 300.0-W													
Chloride	4.83	mg/L	E300.0	0.0114	0.100	5.000	0	96.7	90 - 110				
Lab Sample ID: 1308556-009AMS	Date Analyzed:	09/10/2013 1345h											
Test Code: 300.0-W													
Chloride	555	mg/L	E300.0	1.14	10.0	500.0	55.1	99.9	90 - 110				
Lab Sample ID: 1308556-005BMS	Date Analyzed:	09/06/2013 1822h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.3	mg/L	E353.2	0.0252	1.00	10.00	2.04	133	90 - 110				1

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West
ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308556
Project: 3rd Quarter Nitrate 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1308556-001AMSD Date Analyzed: 09/04/2013 2052h													
Test Code: 300.0-W													
Chloride	5.02	mg/L	E300.0	0.0114	1.00	5.000	0	100	90 - 110	5	0.479	20	
Lab Sample ID: 1308556-012AMSD Date Analyzed: 09/05/2013 1220h													
Test Code: 300.0-W													
Chloride	4.72	mg/L	E300.0	0.0114	0.100	5.000	0	94.4	90 - 110	4.83	2.39	20	
Lab Sample ID: 1308556-009AMSD Date Analyzed: 09/10/2013 1410h													
Test Code: 300.0-W													
Chloride	547	mg/L	E300.0	1.14	10.0	500.0	55.1	98.3	90 - 110	555	1.43	20	
Lab Sample ID: 1308556-005BMSD Date Analyzed: 09/06/2013 1823h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.3	mg/L	E353.2	0.0252	1.00	10.00	2.04	122	90 - 110	15.3	7.27	10	1

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

American West Analytical Laboratories

UL

WORK ORDER Summary

Work Order: **1308556**

Client: Energy Fuels Resources, Inc.   Due Date: 9/11/2013

Client ID: DEN100   **Contact:** Garrin Palmer

Project: **3rd Quarter Nitrate 2013**   **QC Level:** III   WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). MUST report project specific DL's: Cl @ 1 mg/L, NO2/NO3 @ 0.1 mg/L. EDD-Denison & LOCUS. Email Group;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1308556-001A	**TWN-01R_08272013**	8/27/2013 0920h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-002A	**TWN-01_08272013**	8/27/2013 1019h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-003A	**TWN-07_08282013**	8/28/2013 0632h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-004A	**TWN-04_08272013**	8/27/2013 1207h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-005A	**TWN-18_08272013**	8/27/2013 1250h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-006A	**TWN-03_08282013**	8/28/2013 0643h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-007A	**TWN-02_08272013**	8/27/2013 1440h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-008A	**TWN-65_08272013**	8/27/2013 1207h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK DB HOK AQ HOK ____ COC Emailed 8/30/13

WORK ORDER Summary

Work Order: **1308556**

Client: Energy Fuels Resources, Inc.

Due Date: 9/11/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1308556-009A	**PIEZ-01_08282013**	8/28/2013 0730h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-010A	**PIEZ-02_08282013**	8/28/2013 0655h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-011A	**PIEZ-03_08282013**	8/28/2013 0709h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1308556-012A	**TWN-60_08272013**	8/27/2013 1515h	8/30/2013 0945h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1308556-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

Amercian West Analytical Laboratories

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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1308556
AWAL Lab Sample Set #
Page ____ of ____

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 3rd Quarter Nitrate 2013
Project #:
PO #:
Sampler Name: Tanner Holliday, Garrin Palmer

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ Non-Compliance
☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	Known Hazards & Sample Comments
1	TWN-01R_08272013	8/27/2013	920	2	W	X	X	
2	TWN-01_08272013	8/27/2013	1019	2	W	X	X	
3	TWN-07_08282013	8/28/2013	632	2	W	X	X	
4	TWN-04_08272013	8/27/2013	1207	2	W	X	X	
5	TWN-18_08272013	8/27/2013	1250	2	W	X	X	
6	TWN-03_08282013	8/28/2013	643	2	W	X	X	
7	TWN-02_08272013	8/27/2013	1440	2	W	X	X	
8	TWN-65_08272013	8/27/2013	1207	2	W	X	X	
9	PIEZ-01_08282013	8/28/2013	730	2	W	X	X	
#	PIEZ-02_08282013	8/28/2013	655	2	W	X	X	
11	PIEZ-03_08282013	8/28/2013	709	2	W	X	X	
12	TWN-60_08272013	8/27/2013	1515	2	W	X	X	
13	Temp Blank	8/29/13						

Laboratory Use Only

Samples Were: Fed-X
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 0.8 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by:	Date/Time	Received by:	Date/Time
Signature: Tanner Holliday Print Name: Tanner Holliday	Date: 8/29/13 Time: 1100	Signature: Print Name:	Date: Time:
Signature: Print Name:	Date: Time:	Signature: Print Name:	Date: Time:
Signature: Print Name:	Date: Time:	Signature: Elma Haystead Print Name: Elma Haystead	Date: 945 Time: 8/30/13
Signature: Print Name:	Date: Time:	Signature: Print Name:	Date: Time:

Special Instructions:

Lab Set ID: 1308556

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12						
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes						
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved

▲ The Sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference

American West
ANALYTICAL LABORATORIES

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 3rd Quarter Chloroform 2013

Dear Garrin Palmer: Lab Set ID: 1309103

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Salt Lake City, UT 84115

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received 21 sample(s) on 9/6/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.09.18 14:00:04 -06'00'

Approved by:

Laboratory Director or designee

SAMPLE SUMMARY

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ANALYTICAL LABORATORIES

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Set ID: 1309103
Date Received: 9/6/2013 1145h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1309103-001A	TW4-25_09032013	9/3/2013	1240h	Aqueous	Anions, E300.0
1309103-001B	TW4-25_09032013	9/3/2013	1240h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-001C	TW4-25_09032013	9/3/2013	1240h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-002A	TW4-24_09032013	9/3/2013	1255h	Aqueous	Anions, E300.0
1309103-002B	TW4-24_09032013	9/3/2013	1255h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-002C	TW4-24_09032013	9/3/2013	1255h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-003A	TW4-04_09032013	9/3/2013	1347h	Aqueous	Anions, E300.0
1309103-003B	TW4-04_09032013	9/3/2013	1347h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-003C	TW4-04_09032013	9/3/2013	1347h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-004A	MW-04_09032013	9/3/2013	1335h	Aqueous	Anions, E300.0
1309103-004B	MW-04_09032013	9/3/2013	1335h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-004C	MW-04_09032013	9/3/2013	1335h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-005A	TW4-19_09032013	9/3/2013	1030h	Aqueous	Anions, E300.0
1309103-005B	TW4-19_09032013	9/3/2013	1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-005C	TW4-19_09032013	9/3/2013	1030h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-006A	MW-26_09032013	9/3/2013	1325h	Aqueous	Anions, E300.0
1309103-006B	MW-26_09032013	9/3/2013	1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-006C	MW-26_09032013	9/3/2013	1325h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-007A	TW4-22_09032013	9/3/2013	1305h	Aqueous	Anions, E300.0
1309103-007B	TW4-22_09032013	9/3/2013	1305h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-007C	TW4-22_09032013	9/3/2013	1305h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-008A	TW4-20_09032013	9/3/2013	1315h	Aqueous	Anions, E300.0
1309103-008B	TW4-20_09032013	9/3/2013	1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-008C	TW4-20_09032013	9/3/2013	1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-009A	MW-32_09042013	9/4/2013	1240h	Aqueous	Anions, E300.0
1309103-009B	MW-32_09042013	9/4/2013	1240h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-009C	MW-32_09042013	9/4/2013	1240h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-010A	TW4-05R_09042013	9/4/2013	1407h	Aqueous	Anions, E300.0
1309103-010B	TW4-05R_09042013	9/4/2013	1407h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Set ID: 1309103
Date Received: 9/6/2013 1145h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1309103-010C	TW4-05R_09042013	9/4/2013	1407h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-011A	TW4-70_09052013	9/5/2013	0710h	Aqueous	Anions, E300.0
1309103-011B	TW4-70_09052013	9/5/2013	0710h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-011C	TW4-70_09052013	9/5/2013	0710h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-012A	TW4-31_09052013	9/5/2013	0655h	Aqueous	Anions, E300.0
1309103-012B	TW4-31_09052013	9/5/2013	0655h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-012C	TW4-31_09052013	9/5/2013	0655h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-013A	TW4-23_09052013	9/5/2013	0704h	Aqueous	Anions, E300.0
1309103-013B	TW4-23_09052013	9/5/2013	0704h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-013C	TW4-23_09052013	9/5/2013	0704h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-014A	TW4-08_09052013	9/5/2013	0710h	Aqueous	Anions, E300.0
1309103-014B	TW4-08_09052013	9/5/2013	0710h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-014C	TW4-08_09052013	9/5/2013	0710h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-015A	TW4-09_09052013	9/5/2013	0723h	Aqueous	Anions, E300.0
1309103-015B	TW4-09_09052013	9/5/2013	0723h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-015C	TW4-09_09052013	9/5/2013	0723h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-016A	TW4-16_09052013	9/5/2013	0729h	Aqueous	Anions, E300.0
1309103-016B	TW4-16_09052013	9/5/2013	0729h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-016C	TW4-16_09052013	9/5/2013	0729h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-017A	TW4-26_09052013	9/5/2013	0748h	Aqueous	Anions, E300.0
1309103-017B	TW4-26_09052013	9/5/2013	0748h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-017C	TW4-26_09052013	9/5/2013	0748h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-018A	TW4-06_09052013	9/5/2013	0757h	Aqueous	Anions, E300.0
1309103-018B	TW4-06_09052013	9/5/2013	0757h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-018C	TW4-06_09052013	9/5/2013	0757h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-019A	TW4-05_09052013	9/5/2013	0805h	Aqueous	Anions, E300.0
1309103-019B	TW4-05_09052013	9/5/2013	0805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309103-019C	TW4-05_09052013	9/5/2013	0805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-020A	TW4-18_09052013	9/5/2013	0815h	Aqueous	Anions, E300.0
1309103-020B	TW4-18_09052013	9/5/2013	0815h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Set ID: 1309103
Date Received: 9/6/2013 1145h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1309103-020C	TW4-18_09052013	9/5/2013	0815h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309103-021A	Trip Blank	9/3/2013		Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	3rd Quarter Chloroform 2013
Lab Set ID:	1309103

Sample Receipt Information:

Date of Receipt:	9/6/2013
Date(s) of Collection:	9/3, 9/4, & 9/5/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Corrective Action: None required.

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R59066	Date Analyzed: 09/12/2013 1148h												
Test Code: 300.0-W													
Chloride	5.02	mg/L	E300.0	0.0114	1.00	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R59048	Date Analyzed: 09/12/2013 1852h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.969	mg/L	E353.2	0.00252	0.100	1.000	0	96.9	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: **MB-R59066**	Date Analyzed:	09/12/2013 1122h											
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Lab Sample ID: **MB-R59048**	Date Analyzed:	09/12/2013 1851h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309103-001AMS Date Analyzed: 09/12/2013 1238h													
Test Code: 300.0-W													
Chloride	2,540	mg/L	E300.0	5.70	500	2,500	119	96.9	90 - 110				
Lab Sample ID: 1309103-010AMS Date Analyzed: 09/12/2013 1834h													
Test Code: 300.0-W													
Chloride	4.96	mg/L	E300.0	0.0114	1.00	5.000	0.043	98.4	90 - 110				
Lab Sample ID: 1309103-001BMS Date Analyzed: 09/12/2013 1902h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.6	mg/L	E353.2	0.0252	1.00	10.00	5.69	110	90 - 110				
Lab Sample ID: 1309103-015BMS Date Analyzed: 09/12/2013 1936h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.8	mg/L	E353.2	0.0252	1.00	10.00	4.03	107	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309103-001AMSD Date Analyzed: 09/12/2013 1304h													
Test Code: 300.0-W													
Chloride	2,520	mg/L	E300.0	5.70	500	2,500	119	96.1	90 - 110	2540	0.778	20	
Lab Sample ID: 1309103-010AMSD Date Analyzed: 09/12/2013 1859h													
Test Code: 300.0-W													
Chloride	5.11	mg/L	E300.0	0.0114	1.00	5.000	0.043	101	90 - 110	4.96	2.98	20	
Lab Sample ID: 1309103-001BMSD Date Analyzed: 09/12/2013 1903h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.1	mg/L	E353.2	0.0252	1.00	10.00	5.69	104	90 - 110	16.6	3.49	10	
Lab Sample ID: 1309103-015BMSD Date Analyzed: 09/12/2013 1937h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.5	mg/L	E353.2	0.0252	1.00	10.00	4.03	105	90 - 110	14.8	1.57	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC 090913A Date Analyzed: 09/09/2013 0715h Test Code: 8260-W													
Chloroform	20.2	µg/L	SW8260C	0.277	2.00	20.00	0	101	67 - 132				
Methylene chloride	20.9	µg/L	SW8260C	0.155	2.00	20.00	0	105	32 - 185				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	47.6	µg/L	SW8260C			50.00		95.1	77 - 121				
Surr: Dibromofluoromethane	51.6	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				
Lab Sample ID: LCS VOC 090913B Date Analyzed: 09/09/2013 1611h Test Code: 8260-W													
Chloroform	19.1	µg/L	SW8260C	0.277	2.00	20.00	0	95.4	67 - 132				
Methylene chloride	20.4	µg/L	SW8260C	0.155	2.00	20.00	0	102	32 - 185				
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	45.6	µg/L	SW8260C			50.00		91.3	77 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				
Lab Sample ID: LCS VOC 091013A Date Analyzed: 09/10/2013 0740h Test Code: 8260-W													
Chloroform	20.8	µg/L	SW8260C	0.277	2.00	20.00	0	104	67 - 132				
Methylene chloride	23.0	µg/L	SW8260C	0.155	2.00	20.00	0	115	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.0	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	45.9	µg/L	SW8260C			50.00		91.8	77 - 121				
Surr: Dibromofluoromethane	52.0	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	47.0	µg/L	SW8260C			50.00		94.0	81 - 135				

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ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC 090913A	Date Analyzed: 09/09/2013 0754h												
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	55.8	µg/L	SW8260C			50.00		112	76 - 138				
Surr: 4-Bromofluorobenzene	46.2	µg/L	SW8260C			50.00		92.4	77 - 121				
Surr: Dibromofluoromethane	52.4	µg/L	SW8260C			50.00		105	67 - 128				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	81 - 135				
Lab Sample ID: MB VOC 090913B	Date Analyzed: 09/09/2013 1650h												
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	54.7	µg/L	SW8260C			50.00		109	76 - 138				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	77 - 121				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				
Lab Sample ID: MB VOC 091013A	Date Analyzed: 09/10/2013 0818h												
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	56.6	µg/L	SW8260C			50.00		113	76 - 138				
Surr: 4-Bromofluorobenzene	47.6	µg/L	SW8260C			50.00		95.1	77 - 121				
Surr: Dibromofluoromethane	53.0	µg/L	SW8260C			50.00		106	67 - 128				
Surr: Toluene-d8	47.8	µg/L	SW8260C			50.00		95.7	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309103-007CMS	Date Analyzed:	09/09/2013 0910h											
Test Code: 8260-W													
Chloroform	12,100	µg/L	SW8260C	27.7	200	2,000	9640	124	50 - 146				
Methylene chloride	2,320	µg/L	SW8260C	15.5	200	2,000	0	116	30 - 192				
Surr: 1,2-Dichloroethane-d4	5,480	µg/L	SW8260C			5,000		110	72 - 151				
Surr: 4-Bromofluorobenzene	4,380	µg/L	SW8260C			5,000		87.6	80 - 128				
Surr: Dibromofluoromethane	5,280	µg/L	SW8260C			5,000		106	80 - 124				
Surr: Toluene-d8	4,720	µg/L	SW8260C			5,000		94.4	77 - 129				
Lab Sample ID: 1309103-014CMS	Date Analyzed:	09/10/2013 0015h											
Test Code: 8260-W													
Chloroform	20.9	µg/L	SW8260C	0.277	2.00	20.00	0	105	50 - 146				
Methylene chloride	23.3	µg/L	SW8260C	0.155	2.00	20.00	0	117	30 - 192				
Surr: 1,2-Dichloroethane-d4	55.7	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	45.5	µg/L	SW8260C			50.00		91.0	80 - 128				
Surr: Dibromofluoromethane	53.1	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	46.4	µg/L	SW8260C			50.00		92.7	77 - 129				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309103
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309103-007CMSD	Date Analyzed: 09/09/2013 0929h												
Test Code: 8260-W													
Chloroform	11,600	µg/L	SW8260C	27.7	200	2,000	9640	98.2	50 - 146	12100	4.34	25	
Methylene chloride	2,240	µg/L	SW8260C	15.5	200	2,000	0	112	30 - 192	2320	3.60	25	
Surr: 1,2-Dichloroethane-d4	5,360	µg/L	SW8260C			5,000		107	72 - 151				
Surr: 4-Bromofluorobenzene	4,350	µg/L	SW8260C			5,000		87.0	80 - 128				
Surr: Dibromofluoromethane	5,220	µg/L	SW8260C			5,000		104	80 - 124				
Surr: Toluene-d8	4,670	µg/L	SW8260C			5,000		93.4	77 - 129				
Lab Sample ID: 1309103-014CMSD	Date Analyzed: 09/10/2013 0034h												
Test Code: 8260-W													
Chloroform	22.1	µg/L	SW8260C	0.277	2.00	20.00	0	111	50 - 146	20.9	5.71	25	
Methylene chloride	24.6	µg/L	SW8260C	0.155	2.00	20.00	0	123	30 - 192	23.3	5.30	25	
Surr: 1,2-Dichloroethane-d4	56.0	µg/L	SW8260C			50.00		112	72 - 151				
Surr: 4-Bromofluorobenzene	45.5	µg/L	SW8260C			50.00		91.0	80 - 128				
Surr: Dibromofluoromethane	53.5	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	46.4	µg/L	SW8260C			50.00		92.8	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1309103**

Client: Energy Fuels Resources, Inc.

Due Date: 9/17/2013

Client ID: DEN100

Contact: Garrin Palmer

Project: **3rd Quarter Chloroform 2013**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.; el

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309103-001A	**TW4-25_09032013**	9/3/2013 1240h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-001C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-002A	**TW4-24_09032013**	9/3/2013 1255h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-002C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-003A	**TW4-04_09032013**	9/3/2013 1347h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-003C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-004A	**MW-04_09032013**	9/3/2013 1335h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-004C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-005A	**TW4-19_09032013**	9/3/2013 1030h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-005C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-006A	**MW-26_09032013**	9/3/2013 1325h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1

Printed: 9/6/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK DB HOK [illegible] HOK____ COC Emailed 9/6/13 el

WORK ORDER Summary

Work Order: **1309103**

Client: Energy Fuels Resources, Inc.

Due Date: 9/17/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309103-006B	**MW-26_09032013**	9/3/2013 1325h	9/6/2013 1145h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous	☑	df - no2/no3	1
1309103-006C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-007A	**TW4-22_09032013**	9/3/2013 1305h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-007C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-008A	**TW4-20_09032013**	9/3/2013 1315h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-008C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-009A	**MW-32_09042013**	9/4/2013 1240h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-009C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-010A	**TW4-05R_09042013**	9/4/2013 1407h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-010C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-011A	**TW4-70_09052013**	9/5/2013 0710h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-011C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-012A	**TW4-31_09052013**	9/5/2013 0655h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-012C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3

WORK ORDER Summary

Work Order: **1309103**

Client: Energy Fuels Resources, Inc.

Due Date: 9/17/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309103-013A	**TW4-23_09052013**	9/5/2013 0704h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-013B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-013C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-014A	**TW4-08_09052013**	9/5/2013 0710h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-014B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-014C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-015A	**TW4-09_09052013**	9/5/2013 0723h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-015B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-015C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-016A	**TW4-16_09052013**	9/5/2013 0729h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-016B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-016C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-017A	**TW4-26_09052013**	9/5/2013 0748h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-017B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-017C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-018A	**TW4-06_09052013**	9/5/2013 0757h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-018B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309103-018C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309103-019A	**TW4-05_09052013**	9/5/2013 0805h	9/6/2013 1145h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309103-019B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

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WORK ORDER Summary

Work Order: **1309103**

Client: Energy Fuels Resources, Inc.

Due Date: 9/17/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309103-019C	**TW4-05_09052013**	9/5/2013 0805h	9/6/2013 1145h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1309103-020A	**TW4-18_09052013**	9/5/2013 0815h	9/6/2013 1145h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1309103-020B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1309103-020C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1309103-021A	**Trip Blank**	9/3/2013	9/6/2013 1145h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				

American West Analytical Laboratories

463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1309103
AWAL Lab Sample Set #
Page 1 of 2

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 3rd quarter Chloroform 2013
Project #:
PO #:
Sampler Name: Tanner Holliday, Garrin Palmer

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
TW4-25_09032013	9/3/2013	1240	5	W	X	X	X	
TW4-24_09032013	9/3/2013	1255	5	W	X	X	X	
TW4-04_09032013	9/3/2013	1347	5	W	X	X	X	
MW-04_09032013	9/3/2013	1335	5	W	X	X	X	
TW4-19_09032013	9/3/2013	1030	5	W	X	X	X	
MW-26_09032013	9/3/2013	1325	5	W	X	X	X	
TW4-22_09032013	9/3/2013	1305	5	W	X	X	X	*two vial Broke
TW4-20_09032013	9/3/2013	1315	5	W	X	X	X	*one vial Broken
MW-32_09042013	9/4/2013	1240	5	W	X	X	X	
TW4-05R_09042013	9/4/2013	1407	5	W	X	X	X	
TW4-70_09052013	9/5/2013	710	5	W	X	X	X	
TW4-31_09052013	9/5/2013	655	5	W	X	X	X	
TW4-23_09052013	9/5/2013	704	5	W	X	X	X	

Laboratory Use Only

Samples Were: Fed-X
1. Shipped or hand delivered
2. Ambient or Chilled
3. Temperature 3.9 °C
4. Received Broken/Leaking (Improperly Sealed) Y* N *See comments
5. Properly Preserved Y N
Checked at bench Y N
6. Received Within Holding Times Y N

COC Tape Was:
1. Present on Outer Package Y N NA
2. Unbroken on Outer Package Y N NA
3. Present on Sample Y N NA
4. Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date:	Received by: Signature	Date:
Tanner Holliday	9/5/2013		
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature Elena Hayward	Date: 9-6-13
Print Name:	Time:	Print Name: Elena Hayward	Time: 1145
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

American West Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

Chain of Custody

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1307113
AWAL Lab Sample Set #
Page 2 of 2

QC Level: 3
Turn Around Time: Standard
Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.
Due Date:

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 3rd quarter Chloroform 2013
Project #:
PO #:
Sampler Name: Tanner Holliday, Garrin Palmer

X Include EDD: LOCUS UPLOAD EXCEL
Field Filtered For:

For Compliance With:
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ Non-Compliance
☐ Other:

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
TW4-08_09052013	9/5/2013	710	5	w	x	x	x	
TW4-09_09052013	9/5/2013	723	5	w	x	x	x	
TW4-16_09052013	9/5/2013	729	5	w	x	x	x	
TW4-26_09052013	9/5/2013	748	5	w	x	x	x	
TW4-06_09052013	9/5/2013	757	5	w	x	x	x	
TW4-05_09052013	9/5/2013	805	5	w	x	x	x	
TW4-18_09052013	9/5/2013	815	5	w	x	x	x	
TRIP BLANK	9/3/2013		3	w			x	
TEMP BLANK	9/5/2013		1	w				

Laboratory Use Only

Samples Were: Fed-X
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by	Date/Time	Received by	Date/Time
Signature: Tanner Holliday; Print Name: Tanner Holliday	Date: 9/5/2013; Time: 1100	Signature:; Print Name:	Date:; Time:
Signature:; Print Name:	Date:; Time:	Signature: Elma Hayward; Print Name: Elma Hayward	Date: 9-6-13; Time: 1145
Signature:; Print Name:	Date:; Time:	Signature:; Print Name:	Date:; Time:
Signature:; Print Name:	Date:; Time:	Signature:; Print Name:	Date:; Time:

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
General Inorganics					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO3	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO3	A2320 B	1 mg/L	14 days	None	
Volatile Organic Compounds –Chloroform Program					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
SVOCs – Tailings Impoundment Samples Only					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3´-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Lab Set ID: 1307103

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	2
Ammonia	pH <2 H_2SO_4																				
COD	pH <2 H_2SO_4																				
Cyanide	pH >12 NaOH																				
Metals	pH <2 HNO_3																				
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	y
O & G	pH <2 HCL																				
Phenols	pH <2 H_2SO_4																				
Sulfide	pH > 9NaOH, Zn Acetate																				
TKN	pH <2 H_2SO_4																				
T PO_4	pH <2 H_2SO_4																				

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved

▲ The Sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix

● The sample pH was unadjustable to a pH > ____ due to the sample matrix interference

American West
ANALYTICAL LABORATORIES

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 3rd Quarter Chloroform 2013

Dear Garrin Palmer: Lab Set ID: 1309255

463 West 3600 South
Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received 9 sample(s) on 9/13/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.09.24 14:41:07 -06'00'

Approved by:
Laboratory Director or designee

SAMPLE SUMMARY

American West Analytical Laboratories

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2013
Lab Set ID: 1309255
Date Received: 9/13/2013 1015h

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1309255-001A	TW4-29_09122013	9/12/2013 0657h	Aqueous	Anions, E300.0
1309255-001B	TW4-29_09122013	9/12/2013 0657h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-001C	TW4-29_09122013	9/12/2013 0657h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-002A	TW4-21_09122013	9/12/2013 0711h	Aqueous	Anions, E300.0
1309255-002B	TW4-21_09122013	9/12/2013 0711h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-002C	TW4-21_09122013	9/12/2013 0711h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-003A	TW4-10_09122013	9/12/2013 0723h	Aqueous	Anions, E300.0
1309255-003B	TW4-10_09122013	9/12/2013 0723h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-003C	TW4-10_09122013	9/12/2013 0723h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-004A	TW4-11_09122013	9/12/2013 0747h	Aqueous	Anions, E300.0
1309255-004B	TW4-11_09122013	9/12/2013 0747h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-004C	TW4-11_09122013	9/12/2013 0747h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-005A	TW4-07_09122013	9/12/2013 0753h	Aqueous	Anions, E300.0
1309255-005B	TW4-07_09122013	9/12/2013 0753h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-005C	TW4-07_09122013	9/12/2013 0753h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-006B	TW4-01_09122013	9/12/2013 0800h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-006C	TW4-01_09122013	9/12/2013 0800h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-007A	TW4-02_09122013	9/12/2013 0807h	Aqueous	Anions, E300.0
1309255-007B	TW4-02_09122013	9/12/2013 0807h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-007C	TW4-02_09122013	9/12/2013 0807h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-008A	TW4-60_ 09122013	9/12/2013 0845h	Aqueous	Anions, E300.0
1309255-008B	TW4-60_ 09122013	9/12/2013 0845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309255-008C	TW4-60_ 09122013	9/12/2013 0845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309255-009A	Trip Blank	9/12/2013	Aqueous	VOA by GC/MS Method 8260C/5030C

Inorganic Case Narrative

American West
ANALYTICAL LABORATORIES

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Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	3rd Quarter Chloroform 2013
Lab Set ID:	1309255

Sample Receipt Information:

Date of Receipt:	9/13/2013
Date of Collection:	9/12/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: The MS and MSD percent recoveries for nitrate/nitrite were outside of control limits on sample 1309255-005B due to sample matrix interference.

Corrective Action: None required.

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ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R59272 Date Analyzed: 09/18/2013 1211h													
Test Code: 300.0-W													
Chloride	4.50	mg/L	E300.0	0.0114	0.100	5.000	0	90.1	90 - 110				
Lab Sample ID: LCS-R59208 Date Analyzed: 09/17/2013 2038h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00252	0.100	1.000	0	102	90 - 110				

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Jose Rocha
QA Officer

American West ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R59272 Date Analyzed: 09/18/2013 1148h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R59208 Date Analyzed: 09/17/2013 2037h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								

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ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309253-001AMS Date Analyzed: 09/18/2013 1802h Test Code: 300.0-W													
Chloride	467	mg/L	E300.0	1.14	10.0	500.0	7.94	91.8	90 - 110				
Lab Sample ID: 1309255-008AMS Date Analyzed: 09/18/2013 2241h Test Code: 300.0-W													
Chloride	4.83	mg/L	E300.0	0.0114	0.100	5.000	0.029	96.0	90 - 110				
Lab Sample ID: 1309253-001BMS Date Analyzed: 09/17/2013 2045h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.36	mg/L	E353.2	0.00252	0.100	1.000	0.413	94.8	90 - 110				
Lab Sample ID: 1309255-005BMS Date Analyzed: 09/17/2013 2117h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.2	mg/L	E353.2	0.0252	1.00	10.00	4.17	120	90 - 110				1

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Jose Rocha
QA Officer

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ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309253-001AMSD Date Analyzed: 09/18/2013 1825h													
Test Code: 300.0-W													
Chloride	459	mg/L	E300.0	1.14	10.0	500.0	7.94	90.2	90 - 110	467	1.73	20	
Lab Sample ID: 1309255-008AMSD Date Analyzed: 09/18/2013 2304h													
Test Code: 300.0-W													
Chloride	4.86	mg/L	E300.0	0.0114	0.100	5.000	0.029	96.6	90 - 110	4.83	0.660	20	
Lab Sample ID: 1309253-001BMSD Date Analyzed: 09/17/2013 2047h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.31	mg/L	E353.2	0.00252	0.100	1.000	0.413	89.7	90 - 110	1.36	3.77	10	§
Lab Sample ID: 1309255-005BMSD Date Analyzed: 09/17/2013 2118h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.6	mg/L	E353.2	0.0252	1.00	10.00	4.17	115	90 - 110	16.2	3.32	10	[1]

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOA 091613B	Date Analyzed: 09/16/2013 1904h												
Test Code: 8260-W													
Chloroform	20.2	µg/L	SW8260C	0.277	2.00	20.00	0	101	67 - 132				
Methylene chloride	17.9	µg/L	SW8260C	0.155	2.00	20.00	0	89.3	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.5	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260C			50.00		95.5	77 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.3	81 - 135				
Lab Sample ID: LCS VOA 091713A	Date Analyzed: 09/17/2013 1057h												
Test Code: 8260-W													
Chloroform	21.1	µg/L	SW8260C	0.277	2.00	20.00	0	106	67 - 132				
Methylene chloride	18.4	µg/L	SW8260C	0.155	2.00	20.00	0	91.9	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.5	77 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.1	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOA 091613B	Date Analyzed: 09/16/2013 1941h												
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	55.5	µg/L	SW8260C			50.00		111	76 - 138				
Surr: 4-Bromofluorobenzene	52.5	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	51.5	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	50.3	µg/L	SW8260C			50.00		101	81 - 135				
Lab Sample ID: MB VOA 091713A	Date Analyzed: 09/17/2013 1134h												
Test Code: 8260-W													
Carbon tetrachloride	< 2.00	µg/L	SW8260C	0.137	2.00								
Chloroform	< 2.00	µg/L	SW8260C	0.277	2.00								
Chloromethane	< 3.00	µg/L	SW8260C	0.127	3.00								
Methylene chloride	< 2.00	µg/L	SW8260C	0.155	2.00								
Surr: 1,2-Dichloroethane-d4	56.2	µg/L	SW8260C			50.00		112	76 - 138				
Surr: 4-Bromofluorobenzene	52.6	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	67 - 128				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309253-001CMS	Date Analyzed: 09/17/2013 0017h												
Test Code: 8260-W													
Chloroform	18.4	µg/L	SW8260C	0.277	2.00	20.00	0	92.2	50 - 146				
Methylene chloride	16.0	µg/L	SW8260C	0.155	2.00	20.00	0	80.2	30 - 192				
Surr: 1,2-Dichloroethane-d4	56.3	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	47.6	µg/L	SW8260C			50.00		95.3	80 - 128				
Surr: Dibromofluoromethane	52.8	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.7	77 - 129				
Lab Sample ID: 1309255-001CMS	Date Analyzed: 09/17/2013 0054h												
Test Code: 8260-W													
Chloroform	19.7	µg/L	SW8260C	0.277	2.00	20.00	0	98.4	50 - 146				
Methylene chloride	17.1	µg/L	SW8260C	0.155	2.00	20.00	0	85.6	30 - 192				
Surr: 1,2-Dichloroethane-d4	55.7	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.4	80 - 128				
Surr: Dibromofluoromethane	53.3	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.8	77 - 129				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309255
Project: 3rd Quarter Chloroform 2013

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1309253-001CMSD Date Analyzed: 09/17/2013 0036h Test Code: 8260-W													
Chloroform	17.1	µg/L	SW8260C	0.277	2.00	20.00	0	85.7	50 - 146	18.4	7.37	25	
Methylene chloride	15.2	µg/L	SW8260C	0.155	2.00	20.00	0	75.8	30 - 192	16	5.58	25	
Surr: 1,2-Dichloroethane-d4	55.8	µg/L	SW8260C			50.00		112	72 - 151				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260C			50.00		95.7	80 - 128				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	77 - 129				
Lab Sample ID: 1309255-001CMSD Date Analyzed: 09/17/2013 0113h Test Code: 8260-W													
Chloroform	21.0	µg/L	SW8260C	0.277	2.00	20.00	0	105	50 - 146	19.7	6.44	25	
Methylene chloride	18.2	µg/L	SW8260C	0.155	2.00	20.00	0	90.9	30 - 192	17.1	6.06	25	
Surr: 1,2-Dichloroethane-d4	56.3	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260C			50.00		98.3	80 - 128				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.1	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1309255**

Client: Energy Fuels Resources, Inc.
Due Date: 9/24/2013

Client ID: DEN100
Contact: Garrin Palmer

Project: **3rd Quarter Chloroform 2013**
QC Level: III
WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.; DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309255-001A	**TW4-29_09122013**	9/12/2013 0657h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-001C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-002A	**TW4-21_09122013**	9/12/2013 0711h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-002C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-003A	**TW4-10_09122013**	9/12/2013 0723h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-003C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-004A	**TW4-11_09122013**	9/12/2013 0747h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-004C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-005A	**TW4-07_09122013**	9/12/2013 0753h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-005C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-006A	**TW4-01_09122013**	9/12/2013 0800h	9/13/2013 1015h		Aqueous	☐	Cl not received	1
1309255-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

Printed: 9/13/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK____ HOK____ HOK____ COC Emailed DB 9/13/13

WORK ORDER Summary

Work Order: **1309255**

Client: Energy Fuels Resources, Inc.

Due Date: 9/24/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309255-006C	**TW4-01_09122013**	9/12/2013 0800h	9/13/2013 1015h	**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*	Aqueous	☑	VOCFridge	3
1309255-007A	**TW4-02_09122013**	9/12/2013 0807h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-007C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-008A	**TW4-60_09122013**	9/12/2013 0845h	9/13/2013 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1309255-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1309255-008C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1309255-009A	**Trip Blank**	9/12/2013	9/13/2013 1015h	**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*	Aqueous	☑	VOCFridge	3

American West Analytical Laboratories

463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

Chain of Custody

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1309255
AWAL Lab Sample Set #
Page 1 of 1

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 3rd Quarter Chloroform 2013
Project #:
PO #:
Sampler Name: Tanner Holliday, Garrin Palmer

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-29_09122013	9/12/2013	657	5	W	X	X	X	
2	TW4-21_09122013	9/12/2013	711	5	W	X	X	X	
3	TW4-10_09122013	9/12/2013	723	5	W	X	X	X	
4	TW4-11_09122013	9/12/2013	747	5	W	X	X	X	
5	TW4-07_09122013	9/12/2013	753	5	W	X	X	X	
6	TW4-01_09122013	9/12/2013	800	5	W	X	~~X~~ *	X	* Bottle for Cl not received - DB 9/13/13
7	TW4-02_09122013	9/12/2013	807	5	W	X	X	X	
8	TW4-60_09122013	9/12/2013	845	5	W	X	X	X	
9	TRIP BLANK	9/12/2013		3	W			X	
#	TEMP BLANK	9/12/2013							
11									
12									
13									

Laboratory Use Only

Samples Were: FedEx
1. Shipped or hand delivered
2. Ambient or Chilled
3. Temperature 2.6 °C
4. Received Broken/Leaking (Improperly Sealed) Y N
5. Properly Preserved Y N
Checked at bench Y N
6. Received Within Holding Times Y N

COC Tape Was:
1. Present on Outer Package Y N NA
2. Unbroken on Outer Package Y N NA
3. Present on Sample Y N NA
4. Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by	Date / Time	Received by	Date / Time
Signature: Tanner Holliday; Print Name: Tanner Holliday	Date: 9/12/13; Time: 1100	Signature: ; Print Name:	Date: ; Time:
Signature: ; Print Name:	Date: ; Time:	Signature: ; Print Name:	Date: ; Time:
Signature: ; Print Name:	Date: ; Time:	Signature: ; Print Name:	Date: ; Time:
Signature: ; Print Name:	Date: ; Time:	Signature: Denise Bruun; Print Name: Denise Bruun	Date: 9/13/13; Time: 10:15

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
General Inorganics					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO3	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO3	A2320 B	1 mg/L	14 days	None	
Volatile Organic Compounds –Chloroform Program					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 μg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 μg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 μg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 μg/L	14 days	HCl to pH<2	≤ 6°C
SVOCs – Tailings Impoundment Samples Only					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3′-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Lab Set ID: 1309255

Preservation Check Sheet

Sample Set Extension and pH

Analysis	**Preservative**	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes										
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved

▲ The Sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference

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			--		2215		NC	9.40		NC	15.32		NC	332		NC	13		NC
Piezometer 2			--		689		NC	7.76		NC	14.59		NC	315		NC	3.1		NC
Piezometer 3			--		3136.0		NC	12.08		NC	14.46		NC	260		NC	12		NC
TWN-1	36.62	73.24	90.00	OK	890.0	895.0	0.56	7.23	7.23	0.00	15.12	15.12	0.00	270	271	0.37	44	44	0.00
TWN-2	NA	Continuously Pumped Well			2847		NC	6.87		NC	17.29		NC	276		NC	0		NC
TWN-3	38.09	76.18	49.50	Pumped Dry	2492.0	2486.0	0.24	7.17	7.15	0.28	14.79	14.73	0.41	NM		NC	NM		NC
TWN-4	50.34	100.68	132.00	OK	1054.0	1054.0	0.00	7.16	7.16	0.00	14.79	14.79	0.00	246	246	0.00	84.0	84.0	0.00
TWN-7	11.72	23.44	14.00	Pumped Dry	1225.0	1230.0	0.41	7.02	7.15	1.83	15.94	15.99	0.31	NM		NC	NM		NC
TWN-18	56.38	112.76	132.00	OK	2228.0	2232.0	0.18	6.94	6.93	0.14	14.64	14.64	0.00	274	274	0.00	257.0	260.0	1.16
TW4-22	NA	Continuously pumped well			6097		NC	6.94		NC	17.10		NC	254		NC	0.5		NC
TW4-24	NA	Continuously pumped well			8247		NC	6.73		NC	17.11		NC	254		NC	0		NC
TW4-25	NA	Continuously pumped well			2895		NC	7.27		NC	16.97		NC	275		NC	0.8		NC

NC = Not Calculated

RPD = Relative Percent Difference

TWN-2 , TW4-22, TW4-24, and TW4-25 are continuously pumping wells.

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

TWN-3 and TWN-7 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.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

H-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
PIEZ-01	Chloride	8/28/2013	9/10/2013	13	28	OK
PIEZ-01	Nitrate/Nitrite (as N)	8/28/2013	9/6/2013	9	28	OK
PIEZ-02	Chloride	8/28/2013	9/10/2013	13	28	OK
PIEZ-02	Nitrate/Nitrite (as N)	8/28/2013	9/6/2013	9	28	OK
PIEZ-03	Chloride	8/28/2013	9/10/2013	13	28	OK
PIEZ-03	Nitrate/Nitrite (as N)	8/28/2013	9/6/2013	9	28	OK
TWN-01	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-01	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TWN-01R	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-01R	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TWN-02	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-02	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TWN-03	Chloride	8/28/2013	9/4/2013	7	28	OK
TWN-03	Nitrate/Nitrite (as N)	8/28/2013	9/6/2013	9	28	OK
TWN-04	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-04	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TWN-07	Chloride	8/28/2013	9/4/2013	7	28	OK
TWN-07	Nitrate/Nitrite (as N)	8/28/2013	9/6/2013	9	28	OK
TWN-18	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-18	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TW4-22	Chloride	9/3/2013	9/12/2013	9	28	OK
TW4-22	Nitrate/Nitrite (as N)	9/3/2013	9/12/2013	9	28	OK
TW4-24	Chloride	9/3/2013	9/12/2013	9	28	OK
TW4-24	Nitrate/Nitrite (as N)	9/3/2013	9/12/2013	9	28	OK
TW4-25	Chloride	9/3/2013	9/12/2013	9	28	OK
TW4-25	Nitrate/Nitrite (as N)	9/3/2013	9/12/2013	9	28	OK
TWN-60	Chloride	8/27/2013	9/5/2013	9	28	OK
TWN-60	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	28	OK
TW4-60	Chloride	9/12/2013	9/18/2013	6	28	OK
TW4-60	Nitrate/Nitrite (as N)	9/12/2013	9/17/2013	5	28	OK
TWN-65	Chloride	8/27/2013	9/4/2013	8	28	OK
TWN-65	Nitrate/Nitrite (as N)	8/27/2013	9/6/2013	10	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	10	mg/L		1	mg/L	OK
PIEZ-01	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK
PIEZ-02	Chloride	5	mg/L		1	mg/L	OK
PIEZ-02	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
PIEZ-03	Chloride	5	mg/L		1	mg/L	OK
PIEZ-03	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
TWN-01	Chloride	5	mg/L		1	mg/L	OK
TWN-01	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
TWN-01R	Chloride	1	mg/L	U	1	mg/L	OK
TWN-01R	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK
TWN-02	Chloride	10	mg/L		1	mg/L	OK
TWN-02	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK
TWN-03	Chloride	50	mg/L		1	mg/L	OK
TWN-03	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK
TWN-04	Chloride	5	mg/L		1	mg/L	OK
TWN-04	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
TWN-07	Chloride	1	mg/L		1	mg/L	OK
TWN-07	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
TWN-18	Chloride	10	mg/L		1	mg/L	OK
TWN-18	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK
TW4-22	Chloride	100	mg/L		1	mg/L	OK
TW4-22	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK
TW4-24	Chloride	100	mg/L		1	mg/L	OK
TW4-24	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK
TW4-25	Chloride	50	mg/L		1	mg/L	OK
TW4-25	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK
TWN-60	Chloride	1	mg/L	U	1	mg/L	OK
TWN-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK
TW4-60	Chloride	1	mg/L	U	1	mg/L	OK
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK
TWN-65	Chloride	5	mg/L		1	mg/L	OK
TWN-65	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK

U = Value was reported by the laboratory as nondetect.

H-5 QA/QC Evaluation for Sample Duplicates

Constituent	TWN-04	TWN-65	%RPD
Chloride	27.2	29	6.41
Nitrogen	1.58	1.57	0.63

RPD = Relative Percent Difference

H-6 QC Control Limits for Analysis and Blanks

Method Blank Detections
All Method Blanks for the quarter were non-detect.

Matrix Spike % Recovery Comparison

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
1308556	1308556-005BMS	TWN-18	Nitrate	133	122	90 - 110	7.27

Laboratory Control Sample
All Laboratory Control Samples were within acceptance limits for the quarter.

H-7 Receipt Temperature Evaluation

Sample Batch	Wells in Batch	Temperature
1308556	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-7, TWN-18, TWN-60, TWN-65	0.8 °C
1309103	TW4-22, TW4-24, TW4-25	3.9 °C
1309255	TW4-60	2.6 °C

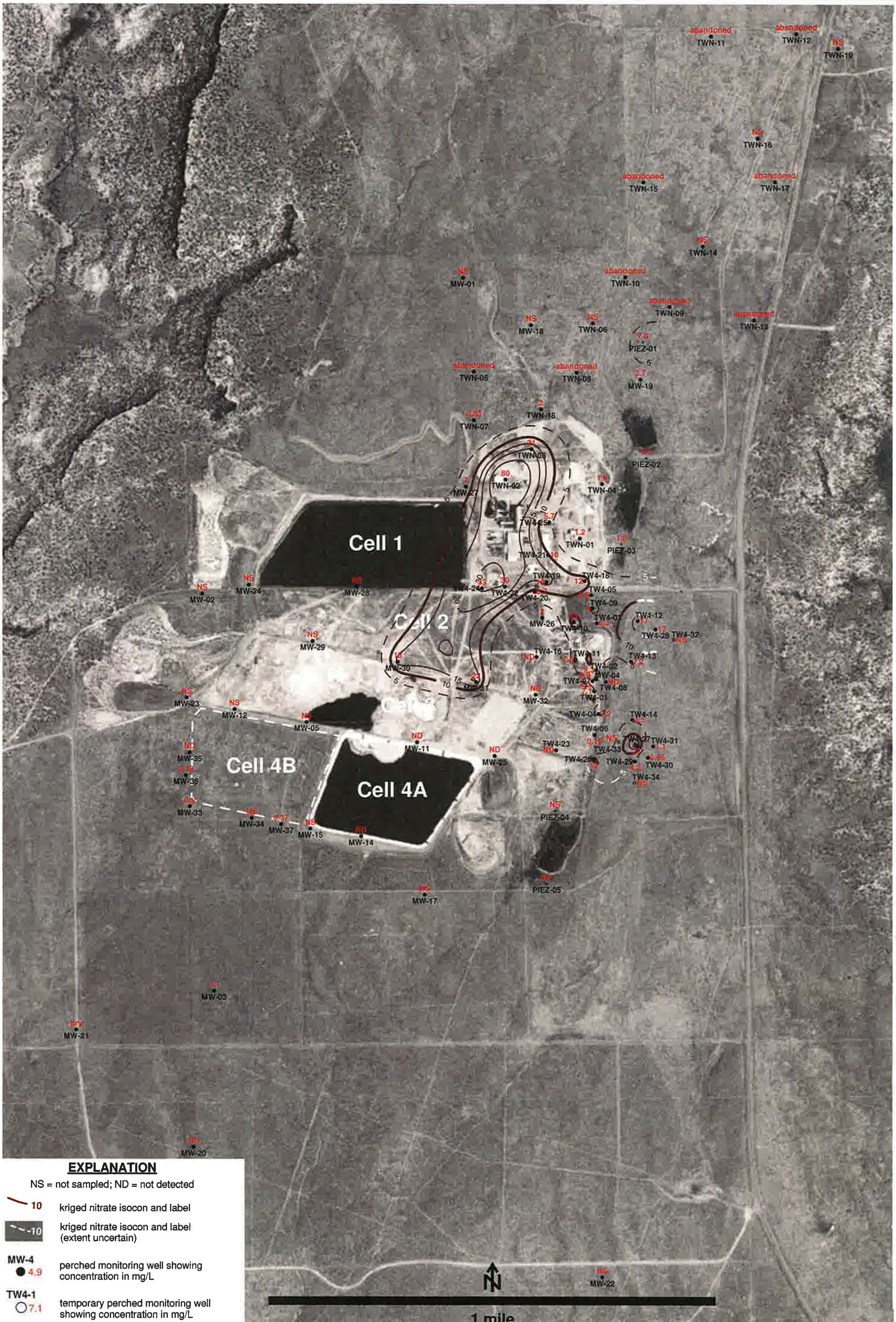
H-8 Rinsate Evaluation

All Rinsate and DI Blank samples were non-detect for the quarter.

Rinsate and DI Blank samples are shown on Table 1 and the analytical data are included in Tab G.

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 ● 4.9 perched monitoring well showing concentration in mg/L

TW4-1 ○ 7.1 temporary perched monitoring well showing concentration in mg/L

TWN-1 ◆ 1.2 temporary perched nitrate monitoring well showing concentration in mg/L

PIEZ-1 ◓ 7.8 perched piezometer showing concentration in mg/L

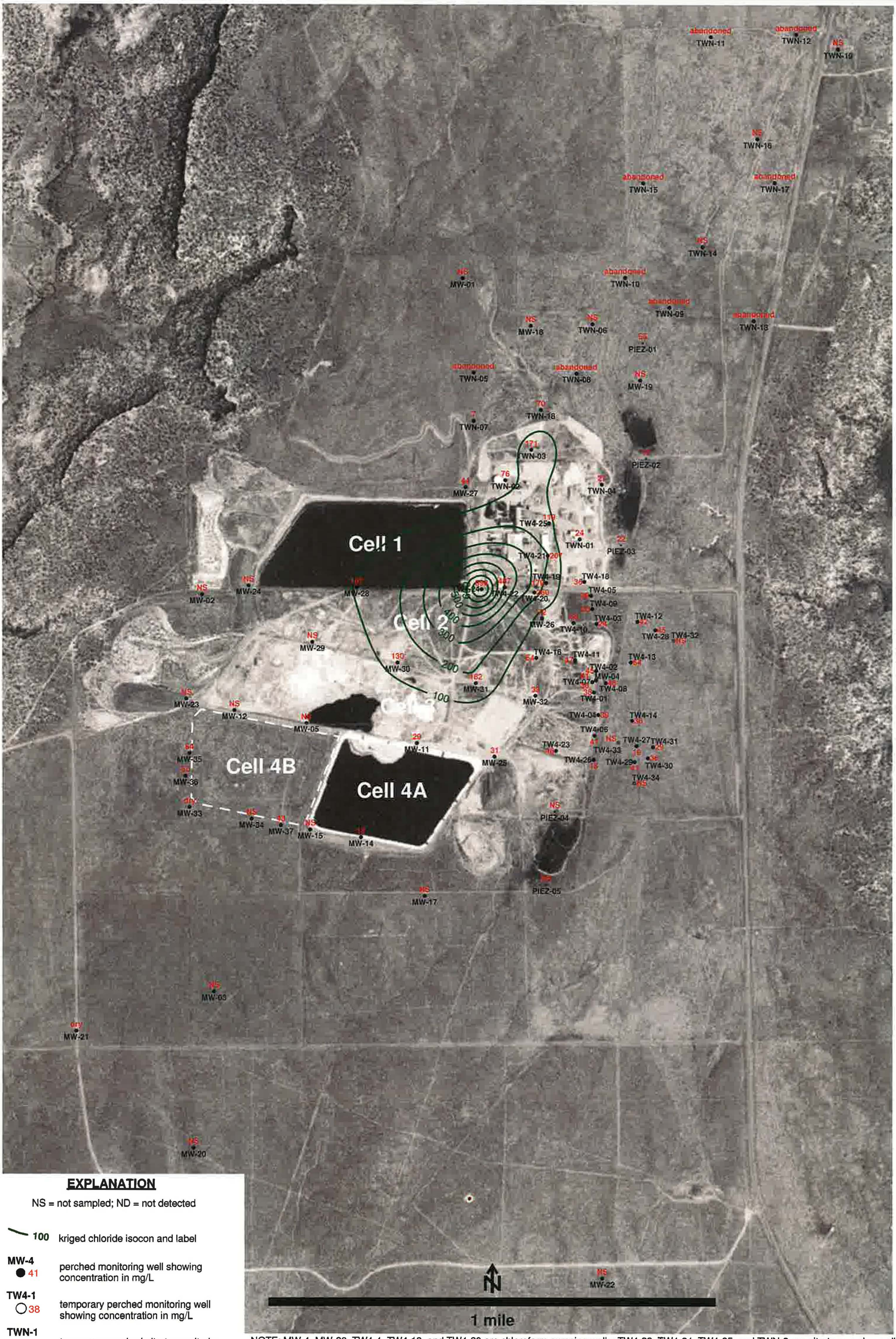
TW4-32 ☼ NS temporary perched monitoring well installed September, 2013 (not sampled)

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO
GEO
CHEM, INC.

KRIGED 3rd QUARTER, 2013 NITRATE (mg/L) (NITRATE + NITRITE AS N) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/nitrate/Unt0913.srf	I-1



EXPLANATION

NS = not sampled; ND = not detected

100	kriged chloride isocon and label
MW-4 ● 41	perched monitoring well showing concentration in mg/L
TW4-1 ○ 38	temporary perched monitoring well showing concentration in mg/L
TWN-1 ◆ 24	temporary perched nitrate monitoring well showing concentration in mg/L
PIEZ-1 55	perched piezometer showing concentration in mg/L
TW4-32 NS	temporary perched monitoring well installed September, 2013 (not sampled)

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2013 CHLORIDE (mg/L)
WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/chloride/Ucl0913.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
10/15/2012	0.432	17.5
2/18/2013	0.681	17.6
4/23/2013	0.84	17.4
8/27/2013	1.24	24.1

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
10/17/2012	22.1	79
2/19/2013	57.3	80.5
4/24/2013	57.7	82.1
8/27/2013	80	75.9

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
10/17/2012	12.1	149
2/19/2013	22.2	157
4/24/2013	27.2	158
8/28/2013	20.9	171

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
10/15/2012	1.45	26.4
2/18/2013	1.51	25.3
4/23/2013	1.63	24.4
8/27/2013	1.58	27.2

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	
10/15/2012	0.1	43.5	Nitrate ND

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
10/15/2012	0.786	20.4

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
10/16/2012	0.641	5.67
2/19/2013	0.591	5.68
4/24/2013	1.16	5.88
8/28/2013	0.835	6.96

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
10/15/2012	0	11.1	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
10/15/2012	12.5	194

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
10/16/2012	0.119	30.8

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
10/16/2012	1.84	76.4

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
10/16/2012	1.41	101

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	
10/15/2012	0	47.3	Nitrate ND

TWN-14

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	3.4	32
3/24/2010	2.9	24
6/2/2010	2.9	30
7/15/2010	3.5	26
12/10/2010	4.2	28
1/28/2011	3.7	24
4/27/2011	3.5	30
7/29/2011	3.5	25
10/19/2011	3.9	27
1/11/2012	3.5	26
4/20/2012	3.4	27
7/27/2012	3.7	27
10/17/2012	4.03	27.4

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
10/17/2012	1.8	47

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
10/16/2012	2.5	32.1

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
10/17/2012	9.65	84.8

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
10/16/2012	1.95	67.5
2/18/2013	2.27	68.7
4/23/2013	2.32	64.3
8/27/2013	2.04	70.4

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
10/16/2012	7.7	118

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
10/17/2012	7.66	55
2/18/2013	8.11	56.7
4/24/2013	8.88	53.3
8/28/2013	7.83	55.1

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
10/17/2012	0.192	9.5
2/19/2013	0.218	9.67
4/24/2013	0.172	10.3
8/28/2013	0.198	9.66

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
10/17/2012	2.75	20.1
2/19/2013	1.85	21
4/24/2013	1.83	21.2
8/28/2013	1.81	22.4

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

TW4-19

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
7/22/2002	42.80	12/7/2005	81
9/12/2002	47.60	3/9/2006	86
3/28/2003	61.40	7/20/2006	123
6/23/2003	11.40	11/9/2006	134
7/15/2003	6.80	2/28/2007	133
8/15/2003	4.00	8/15/2007	129
9/12/2003	5.70	10/10/2007	132
9/25/2003	9.20	3/26/2008	131
10/29/2003	7.70	6/25/2008	128
11/9/2003	4.80	9/10/2008	113
8/16/2004	9.91	10/15/2008	124
9/17/2004	4.50	3/4/2009	127
3/16/2005	5.30	6/23/2009	132
6/7/2005	5.70	9/14/2009	43
8/31/2005	4.60	12/14/2009	124
12/1/2005	0.10	2/17/2010	144
3/9/2006	4.00	6/9/2010	132
6/14/2006	5.20	8/16/2010	142
7/20/2006	4.30	10/11/2010	146
11/9/2006	4.60	2/17/2011	135
2/28/2007	4.00	6/7/2011	148
8/15/2007	4.10	8/17/2011	148
10/10/2007	4.00	11/17/2011	148
3/26/2008	2.20	1/23/2012	138
6/25/2008	2.81	6/6/2012	149
9/10/2008	36.20	9/5/2012	149
10/15/2008	47.80	10/3/2012	150
3/4/2009	3.20	2/11/2013	164
6/23/2009	2.40	6/5/2013	148
9/14/2009	0.10	9/3/2013	179
12/14/2009	26.70		
2/17/2010	2.00		
6/9/2010	4.40		
8/16/2010	5.90		
10/11/2010	2.70		
2/17/2011	17.00		
6/7/2011	12.00		
8/17/2011	3.00		
11/17/2011	5.00		
1/23/2012	0.60		
6/6/2012	2.40		
9/5/2012	2.50		
10/3/2012	4.10		
2/11/2013	7.99		
6/5/2013	2.95		
9/3/2013	17.60		

The sampling program for TW4-19 was updated in the fourth quarter of 2005 to include analysis for chloride as well as nitrate. This change accounts for the different number of data points represented above.

TW4-21

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
5/25/2005	14.6	12/7/2005	353
8/31/2005	10.1	3/9/2006	347
11/30/2005	9.6	7/20/2006	357
3/9/2006	8.5	11/8/2006	296
6/14/2006	10.2	2/28/2007	306
7/20/2006	8.9	6/27/2007	327
11/8/2006	8.7	8/15/2007	300
2/28/2007	8.7	10/10/2007	288
6/27/2007	8.6	3/26/2008	331
8/15/2007	8.6	6/25/2008	271
10/10/2007	8.3	9/10/2008	244
3/26/2008	14.3	10/15/2008	284
6/25/2008	8.8	3/11/2009	279
9/10/2008	7.6	6/24/2009	291
10/15/2008	8.0	9/15/2009	281
3/11/2009	8.3	12/22/2009	256
6/24/2009	8.1	2/25/2010	228
9/15/2009	9.2	6/10/2010	266
12/22/2009	8.4	8/12/2010	278
2/25/2010	8.4	10/13/2010	210
6/10/2010	12.0	2/22/2011	303
8/12/2010	14.0	6/1/2011	297
10/13/2010	7.0	8/17/2011	287
2/22/2011	9.0	11/16/2011	276
6/1/2011	13.0	1/19/2012	228
8/17/2011	14.0	6/13/2012	285
11/16/2011	13.0	9/13/2012	142
1/19/2012	15.0	10/4/2012	270
6/13/2012	11.0	2/13/2013	221
9/13/2012	13.0	6/18/2013	243
10/4/2012	14.0	9/12/2013	207
2/13/2013	11.8		
6/18/2013	13.8		
9/12/2013	10.3		

The sampling program for TW4-21 was updated in the fourth quarter of 2005 to include analysis for chloride as well as nitrate. This change accounts for the different number of data points represented above.

TW4-22

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
2/28/2007	20.9	347	
6/27/2007	19.3	273	
8/15/2007	19.3	259	
10/10/2007	18.8	238	
3/26/2008	39.1	519	
6/25/2008	41.9	271	
9/10/2008	38.7	524	
10/15/2008	36.3	539	
3/11/2009	20.7	177	
6/24/2009	20.6	177	
9/15/2009	40.3	391	
12/29/2009	17.8	175	
3/3/2010	36.6	427	
6/15/2010	19	134	
8/12/2010	18	127	
8/24/2010	15	130	
10/13/2010	16	134	
2/23/2011	18	114	
6/1/2011	17	138	
8/17/2011	15	120	
11/16/2011	19	174	
1/19/2012	14	36	
6/13/2012	12.8	35	
9/12/2012	7	121	
10/4/2012	14	130	
2/11/2013	58	635	
6/5/2013	50.2	586	
9/3/2013	29.7	487	

TW4-24

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
6/27/2007	26.1	770	
8/15/2007	29	791	
10/10/2007	24.7	692	
3/26/2008	24.4	740	
6/25/2008	45.3	834	
9/10/2008	38.4	1180	
10/15/2008	44.6	1130	
3/4/2009	30.5	1010	
6/24/2009	30.4	759	
9/15/2009	30.7	618	
12/17/2009	28.3	1080	
2/25/2010	33.1	896	
6/9/2010	30	639	
8/11/2010	32	556	
8/24/2010	31	587	
10/6/2010	31	522	
2/17/2011	31	1100	
5/26/2011	35	1110	
8/17/2011	34	967	
11/16/2011	35	608	
1/18/2012	37	373	
6/6/2012	37	355	
8/30/2012	37	489	
10/3/2012	38	405	
2/11/2013	35.9	1260	
6/5/2013	23.7	916	
9/3/2013	32.6	998	

TW4-25

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
6/27/2007	17.1	395	
8/15/2007	16.7	382	
10/10/2007	17	356	
3/26/2008	18.7	374	
6/25/2008	22.1	344	
9/10/2008	18.8	333	
10/15/2008	21.3	366	
3/4/2009	15.3	332	
6/24/2009	15.3	328	
9/15/2009	3.3	328	
12/16/2009	14.2	371	
2/23/2010	14.4	296	
6/8/2010	16	306	
8/10/2010	14	250	
10/5/2010	15	312	
2/16/2011	15	315	
5/25/2011	16	321	
8/16/2011	16	276	
11/15/2011	16	294	
1/18/2012	16	304	
5/31/2012	16	287	
9/11/2012	17	334	
10/3/2012	17	338	
2/11/2013	9.04	190	
6/5/2013	5.24	136	
9/3/2013	5.69	119	

MW-30

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/22/2005	12.4	6/22/2005	125
9/22/2005	12.8	9/22/2005	125
12/14/2005	13.6	12/14/2005	128
3/22/2006	13.8	3/22/2006	125
6/21/2006	14.5	6/21/2006	124
9/13/2006	14.1	9/13/2006	118
10/25/2006	14.6	10/25/2006	124
3/15/2007	14.4	3/15/2007	125
8/22/2007	14.6	8/22/2007	126
10/24/2007	14.9	10/24/2007	122
3/19/2008	14.8	3/19/2008	118
6/3/2008	18.7	6/3/2008	125
8/4/2008	17.3	8/4/2008	121
11/5/2008	15.6	11/5/2008	162
2/3/2009	15.3	2/3/2009	113
5/13/2009	15.1	5/13/2009	122
8/24/2009	20.9	8/24/2009	118
10/14/2009	15.0	10/14/2009	129
1/20/2010	15.4	1/20/2010	106
2/9/2010	16.1	2/9/2010	127
4/27/2010	15.8	4/27/2010	97
5/24/2010	17.0	9/14/2010	111
6/15/2010	15.3	11/9/2010	126
8/24/2010	16.0	2/1/2011	134
9/14/2010	15.0	4/11/2011	134
10/19/2010	15.0	5/10/2011	128
11/9/2010	15.0	6/20/2011	127
12/14/2010	16.0	7/5/2011	127
1/10/2011	15.0	8/3/2011	126
2/1/2011	16.0	9/7/2011	145
3/14/2011	17.0	10/4/2011	129
4/11/2011	16.0	11/8/2011	122
5/10/2011	16.0	12/12/2011	124
6/20/2011	17.0	1/24/2012	124
7/5/2011	17.0	2/14/2012	126
8/3/2011	14.0	3/14/2012	128
9/7/2011	16.0	4/10/2012	128
10/4/2011	16.0	5/2/2012	124
11/8/2011	16.0	6/18/2012	131
12/12/2011	16.0	7/10/2012	128
1/24/2012	17.0	8/7/2012	139
2/14/2012	17.0	9/19/2012	130
3/14/2012	18.0	10/23/2012	135
4/10/2012	17.0	11/13/2012	114
5/2/2012	16.0	12/26/2012	122

MW-30

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/18/2012	15.0	1/23/2013	128
7/10/2012	17.0	2/26/2013	129
8/7/2012	18.0	3/20/2013	126
9/19/2012	16.0	4/17/2013	117
10/23/2012	16.2	5/15/2013	119
11/13/2012	18.5	6/25/2013	127
12/26/2012	17.2	7/10/2013	130
1/23/2013	19.2	8/20/2013	126
2/26/2013	21.4	9/18/2013	131
3/20/2013	14.3		
4/17/2013	16.8		
5/15/2013	18.8		
6/25/2013	16.1		
7/10/2013	17.6		
8/20/2013	16.4		
9/18/2013	16.9		

Under the groundwater sampling progran, accelerated monitoring for nitrate began in MW-30 prior to when the accelerated monitoring for chloride began. This difference accounts for the different number of data points represented above.

MW-31

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/22/2005	24.2	6/22/2005	139
9/22/2005	22.4	9/22/2005	136
12/14/2005	23.8	12/14/2005	135
3/22/2006	24.1	3/22/2006	133
6/21/2006	25.3	6/21/2006	138
9/13/2006	24.6	9/13/2006	131
10/25/2006	25.1	10/25/2006	127
3/15/2007	23.2	3/15/2007	132
3/15/2007	22.0	3/15/2007	132
8/27/2007	23.3	8/27/2007	136
10/24/2007	24.6	10/24/2007	122
3/19/2008	25.0	3/19/2008	124
6/3/2008	29.3	6/3/2008	128
8/4/2008	28.7	8/4/2008	124
11/11/2008	29.9	11/11/2008	119
2/3/2009	23.4	2/3/2009	115
5/13/2009	22.4	5/13/2009	124
8/24/2009	15.4	8/24/2009	122
10/14/2009	22.6	10/14/2009	138
2/9/2010	21.7	2/9/2010	128
4/20/2010	22.5	4/20/2010	128
5/21/2010	23.0	9/13/2010	139
6/15/2010	21.1	11/9/2010	138
8/24/2010	22.0	2/1/2011	145
9/13/2010	21.0	4/1/2011	143
10/19/2010	20.0	5/10/2011	143
11/9/2010	20.0	6/20/2011	145
12/14/2010	20.0	7/5/2011	148
1/10/2011	19.0	8/2/2011	148
2/1/2011	21.0	9/6/2011	148
3/14/2011	22.0	10/3/2011	145
4/1/2011	21.0	11/8/2011	145
5/10/2011	20.0	12/12/2011	148
6/20/2011	22.0	1/24/2012	155
7/5/2011	22.0	2/13/2012	150
8/2/2011	20.0	3/13/2012	152
9/6/2011	21.0	4/9/2012	160
10/3/2011	21.0	5/2/2012	151
11/8/2011	21.0	6/18/2012	138
12/12/2011	21.0	7/9/2012	161
1/24/2012	21.0	8/6/2012	175
2/13/2012	21.0	9/18/2012	172
3/13/2012	22.0	10/22/2012	157
4/9/2012	21.0	11/6/2012	189
5/2/2012	20.0	12/18/2012	170

MW-31

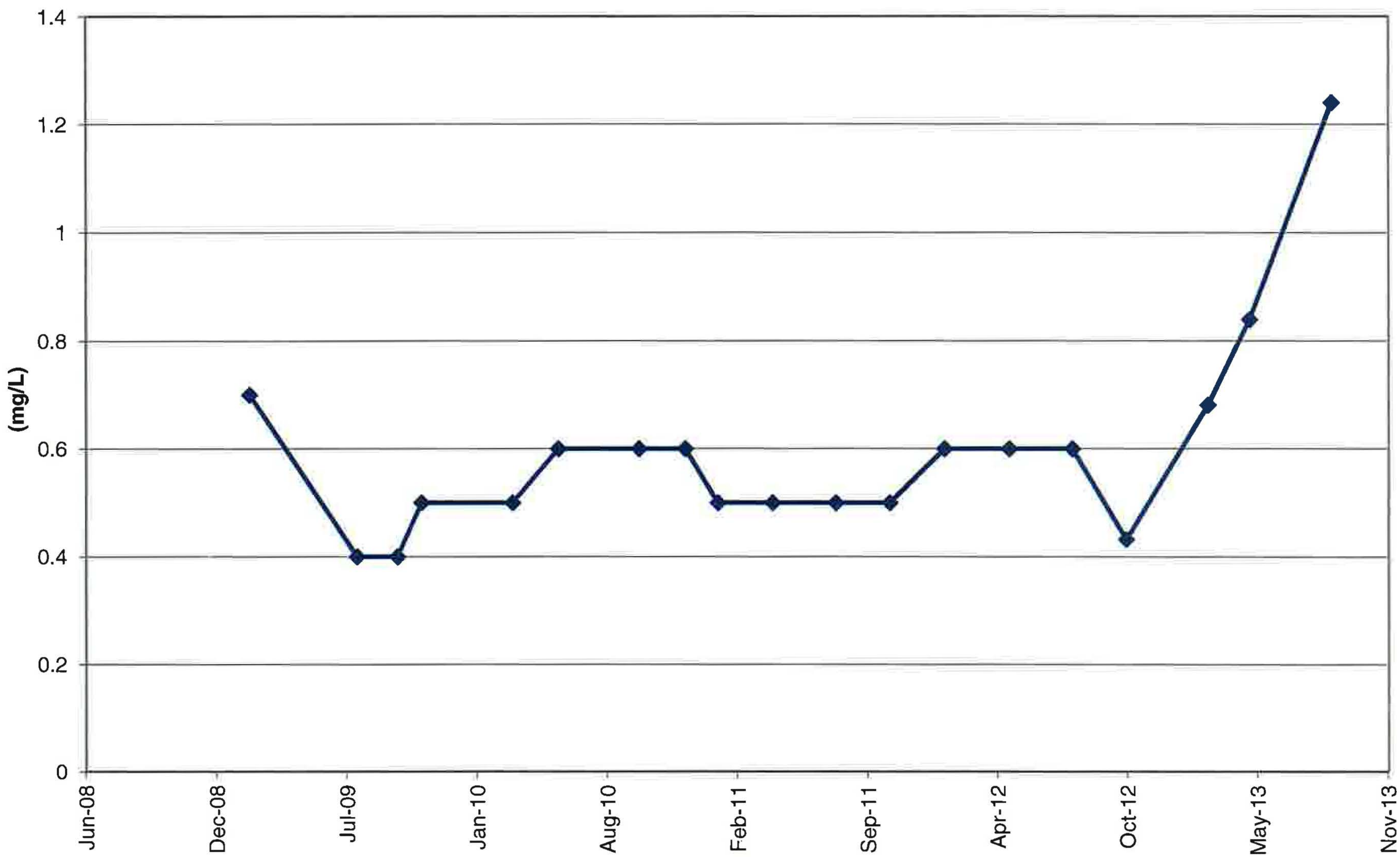
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/18/2012	21.6	1/22/2013	176
7/9/2012	21.0	2/19/2013	174
8/6/2012	21.0	3/19/2013	168
9/18/2012	21.0	4/16/2013	171
10/22/2012	18.0	5/13/2013	169
11/6/2012	23.6	6/24/2013	179
12/18/2012	22.2	7/9/2013	182
1/22/2013	22.8	8/19/2013	183
2/19/2013	19.3	9/17/2013	193
3/19/2013	19.1		
4/16/2013	18.8		
5/13/2013	23.8		
6/24/2013	20.0		
7/9/2013	21.7		
8/19/2013	16.0		
9/17/2013	21.2		

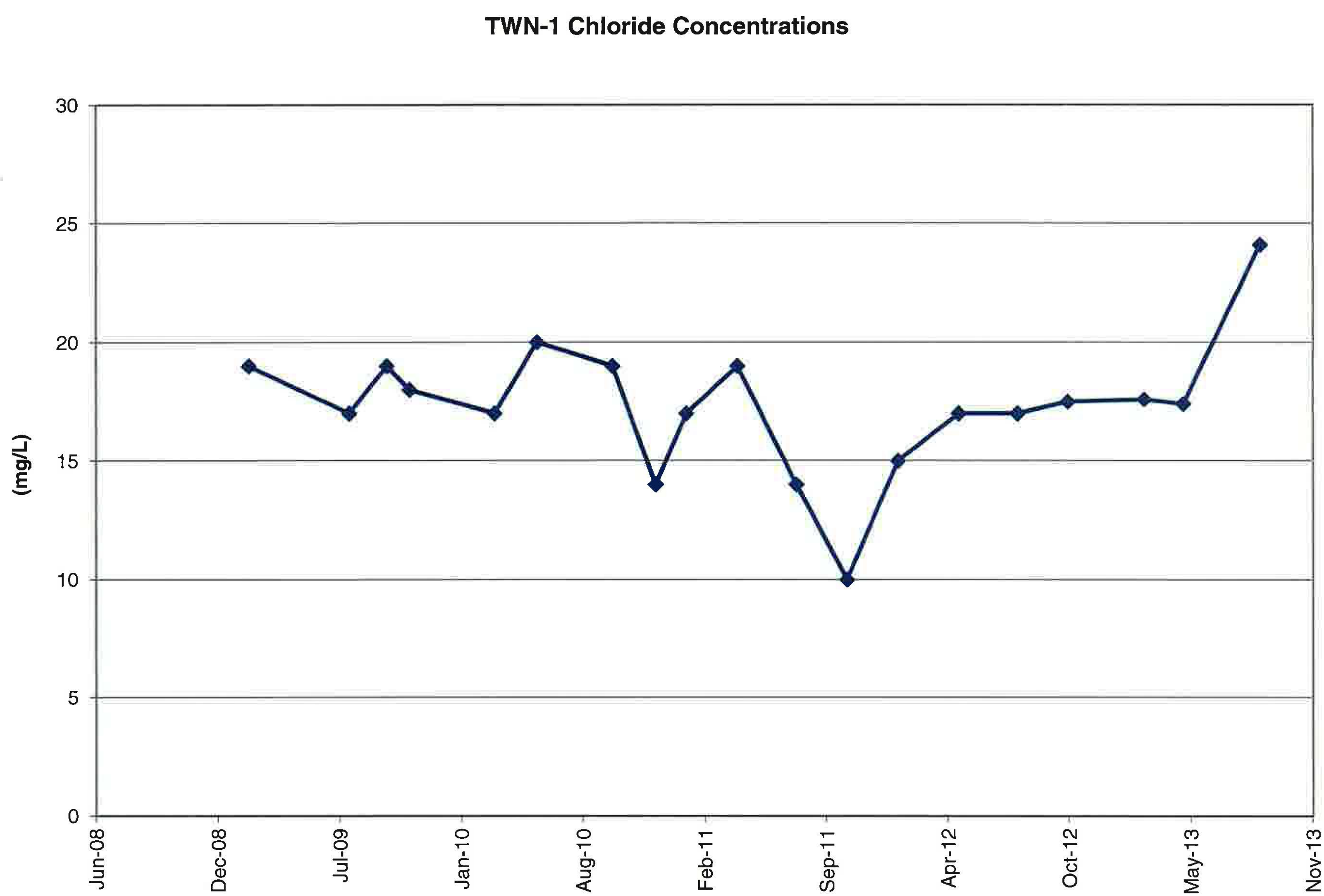
Under the groundwater sampling progran, accelerated monitoring for nitrate began in MW-31 prior to when the accelerated monitoring for chloride began. This difference accounts for the different number of data points represented above.

Tab K

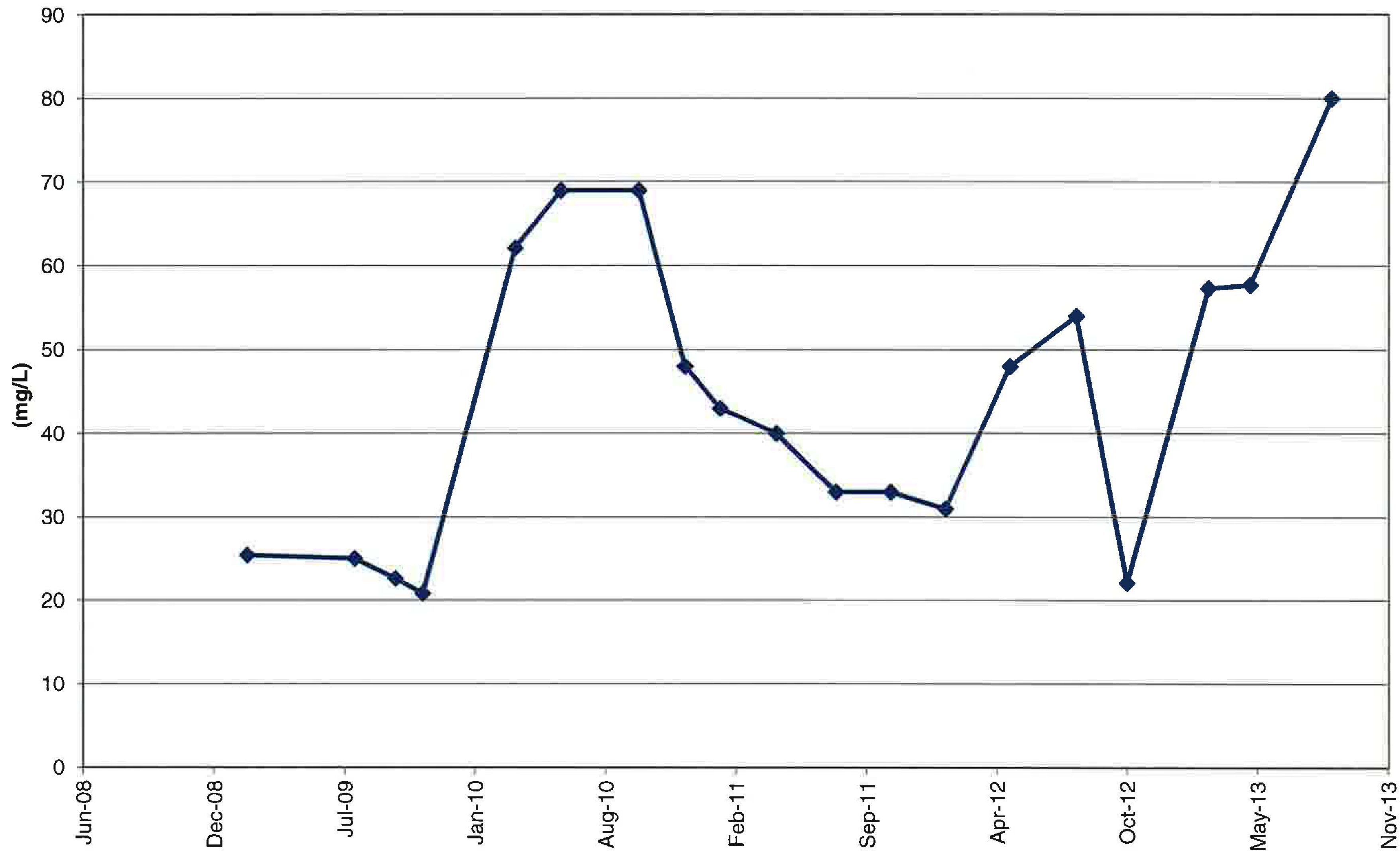
Concentration Trend Graphs

TWN-1 Nitrate Concentrations

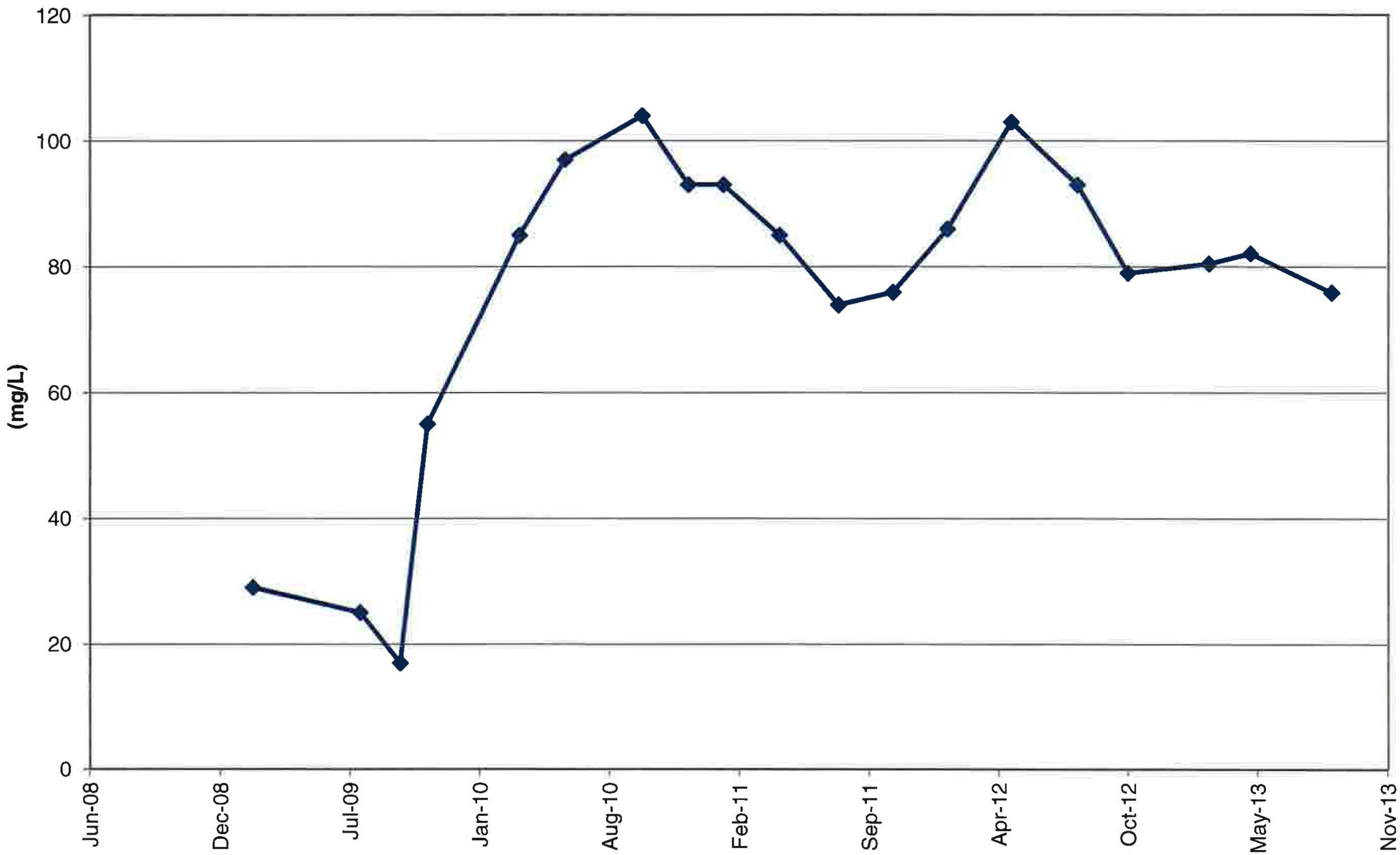



TWN-1 Chloride Concentrations
(mg/L)
30
25
20
15
10
5
0
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13
Nov-13

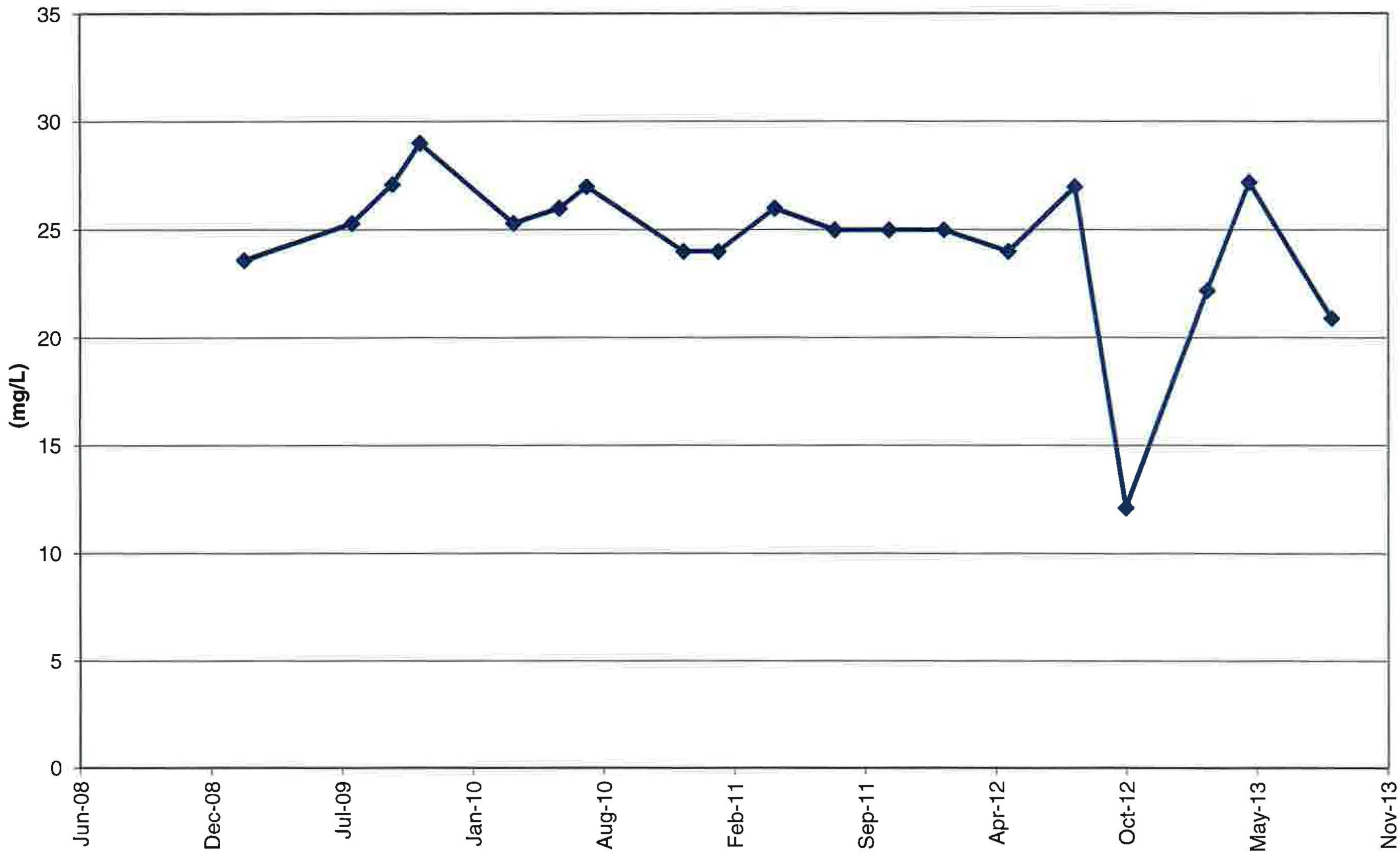
TWN-2 Nitrate Concentrations



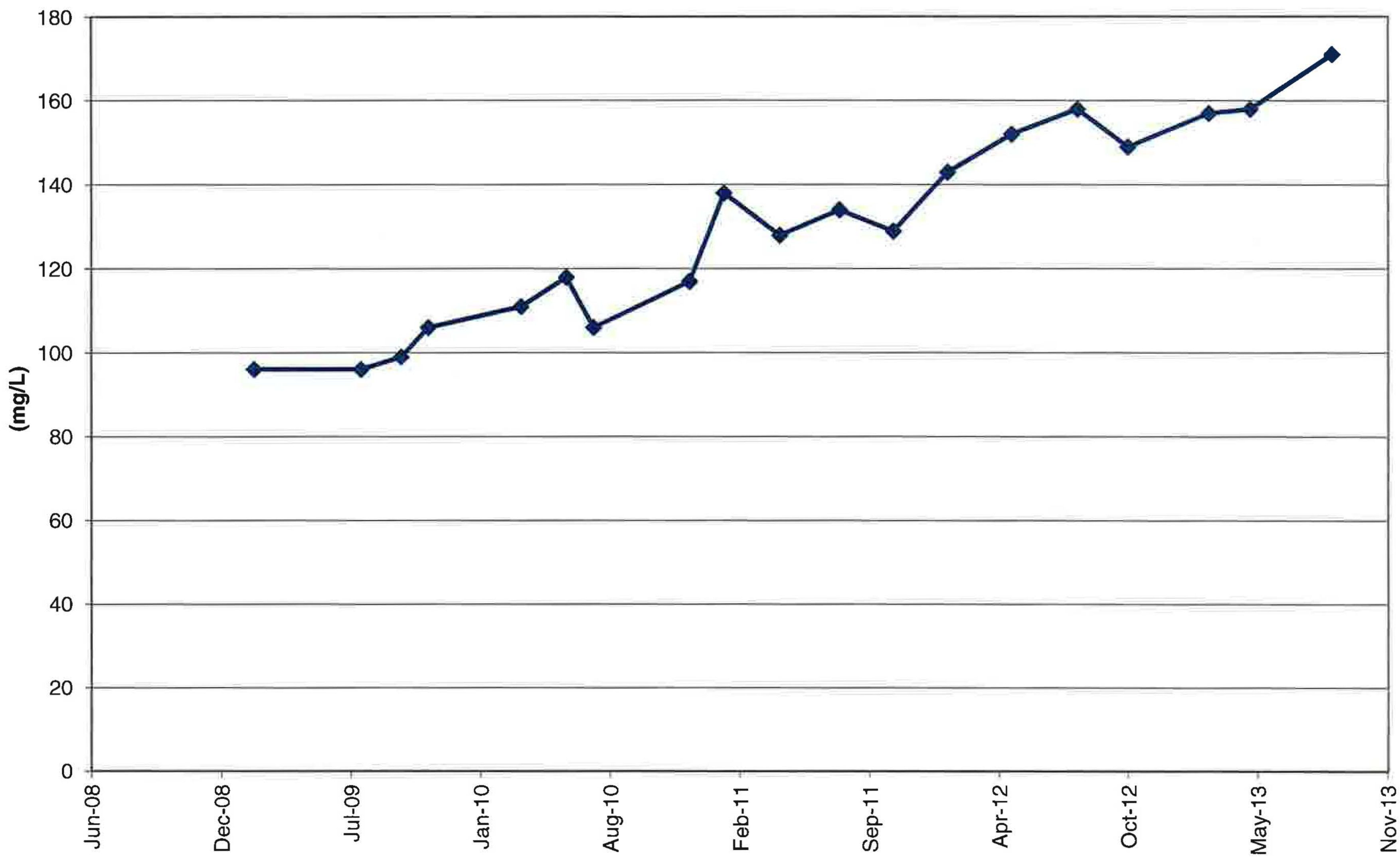
TWN-2 Chloride Concentrations



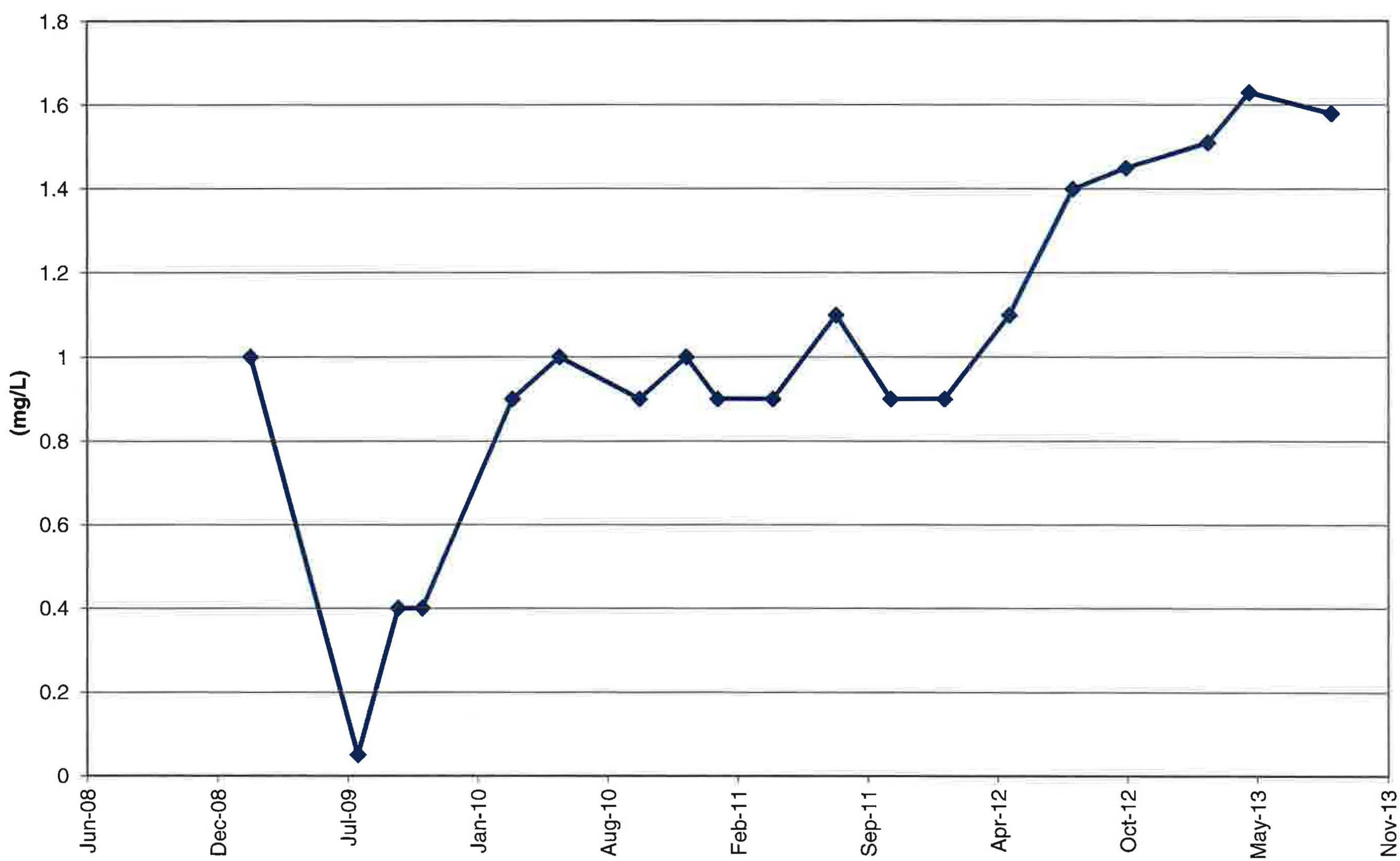
TWN-3 Nitrate Concentrations



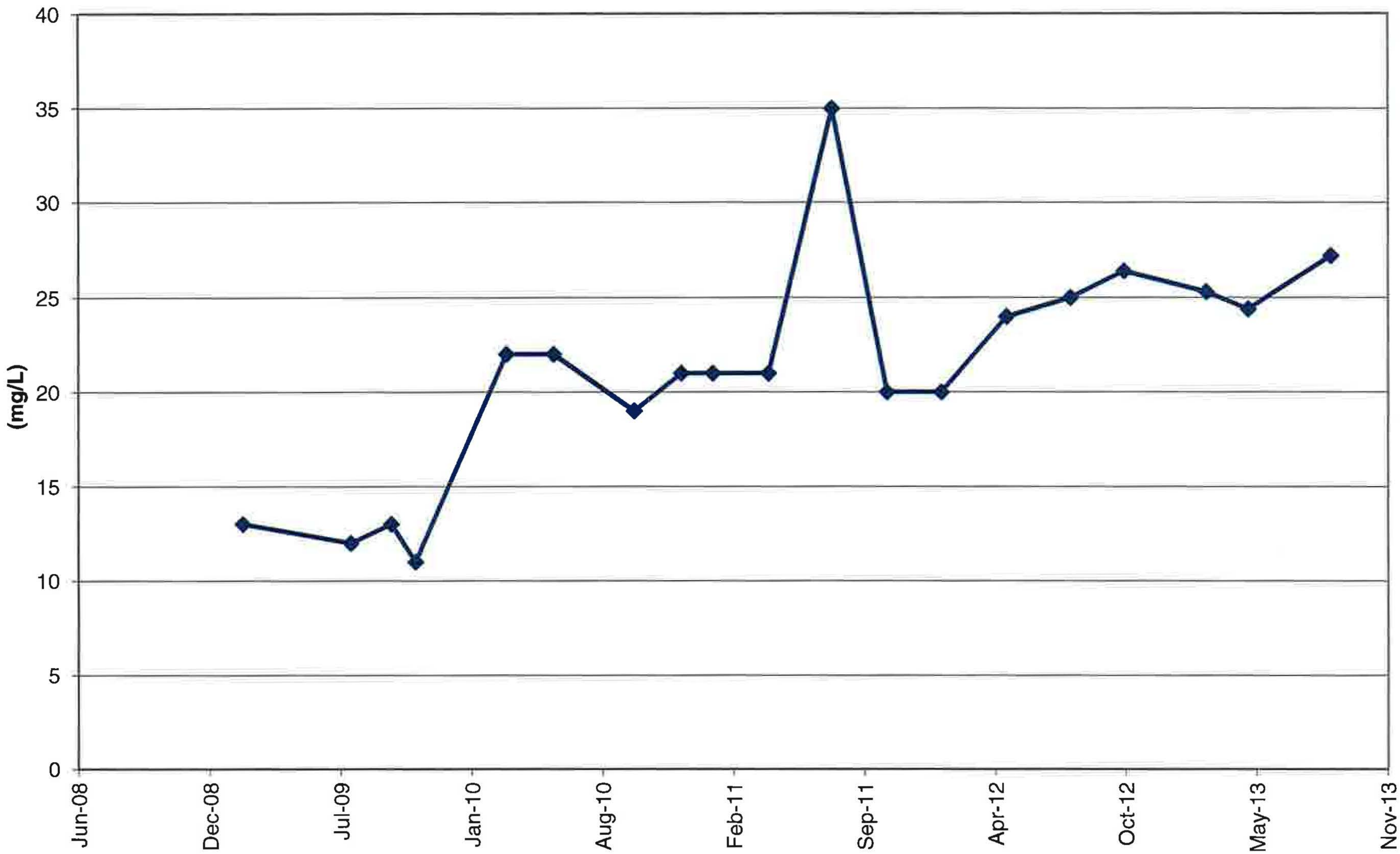
TWN-3 Chloride Concentrations



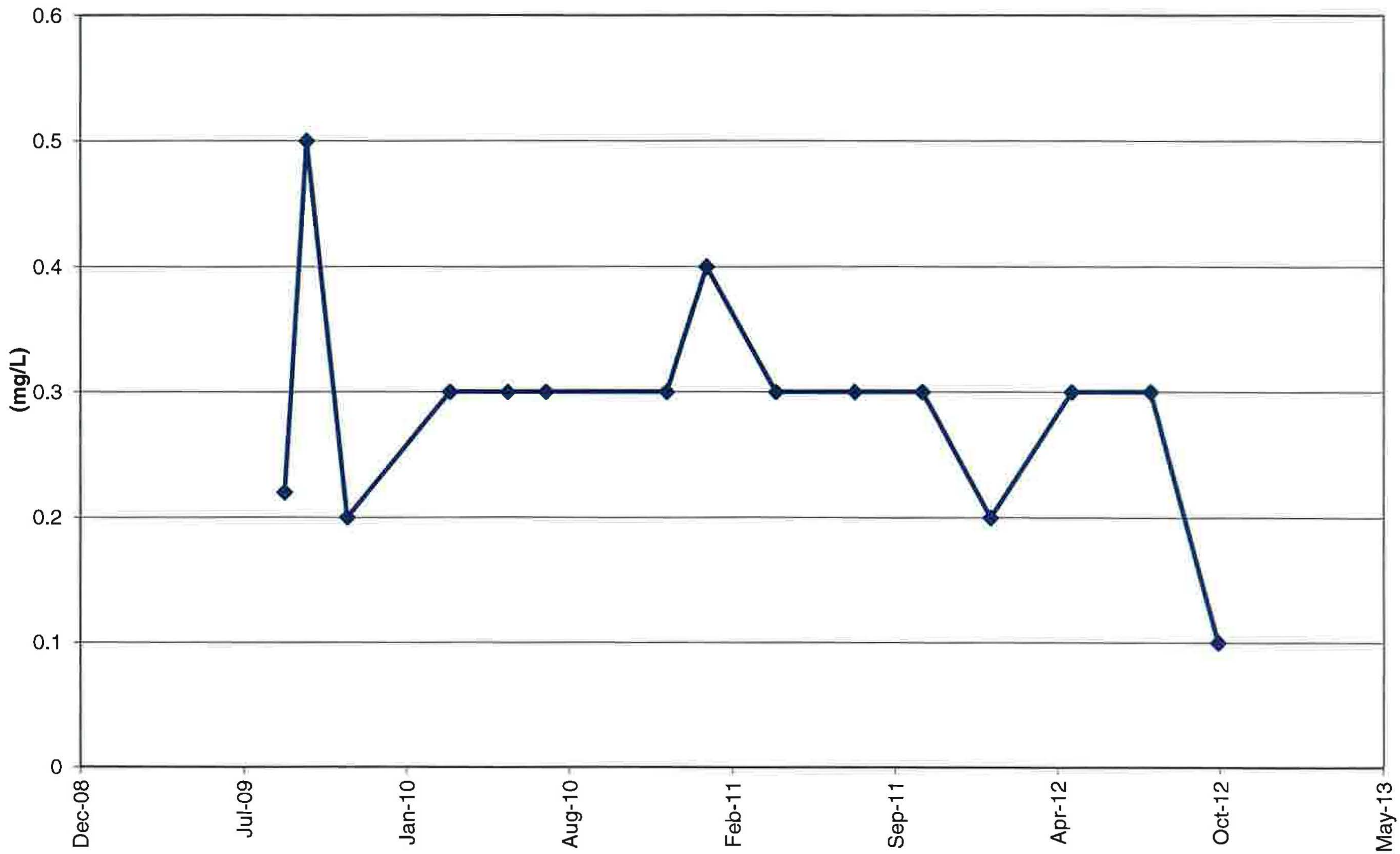
TWN-4 Nitrate Concentrations



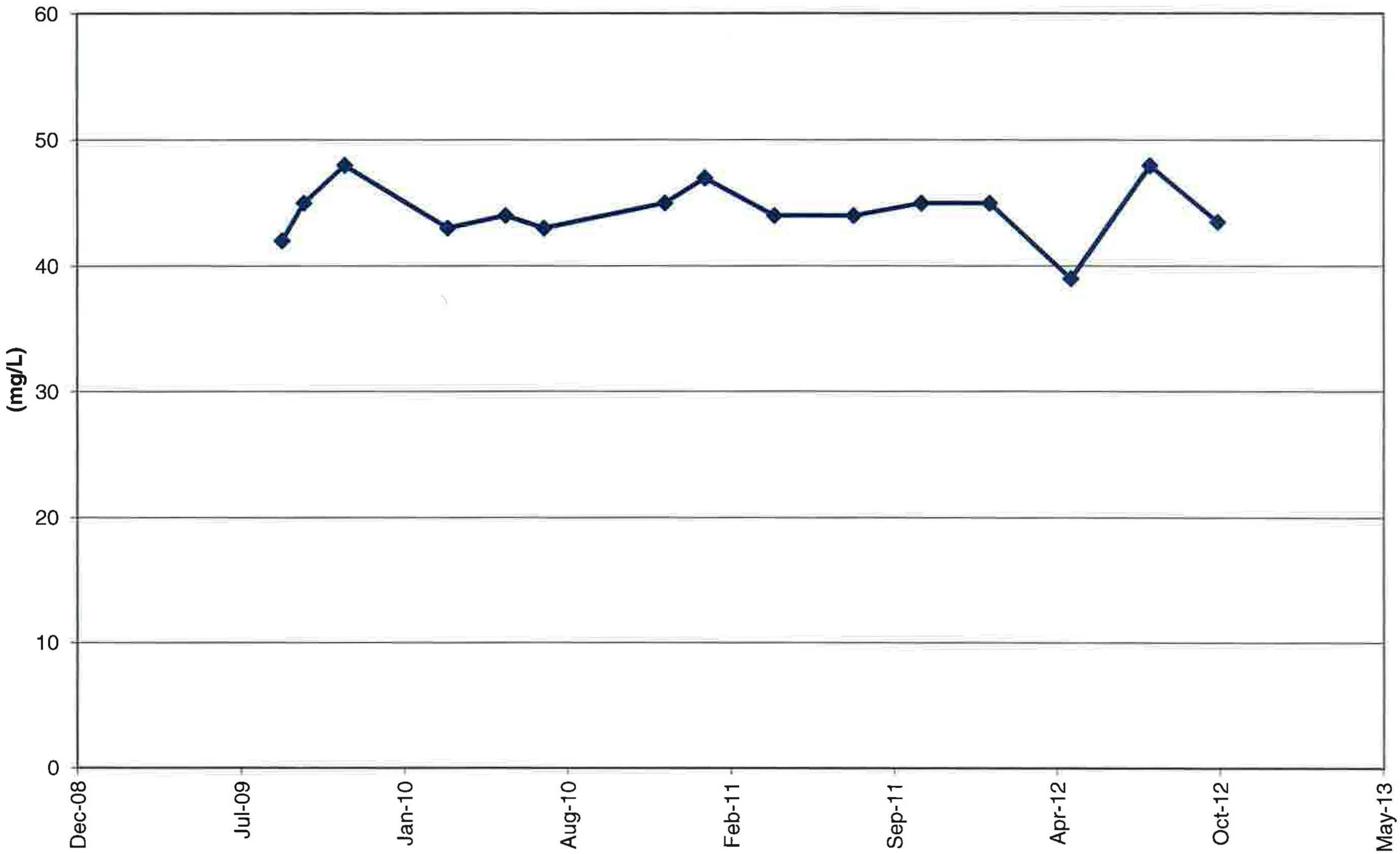
TWN-4 Chloride Concentrations



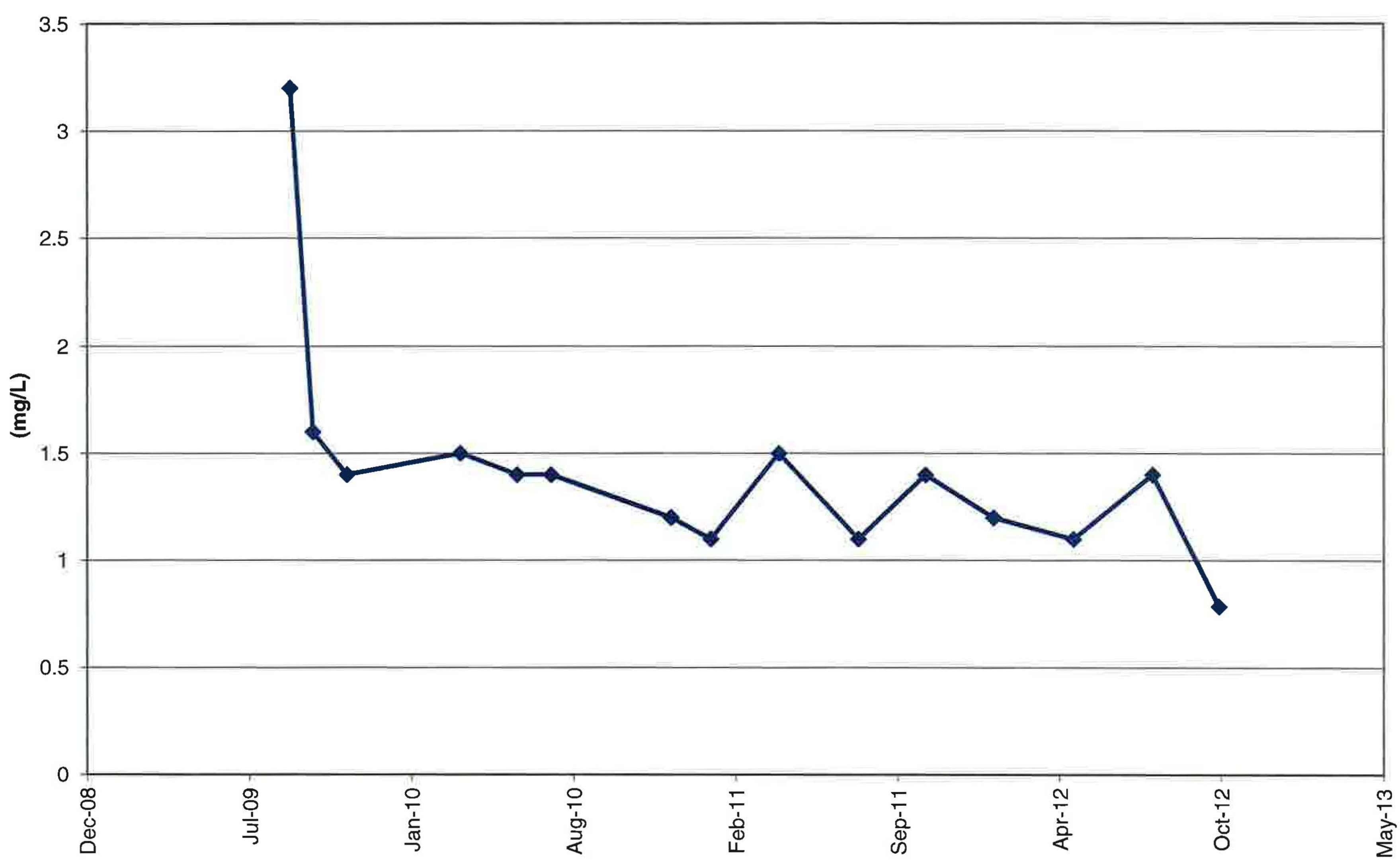
TWN-5 Nitrate Concentrations



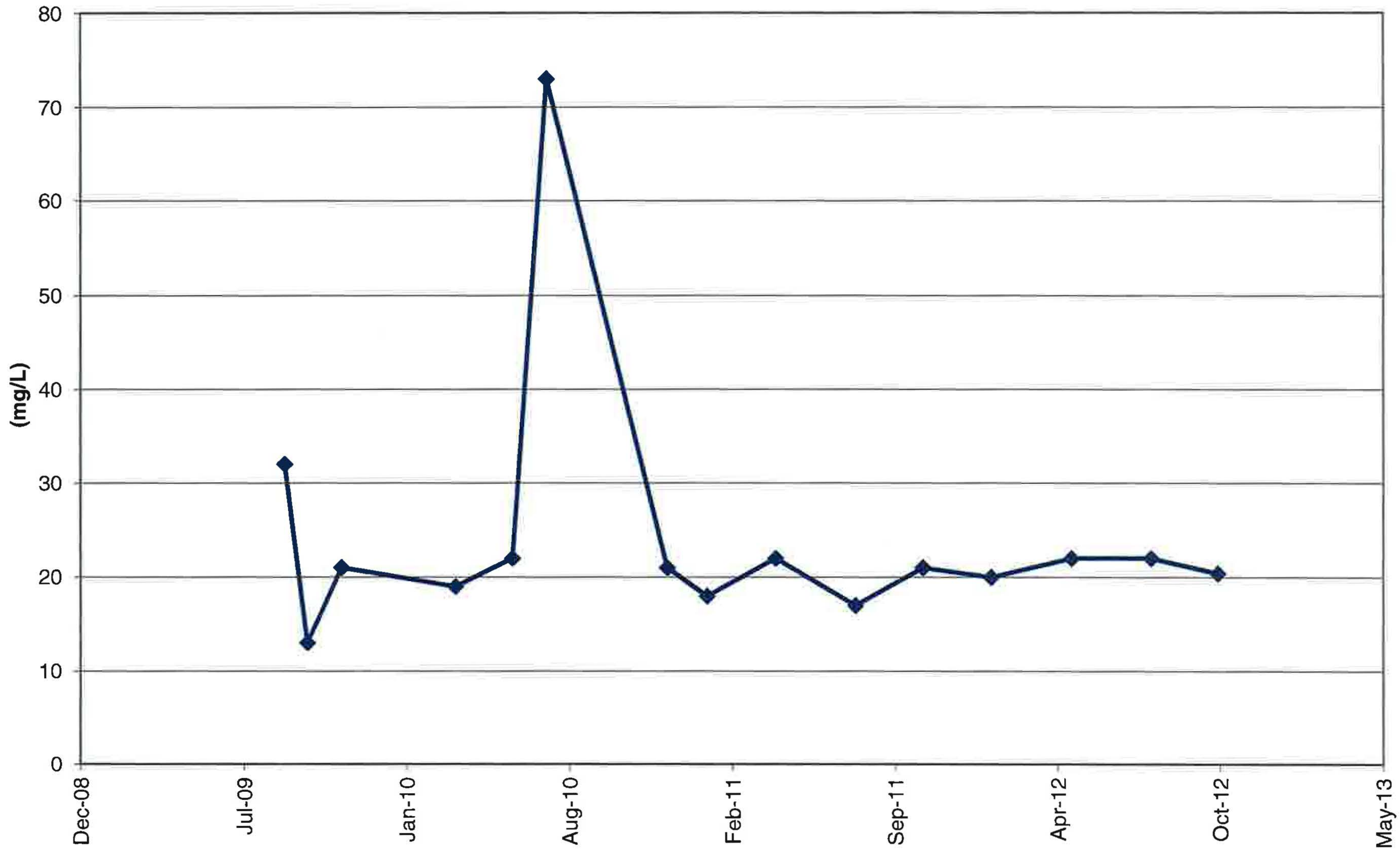
TWN-5 Chloride Concentrations



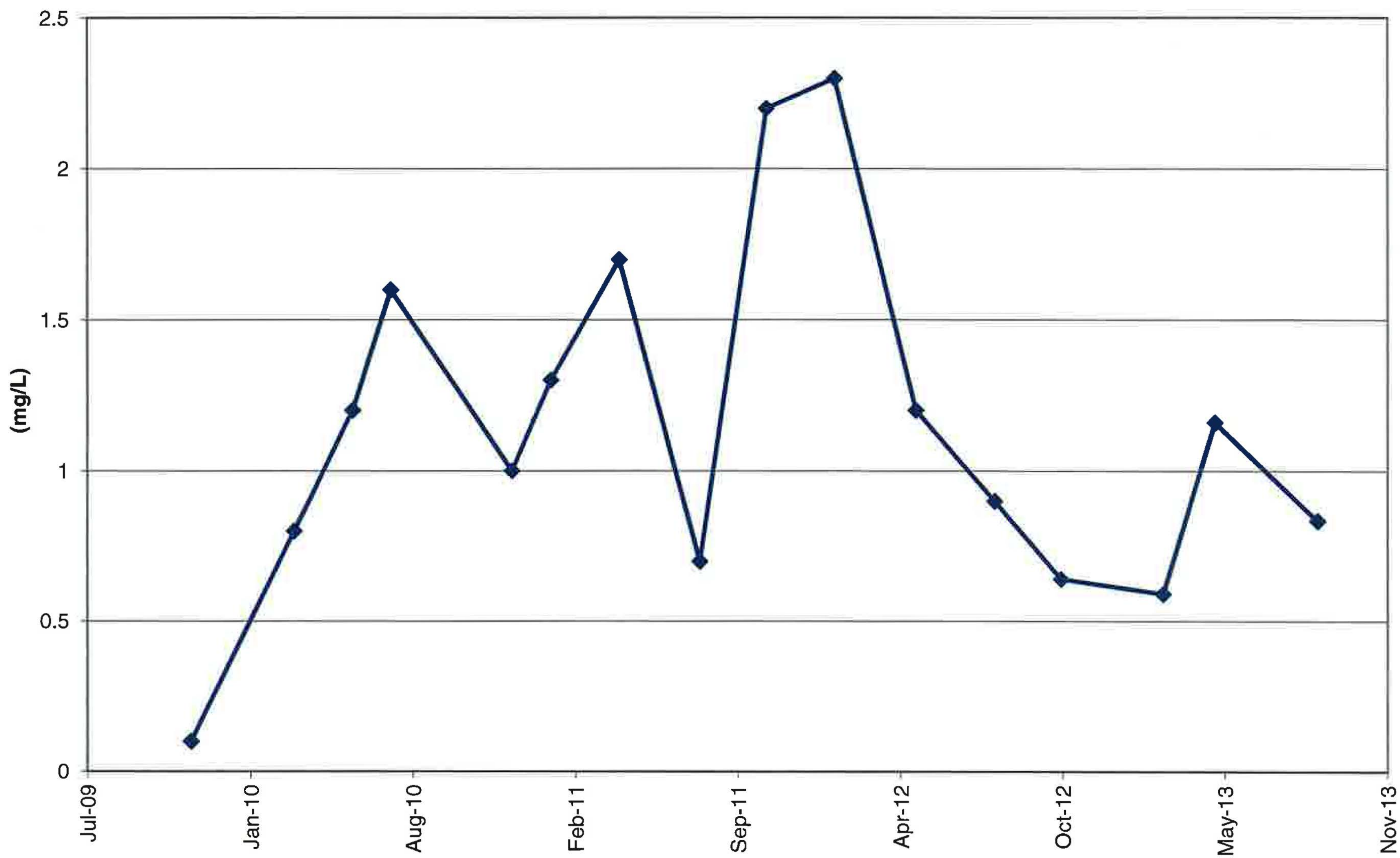
TWN-6 Nitrate Concentrations



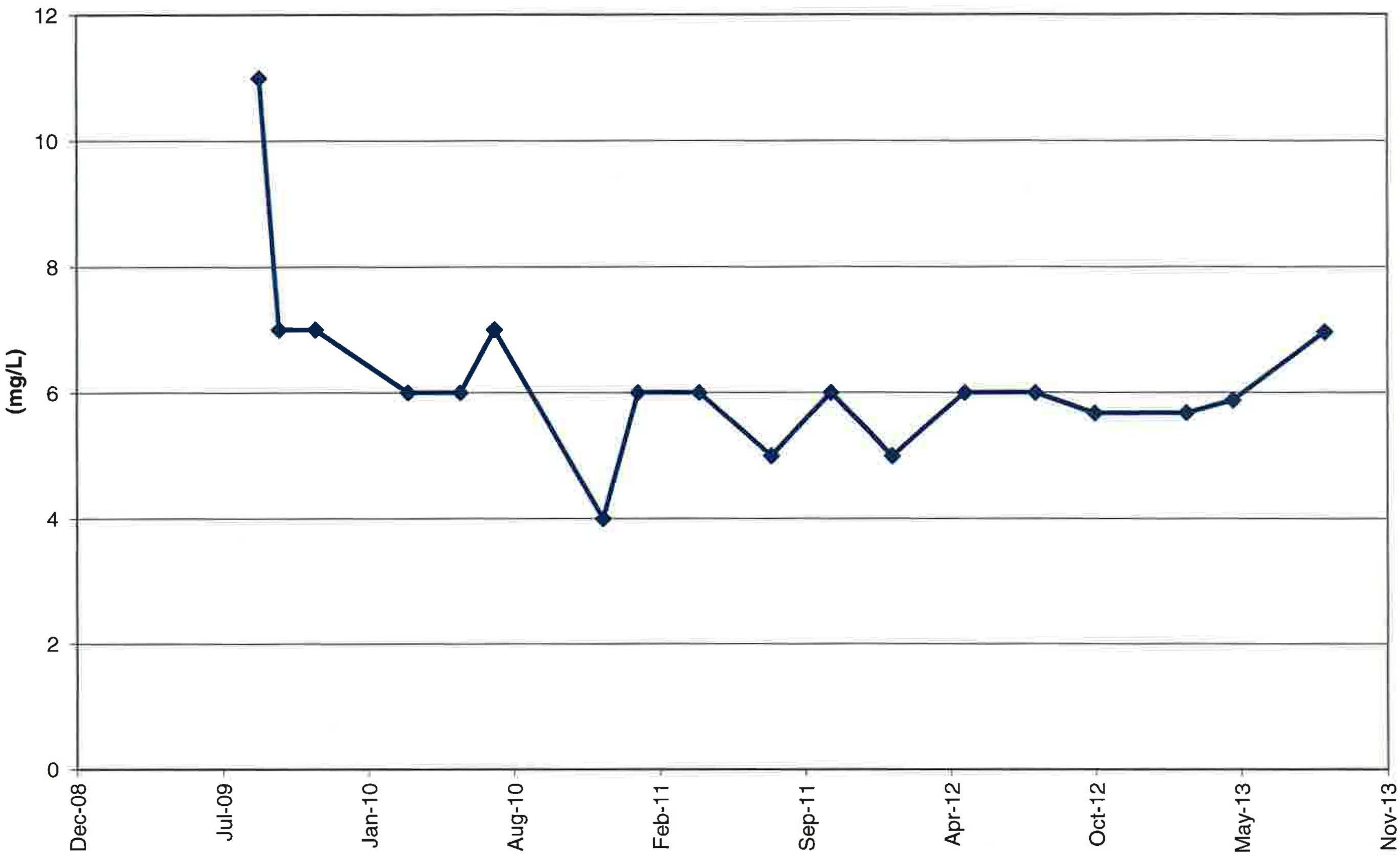
TWN-6 Chloride Concentrations



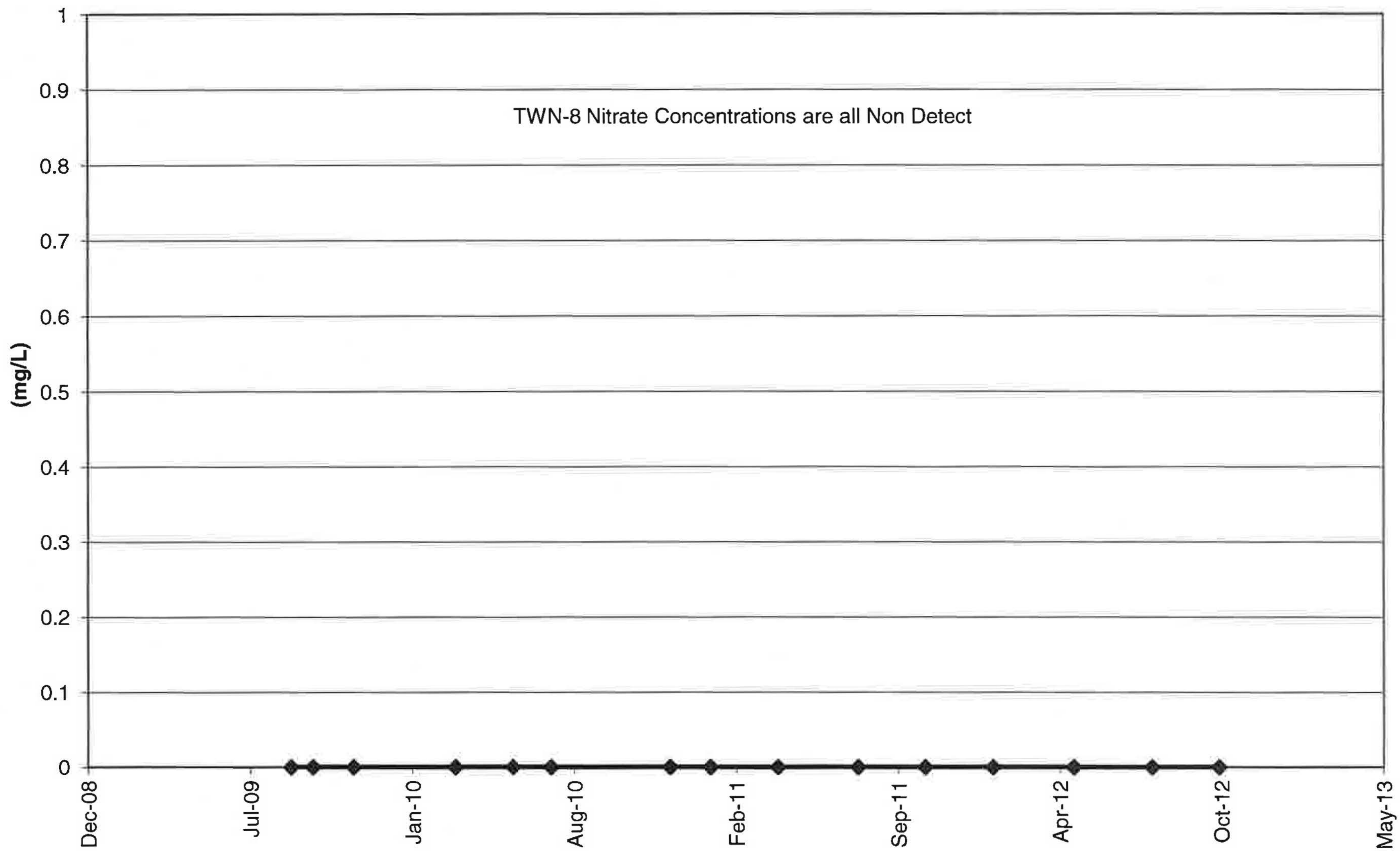
TWN-7 Nitrate Concentrations



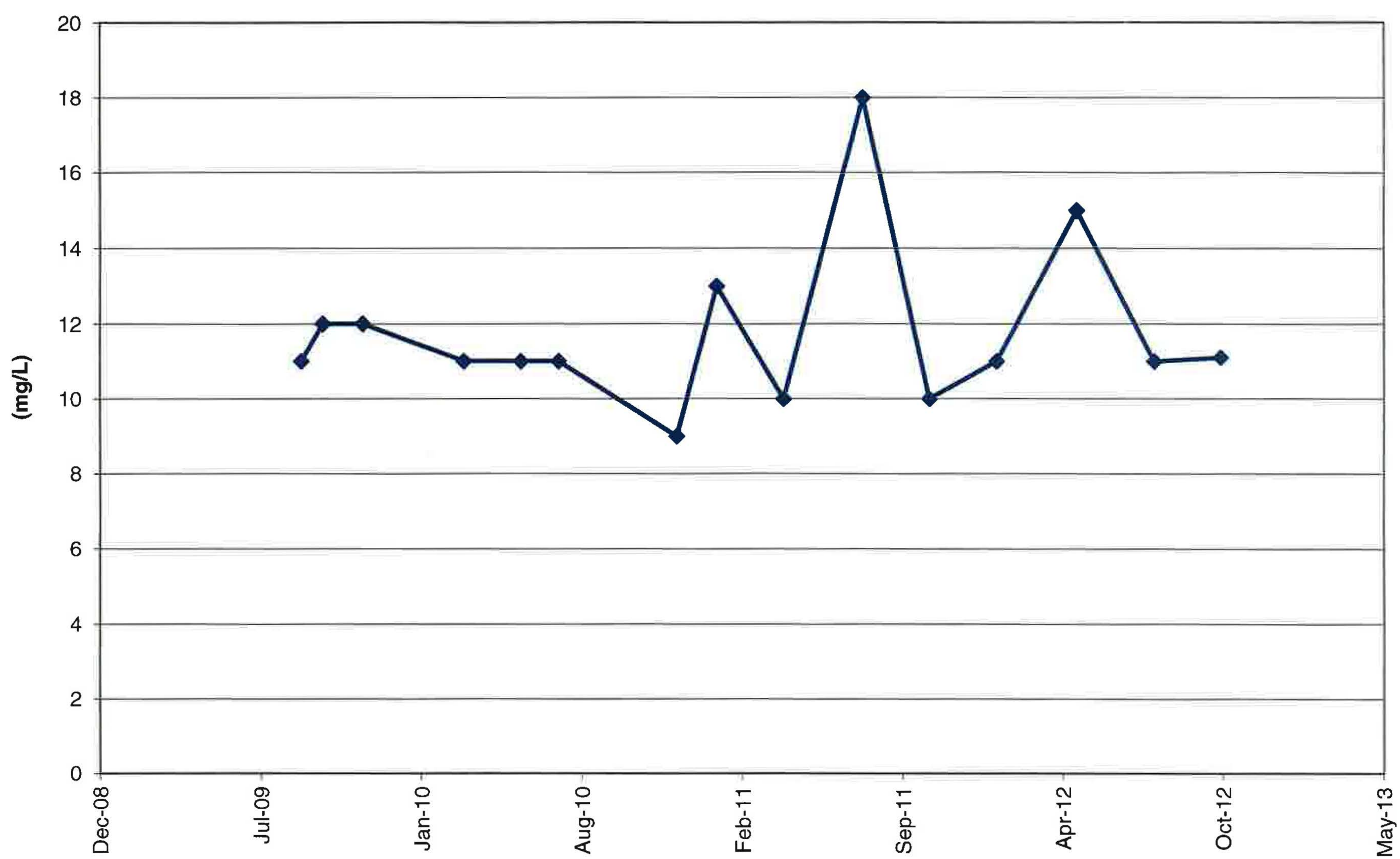
TWN-7 Chloride Concentrations



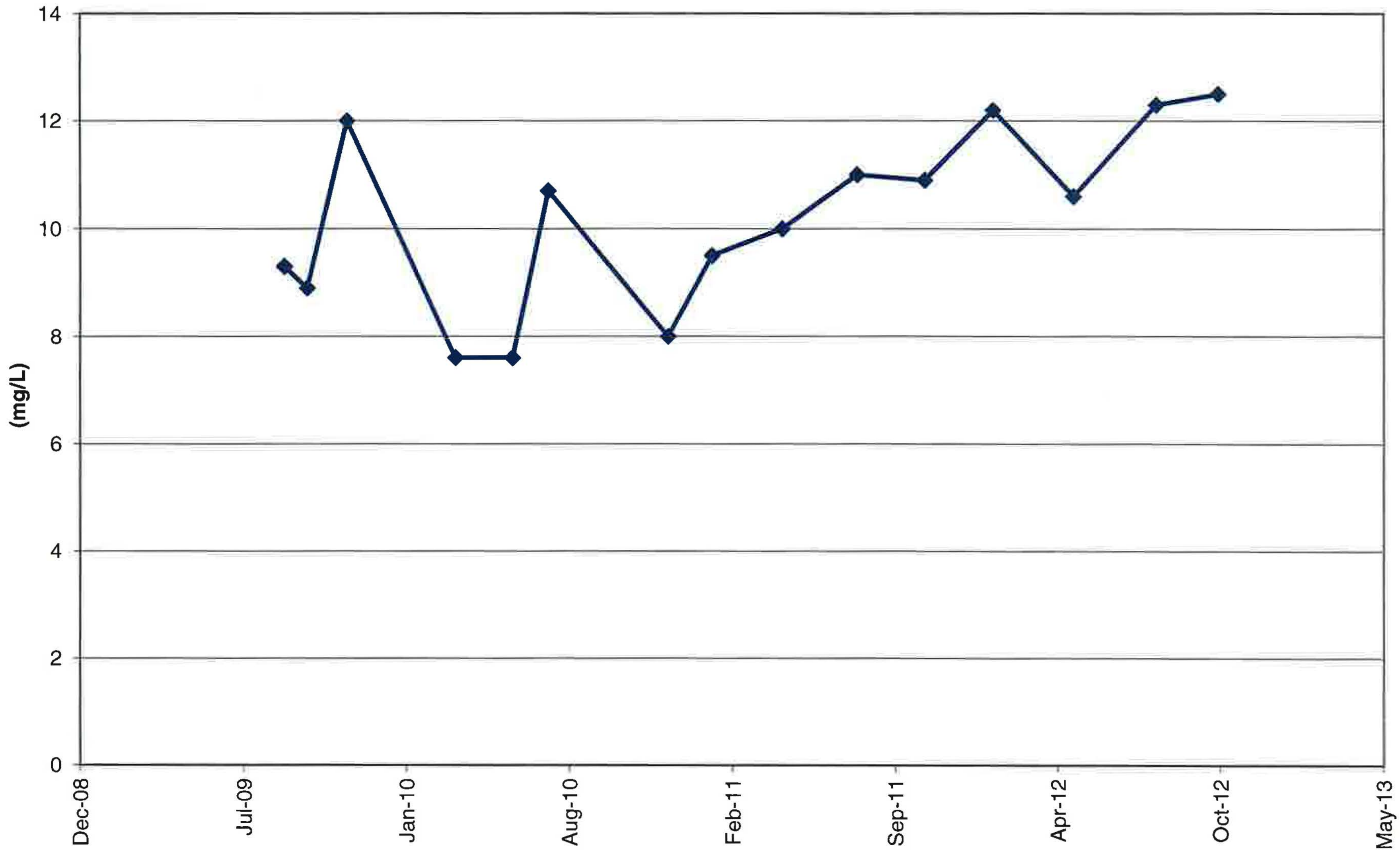
TWN-8 Nitrate Concentrations



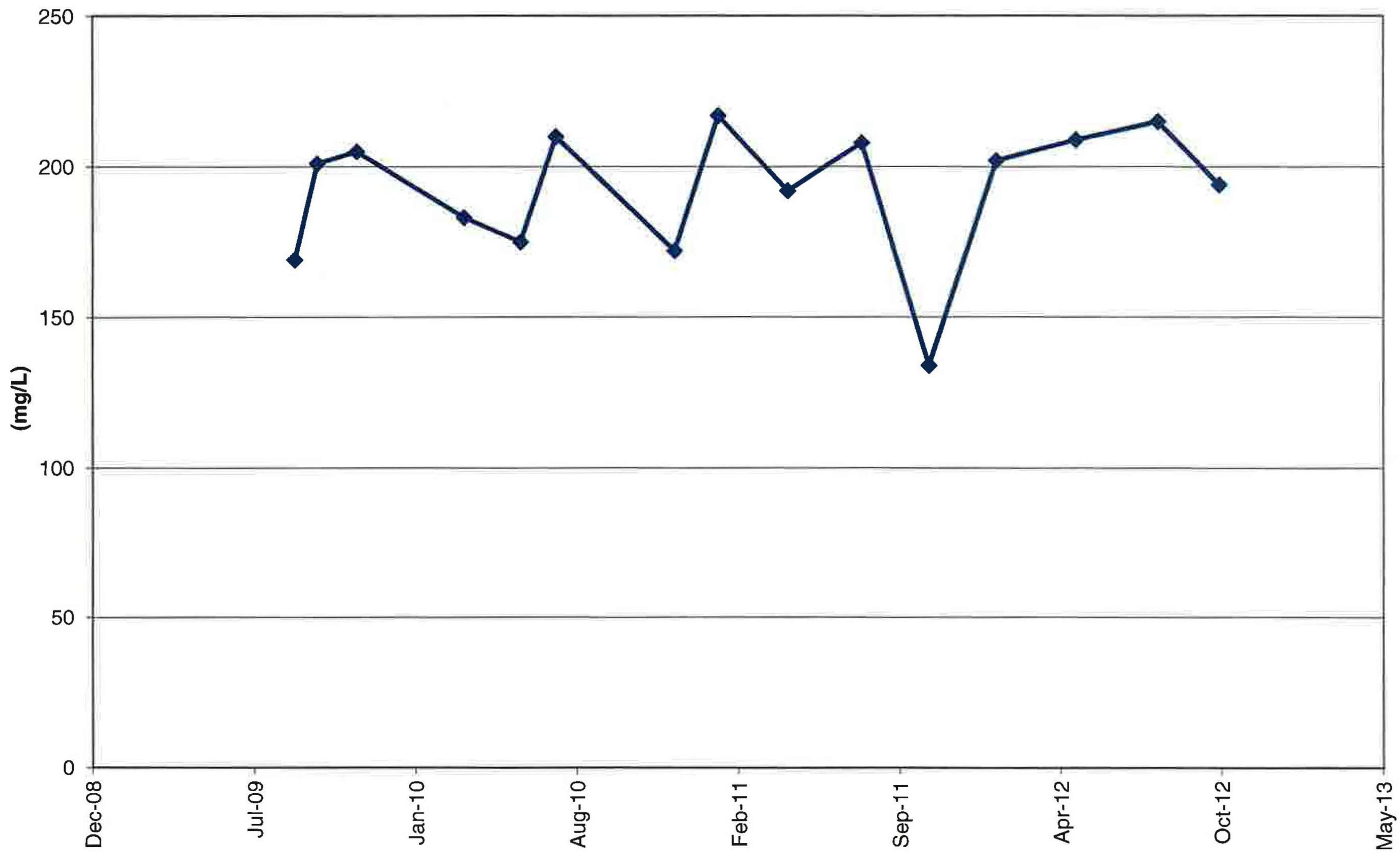
TWN-8 Chloride Concentrations



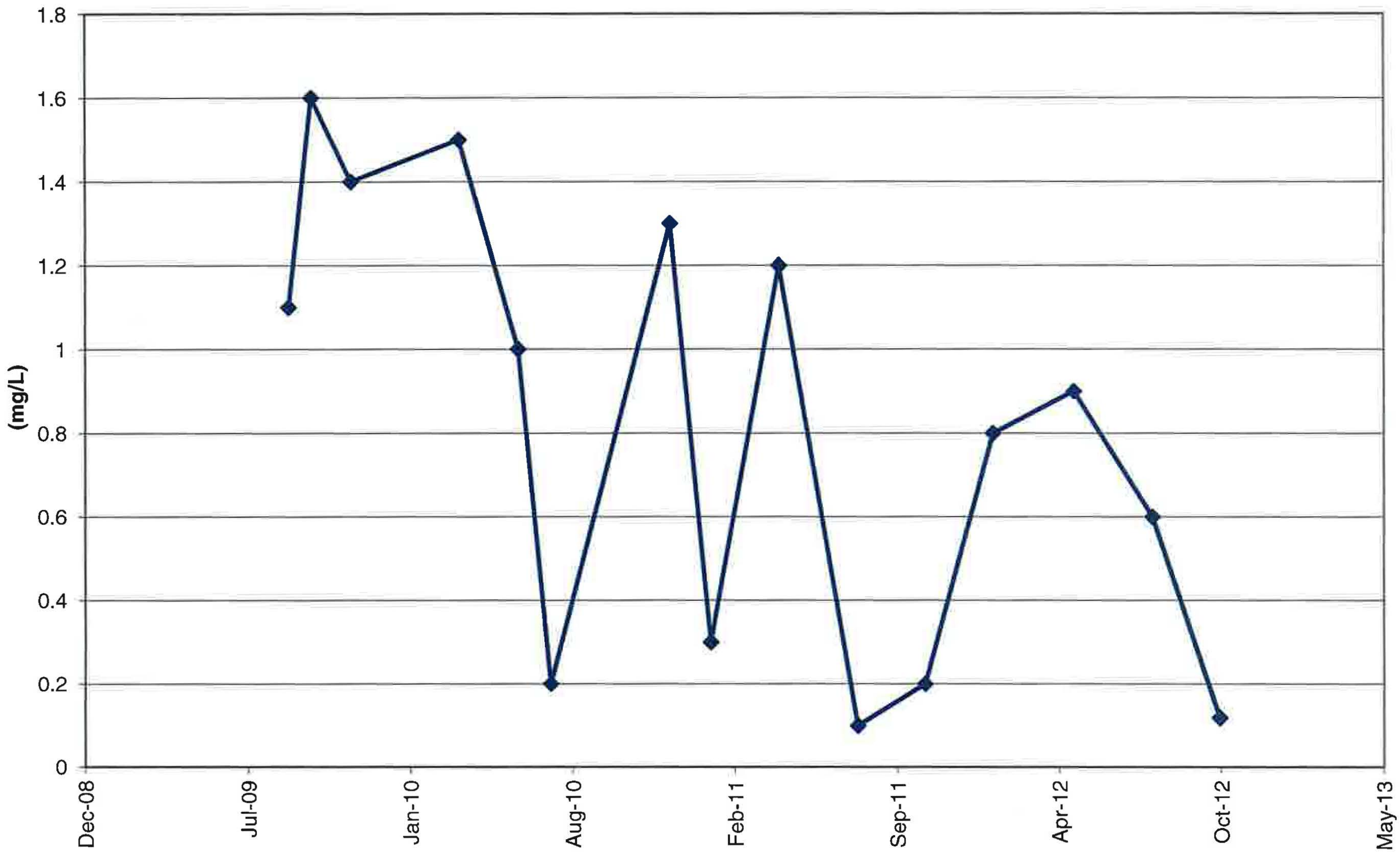
TWN-9 Nitrate Concentrations



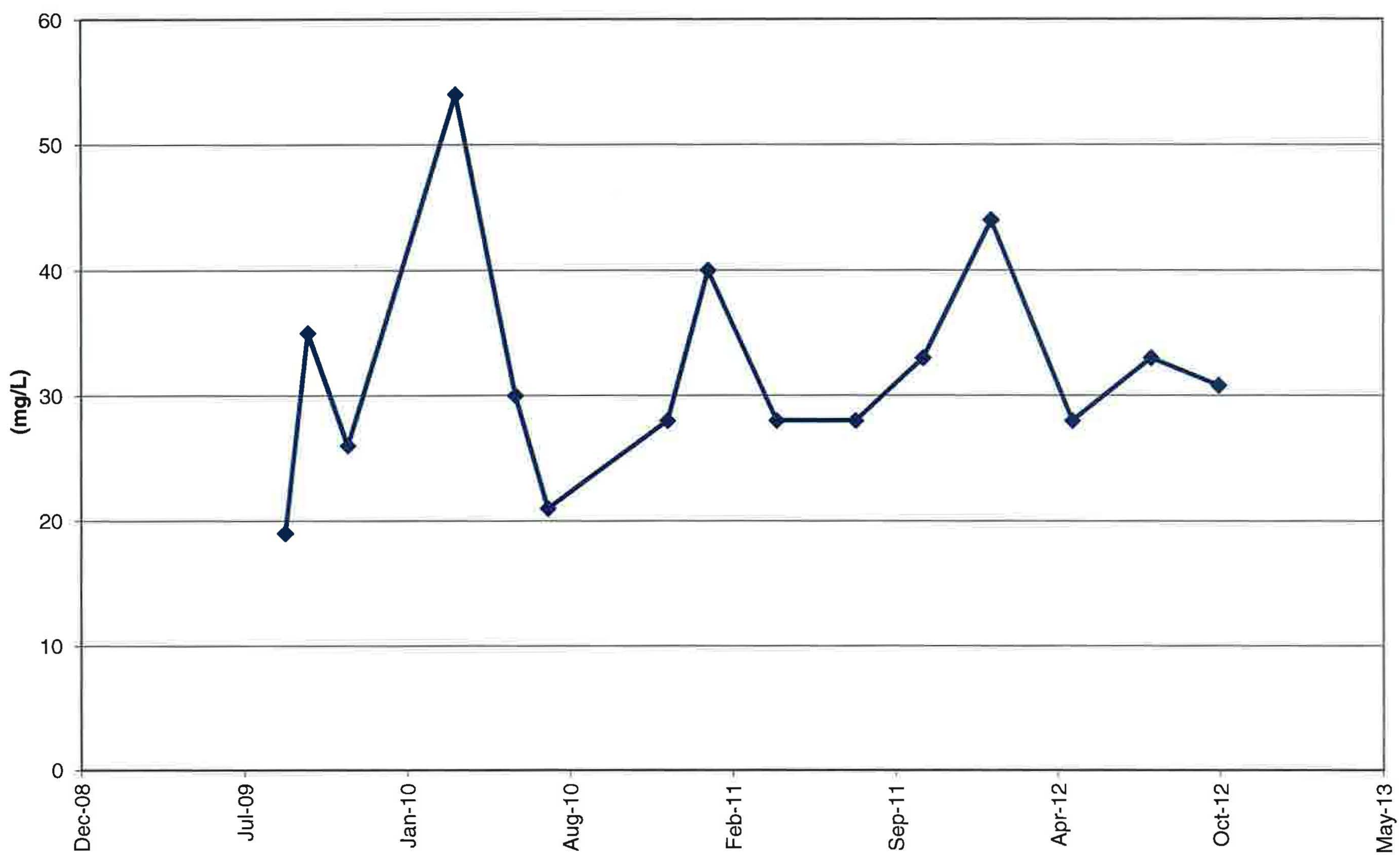
TWN-9 Chloride Concentrations



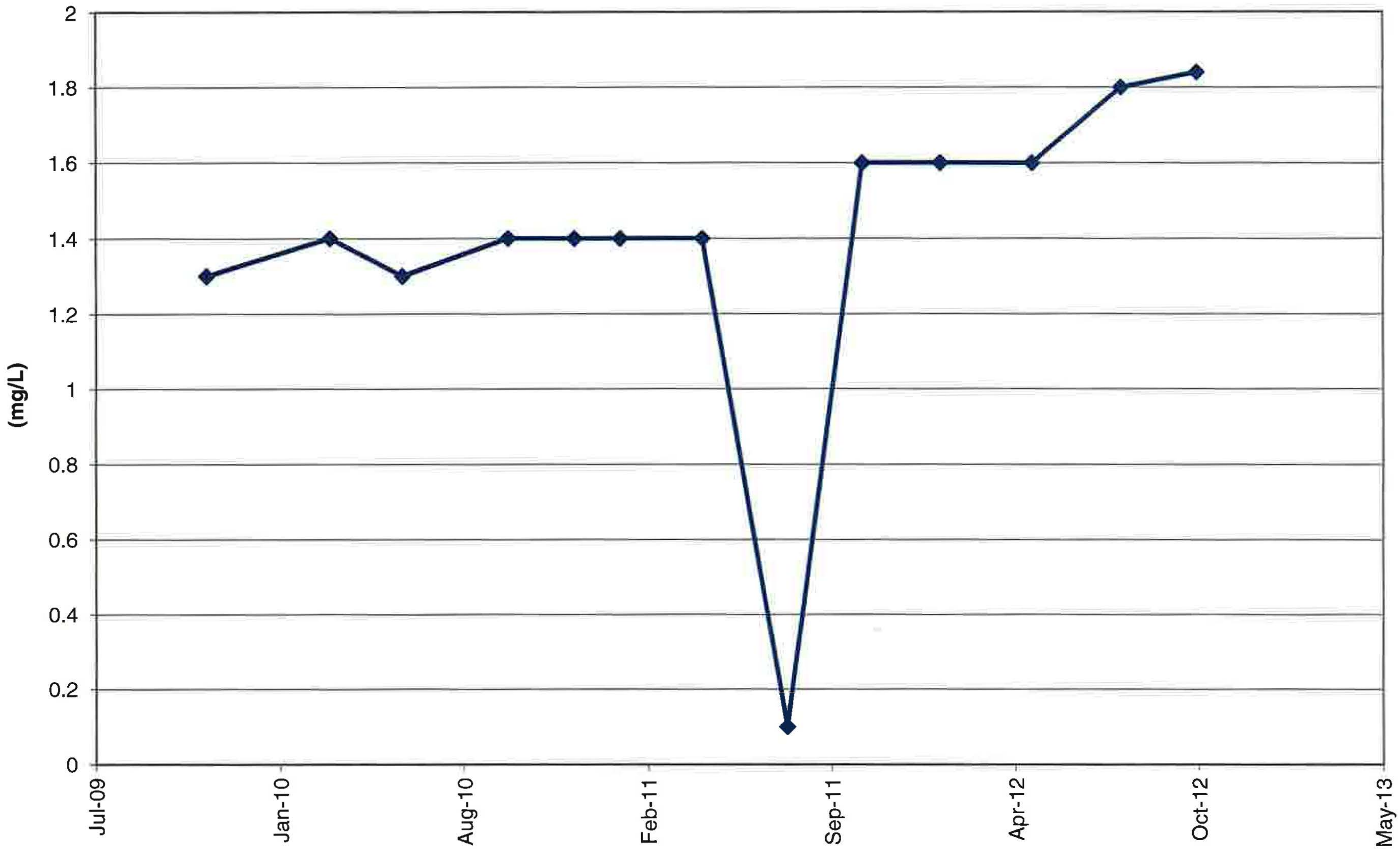
TWN-10 Nitrate Concentrations



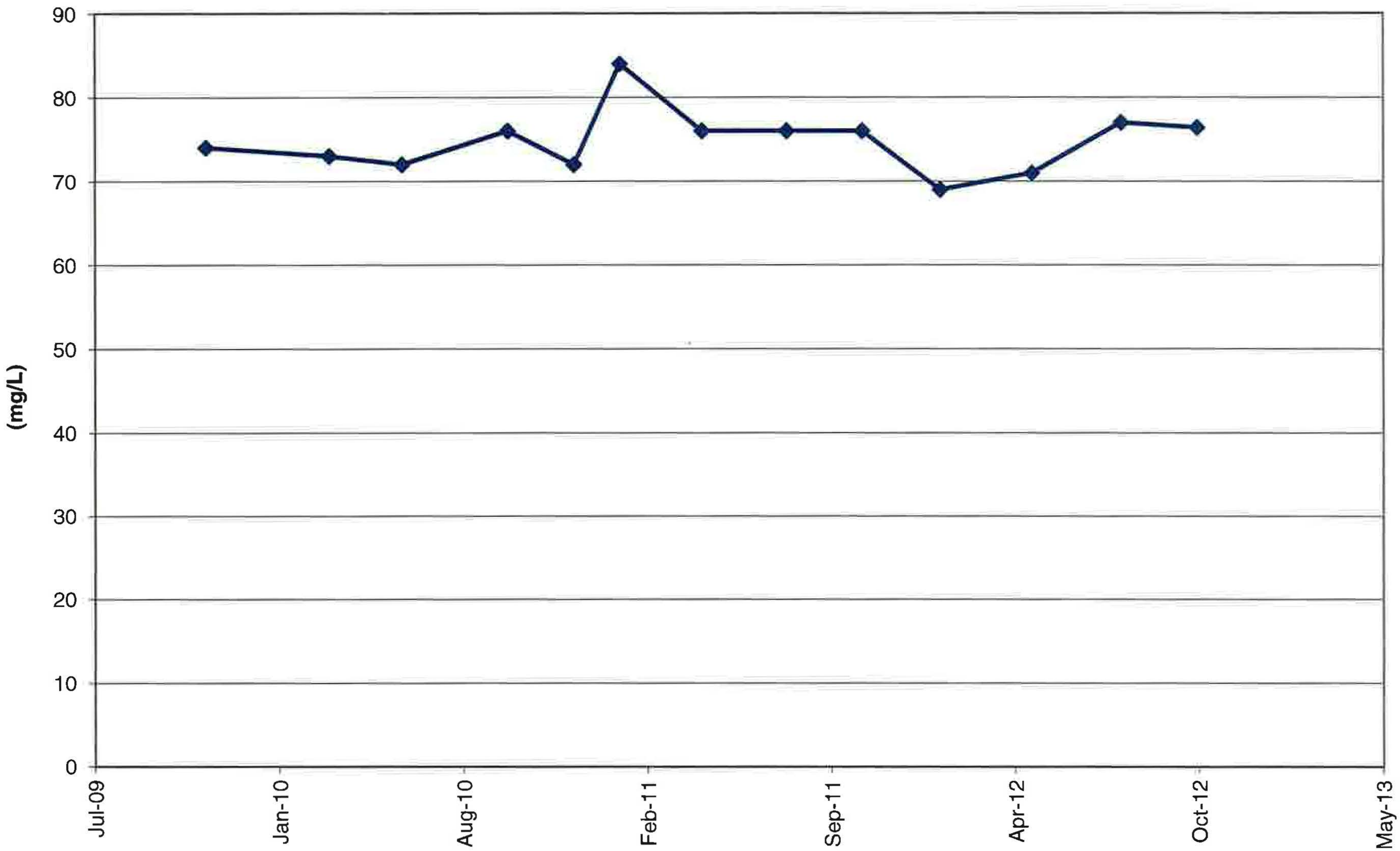
TWN-10 Chloride Concentrations

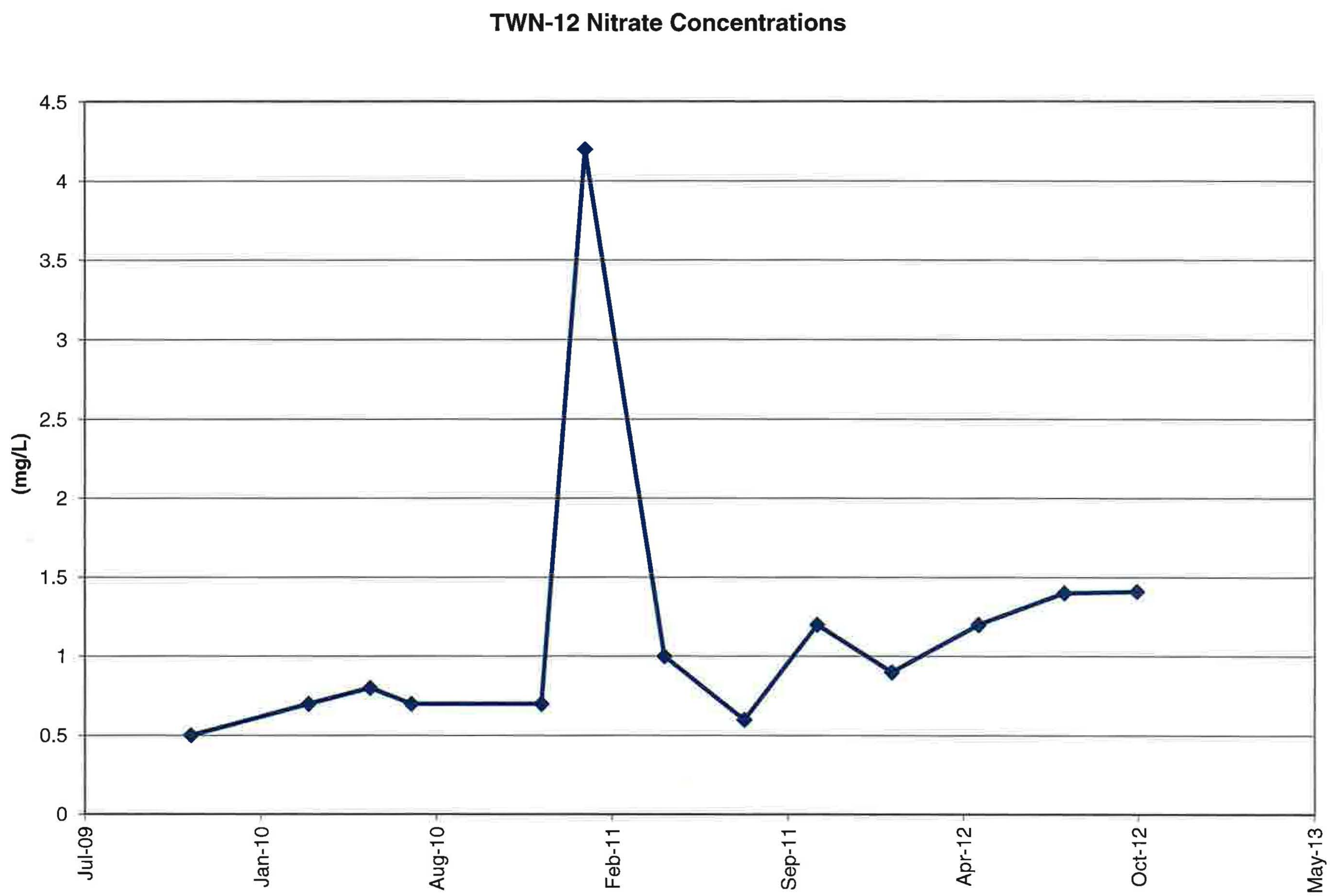


TWN-11 Nitrate Concentrations



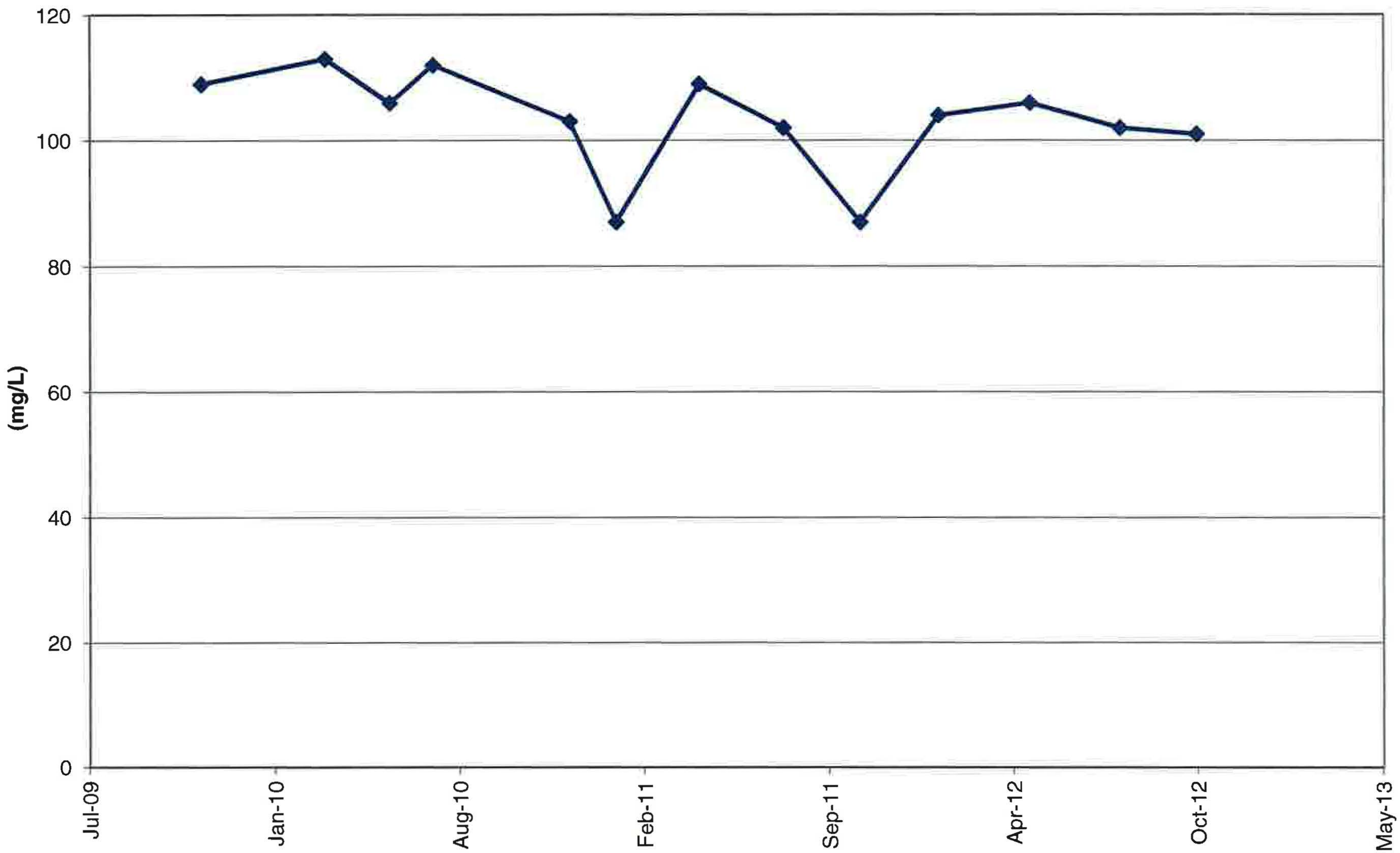
TWN-11 Chloride Concentrations



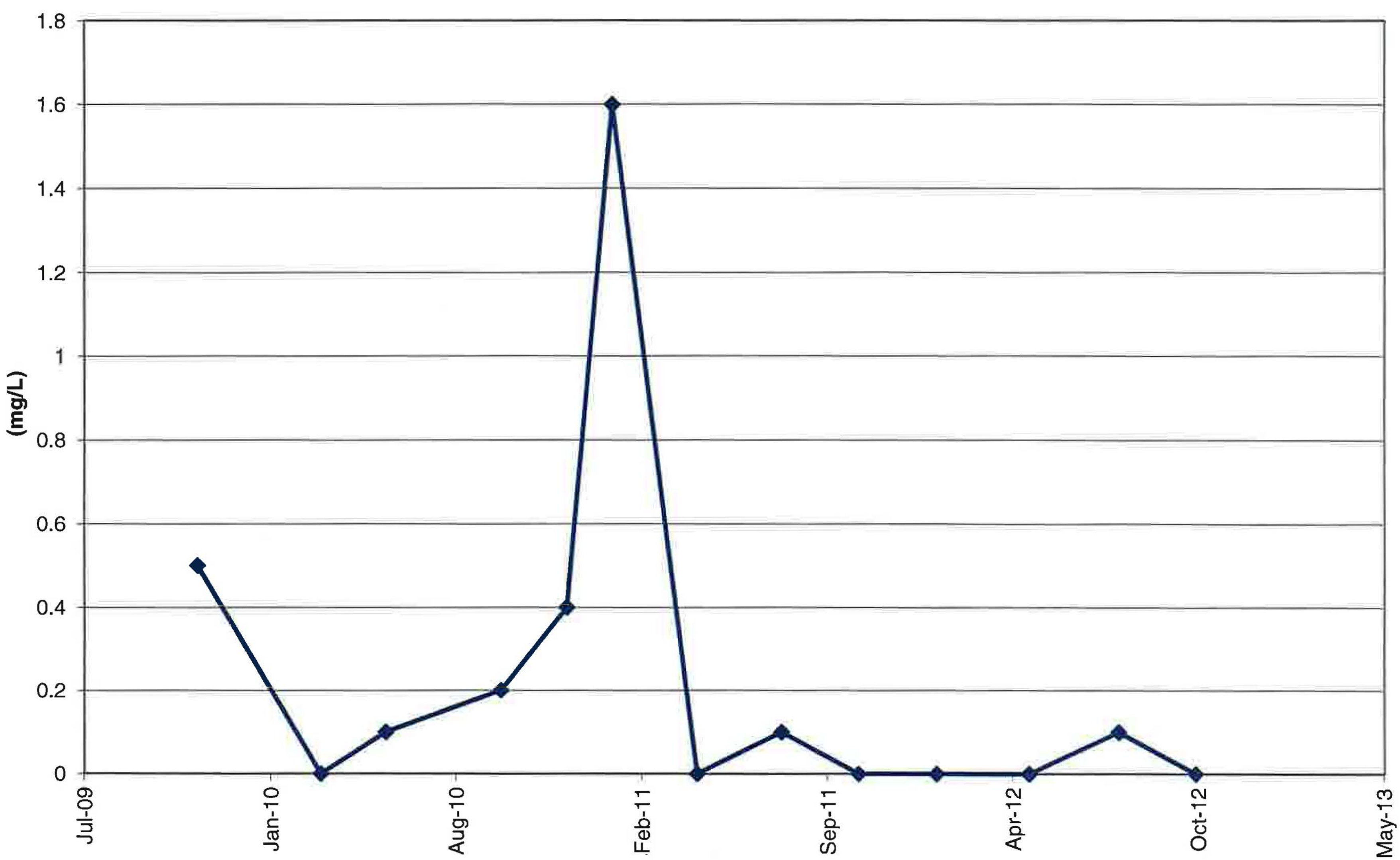


TWN-12 Nitrate Concentrations
(mg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13

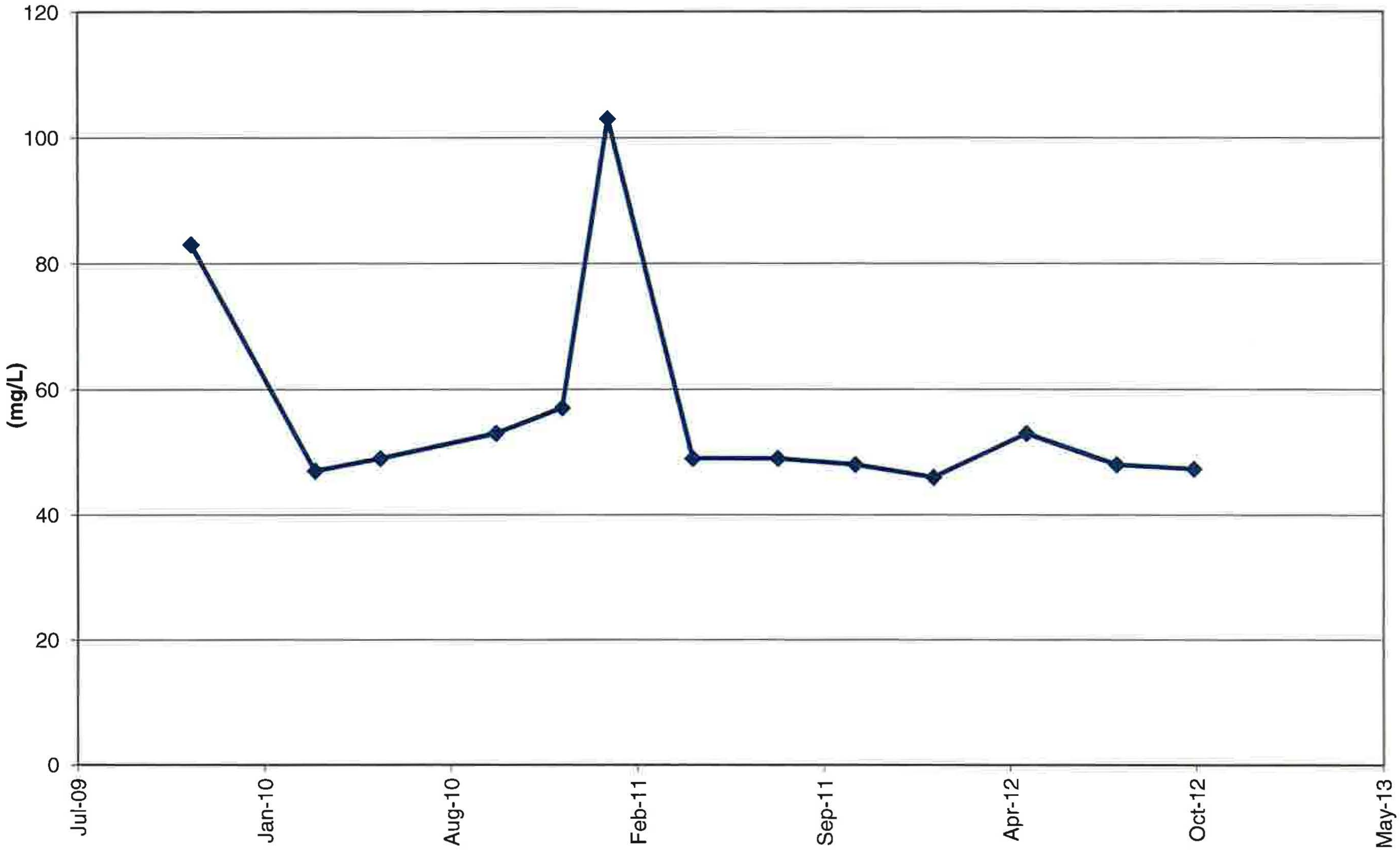
TWN-12 Chloride Concentrations



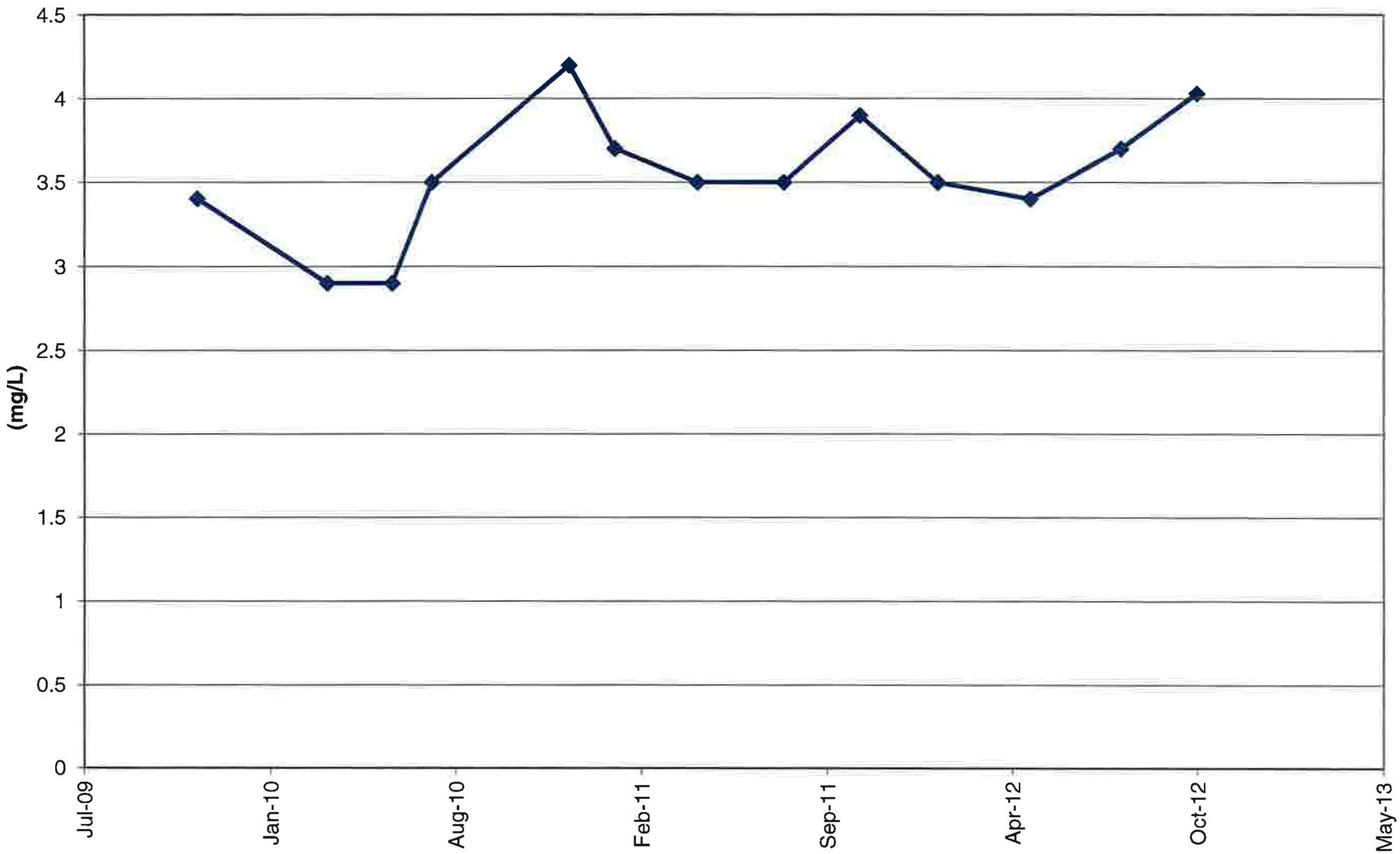
TWN-13 Nitrate Concentrations



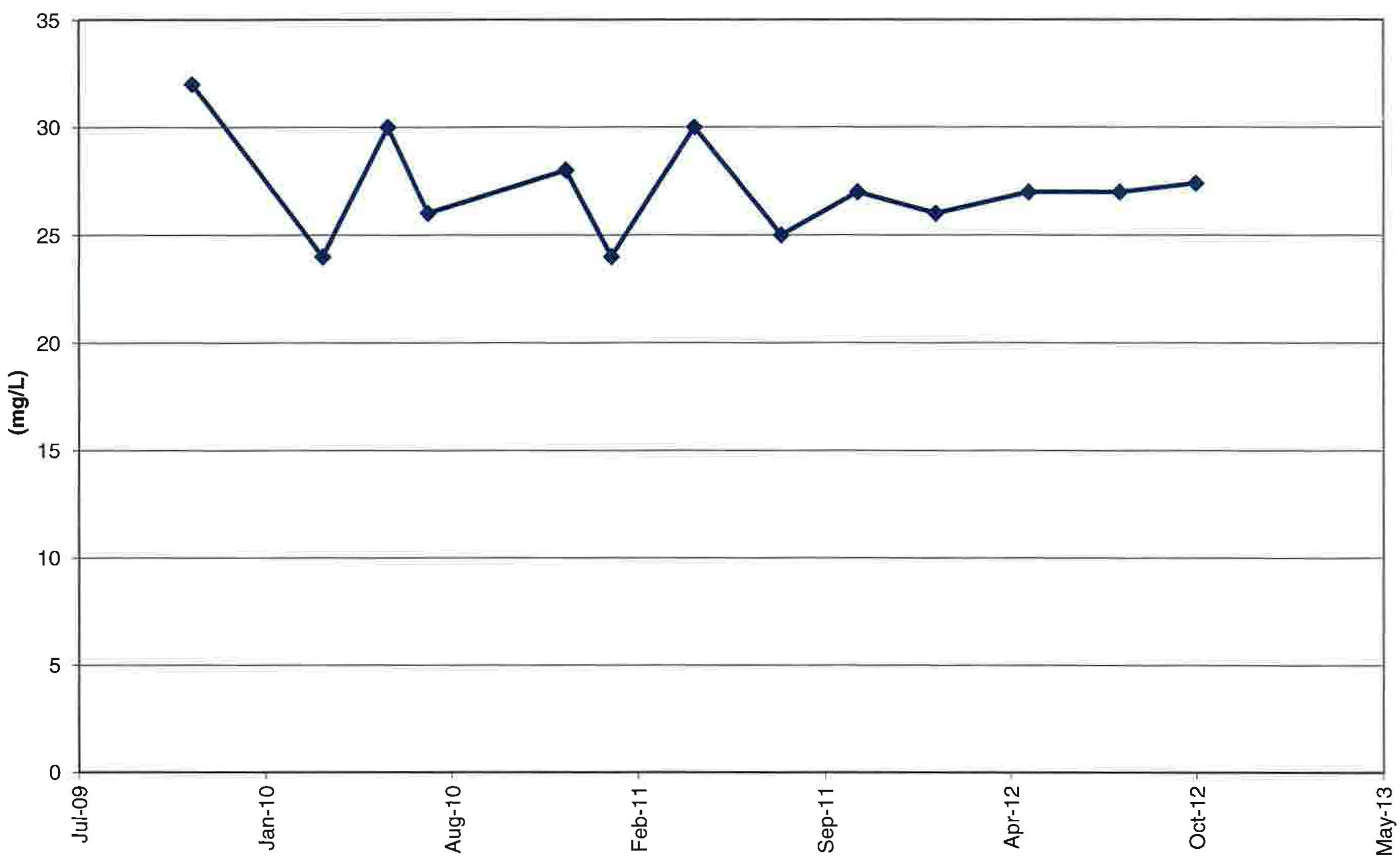
TWN-13 Chloride Concentrations

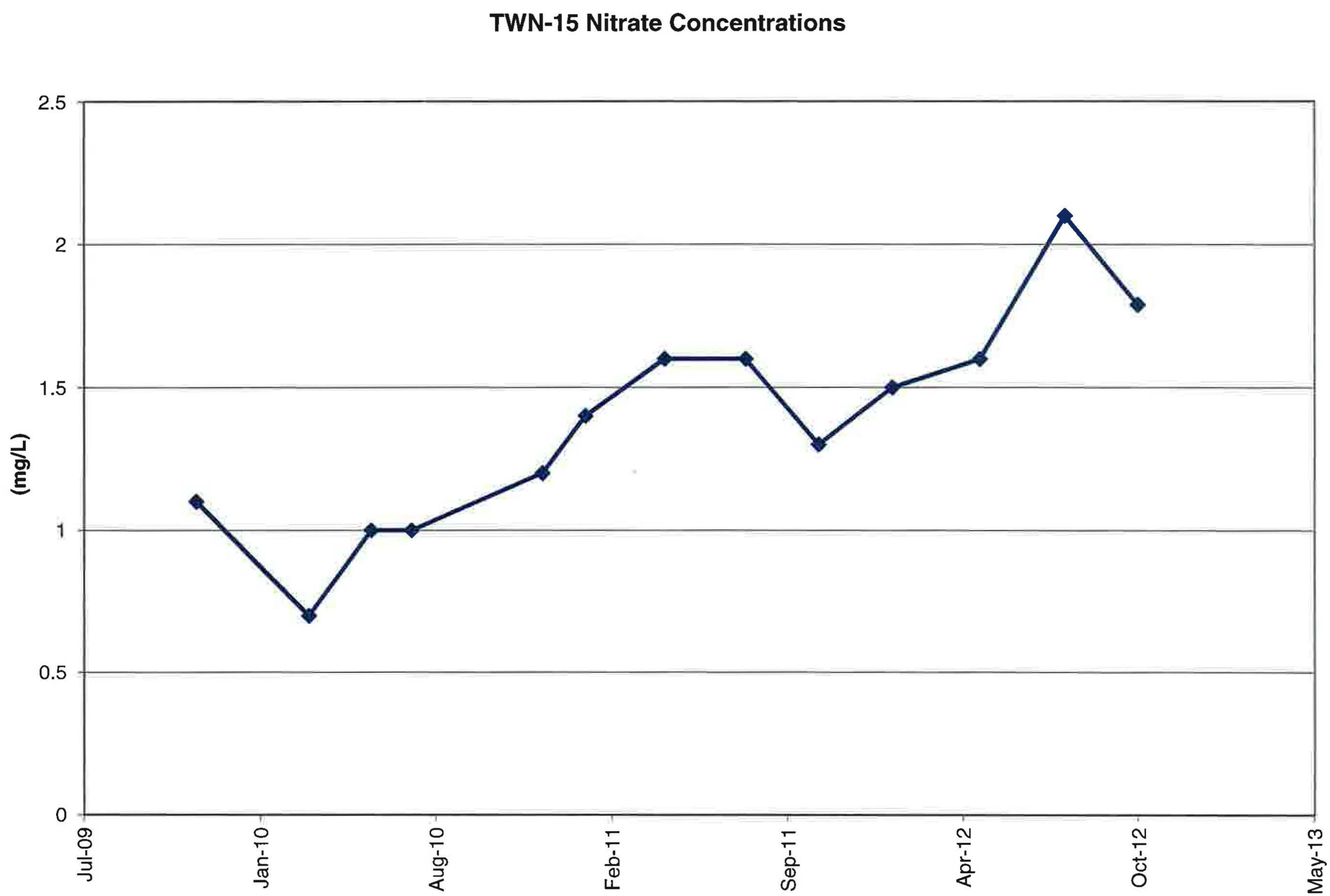


TWN-14 Nitrate Concentrations

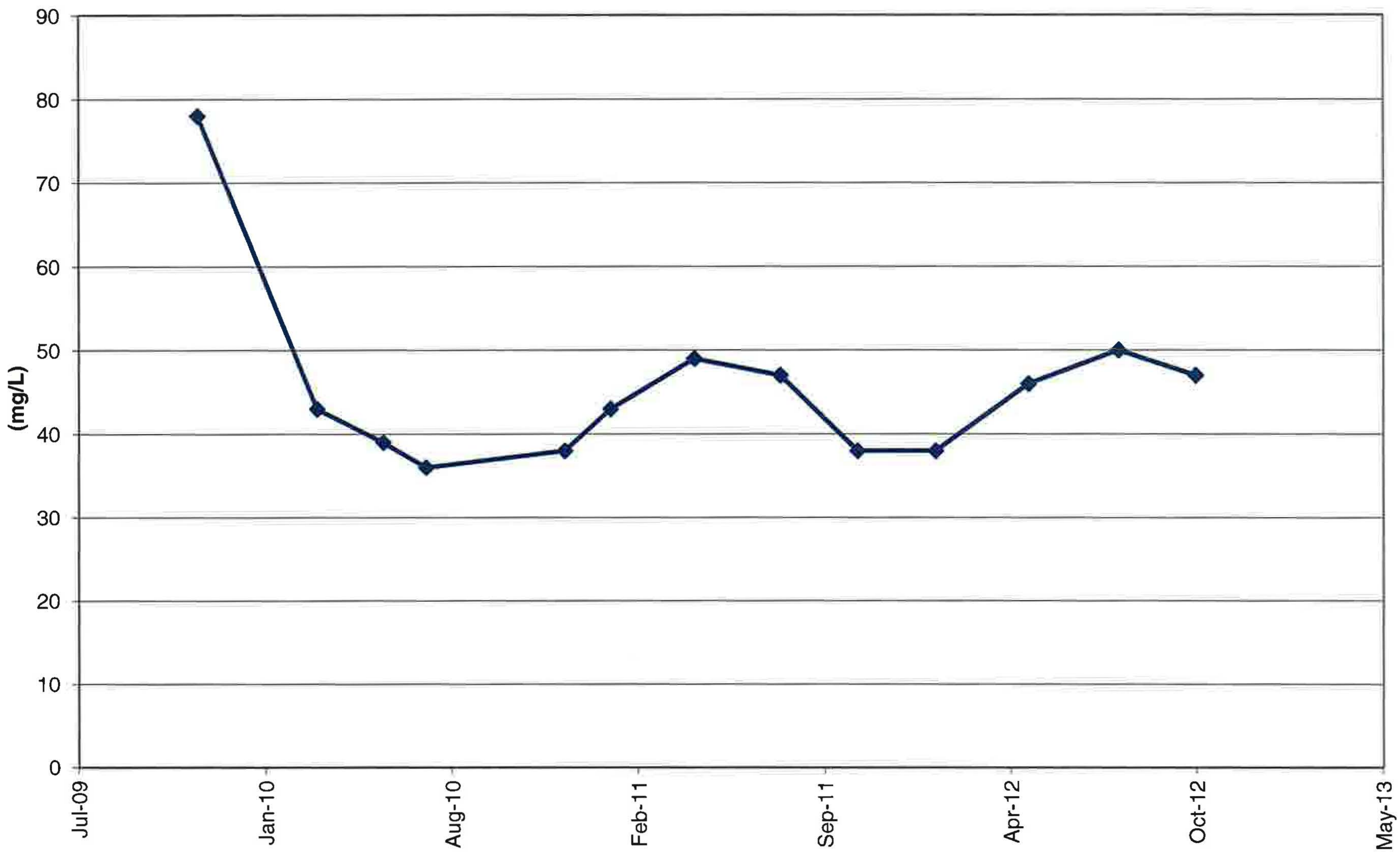


TWN-14 Chloride Concentrations

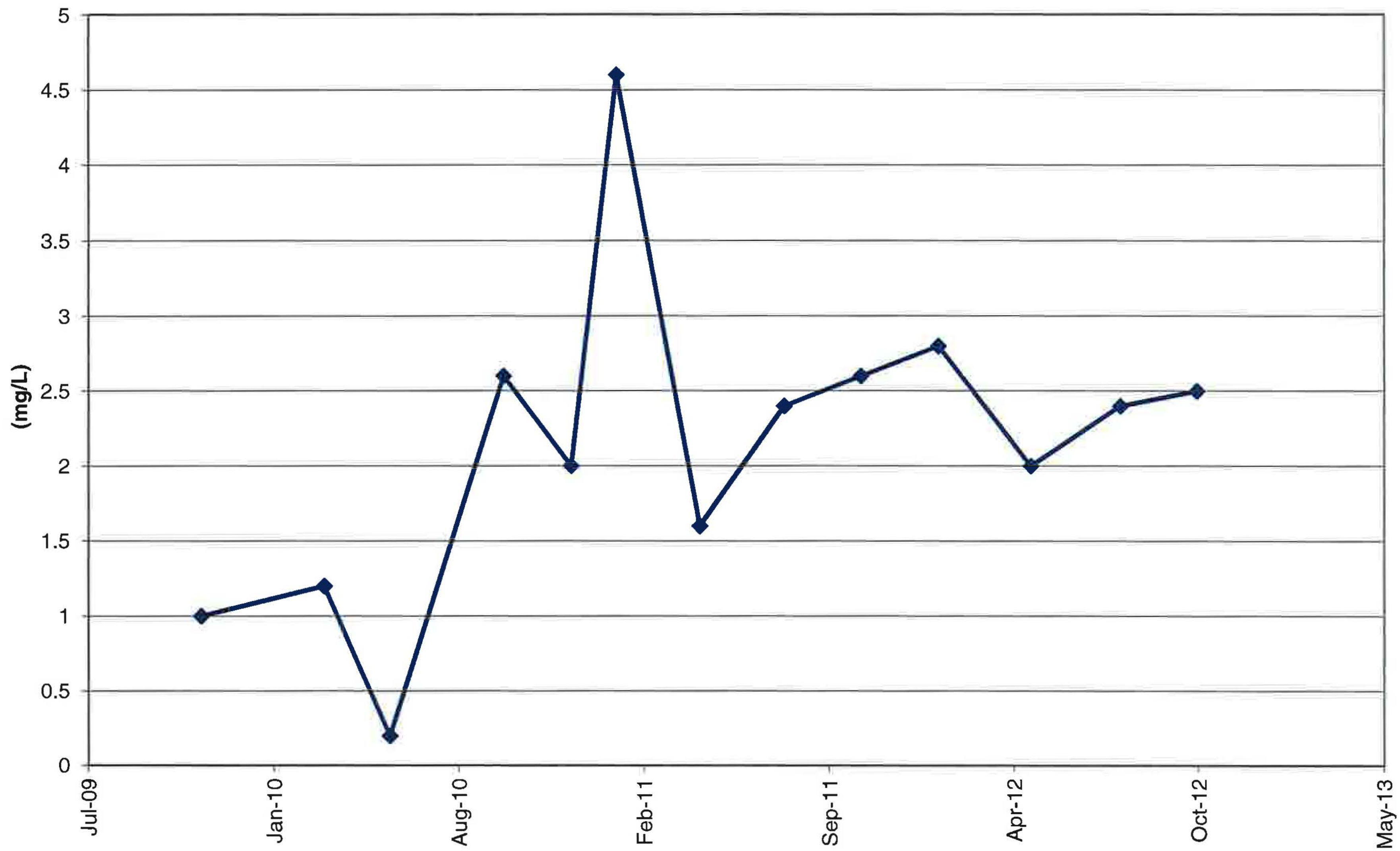



TWN-15 Nitrate Concentrations
(mg/L)
0
0.5
1
1.5
2
2.5
Jul-09
Jan-10
Aug-10
Feb-11
Sep-11
Apr-12
Oct-12
May-13

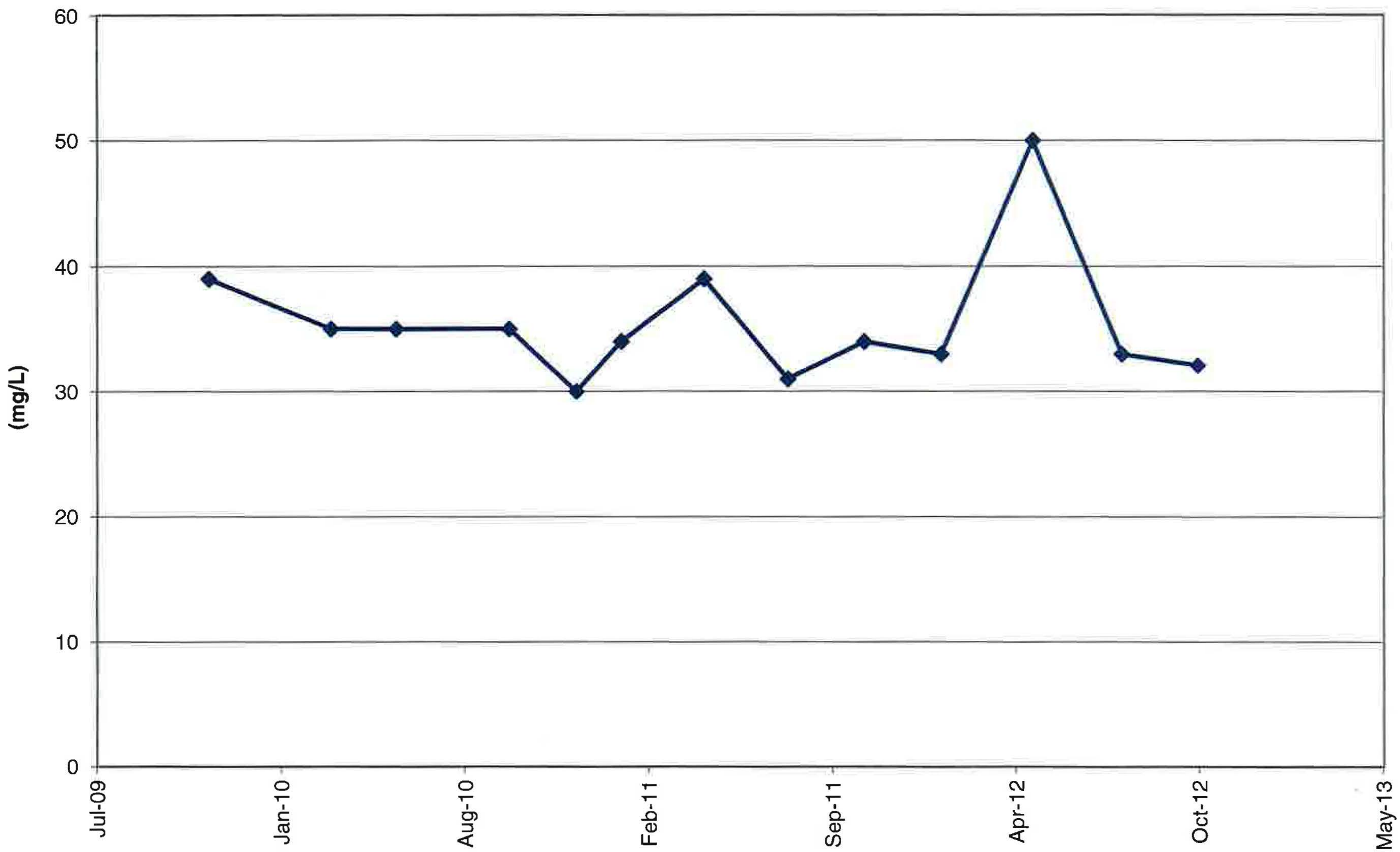
TWN-15 Chloride Concentrations



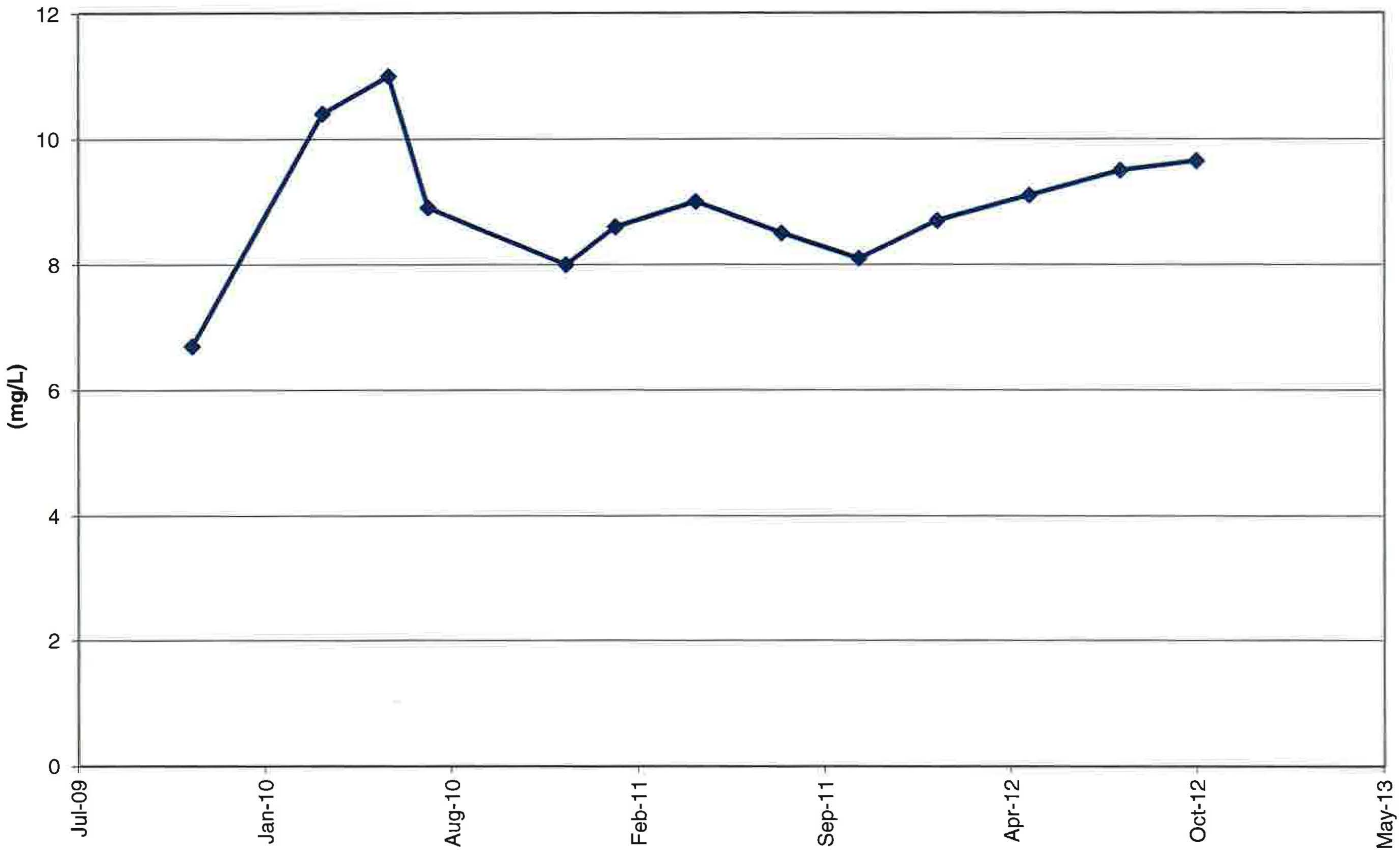
TWN-16 Nitrate Concentrations



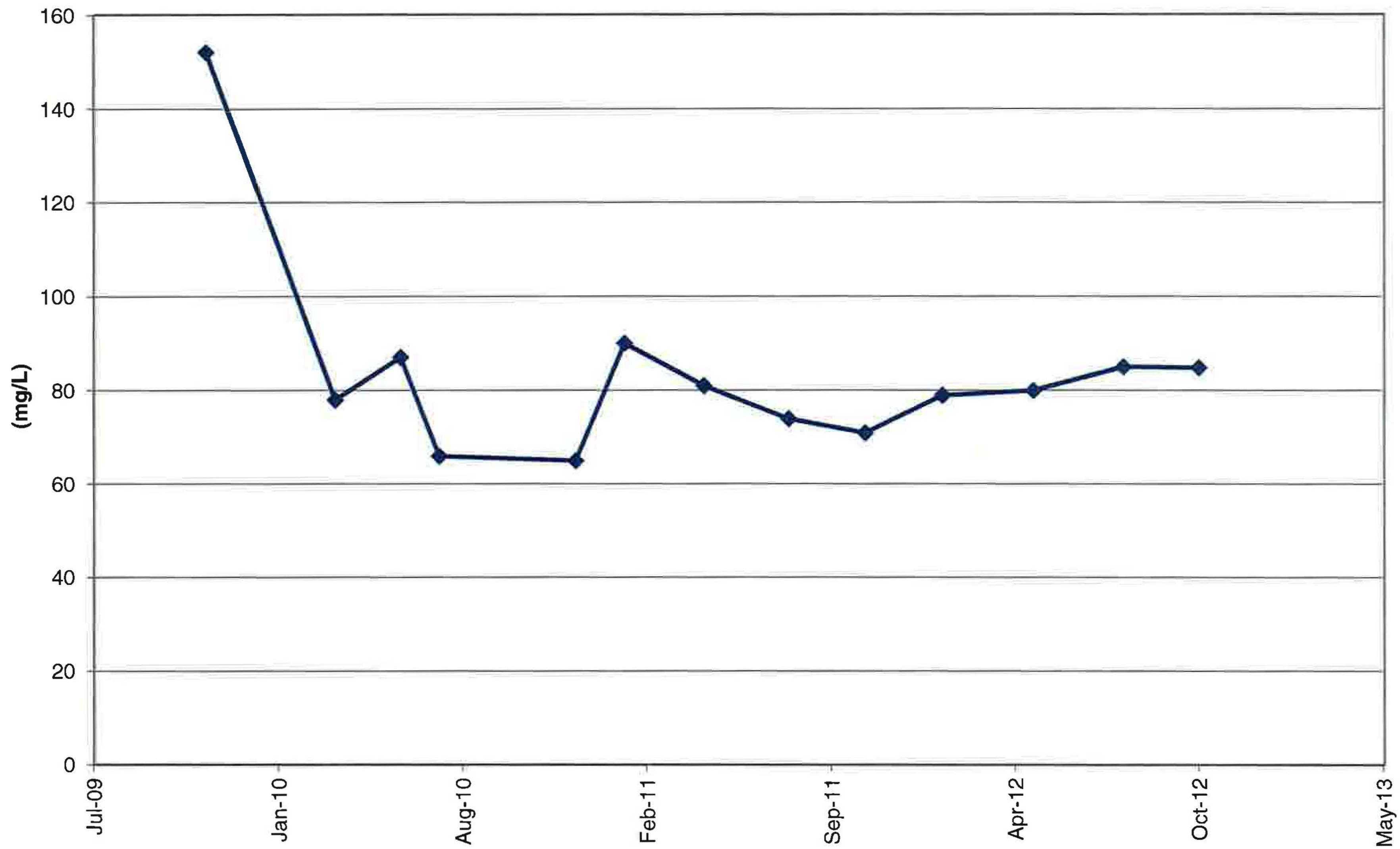
TWN-16 Chloride Concentrations



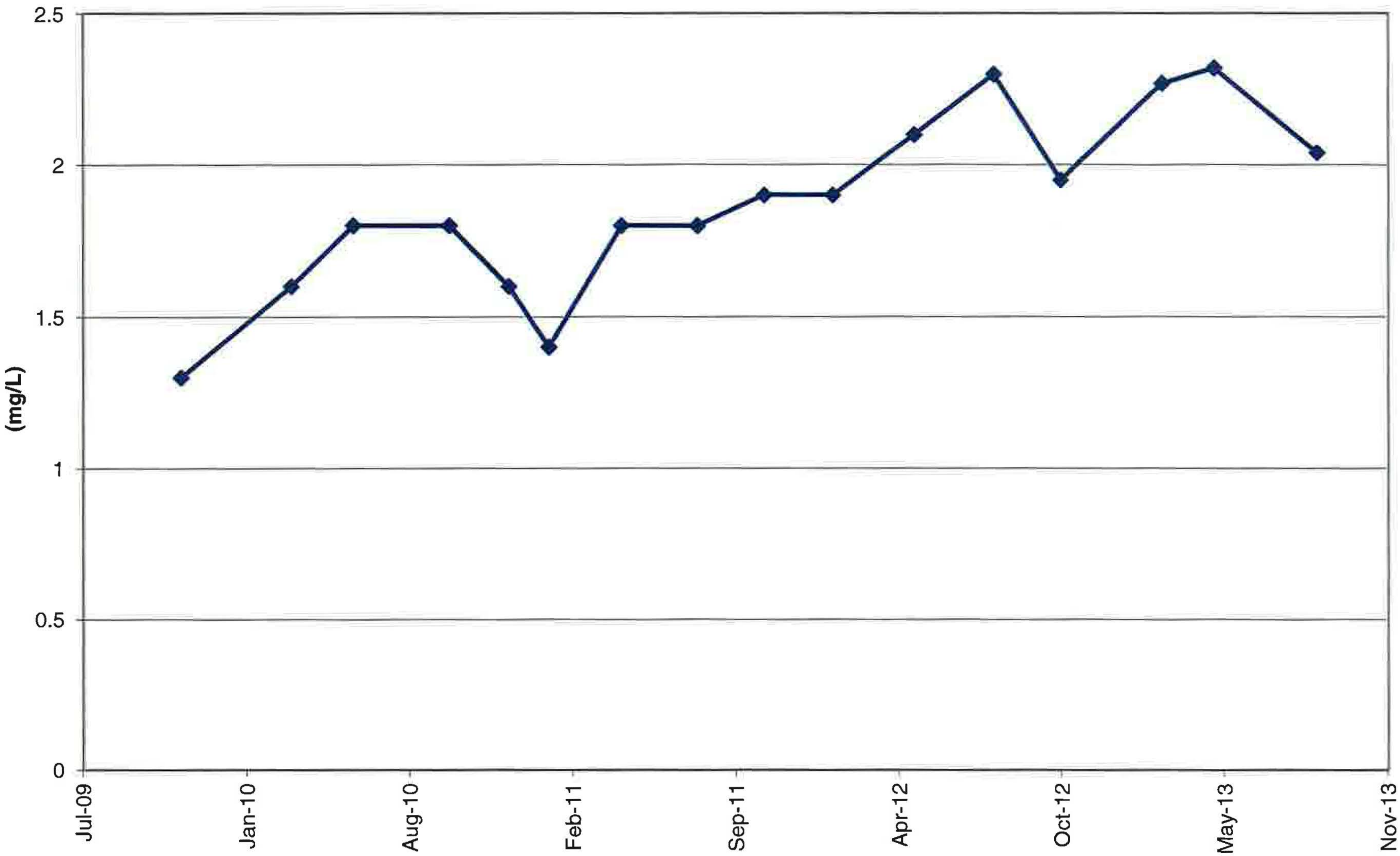
TWN-17 Nitrate Concentrations



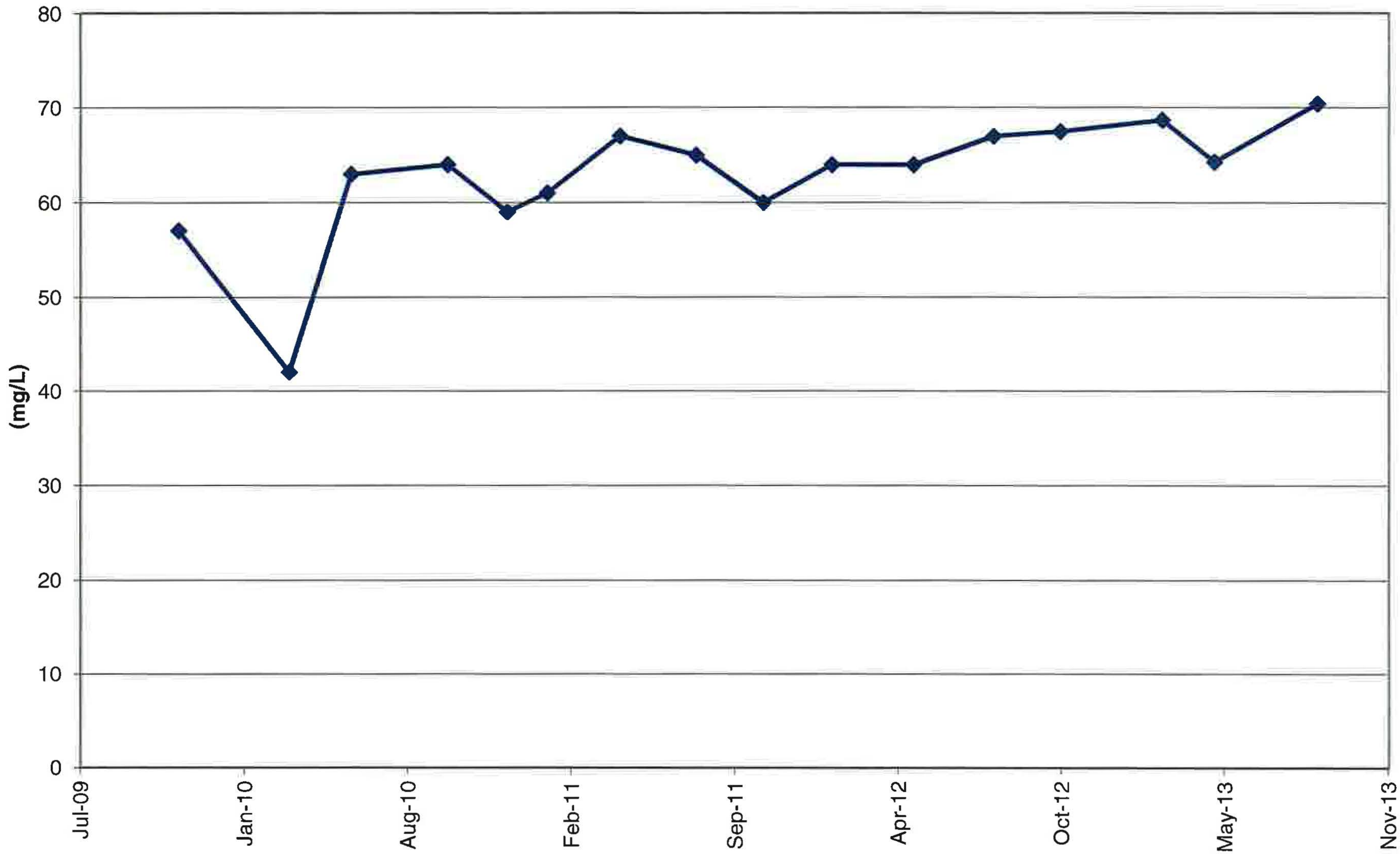
TWN-17 Chloride Concentrations



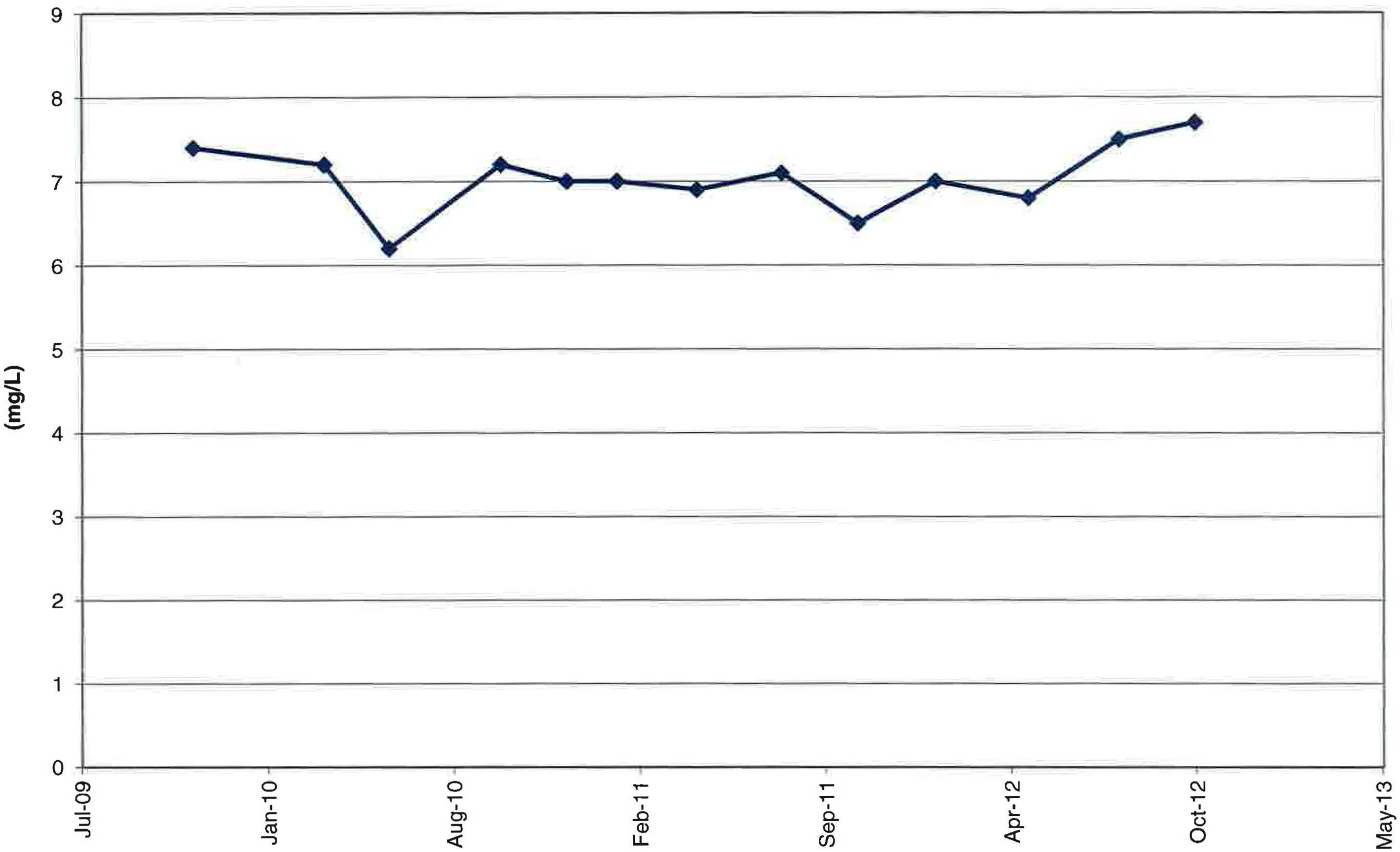
TWN-18 Nitrate Concentrations



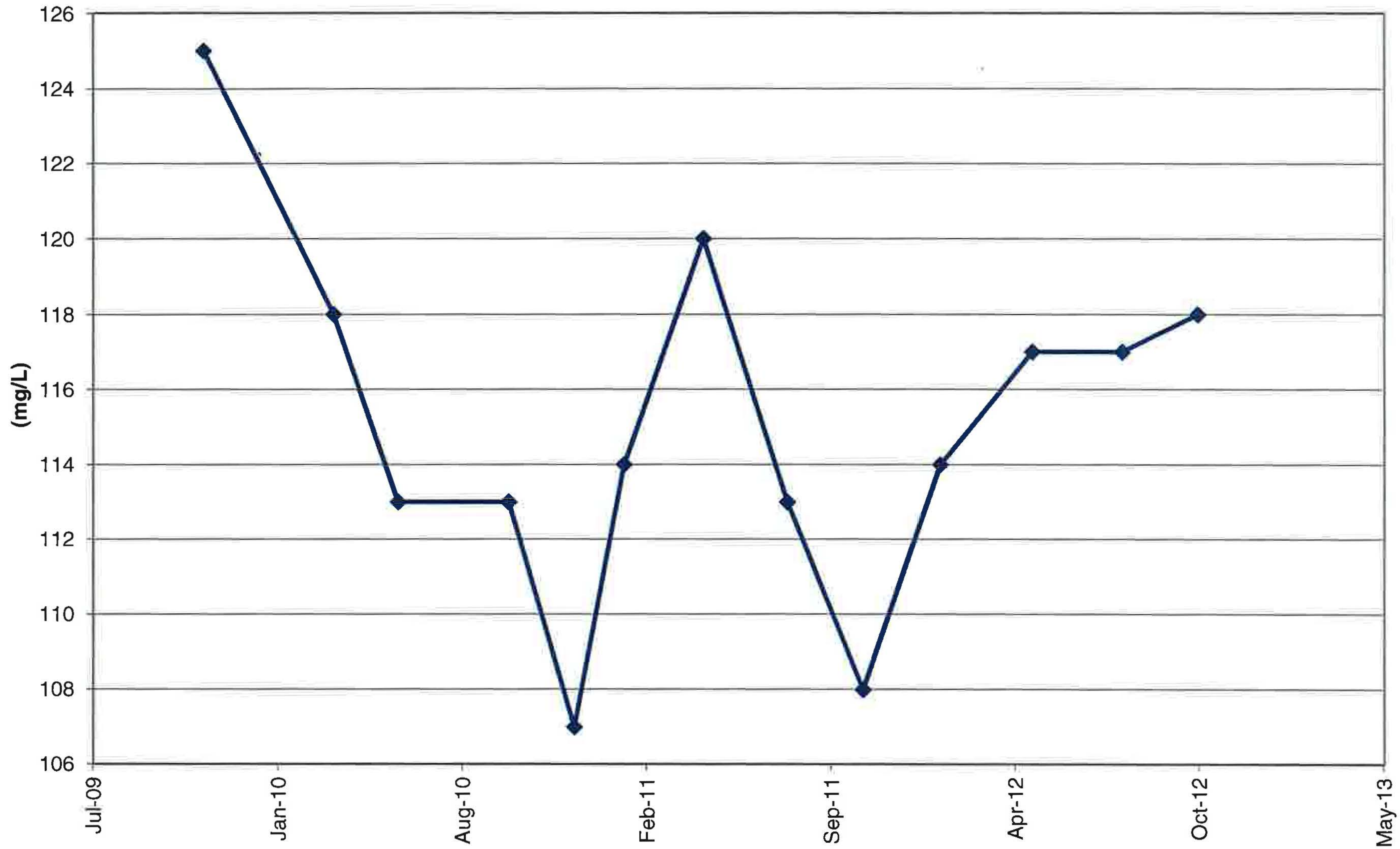
TWN-18 Chloride Concentrations



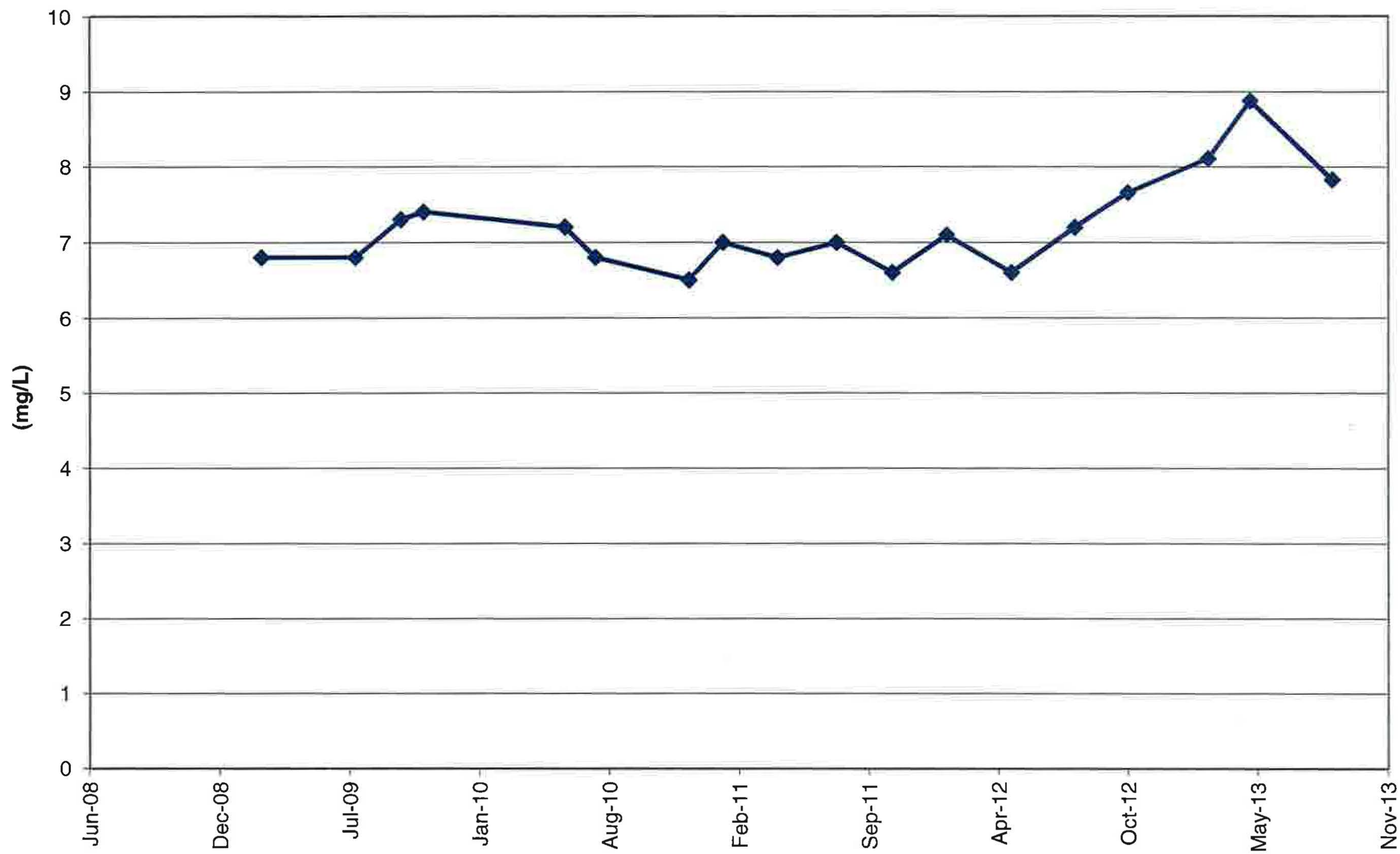
TWN-19 Nitrate Concentrations



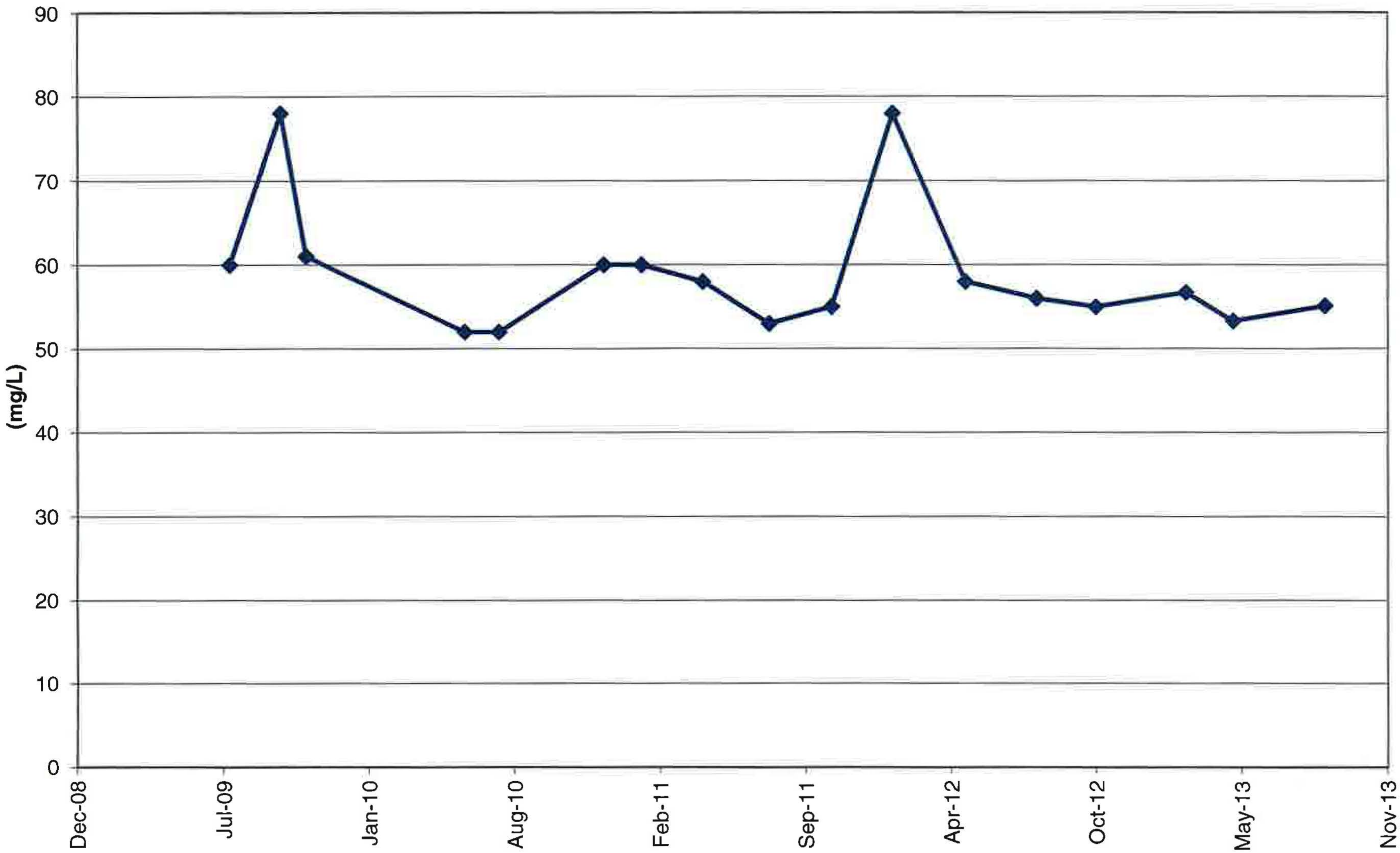
TWN-19 Chloride Concentrations



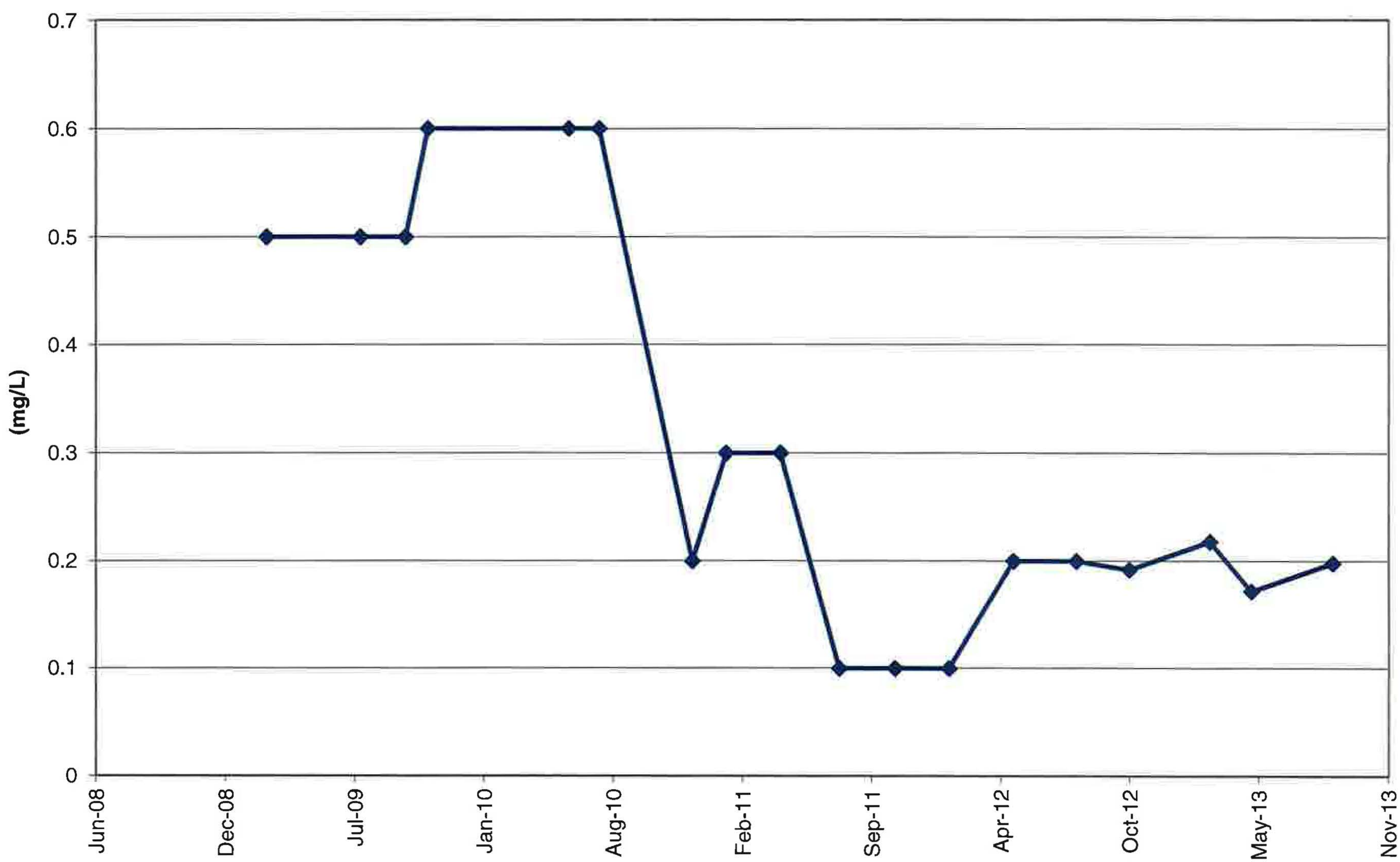
Piezometer 1 Nitrate Concentrations



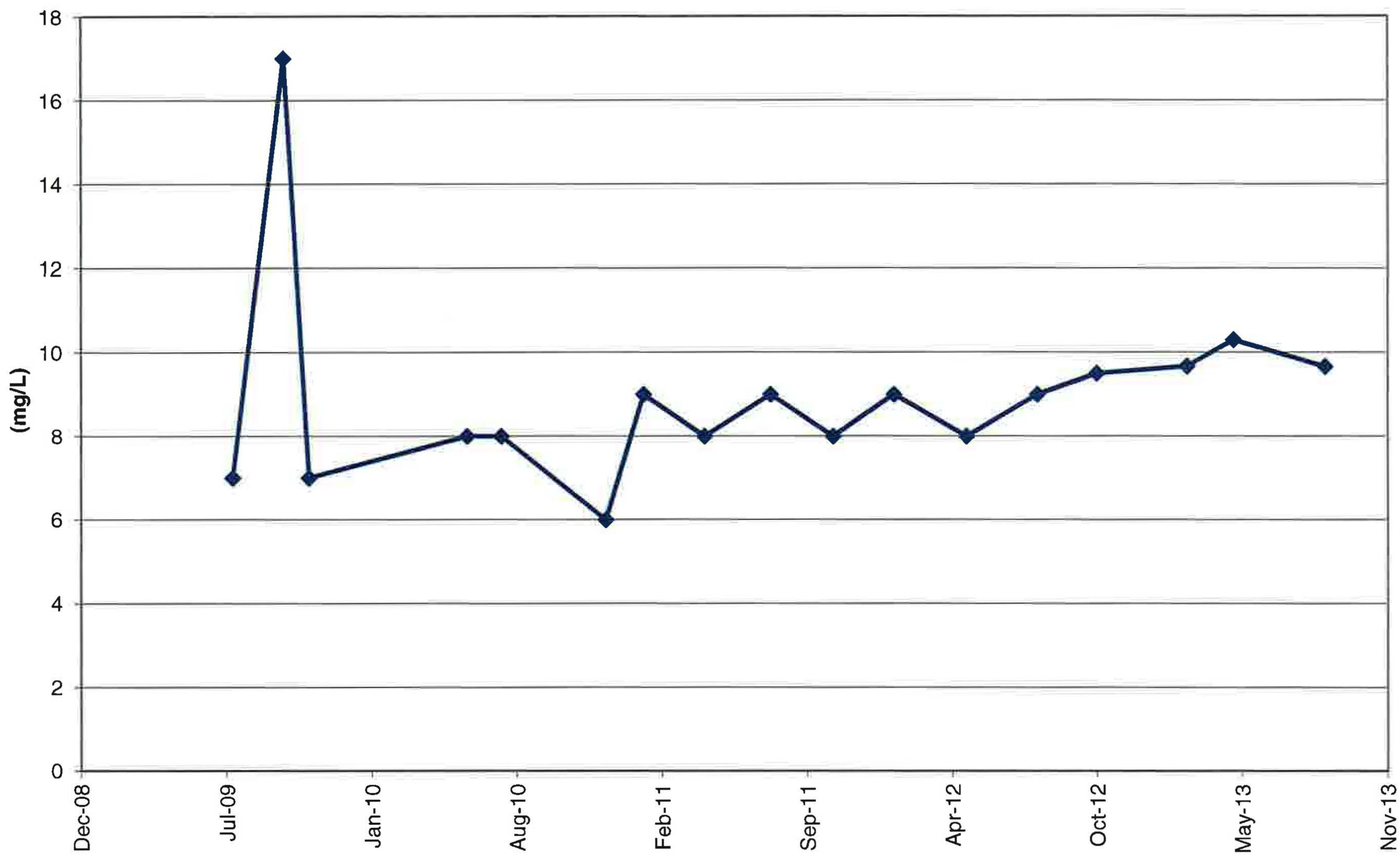
Piezometer 1 Chloride Concentrations



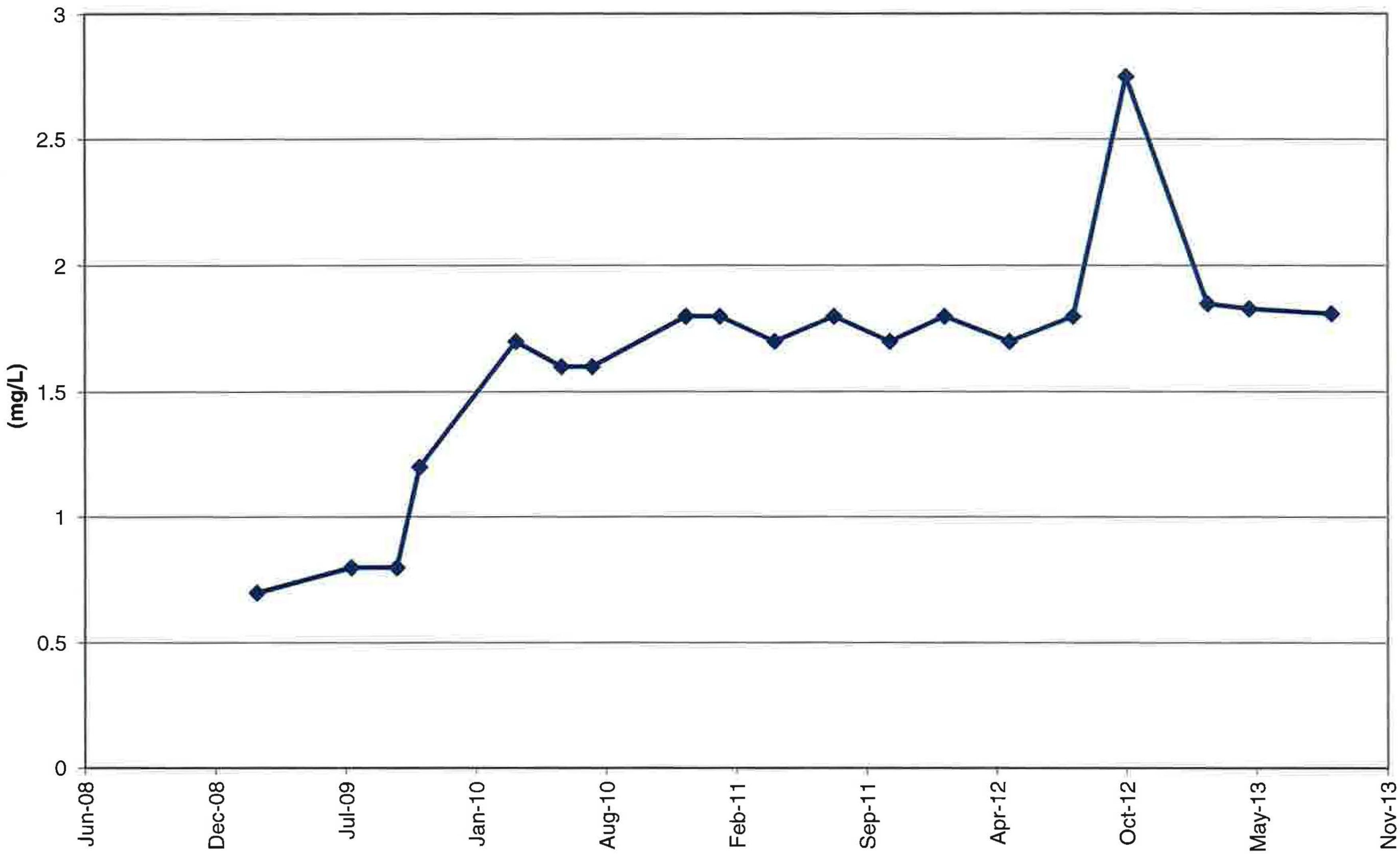
Piezometer 2 Nitrate Concentrations



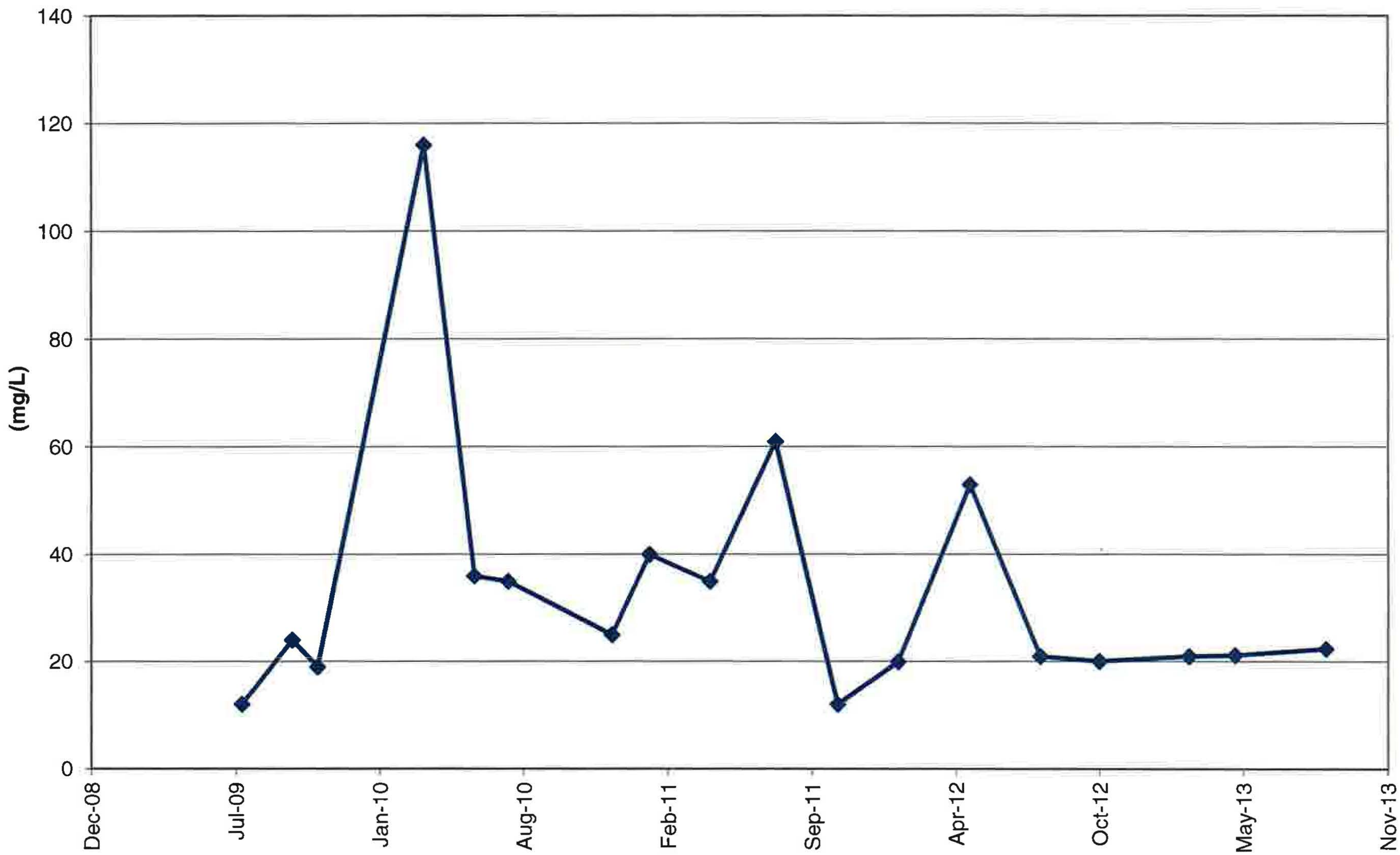
Piezometer 2 Chloride Concentrations



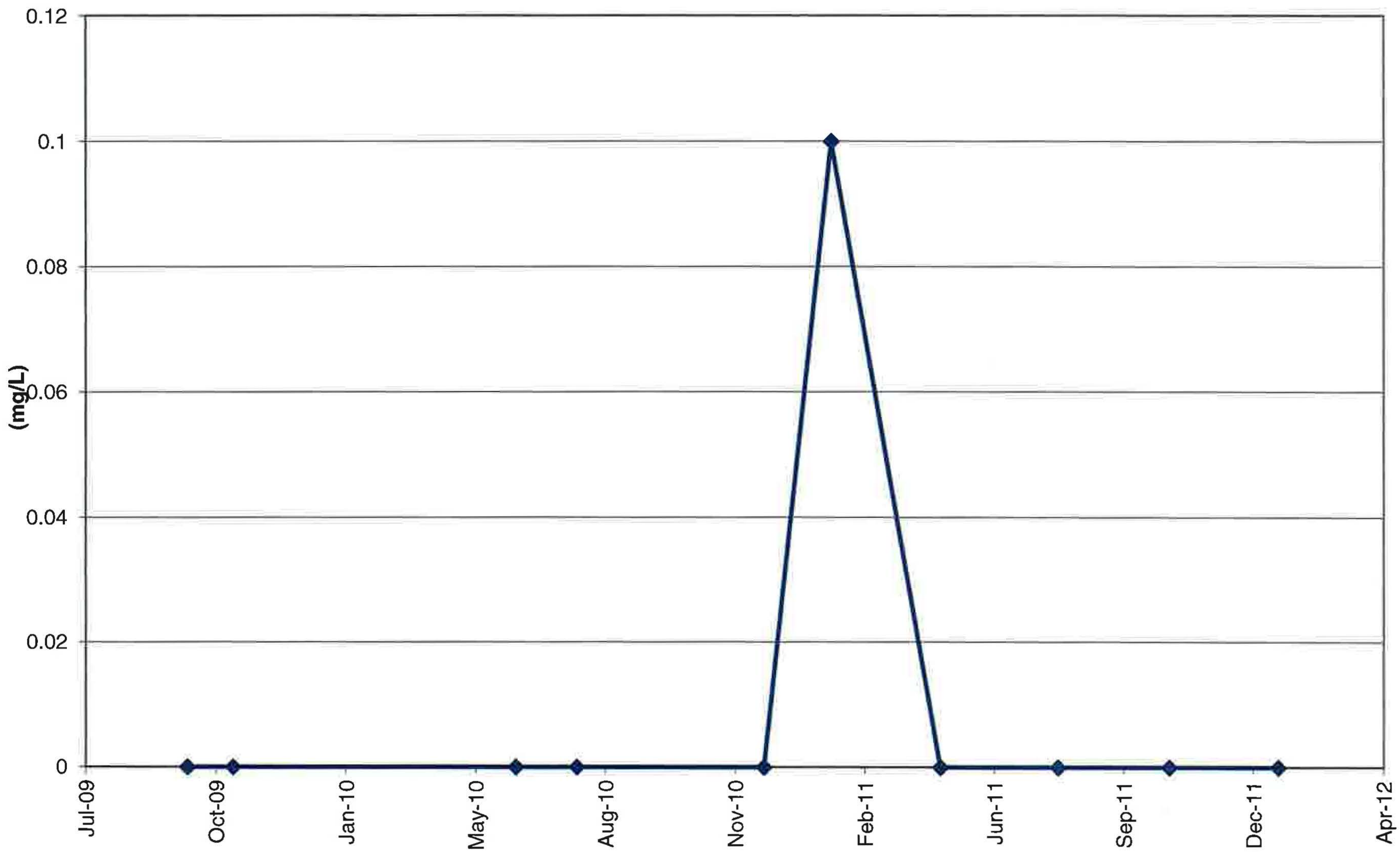
Piezometer 3 Nitrate Concentrations



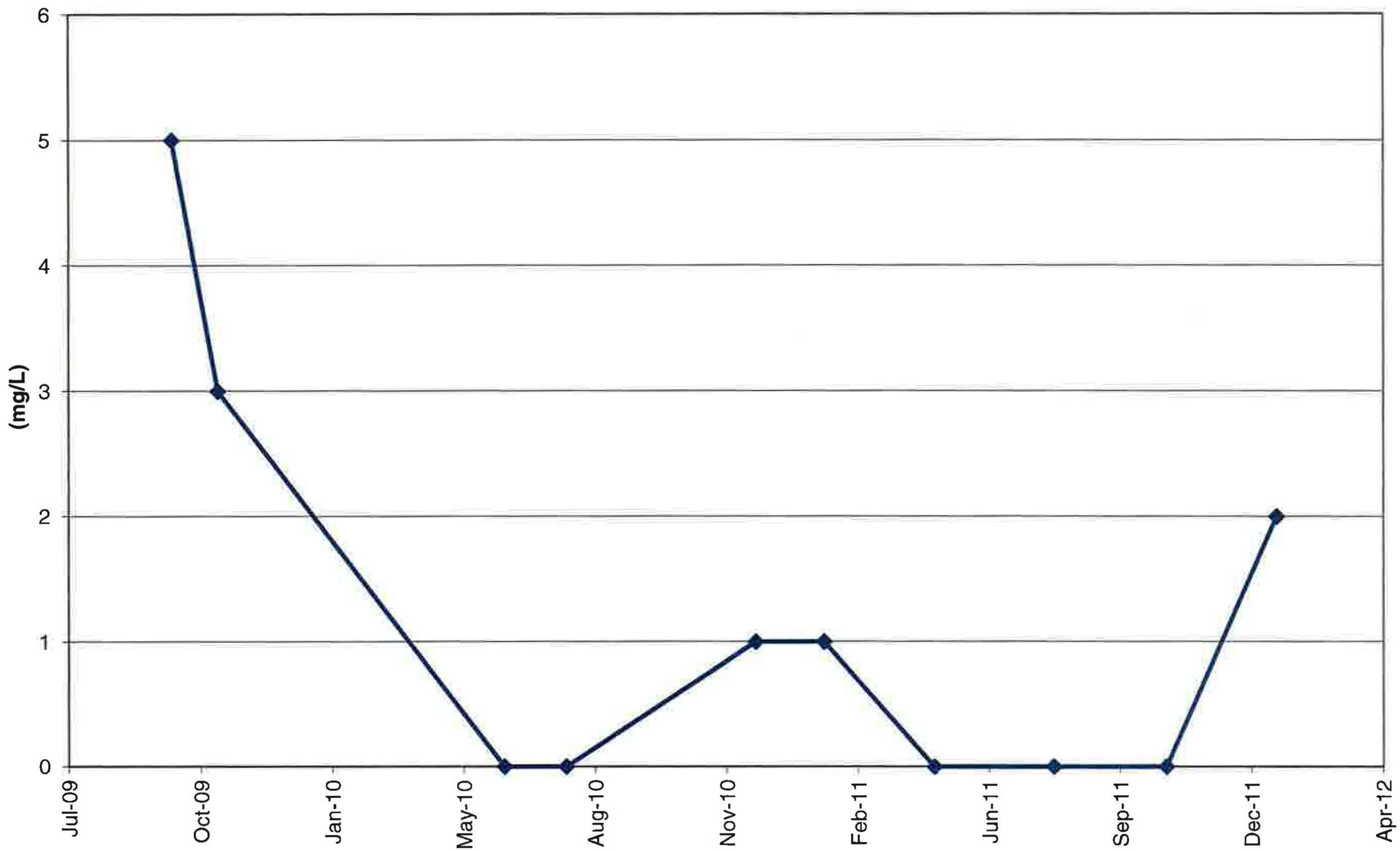
Piezometer 3 Chloride Concentrations

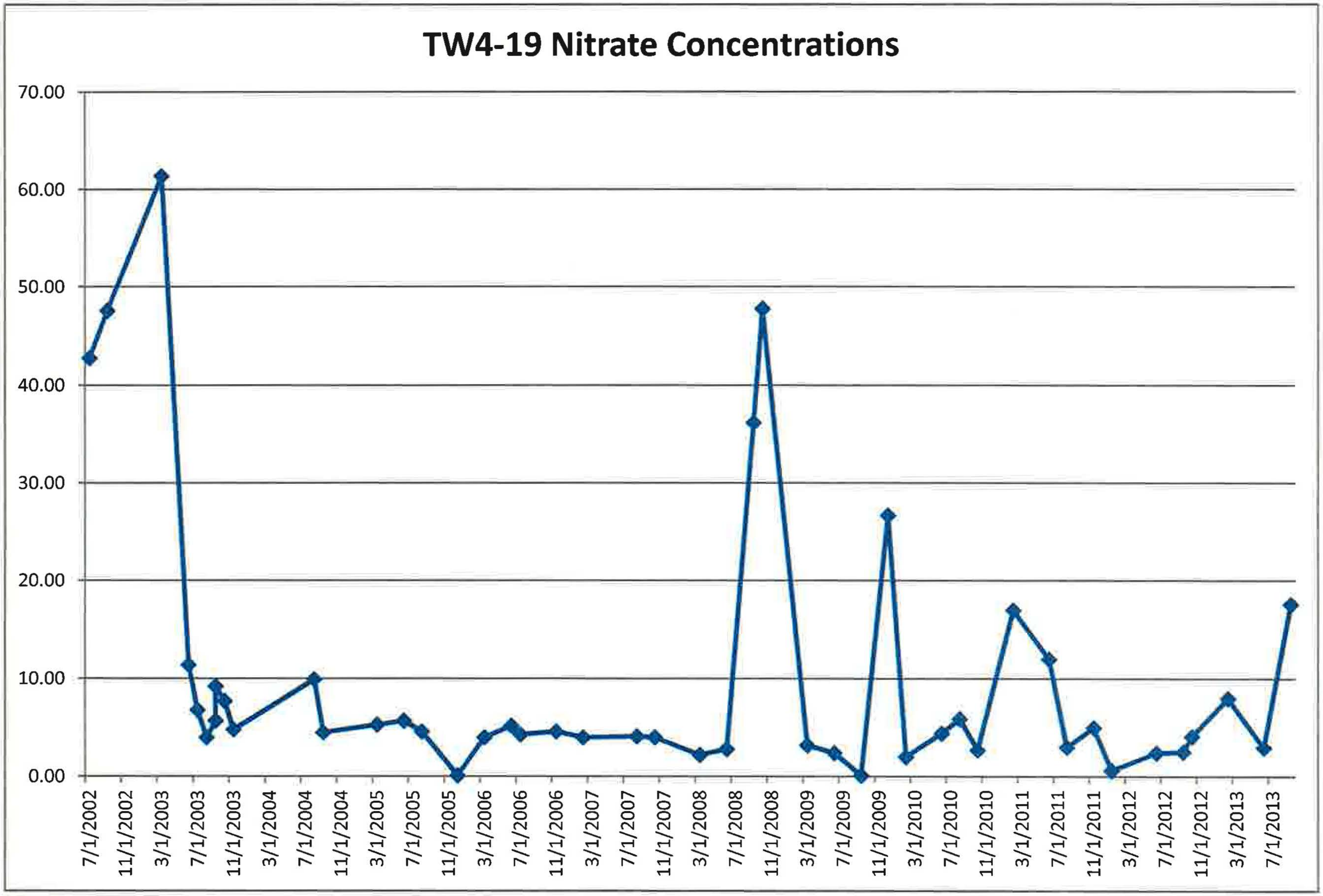


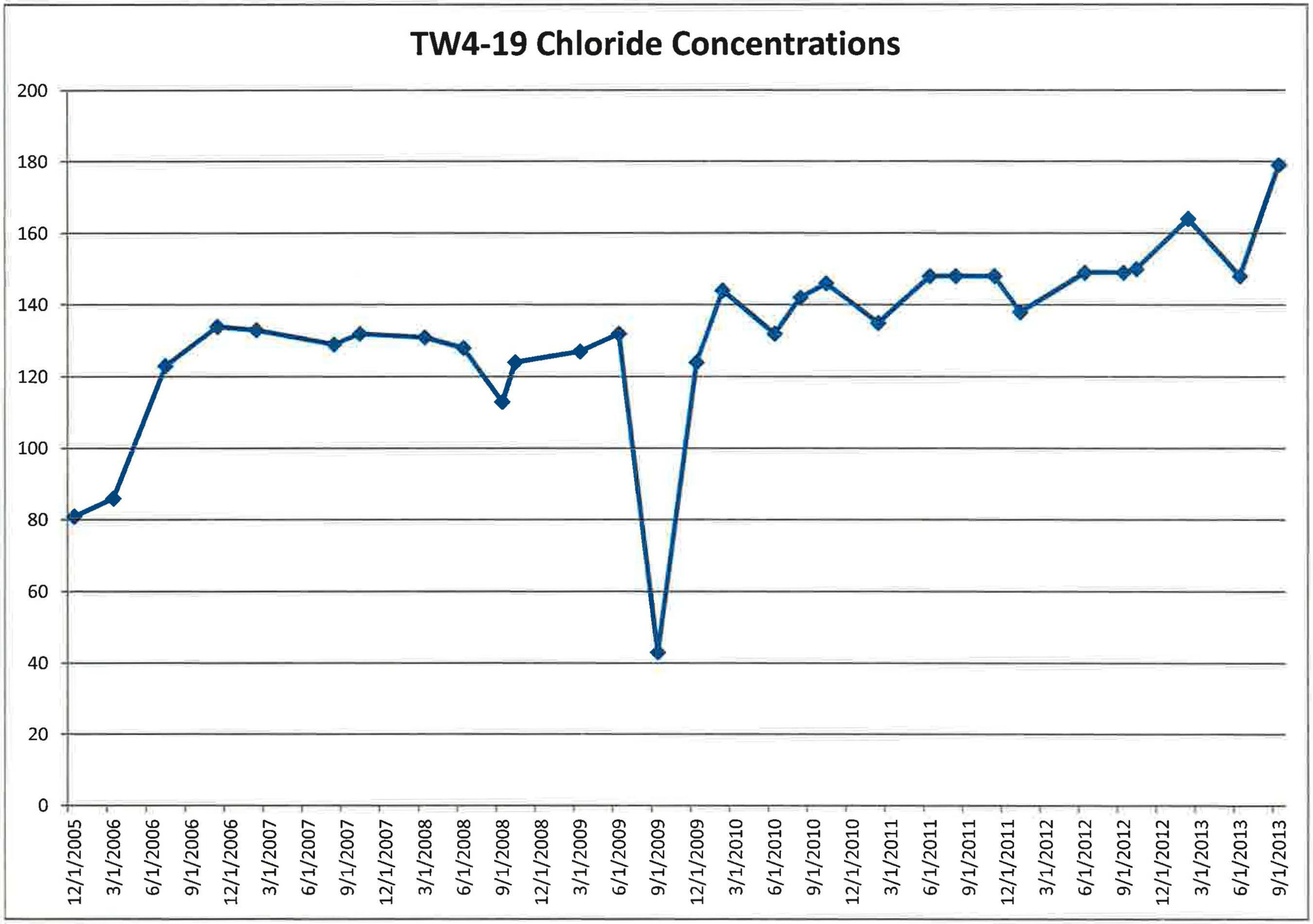
Upper Wildlife Pond Nitrate Concentrations

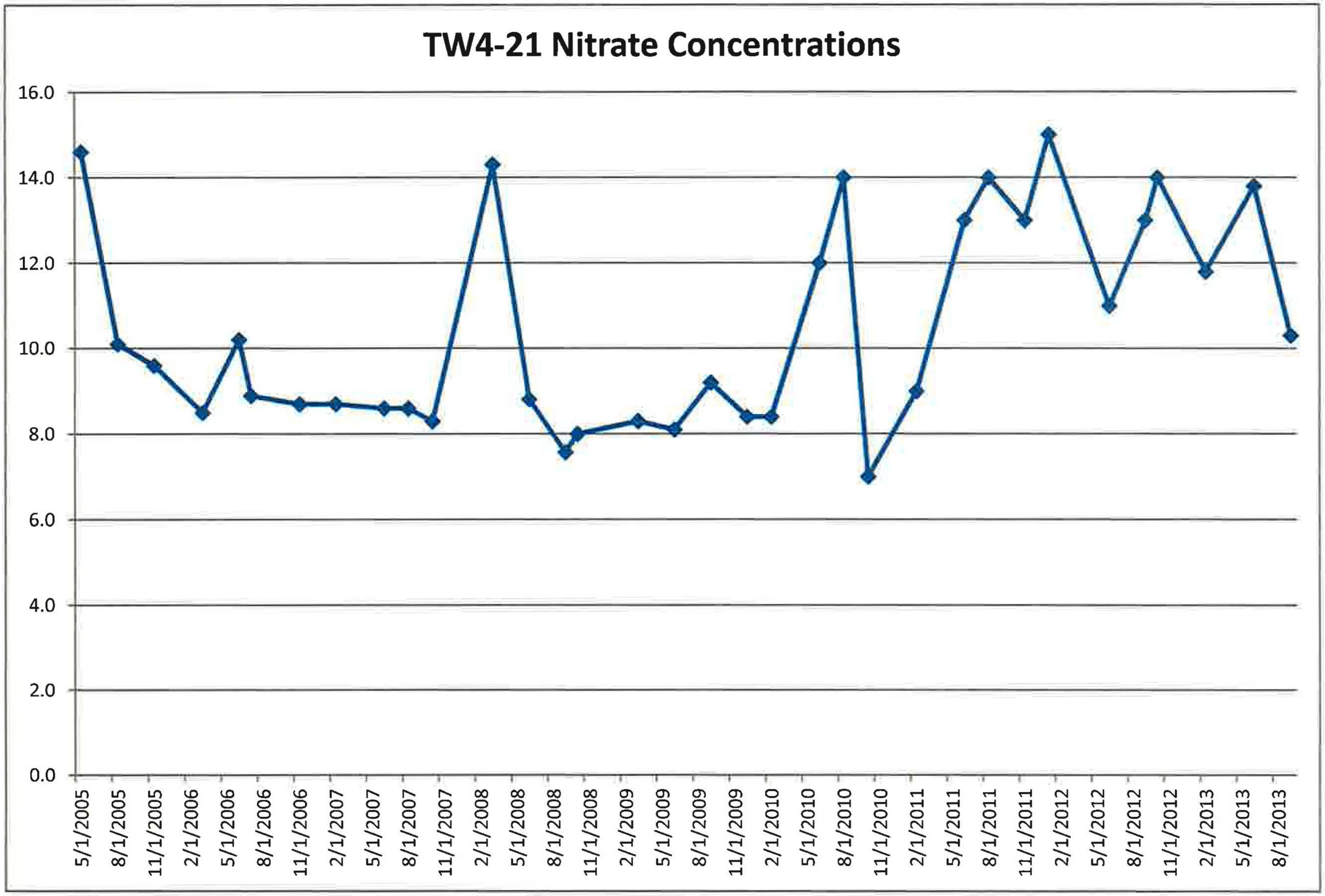


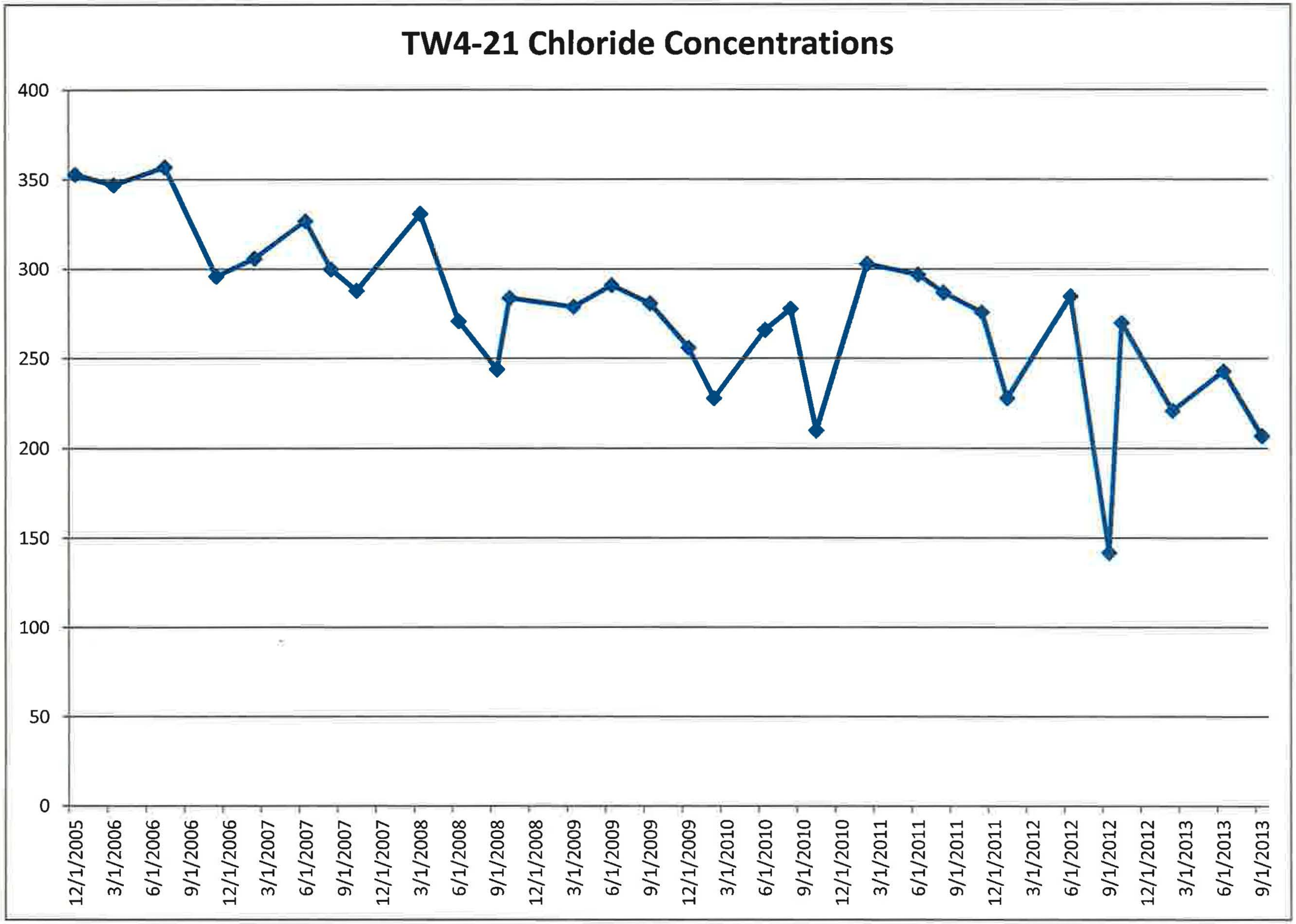
Upper Wildlife Pond Chloride Concentrations



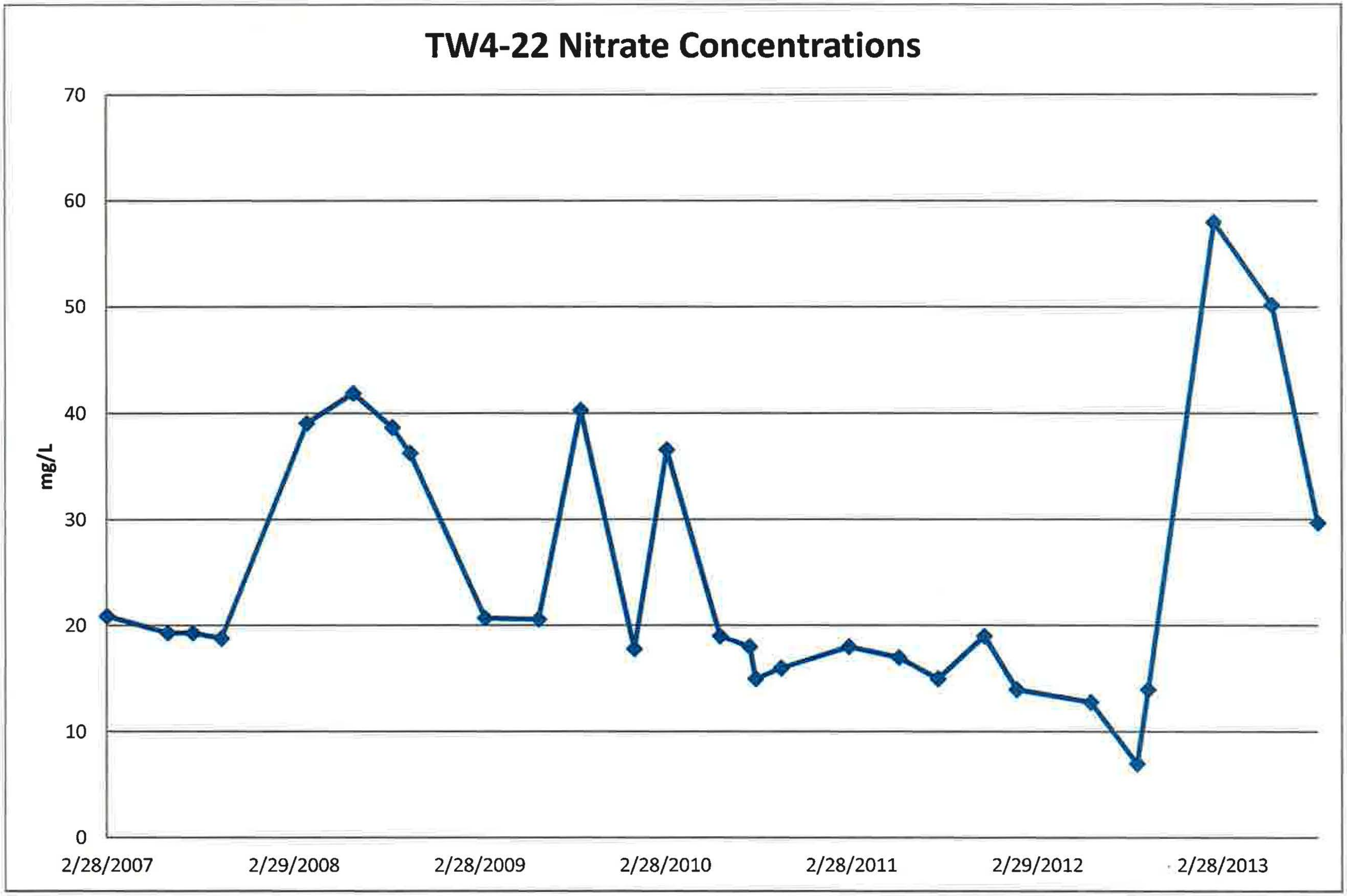

TW4-19 Nitrate Concentrations
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
7/1/2002
11/1/2002
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013

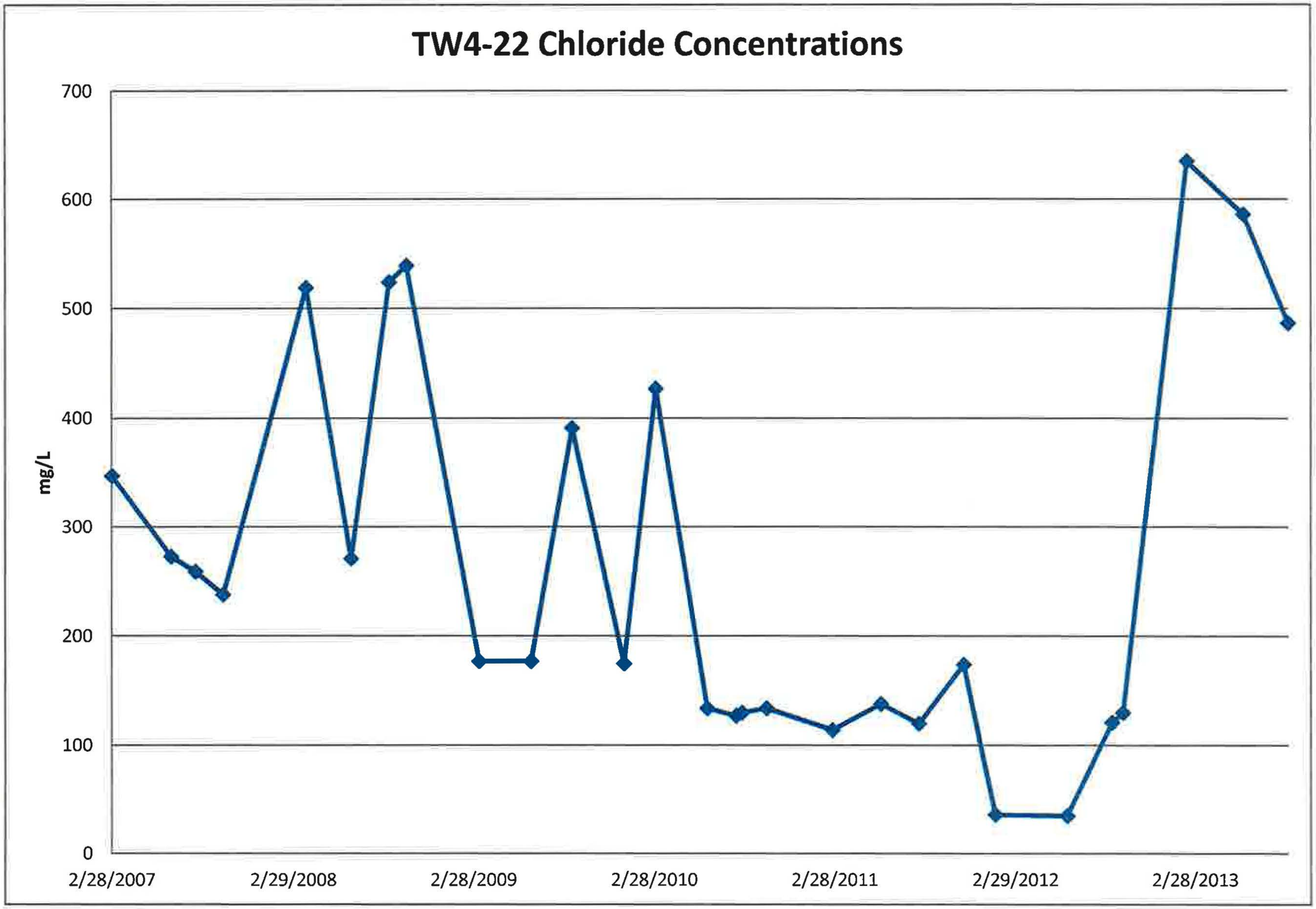

TW4-19 Chloride Concentrations
200
180
160
140
120
100
80
60
40
20
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013

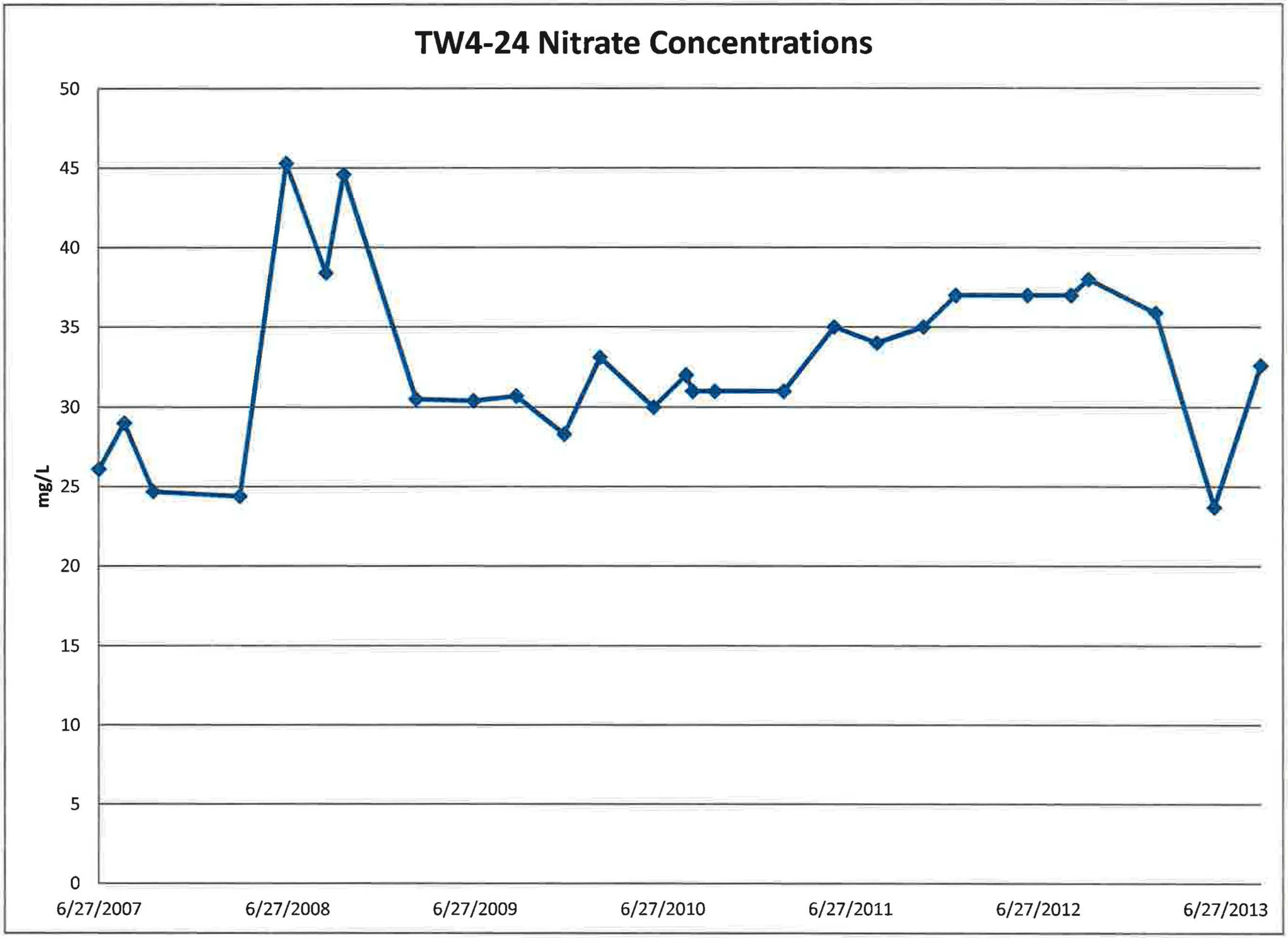

TW4-21 Nitrate Concentrations
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
5/1/2005
8/1/2005
11/1/2005
2/1/2006
5/1/2006
8/1/2006
11/1/2006
2/1/2007
5/1/2007
8/1/2007
11/1/2007
2/1/2008
5/1/2008
8/1/2008
11/1/2008
2/1/2009
5/1/2009
8/1/2009
11/1/2009
2/1/2010
5/1/2010
8/1/2010
11/1/2010
2/1/2011
5/1/2011
8/1/2011
11/1/2011
2/1/2012
5/1/2012
8/1/2012
11/1/2012
2/1/2013
5/1/2013
8/1/2013

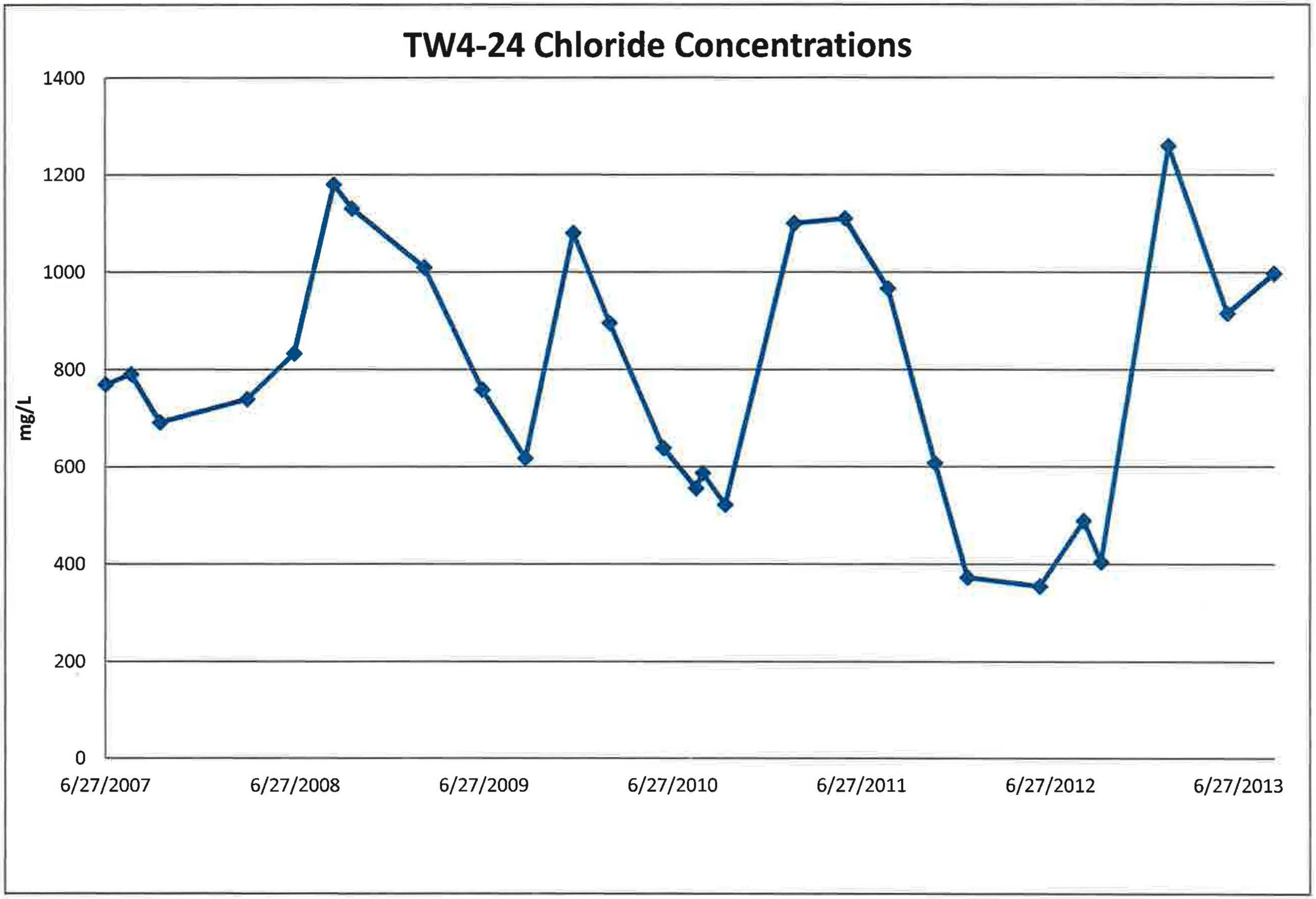


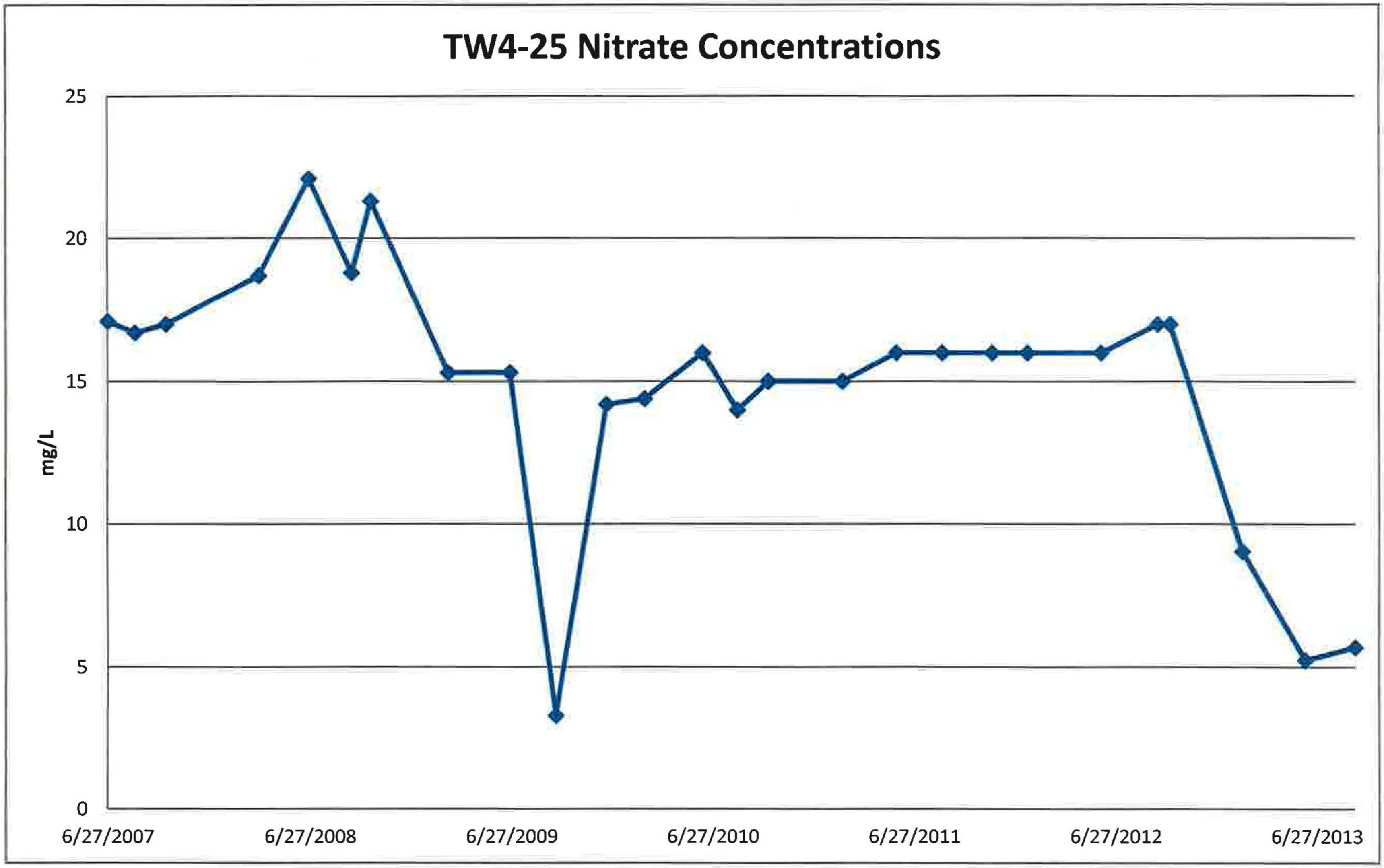
TW4-21 Chloride Concentrations
400
350
300
250
200
150
100
50
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013

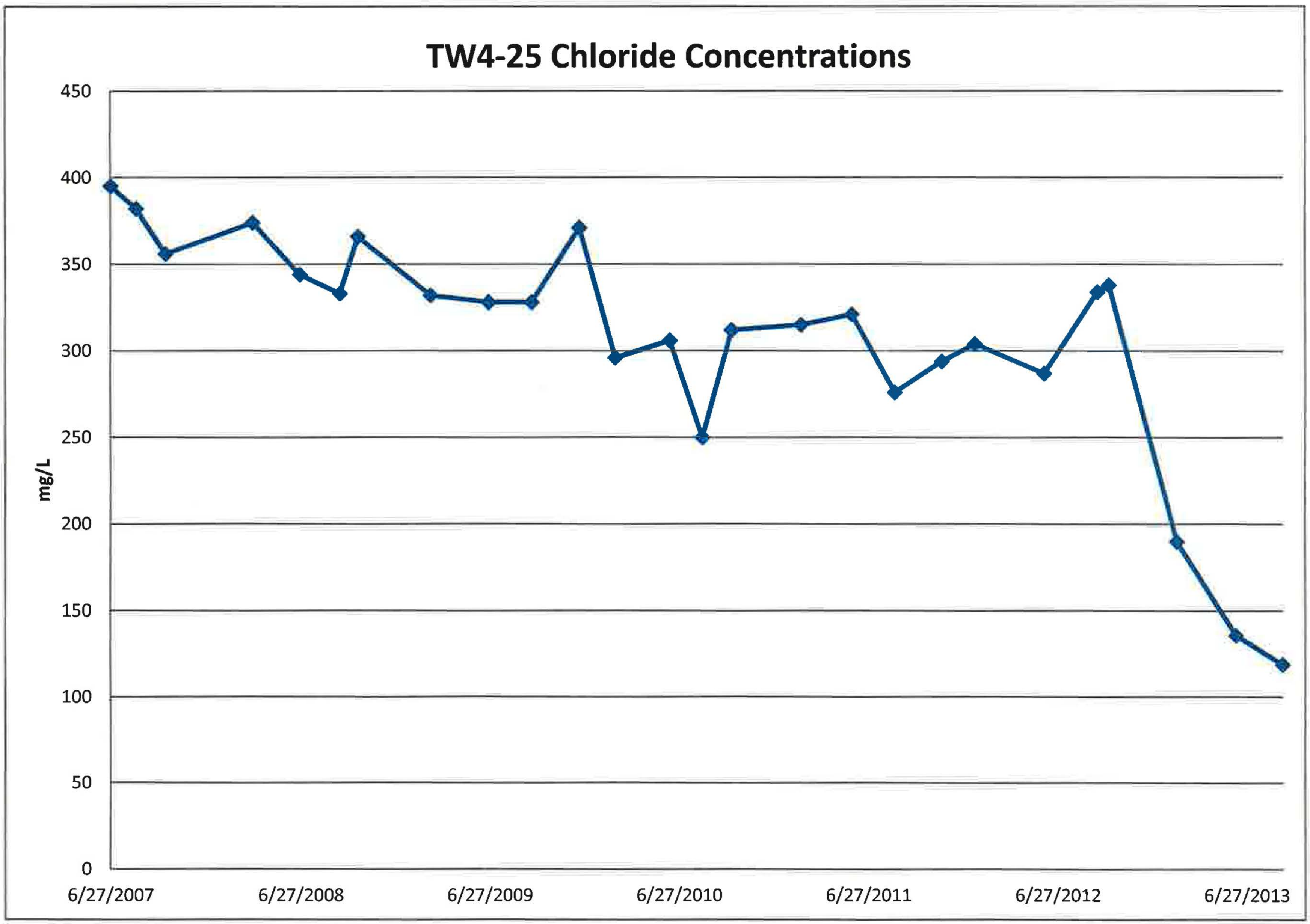

TW4-22 Nitrate Concentrations
mg/L
70
60
50
40
30
20
10
0
2/28/2007
2/29/2008
2/28/2009
2/28/2010
2/28/2011
2/29/2012
2/28/2013

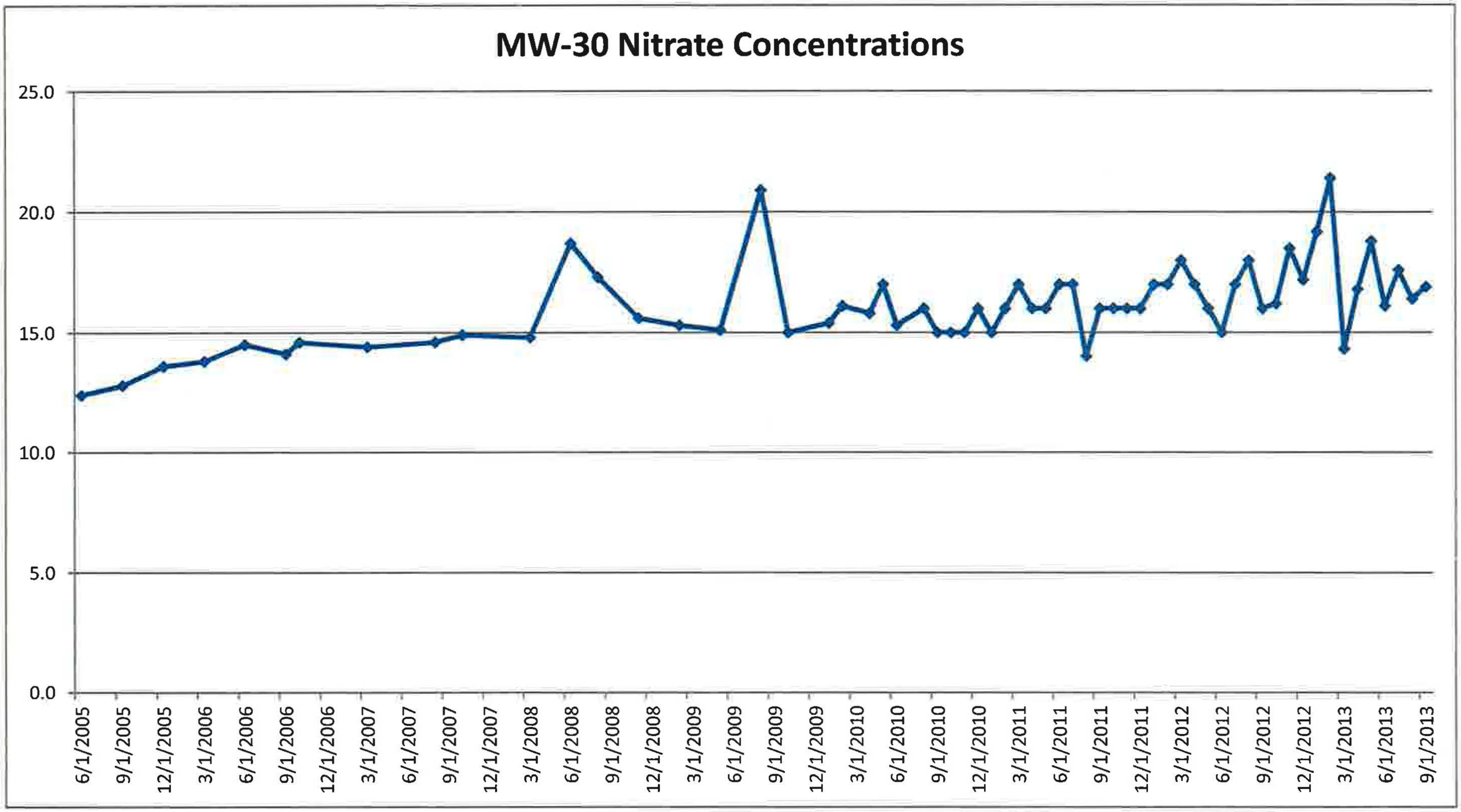

TW4-22 Chloride Concentrations
700
600
500
400
300
200
100
0
mg/L
2/28/2007
2/29/2008
2/28/2009
2/28/2010
2/28/2011
2/29/2012
2/28/2013

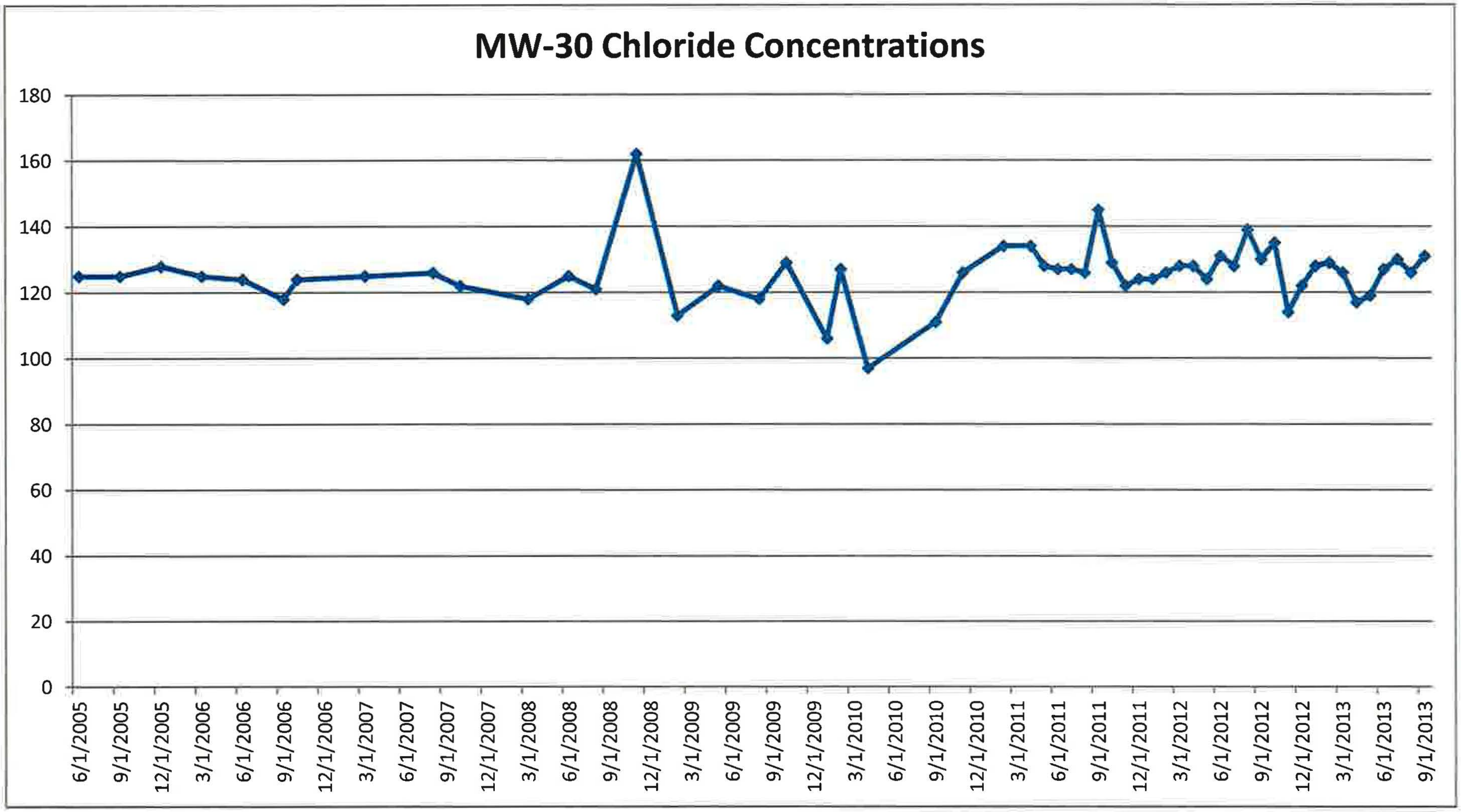

TW4-24 Nitrate Concentrations
mg/L
50
45
40
35
30
25
20
15
10
5
0
6/27/2007
6/27/2008
6/27/2009
6/27/2010
6/27/2011
6/27/2012
6/27/2013

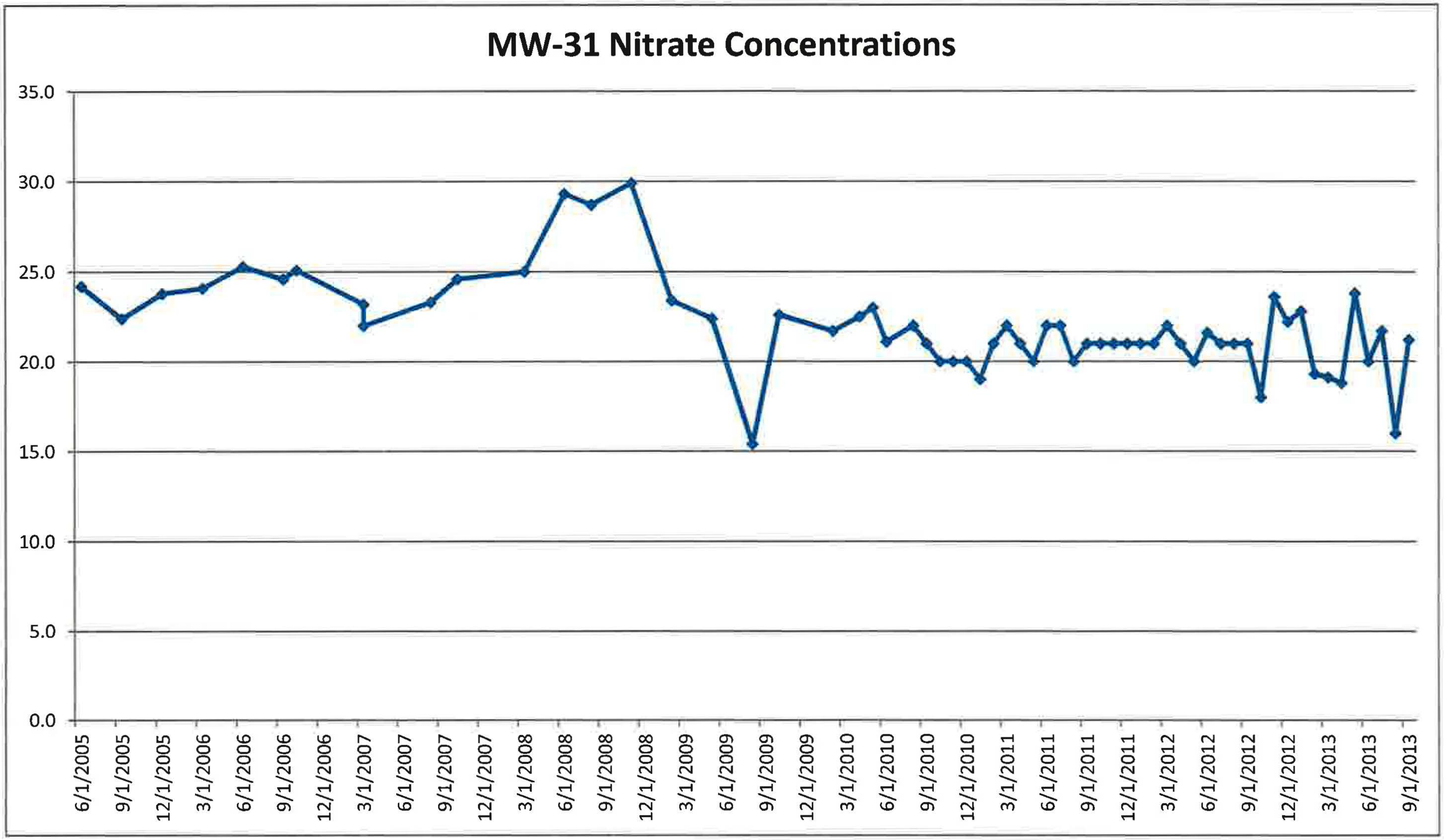

TW4-24 Chloride Concentrations
mg/L
1400
1200
1000
800
600
400
200
0
6/27/2007
6/27/2008
6/27/2009
6/27/2010
6/27/2011
6/27/2012
6/27/2013


TW4-25 Nitrate Concentrations
mg/L
25
20
15
10
5
0
6/27/2007
6/27/2008
6/27/2009
6/27/2010
6/27/2011
6/27/2012
6/27/2013

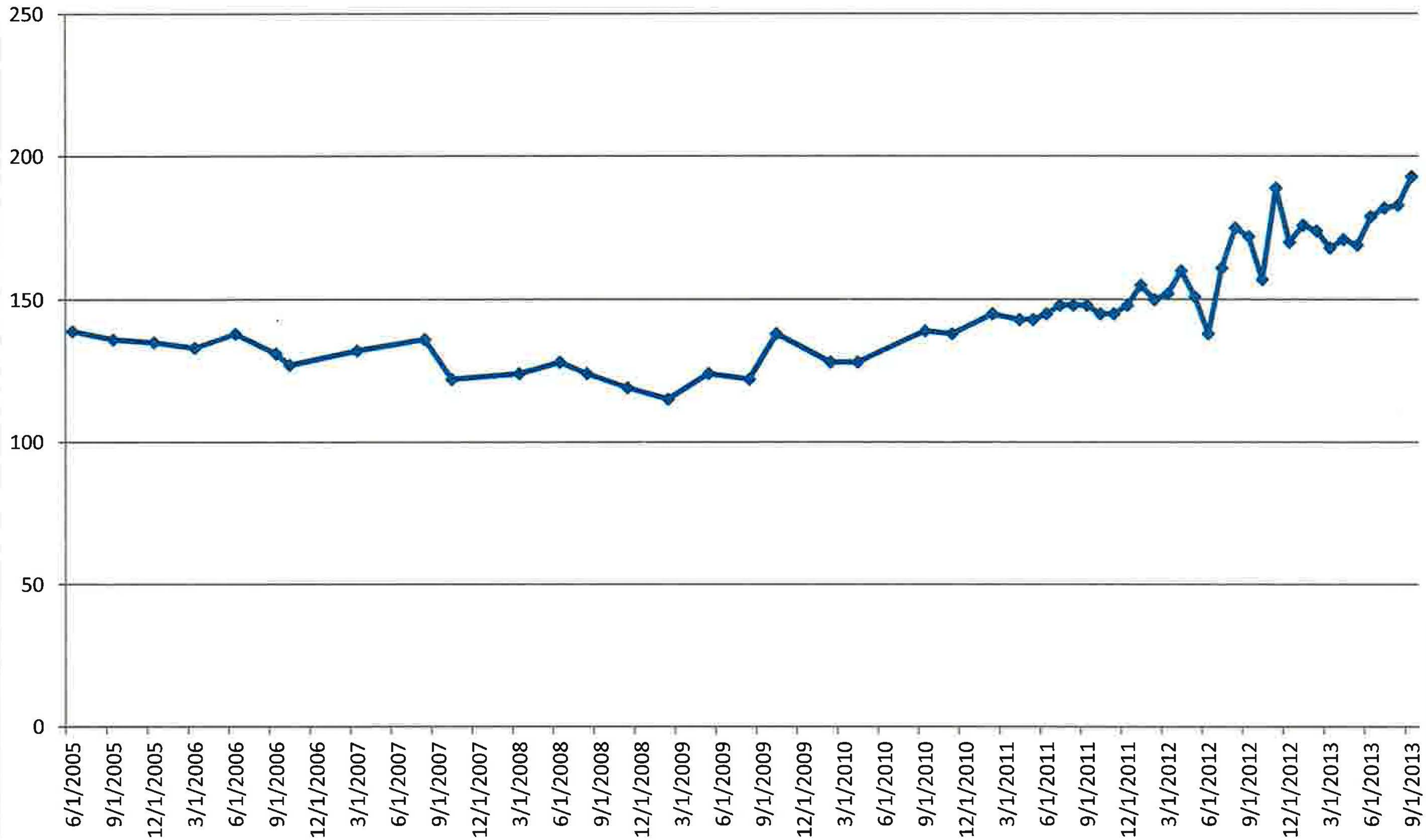

TW4-25 Chloride Concentrations
mg/L
0
50
100
150
200
250
300
350
400
450
6/27/2007
6/27/2008
6/27/2009
6/27/2010
6/27/2011
6/27/2012
6/27/2013


MW-30 Nitrate Concentrations
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013


MW-30 Chloride Concentrations
180
160
140
120
100
80
60
40
20
0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013


MW-31 Nitrate Concentrations
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013

MW-31 Chloride Concentrations



Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, November 18, 2013 12:09 PM
To: Rusty Lundberg
Cc: 'Phillip Goble'; 'Dean Henderson'; Harold Roberts; Frank Filas, P.E; David Frydenlund; Jo Ann Tischler; Dan Hillsten; Harold Roberts; David Turk; Jaime Massey
Subject: Transmittal of CSV Files White Mesa Mill 2013 Q3 Nitrate Monitoring
Attachments: 1308556-EDD.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 2013, 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