Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

May 19, 2014

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 1st Quarter 2014 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 1st Quarter of 2014 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

White Mesa Uranium Mill

Nitrate Monitoring Report

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

1st Quarter
(January through March)
2014

Prepared by:

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

May 19, 2014

TABLE OF CONTENTS

LIST OF TABLES

INDEX OF TABS

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 first quarter of 2014. This report meets the requirements of the SCO, State of UDEQ Docket No. UGW12-04 and is the document which covers nitrate corrective action and monitoring activities during the first quarter of 2014.

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)

* Wells TW4-22, TW4-24, TW4-25 are chloroform investigation wells (wells installed and sampled primarily for the chloroform investigation) 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. Wells 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, chloroform 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 the 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 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

The 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.

Analytical results for the 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 the 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 the 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, field work conformed with the QAP purging and field measurement requirements. A summary of the purging techniques employed and field measurements taken is described below:

Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)
Wells TWN-01, TWN-04, 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.

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

Continuously Pumped Wells
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.

- Four 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 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 ("RLs") 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 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.

The 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 two 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°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 (interpolated by kriging) 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. 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 zones receiving primarily low constituent concentration pond water will result in wells intercepting the zones 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 the short term until mass reduction resulting from pumping and natural attenuation eventually reduce concentrations.

In addition to changes in the flow regime caused by reduced wildlife pond recharge, perched flow directions are 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.

Pumping of nitrate wells TW4-22, TW4-24, TW4-25, and TWN-2 began during the first quarter of 2013. 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

During the previous quarter, a large decrease in the reported water level at nitrate pumping well TW4-25 resulted in an apparently large cone of depression near that well. The large decrease in water level at TW4-25 combined with decreases at nitrate pumping wells TW4-22 and TW4-24, and adjacent chloroform pumping wells TW4-19 and TW4-20, resulted in an apparently large increase in the combined influence of the nitrate and chloroform pumping systems. During the current quarter, owing primarily to an increase in reported water level at TW4-25, the apparent capture of the nitrate pumping system, and the apparent combined capture of both nitrate and chloroform pumping systems (provided under Tab C) has decreased compared to last quarter. Decreases in water levels at nitrate pumping wells TW4-22 and TW4-24 indicate that the capture associated with nitrate pumping wells is developing and is expected to increase over time as water levels decline due to pumping and to cessation of water delivery to the northern wildlife ponds. The long term interaction between nitrate and chloroform pumping systems will, however, require more data to be collected as part of routine monitoring.

As discussed above, variable permeability conditions are 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 wells TW4-29, TW4-30, TW4-31, TW4-33, and TW4-34, is one to 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 the start of 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). 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 5528.8 feet above mean sea level ["ft amsl"]) is approximately 11 feet lower than the water level at TW4-6 (approximately 5539.7 ft amsl) and 15 feet lower than at TW4-4 (approximately 5544.1 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 5527.6 ft amsl, similar to TW4-14 (approximately 5528.8 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 (5538.5 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5539.7 feet amsl), and TW4-23 (5542.4 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, TW4-31, TW4-33 and TW4-34 which indicate that the permeability of these wells is one to two orders of magnitude higher than the permeability of TW4-27 (see HGC, January 23, 2014; Contamination Investigation Report, TW4-12 and TW4-27 Areas, White Mesa Uranium Mill Near Blanding, Utah).

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

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

A comparison of the water table contour maps for the current (first quarter of 2014) to the water table contour maps for the previous quarter (fourth quarter of 2013) indicates slightly less drawdown related to operation of chloroform pumping wells TW4-19 and TW4-20 and substantially less drawdown associated with nitrate pumping well TW4-25. Nitrate pumping

wells TW4-22, TW4-24, TW4-25, and TWN-2 were brought into operation during the first quarter of 2013 and their impact on water level patterns was not clearly evident until the previous quarter. During the previous quarter (as will be discussed below and in Section 4.2.1), a large decrease in water level at nitrate pumping well TW4-25 resulted in an apparently large cone of depression near that well. The large decrease in water level at TW4-25 combined with decreases at nitrate pumping wells TW4-22 and TW4-24, and adjacent chloroform pumping wells TW4-19 and TW4-20, resulted in apparently large cones of depression associated with these wells. During the current quarter, owing primarily to an increase in reported water level at TW4-25, the apparent capture of the nitrate pumping system, and the apparent combined capture of both nitrate and chloroform pumping systems (provided under Tab C) has decreased compared to last quarter. Except for a few locations, water levels and water level contours for the site have not changed significantly since the last quarter. As discussed in Section 4.1.1, pumping at chloroform well 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 2.6 feet and 4.5 feet occurred in chloroform pumping well MW-26 and nitrate pumping well TW4-24, respectively. Furthermore, increases of 2.7 feet, 3.1 feet and 23.8 feet occurred in chloroform pumping well TW4-20 and nitrate pumping wells TWN-2 and TW4-25, respectively. Changes in water levels at other pumping wells (chloroform pumping wells MW-4, TW4-4 and TW4-19, and nitrate pumping well TWN-22) 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 decreases in water levels (increases in drawdown) at chloroform pumping wells MW-26 and nitrate pumping well TW4-24 have increased the apparent capture of these wells relative to other pumping wells. The apparently large cone of depression associated with nitrate pumping well TW4-25 has decreased as a result of the 23.8 foot water level increase since the previous quarter. Furthermore, the apparent capture associated with chloroform pumping well TW4-20 has decreased slightly since the previous quarter, due to a water level increase (decrease in drawdown) of approximately 2.7 feet.

Reported water level decreases of 0.11 and 0.2 feet at Piezometers 2 and 3 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 reported water level decreases of 1.5 feet and 2.1 feet at Piezometers 4 and 5 may result from reduced recharge at the southern wildlife pond.

Reported water level increases of 4.8 feet at MW-3, of 3.2 feet at MW-20 and of 4.1 feet at MW-23 between the previous quarter and the current quarter bring these wells back to more typical status. Decreases at these wells last quarter were likely the result of purging and sampling prior to measuring water levels. Because these wells have relatively low permeability, there was likely insufficient time for water levels to have fully recovered from purging prior to water level measurement during the previous quarter.

4.1.3 Hydrographs

Attached under Tab E are hydrographs showing groundwater elevation in each nitrate contaminant investigation monitor well over time. Per the CAP, nitrate wells TWN-6, TWN-14, TWN-16, and TWN-19 have been maintained for depth to groundwater monitoring only. These hydrographs are also included in Tab E.

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 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 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.

As per the CAP, the previous quarter was the first quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. Hydraulic containment and control based on water level data is 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. Capture zones based on water level contours calculated by kriging the current quarter's water level data are provided on water level contour maps included under Tab C. The nitrate capture zones are defined by the bounding stream tubes associated with nitrate pumping wells. Each bounding stream tube represents a flow line parallel to the hydraulic gradient and therefore perpendicular to the intersected water level contours. Assuming that the stream tubes do not change over time, all flow between the bounding stream tubes associated with a particular pumping well is presumed to eventually reach and be removed by that well. Capture associated with chloroform pumping wells is also included on these maps because the influence of the chloroform and nitrate pumping systems overlap.

The specific methodology for calculating the nitrate capture zones is substantially the same as that used since the fourth quarter of 2005 to calculate the capture zones for the chloroform

program, as agreed to by the DRC and International Uranium (USA) Corp. The procedure for calculating nitrate capture zones is as follows:

1) Calculate water level contours by gridding the water level data on approximately 50-foot centers using the ordinary linear kriging method in Surfer™. Default kriging parameters are used that include a linear variogram, an isotropic data search, and all the available water level data for the quarter, including relevant seep and spring elevations.
2) Calculate the capture zones by hand from the kriged water level contours following the rules for flow nets:
   - from each pumping well, reverse track the stream tubes that bound the capture zone of each well,
   - maintain perpedicularity between each stream tube and the kriged water level contours.

During the previous quarter, decreases in water levels at nitrate pumping wells TW4-22 and TW4-24, and adjacent chloroform pumping wells TW4-19 and TW4-20, combined with the large water level decrease at nitrate pumping well TW4-25, created apparently significant cones of depression and detectable capture associated with many of the nitrate pumping wells, in particular TW4-25. The apparent cone of depression at TW4-25 expanded the apparent capture of the chloroform pumping system to the west. The resulting combined capture of both systems appeared to encompass nearly half of the nitrate plume upgradient of TW4-22 and TW4-24.

During the current quarter, owing primarily to an increase in reported water level at TW4-25, the apparent capture of the nitrate pumping system, and the apparent combined capture of both nitrate and chloroform pumping systems (provided under Tab C) has decreased compared to last quarter. Decreases in water levels at nitrate pumping wells TW4-22 and TW4-24 indicate that the capture associated with nitrate pumping wells continues to develop. The capture associated with nitrate pumping wells is expected to increase over time as water levels continue to decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Slow development of hydraulic capture is consistent with and expected based on the relatively low permeability of the perched zone at the site. Furthermore, the presence of the perched groundwater mound, and the apparently anomalously low water level at TWN-7, will influence the definition of capture associated with the nitrate pumping system.

That pumping is likely sufficient to eventually capture the entire plume upgradient of TW4-22 and TW4-24 can be demonstrated by comparing the combined average pumping rates of all nitrate pumping wells for the current quarter to estimates of pre-pumping flow through the nitrate plume near the locations of TW4-22 and TW4-24. The pre-pumping flow calculation is assumed to represent a steady state 'background' condition that includes constant recharge, hydraulic gradients, and saturated thicknesses. Changes after pumping are assumed to result only from pumping. As will be discussed below, the average combined nitrate pumping rate for the quarter exceeds the calculated pre-pumping rate of perched water flow through the nitrate plume by a factor between approximately 1.2 and 2.5.

The cumulative volume of water removed by TW4-22, TW4-24, TW4-25, and TWN-2 during the current quarter was approximately 431,896 gallons. This equates to an average total extraction rate of approximately 3.3 gpm over the 90 day quarter. This average accounts for time periods when pumps were off due to insufficient water columns in the wells.

Pre-pumping flow through the nitrate plume near TW4-22 and TW4-24 was estimated using Darcy's Law to lie within a range of approximately 1.31 gpm to 2.79 gpm. Calculations were based on an average hydraulic conductivity range of 0.15 feet per day (ft/day) to 0.32 ft/day (depending on the calculation method), a pre-pumping hydraulic gradient of 0.025 feet per foot (ft/ft), a plume width of 1,200 feet, and a saturated thickness (at TW4-22 and TW4-24) of 56 feet. The hydraulic conductivity range was estimated by averaging the results obtained from slug test data that were collected automatically by data loggers from wells within the plume and analyzed using the KGS unconfined slug test solution available in Aqtesolve™ (see Hydro Geo Chem, Inc. [HGC], August 3, 2005: Perched Monitoring Well Installation and Testing at the White Mesa Uranium Mill, April Through June 2005; HGC, March 10, 2009: Perched Nitrate Monitoring Well Installation and Hydraulic Testing, White Mesa Uranium Mill; and HGC, March 17 2009: Letter Report to David Frydenlund, Esq, regarding installation and testing of TW4-23, TW4-24, and TW4-25) These results are summarized in Table 6. Data from fourth quarter 2012 were used to estimate the pre-pumping hydraulic gradient and saturated thickness. These data are also summarized in Tables 7 and 8.

The average hydraulic conductivity was estimated to lie within a range of 0.15 ft/day to 0.32 ft/day. Averages were calculated four ways. As shown in Table 6 arithmetic and geometric averages for wells MW-30, MW-31, TW4-22, TW4-24, TW4-25, TWN-2, and TWN-3 were calculated as 0.22 and 0.15 ft/day, respectively. Arithmetic and geometric averages for a subset of these wells (MW-30, MW-31, TW4-22, and TW4-24) were calculated as 0.32 and 0.31 ft/day, respectively. The lowest value, 0.15 ft/day, represented the geometric average of the hydraulic conductivity estimates for all the plume wells. The highest value, 0.32 ft/day, represented the arithmetic average for the four plume wells having the highest hydraulic conductivity estimates (MW-30, MW-31, TW4-22, and TW4-24).

Pre-pumping hydraulic gradients were estimated at two locations; between TW4-25 and MW-31 (estimated as 0.023 ft/ft), and between TWN-2 and MW-30 (estimated as 0.027 ft/ft). These results were averaged to yield the value used in the calculation (0.025 ft/ft). The pre-pumping saturated thickness of 56 feet was an average of pre-pumping saturated thicknesses at TW4-22 and TW4-24.

The hydraulic gradient and saturated thickness used in the calculations are assumed to represent a steady state 'background' condition. However, assumption of a steady state 'background' is inconsistent with the cessation of water delivery to the northern wildlife ponds, located upgradient of the nitrate plume. Hydraulic gradients and saturated thicknesses within the plume are declining as a result of two factors: reduced recharge from the ponds, and the effects of nitrate pumping. Separating the impacts of nitrate pumping from the impacts of reduced recharge from the ponds is problematic. Should pumping cease and 'background' conditions be allowed to re-establish, however, smaller hydraulic gradients and saturated thicknesses would be expected due to reduced recharge, which would lower estimates of 'background' flow.

As a result, the 'background' flow calculated using the hydraulic gradient of 0.025 ft/ft and saturated thickness of 56 feet is considered conservatively large. Furthermore, using the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities is considered less representative of actual conditions than using the geometric

average conductivity of all of the plume wells. Nitrate pumping may therefore exceed flow through the plume by a factor greater than 2.5, the high end of the calculated range.

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 concentration data, the nitrate plume is under control.

The plume has not migrated downgradient to MW-5 or MW-11 because nitrate was not detected at MW-11 . Between the previous and current quarters, nitrate concentrations decreased slightly in both MW-30 and MW-31. Nitrate in MW-30 decreased from 19.5 mg/L to 18.4 mg/L and nitrate in MW-31 decreased from 23.9 mg/L to 20.6 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.

Chloride has been relatively stable at MW-30 but appears to be increasing at MW-31 (see Tab J and Tab K, discussed in Section 4.2.4). The apparent increase in chloride and stable nitrate at MW-31 suggests a natural attenuation process that is affecting nitrate but not chloride. A likely process that would degrade nitrate but leave chloride unaffected is reduction of nitrate by pyrite. The likelihood of this process in the perched zone is discussed in HGC, December 7 2012; Investigation of Pyrite in the Perched Zone, White Mesa Uranium Mill Site, Blanding, Utah.

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

Changes in nitrate concentration at wells within the nitrate plume since the last quarter have resulted in an overall shrinkage of the plume area. The northeastern extent of the plume has been reduced, with the plume boundary moving to the west away from TW4-19, TW4-20, and TW4-25, primarily due to decreases in concentrations at these wells and TWN-2. Concentrations at chloroform pumping wells TW4-19 and TW4-20 decreased from approximately 4.7 mg/L and 9.6 mg/L, respectively, to 1.6 and 7.6 mg/L. The concentration at nitrate pumping well TWN-2 decreased substantially from approximately 111 mg/L to 42.6 mg/L.

The nitrate concentration at TW4-18 which had been increasing for several quarters, decreased from 14.2 mg/L to 12.8 mg/L suggesting stabilization. However, most of the wells in the vicinity of TW4-18 (and downgradient of the northern wildlife ponds) showed slight increases in nitrate concentrations. Changes in this area are expected to result from changes in pumping and from the cessation of water delivery to the northern wildlife ponds. The reduction in low-nitrate recharge from the ponds appears to be having the anticipated effect of generally increased nitrate concentrations in wells downgradient of the ponds (see Tab J and Tab K, discussed in Section 4.2.4), 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. Nitrate in the area directly downgradient (south to south-southwest) of the northern wildlife ponds 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 in the area is to the southwest in the same approximate direction as the main body of the nitrate plume.

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. With regard to chloroform, the boundary of the northern portion of the chloroform plume has migrated to the west toward nitrate pumping well TW4-24 since pumping began. More details regarding the chloroform data and interpretation are included in the Quarterly Chloroform Monitoring 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 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: MW-26, TW4-16, TW4-21, and TW4-22;

b) Nitrate concentrations have decreased by more than 20% in the following wells compared to last quarter: TW4-19, TW4-20, TW4-25, and TWN-2;

c) Nitrate concentrations have remained within 20% in the following wells compared to last quarter: MW-27, MW-30, MW-31, TW4-5, TW4-10, TW4-18, TW4-24, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18; and

d) MW-11, MW-25, and MW-32 remained non-detect.

As indicated, nitrate concentrations for many 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 had changes in concentration greater than 20%. The latter includes chloroform pumping wells MW-26, TW4-19 and TW4-20 and nitrate pumping wells TW4-22, TW4-25 and TWN-2. TW4-21 is located adjacent to chloroform pumping well TW4-19 and nitrate pumping well TW4-25; TW4-16 is located adjacent to chloroform pumping well MW-26. 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.

The nitrate concentration in nitrate pumping well TWN-2 decreased from approximately 111 mg/L last quarter to 42.6 mg/L this quarter. The nitrate concentration in nitrate pumping well TW4-22 increased from approximately 45 to 55 mg/L, the highest detected in the current quarter, and chloroform decreased from 13,300 µg/L to 12,100 µg/L. Chloroform changes are likely in response to the start-up of nitrate pumping in the first quarter of 2013 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, TW4-19, TW4-20, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east.

As discussed above, the northeastern extent of the plume has been reduced, with the plume boundary moving to the west away from TW4-19, TW4-20, and TW4-25, primarily due to decreases in concentrations at these wells and TWN-2.. Nitrate concentrations outside the nitrate plume exceed 10 mg/L at a few locations: TW4-10 (16.8 mg/L), TW4-12 (18.4 mg/L), TW4-18 (12.8 mg/L), TW4-26 (14.2 mg/L), TW4-27 (31.3 mg/L), and TW4-28 (16.9 mg/L). All these wells are located southeast of the nitrate plume as defined in the CAP and all are separated from the plume by wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at TW4-10, TW4-12, TW4-18, TW4-26, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. Elevated nitrate at TW4-10 and TW4-18 is associated with the chloroform plume and is within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, and TW4-28 is likely related to former cattle ranching operations at the site.

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: TW4-24 (decreased from 1030 mg/L to 809 mg/L) and Piezometer 2 (increased from

9.2 mg/L to 11.4 mg/L). TW4-24 is a nitrate pumping well; fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping. Piezometer 2 is located between the northern wildlife ponds. Increases in concentrations at wells near the northern wildlife ponds are anticipated as a result of reduced dilution caused by cessation of water delivery to the northern wildlife ponds.

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 870 lb of nitrate has been removed from the perched zone since the third quarter of 2010. Prior to the last 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 103 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 103 lb removed during the current quarter, approximately 91 lb, (or 88 %), 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 31,410 lbs, respectively. Mass estimates were calculated within the plume boundaries as defined by the kriged 10 mg/L isocon 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 12,290 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 (31,410 lb) was smaller than the mass estimate during the previous quarter (41,150 lb) by 9,740 lb or 24%. The primary reason for this difference is lower nitrate concentrations measured in many wells within the plume this quarter compared to last quarter, especially TWN-2, which decreased from approximately 111 to 43 mg/L.

Nitrate mass removal by pumping and natural attenuation (expected to result primarily from pyrite oxidation/nitrate reduction) act 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 impacts 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 are included in this report and any nitrate removal realized as part of this pumping is calculated and included in the 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.

On February 17, 2014, EFRI Field Personnel noted that the pump in TW4-19 was not working. The pump was replaced on February 18, 2014 and was fully operational within 24 hours of discovery. Therefore, no notice to DRC was required.

Except for noted above, no other operational problems were observed with the wells or pumping equipment during the quarter.

6.0 CORRECTIVE ACTION REPORT

There are no corrective actions resulting from the 1st quarter 2014 nitrate sampling event.

6.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions in the 4th quarter 2013 nitrate sampling event.

7.0 CONCLUSIONS AND RECOMMENDATIONS

As per the CAP, the current quarter is the second quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. Water level monitoring indicates that the apparent capture of the combined nitrate and chloroform pumping systems has been reduced compared to last quarter primarily due to a recovery in water level (decrease in drawdown) at TW4-25. Monitoring also indicates that capture associated with nitrate pumping wells is developing and is expected to increase over time as water levels decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Furthermore, the evaluation of the long term interaction between nitrate and chloroform pumping systems will require more data to be collected as part of routine monitoring. Slow development of hydraulic capture by the nitrate pumping system is consistent with, and expected based on the relatively low permeability of the perched zone at the site. Definition of capture associated with the nitrate pumping system will also be influenced by the perched groundwater mound and the apparently anomalously low water level at TWN-7.

Current pumping is likely sufficient to eventually capture the entire nitrate plume upgradient of TW4-22 and TW4-24. Pumping during the current quarter exceeds the estimated pre-pumping ('background') rate of perched water flow through the nitrate plume by a factor between approximately 1.2 and 2.5. Because the pre-pumping flow calculations likely overestimate the new 'background' conditions caused by reduced recharge from the northern wildlife ponds, and because the average plume hydraulic conductivity estimate from the low end of the calculated range is likely to be more representative of actual conditions, nitrate pumping may exceed flow through the plume by a factor greater than 2.5.

First quarter, 2014 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 MW-26, TW4-16, TW4-19, TW4-20, TW4-21, TW4-22, TW4-25, and TWN-2 . The concentrations in wells MW-11, MW-25, and MW-32 remained non-detect..

Of the wells showing changes in concentration greater than 20%, MW-26, TW4-19 and TW4-20 are chloroform pumping wells, and TW4-22, TW4-25 and TWN-2 are nitrate pumping wells. TW4-21 is located adjacent to chloroform pumping well TW4-19 and nitrate pumping well TW4-25; and TW4-16 is located adjacent to chloroform pumping well MW-26. Nitrate

concentration fluctuations at pumping wells and adjacent wells likely result in part from the effects of pumping.

The nitrate concentration in nitrate pumping well TWN-2 decreased from approximately 111 mg/L last quarter to 42.6 mg/L this quarter The nitrate concentration in nitrate pumping well TW4-22 increased from approximately 45 to 55 mg/L, the highest detected during the current quarter, and chloroform decreased from 13,300 µg/L to 12,100 µg/L. Chloroform changes are likely in response to the start-up of nitrate pumping in the first quarter of 2013 and are affected by the presence of historically high chloroform concentrations at adjacent, cross-gradient well TW4-20.

Changes in nitrate concentrations at wells within the nitrate plume since the last quarter have resulted in an overall shrinkage of the plume area. The northeastern extent of the plume has been reduced, primarily due to a decrease in concentrations at TWN-2. 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, TW4-19, TW4-20, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east.

Nitrate concentrations at MW-30 and MW-31 continue to be relatively stable, suggesting that plume migration is minimal or absent. Nitrate in MW-30 decreased from 19.5 mg/L to 18.4 mg/L and nitrate in MW-31 decreased from 23.9 mg/L to 20.6 mg/L. Changes in both wells were less than 20% suggesting the changes are within the range typical for sampling and analytical error. Based on the concentration data at MW-5, MW-11, MW-30, and MW-31, the nitrate plume is under control

Chloride has been relatively stable at MW-30 but appears to be increasing at MW-31. The apparent increase in chloride and stable nitrate at MW-31 suggests a natural attenuation process that is affecting nitrate but not chloride. A likely process that would degrade nitrate but leave chloride unaffected is reduction of nitrate by pyrite. The likelihood of this process in the perched zone is discussed in HGC, December 7 2012; Investigation of Pyrite in the Perched Zone, White Mesa Uranium Mill Site, Blanding, Utah.

Nitrate mass removal by pumping and natural attenuation (expected to result primarily from pyrite oxidation/nitrate reduction) act 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 103 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 103 lb removed during the current quarter, approximately 91 lb, (or 88 %), was removed by the nitrate pumping wells.

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 31,410 lb which was lower than the previous quarter's estimate of 41,150 lb by 9,740 lb or 24%. The primary reason for the decrease was the decrease in concentration at TWN-2 from 111 mg/L last quarter to approximately 43 mg/L this quarter.

Nitrate concentrations outside the nitrate plume exceed 10 mg/L at a few locations: TW4-10 (16.8 mg/L), TW4-12 (18.4 mg/L), TW4-18 (12.8 mg/L), TW4-26 (14.2 mg/L), TW4-27 (31.3 mg/L), and TW4-28 (16.9 mg/L). All these wells are located southeast of the nitrate plume as defined in the CAP and all are separated from the plume by wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at TW4-10, TW4-12, TW4-18, TW4-26, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. Elevated nitrate at TW4-10 and TW4-18 is associated with the chloroform plume and is within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, and TW4-28 is likely related to former cattle ranching operations at the site. Increases in both nitrate and chloride concentrations at wells near the northern wildlife ponds are anticipated as a result of reduced dilution caused by cessation of water delivery to the northern wildlife ponds.

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 of 2013. 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 eventually reduce nitrate concentrations within the plume and to further reduce or halt downgradient nitrate migration.

EFRI and its consultants have raised the issues and potential effects associated with cessation of water delivery to the northern wildlife ponds in March, 2012 during discussions with DRC in March 2012 and May 2013. 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.

The net impact of reduced wildlife pond recharge is expected to be beneficial even though it is also expected to result in higher concentrations that will persist until continued mass reduction via pumping and natural attenuation ultimately reduce concentrations. Temporary increases in nitrate concentrations are judged less important than reduced nitrate migration rates. The actual impacts of reduced recharge on concentrations and migration rates will be defined by continued monitoring.

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.

9.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on May 19, 2014.

Energy Fuels Resources (USA) Inc.

By:

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

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.

Table 1

Summary of Well Sampling and Constituents for the Period

Well	Sample Collection Date	Date of Lab Report
Piezometer 01	1/13/2014	1/27/2014
Piezometer 02	1/13/2014	1/27/2014
Piezometer 03	1/13/2014	1/27/2014
TWN-01	1/14/2014	1/27/2014
TWN-02	1/13/2014	1/27/2014
TWN-03	1/15/2014	1/27/2014
TWN-04	1/14/2014	1/27/2014
TWN-07	1/15/2014	1/27/2014
TWN-07R	1/14/2014	1/27/2014
TWN-18	1/14/2014	1/27/2014
TW4-22	1/27/2014	2/10/2014
TW4-24	1/27/2014	2/10/2014
TW4-25	1/27/2014	2/10/2014
TWN-60	1/15/2014	1/27/2014
TW4-60	2/6/2014	2/17/2014
TWN-65	1/14/2014	1/27/2014

Note: All wells were sampled for Nitrate and Chloride.

TWN-60 is a 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
Q4 2013	3.1	0.3	15.8	1.6	3.9	9.4	75.2	6.4	46.3	162.1
Q1 2014	2.7	0.4	4.1	1.2	3.6	11.2	60.4	2.3	17.2	103.1
Well Totals (pounds)	**48.8**	**6.3**	**214.3**	**31.8**	**69.1**	**45.7**	**288.9**	**29.6**	**135.6**	**870.1**

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	69,833.8	4.4
MW-26	23,263.1	10.3
TW4-4	58,992.9	7.9
TW4-19	304,851.0	16.1
TW4-20	18,781.6	9.7
TW4-22	24,532.0	18.1
TW4-24	229,063.9	17.3
TW4-25	129,979.2	17.9
TWN-2	48,320.4	18.3

Table 4

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
Q4 2013	70340.4	5.25	5250	266238.4	1397751674	1397.8	3.08	24207.6	1.38	1380	91625.8	126443557	126	0.28
Q4 2013	69833.8	4.7	4700	264320.9	1242308385	1242.3	2.74	23263.1	2.12	2120	88050.8	186667767	187	0.41
Totals Since Q3 2010	1206004.75						48.83	586182.0						6.29

Highlighted cells are the total for the current quarter

Table 4

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
Q4 2013	403974.0	4.7	4700	1529041.6	7.186E+09	7186	15.84	19280.2	9.64	9640	72975.6	703484369	703	1.55
Q4 2013	304851.0	1.62	1620	1153861.0	1.869E+09	1869	4.12	18781.6	7.56	7560	71088.4	537427971	537	1.18
Totals Since Q3 2010	3912150.4						214.30	562970.1						31.83

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
Q4 2013	60233.6	7.84	7840.00	227984.2	1.8E+09	1787.40	3.94	24952.2	45.2	45200.0	94444.1	4268872280.4	4268.9	9.41
Q4 2013	58992.9	7.28	7280.00	223288.1	1.6E+09	1625.54	3.58	24532.0	54.6	54600.0	92853.6	5069807652.0	5069.8	11.18
Totals Since Q3 2010	1172102.0						69.10	117277.7						45.69

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	5.69	5690.0	552007.8	3140924419.0	3140.9	6.92
Q4 2013	260555.3	34.6	34600.0	986201.8	34122582643.3	34122.6	75.23	126576.5	6.10	6100.0	479092.1	2922461520.3	2922.5	6.44
Q4 2013	229063.9	31.6	31600.0	867006.9	27397416823.4	27397.4	60.40	129979.2	2.16	2160.0	491971.3	1062657947.5	1062.7	2.34
Totals Since Q3 2010	1089674.6						288.92	649076.9						29.61

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
Q4 2013	49979.9	111.0	111000.0	189173.9	20998305286.5	20998.3	46.29	162.07
Q4 2013	**48320.4**	**42.6**	**42600.0**	**182892.7**	**7791229616.4**	**7791.2**	**17.18**	**103.14**
Totals Since Q3 2010	228925.5						135.57	870.15

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	Q4 2013	Q1 2014
MW-30	15.8	15	16	16	17	16	16	17	16	17	18.5	21.4	18.8	17.6	19.5	18.4
MW-31	22.5	21	20	21	22	21	21	21	20	21	23.6	19.3	23.8	21.7	23.9	20.6
MW-5	ND	NS	0.2	NS	0.2	NS	0.2	NS	0.1	NS	ND	NS	ND	NS	0.279	NS
MW-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detected
NS = Not Sampled

TABLE 6
Slug Test Results
(Using KGS Solution and Automatically Logged Data)

Well	K (cm/s)	K (ft/day)
MW-30	1.0E-04	0.28
MW-31	7.1E-05	0.20
TW4-22	1.3E-04	0.36
TW4-24	1.6E-04	0.45
TW4-25	5.8E-05	0.16
TWN-2	1.5E-05	0.042
TWN-3	8.6E-06	0.024
	Average 1	0.22
	Average 2	0.15
	Average 3	0.32
	Average 4	0.31

Notes:

Average 1 = arithemetic average of all wells

Average 2 = geometric average of all wells

Average 3 = arithemetic average of MW-30, MW-31, TW4-22, and TW4-24

Average 4 = geometric average of MW-30, MW-31, TW4-22, and TW4-24

cm/s = centimeters per second

ft/day = feet per day

K = hydraulic conductivity

KGS = KGS Unconfined Slug Test Solution in Aqtesolve™.

TABLE 7
Pre-Pumping Saturated Thicknesses

Well	Depth to Brushy Basin (ft)	Depth to Water Fourth Quarter, 2012 (ft)	Saturated Thickness Above Brushy Basin (ft)
TW4-22	112	53	58
TW4-24	110	55	55

Notes:
ft = feet

TABLE 8
Pre-Pumping Hydraulic Gradients and Flow Calculations

Pathline Boundaries	Path Length (ft)	Head Change (ft)	Hydraulic Gradient (ft/ft)
TW4-25 to MW-31	2060	48	0.023
TWN-2 to MW-30	2450	67	0.027
		average	0.025
		[1] min flow (gpm)	***1.31***
		[2] max flow (gpm)	***2.79***

Notes:

ft = feet

ft/ft = feet per foot

gpm = gallons per minute

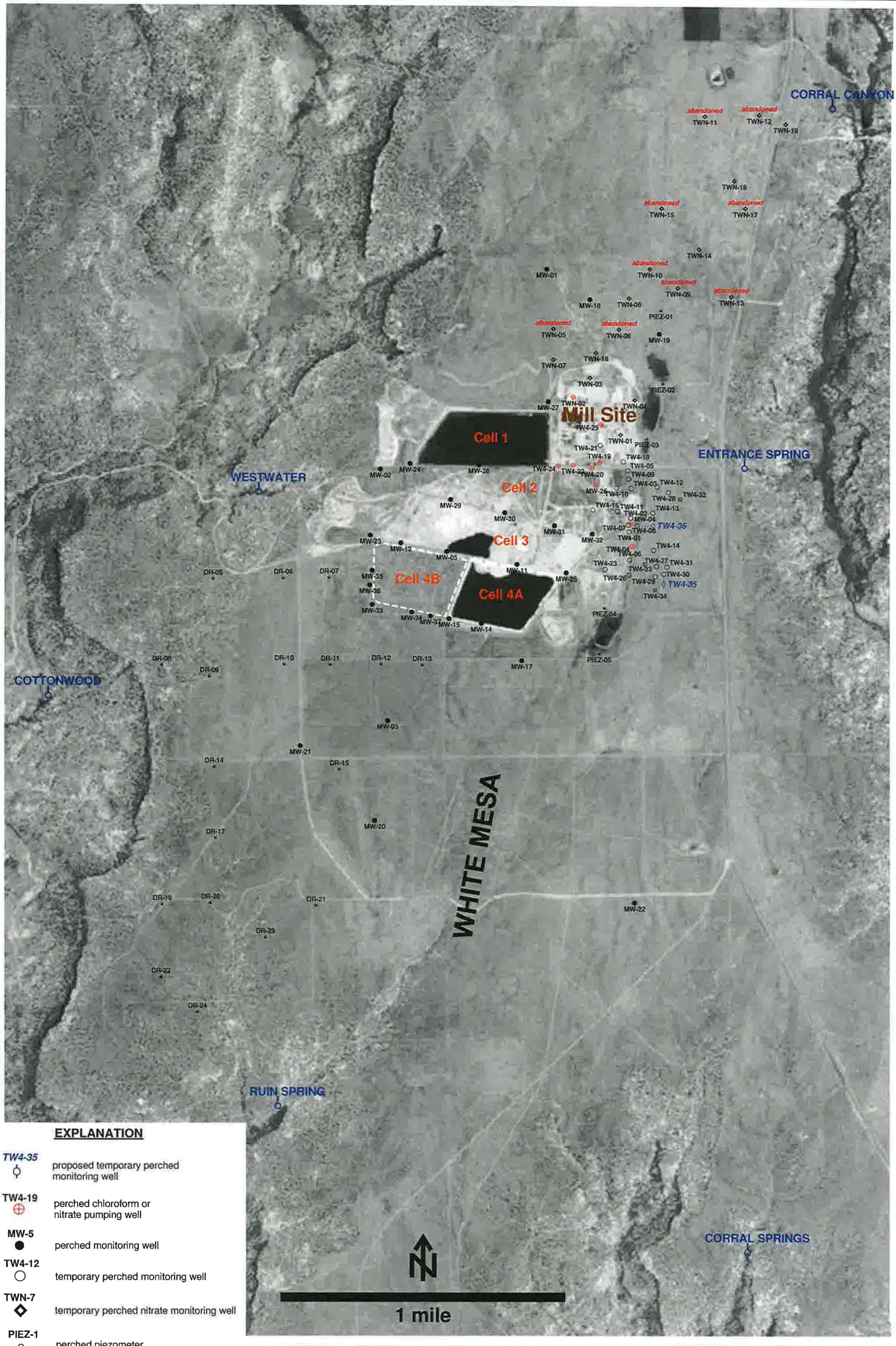
[1] assumes width = 1,200 ft; saturated thickness = 56 ft; K = 0.15 ft/day; and gradient = 0.025 ft/ft

[2] assumes width = 1,200 ft; saturated thickness = 56 ft; K = 0.32 ft/day; and gradient = 0.025 ft/ft

INDEX OF TABS

Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- TW4-35 — proposed temporary perched monitoring well
- TW4-19 — perched chloroform or nitrate pumping well
- MW-5 — perched monitoring well
- TW4-12 — temporary perched monitoring well
- TWN-7 — temporary perched nitrate monitoring well
- PIEZ-1 — perched piezometer
- TW4-32 — temporary perched monitoring well installed September, 2013
- RUIN SPRING — seep or spring

HYDRO GEO CHEM, INC.

SITE PLAN SHOWING PERCHED WELL AND PIEZOMETER LOCATIONS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/Uwelloc14.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order
1st Quarter 2014

Nitrate Samples						Rinsate Samples		
Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth	Total Depth	Name	Date	Sample
TWN-7	0.986	1/15/14	0730		105	TWN-7R	1/14/2014	0957
TWN-1	1.61	1/14/14	1047		112.5	TWN-1R		
TWN-4	1.69	1/14/14	1227		125.7	TWN-4R		
TWN-18	2.15	1/14/14	1312		145	TWN-18R		
TWN-3	23.5	1/15/14	0740		96	TWN-3R		
TWN-2	111.0	1/13/2014	1430		96	TWN-2R		
Duplicate of TWN-04								
Rinsate ~~TWN-60~~		1/15/14	0700					
DI Sample TWN-60								
Piez 1	6.68	1/3/2014	1330					
Piez 2	0.364	1/13/2014	1304					
Piez 3	1.8	1/13/2014	1315					

Samplers: _____

_____

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-01_01132014

Date and Time for Purging: 1/13/2014 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: 63.01

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

Weather Cond.: Sunny

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

Time	1329	Gal. Purged	0
Conductance	2168	pH	9.18
Temp. °C	13.98		
Redox Potential Eh (mV)	271		
Turbidity (NTU)	3.2		

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: 63.90 Sample Time: 1330

See instruction

Comment

Arrived on site at 1323. Tanner and Garrin present to collect samples. Samples collected at 1330. Water was mostly clear.
Left site at 1333

Piez-01 01-13-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: Piez-02_01132014

Date and Time for Purging: 1/13/14 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: 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: 33.60

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

Weather Cond.: Sunny

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

Time	1302	Gal. Purged	0
Conductance	778.1	pH	7.05
Temp. °C	15.41		
Redox Potential Eh (mV)	462		
Turbidity (NTU)	2.9		

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 [34.35] Sample Time [1304]

See instruction

Comment

Arrived on site at 1257. Tanner and Garrin present to collect samples. samples collected at 1304. water was mostly clear. Left site at 1307

Piez-02 01-13-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: Piez-03_01132014

Date and Time for Purging: 1/13/2014 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: 44.90

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

Weather Cond.: Sunny

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

Time	1314	Gal. Purged	0
Conductance	2917	pH	11.82
Temp. °C	14.43		
Redox Potential Eh (mV)	318		
Turbidity (NTU)	18.0		

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		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 [50.86] Sample Time [1315]

See instruction

Comment

Arrived on site at 1309. Tanner and Garrin present to collect samples
Samples collected at 1315. water was a little murky.
Left site at 1318

Piez-03 01-13-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Nitrate 2014

Location (well name): TWN-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-01_01142014

Date and Time for Purging: 1/14/2014 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): 112.50

Depth to Water Before Purging: 58.05

Casing Volume (V) 4" Well: 35.55 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1044	Gal. Purged	55
Conductance	888	pH	7.25
Temp. °C	14.90		
Redox Potential Eh (mV)	229		
Turbidity (NTU)	20		

Time	1045	Gal. Purged	66
Conductance	891	pH	7.29
Temp. °C	14.91		
Redox Potential Eh (mV)	224		
Turbidity (NTU)	22		

Time	1046	Gal. Purged	77
Conductance	897	pH	7.31
Temp. °C	14.90		
Redox Potential Eh (mV)	221		
Turbidity (NTU)	22		

Time	1047	Gal. Purged	88
Conductance	900	pH	7.31
Temp. °C	14.90		
Redox Potential Eh (mV)	219		
Turbidity (NTU)	23		

Volume of Water Purged [88] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [11.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [6.76]

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 [83.35] Sample Time [1047]

See instruction

Comment

Arrived on site at 1036 Tanner and Garrin present for purge and sampling event. Purge began at 1039. Purged well for a total of 8 minutes. Purge ended and samples collected at 1047, water was mostly clear.
Left site at 1051

TWN-01 01-14-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-02_01132014

Date and Time for Purging: 1/13/2014 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: Piez-01

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: 28.03

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

Weather Cond.: Sunny

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

Time	1429	Gal. Purged	0
Conductance	8051	pH	6.90
Temp. °C	14.53		
Redox Potential Eh (mV)	384		
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 [ANAL]

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 [50.33] Sample Time [1430]

See instruction

Comment

Arrived on site at 1426. Tanner and Garrin present to collect samples. Samples collected at 1430. Water was clear. Left site at 1432.

Continuous pumping well

TWN-02 01-13-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-03_01152014

Date and Time for Purging: 1/14/2014 and Sampling (if different): 1/15/2014

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: 36.35

Casing Volume (V) 4" Well: 38.95 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 6°

Time	1343	Gal. Purged	49.50
Conductance	2422	pH	6.95
Temp. °C	14.93		
Redox Potential Eh (mV)	251		
Turbidity (NTU)	12.4		

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

Time	0734	Gal. Purged	0
Conductance	2411	pH	6.70
Temp. °C	13.28		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0742	Gal. Purged	0
Conductance	2404	pH	6.73
Temp. °C	13.26		
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 = [11.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [7.08]

Number of casing volumes evacuated (if other than two) [1.27]

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		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 [93.47] Sample Time [0740]

See instruction

Comment

Arrived on site at 1335 Tanner and Garrin present for purge. Purge began at 1339 Purged well for a total of 4 minutes and 30 seconds Purged well dry. Purge ended at 1343. Water was mostly clear. Left site at 1347
Arrived on site at 0736 Tanner and Garrin present to collect samples. Samples bailed at 0740 Depth to water was 36.89 Left site at 0744

TWN-03 01-14-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-04_01142014

Date and Time for Purging: 1/14/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-01

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: 50.20

Casing Volume (V) 4" Well: 49.30 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1224	Gal. Purged	99
Conductance	1048	pH	7.06
Temp. °C	14.66		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	190		

Time	1225	Gal. Purged	110
Conductance	1047	pH	7.08
Temp. °C	14.66		
Redox Potential Eh (mV)	270		
Turbidity (NTU)	192		

Time	1226	Gal. Purged	121
Conductance	1046	pH	7.08
Temp. °C	14.66		
Redox Potential Eh (mV)	259		
Turbidity (NTU)	192		

Time	1227	Gal. Purged	132
Conductance	1044	pH	7.10
Temp. °C	14.64		
Redox Potential Eh (mV)	251		
Turbidity (NTU)	192		

Volume of Water Purged [132] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [11.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [8.96]

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 [51.90] Sample Time [1227]

See instruction

Comment

Arrived on site at 1212 Tanner and Garrin present for purge and sampling event.
Purge began at 1215. Purged well for a total of 12 minutes
Purge ended and samples collected at 1227. water was mostly clear
Left site at 1231

TWN-04 01-14-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-07_01152014

Date and Time for Purging: 1/14/2014 and Sampling (if different): 1/15/2014

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-07R

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: 86.80

Casing Volume (V) 4" Well: 11.88 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1011	Gal. Purged	16.50
Conductance	1236	pH	6.59
Temp. °C	14.24		
Redox Potential Eh (mV)	334		
Turbidity (NTU)	245		

Before

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

Time	0729	Gal. Purged	0
Conductance	1210	pH	6.49
Temp. °C	13.51		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0732	Gal. Purged	0
Conductance	1212	pH	6.55
Temp. °C	13.57		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 16.50 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 11.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.16

Number of casing volumes evacuated (if other than two): 1.43

If well evacuated to dryness, number of gallons evacuated: 16.50

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: 103.20 Sample Time: 0730

See instruction

Comment

Arrived on site at 1006 Tanner and Garrin present for purge. purge began at 1010 Purged well for a total of 1 minute and 30 seconds. Purged well dry. Purge ended at 1011. water was murky. Left site at 1014

Arrived on site at 0725 Tanner and Garrin present to collect samples. samples bailed at 0730 Left site at 0733 Depth to water was 95.92

TWN-07 01-14-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-07R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-07R_01142014

Date and Time for Purging: 1/14/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-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)

Weather Cond.: Clear

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

Time	0956	Gal. Purged	121
Conductance	0.5	pH	5.91
Temp. °C	11.10		
Redox Potential Eh (mV)	373		
Turbidity (NTU)	2.3		

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 = [11.0]

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 [0] Sample Time [0957]

See instruction

Comment

Arrived on site at 0940 Tanner and Garrin present for Rinsate. Rinsate began at 0945
Pumped 50 Gallons of soap water and 100 Gallons of DI Water.
Rinsate ended and samples collected at 0957 Left site at 1000

TWN-07R 01-14-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID ~~TWN-18_01142013~~ TWN-18_01142014

Date and Time for Purging 1/14/2014 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-04

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 µMHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging 59.20

Casing Volume (V) 4" Well: 56.02 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 6°

Time	1309	Gal. Purged	99
Conductance	2196	pH	6.76
Temp. °C	14.51		
Redox Potential Eh (mV)	255		
Turbidity (NTU)	184		

Time	1310	Gal. Purged	110
Conductance	2199	pH	6.76
Temp. °C	14.50		
Redox Potential Eh (mV)	253		
Turbidity (NTU)	183		

Time	1311	Gal. Purged	121
Conductance	2203	pH	6.76
Temp. °C	14.52		
Redox Potential Eh (mV)	251		
Turbidity (NTU)	182		

Time	1312	Gal. Purged	132
Conductance	2204	pH	6.76
Temp. °C	14.49		
Redox Potential Eh (mV)	251		
Turbidity (NTU)	183		

Volume of Water Purged [132] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [11.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [10.18]

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 [60.80] Sample Time [1312]

See instruction

Comment

Arrived on site at 1258 Tanner and Garrin present for purge and sampling event.
Purge began at 1300. Purged well for a total of 12 minutes.
Purge ended and samples collected at 1312. Water was murky
Left site at 1315

TWN-18 01-14-2014 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: 1ST Quarter Chloroform 2014

Location (well name): TW4-22_0 TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_01272014

Date and Time for Purging: 1/27/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): ~~QF~~ Continuous 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: 80.50

Casing Volume (V) 4" Well: 21.54 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	1402	Gal. Purged	0
Conductance	5847	pH	6.60
Temp. °C	14.33		
Redox Potential Eh (mV)	244		
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		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: 109.93

Sample Time: 1403

See instruction

Comment

Arrived on site at 1358 Tanner and Garrin present to collect samples
Samples collected at 1403 Left site at 1405
water was clear

Continuous Pumping Well

TW4-22 01-27-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2014

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday TH

Field Sample ID: TW4-24_01272014

Date and Time for Purging: 1/27/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ 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: TW4-25

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: 64.11

Casing Volume (V) 4" Well: 31.59 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 8°

Time	1354	Gal. Purged	0
Conductance	5890	pH	6.37
Temp. °C	14.59		
Redox Potential Eh (mV)	233		
Turbidity (NTU)	0		

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

Time		Gal. Purged	
Conductance	~~5890~~	pH	~~6.37~~
Temp. °C	~~14.59~~		
Redox Potential Eh (mV)	~~233~~		
Turbidity (NTU)	~~0~~		

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 = 18.3

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: 68.52 Sample Time: 1355

See instruction

Comment

Arrived on site at 1349 Tanner and Garrin present to collect samples
Samples collected at 1355 Left site at 1357
water was clear

Continuous Pumping well

TW4-24 01-27-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2014

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_01272014

Date and Time for Purging: 1/27/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ 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: TW4-08

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: 59.89

Casing Volume (V) 4" Well: 48.91 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	1337	Gal. Purged	6
Conductance	2900	pH	6.71
Temp. °C	15.74		
Redox Potential Eh (mV)	257		
Turbidity (NTU)	1.9		

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		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: 70.11

Sample Time: 1338

See instruction

Comment

Arrived on site at 1334 Tanner and Garrin present to collect samples.
Samples collected at 1338 Left site at 1342
water was clear

Continuous Pumping Well

TW4-25 01-27-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2014

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_02062014

Date and Time for Purging: 2/6/2014 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-08

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)

Weather Cond.: Clear

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

Time	0844	Gal. Purged	8
Conductance	0.9	pH	7.39
Temp. °C	13.13		
Redox Potential Eh (mV)	335		
Turbidity (NTU)	0.1		

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 [0] Sample Time [0845]

See instruction

Comment

D.I. Blank

TW4-60 02-06-2014 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Nitrate 2014

Location (well name): TWN-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-60_01152014

Date and Time for Purging: 1/15/2014 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-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: 0

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

Weather Cond.: Clear

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

Time	0659	Gal. Purged	0
Conductance	0.5	pH	8.12
Temp. °C	15.37		
Redox Potential Eh (mV)	229		
Turbidity (NTU)	1.5		

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 = [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	☐	☒		☐	☒

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

Final Depth [0] Sample Time [0700]

See instruction

Comment

D.I. Sample

TWN-60 01-15-2014 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: 1st Quarter Nitrate 2014

Location (well name): TWN-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-65_01142014

Date and Time for Purging: 1/14/2014

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-01

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: 50.20

Casing Volume (V) 4" Well: 49.30 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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 = 11.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.96

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: 51.90 Sample Time: 1227

See instruction

Comment

Duplicate of TWN-04

TWN-65 01-14-2014 Do not touch this cell (SheetName)

Tab C

Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map, and Weekly, Monthly and Quarterly Depth to Water Data

NAME: Garrin Palmer, Tanner Holliday, Clayton Most

DATE: 3/27/2014

TIME	WELL	Static level
1309	MW-1	63.81
1438	MW-2	109.80
1456	MW-3	82.67
1457	MW-3A	84.61
1443	MW-5	106.05
1438	MW-11	86.40
1445	MW-12	108.20
1452	MW-14	103.30
1453	MW-15	106.18
1500	MW-17	72.40
1426	MW-18	70.67
1418	MW-19	58.31
1306	MW-20	85.95
1321	MW-22	66.55
1442	MW-23	116.60
1436	MW-24	113.74
955	MW-25	73.44
704	MW-26	68.80
727	MW-27	52.59
1433	MW-28	75.59
1034	MW-29	100.98
1030	MW-30	74.73
1436	MW-31	67.45
951	MW-32	74.27
1002	MW-33	DRY
1459	MW-34	107.79
1443	MW-35	112.22
1514	MW-36	110.50
1456	MW-37	113.85

TIME	WELL	Static Level
718	MW-4	70.42
755	TW4-1	65.38
759	TW4-2	65.80
744	TW4-3	52.61
1050	TW4-4	69.38
739	TW4-5	61.26
804	TW4-6	69.13
751	TW4-7	65.67
942	TW4-8	65.02
741	TW4-9	58.98
736	TW4-10	58.88
801	TW4-11	58.59
818	TW4-12	42.56
829	TW4-13	47.04
831	TW4-14	84.02
704	TW4-15	68.80
947	TW4-16	62.85
951	TW4-17	74.27
1204	TW4-18	62.02
700	TW4-19	66.28
712	TW4-20	67.36
1208	TW4-21	63.34
709	TW4-22	59.64
807	TW4-23	65.02
708	TW4-24	65.50
710	TW4-25	60.12
811	TW4-26	63.15
929	TW4-27	80.39
821	TW4-28	37.17
838	TW4-29	71.72
843	TW4-30	76.83
919	TW4-31	82.33
823	TW4-32	48.60
840	TW4-33	70.24
835	TW4-34	69.45

TIME	WELL	Static Level
1421	PIEZ-1	63.16
1237	PIEZ-2	33.62
1415	PIEZ-3	45.16
1508	PIEZ-4	51.81
1510	PIEZ-5	49.80
1431	TWN-1	58.06
702	TWN-2	28.90
1224	TWN-3	36.50
1230	TWN-4	50.02
	TWN-5	Abandon
1423	TWN-6	76.44
1428	TWN-7	86.41
	TWN-8	Abandon
	TWN-9	Abandon
	TWN-10	Abandon
	TWN-11	Abandon
	TWN-12	Abandon
	TWN-13	Abandon
1253	TWN-14	61.62
	TWN-15	Abandon
1259	TWN-16	46.99
	TWN-17	Abandon
1218	TWN-18	58.58
1150	TWN-19	52.48

TIME	WELL	Static Level
NA	DR-1	ABANDON
NA	DR-2	ABANDON
1232	DR-5	82.83
1229	DR-6	94.29
1446	DR-7	92.10
1237	DR-8	51.02
1240	DR-9	86.25
1242	DR-10	77.91
1453	DR-11	98.20
1451	DR-12	90.08
1449	DR-13	69.55
1249	DR-14	76.08
1246	DR-15	92.65
NA	DR-16	ABANDON
1251	DR-17	64.62
NA	DR-18	ABANDON
1254	DR-19	63.00
1256	DR-20	55.02
1303	DR-21	100.98
1315	DR-22	DRY
1300	DR-23	70.30
1313	DR-24	43.80
NA	DR-25	ABANDON

Weekly Inspection Form

Date 1/6/14 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1433	MW-4	68.51	Flow 4.4 GPM	(Yes) No
			Meter 277683.01	(Yes) No
1429	MW-26	68.95	Flow 10.1 GPM	(Yes) No
			Meter 3878935.52	(Yes) No
1505 1429	TW4-19	72.85	Flow 14.0 GPM	(Yes) No
			Meter 200,771.00	(Yes) No
1425	TW4-20	65.20	Flow 9.5 GPM	(Yes) No
			Meter 612125.22	(Yes) No
1436	TW4-4	69.80	Flow 8.0 GPM	(Yes) No
			Meter 251904.40	(Yes) No
1414	TWN-2	26.00	Flow 18.5 GPM	(Yes) No
			Meter 183040.60	(Yes) No
1421	TW4-22	64.18	Flow 18.0 GPM	(Yes) No
			Meter 94404.60	(Yes) No
1418	TW4-24	68.48	Flow 18.0 GPM	(Yes) No
			Meter 877063.20	(Yes) No
1410	TW4-25	59.55	Flow 17.8 GPM	(Yes) No
			Meter 527939.70	(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 1/9/2014 **Name** Garrin Palmer, Clayton Most

Time	Well	Depth*	Time	Well	Depth*
10:22	MW-4	69.96	09.58	TWN-1	57.61
10:20	TW4-1	64.97	10.05	TWN-2	29.40
10:24	TW4-2	65.85	09:50	TWN-3	36.40
10:17	TW4-3	52.41	09:45	TWN-4	49.76
10:25	TW4-4	68.94	09.55	TWN-7	86.77
10.14	TW4-5	60.70	09:40	TWN-18	58.89
10:37	TW4-6	69.24	13:47	MW-27	52.69
10.21	TW4-7	65.59	1342	MW-30	76.40
10:19	TW4-8	65.17	10:42	MW-31	67.55
10.15	TW4-9	58.40	13:21	TW4-28	37.00
10.11	TW4-10	58.50	13:29	TW4-29	71.84
10.26	TW4-11	68.40	13.33	TW4-30	77.11
13:20	TW4-12	42:40	13.34	TW4-31	82.90
13.25	TW4-13	47.15	13.23	TW4-32	4841
13:26	TW4-14	84.48	13.36	TW4-33	70.35
10.09	TW4-15	65.10	13:31	TW4-34	69.49
10.28	TW4-16	62.43			
10:31	TW4-17	74.30			
10:00	TW4-18	61.50			
1406	TW4-19	69.54			
10:08	TW4-20	77.95			
10:03	TW4-21	61.86			
10:07	TW4-22	58.67			
10:33	TW4-23	64.85			
10.07	TW4-24	66.28			
10:05	TW4-25	59.96			
10.35	TW4-26	63.10			
13.28	TW4-27	80.80			

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

* Depth is measured to the nearest 0.01 feet

4100637

Weekly Inspection Form

Date 1/13/14 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1043	MW-4	68.75	Flow 4.4 GPM	(Yes) No
			Meter 282822.23	(Yes) No
1039	MW-26	88.35	Flow 10.2 GPM	(Yes) No
			Meter 389197.98	(Yes) No
~~1039~~ 1151	TW4-19	72.40	Flow 14.0 GPM	(Yes) No
			Meter 2052649.30	(Yes) No
1034	TW4-20	67.00	Flow 9.8 GPM	(Yes) No
			Meter 613681.37	(Yes) No
1046	TW4-4	70.10	Flow 8.2 GPM	(Yes) No
			Meter 256451.10	(Yes) No
1027	TWN-2	28.60	Flow 18.0 GPM	(Yes) No
			Meter 187682.45	(Yes) No
1034	TW4-22	59.62	Flow 17.8 GPM	(Yes) No
			Meter 96238.40	(Yes) No
1031	TW4-24	81.73	Flow 18.1 GPM	(Yes) No
			Meter 897313.40	(Yes) No
1023	TW4-25	60.90	Flow 17.9 GPM	(Yes) No
			Meter 538109.70	(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.

439556

Weekly Inspection Form

Date 1/20/14 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1220	MW-4	71.20	Flow 4.4 GPM	(Yes) No
			Meter 288524.28	(Yes) No
1215	MW-26	65.91	Flow 10.0 GPM	(Yes) No
			Meter 391512.76	(Yes) No
1310	TW4-19	58.96	Flow 14.0 GPM	(Yes) No
			Meter 2044776.00	(Yes) No
	TW4-20	64.39	Flow 9.7 GPM	(Yes) No
			Meter 615170.33	(Yes) No
1225	TW4-4	70.10	Flow 8.0 GPM	(Yes) No
			Meter 261272.90	(Yes) No
1201	TWN-2	26.52	Flow 18.0 GPM	(Yes) No
			Meter 191412.40	(Yes) No
1208	TW4-22	59.63	Flow 18.0 GPM	(Yes) No
			Meter 98289.70	(Yes) No
1210	TW4-24	68.05	Flow 18.1 GPM	(Yes) No
			Meter 916317.90	(Yes) No
1157	TW4-25	59.20	Flow 18.2 GPM	(Yes) No
			Meter 548471.70	(Yes) No

Operational Problems (Please list well number): Power to TW4-19 is off because maintenance is replacing secrets. Power will be turned back on before work day is over. Not able to get flow reading. will check when power is back on.

Corrective Action(s) Taken (Please list well number): Power was back on a 1500. Completed inspection at that time.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 1/27/14 **Name** Gerrie Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1425	MW-4	68.35	Flow 4.3 GPM	(Yes) No
			Meter 294005.54	(Yes) No
1420	MW-26	68.65	Flow 10.5 GPM	(Yes) No
			Meter 393278.89	(Yes) No
1310	TW4-19	68.74	Flow 14.00	(Yes) No
			Meter 2068045.00	(Yes) No
1412	TW4-20	64.60	Flow 10.2 GPM	(Yes) No
			Meter 616683.78	(Yes) No
1433	TW4-4	69.99	Flow 7.6 GPM	(Yes) No
			Meter 265926.11	(Yes) No
1349	TWN-2	29.15	Flow 17.8 GPM	(Yes) No
			Meter 195205.30	(Yes) No
1402	TW4-22	80.50	Flow 18.0 GPM	(Yes) No
			Meter 100125.40	(Yes) No
1365	TW4-24	64.11	Flow 18.3 GPM	(Yes) No
			Meter 935127.00	(Yes) No
1338	TW4-25	59.89	Flow 17.9 GPM	(Yes) No
			Meter 558872.60	(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 2/3/2014 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1454	MW-4	74.82	Flow 4.4 GPM	(Yes) No
			Meter 299510.93	(Yes) No
1451	MW-26	66.40	Flow 10.0 GPM	(Yes) No
			Meter 395616.58	(Yes) No
1420	TW4-19	68.74	Flow 14.00 GPM	(Yes) No
			Meter 2095437.00	(Yes) No
1448	TW4-20	64.25	Flow 10.0 GPM	(Yes) No
			Meter 618183.14	(Yes) No
1458	TW4-4	70.10	Flow 8.0 GPM	(Yes) No
			Meter 270690.70	(Yes) No
1436	TWN-2	26.02	Flow 18.1 GPM	(Yes) No
			Meter 199094.50	(Yes) No
1445	TW4-22	59.68	Flow 18.4 GPM	(Yes) No
			Meter 102164.70	(Yes) No
1441	TW4-24	67.55	Flow 18.0 GPM	(Yes) No
			Meter 953504.10	(Yes) No
1432	TW4-25	59.00	Flow 18.6 GPM	(Yes) No
			Meter 569022.00	(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 2/10/14 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1210	MW-4	74.65	Flow 4.4 GPM	(Yes) No
			Meter 304943.84	(Yes) No
1207	MW-26	66.50	Flow 10.5 GPM	(Yes) No
			Meter 397425.17	(Yes) No
1242	TW4-19	68.44	Flow 13.7 GPM	(Yes) No
			Meter 2121973.00	(Yes) No
1204	TW4-20	64.73	Flow 9.6 GPM	(Yes) No
			Meter 619531.20	(Yes) No
1212	TW4-4	78.42	Flow 8.0 GPM	(Yes) No
			Meter 275226.70	(Yes) No
1154	TWN-2	26.60	Flow 18.2 GPM	(Yes) No
			Meter 202736.40	(Yes) No
1201	TW4-22	~~69.5~~ 59.56	Flow 18.4 GPM	(Yes) No
			Meter 103923.60	(Yes) No
1158	TW4-24	67.81	Flow 18.1 GPM	(Yes) No
			Meter 971219.20	(Yes) No
1150	TW4-25	59.10	Flow 17.8 GPM	(Yes) No
			Meter 579090.70	(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 2/17/14 **Name** Garrin Palmer, Tanner Halliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1216	MW-4	78.20	Flow 4.4 GPM	(Yes) No
			Meter 310539.14	(Yes) No
1213	MW-26	66.27	Flow 18.1 GPM	(Yes) No
			Meter 398549.37	(Yes) No
1234	TW4-19	62.30	Flow 17.5 GPM	(Yes) No
			Meter 2133674.00	(Yes) No
1210	TW4-20	64.40	Flow 9.8 GPM	(Yes) No
			Meter 621083.16	(Yes) No
1219	TW4-4	68.94	Flow 7.9 GPM	(Yes) No
			Meter 280031.70	(Yes) No
1158	TWN-2	27.03	Flow 18.1 GPM	(Yes) No
			Meter 206209.60	(Yes) No
1206	TW4-22	59.72	Flow 18.4 GPM	(Yes) No
			Meter 105826.30	(Yes) No
1203	TW4-24	67.85	Flow 17.8 GPM	(Yes) No
			Meter 988765.00	(Yes) No
1150	TW4-25	59.32	Flow 18.0 GPM	(Yes) No
			Meter 589176.90	(Yes) No

Operational Problems (Please list well number): TW4-19 not pumping. Electricians notified. 2/18/14 pulled pump. ~~and replace~~

Corrective Action(s) Taken (Please list well number): 2/18/14 Pulled pump and replaced. Pump was turned back on at 1030 on 2/18/14.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 2/24/14 **Name** Tanner H, Garrin P

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1445	MW-4	68.64	Flow 4.3	(Yes) No
			Meter 315961.52	(Yes) No
1432	MW-26	68.15	Flow 10.3	(Yes) No
			Meter 400707.71	(Yes) No
1500	TW4-19	69.18	Flow 17.3	(Yes) No
			Meter 2156420.02	(Yes) No
1429	TW4-20	65.12	Flow 10.0	(Yes) No
			Meter 622596.54	(Yes) No
1449	TW4-4	69.85	Flow 8.0	(Yes) No
			Meter 284612.4	(Yes) No
1418	TWN-2	26.98	Flow 18.3	(Yes) No
			Meter 210321.9	(Yes) No
M26	TW4-22	62.10	Flow 18.4	(Yes) No
			Meter 107778.5	(Yes) No
1423	TW4-24	68.00	Flow 17.8	(Yes) No
			Meter 1006067.0	(Yes) No
1415	TW4-25	59.55	Flow 17.0 GPM	(Yes) No
			Meter 599311.5	(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 2-28-14 **Name** Tanner H. Clayton M.

Time	Well	Depth*	Time	Well	Depth*
08:57	MW-4	70.14	08:10	TWN-1	57.96
08:55	TW4-1	65.30	08:16	TWN-2	27.34
08:58	TW4-2	66.00	08:18	TWN-3	36.60
08:52	TW4-3	52.64	08:20	TWN-4	50.11
09:02	TW4-4	69.98	08:27	TWN-7	86.59
08:49	TW4-5	60.96	08:22	TWN-18	58.85
09:03	TW4-6	69.26	08:25	MW-27	52.75
08:56	TW4-7	65.84	08:44	MW-30	75.05
08:54	TW4-8	65.29	08:42	MW-31	67.55
08:51	TW4-9	58.70	09:11	TW4-28	37.27
08:47	TW4-10	58.76	09:19	TW4-29	71.90
09:01	TW4-11	58.65	09:23	TW4-30	77.02
09:10	TW4-12	43.63	09:25	TW4-31	82.72
09:15	TW4-13	47.28	09:13	TW4-32	48.68
09:16	TW4-14	84.25	09:27	TW4-33	70.42
08:37	TW4-15	67.70	09:21	TW4-34	69.64
08:38	TW4-16	62.80			
08:40	TW4-17	74.45			
08:12	TW4-18	61.80			
0928	TW4-19	67.55			
08:35	TW4-20	6502			
08:14	TW4-21	62.26			
08:34	TW4-22	60.63			
09:04	TW4-23	65.05			
08:33	TW4-24	67.37			
08:08	TW4-25	20.01			
09:06	TW4-26	63.25			
09:18	TW4-27	80.60			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 3/3/2014 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1256	MW-4	69.57	Flow 4.3 GPM	(Yes) No
			Meter 321487.59	(Yes) No
1253	MW-26	66.00	Flow 10.0 GPM	(Yes) No
1253			Meter 4022 40.08	(Yes) No
1315	TW4-19	72.85	Flow 18.0 GPM	(Yes) No
			Meter 2188582.04	(Yes) No
1249	TW4-20	65.35	Flow 9.5 GPM	(Yes) No
			Meter 623935.49	(Yes) No
1300	TW4-4	70.02	Flow 7.8 GPM	(Yes) No
			Meter 289048.5	(Yes) No
1240	TWN-2	28.78	Flow 18.6 GPM	(Yes) No
			Meter 214189.3	(Yes) No
1247	TW4-22	59.50	Flow 18.5 GPM	(Yes) No
			Meter 109642.3	(Yes) No
1244	TW4-24	67.40	Flow 18.0 GPM	(Yes) No
			Meter 1022636.1	(Yes) No
1236	TW4-25	66.90	Flow 16.7 GPM	(Yes) No
			Meter 609343.6	(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 3/10/14 **Name** Garrett Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1328	MW-4	70.32	Flow 4.4 GPM	(Yes) No
			Meter 326810.12	(Yes) No
1324	MW-26	67.02	Flow 10.5 GPM	(Yes) No
			Meter 404356.62	(Yes) No
1348	TW4-19	68.41	Flow 18.5 GPM	(Yes) No
			Meter 2219491.00	(Yes) No
1321	TW4-20	65.73	Flow 9.8 GPM	(Yes) No
			Meter 625477.84	(Yes) No
1334	TW4-4	69.48	Flow 7.2 GPM	(Yes) No
			Meter 293787.40	(Yes) No
1308	TWN-2	27.68	Flow 18.7 GPM	(Yes) No
			Meter 217894.90	(Yes) No
1316	TW4-22	59.48	Flow 17.8 GPM	(Yes) No
			Meter 111239.80	(Yes) No
1312	TW4-24	80.14	Flow 9.0 GPM	(Yes) No
			Meter 1039455.0	(Yes) No
1305	TW4-25	61.80	Flow 18.6 GPM	(Yes) No
			Meter 619302.30	(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 3/18/14 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1213	MW-4	67.50	Flow 4.4 GPM	(Yes) No
			Meter 332528.09	(Yes) No
1215	MW-26	65.10	Flow 10.5 GPM	(Yes) No
			Meter 406525.49	(Yes) No
1230	TW4-19	65.14	Flow 18.0 GPM	(Yes) No
			Meter 2242333.00	(Yes) No
1209	TW4-20	59.80	Flow 10.0 GPM	(Yes) No
			Meter 626984.33	(Yes) No
1218	TW4-4	69.40	Flow 7.8 GPM	(Yes) No
			Meter 298590.20	(Yes) No
1157	TWN-2	27.60	Flow 18.6 GPM	(Yes) No
			Meter 222017.40	(Yes) No
1206	TW4-22	59.23	Flow 18.1 GPM	(Yes) No
			Meter 113744.40	(Yes) No
1203	TW4-24	66.96	Flow 17.4 GPM	(Yes) No
			Meter 1058274.20	(Yes) No
1153	TW4-25	59.36	Flow 18.1 GPM	(Yes) No
			Meter 630679.90	(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 3/24/14 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1323	MW-4	70.89	Flow 4.4 GPM	(Yes) No
			Meter 337202.35	(Yes) No
1320	MW-26	68.17	Flow 10.5 GPM	(Yes) No
			Meter 407674.40	(Yes) No
1342	TW4-19	64.30	Flow 18.1 GPM	(Yes) No
			Meter 2259040.00	(Yes) No
1317	TW4-20	66.90	Flow 9.0 GPM	(Yes) No
			Meter 628172.54	(Yes) No
1327	TW4-4	69.98	Flow ~~8.0~~ 8.0 GPM	(Yes) No
			Meter 302493.90	(Yes) No
1305	TWN-2	28.19	Flow 18.7 GPM	(Yes) No
			Meter 225227.30	(Yes) No
1313	TW4-22	59.60	Flow 17.6 GPM	(Yes) No
			Meter 115060.40	(Yes) No
1309	TW4-24	67.45	Flow 18.0 GPM	(Yes) No
			Meter 1072634.11	(Yes) No
1301	TW4-25	62.50	Flow 18.6 GPM	(Yes) No
			Meter 639111.80	(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

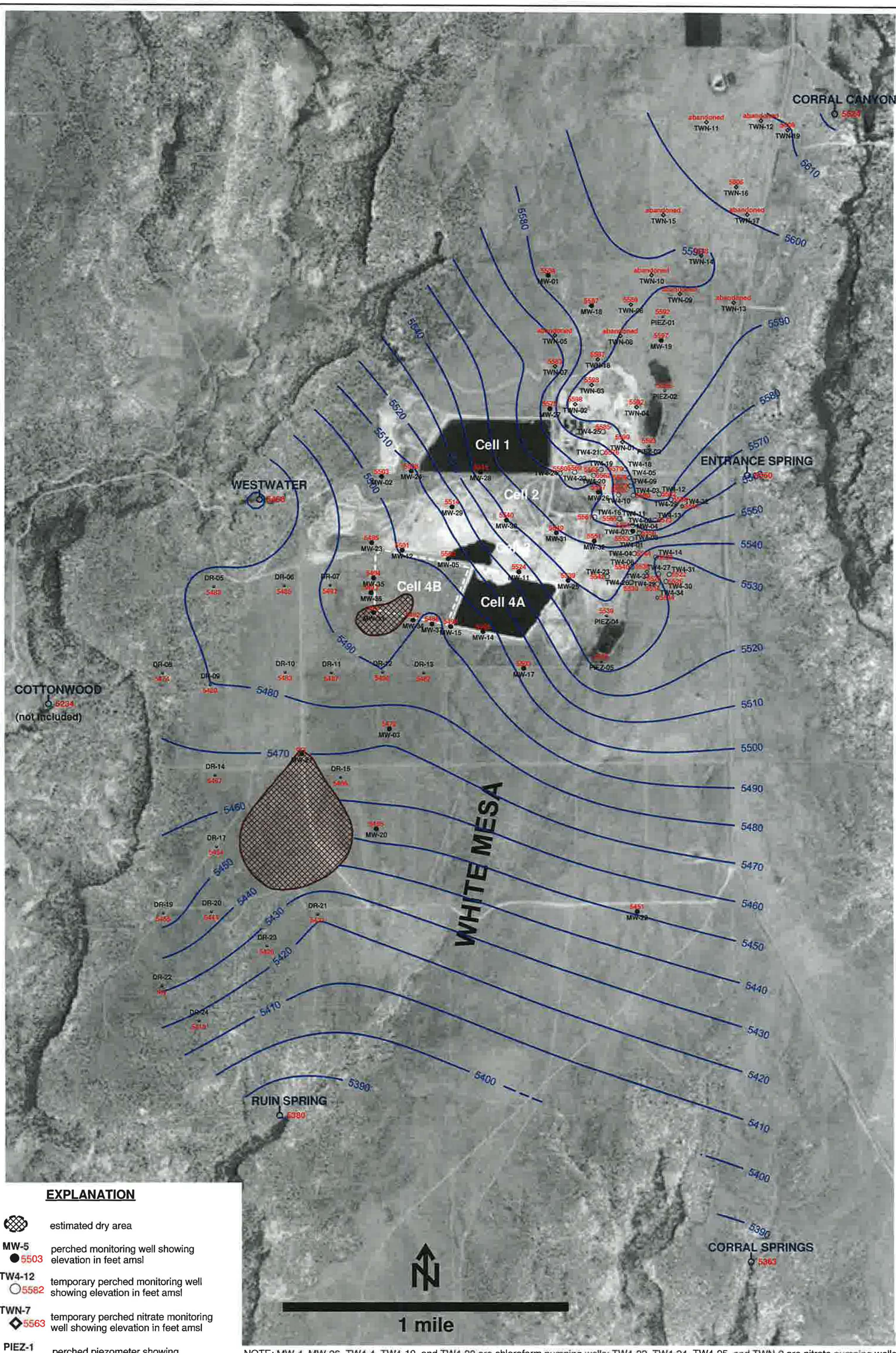
Date 3/31/14 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1414	MW-4	69.18	Flow 4.4 GPM	(Yes) No
			Meter 342766.37	(Yes) No
1411	MW-26	67.19	Flow 10.5 GPM	(Yes) No
			Meter 409794.90	(Yes) No
1458	TW4-19	69.42	Flow 18.1 GPM	(Yes) No
			Meter 2279149.00	(Yes) No
1406	TW4-20	78.40	Flow 9.1 GPM	(Yes) No
			Meter 629683.06	(Yes) No
1415	TW4-4	70.14	Flow 8.0 GPM	(Yes) No
			Meter 307062.10	(Yes) No
1354	TWN-2	28.00	Flow 18.6 GPM	(Yes) No
			Meter 228925.50	(Yes) No
1403	TW4-22	82.25	Flow 18.0 GPM	(Yes) No
			Meter 117277.68	(Yes) No
1359	TW4-24	68.10	Flow 18.7 GPM	(Yes) No
			Meter 1089674.60	(Yes) No
1352	TW4-25	60.29	Flow 18.0 GPM	(Yes) No
			Meter 619076.90	(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.



EXPLANATION

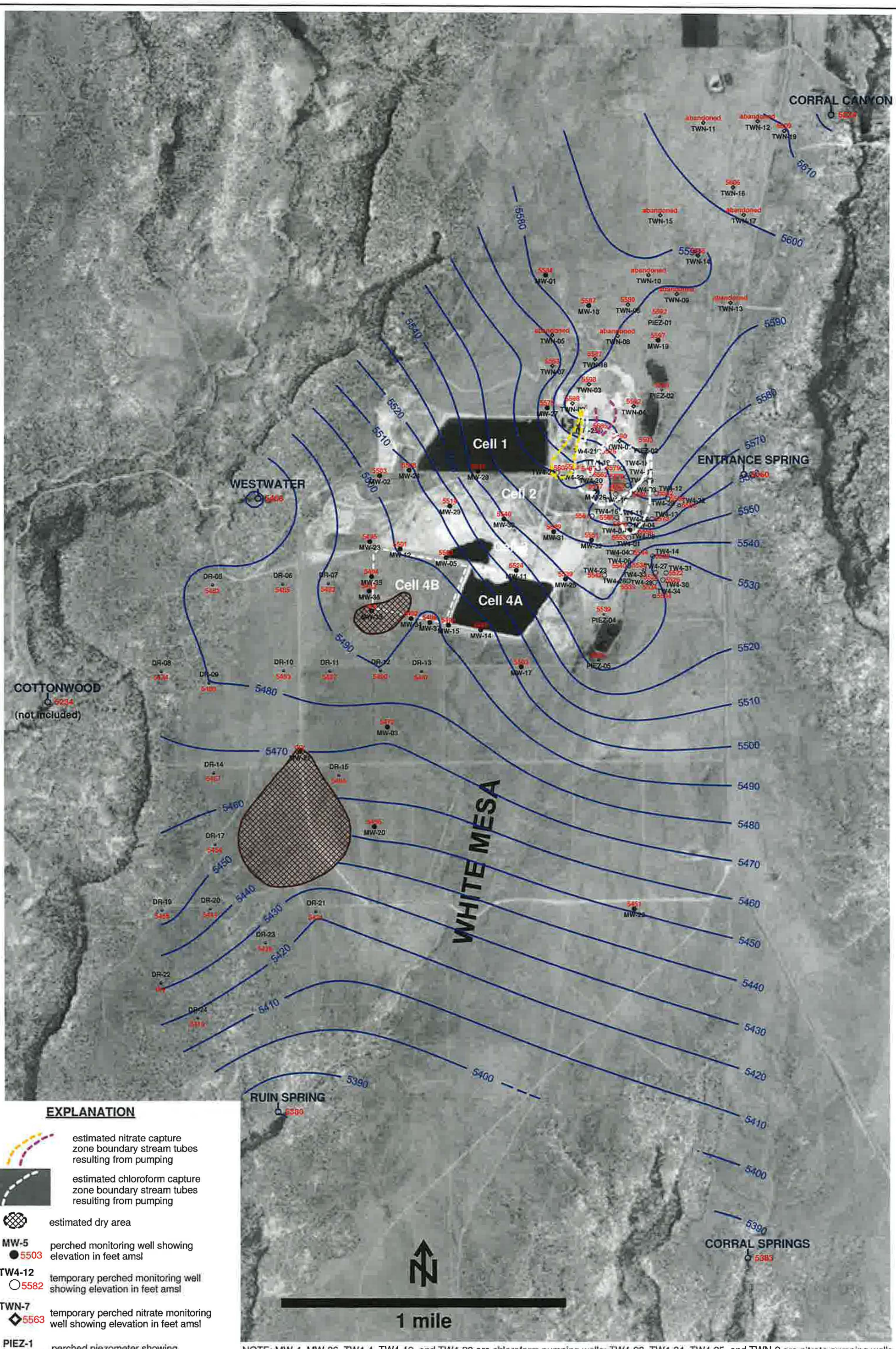
- estimated dry area
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5582 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◇ 5563 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⊖ 5592 — perched piezometer showing elevation in feet amsl
- **TW4-32** ☼ 5563 — temporary perched monitoring well installed September, 2013 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring 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 1st QUARTER, 2014 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/Uwl0314.srf	C-1



EXPLANATION

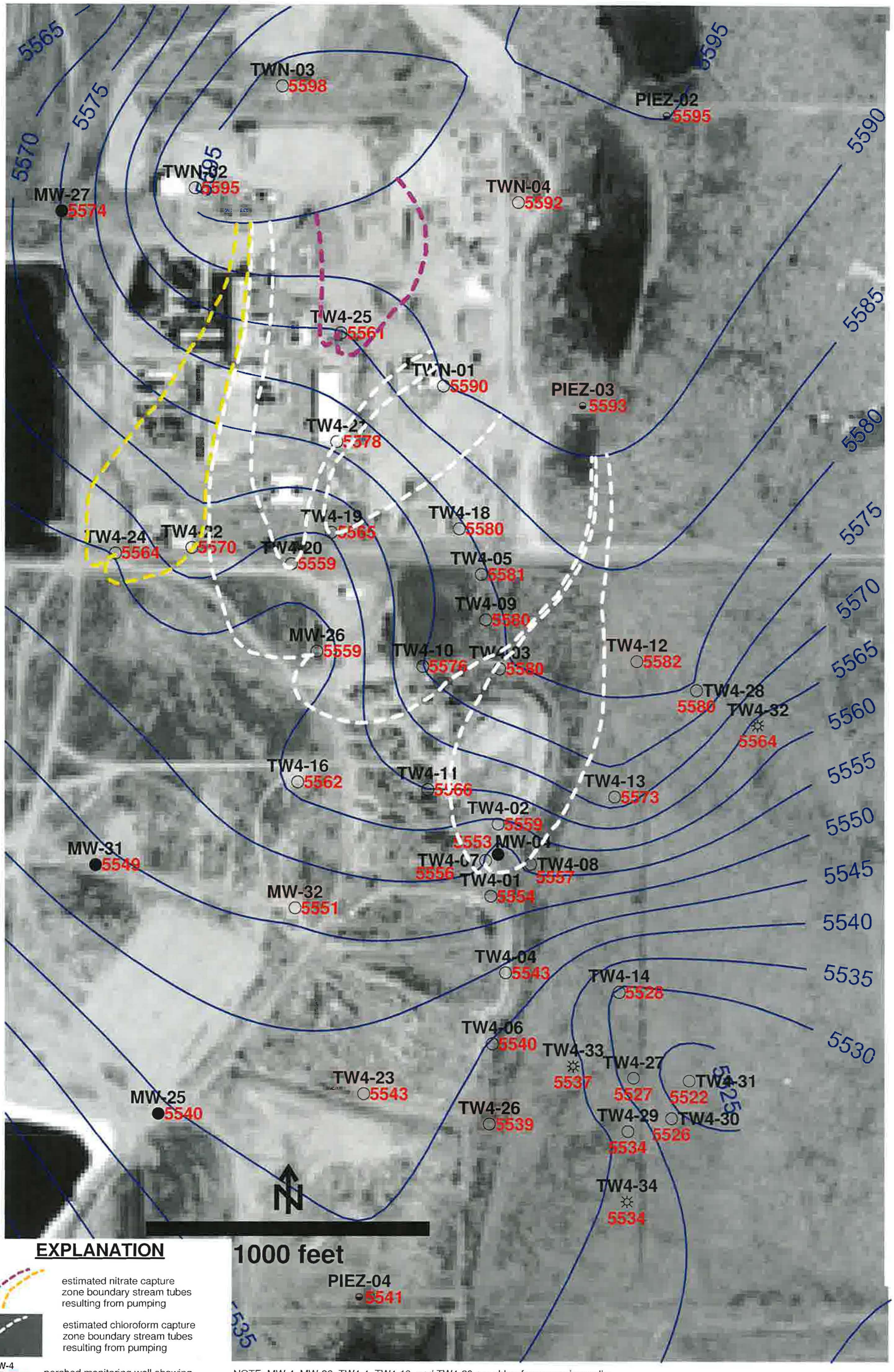
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated chloroform capture zone boundary stream tubes resulting from pumping
- estimated dry area
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5582 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◇ 5563 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ◒ 5592 — perched piezometer showing elevation in feet amsl
- **TW4-32** ☼ 5563 — temporary perched monitoring well installed September, 2013 showing elevation in feet amsl
- **RUIN SPRING** 🌡 5380 — seep or spring 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 1st QUARTER, 2014 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/nitrate/Uwl0314cz2.srf	C-2



EXPLANATION

- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated chloroform capture zone boundary stream tubes resulting from pumping
- MW-4 ● 5551 — perched monitoring well showing elevation in feet amsl
- TW4-1 ○ 5553 — temporary perched monitoring well showing elevation in feet amsl
- PIEZ-2 ◒ 5595 — perched piezometer showing elevation in feet amsl
- TW4-32 ☼ 5563 — 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

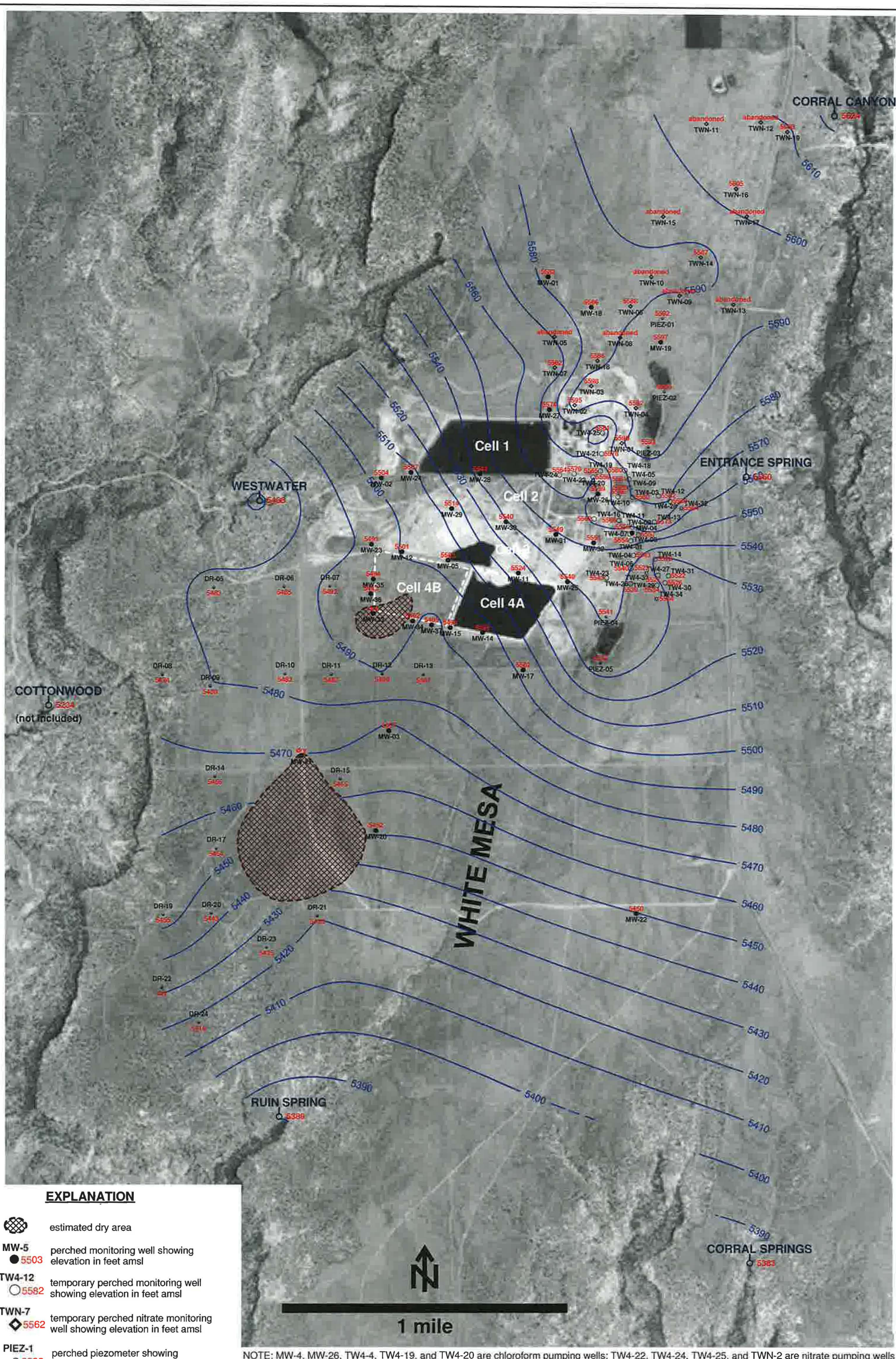
HYDRO GEO CHEM, INC.

KRIGED 1st QUARTER, 2014 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/nitrate/U0314cznt.srf	C-3

Tab D

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

- estimated dry area
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5582 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◇ 5562 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⊖ 5592 — perched piezometer showing elevation in feet amsl
- **TW4-32** ☼ 5564 — temporary perched monitoring well installed September, 2013 showing approximate elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring 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

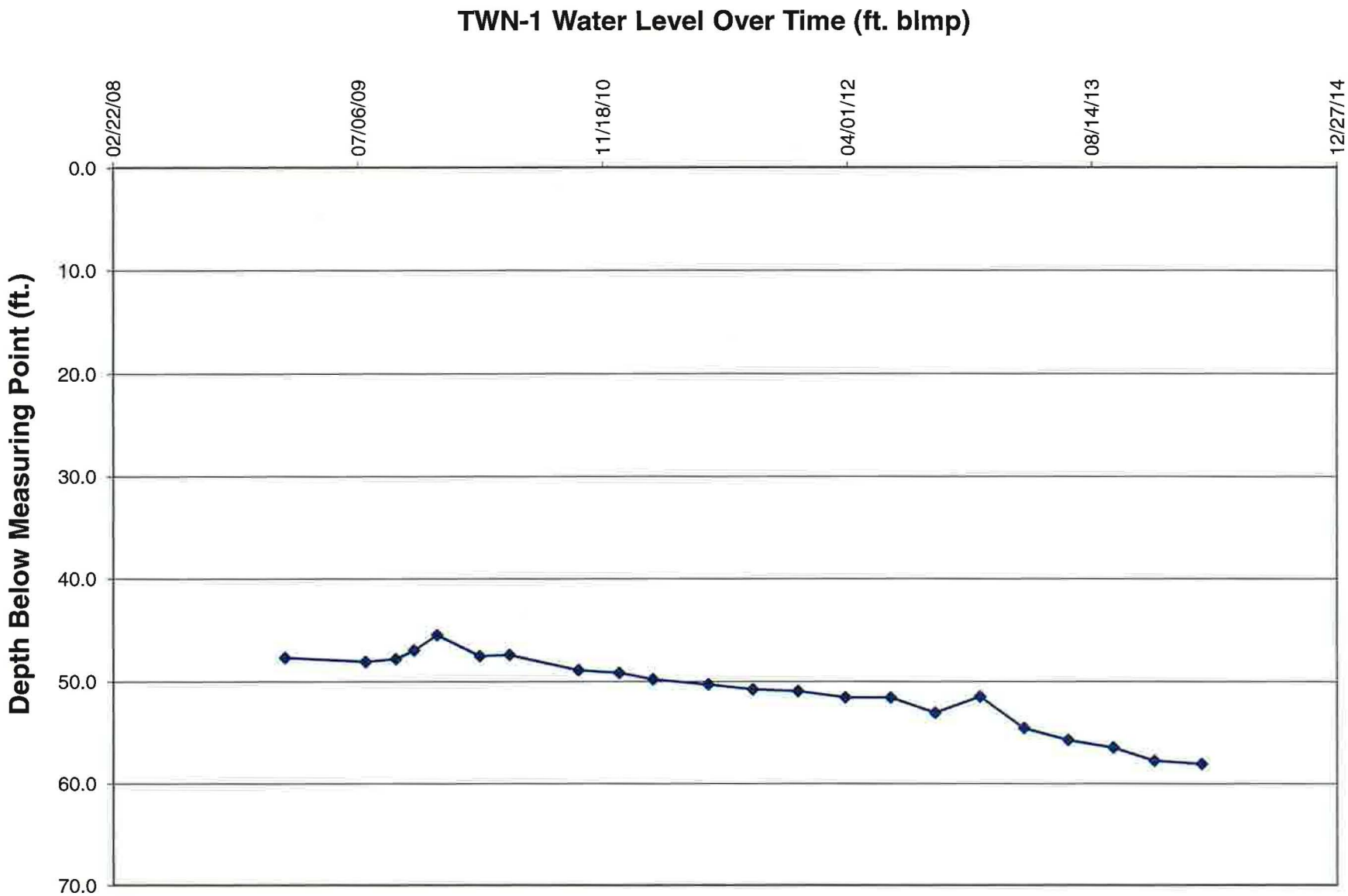
HYDRO GEO CHEM, INC.

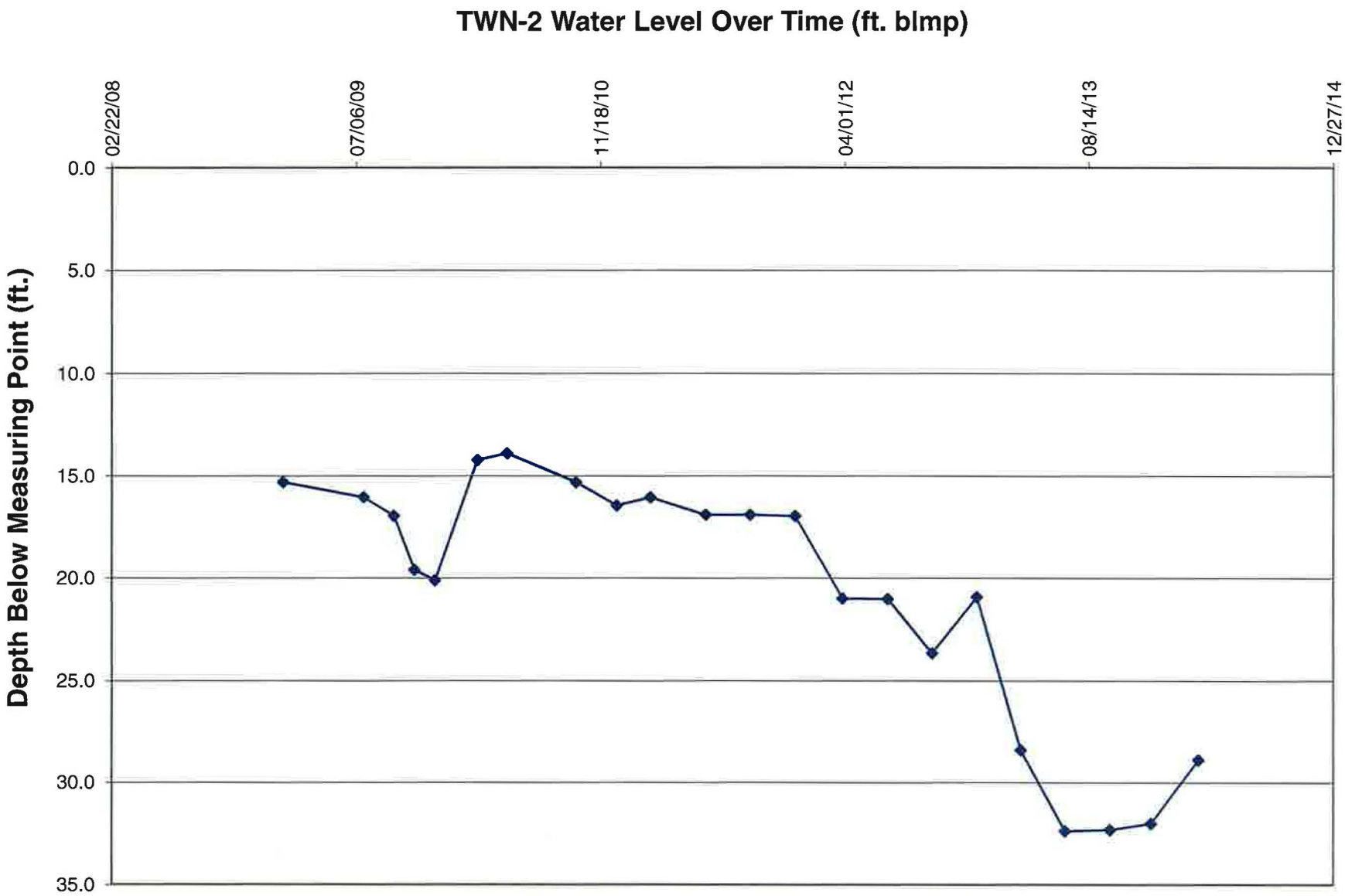
KRIGED 4th QUARTER, 2013 WATER LEVELS WHITE MESA SITE

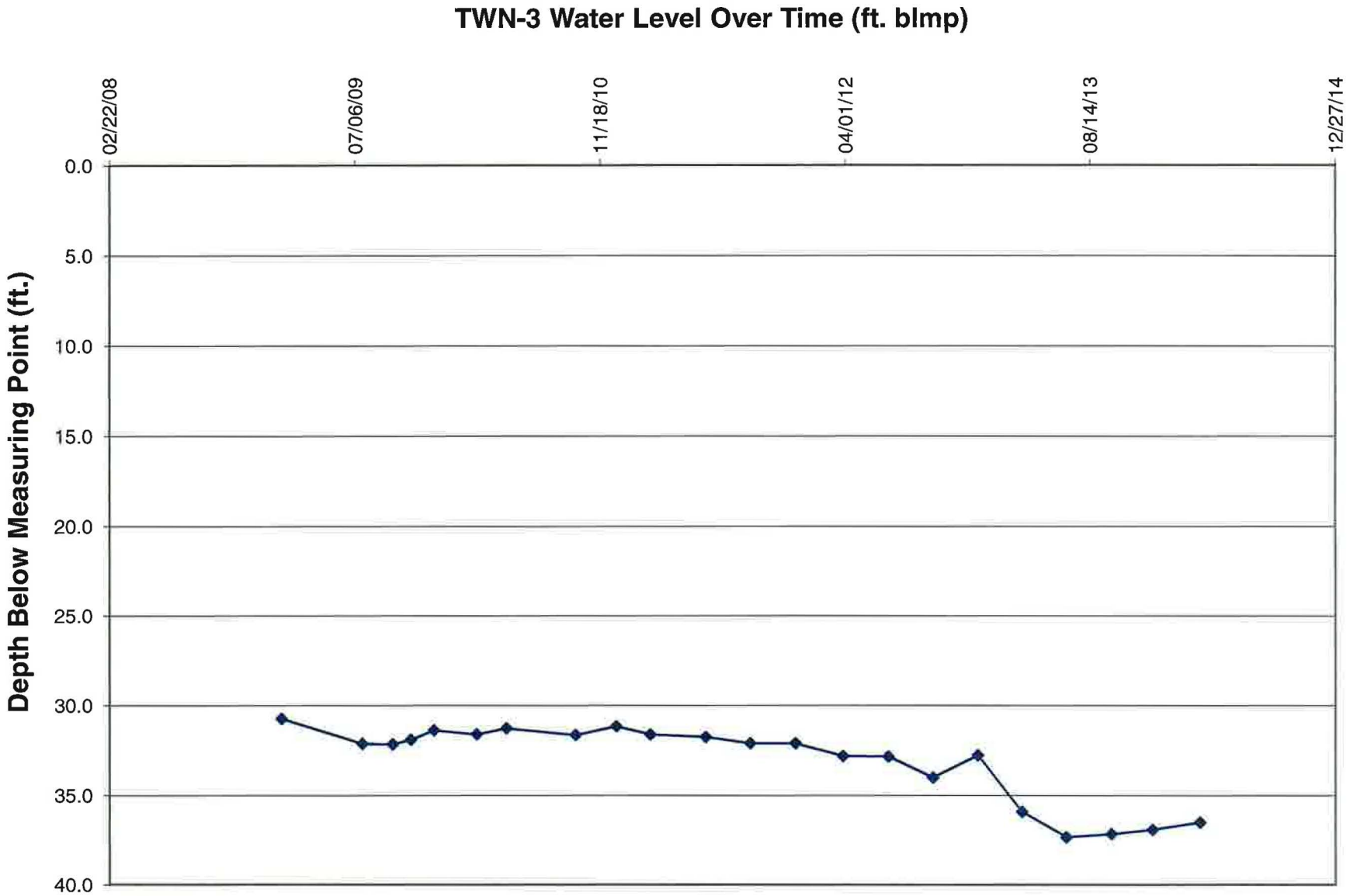
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb14/Uwl1213.srf	D-1

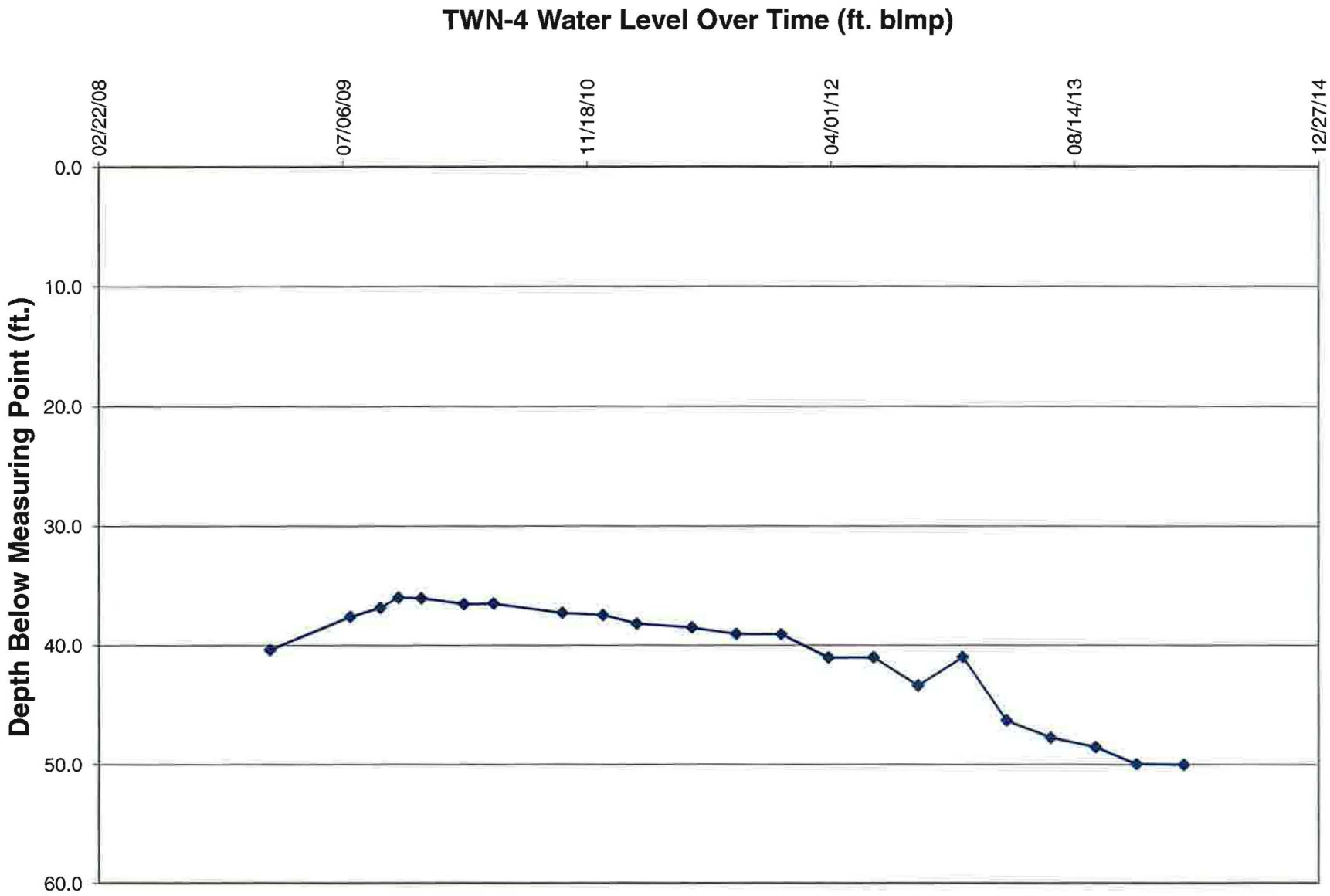
Tab E

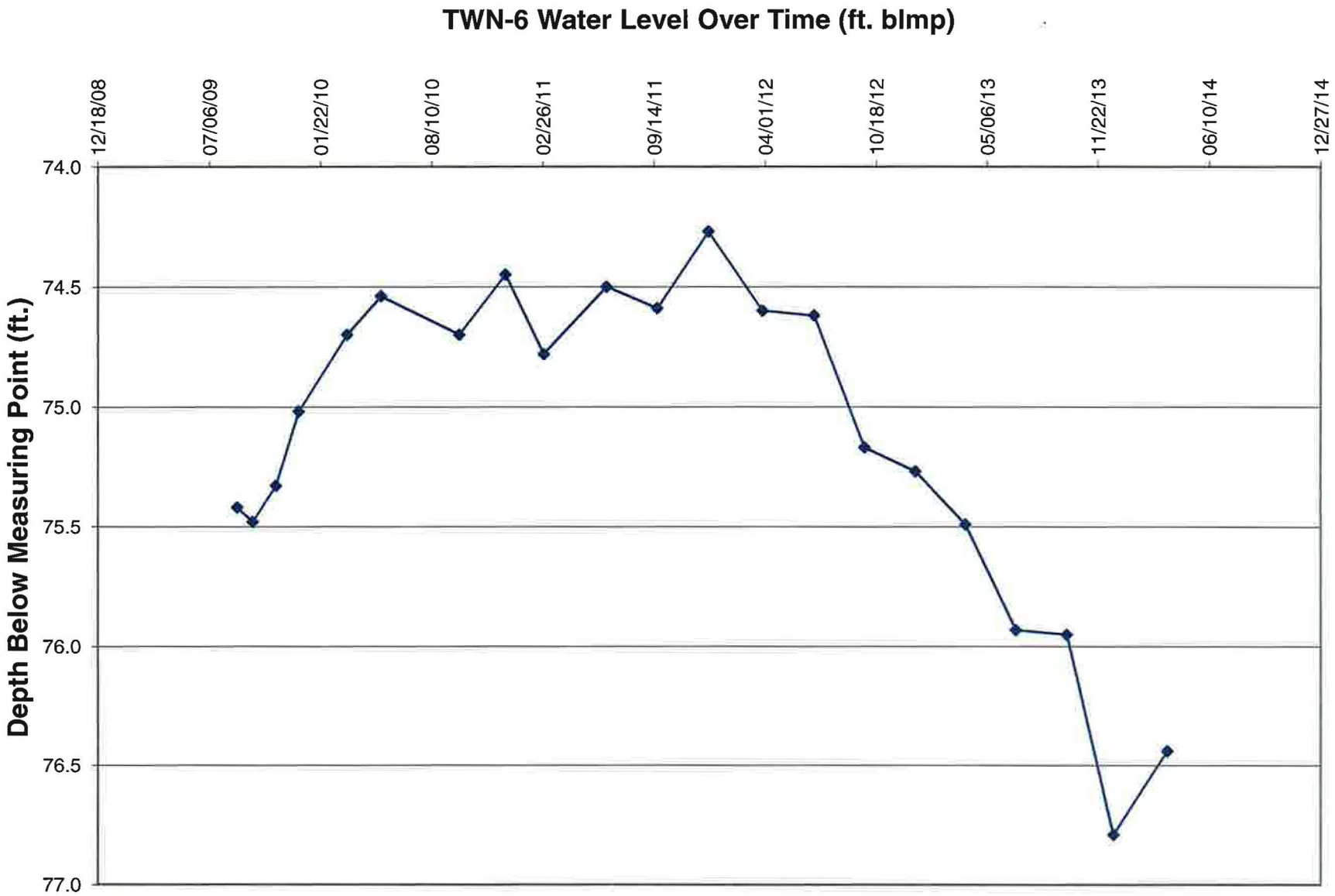
Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

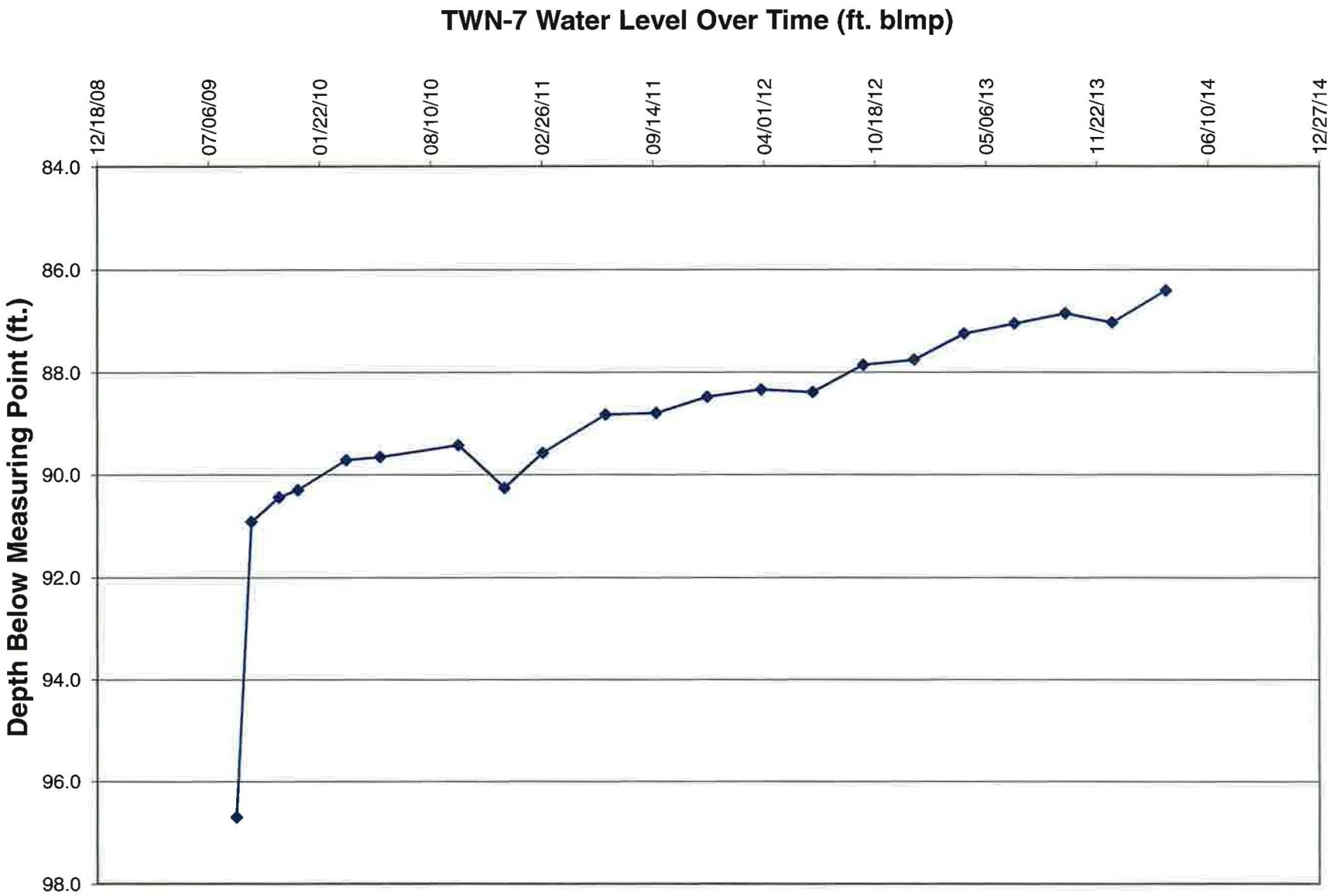

TWN-1 Water Level Over Time (ft. bImp)
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0

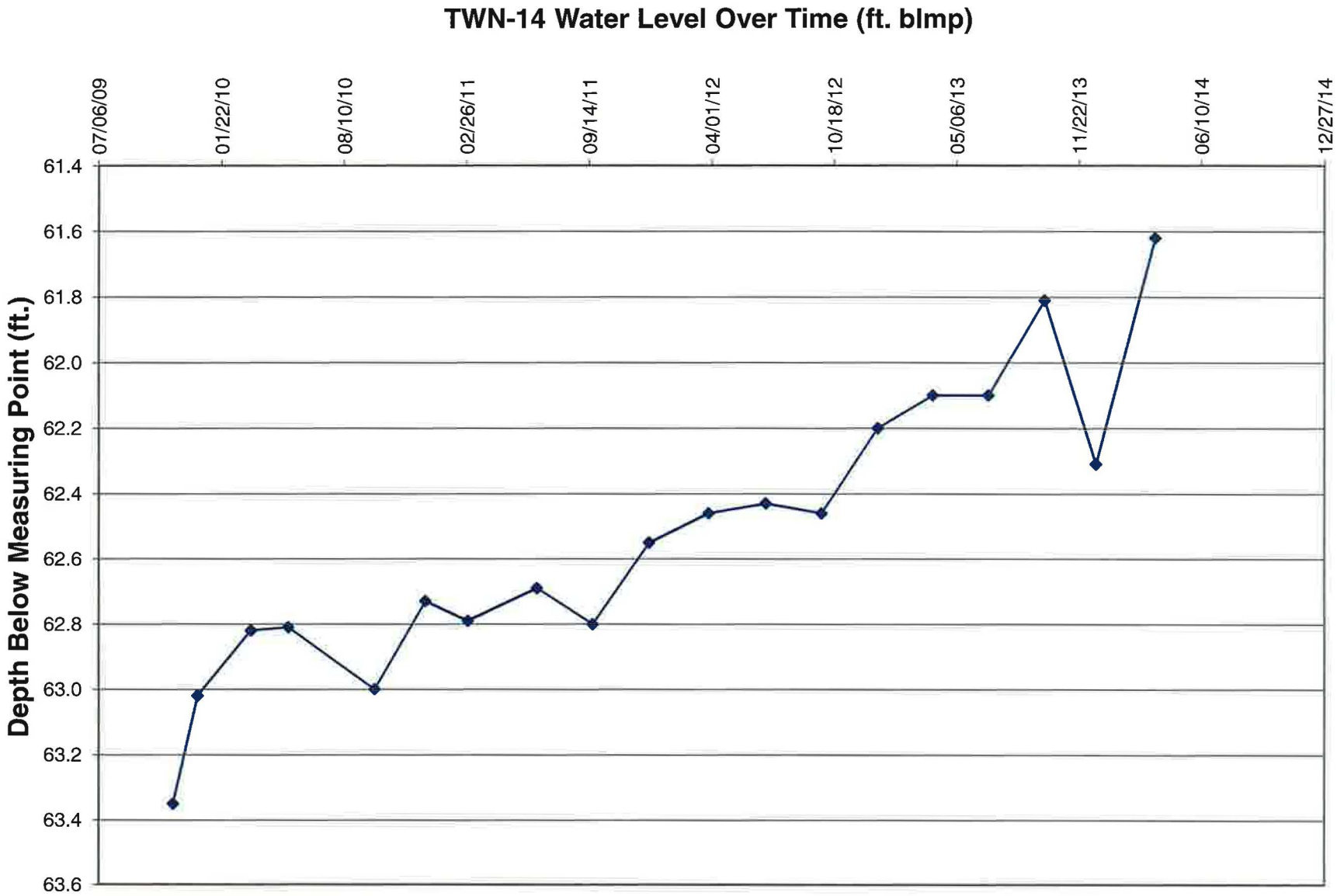

TWN-2 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0

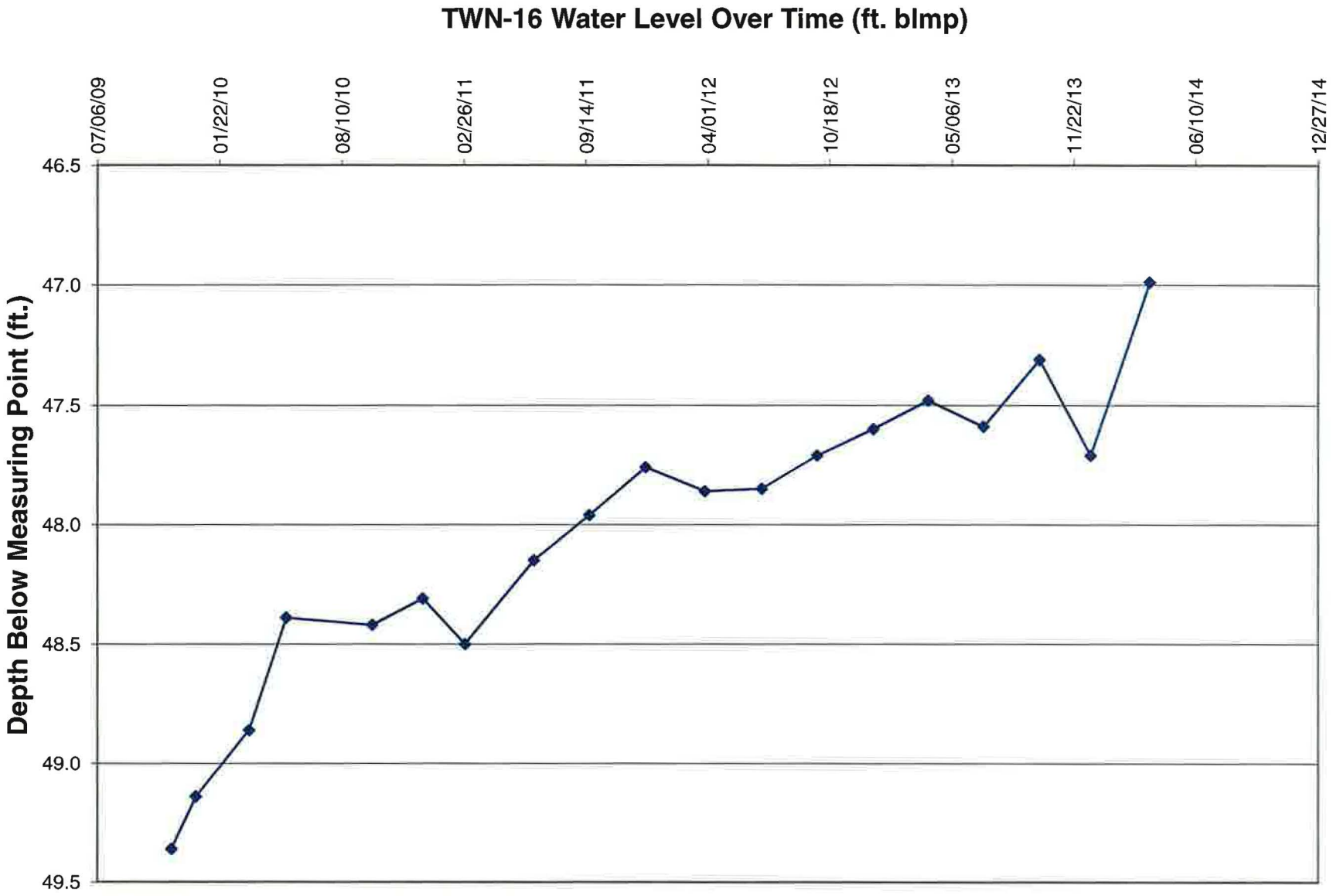

TWN-3 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0

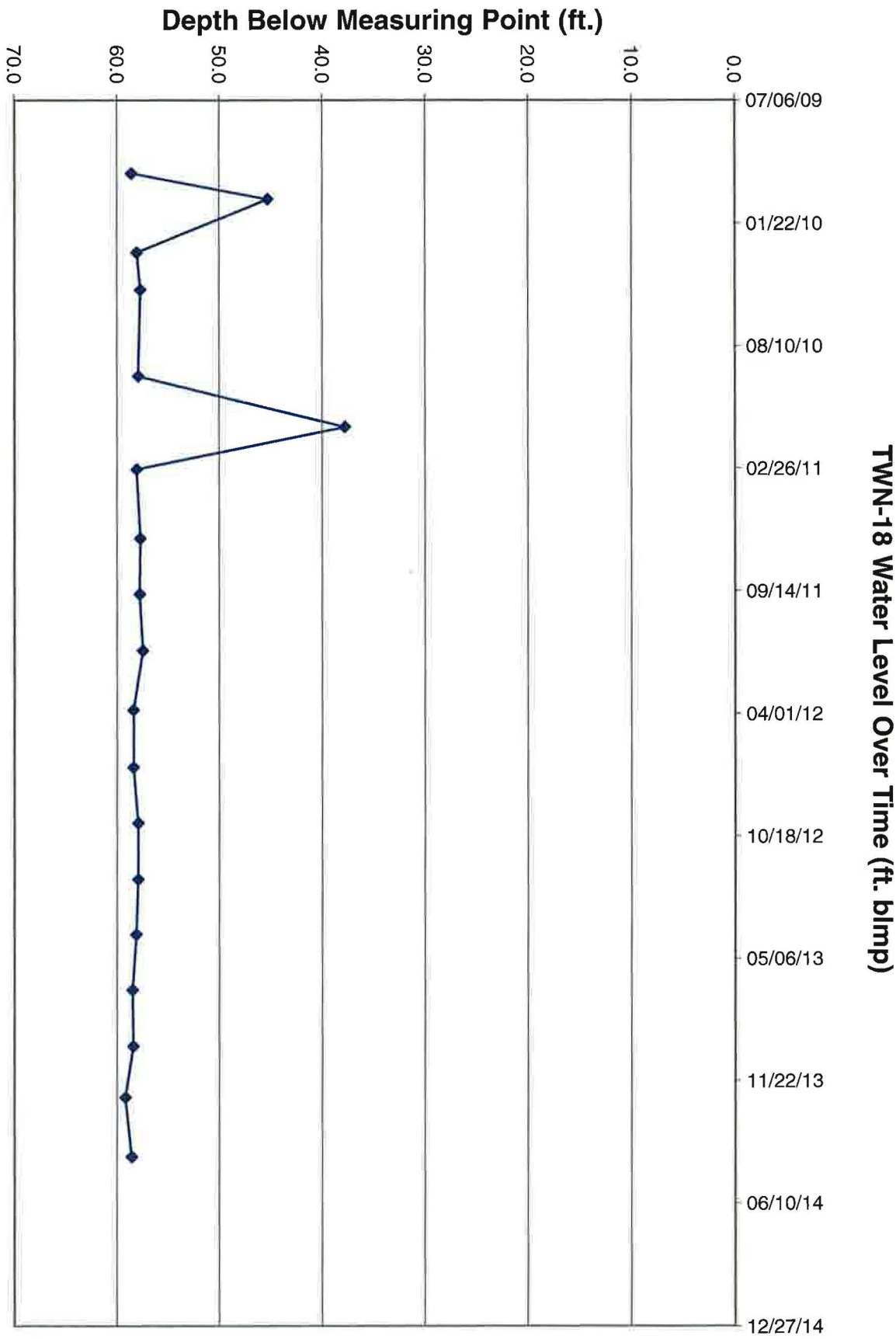

TWN-4 Water Level Over Time (ft. bImp)
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0

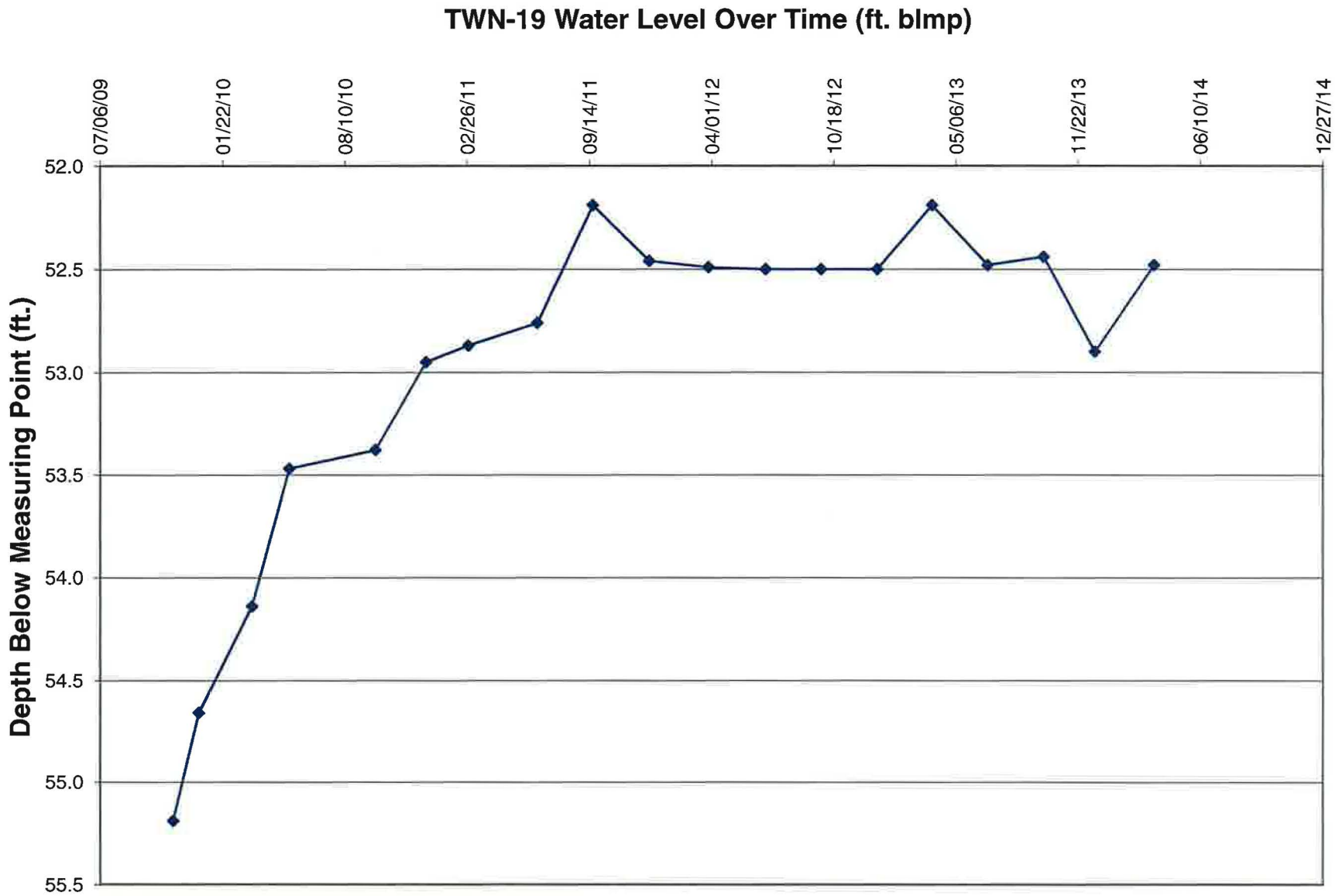

TWN-6 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
74.0
74.5
75.0
75.5
76.0
76.5
77.0

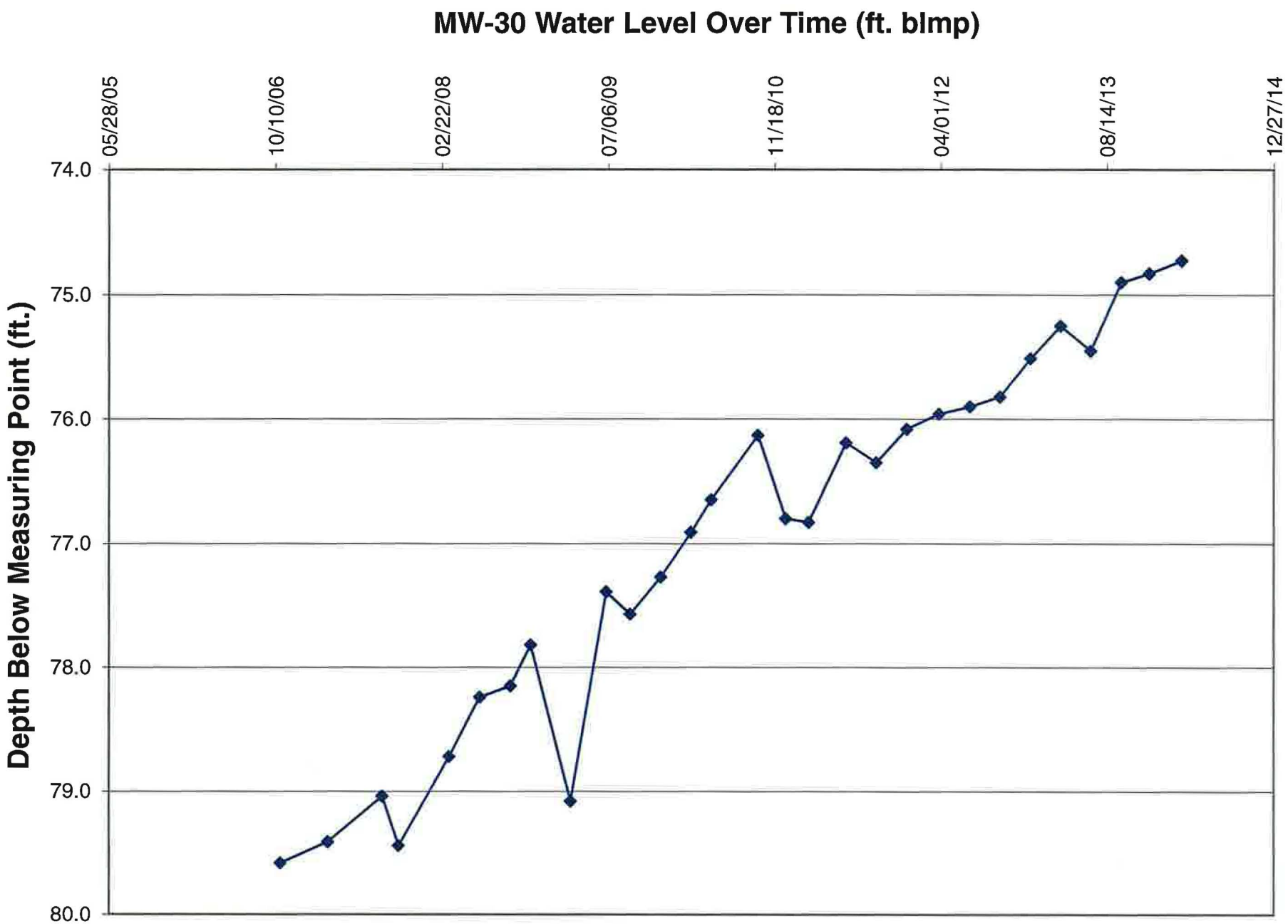

TWN-7 Water Level Over Time (ft. blmp)
12/18/08
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
84.0
86.0
88.0
90.0
92.0
94.0
96.0
98.0
Depth Below Measuring Point (ft.)

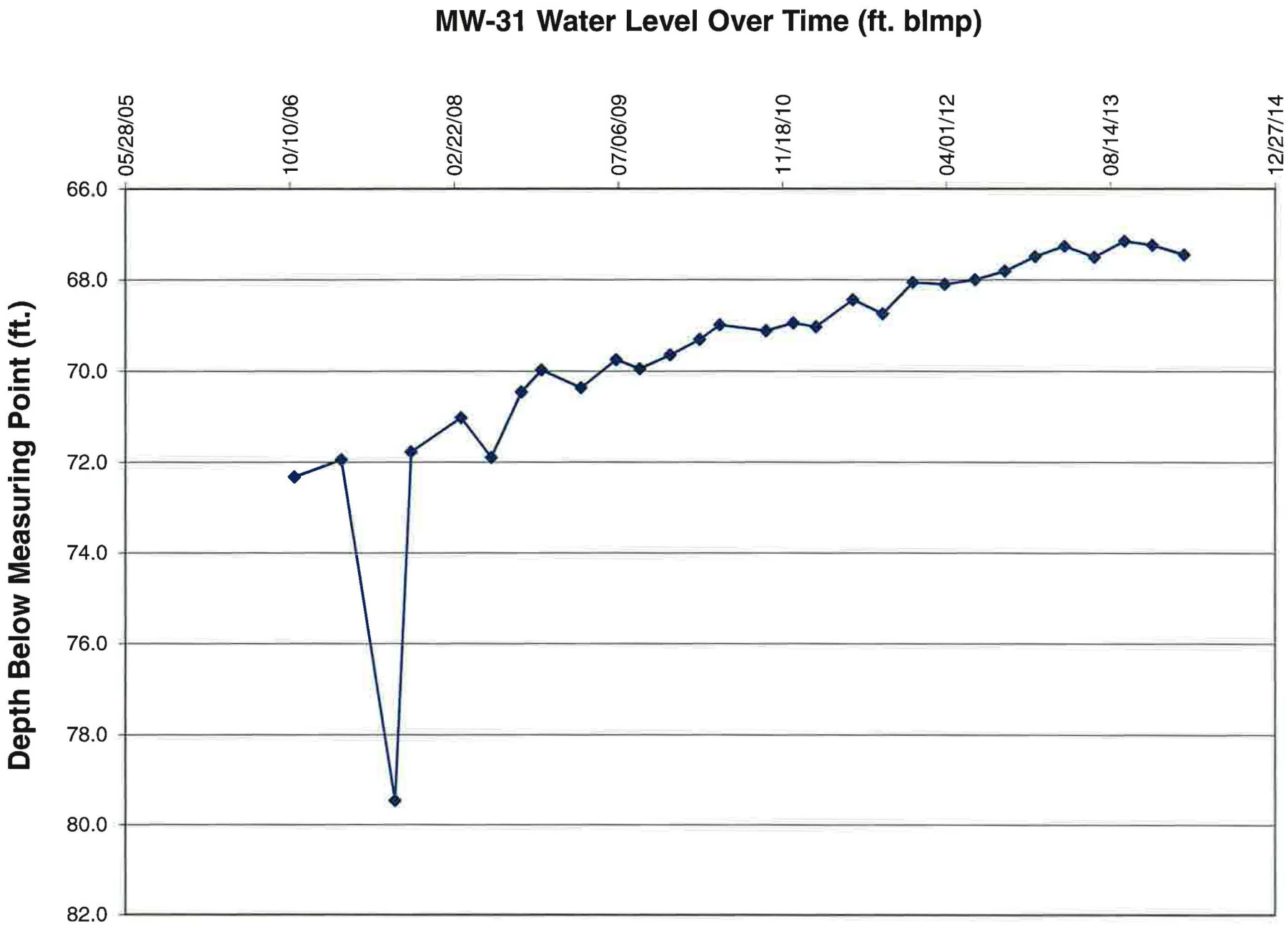

TWN-14 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
07/06/09
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
61.4
61.6
61.8
62.0
62.2
62.4
62.6
62.8
63.0
63.2
63.4
63.6


TWN-16 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
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
12/27/14
46.5
47.0
47.5
48.0
48.5
49.0
49.5


Depth Below Measuring Point (ft.)
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
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
12/27/14
TWN-18 Water Level Over Time (ft. blmp)


TWN-19 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
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
12/27/14
52.0
52.5
53.0
53.5
54.0
54.5
55.0
55.5


MW-30 Water Level Over Time (ft. bImp)
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
Depth Below Measuring Point (ft.)
74.0
75.0
76.0
77.0
78.0
79.0
80.0


MW-31 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
82.0

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	
5,592.38				06/27/13	55.71	54.58	
5,591.65				09/27/13	56.44	55.31	
5,590.34				12/20/13	57.75	56.62	
5,590.03				03/27/14	58.06	56.93	

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	
5,594.68				12/20/13	32.01	31.07	
5,597.79				03/27/14	28.9	27.96	

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	
5,597.60				12/20/13	36.90	36.04	
5,598.00				03/27/14	36.50	35.64	

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	
5,591.92				12/20/13	49.95	49.12	
5,591.85				03/27/14	50.02	49.19	

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	
5,588.15				12/20/13	76.79	74.88	
5,588.50				03/27/14	76.44	74.53	

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	
5,562.23				12/20/13	87.03	85.16	
5,562.85				03/27/14	86.41	84.54	

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	
5,587.22				12/20/13	62.31	60.58	
5,587.91				03/27/14	61.62	59.89	

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	
5,604.99				12/20/13	47.71	46.08	
5,605.71				03/27/14	46.99	45.36	

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	
5,586.26				12/20/13	59.19	57.69	
5,586.87				03/27/14	58.58	57.08	

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	
5,608.46				12/20/13	52.90	51.13	
5,608.88				03/27/14	52.48	50.71	

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	
5539.67				12/20/2013	74.83	73.67	
5539.77				3/27/2014	74.73	73.57	

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	
5549.16				12/20/2013	67.24	66.10	
5548.95				3/27/2014	67.45	66.31	

Tab G

Laboratory Analytical Reports

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-010
Client Sample ID: PIEZ-01_01132014
Collection Date: 1/13/2014 1330h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2014 108h	E300.0	10.0	**56.2**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2026h	E353.2	1.00	**6.79**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-011
Client Sample ID: PIEZ-02_01132014
Collection Date: 1/13/2014 1304h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2014 131h	E300.0	2.00	**11.4**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2027h	E353.2	0.100	**0.169**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-012
Client Sample ID: PIEZ-03_01132014
Collection Date: 1/13/2014 1315h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2014 155h	E300.0	5.00	**26.0**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2028h	E353.2	0.200	**1.70**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-003
Client Sample ID: TWN-01_01142014
Collection Date: 1/14/2014 1047h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2139h	E300.0	5.00	**29.2**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2011h	E353.2	0.100	**1.47**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-007
Client Sample ID: TWN-02_01132014
Collection Date: 1/13/2014 1430h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2312h	E300.0	10.0	**72.4**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2017h	E353.2	10.0	**42.6**	1

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

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-006
Client Sample ID: TWN-03_01152014
Collection Date: 1/15/2014 740h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2249h	E300.0	50.0	**160**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2016h	E353.2	10.0	**19.6**	[1]@

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
@ - High RPD due to suspected sample non-homogeneity or matrix interference.

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-004
Client Sample ID: TWN-04_01142014
Collection Date: 1/14/2014 1227h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2202h	E300.0	5.00	**28.4**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2013h	E353.2	0.100	**1.41**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-002
Client Sample ID: TWN-07_01152014
Collection Date: 1/15/2014 730h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2116h	E300.0	1.00	**5.75**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2010h	E353.2	0.100	**0.882**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-001
Client Sample ID: TWN-07R_01142014
Collection Date: 1/14/2014 957h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2006h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2009h	E353.2	0.100	< 0.100	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-005
Client Sample ID: TWN-18_01142014
Collection Date: 1/14/2014 1312h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/20/2014 2225h	E300.0	10.0	**68.4**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2014h	E353.2	1.00	**2.33**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Sample ID: 1401525-015
Client Sample ID: TW4-22_01272014
Collection Date: 1/27/2014 1403h
Received Date: 1/31/2014 919h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/4/2014 643h	E300.0	100	**598**	
Nitrate/Nitrite (as N)	mg/L		1/31/2014 1538h	E353.2	10.0	**54.6**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Sample ID: 1401525-008
Client Sample ID: TW4-24_01272014
Collection Date: 1/27/2014 1355h
Received Date: 1/31/2014 919h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/4/2014 238h	E300.0	500	**809**	
Nitrate/Nitrite (as N)	mg/L		1/31/2014 1529h	E353.2	10.0	**31.6**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Sample ID: 1401525-003
Client Sample ID: TW4-25_01272014
Collection Date: 1/27/2014 1338h
Received Date: 1/31/2014 919h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/6/2014 2018h	E300.0	10.0	**85.7**	
Nitrate/Nitrite (as N)	mg/L		1/31/2014 1515h	E353.2	1.00	**2.16**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Sample ID: 1402140-010
Client Sample ID: TW4-60_02062014
Collection Date: 2/6/2014 845h
Received Date: 2/10/2014 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/11/2014 220h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		2/14/2014 1806h	E353.2	0.100	< 0.100	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-009
Client Sample ID: TWN-60_01152014
Collection Date: 1/15/2014 700h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2014 045h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2024h	E353.2	0.100	< 0.100	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Sample ID: 1401249-008
Client Sample ID: TWN-65_01142014
Collection Date: 1/14/2014 1227h
Received Date: 1/16/2014 949h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		1/21/2014 022h	E300.0	5.00	**26.4**	
Nitrate/Nitrite (as N)	mg/L		1/22/2014 2018h	E353.2	0.100	**1.33**	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

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

RE: 1st Quarter Nitrate 2014

Dear Garrin Palmer: Lab Set ID: 1401249

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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 12 sample(s) on 1/16/2014 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,

Approved by: Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US
Date: 2014.01.27 15:36:25 -07'00'

Laboratory Director or designee

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Nitrate 2014
Lab Set ID: 1401249
Date Received: 1/16/2014 949h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1401249-001A	TWN-07R_01142014	1/14/2014 957h	Aqueous	Anions, E300.0
1401249-001B	TWN-07R_01142014	1/14/2014 957h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-002A	TWN-07_01152014	1/15/2014 730h	Aqueous	Anions, E300.0
1401249-002B	TWN-07_01152014	1/15/2014 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-003A	TWN-01_01142014	1/14/2014 1047h	Aqueous	Anions, E300.0
1401249-003B	TWN-01_01142014	1/14/2014 1047h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-004A	TWN-04_01142014	1/14/2014 1227h	Aqueous	Anions, E300.0
1401249-004B	TWN-04_01142014	1/14/2014 1227h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-005A	TWN-18_01142014	1/14/2014 1312h	Aqueous	Anions, E300.0
1401249-005B	TWN-18_01142014	1/14/2014 1312h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-006A	TWN-03_01152014	1/15/2014 740h	Aqueous	Anions, E300.0
1401249-006B	TWN-03_01152014	1/15/2014 740h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-007A	TWN-02_01132014	1/13/2014 1430h	Aqueous	Anions, E300.0
1401249-007B	TWN-02_01132014	1/13/2014 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-008A	TWN-65_01142014	1/14/2014 1227h	Aqueous	Anions, E300.0
1401249-008B	TWN-65_01142014	1/14/2014 1227h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-009A	TWN-60_01152014	1/15/2014 700h	Aqueous	Anions, E300.0
1401249-009B	TWN-60_01152014	1/15/2014 700h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-010A	PIEZ-01_01132014	1/13/2014 1330h	Aqueous	Anions, E300.0
1401249-010B	PIEZ-01_01132014	1/13/2014 1330h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-011A	PIEZ-02_01132014	1/13/2014 1304h	Aqueous	Anions, E300.0
1401249-011B	PIEZ-02_01132014	1/13/2014 1304h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401249-012A	PIEZ-03_01132014	1/13/2014 1315h	Aqueous	Anions, E300.0
1401249-012B	PIEZ-03_01132014	1/13/2014 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Nitrate 2014
Lab Set ID:	1401249

Sample Receipt Information:

Date of Receipt:	1/16/2014
Date(s) of Collection:	1/13, 1/14 & 1/15/2014
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:

Sample ID	Analyte	QC	Explanation
1401249-006B	Nitrate-Nitrite (as N)	MSD/RPD	Sample non-homogeneity or matrix interference
1401249-007B	Nitrate-Nitrite (as N)	MSD	Sample matrix interference

Corrective Action: None required.

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401249
Project: 1st Quarter Nitrate 2014

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-R63968 Date Analyzed: 01/20/2014 1527h Test Code: 300.0-W													
Chloride	4.75	mg/L	E300.0	0.0114	0.100	5.000	0	95.0	90 - 110				
Lab Sample ID: LCS-R64059 Date Analyzed: 01/22/2014 2007h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.970	mg/L	E353.2	0.00252	0.100	1.000	0	97.0	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401249
Project: 1st Quarter Nitrate 2014

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-R63968 Date Analyzed: 01/20/2014 1504h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R64059 Date Analyzed: 01/22/2014 2006h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401249
Project: 1st Quarter Nitrate 2014

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: 1401249-001AMS Date Analyzed: 01/20/2014 2029h Test Code: 300.0-W													
Chloride	5.23	mg/L	E300.0	0.0114	0.100	5.000	0	105	90 - 110				
Lab Sample ID: 1401249-006BMS Date Analyzed: 01/22/2014 2030h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	122	mg/L	E353.2	0.252	10.0	100.0	19.6	103	90 - 110				
Lab Sample ID: 1401249-007BMS Date Analyzed: 01/22/2014 2032h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	148	mg/L	E353.2	0.252	10.0	100.0	42.6	106	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401249
Project: 1st Quarter Nitrate 2014

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: 1401249-001AMSD Date Analyzed: 01/20/2014 2053h Test Code: 300.0-W													
Chloride	5.26	mg/L	E300.0	0.0114	0.100	5.000	0	105	90 - 110	5.23	0.515	20	
Lab Sample ID: 1401249-006BMSD Date Analyzed: 01/22/2014 2031h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	138	mg/L	E353.2	0.252	10.0	100.0	19.6	118	90 - 110	122	11.8	10	'@
Lab Sample ID: 1401249-007BMSD Date Analyzed: 01/22/2014 2034h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	160	mg/L	E353.2	0.252	10.0	100.0	42.6	118	90 - 110	148	7.97	10	'

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1401249**

Client: Energy Fuels Resources, Inc. Due Date: 1/27/2014

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

Project: **1st Quarter Nitrate 2014** **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	
1401249-001A	**TWN-07R_01142014**	1/14/2014 0957h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-002A	**TWN-07_01152014**	1/15/2014 0730h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-003A	**TWN-01_01142014**	1/14/2014 1047h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-004A	**TWN-04_01142014**	1/14/2014 1227h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-005A	**TWN-18_01142014**	1/14/2014 1312h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-006A	**TWN-03_01152014**	1/15/2014 0740h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-007A	**TWN-02_01132014**	1/13/2014 1430h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-008A	**TWN-65_01142014**	1/14/2014 1227h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

Printed: 1/17/2014 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1401249**

Client: Energy Fuels Resources, Inc. Due Date: 1/27/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1401249-009A	**TWN-60_01152014**	1/15/2014 0700h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-010A	**PIEZ-01_01132014**	1/13/2014 1330h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-011A	**PIEZ-02_01132014**	1/13/2014 1304h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401249-012A	**PIEZ-03_01132014**	1/13/2014 1315h	1/16/2014 0949h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - cl	1
1401249-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

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.

1401249
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: 1st Quarter Nitrate 2014
PROJECT #:
PO #:
SAMPLER NAME: Tanner Holliday

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-07R_01142014	1/14/2014	957	2	W	X	X	
2	TWN-07_01152014	1/15/2014	730	2	W	X	X	
3	TWN-01_01142014	1/14/2014	1047	2	W	X	X	
4	TWN-04_01142014	1/14/2014	1227	2	W	X	X	
5	TWN-18_01142014	1/14/2014	1312	2	W	X	X	
6	TWN-03_01152014	1/15/2014	740	2	W	X	X	
7	TWN-02_01132014	1/13/2014	1430	2	W	X	X	
8	TWN-65_01142014	1/14/2014	1227	2	W	X	X	
9	TWN-60_01152014	1/15/2014	700	2	W	X	X	
10	PIEZ-01_01132014	1/13/2014	1330	2	W	X	X	
11	PIEZ-02_01132014	1/13/2014	1304	2	W	X	X	
12	PIEZ-03_01132014	1/13/2014	1315	2	W	X	X	
13	TEMP BLANK	1/15/2014		1	W			

LABORATORY USE ONLY

SAMPLES WERE: FedX
1 SHIPPED OR HAND DELIVERED
2 AMBIENT OR CHILLED
3 TEMPERATURE 25 °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: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME: Tanner Holliday	TIME: 1000	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE: 1/16/14	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME: 949	PRINT NAME: Emma Heinel	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

SPECIAL INSTRUCTIONS:

Lab Set ID: 140249

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

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

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

RE: 1st Quarter Chloroform 2014

Dear Garrin Palmer: Lab Set ID: 1402140

American West Analytical Laboratories received 11 sample(s) on 2/10/2014 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,

Approved by: 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: 2014.02.17 13:36:24 -07'00'

Laboratory Director or designee

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

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

web: www.awal-labs.com

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Set ID: 1402140
Date Received: 2/10/2014 1015h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1402140-010B	TW4-60_02062014	2/6/2014	845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1402140-010C	TW4-60_02062014	2/6/2014	845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1402140-011A	Trip Blank	2/4/2014		Aqueous	VOA by GC/MS Method 8260C/5030C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2014
Lab Set ID:	1402140

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Sample Receipt Information:

Date of Receipt:	2/10/2014
Date(s) of Collection:	2/4, 2/5 & 2/6/2014
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.

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2014
Lab Set ID:	1402140

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Sample Receipt Information:

Date of Receipt:	2/10/2014
Date of Collection:	2/4, 2/5 & 2/6/2014
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times 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, and Surrogates:

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1402140
Project: 1st Quarter Chloroform 2014

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-R64819 Date Analyzed: 02/10/2014 1701h													
Test Code: 300.0-W													
Chloride	4.85	mg/L	E300.0	0.0114	0.100	5.000	0	96.9	90 - 110				
Lab Sample ID: LCS-R64879 Date Analyzed: 02/11/2014 1421h													
Test Code: 300.0-W													
Chloride	4.88	mg/L	E300.0	0.0114	0.100	5.000	0	97.6	90 - 110				
Lab Sample ID: LCS-R65008 Date Analyzed: 02/14/2014 1745h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.986	mg/L	E353.2	0.00252	0.100	1.000	0	98.6	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1402140
Project: 1st Quarter Chloroform 2014

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-R64819 Date Analyzed: 02/10/2014 1638h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R64879 Date Analyzed: 02/11/2014 1358h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R65008 Date Analyzed: 02/14/2014 1744h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1402140
Project: 1st Quarter Chloroform 2014

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: 1402140-008AMS Date Analyzed: 02/11/2014 024h													
Test Code: 300.0-W													
Chloride	5.16	mg/L	E300.0	0.0114	0.100	5.000	0	103	90 - 110				
Lab Sample ID: 1402075-001GMS Date Analyzed: 02/11/2014 1554h													
Test Code: 300.0-W													
Chloride	5,140	mg/L	E300.0	11.4	100	5,000	409	94.7	90 - 110				
Lab Sample ID: 1402140-004BMS Date Analyzed: 02/14/2014 1822h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.1	mg/L	E353.2	0.0252	1.00	10.00	4.24	108	90 - 110				
Lab Sample ID: 1402249-002DMS Date Analyzed: 02/14/2014 1824h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00252	0.100	1.000	0.0286	99.0	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1402140
Project: 1st Quarter Chloroform 2014

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: 1402140-008AMSD Date Analyzed: 02/11/2014 047h Test Code: 300.0-W													
Chloride	5.22	mg/L	E300.0	0.0114	0.100	5.000	0	104	90 - 110	5.16	1.12	20	
Lab Sample ID: 1402075-001GMSD Date Analyzed: 02/11/2014 1618h Test Code: 300.0-W													
Chloride	5,180	mg/L	E300.0	11.4	100	5,000	409	95.5	90 - 110	5140	0.820	20	
Lab Sample ID: 1402140-004BMSD Date Analyzed: 02/14/2014 1823h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.6	mg/L	E353.2	0.0252	1.00	10.00	4.24	104	90 - 110	15.1	3.17	10	
Lab Sample ID: 1402249-002DMSD Date Analyzed: 02/14/2014 1826h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00252	0.100	1.000	0.0286	103	90 - 110	1.02	3.38	10	

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1402140**

Client: Energy Fuels Resources, Inc. Due Date: 2/19/2014

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

Project: **1st Quarter Chloroform 2014** **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.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1402140-001A	**TW4-21_02052014**	2/5/2014 0825h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1402140-001B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1402140-001C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1402140-002A	**TW4-29_02052014**	2/5/2014 0842h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1402140-002B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1402140-002C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1402140-003A	**TW4-11_02052014**	2/5/2014 0859h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1402140-003B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1402140-003C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1402140-004A	**TW4-07_02052014**	2/5/2014 0910h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1402140-004B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1402140-004C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1402140-005A	**TW4-01_02052014**	2/5/2014 0923h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1402140-005B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1402140-005C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1402140-006A	**TW4-10_02052014**	2/5/2014 0934h	2/10/2014 1015h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				

Printed: 2/10/2014 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK DB HOK____ HOK____ COC Emailed 2/10/14

WORK ORDER Summary

Work Order: **1402140**

Client: Energy Fuels Resources, Inc.

Due Date: 2/19/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1402140-006B	**TW4-10_02052014**	2/5/2014 0934h	2/10/2014 1015h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous	☑	df - no2/no3	1
1402140-006C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1402140-007A	**TW4-02_02062014**	2/6/2014 0818h	2/10/2014 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1402140-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1402140-007C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1402140-008A	**TW4-29R_02042014**	2/4/2014 1111h	2/10/2014 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1402140-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1402140-008C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1402140-009A	**TW4-08_02062014 Re Sample**	2/6/2014 0825h	2/10/2014 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1402140-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1402140-009C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1402140-010A	**TW4-60_02062014**	2/6/2014 0845h	2/10/2014 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1402140-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1402140-010C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1402140-011A	**Trip Blank**	2/4/2014	2/10/2014 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

1402140
AWAL Lab Sample Set #
Page 1 of 1

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.

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: **1st Quarter Chloroform 2014**
Project #:
PO #:
Sampler Name: **Garrin Palmer, Tanner Holliday**

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	TW4-21_02052014	2/5/2014	825	5	w	x	x	x	
2	TW4-29_02052014	2/5/2014	842	5	w	x	x	x	
3	TW4-11_02052014	2/5/2014	859	5	w	x	x	x	
4	TW4-07_02052014	2/5/2014	910	5	w	x	x	x	
5	TW4-01_02052014	2/5/2014	923	5	w	x	x	x	
6	TW4-10_02052014	2/5/2014	934	5	w	x	x	x	
7	TW4-02_02062014	2/6/2014	818	5	w	x	x	x	
8	TW4-29R_02042014	2/4/2014	1111	5	ww	x	x	x	
9	TW4-08_02062014 Re Sample	2/6/2014	825	5	w	x	x	x	
10	TW4-60_02062014	2/6/2014	845	5	w	x	x	x	
	Trip Blank	2/4/2014		3				x	
11	Temp Blank								
12									

Laboratory use Only

Samples Were: Fed-X
1 Shipped or Hand Delivered
2 Ambient or Chilled
3 Temperature 2.9 °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: Signature	Date:	Received by: Signature	Date:
Print Name: Garrin Palmer	Time: 1000	Print Name:	Time:
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:
Relinquished by: Signature	Date:	Received by: Signature	Date: 2/6/14
Print Name:	Time:	Print Name: Elena Hyde	Time: 1005

Special Instructions:

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

Constituent	Analytical Method	Reporting Limit	Holding Time	Sample Preservation	Sample Container
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 - Chlorinated 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
SVOC - Pentachlorophenol Suite 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: 1402140

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10								
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								
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: 1st Quarter Chloroform 2014

Dear Garrin Palmer: Lab Set ID: 1401525

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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 18 sample(s) on 1/31/2014 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,

Approved by: 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: 2014.02.10 11:55:31 -07'00'

Laboratory Director or designee

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Set ID: 1401525
Date Received: 1/31/2014 919h

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1401525-001A	TW4-09_01292014	1/29/2014 740h	Aqueous	Anions, E300.0
1401525-001B	TW4-09_01292014	1/29/2014 740h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-001C	TW4-09_01292014	1/29/2014 740h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-002A	MW-32_01292014	1/29/2014 1305h	Aqueous	Anions, E300.0
1401525-002B	MW-32_01292014	1/29/2014 1305h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-002C	MW-32_01292014	1/29/2014 1305h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-003A	TW4-25_01272014	1/27/2014 1338h	Aqueous	Anions, E300.0
1401525-003B	TW4-25_01272014	1/27/2014 1338h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-003C	TW4-25_01272014	1/27/2014 1338h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-004A	TW4-26_01292014	1/29/2014 750h	Aqueous	Anions, E300.0
1401525-004B	TW4-26_01292014	1/29/2014 750h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-004C	TW4-26_01292014	1/29/2014 750h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-005A	TW4-06_01292014	1/29/2014 758h	Aqueous	Anions, E300.0
1401525-005B	TW4-06_01292014	1/29/2014 758h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-005C	TW4-06_01292014	1/29/2014 758h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-006A	TW4-16_01292014	1/29/2014 805h	Aqueous	Anions, E300.0
1401525-006B	TW4-16_01292014	1/29/2014 805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-006C	TW4-16_01292014	1/29/2014 805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-007A	TW4-05_01302014	1/30/2014 718h	Aqueous	Anions, E300.0
1401525-007B	TW4-05_01302014	1/30/2014 718h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-007C	TW4-05_01302014	1/30/2014 718h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-008A	TW4-24_01272014	1/27/2014 1355h	Aqueous	Anions, E300.0
1401525-008B	TW4-24_01272014	1/27/2014 1355h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-008C	TW4-24_01272014	1/27/2014 1355h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-009A	TW4-18_01302014	1/30/2014 733h	Aqueous	Anions, E300.0
1401525-009B	TW4-18_01302014	1/30/2014 733h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-009C	TW4-18_01302014	1/30/2014 733h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-010A	TW4-33_01302014	1/30/2014 750h	Aqueous	Anions, E300.0
1401525-010B	TW4-33_01302014	1/30/2014 750h	Aqueous	Nitrite/Nitrate (as N), E353.2

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2014
Lab Set ID: 1401525
Date Received: 1/31/2014 919h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1401525-010C	TW4-33_01302014	1/30/2014	750h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-011A	TW4-19_01272014	1/27/2014	1510h	Aqueous	Anions, E300.0
1401525-011B	TW4-19_01272014	1/27/2014	1510h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-011C	TW4-19_01272014	1/27/2014	1510h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-012A	TW4-04_01272014	1/27/2014	1433h	Aqueous	Anions, E300.0
1401525-012B	TW4-04_01272014	1/27/2014	1433h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-012C	TW4-04_01272014	1/27/2014	1433h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-013A	MW-04_01272014	1/27/2014	1425h	Aqueous	Anions, E300.0
1401525-013B	MW-04_01272014	1/27/2014	1425h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-013C	MW-04_01272014	1/27/2014	1425h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-014A	MW-26_01272014	1/27/2014	1420h	Aqueous	Anions, E300.0
1401525-014B	MW-26_01272014	1/27/2014	1420h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-014C	MW-26_01272014	1/27/2014	1420h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-015A	TW4-22_01272014	1/27/2014	1403h	Aqueous	Anions, E300.0
1401525-015B	TW4-22_01272014	1/27/2014	1403h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-015C	TW4-22_01272014	1/27/2014	1403h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-016A	TW4-20_01272014	1/27/2014	1412h	Aqueous	Anions, E300.0
1401525-016B	TW4-20_01272014	1/27/2014	1412h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-016C	TW4-20_01272014	1/27/2014	1412h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-017A	TW4-70_01292014	1/29/2014	1305h	Aqueous	Anions, E300.0
1401525-017B	TW4-70_01292014	1/29/2014	1305h	Aqueous	Nitrite/Nitrate (as N), E353.2
1401525-017C	TW4-70_01292014	1/29/2014	1305h	Aqueous	VOA by GC/MS Method 8260C/5030C
1401525-018A	Trip Blank	1/27/2014		Aqueous	VOA by GC/MS Method 8260C/5030C

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2014
Lab Set ID:	1401525

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Sample Receipt Information:

Date of Receipt:	1/31/2014
Date(s) of Collection:	1/27, 1/29 & 1/30/2014
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.

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2014
Lab Set ID:	1401525

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
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

Sample Receipt Information:

Date of Receipt:	1/31/2014
Date of Collection:	1/27, 1/29 & 1/30/2014
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times 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, and Surrogates:

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401525
Project: 1st Quarter Chloroform 2014

Contact: Garrin Palmer
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1401525-010BDUP Date Analyzed: 02/07/2014 1617h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	2.66	mg/L	E353.2	0.0252	0.100					2.56	3.75	20	

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401525
Project: 1st Quarter Chloroform 2014

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-R64539** Date Analyzed: 02/03/2014 1636h 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-R64707** Date Analyzed: 02/06/2014 1954h Test Code: 300.0-W													
Chloride	4.88	mg/L	E300.0	0.0114	0.100	5.000	0	97.5	90 - 110				
Lab Sample ID: **LCS-R64463** Date Analyzed: 01/31/2014 1511h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.955	mg/L	E353.2	0.00252	0.100	1.000	0	95.5	90 - 110				
Lab Sample ID: **LCS NO3-R64726** Date Analyzed: 02/07/2014 1554h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.972	mg/L	E353.2	0.00252	0.0100	1.000	0	97.2	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401525
Project: 1st Quarter Chloroform 2014

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-R64539 Date Analyzed: 02/03/2014 1609h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R64707 Date Analyzed: 02/06/2014 1931h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Lab Sample ID: MB-R64463 Date Analyzed: 01/31/2014 1509h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R64726 Date Analyzed: 02/07/2014 1551h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00252	0.0100								

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401525
Project: 1st Quarter Chloroform 2014

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: 1401525-001AMS Date Analyzed: 02/03/2014 2300h													
Test Code: 300.0-W													
Chloride	259	mg/L	E300.0	0.570	5.00	250.0	22	94.6	90 - 110				
Lab Sample ID: 1401525-003AMS Date Analyzed: 02/06/2014 2041h													
Test Code: 300.0-W													
Chloride	578	mg/L	E300.0	1.14	10.0	500.0	85.7	98.6	90 - 110				
Lab Sample ID: 1401525-003BMS Date Analyzed: 01/31/2014 1520h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0252	1.00	10.00	2.16	97.6	90 - 110				
Lab Sample ID: 1401525-008BMS Date Analyzed: 01/31/2014 1552h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	124	mg/L	E353.2	0.252	10.0	100.0	31.6	92.7	90 - 110				

463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1401525
Project: 1st Quarter Chloroform 2014

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: 1401525-001AMSD Date Analyzed: 02/03/2014 2327h Test Code: 300.0-W													
Chloride	264	mg/L	E300.0	0.570	5.00	250.0	22	96.7	90 - 110	259	2.06	20	
Lab Sample ID: 1401525-003AMSD Date Analyzed: 02/06/2014 2104h Test Code: 300.0-W													
Chloride	572	mg/L	E300.0	1.14	10.0	500.0	85.7	97.3	90 - 110	578	1.14	20	
Lab Sample ID: 1401525-003BMSD Date Analyzed: 01/31/2014 1521h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.5	mg/L	E353.2	0.0252	1.00	10.00	2.16	103	90 - 110	11.9	4.51	10	
Lab Sample ID: 1401525-008BMSD Date Analyzed: 01/31/2014 1554h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	131	mg/L	E353.2	0.252	10.0	100.0	31.6	99.8	90 - 110	124	5.55	10	

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1401525**

Client: Energy Fuels Resources, Inc. Due Date: 2/11/2014

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

Project: **1st Quarter Chloroform 2014** **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.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1401525-001A	**TW4-09_01292014**	1/29/2014 0740h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-001B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-001C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-002A	**MW-32_01292014**	1/29/2014 1305h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-002B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-002C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-003A	**TW4-25_01272014**	1/27/2014 1338h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-003B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-003C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-004A	**TW4-26_01292014**	1/29/2014 0750h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-004B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-004C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-005A	**TW4-06_01292014**	1/29/2014 0758h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-005B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-005C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-006A	**TW4-16_01292014**	1/29/2014 0805h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				

Printed: 2/3/2014 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed 1/31/14

WORK ORDER Summary

Work Order: **1401525**

Client: Energy Fuels Resources, Inc. Due Date: 2/11/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1401525-006B	**TW4-16_01292014**	1/29/2014 0805h	1/31/2014 0919h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous	☑	df - no2/no3	1
1401525-006C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-007A	**TW4-05_01302014**	1/30/2014 0718h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401525-007C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-008A	**TW4-24_01272014**	1/27/2014 1355h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401525-008C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-009A	**TW4-18_01302014**	1/30/2014 0733h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401525-009C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-010A	**TW4-33_01302014**	1/30/2014 0750h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401525-010C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-011A	**TW4-19_01272014**	1/27/2014 1510h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1401525-011C				**8260-W** *Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1401525-012A	**TW4-04_01272014**	1/27/2014 1433h	1/31/2014 0919h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1401525-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

Printed: 1/31/2014 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1401525**

Client: Energy Fuels Resources, Inc. Due Date: 2/11/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1401525-012C	**TW4-04_01272014**	1/27/2014 1433h	1/31/2014 0919h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-013A	**MW-04_01272014**	1/27/2014 1425h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-013B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-013C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-014A	**MW-26_01272014**	1/27/2014 1420h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-014B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-014C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-015A	**TW4-22_01272014**	1/27/2014 1403h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-015B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-015C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-016A	**TW4-20_01272014**	1/27/2014 1412h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-016B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-016C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-017A	**TW4-70_01292014**	1/29/2014 1305h	1/31/2014 0919h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1401525-017B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1401525-017C				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1401525-018A	**Trip Blank**	1/27/2014	1/31/2014 0919h	**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.

1401525
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: 1st Quarter Chloroform 2014
Project #:
PO #:
Sampler Name: Garrin Palmer, Tanner Holliday

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

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

Laboratory Use Only
Samples Were: Fed-X
1 Shipped or Hand Delivered
2 Ambient or Chilled 2.7
3 Temperature 4.1°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

	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	TW4-09_01292014	1/29/2014	740	5	w	x	x	x	
2	MW-32_01292014	1/29/2014	1305	5	w	x	x	x	
3	TW4-25_01272014	1/27/2014	1338	5	w	x	x	x	
4	TW4-26_01292014	1/29/2014	750	5	w	x	x	x	
5	TW4-06_01292014	1/29/2014	758	5	w	x	x	x	
6	TW4-16_01292014	1/29/2014	805	5	w	x	x	x	
7	TW4-05_01302014	1/30/2014	718	5	w	x	x	x	
8	TW4-24_01272014	1/27/2014	1355	5	w	x	x	x	
9	TW4-18_01302014	1/30/2014	733	5	w	x	x	x	
10	TW4-33_01302014	1/30/2014	750	5	w	x	x	x	
	TW4-19_01272014	1/27/2014	1510	5	w	x	x	x	
11	TW4-04_01272014	1/27/2014	1433	5	w	x	x	x	
12	MW-04_01272014	1/27/2014	1425	5	w	x	x	x	

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:
Garrin Palmer	1/30/14		
Print Name: Garrin Palmer	Time: 1000	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 1/31/14
		Elma Hayes	
Print Name:	Time:	Print Name: Elma Hayes	Time: 9:19
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

1401525
AWAL Lab Sample Set #
Page 2 of 2

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.

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: **1st Quarter Chloroform 2014**
Project #:
PO #:
Sampler Name: **Garrin Palmer, Tanner Holliday**

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	**MW-26_01272014**	**1/27/2014**	**1420**	5	w	x	x	x	
2	**TW4-22_01272014**	**1/27/2014**	**1403**	5	w	x	x	x	
3	**TW4-20_01272014**	**1/27/2014**	**1412**	5	w	x	x	x	
4	**TW4-70_01292014**	**1/29/2014**	**1305**	5	w	x	x	x	
5	**Trip Blank**	**1/27/2014**		3	w	x	x	x	
6	**Temp Blank**			5	w	x	x	x	
7				5	w	x	x	x	
8				5	w	x	x	x	
9				5	w	x	x	x	
10				5	w	x	x	x	
				5	w	x	x	x	
11				5	w	x	x	x	
12				5	w	x	x	x	

Laboratory Use Only

Samples Were: Fed X
1. Shipped or Hand Delivered
2. Ambient or Chilled
3. Temperature 4 gel 2.7
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

Custody Seals Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name: Garrin Palmer	1/30/14	1000	Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name: Elma Hayes	1/31/14	9:19
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		

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: 1401525

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	
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	
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		--			2168		NC	9.18		NC	13.98		NC	271		NC	3.2		NC
Piezometer 2		--			778		NC	7.05		NC	15.41		NC	462		NC	2.9		NC
Piezometer 3		--			2917		NC	11.82		NC	14.43		NC	318		NC	18.0		NC
TWN-1	35.55	71.10	88.00	OK	897.0	900.0	0.33	7.31	7.31	0.00	14.90	14.90	0.00	221	219	0.91	22	23	4.44
TWN-2	NA	Continuously Pumped Well			3051		NC	6.4		NC	14.53		NC	384		NC	0		NC
TWN-3	38.95	77.90	49.50	Pumped Dry	2411.0	2404.0	0.29	6.70	6.73	0.45	13.28	13.26	0.15	NM		NC	NM		NC
TWN-4	49.3	98.60	132.00	OK	1046.0	1044.0	0.19	7.08	7.10	0.28	14.66	14.64	0.14	259	257	0.78	192.0	192.0	0.00
TWN-7	11.88	23.76	16.50	Pumped Dry	1210.0	1212.0	0.17	6.49	6.55	0.92	13.51	13.57	0.44	NM		NC	NM		NC
TWN-18	56.02	112.04	132.00	OK	2203.0	2204.0	0.05	6.76	6.76	0.00	14.52	14.49	0.21	251	251	0.00	182.0	183.0	0.55
TW4-22	NA	Continuously pumped well			5847		NC	6.60		NC	14.33		NC	244		NC	0		NC
TW4-24	NA	Continuously pumped well			5890		NC	6.37		NC	14.59		NC	233		NC	0		NC
TW4-25	NA	Continuously pumped well			2900		NC	6.71		NC	15.74		NC	257		NC	1.9		NC

NC = Not Calculated

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	1/13/2014	1/21/2014	8	28	OK
PIEZ-01	Nitrate/Nitrite (as N)	1/13/2014	1/22/2014	9	28	OK
PIEZ-02	Chloride	1/13/2014	1/21/2014	8	28	OK
PIEZ-02	Nitrate/Nitrite (as N)	1/13/2014	1/22/2014	9	28	OK
PIEZ-03	Chloride	1/13/2014	1/21/2014	8	28	OK
PIEZ-03	Nitrate/Nitrite (as N)	1/13/2014	1/22/2014	9	28	OK
TWN-01	Chloride	1/14/2014	1/20/2014	6	28	OK
TWN-01	Nitrate/Nitrite (as N)	1/14/2014	1/22/2014	8	28	OK
TWN-02	Chloride	1/13/2014	1/20/2014	7	28	OK
TWN-02	Nitrate/Nitrite (as N)	1/13/2014	1/22/2014	9	28	OK
TWN-03	Chloride	1/15/2014	1/20/2014	5	28	OK
TWN-03	Nitrate/Nitrite (as N)	1/15/2014	1/22/2014	7	28	OK
TWN-04	Chloride	1/14/2014	1/20/2014	6	28	OK
TWN-04	Nitrate/Nitrite (as N)	1/14/2014	1/22/2014	8	28	OK
TWN-07	Chloride	1/15/2014	1/20/2014	5	28	OK
TWN-07	Nitrate/Nitrite (as N)	1/15/2014	1/22/2014	7	28	OK
TWN-07R	Chloride	1/14/2014	1/20/2014	6	28	OK
TWN-07R	Nitrate/Nitrite (as N)	1/14/2014	1/22/2014	8	28	OK
TWN-18	Chloride	1/14/2014	1/20/2014	6	28	OK
TWN-18	Nitrate/Nitrite (as N)	1/14/2014	1/22/2014	8	28	OK
TW4-22	Chloride	1/27/2014	2/4/2014	8	28	OK
TW4-22	Nitrate/Nitrite (as N)	1/27/2014	1/31/2014	4	28	OK
TW4-24	Chloride	1/27/2014	2/4/2014	8	28	OK
TW4-24	Nitrate/Nitrite (as N)	1/27/2014	1/31/2014	4	28	OK
TW4-25	Chloride	1/27/2014	2/6/2014	10	28	OK
TW4-25	Nitrate/Nitrite (as N)	1/27/2014	1/31/2014	4	28	OK
TW4-60	Chloride	2/6/2014	2/11/2014	5	28	OK
TW4-60	Nitrate/Nitrite (as N)	2/6/2014	2/14/2014	8	28	OK
TWN-60	Chloride	1/15/2014	1/21/2014	6	28	OK
TWN-60	Nitrate/Nitrite (as N)	1/15/2014	1/22/2014	7	28	OK
TWN-65	Chloride	1/14/2014	1/21/2014	7	28	OK
TWN-65	Nitrate/Nitrite (as N)	1/14/2014	1/22/2014	8	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	2	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)	0.2	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-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-07R	Chloride	1	mg/L	U	1	mg/L	OK
TWN-07R	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK
TWN-18	Chloride	10	mg/L		1	mg/L	OK
TWN-18	Nitrate/Nitrite (as N)	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	500	mg/L		1	mg/L	OK
TW4-24	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK
TW4-25	Chloride	10	mg/L		1	mg/L	OK
TW4-25	Nitrate/Nitrite (as N)	1	mg/L		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-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
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	28.4	26.4	7.30
Nitrogen	1.41	1.33	5.84

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
1401249	1401249-006BMS	TWN-03	Nitrate	103	122	90 - 110	11.8
1401249	1401249-007BMS	TWN-02	Nitrate	106	118	90 - 110	7.97

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

H-7 Receipt Temperature Evaluation

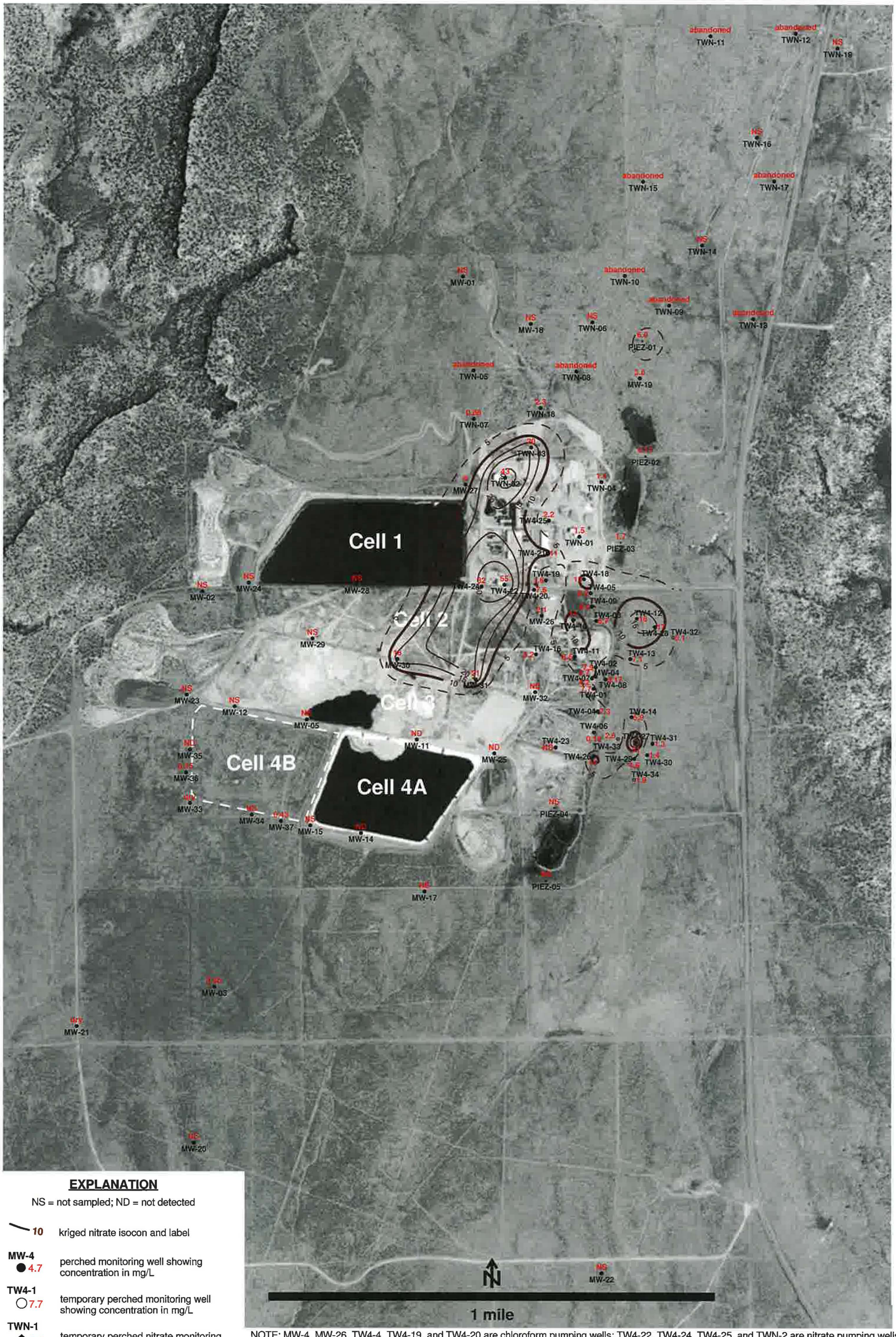
Sample Batch	Wells in Batch	Temperature
1401249	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-7, TWN-18, TWN-60, TWN-65	2.5 °C
1401525	TW4-22, TW4-24, TW4-25	2.7 °C
1402140	TW4-60	2.9 °C

H-8 Rinsate Evaluation

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

Tab I

Kriged Current Quarter Isoconcentration Maps



EXPLANATION

NS = not sampled; ND = not detected

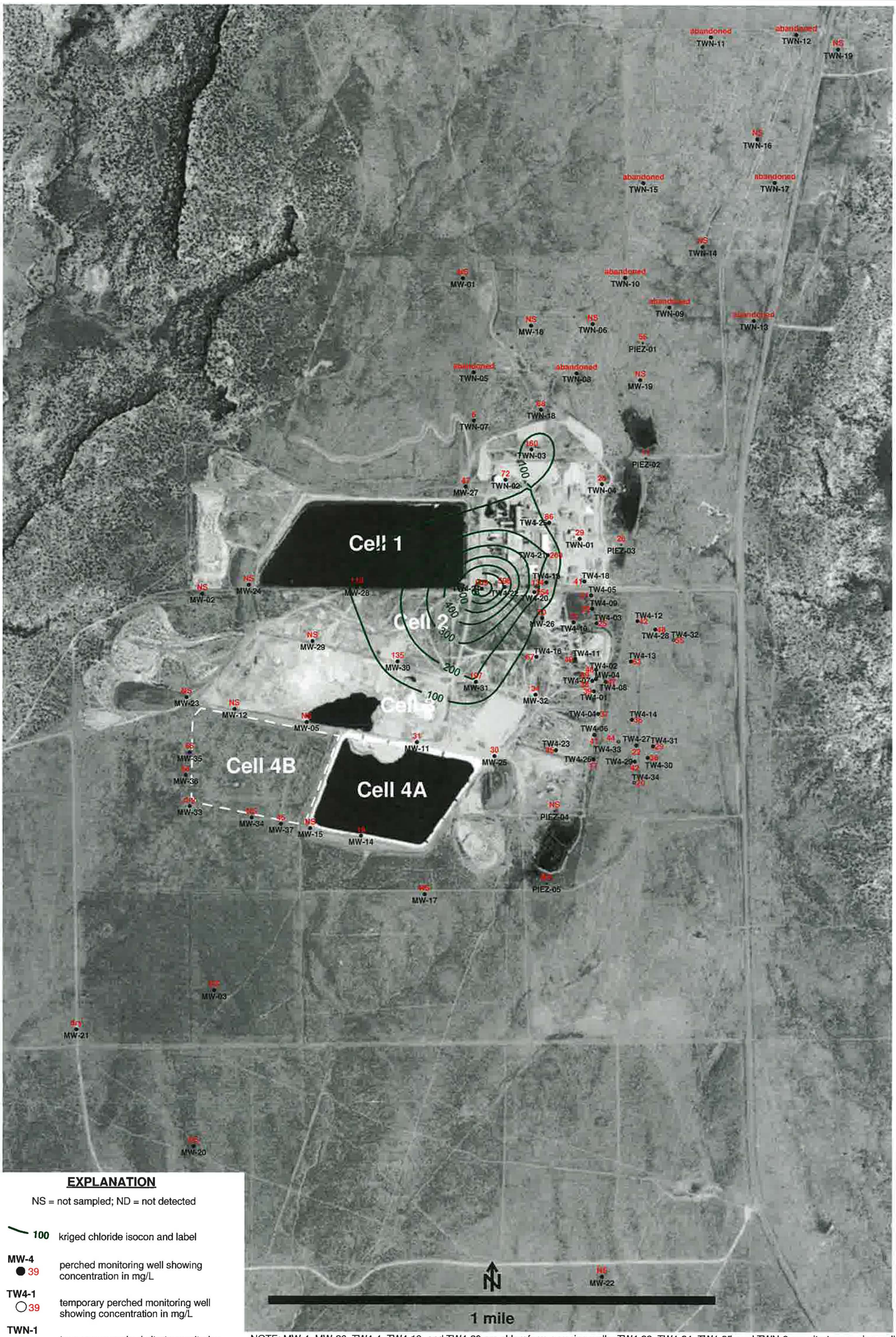
- 10 — kriged nitrate isocon and label
- MW-4 ● 4.7 — perched monitoring well showing concentration in mg/L
- TW4-1 ○ 7.7 — temporary perched monitoring well showing concentration in mg/L
- TWN-1 ◆ 1.5 — temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 ◒ 6.8 — perched piezometer showing concentration in mg/L
- TW4-32 ☼ 5.1 — temporary perched monitoring well installed September, 2013 showing concentration in mg/L

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 1st QUARTER, 2014 NITRATE (mg/L) (NITRATE + NITRITE AS N) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/nitrate/Unt0314.srf	I-1



EXPLANATION

NS = not sampled; ND = not detected

- 100 — kriged chloride isocon and label
- MW-4 ● 39 — perched monitoring well showing concentration in mg/L
- TW4-1 ○ 39 — temporary perched monitoring well showing concentration in mg/L
- TWN-1 ◇ 29 — temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 ◒ 56 — perched piezometer showing concentration in mg/L
- TW4-32 ☼ 55 — temporary perched monitoring well installed September, 2013 showing concentration in mg/L

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 1st QUARTER, 2014 CHLORIDE (mg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may14/chloride/Ucl0314.srf	I-2

Tab J

Analyte Concentrations Over Time

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
10/16/2013	6.68	54.1
1/13/2014	6.79	56.2

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
10/16/2013	0.364	9.22
1/13/2014	0.169	11.4

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
10/16/2013	1.80	23.5
1/13/2014	1.70	26.0

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
10/16/2013	1.61	26.8
1/14/2014	1.47	29.2

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
10/16/2013	111	70.4
1/13/2014	42.6	72.4

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
10/17/2013	23.5	163
1/15/2014	19.6	160

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
10/16/2013	1.69	29.4
1/14/2014	1.41	28.4

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
10/16/2013	0.986	5.70
1/15/2014	0.882	5.75

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
10/16/2013	2.15	67.3
1/14/2014	2.33	68.4

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	10/29/2013	206
2/17/2010	2.00	1/27/2014	134
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		
10/29/2013	4.70		
1/27/2014	1.62		

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	11/13/2013	206
6/18/2013	13.8	2/5/2014	200
9/12/2013	10.3		
11/13/2013	9.0		
2/5/2014	11.4		

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)
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
10/29/2013	45.2	501
1/27/2014	54.6	598

TW4-24

Date	Nitrate (mg/l)	Chloride (mg/l)
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
10/29/2013	34.6	1030
1/27/2014	31.6	809

TW4-25

Date	Nitrate (mg/l)	Chloride (mg/l)
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
10/29/2013	6.10	88.6
1/27/2014	2.16	85.7

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	10/22/2013	128
4/17/2013	16.8	11/20/2013	124
5/15/2013	18.8	12/18/2013	134
6/25/2013	16.1	1/8/2014	131
7/10/2013	17.6	2/25/2014	135
8/20/2013	16.4	3/11/2014	144
9/18/2013	16.9		
10/22/2013	19.7		
11/20/2013	19.5		
12/18/2013	20.7		
1/8/2014	24.0		
2/25/2014	18.4		
3/11/2014	21.3		

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

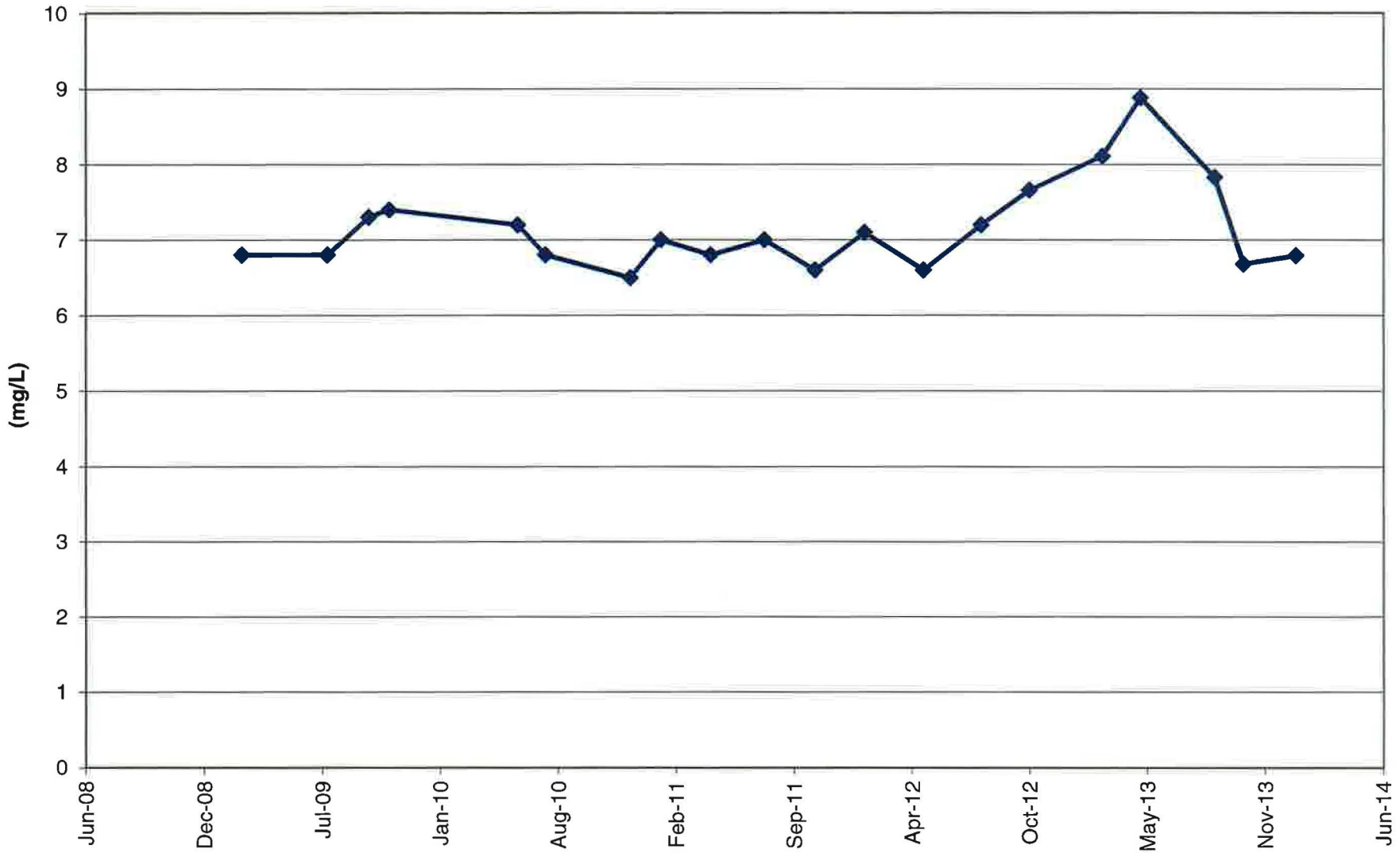
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/18/2012	21.6	1/22/2013	176
7/9/2012	21.0	2/19/2013	174
8/6/2012	21.0	3/19/2013	168
9/18/2012	21.0	4/16/2013	171
10/22/2012	18.0	5/13/2013	169
11/6/2012	23.6	6/24/2013	179
12/18/2012	22.2	7/9/2013	182
1/22/2013	22.8	8/19/2013	183
2/19/2013	19.3	9/17/2013	193
3/19/2013	19.1	10/23/2013	188
4/16/2013	18.8	11/18/2013	174
5/13/2013	23.8	12/17/2013	203
6/24/2013	20.0	1/7/2014	194
7/9/2013	21.7	2/17/2014	197
8/19/2013	16.0	3/10/2014	230
9/17/2013	21.2		
10/23/2013	21.2		
11/18/2013	23.9		
12/17/2013	24.2		
1/7/2014	24.0		
2/17/2014	20.6		
3/10/2014	26.2		

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.

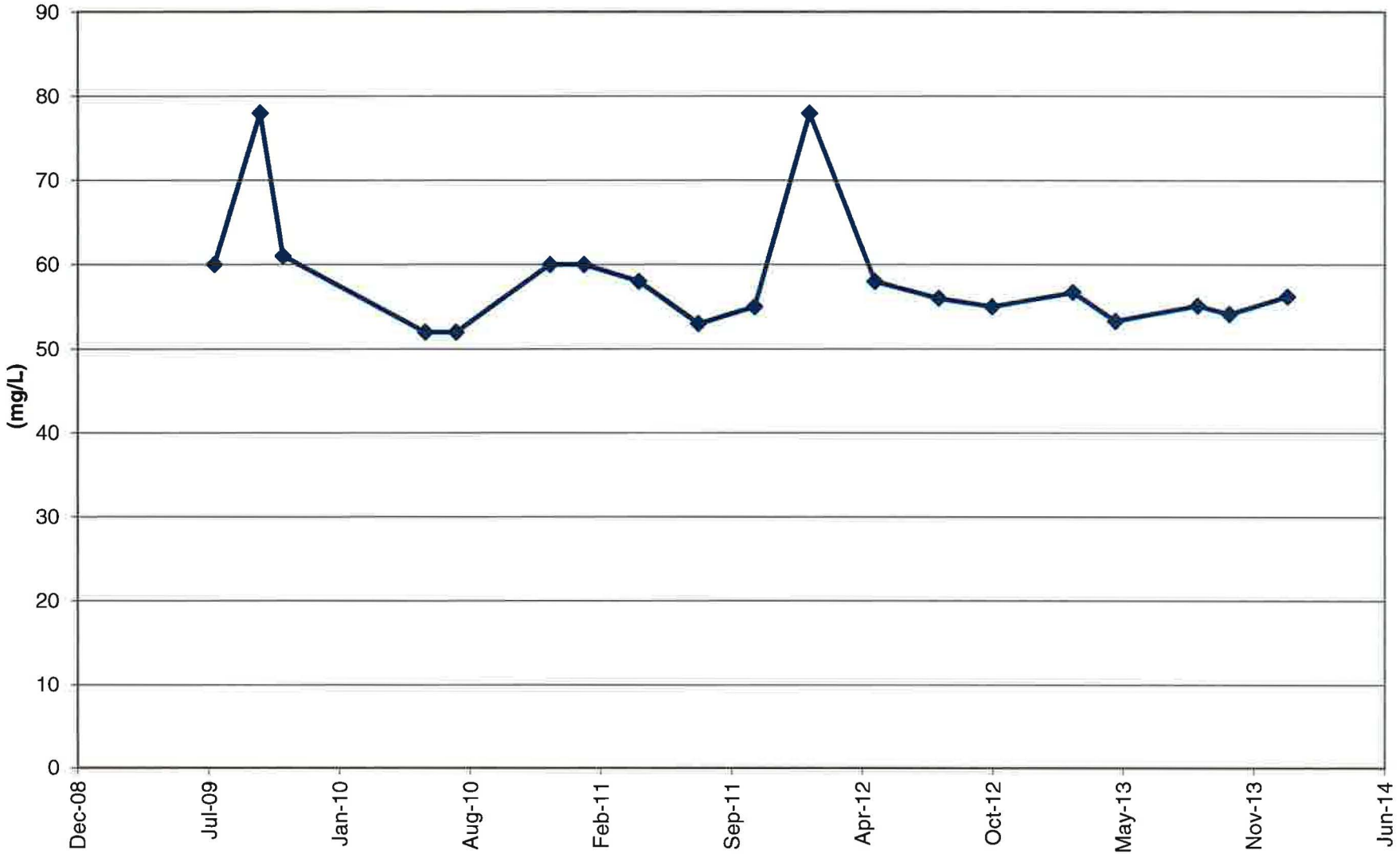
Tab K

Concentration Trend Graphs

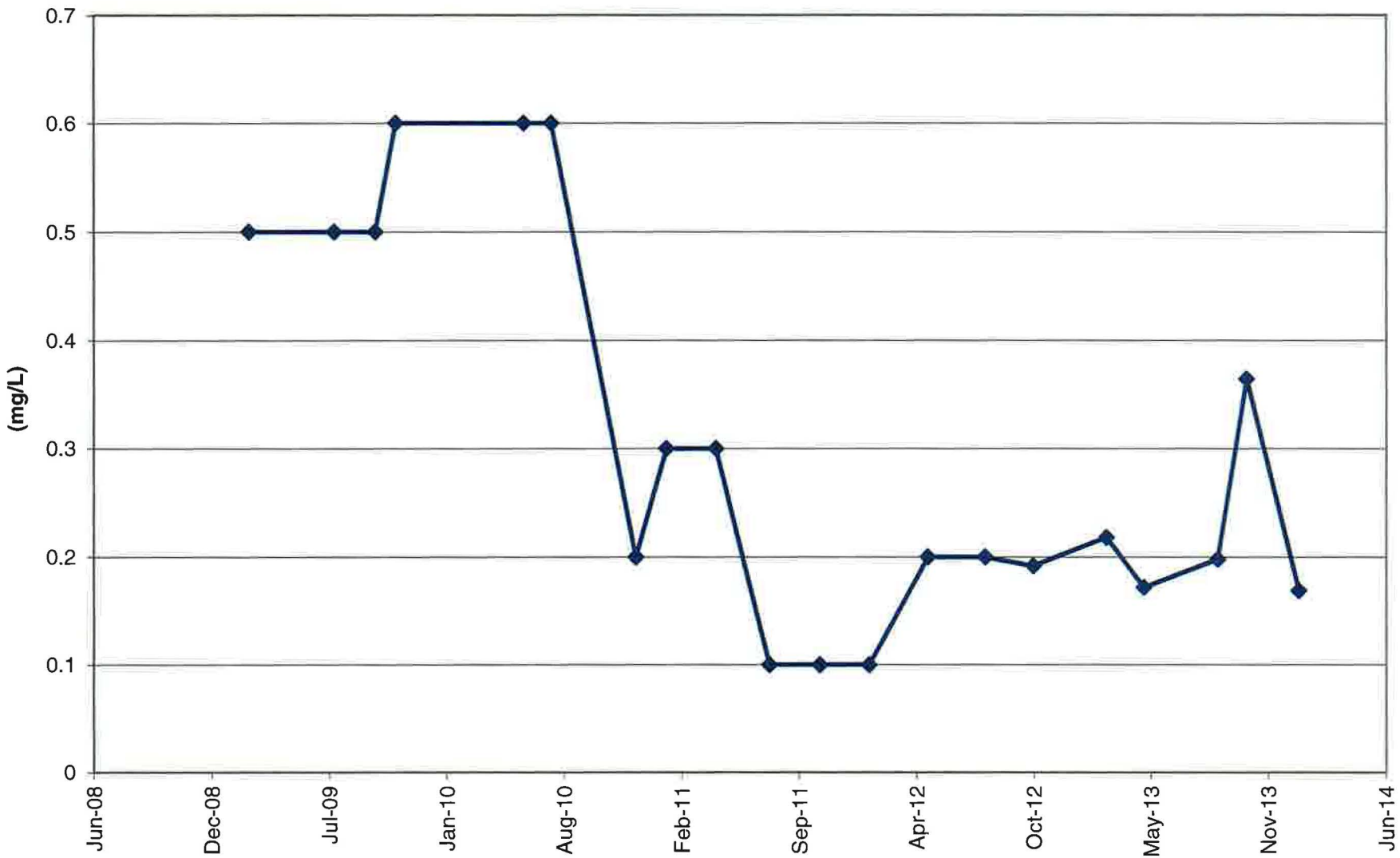
Piezometer 1 Nitrate Concentrations



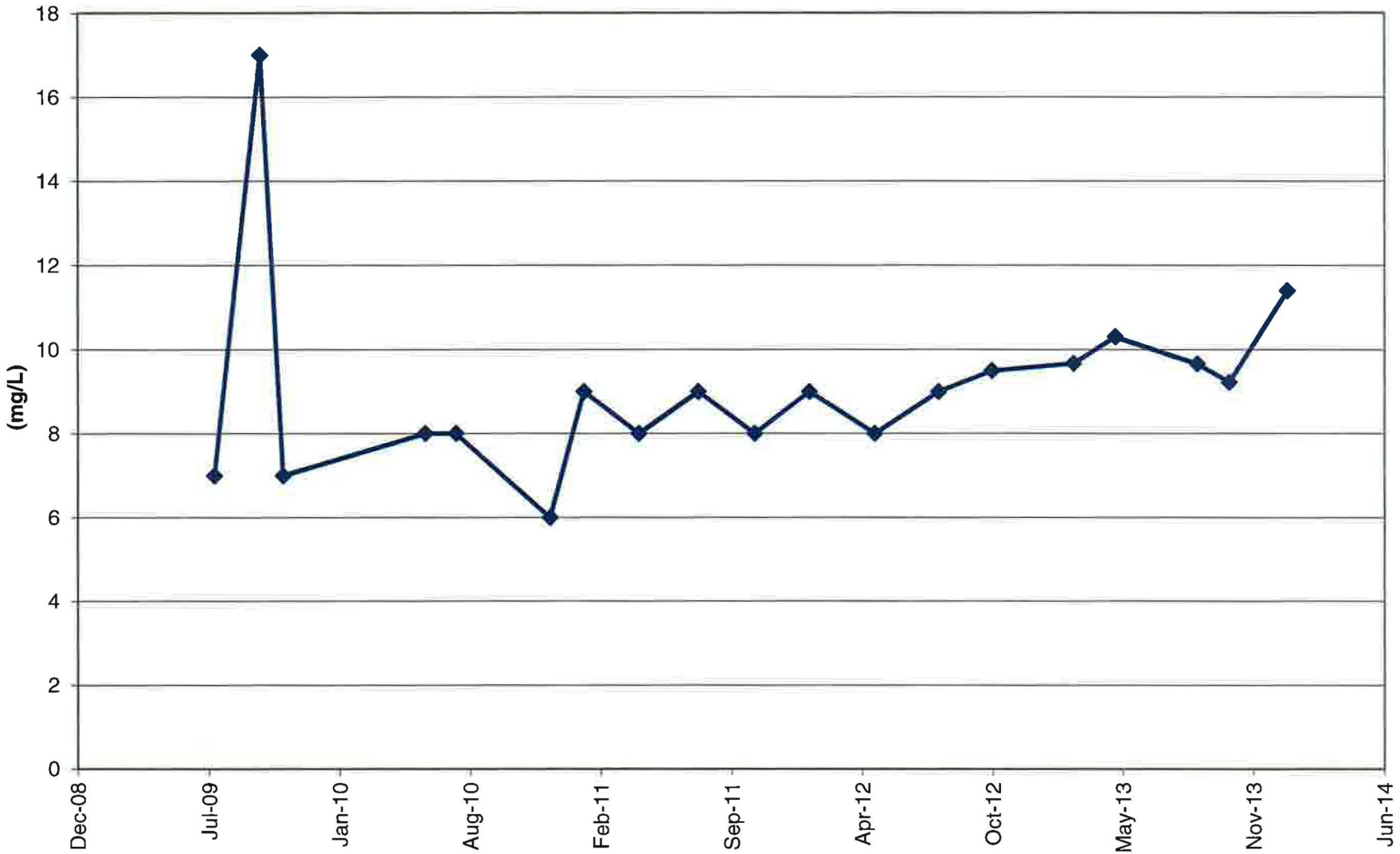
Piezometer 1 Chloride Concentrations



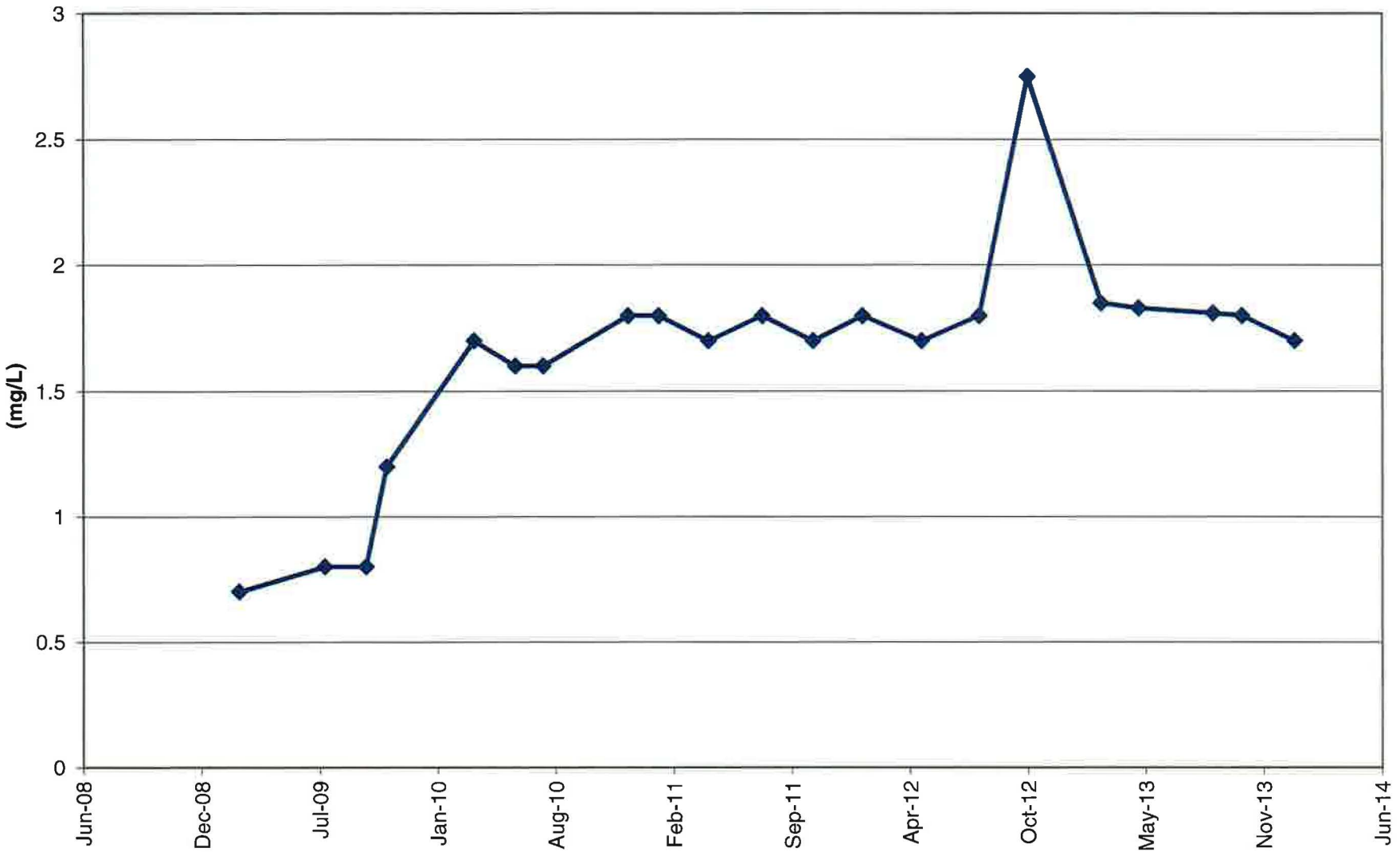
Piezometer 2 Nitrate Concentrations



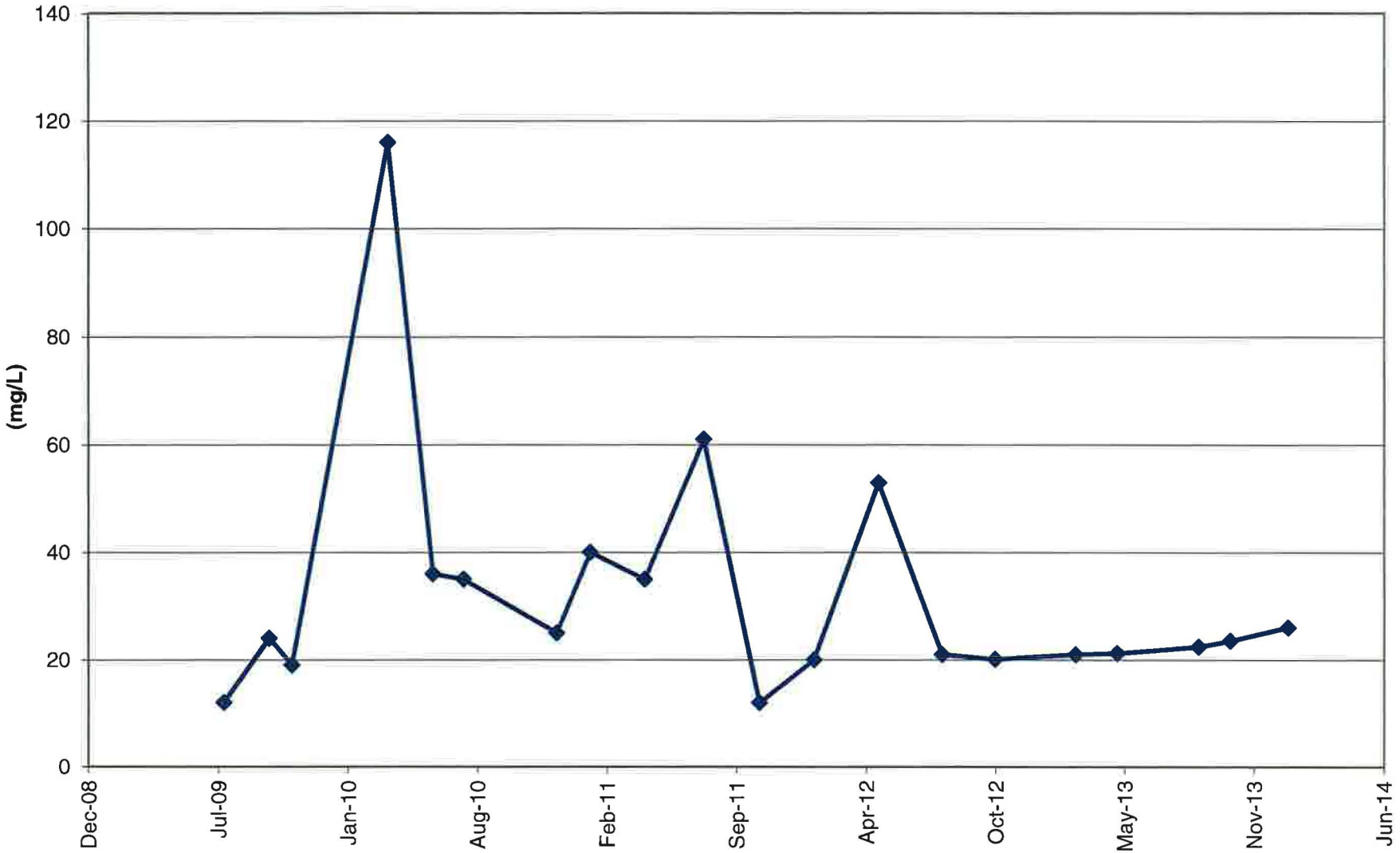
Piezometer 2 Chloride Concentrations



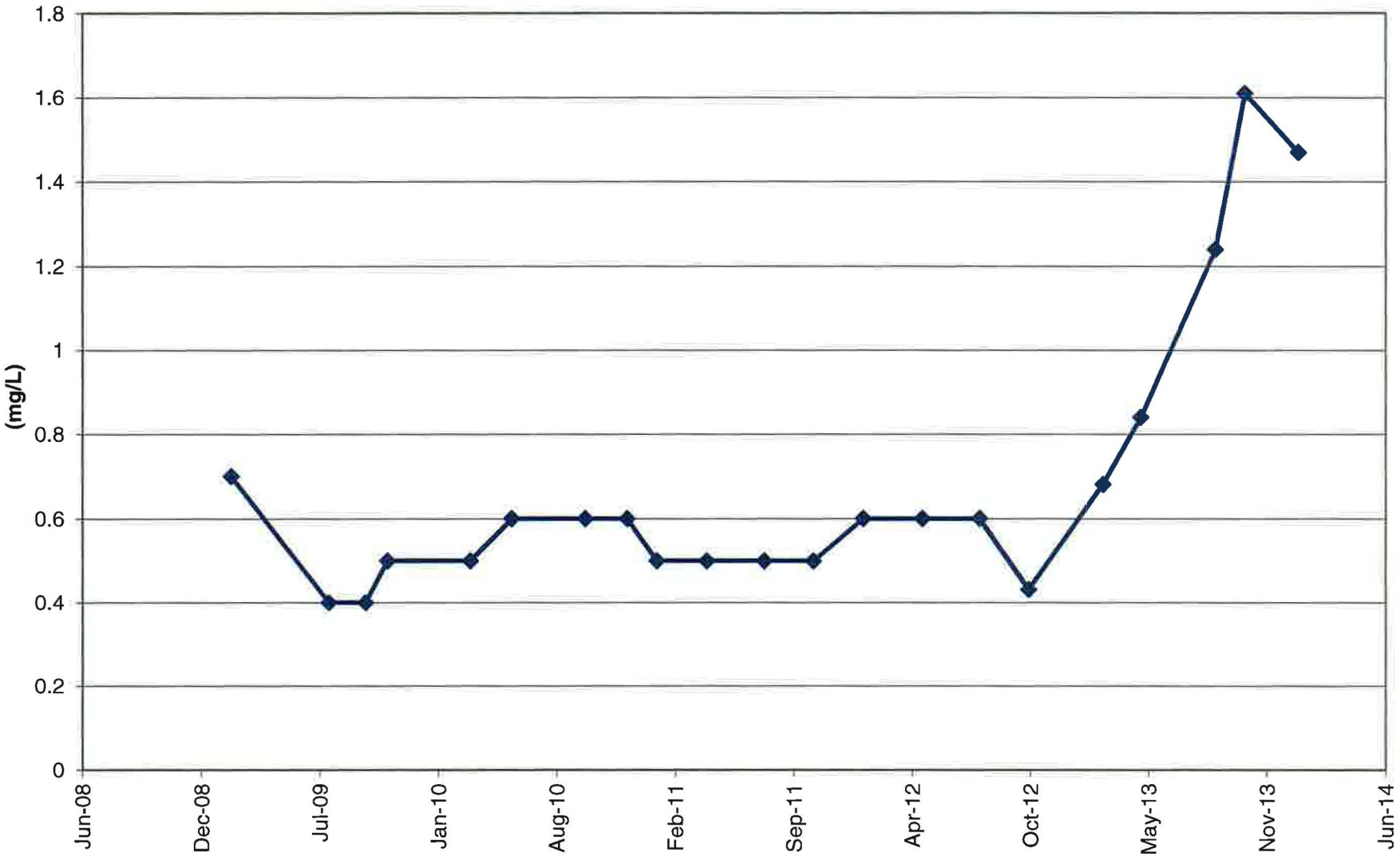
Piezometer 3 Nitrate Concentrations



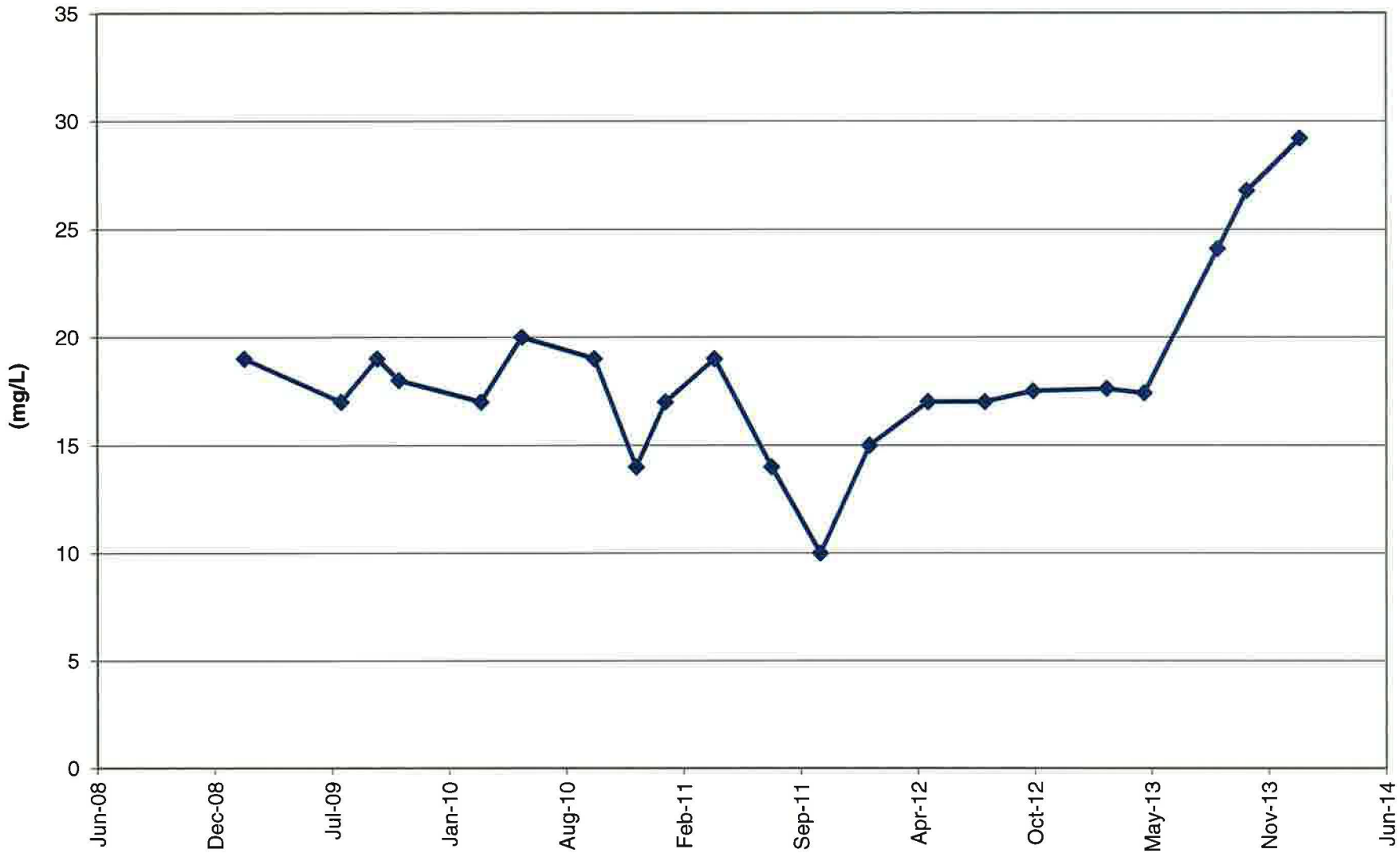
Piezometer 3 Chloride Concentrations



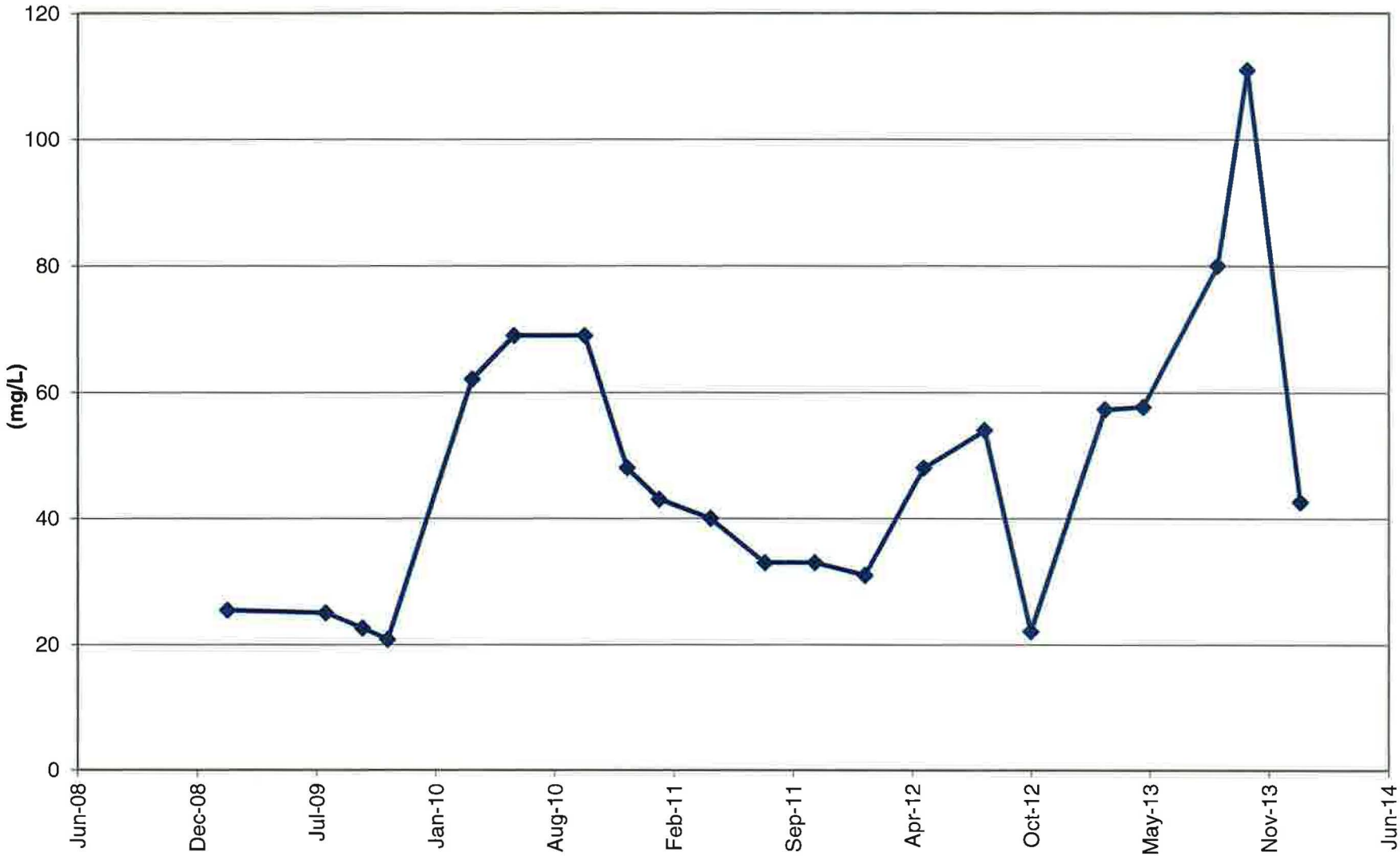
TWN-1 Nitrate Concentrations



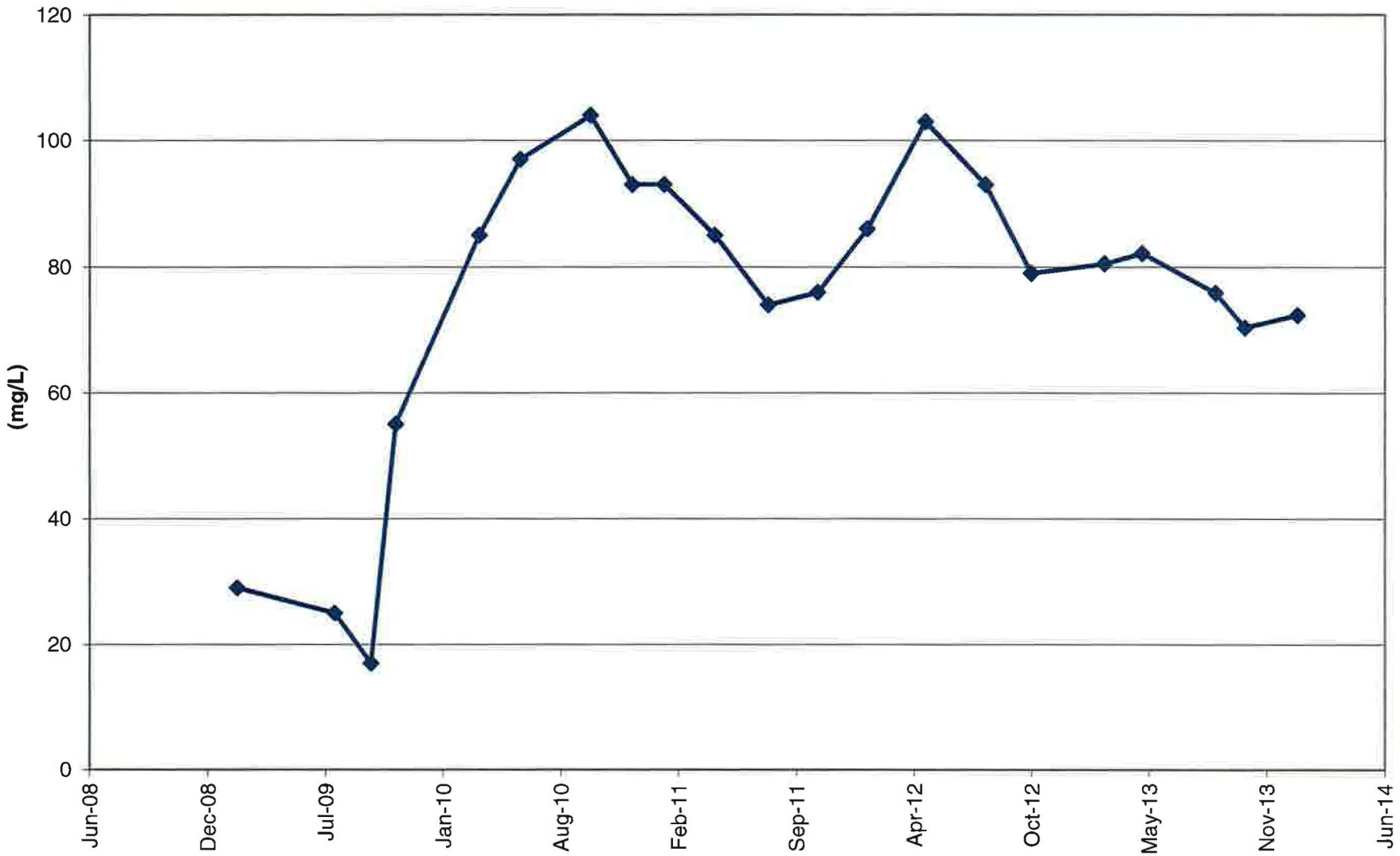
TWN-1 Chloride Concentrations



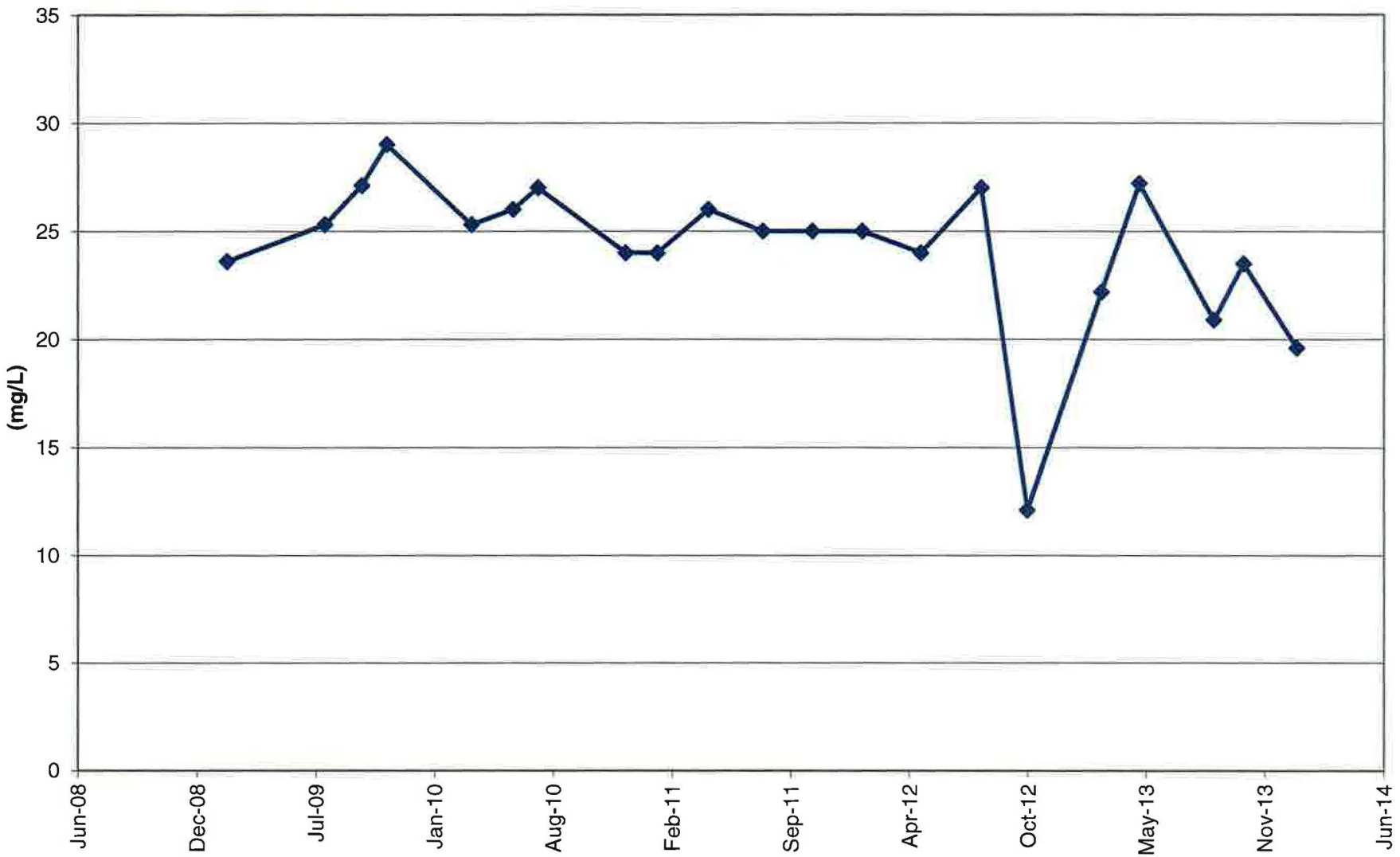
TWN-2 Nitrate Concentrations



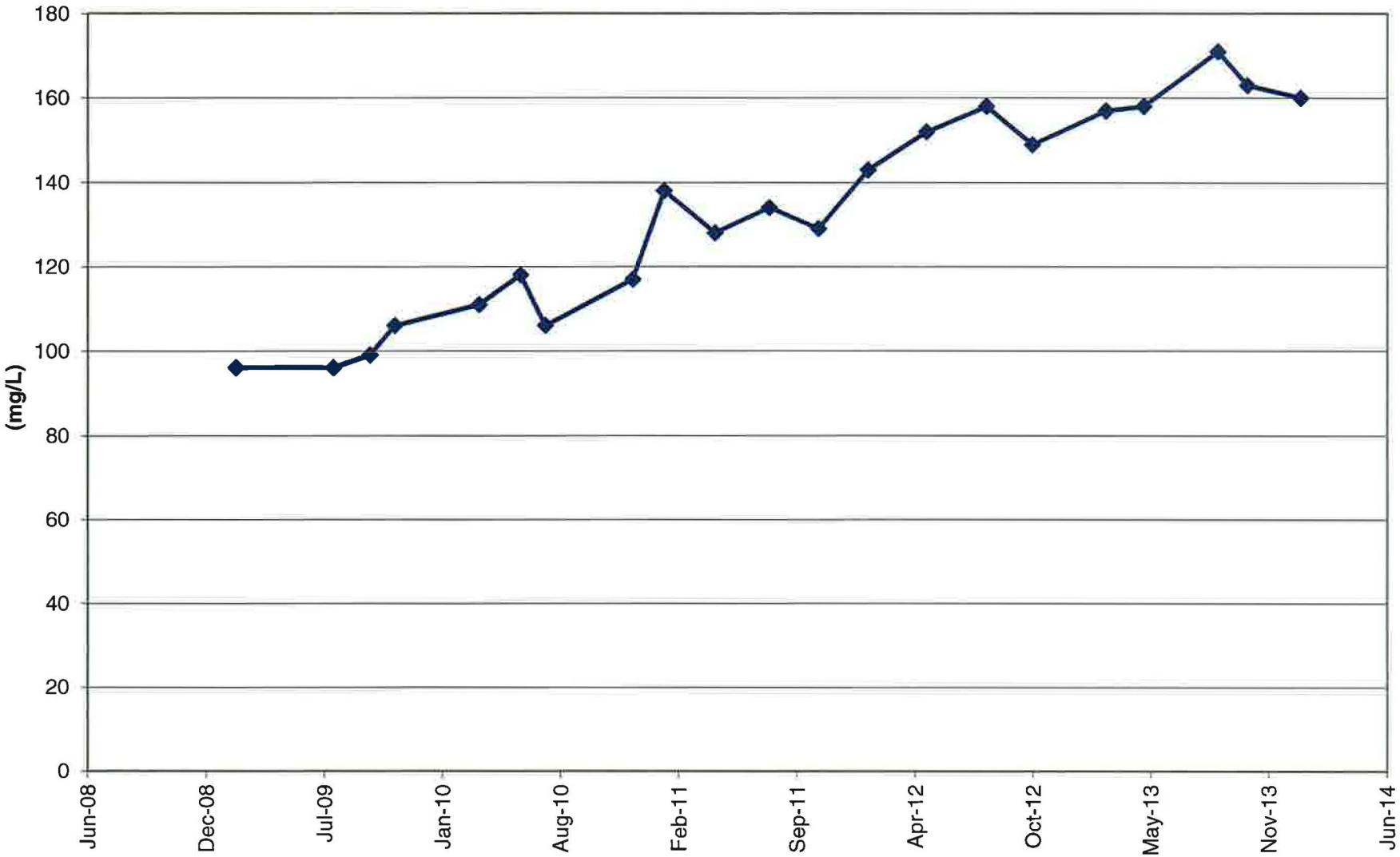
TWN-2 Chloride Concentrations



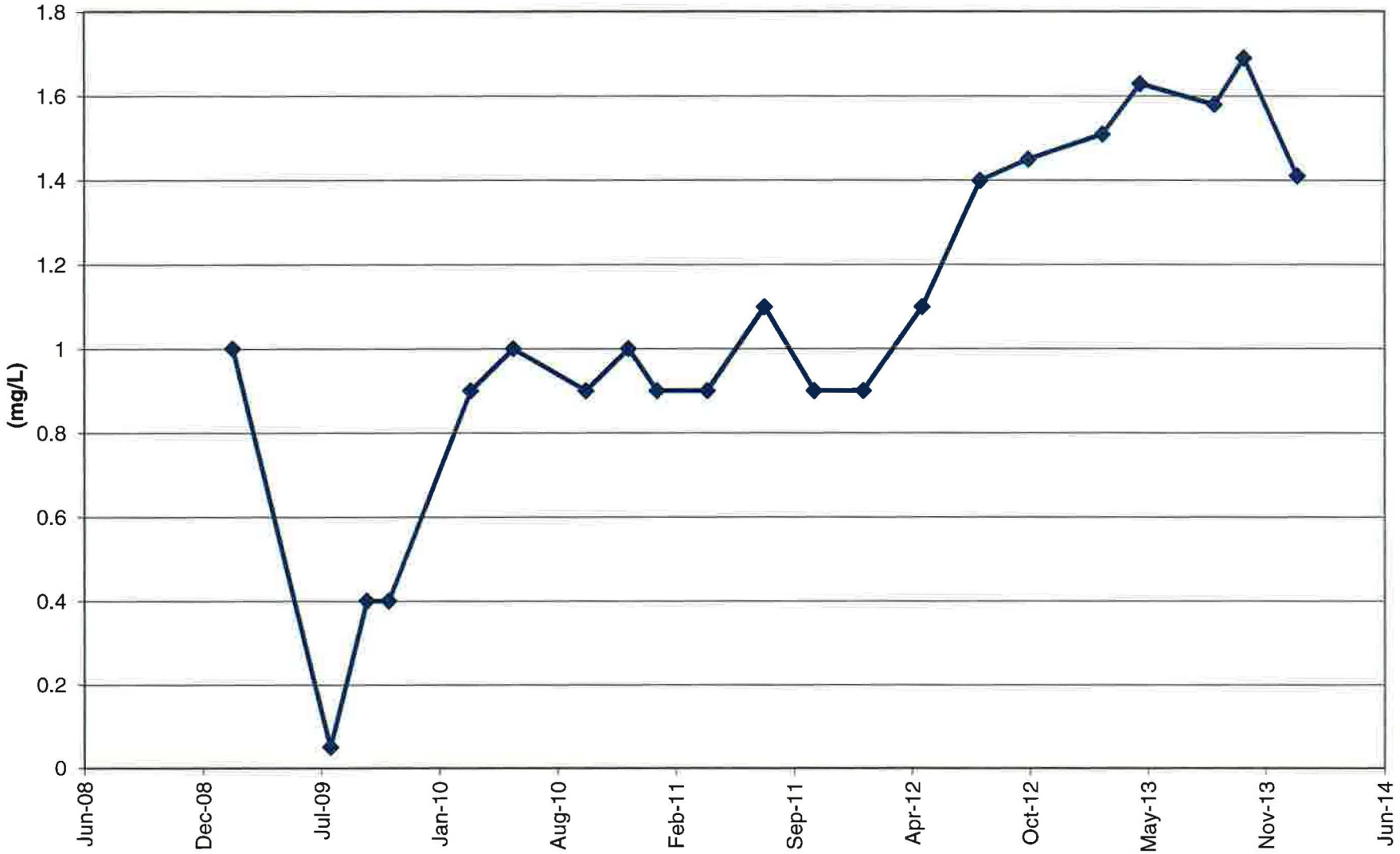
TWN-3 Nitrate Concentrations



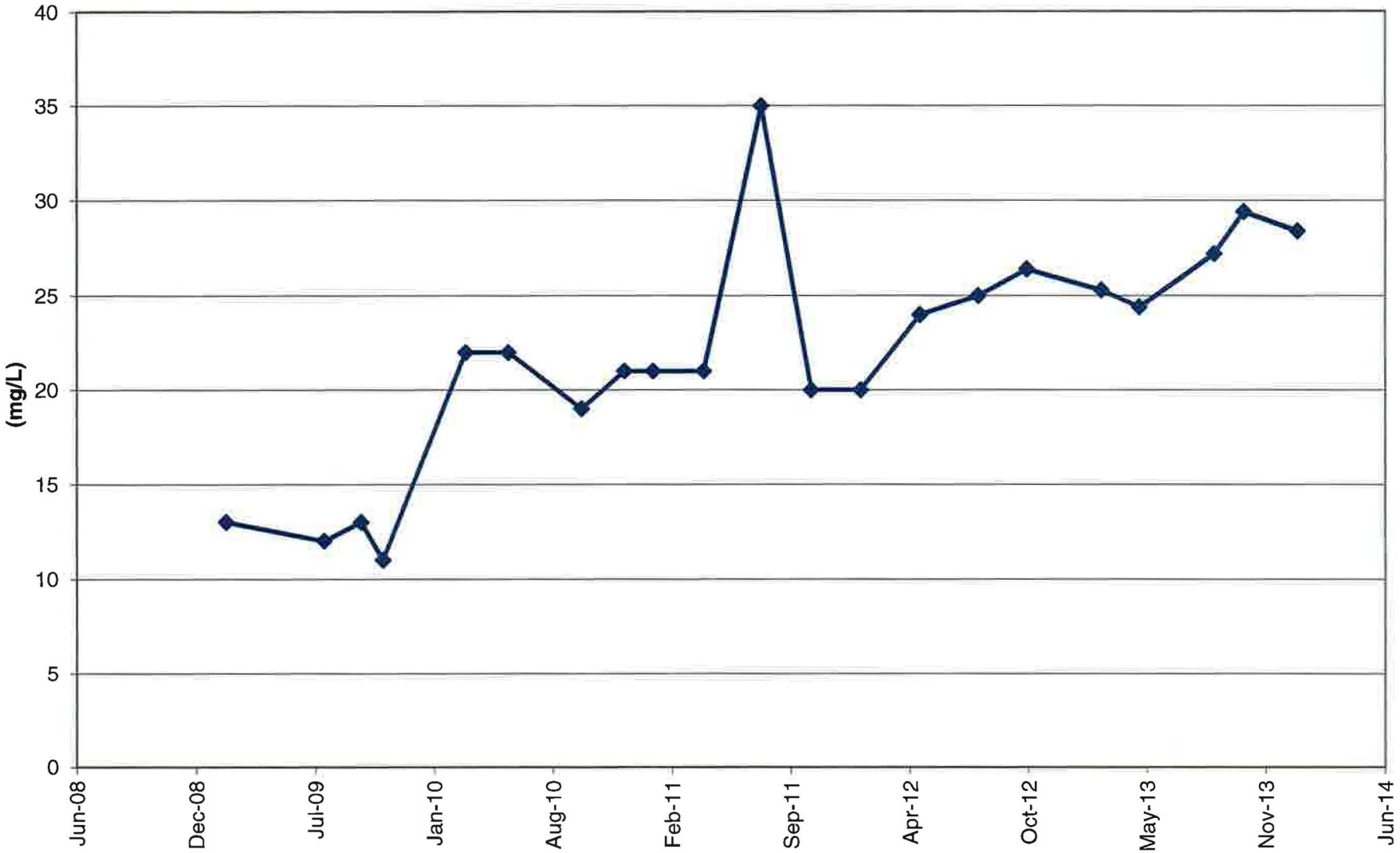
TWN-3 Chloride Concentrations



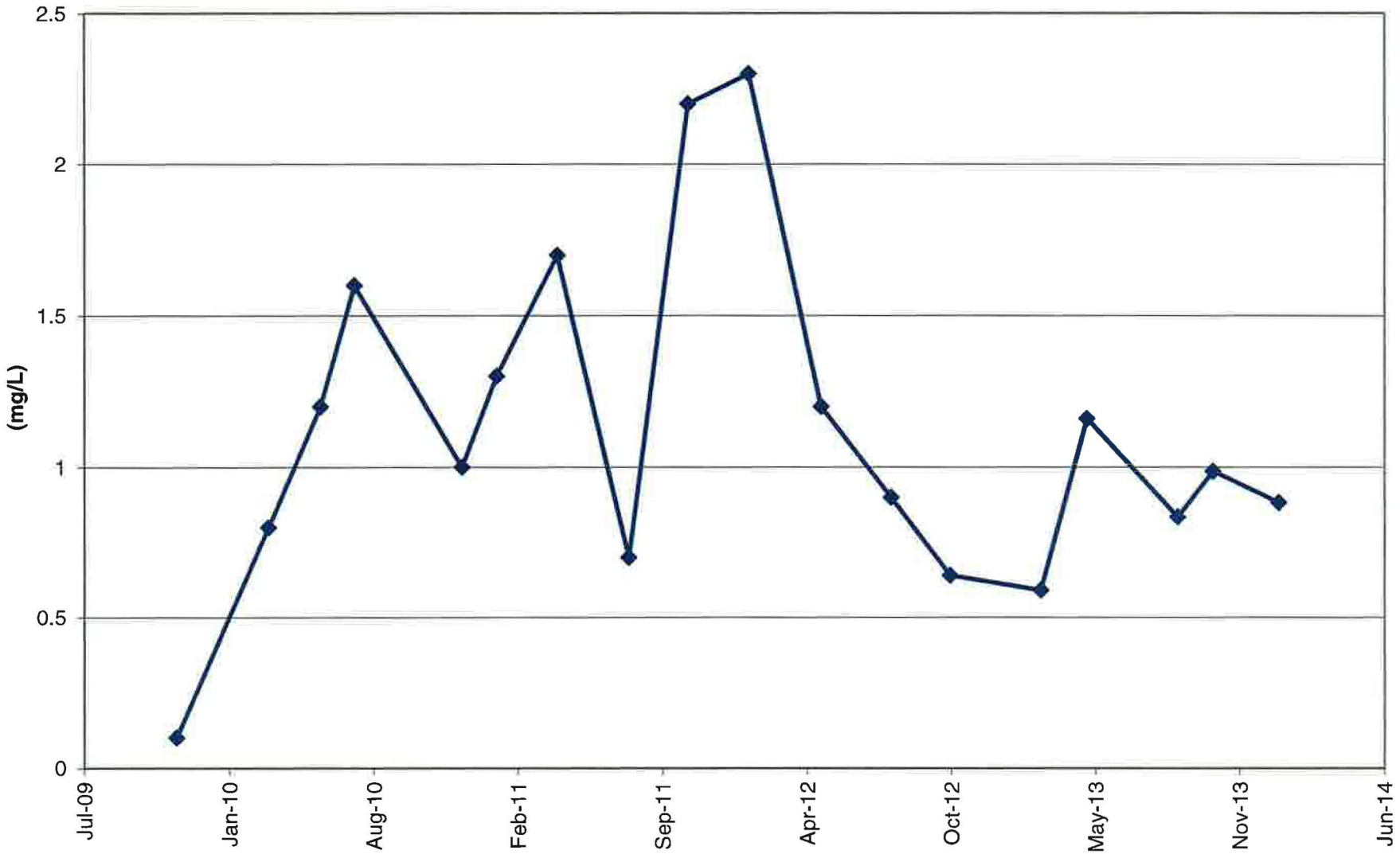
TWN-4 Nitrate Concentrations



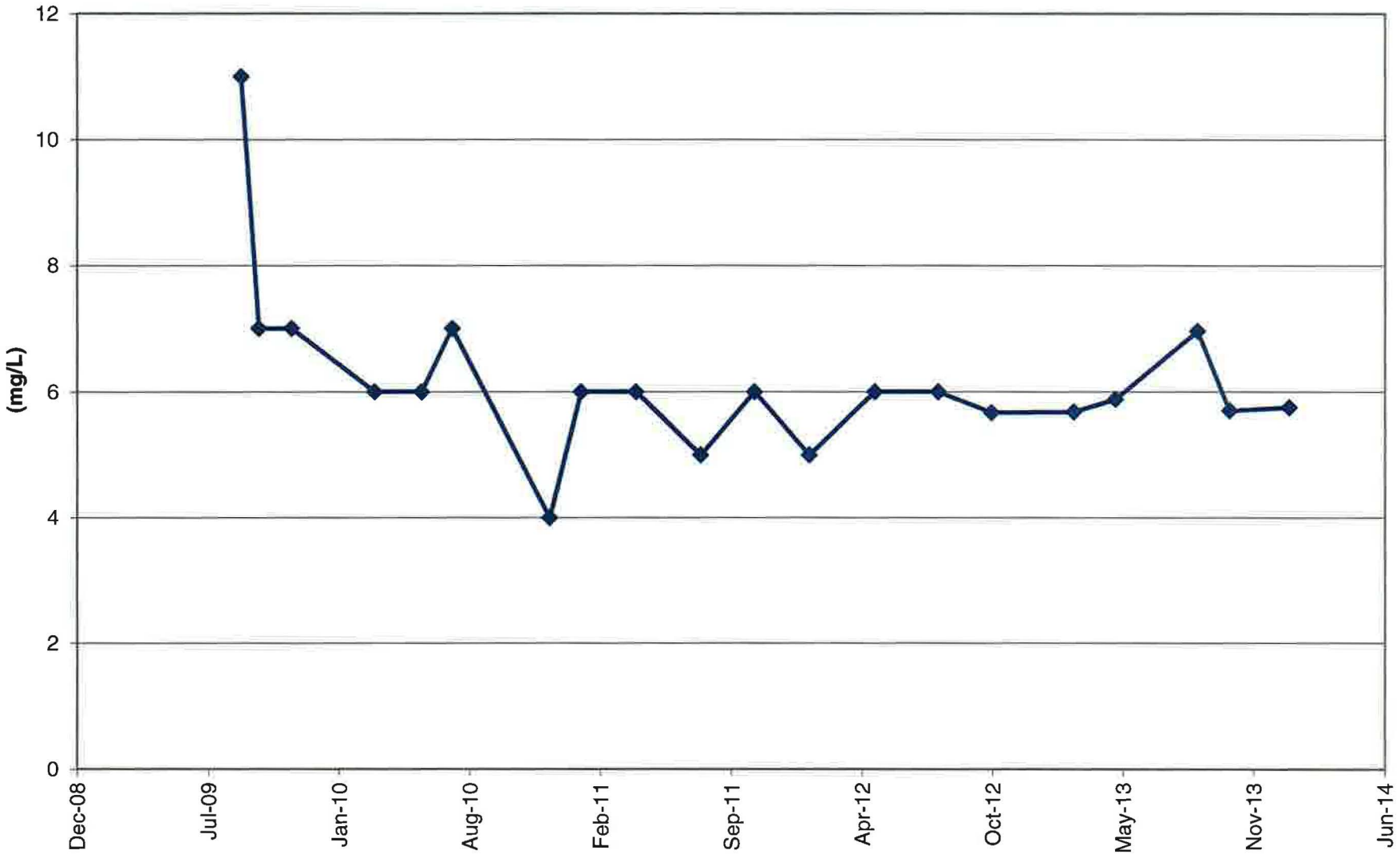
TWN-4 Chloride Concentrations



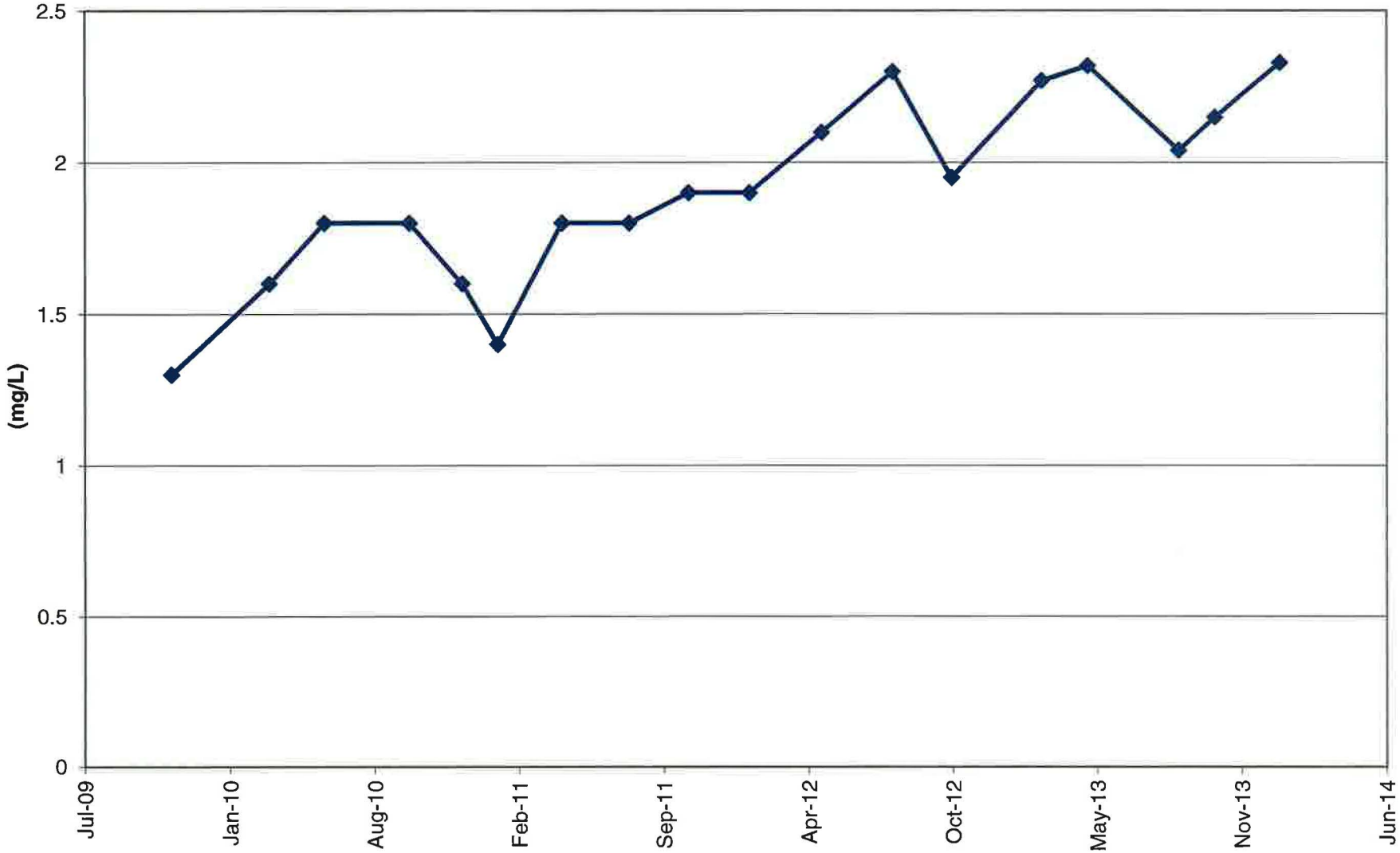
TWN-7 Nitrate Concentrations



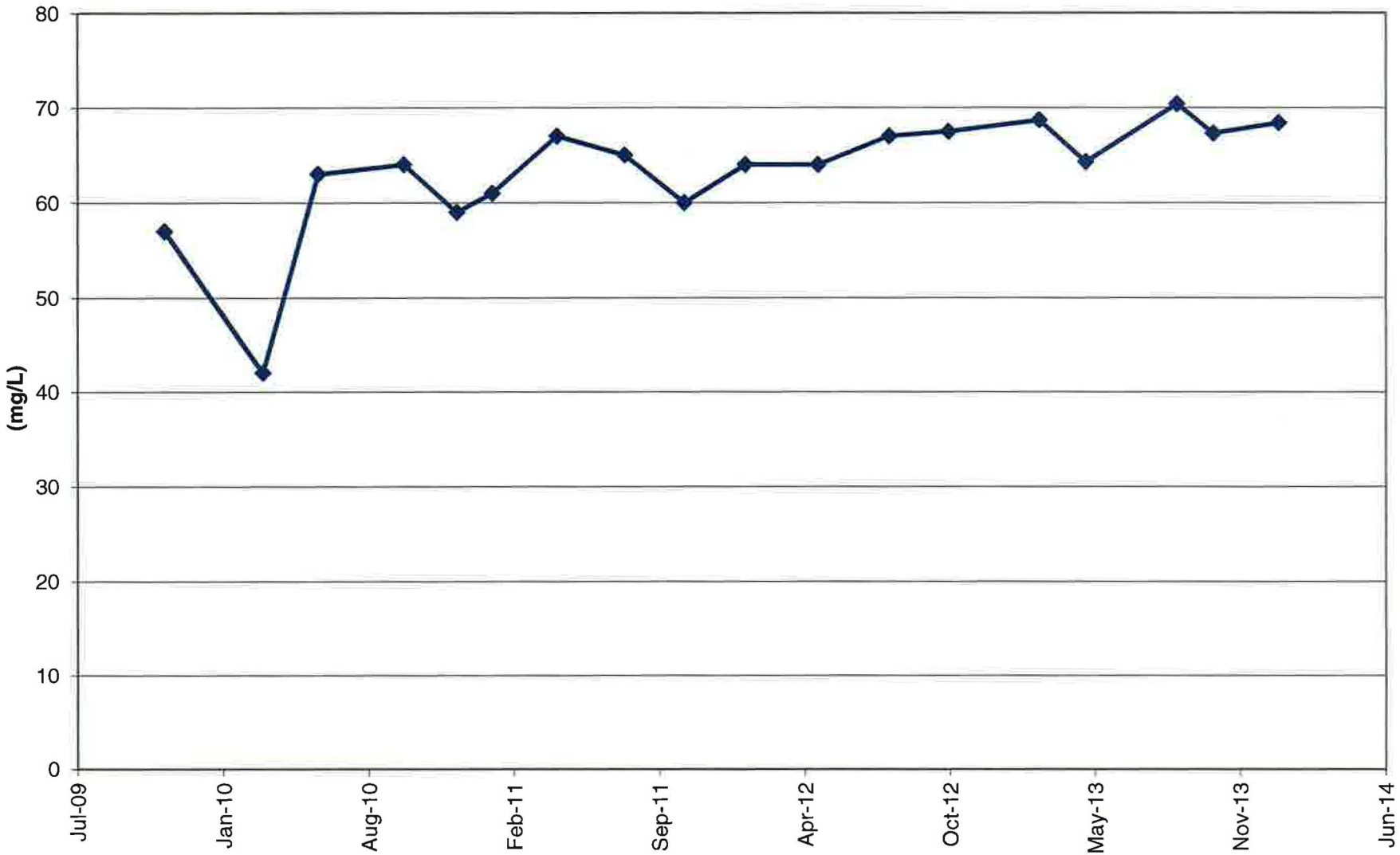
TWN-7 Chloride Concentrations

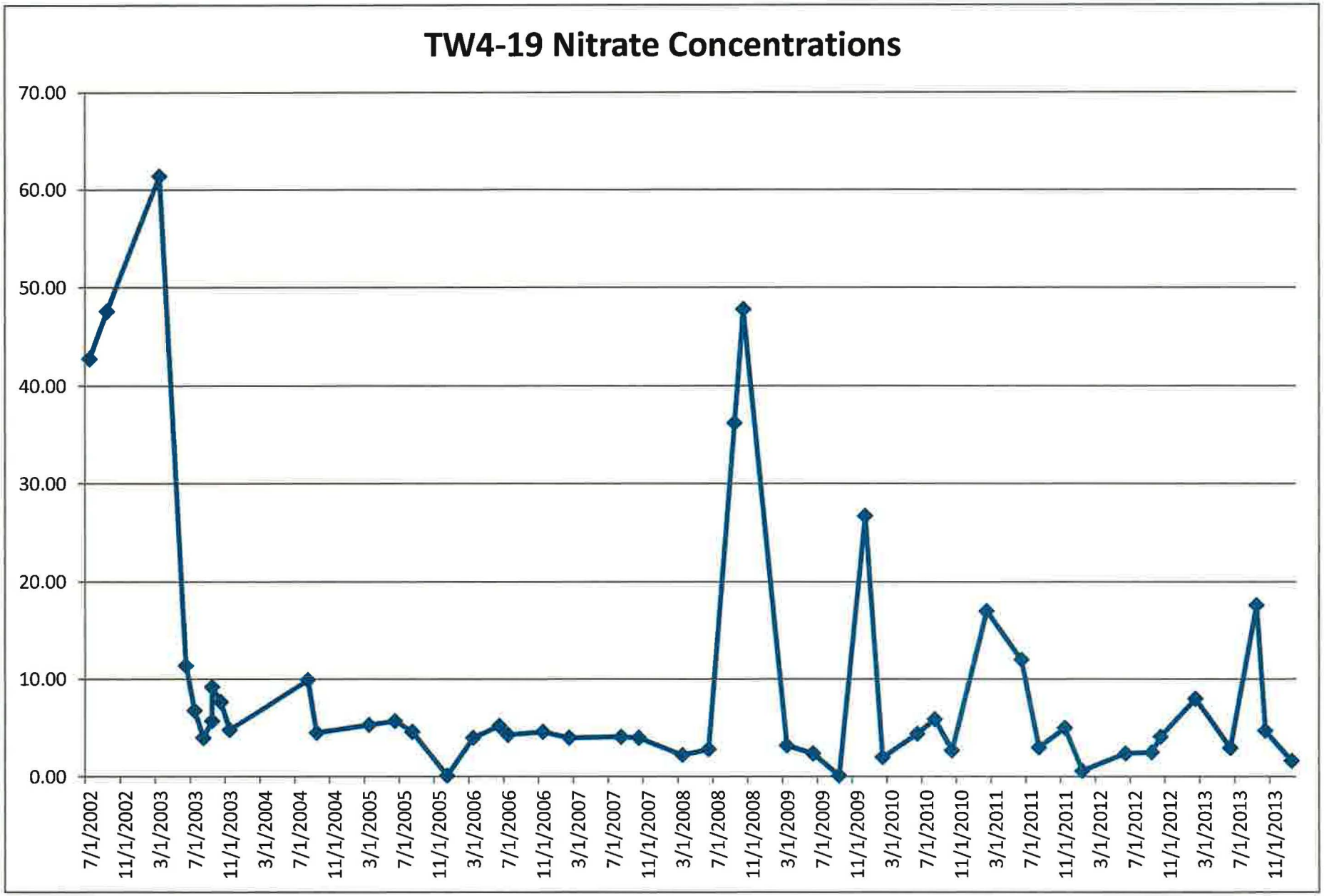


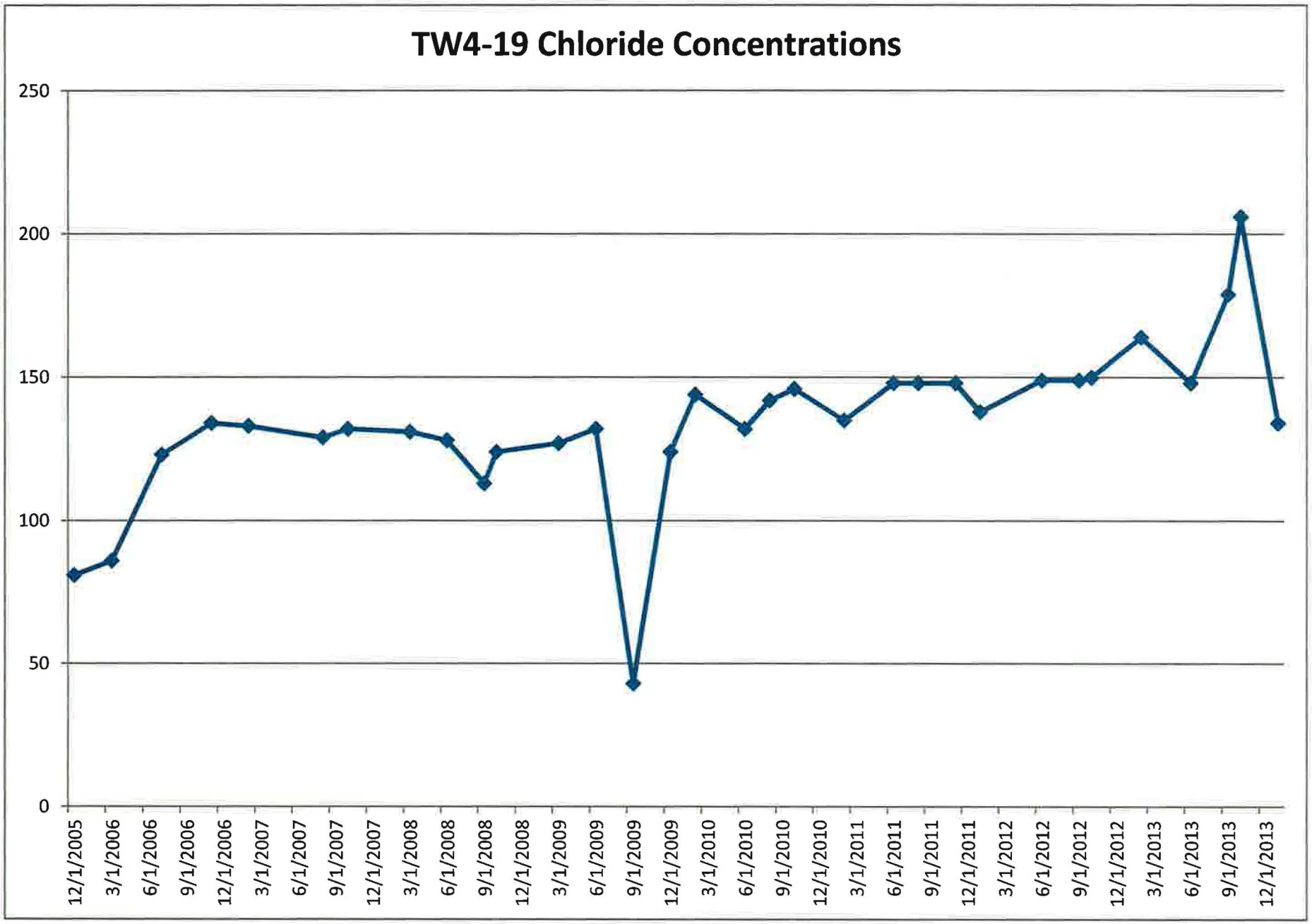
TWN-18 Nitrate Concentrations

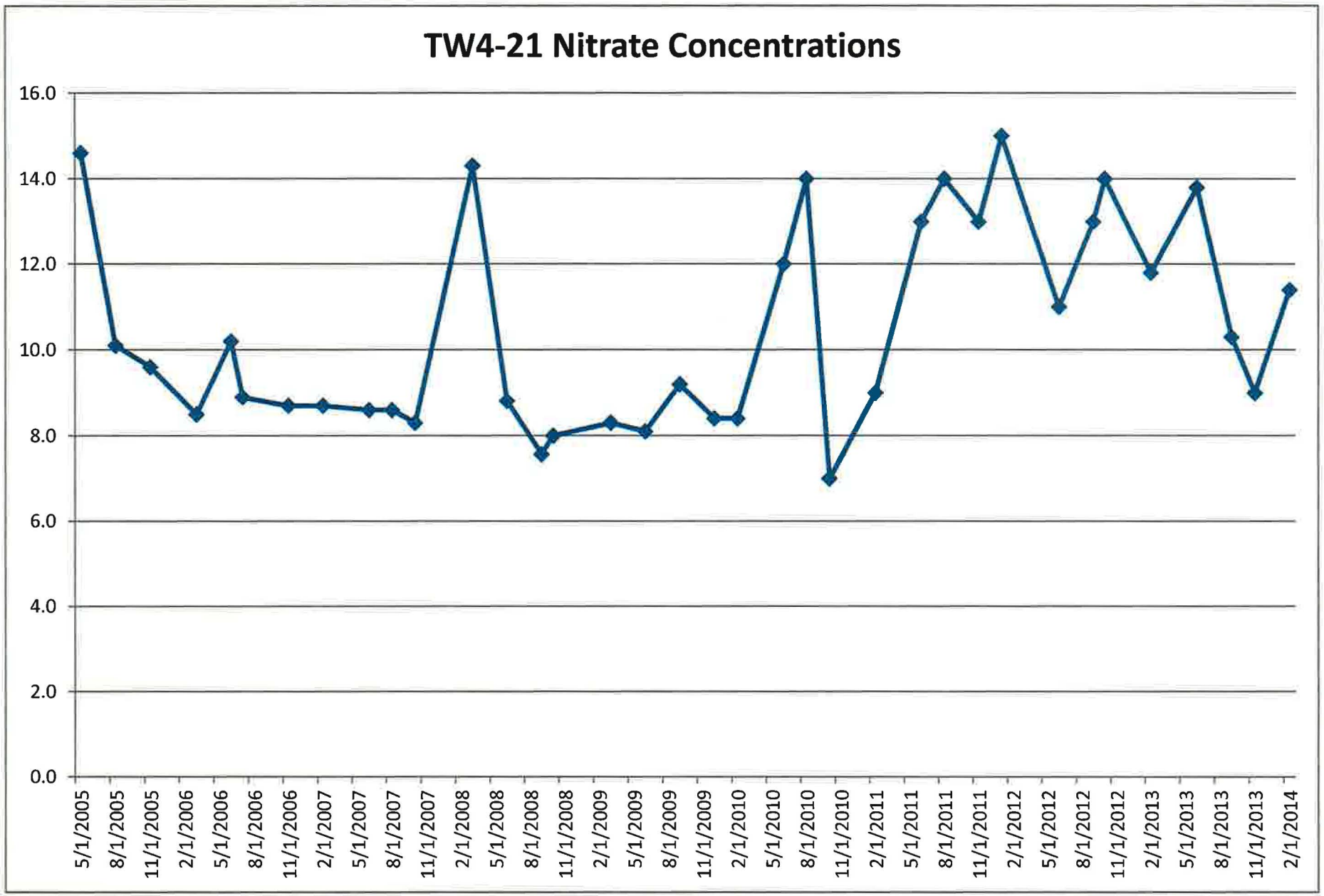


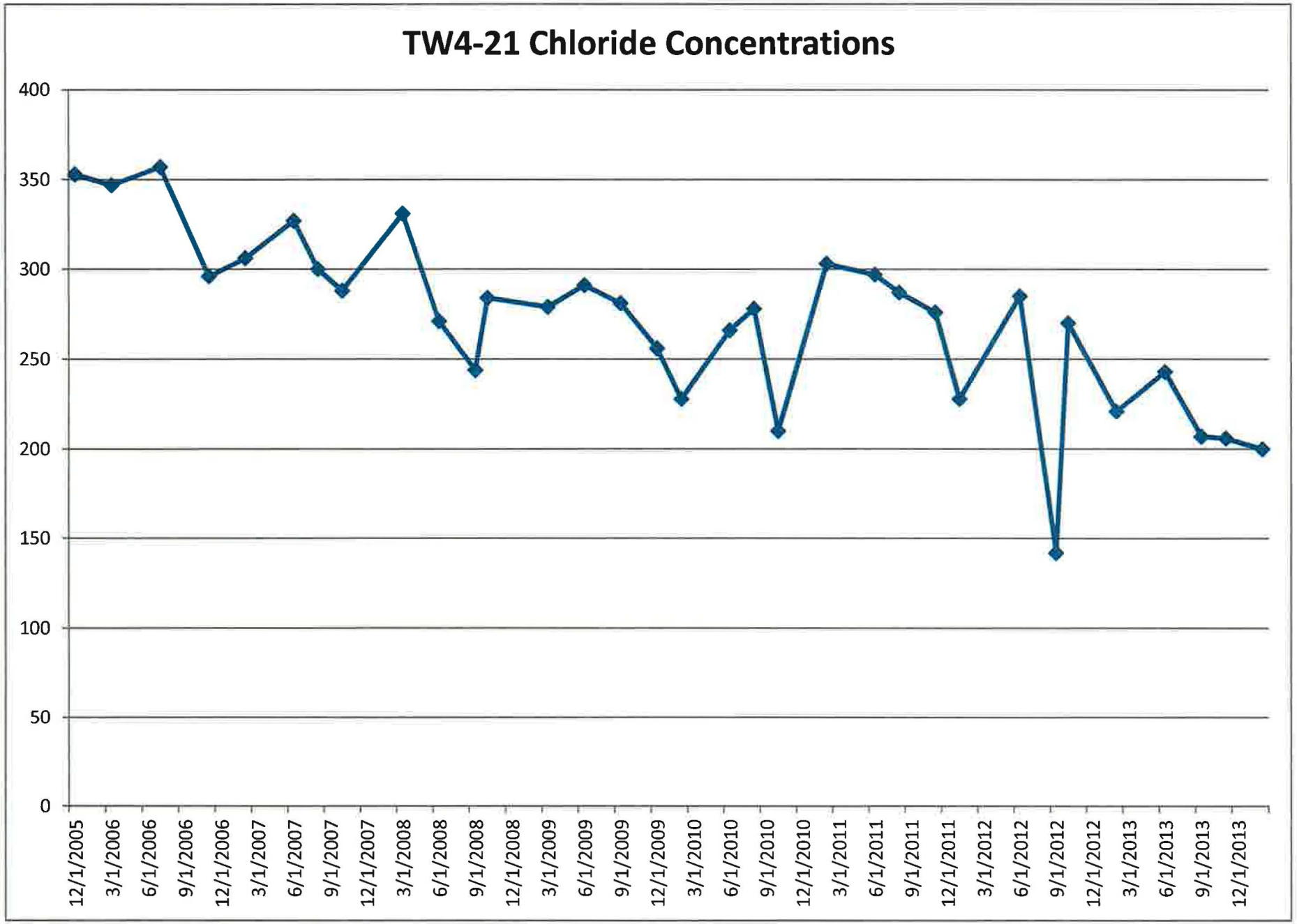
TWN-18 Chloride Concentrations

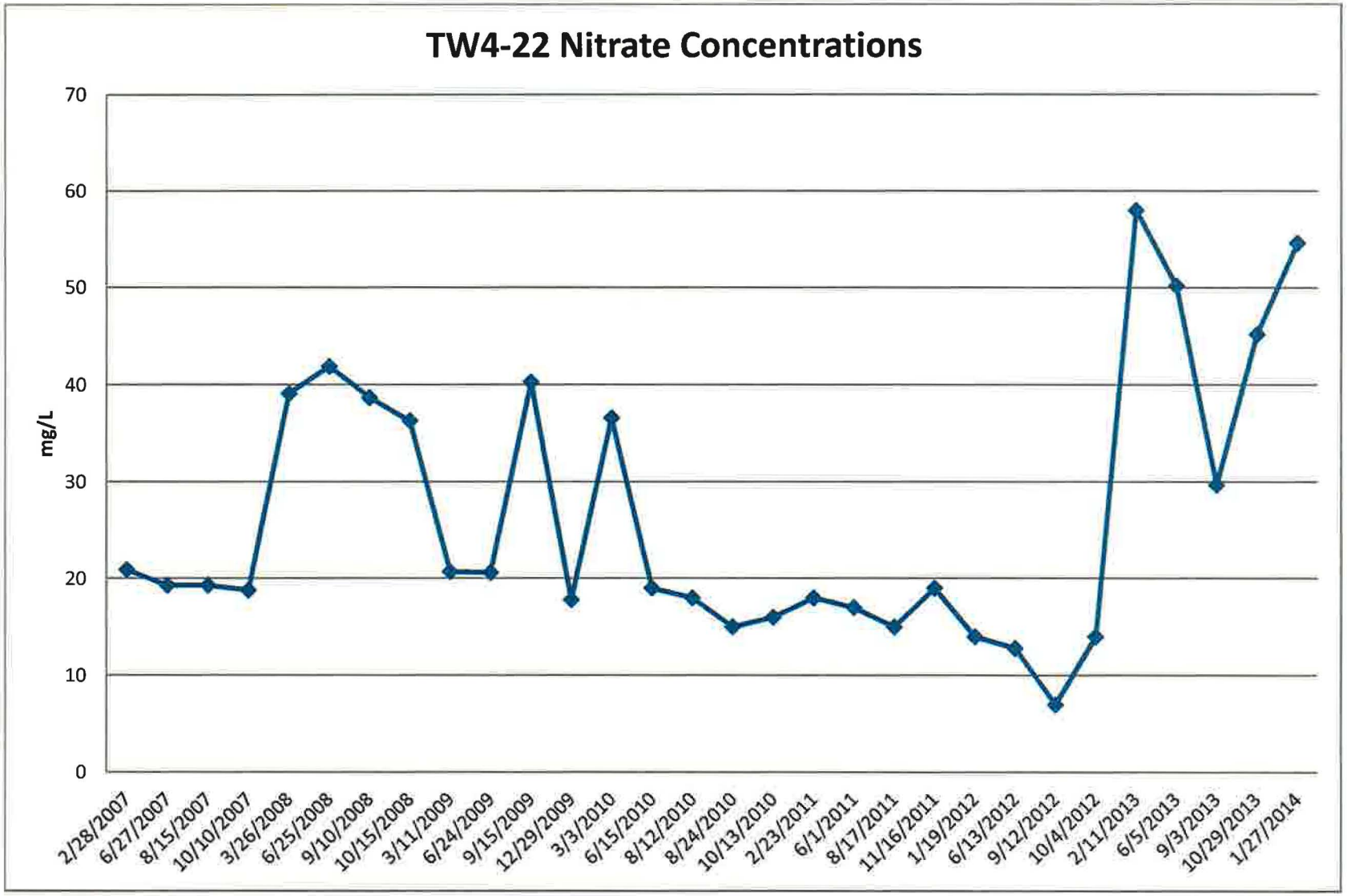


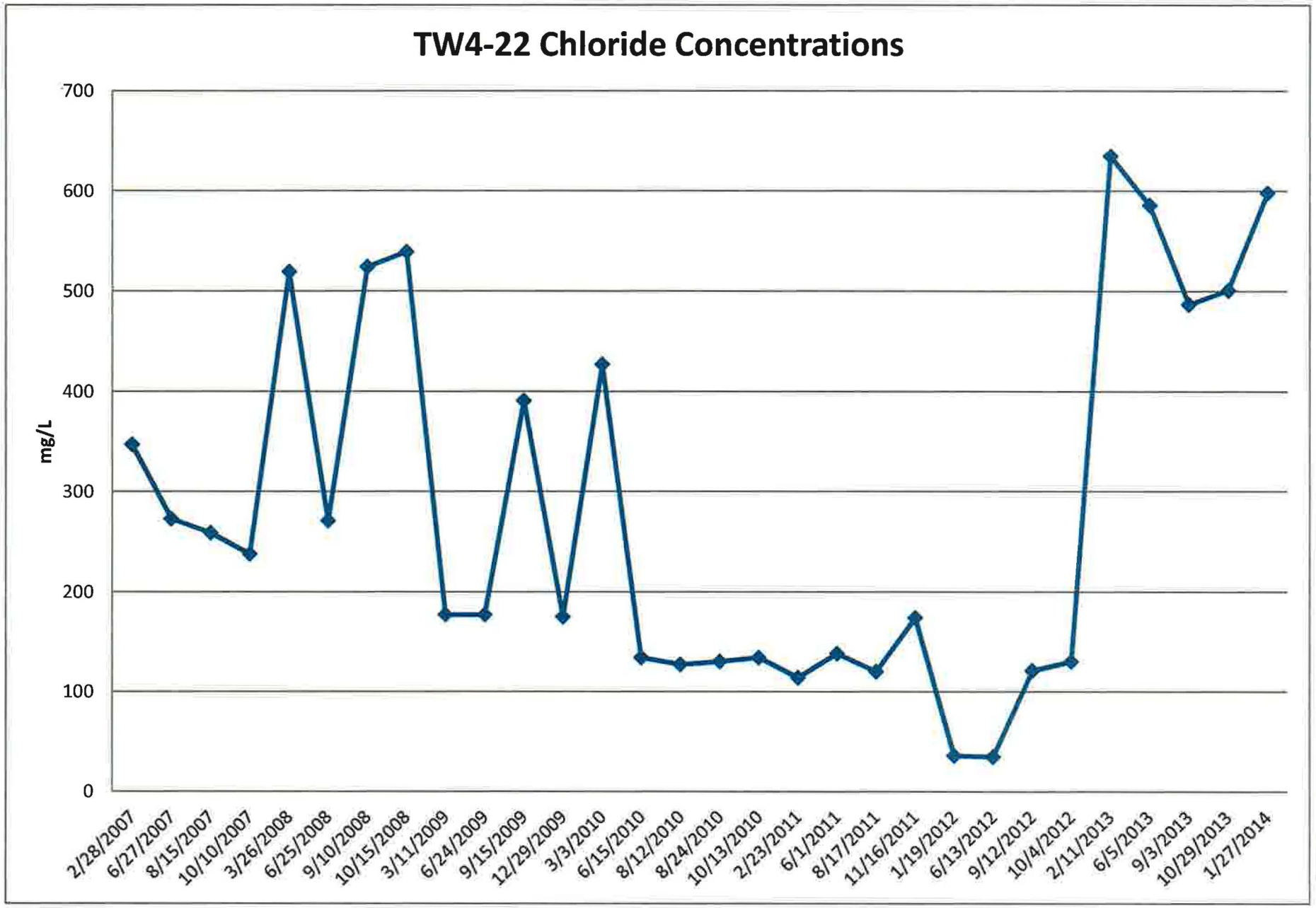

TW4-19 Nitrate Concentrations
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
7/1/2002
11/1/2002
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010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

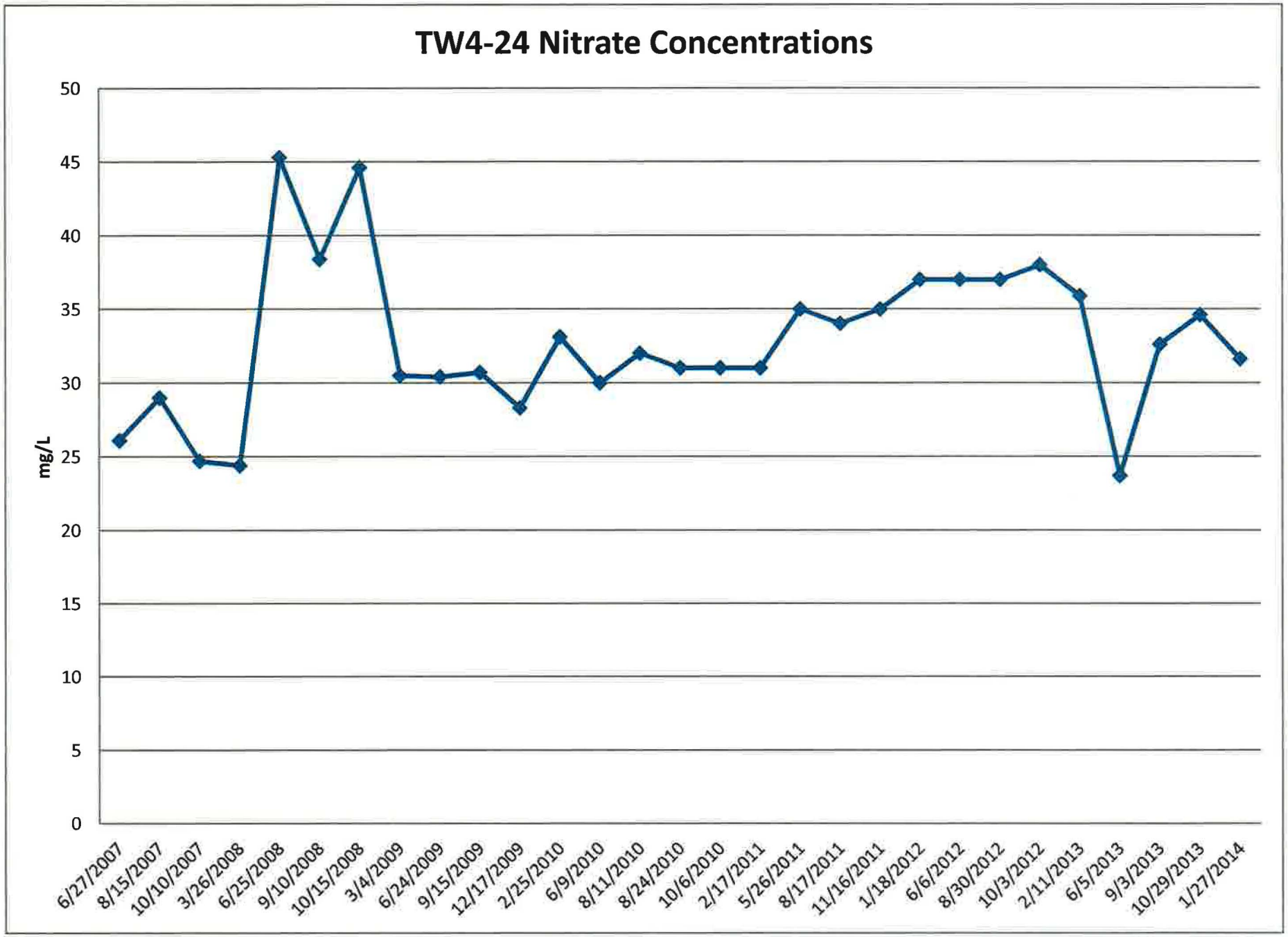

TW4-19 Chloride Concentrations
250
200
150
100
50
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013

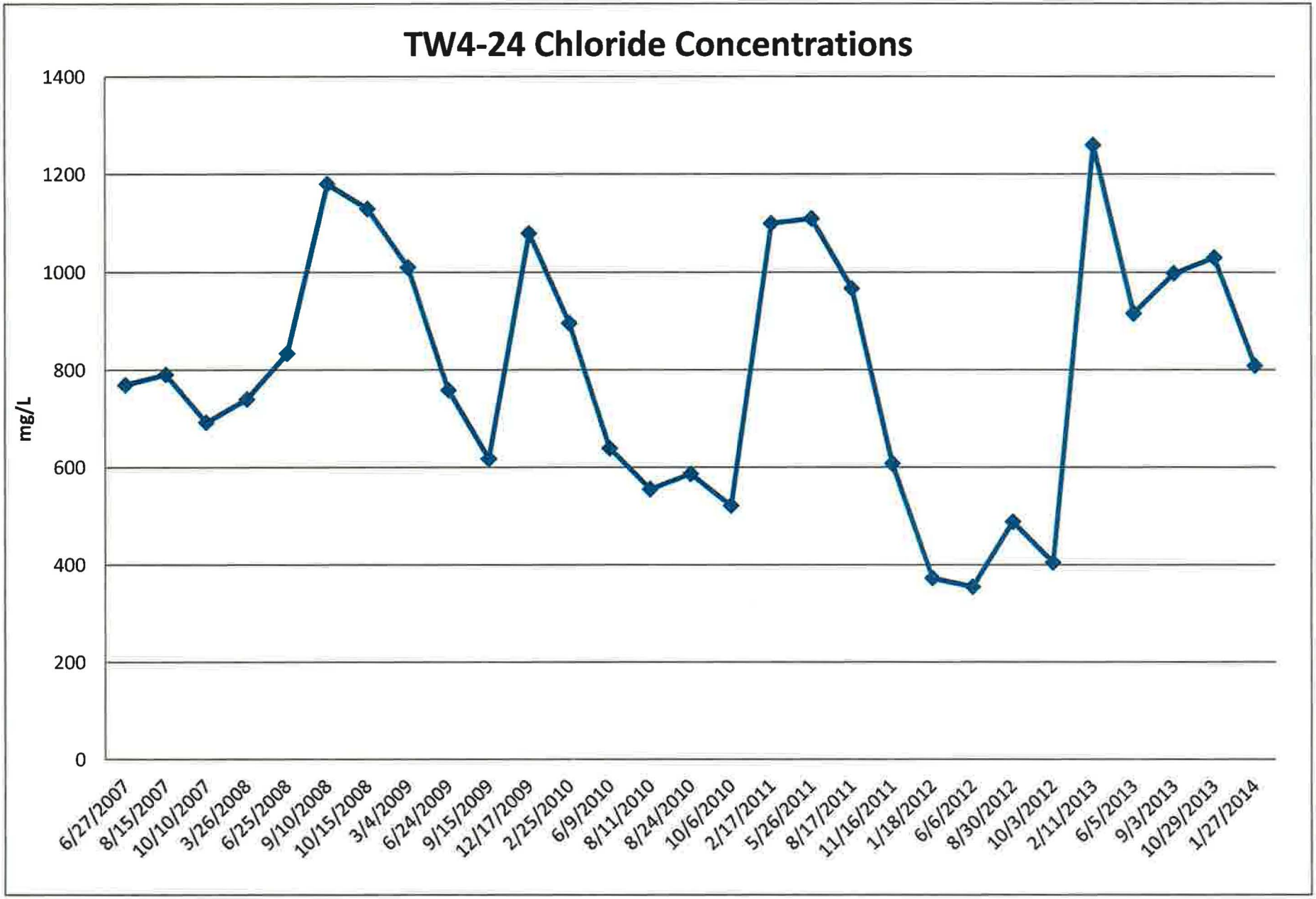

TW4-21 Nitrate Concentrations
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
5/1/2005
8/1/2005
11/1/2005
2/1/2006
5/1/2006
8/1/2006
11/1/2006
2/1/2007
5/1/2007
8/1/2007
11/1/2007
2/1/2008
5/1/2008
8/1/2008
11/1/2008
2/1/2009
5/1/2009
8/1/2009
11/1/2009
2/1/2010
5/1/2010
8/1/2010
11/1/2010
2/1/2011
5/1/2011
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
11/1/2013
2/1/2014

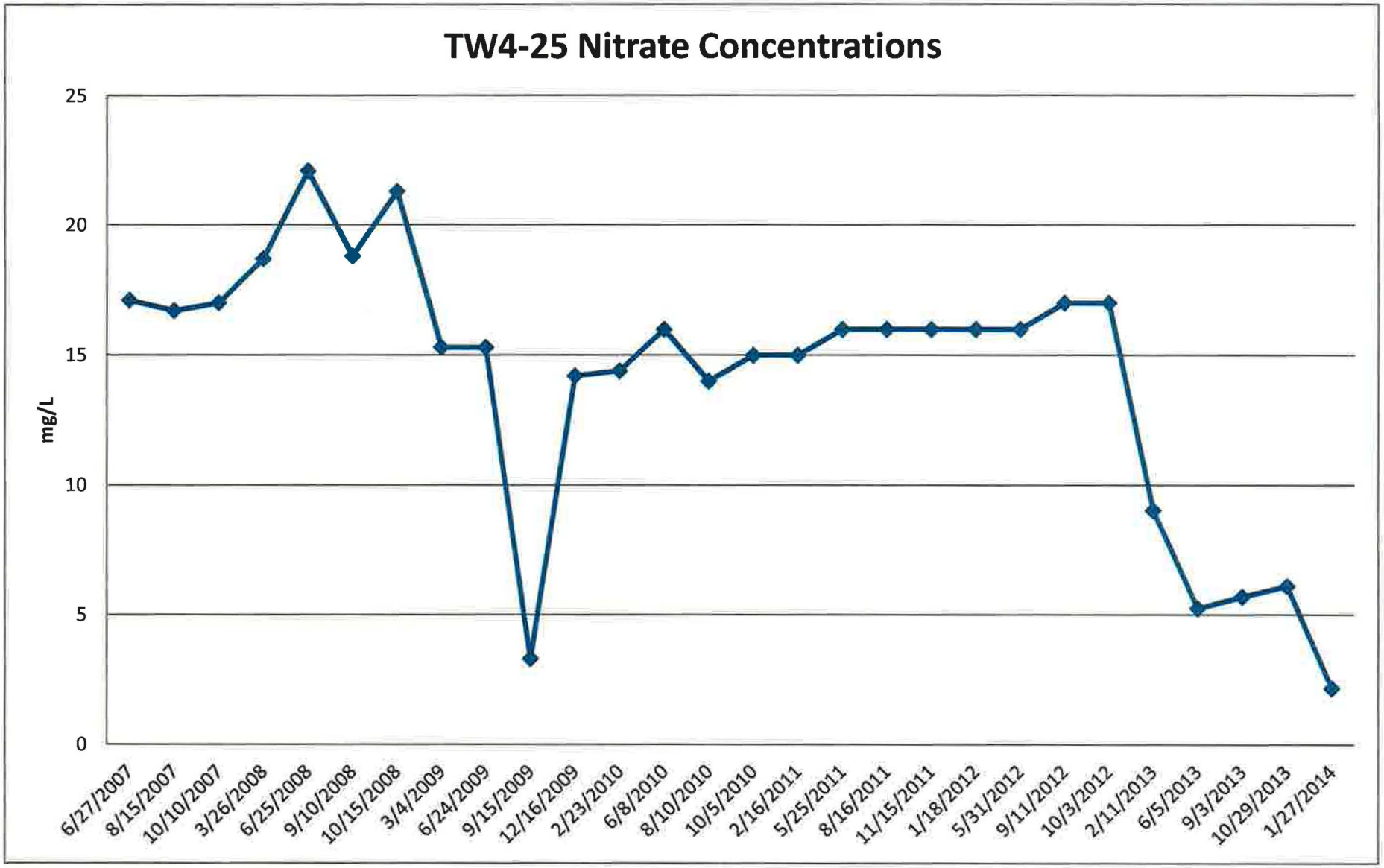

TW4-21 Chloride Concentrations
400
350
300
250
200
150
100
50
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012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

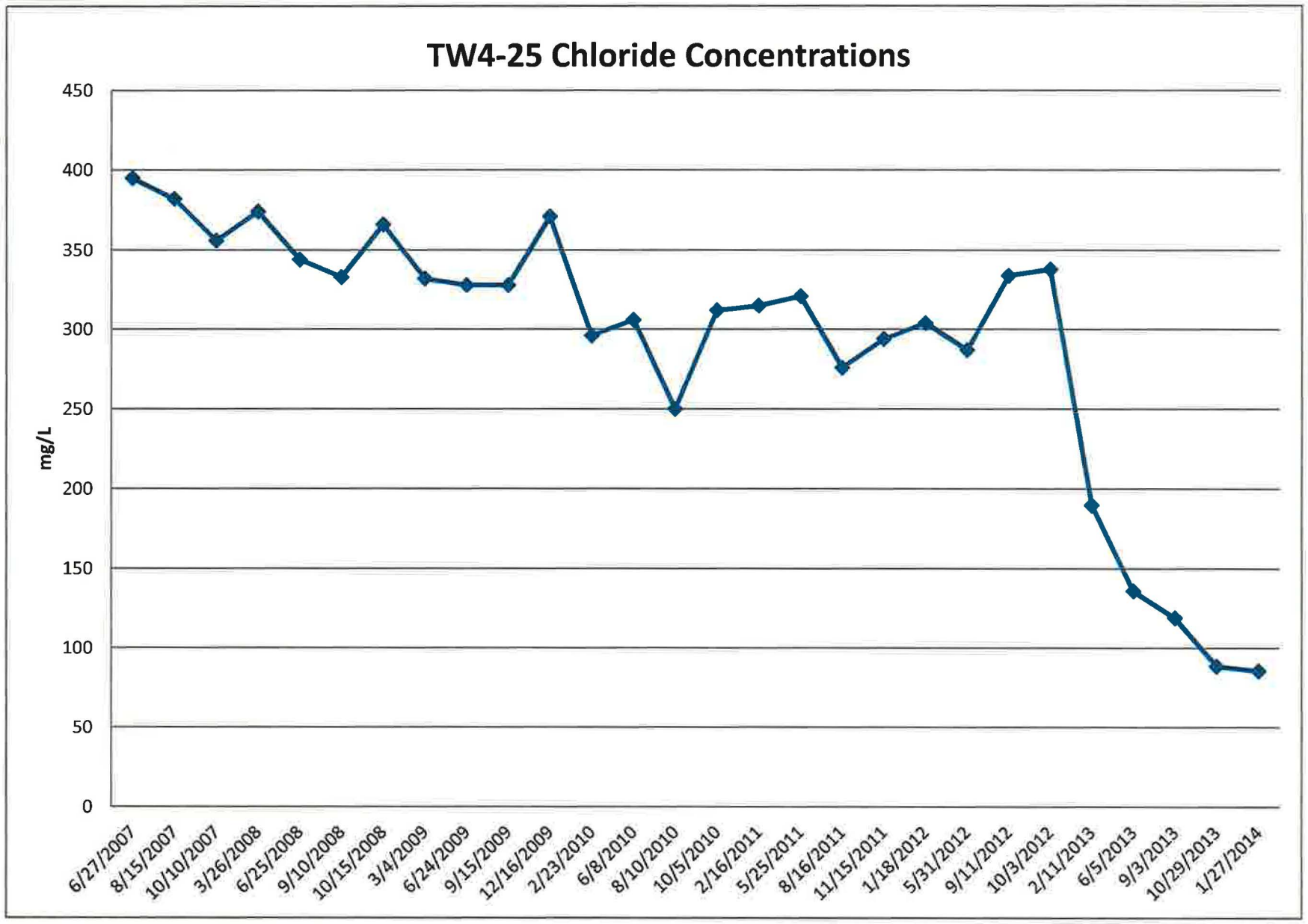

TW4-22 Nitrate Concentrations
mg/L
70
60
50
40
30
20
10
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014

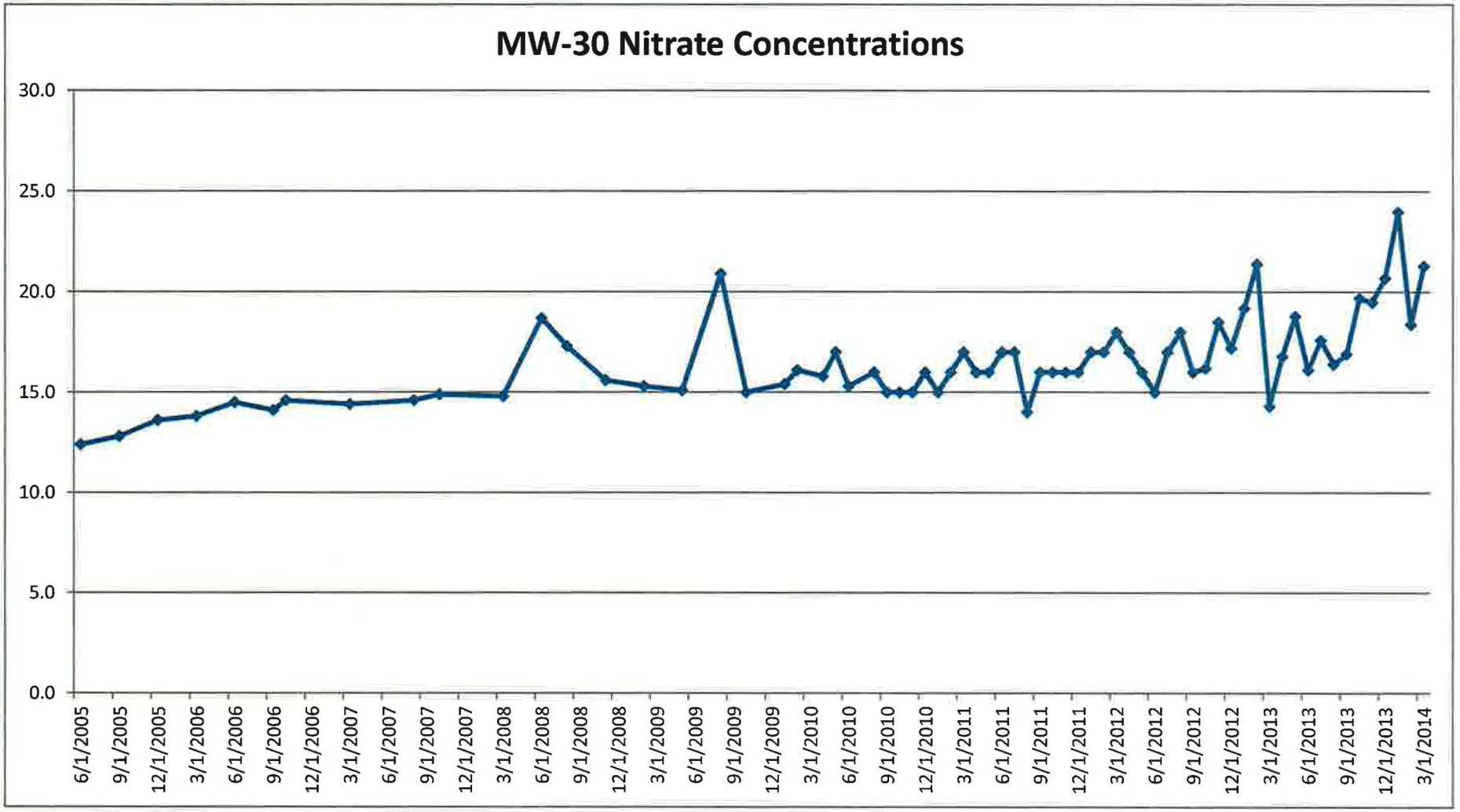

TW4-22 Chloride Concentrations
mg/L
700
600
500
400
300
200
100
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014

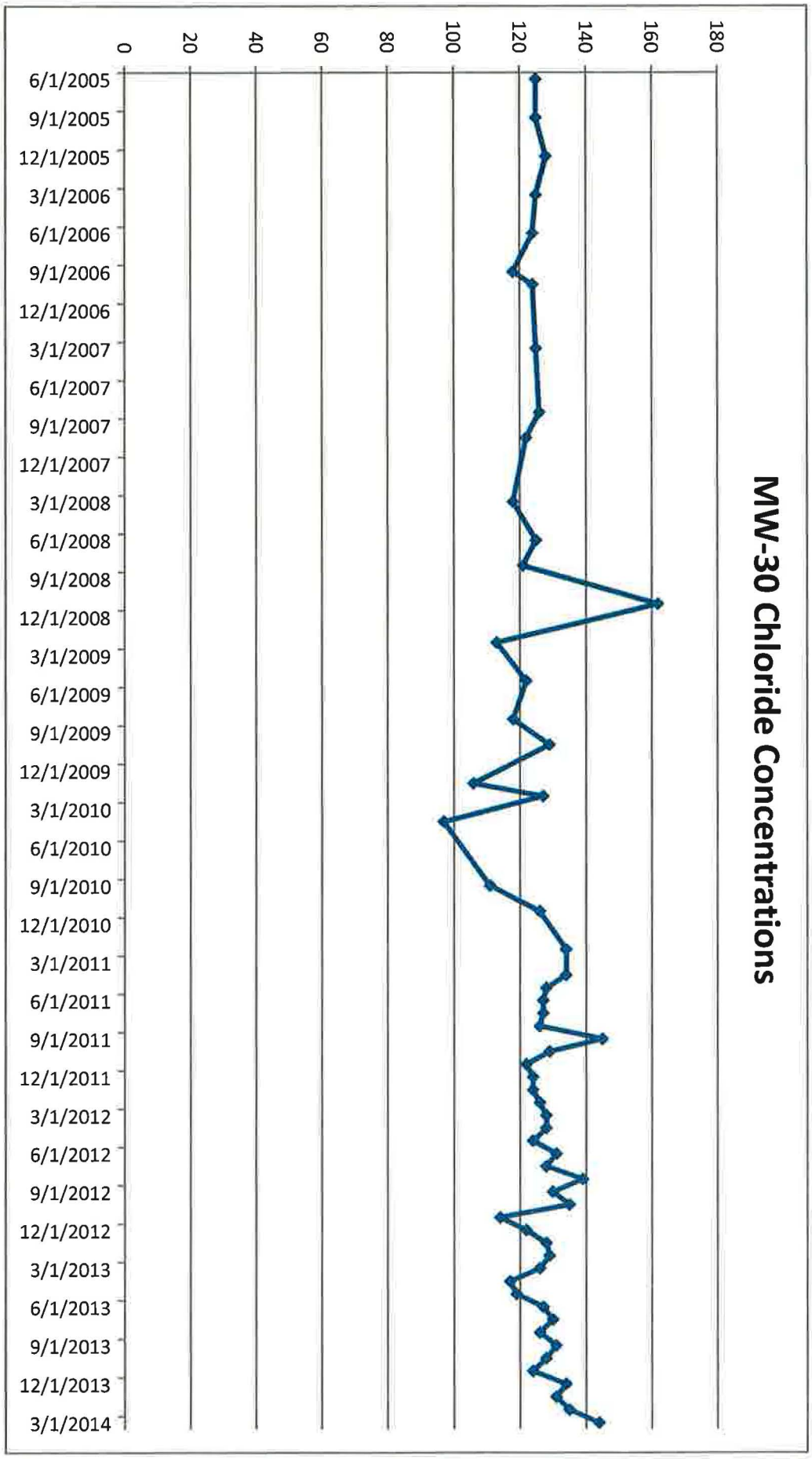

TW4-24 Nitrate Concentrations
mg/L
50
45
40
35
30
25
20
15
10
5
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/17/2009
2/25/2010
6/9/2010
8/11/2010
8/24/2010
10/6/2010
2/17/2011
5/26/2011
8/17/2011
11/16/2011
1/18/2012
6/6/2012
8/30/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014

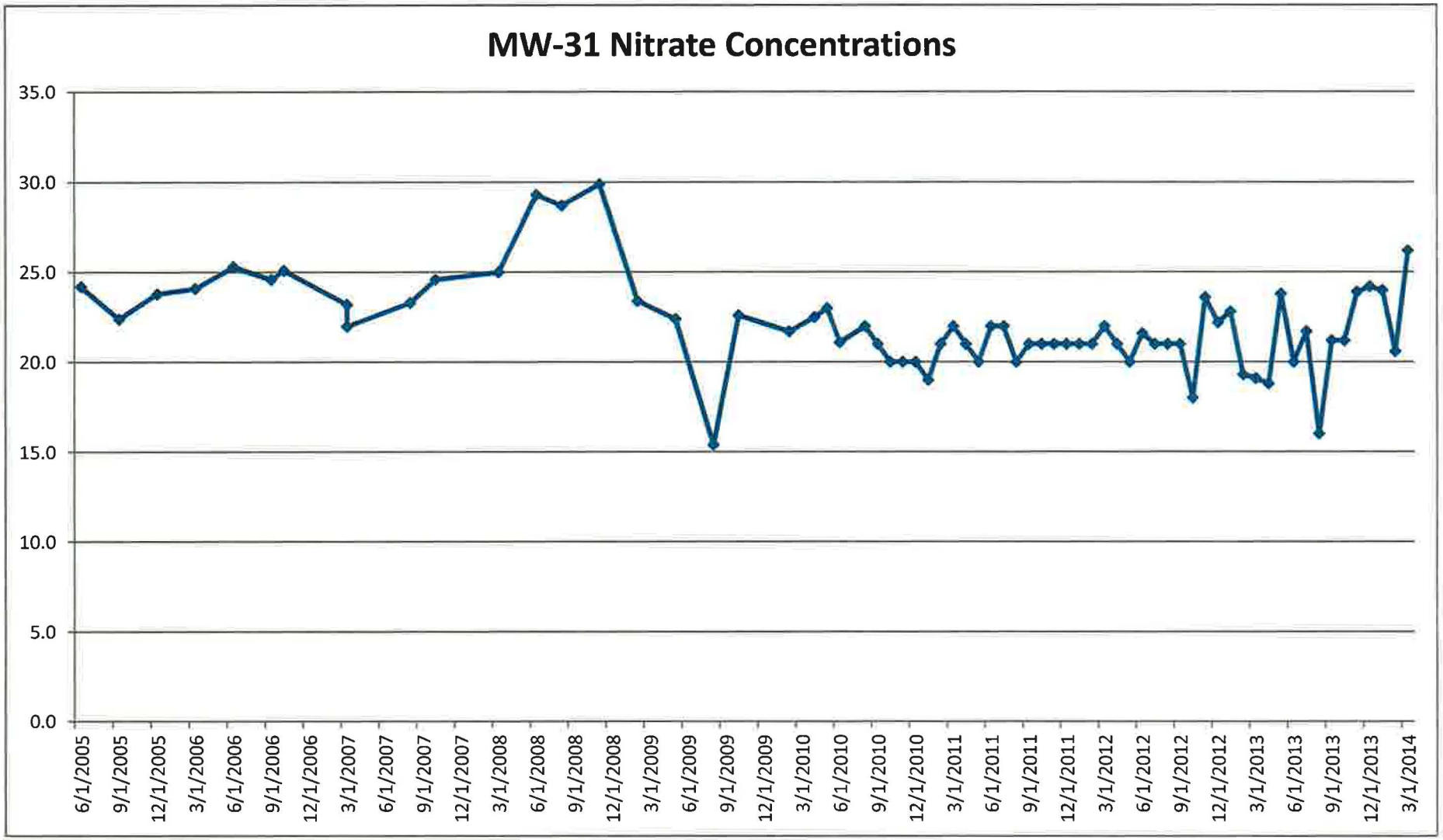

TW4-24 Chloride Concentrations
mg/L
1400
1200
1000
800
600
400
200
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/17/2009
2/25/2010
6/9/2010
8/11/2010
8/24/2010
10/6/2010
2/17/2011
5/26/2011
8/17/2011
11/16/2011
1/18/2012
6/6/2012
8/30/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014

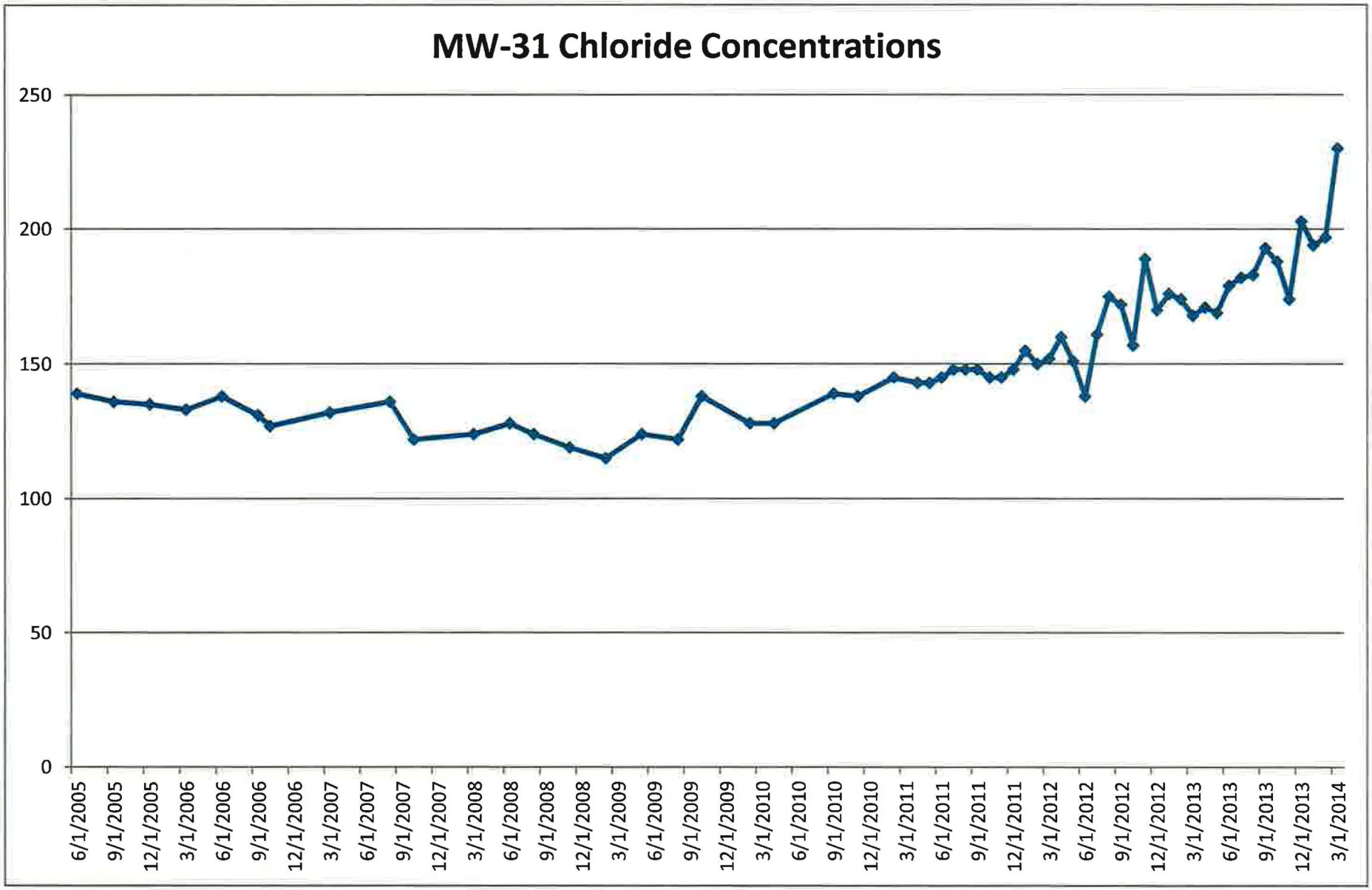

TW4-25 Nitrate Concentrations
mg/L
25
20
15
10
5
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/16/2009
2/23/2010
6/8/2010
8/10/2010
10/5/2010
2/16/2011
5/25/2011
8/16/2011
11/15/2011
1/18/2012
5/31/2012
9/11/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014


TW4-25 Chloride Concentrations
mg/L
450
400
350
300
250
200
150
100
50
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/16/2009
2/23/2010
6/8/2010
8/10/2010
10/5/2010
2/16/2011
5/25/2011
8/16/2011
11/15/2011
1/18/2012
5/31/2012
9/11/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014


MW-30 Nitrate Concentrations
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
12/1/2013
3/1/2014


MW-30 Chloride Concentrations
0
20
40
60
80
100
120
140
160
180
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
12/1/2013
3/1/2014


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
12/1/2013
3/1/2014


MW-31 Chloride Concentrations
250
200
150
100
50
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
12/1/2013
3/1/2014

Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, May 19, 2014 7:45 AM
To: 'Rusty Lundberg'
Cc: 'Phillip Goble'; 'Dean Henderson'; Harold Roberts; Dan Hillsten; Frank Filas, P.E; David Frydenlund; David Turk; Jaime Massey
Subject: Transmittal of CSV Files White Mesa Mill 2014 Q1 Nitrate Monitoring
Attachments: 1401249-EDD.csv

Dear Mr. Lundberg,

Attached to this e-mail is an electronic copy of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the first quarter of 2014, 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