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February 23, 2016

Sent VIA OVERNIGHT DELIVERY

Mr. Scott Anderson
Director
Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84114-4820

Re: Transmittal of 4th Quarter 2015 Nitrate Monitoring Report
Stipulation and Consent Order Docket Number UGW12-04 White Mesa Uranium Mill

Dear Mr. Anderson:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 4th Quarter of 2015 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
Logan Shumway
Harold R. Roberts
David E. Turk
Scott Bakken

White Mesa Uranium Mill

Nitrate Monitoring Report

State of Utah
Stipulated Consent Agreement, December 2014
Docket No. UGW12-04

4th Quarter
(October through December)
2015

Prepared by:

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

February 23, 2016

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ACRONYM LIST

AWAL	American West Analytical Laboratory
CA	Consent Agreement
CAP	Corrective Action Plan
CIR	Contamination Investigation Report
DIFB	Deionized Field Blanks
DWMRC	Utah Division of Waste Management and Radiation Control
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 Compound

1.0 INTRODUCTION

The Utah Department of Environmental Quality ("UDEQ") Division of Waste Management and Radiation Control ("DWMRC") 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, DWMRC 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, the 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 Utah Docket No. UGW12-04 for the third quarter of 2015. 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 fourth quarter of 2015.

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. The CAP and SCO also 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 DWMRC-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-1, TWN-2, TWN-3, TWN-4, TWN-6, TWN-7, 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, TW4-1, TW4-2, TW4-11, TW4-19, TW4-20, TW4-4, TW4-21, TW4-37, 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, 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 DWMRC in 2011. Pursuant to the CA, the CAP was submitted to the Director of the Division Waste Management and 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:

<u>Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)</u>
Wells TWN-01, TWN-04, and TWN-18 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, and redox potential were measured during purging. All field parameters for this requirement were stable within 10% RPD.

<u>Purging a Well to Dryness and Stability of a Limited List of Field Parameters</u>
Wells TWN-03 and TWN-07 were purged to dryness before two casing volumes were evacuated. After well recovery, one set of measurements for the field parameters of pH, specific conductivity, and water temperature only were taken; the samples were collected, and another set of measurements for pH, specific conductivity, and water temperature were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP. All field parameters for this requirement were stable within 10% RPD.

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 DWMRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DWMRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI completed a monitoring well redevelopment program. The redevelopment report was submitted to DWMRC on September 30, 2011. DWMRC responded to the redevelopment report via letter on November 15, 2012. Per the DWMRC 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%.

All duplicate results were within 20% RPD for the quarterly samples. The duplicate results are provided under 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 MS/MSD recoveries that are outside the laboratory established acceptance limits do not affect the quality or usability of the data because recoveries above or below the acceptance limits 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. All 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. Impacts are also expected to occur over time at wells added to the chloroform pumping network during the first quarter of 2015 (TW4-1, TW4-2, TW4-11), and at those added during the second quarter of 2015 (TW4-21 and TW4-37). 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, and TW4-37, which began pumping during the second quarter of 2015. 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. The lack of a well-defined cone of depression near TW4-37 likely results from recent start-up and close proximity to other pumping wells.

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.

Capture associated with nitrate pumping is expected to continue to increase over time as water levels decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Interaction between nitrate and chloroform pumping is expected to enhance the capture of the nitrate pumping system. The long term interaction between the nitrate and chloroform pumping systems is evolving, and changes will be reflected in data 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 relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, and TW4-35 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 a general, long-term increase in water levels in this area that resulted from wildlife pond recharge.

Between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to the start of TW4-4 pumping), water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet, respectively at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the rate of increase in water level at TW4-6 after the start of pumping at TW4-4 (first quarter of 2010) was reduced to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4. The downward trend in water levels at TW4-6 since the fourth quarter of 2013 likely results from both the cessation of water delivery to the northern wildlife ponds and the recent addition of chloroform pumping wells TW4-1, TW4-2, and TW4-11. (note: hydrographs for these wells are provided in the quarterly Chloroform Monitoring Report). Recharge from the

southern wildlife pond is expected to continue to have an effect on water levels near TW4-4 even as the groundwater mound associated with recharge from the northern ponds diminishes over time due to cessation of water delivery to those 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 was measured at approximately 5532.2 feet above mean sea level ("ft amsl"). This is approximately 5 feet lower than the water level at TW4-6 (approximately 5537.4 ft amsl) and 9 feet lower than the water level at TW4-4 (approximately 5541.6 ft amsl) even though TW4-4 is pumping

The static water levels at wells TW4-14 and downgradient well TW4-27 (installed south of TW4-14 in the fourth quarter of 2011) were similar (within 1 to 2 feet) until the third quarter of 2014; both appeared anomalously low. The current quarterly water level at TW4-27 (approximately 5527.9 ft amsl) is 4.3 feet lower than the water level at TW4-14 (5532.2 ft amsl). Recent increases in the differences between water levels at TW4-14 and TW4-27 are due to more rapid increases in water levels at TW4-14 that result from past delivery of water to the northern wildlife ponds. The rate of water level increase at TW4-27 is smaller than at TW4-14 because TW4-27 is farther downgradient of the ponds.

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 had not been 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 (5535.2 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5537.4 feet amsl), and TW4-23 (5538.3 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 suggested that both wells were completed in materials having lower permeability than nearby wells. The low permeability condition likely reduced the rate of long-term water level increase at TW4-14 and TW4-27 compared to nearby wells, yielding water levels that appeared anomalously low. This behavior is consistent with hydraulic test data collected from relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34 and TW4-35, 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; and HGC, July 1, 2014, Installation and Hydraulic Testing of TW4-35 and TW4-36, White Mesa Uranium Mill Near Blanding, Utah [As-Built Report]). Hydraulic tests also indicate that the permeability at TW4-36 is slightly higher than but comparable to the low permeability at

TW4-27, suggesting that TW4-36, TW4-14 and TW4-27 are completed in a continuous low permeability zone.

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 quarter (fourth quarter of 2015) to the water table contour maps for the previous quarter (third quarter of 2015) indicates similar patterns of drawdowns associated with pumping wells. Significant drawdown associated with new chloroform pumping well TW4-37 is not yet evident.

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 evident as of the fourth quarter of 2013. Water levels in all nitrate pumping wells showed decreases (increases in drawdown) ranging from negligible to as much as 3 feet this 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.

Small (<1 foot) changes in water levels were reported at the majority of site wells; water levels and water level contours for the site have not changed significantly since the last quarter except for a few locations. Reported decreases in water levels (increases in drawdown) of approximately 6.3, 8.8, 3.2, 2.4, 3.0, 1.7, and 3.0 feet occurred in chloroform pumping wells TW4-1, TW4-2, TW4-21, and TW4-37, and nitrate pumping wells TW4-22, TW4-24, and TW4-25 respectively. An increase in water level (decrease in drawdown) of approximately 7.8 feet was reported for chloroform pumping well MW-4. The reported water level for TW4-11 is slightly below the depth of the Brushy Basin contact this quarter. Changes in water levels at other pumping wells (chloroform pumping wells TW4-4, TW4-11, and TW4-20, and nitrate pumping well TWN-2) were less than 2 feet. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken. Water level decreases at non-pumping wells TW4-7 and TW4-8 of 6.8 feet and 4.6 feet, respectively, likely result from increased drawdowns at nearby pumping wells TW4-1 and TW4-2.

Although increases in water levels (decreases in drawdown) occurred in some pumping wells and decreases in water levels (increases in drawdown) occurred in others, the overall apparent capture of the combined pumping system has increased compared to last quarter primarily due to increased drawdowns near TW4-1, TW4-2, and TW4-11.

Reported water level decreases of up to 0.7 feet at Piezometers 2, 4, and 5, TWN-1, TWN-4, TWN-6, TWN-18, and MW-19 may 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. Reported water level decreases of approximately 0.7 feet and 0.6 feet at Piezometers 4 and 5, respectively, may result from reduced recharge at the southern wildlife pond.

Reported water levels increased by approximately 2.8 feet at MW-3, and decreased by approximately 3.6 feet, 2.8 feet, and 7.4 feet at MW-20, MW-23, and MW-37, respectively, between the previous quarter and the current quarter. The water level increase at MW-3 compensates for the decrease reported last quarter. Water level variability at these wells is likely the result of low permeability and variable intervals between purging/sampling and water level measurement. Measurable water was again reported at DR-22. This piezometer has typically been dry but on occasion has measurable water reported in the bottom of the casing.

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.

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

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

4.2 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 fourth quarter of 2013 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 perpendicularity between each stream tube and the kriged water level contours.

Compared to last quarter, both increases and decreases in water levels occurred at nitrate and chloroform pumping wells. The water levels in chloroform pumping wells TW4-1, TW4-2, TW4-19, TW4-20, TW4-21, and TW4-37 decreased by approximately 6.3, 8.8, 0.7, 1.4 feet, 3.2, and 2.4 feet respectively, while the water levels in chloroform pumping wells MW-4 and TW4-4 increased by approximately 7.8 and 0.3 feet, respectively. The water levels in nitrate pumping wells TW4-22, TW4-24, and TW4-25 decreased by approximately 3.0, 1.7, and 3.0 feet, respectively, and the water level in nitrate pumping well TWN-2 remained approximately the same. Overall, the apparent capture of the combined pumping systems has expanded compared to last quarter.

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 presented from the fourth quarter of 2013 through the second quarter of 2015 was assumed to represent a steady state 'background' condition that included constant recharge, hydraulic gradients, and saturated thicknesses; the calculation did not account for reduced recharge and saturated thickness caused by cessation of water delivery to the northern wildlife ponds since March, 2012. Because significant water level declines have occurred in upgradient portions of the nitrate plume due to reduced recharge, hydraulic gradients within the plume have been reduced independent of pumping. Changes related to reduced wildlife pond recharge have also resulted in reduced well productivity. Generally reduced productivities of nitrate pumping well TW4-24 and chloroform pumping well TW4-19 since the third quarter of 2014 are at least partly the result of reduced recharge.

The pre-pumping flow through the nitrate plume near TW4-22 and TW4-24 that was presented from the fourth quarter of 2013 through the second quarter of 2015 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 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.

As discussed above the hydraulic gradient and saturated thickness used in the pre-pumping calculations were assumed to represent a steady state 'background' condition that was 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 have declined since nitrate pumping began as a result of two factors: reduced recharge from the ponds, and the effects of nitrate pumping. A more representative 'background' flow condition that accounts for reduced wildlife pond recharge was presented in Attachment N (Tab N) of the third quarter 2015 Nitrate Monitoring report. The original pre-pumping 'background' flow range of 1.31 gpm to 2.79 gpm has been recalculated to range from 0.79 gpm to 1.67 gpm, as presented in Table 9. This calculation is still considered conservative because the high end of the range assumed an arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities.

The cumulative volume of water removed by TW4-22, TW4-24, TW4-25, and TWN-2 during the current quarter was approximately 294,631 gallons. This equates to an average total extraction rate of approximately 2.3 gpm over the 90 day quarter. This average is similar to last quarter's average of approximately 2 gpm and accounts for time periods when pumps were off due to insufficient water columns in the wells. The current quarter's pumping (2.3 gpm) exceeds the high end of the recalculated 'background' flow range by a factor of 1.4.

Because the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities was used to calculate the high end of the 'background' flow range, the high end is considered less representative of actual conditions than using the geometric average conductivity of all of the plume wells. Therefore, nitrate pumping likely exceeds flow through the plume by a factor greater than 1.4 times the high end of the recalculated range. Nitrate pumping is likely adequate at the present time even with reduced productivity at TW4-24.

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 and was detected at a concentration of only 0.12 mg/L at MW-5 this quarter. Between the previous and current quarters, nitrate concentrations decreased in both MW-30 and MW-31. Nitrate in MW-30 decreased from 17.9 mg/L to 16.3 mg/L and nitrate in MW-31 decreased from 19.9 mg/L to 18.4 mg/L. 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 is generally 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

Decreases in nitrate concentrations in TW4-18 from approximately 16 mg/L to 6 mg/L and in TW4-19 from approximately 12 mg/L to 11 mg/L have eliminated the apparent 'spur' in the plume that extended to the east and encompassed TW4-18 last quarter. A similar change occurred during the fourth quarter of 2013.

Changes in nitrate concentrations near TW4-18 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 appeared to be having the anticipated effect of generally increased nitrate concentrations in wells downgradient of the ponds. However, decreasing to relatively stable nitrate concentrations at most wells in the vicinity of TW4-18 between the first quarter of 2014 and the second quarter of 2015 after previous increases suggested that conditions in this area had stabilized.

Although increases in concentration in the area downgradient of the wildlife ponds 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 initiation of nitrate pumping has caused changes in the boundary of the chloroform plume. The boundary of the chloroform plume migrated to the west toward nitrate pumping well TW4-24, and more recently migrated to the southwest to reincorporate chloroform monitoring wells TW4-6 and TW4-16. The start-up of additional chloroform pumping wells during the first half of 2015, and reduced productivity at TW4-24, have apparently caused the chloroform plume to contract eastward away from TW4-24 and from TW4-16 (which was outside the plume in the second quarter of 2015). 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.

4.2.5 Interpretation of Analytical Data

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

a) Nitrate concentrations have increased by more than 20% in the following wells compared to last quarter: TW4-16, TWN-1, TWN-4, TWN-7, and TWN-18;

b) Nitrate concentrations have decreased by more than 20% in the following wells compared to last quarter: MW-26, MW-27, TW4-18, and TW4-20;

c) Nitrate concentrations have remained within 20% in the following wells compared to last quarter: MW-30, MW-31, TW4-5, TW4-19, TW4-21, TW4-22, TW4-24, TW4-25, TWN-2, and TWN-3;

d) MW-11 and MW-32 remained non-detect; and

e) MW-25 decreased from 0.75 mg/L to non-detect .

As indicated, nitrate concentrations for many of the wells with detected nitrate were within 20% of the values reported 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 and TW4-20; and non-pumping wells MW-27, TW4-16, TW4-18, TWN-1, TWN-4, TWN-7, and TWN-18. MW-26, MW-27, TW4-16, TW4-18, TW4-20, TWN-1, TWN-4, TWN-7, and TWN-18 are all outside the nitrate plume. Concentrations at MW-26, TW4-16, TWN-1, TWN-4, TWN-7, and TWN-18 are all less than 2 mg/L.

TWN-1 is located adjacent to chloroform pumping well TW4-21 and nitrate pumping well TW4-25; TWN-4 is located adjacent to nitrate pumping wells TW4-25 and TWN-2; and TWN-7 and TWN-18 are located near nitrate pumping well TWN-2. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1. Concentrations at TWN-4 are expected to be influenced by the adjacent wildlife ponds; concentrations at TWN-7 and TWN-18 are expected to be influenced by their location at the upgradient margin of the nitrate plume; and concentrations at TW4-18 are expected to be influenced by its position immediately downgradient of the northern wildlife ponds.

As discussed in Section 4.2.3, the nitrate concentrations at TW4-18 and TW4-19 decreased this quarter eliminating the apparent eastward-extending 'spur' in the plume boundary that encompassed TW4-18 last quarter. A similar event occurred in the fourth quarter of 2013. The nitrate concentrations in chloroform pumping wells MW-26 and TW4-20 decreased from approximately 1.8 mg/L and 9.3 mg/L, respectively, to approximately 1.1 mg/L and 6.2 mg/L, respectively. The nitrate concentration in chloroform pumping well TW4-21 remained approximately the same. 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, TW4-5, TW4-16, TW4-18, TW4-20, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east.

Nitrate concentrations outside the nitrate plume are greater than 10 mg/L at a few locations: TW4-10 (13.5 mg/L), TW4-12 (18 mg/L),), TW4-26 (13.9 mg/L), TW4-27 (23.5 mg/L), and TW4-28 (18.7 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, TW4-26, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. From the third quarter of 2013 through the second quarter of 2014, nitrate concentrations at TW4-10 and TW4-18 exceeded 10 mg/L, dropped below 10 mg/L in the third quarter of 2014, then increased above 10 mg/L in the fourth quarter of 2014. As discussed above, the concentration at TW4-18 is again below 10 mg/L this quarter. Elevated nitrate concentrations at these wells are associated with the chloroform plume, and both are 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 sampled locations this quarter are within 20% of their respective concentrations during the previous quarter except at TW4-9, TW4-11, TW4-19, TW4-25, and Piez-3. These changes likely result from reduced wildlife pond recharge and changes in pumping.

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 1,568 lb of nitrate has been removed from the perched zone since the third quarter of 2010. Prior to the first quarter of 2013, 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 125 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 125 lb removed during the current quarter, approximately 57 lb, (or 46 %), was removed by the nitrate pumping wells.

The calculated nitrate mass removed was within approximately 5% of last quarter. As discussed in Section 4.3.1, achievable pumping rates are expected to diminish over time as saturated thicknesses are reduced by pumping and by cessation of water delivery to the northern wildlife

ponds. Attachment N (Tab N) of the third quarter 2015 Nitrate Monitoring report provides an evaluation of reduced productivity at chloroform pumping well TW4-19 and nitrate pumping well TW4-24.

Baseline mass and current quarter mass estimates (nitrate + nitrite as N) for the nitrate plume are approximately 43,700 lb and 30,980 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 approximately 12,720 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 (30,980 lb) was smaller than the mass estimate during the previous quarter (34,880 lb) by 3,900 lb or 11 %. This difference results primarily from the decreased plume area resulting from the elimination of the apparent eastward extending 'spur' that encompassed TW4-18 last quarter.

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 are collected (starting with the first quarter of 2013), a regression trend line is to be applied to the quarterly mass estimates and evaluated. The trend line is then to 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.

As the fourth quarter of 2014 constituted the eighth quarter as specified in the CAP, the mass estimates were plotted, and a regression line was fitted to the data and evaluated. The regression line was updated this quarter as shown in Figure M.1 of Tab M. The fitted line shows a decreasing trend in the mass estimates.

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. In anticipation of the final approval of the GCAP, beginning on January 14, 2015, EFRI began long term pumping of TW4-1, TW4-2, and TW4-11 and began long term pumping of TW4-21 and TW4-37 on June 9, 2015. 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, TW4-20, TW4-01, TW4-02, TW4-11, TW4-21, and TW4-37 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,
- Measurement of water levels weekly at TW4-22, TW4-24, TW4-25, and TWN-02 commencing January 28, 2013,
- Measurement of water levels weekly at TW4-01, TW4-02, and TW4-11 commencing on January 14, 2015,
- Measurement of water levels weekly at TW4-21 and TW4-37 commencing on June 9, 2015, and on a monthly basis selected temporary wells and permanent monitoring wells.
- 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

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, TWN-02, TW4-01, TW4-02, TW4-11, TW4-21, and TW4-37 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, 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.

Specific operational problems observed with the well or pumping equipment which occurred during the quarter are noted for each well below in Sections 5.4.1 through 5.4.4.

Unless specifically noted below, no operational problems were observed with the well or pumping equipment during the quarter.

5.4.1 MW-4

On November 30, 2015, Mill Field Personnel noted during the routine weekly inspection that the timer on MW-4 lost memory and the timer settings were erased. The well continued to pump and no loss of data were noted. The display batteries were changed and the timer was reset. No official notifications to DWMRC were required as the issue was rectified within 24-hours and there was no loss of pumping.

The timer issue noted above was the result of battery failure in the display module. The pump continued to operate as programed, however, the display was incorrect. Pumping continued uninterrupted.

5.4.2 TWN-02

On December 22, 2015, Mill Field Personnel replaced the heat lamp in the TWN-02 enclosure.

The heat lamp replacement noted above did not result in any adverse issues. Pumping continued uninterrupted.

6.0 CORRECTIVE ACTION REPORT

There are no corrective actions required during the current monitoring period.

6.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions required during the previous quarters' monitoring period.

7.0 CONCLUSIONS AND RECOMMENDATIONS

As per the CAP, the current quarter is the ninth quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. The apparent combined capture of the nitrate and chloroform pumping systems has increased this quarter compared to last quarter, primarily attributable to start-up of chloroform pumping wells TW4-1, TW4-2, and TW4-11 during the first quarter of 2015 and TW4-21 and TW4-37 during the second quarter of 2015. Capture associated with nitrate pumping wells continues to develop 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.

Nitrate pumping is likely sufficient to eventually capture the entire nitrate plume upgradient of TW4-22 and TW4-24 even with reduced productivity at TW4-24. Hydraulic gradients and saturated thicknesses within the plume have declined since nitrate pumping began as a result of two factors: reduced recharge from the ponds, and the effects of nitrate pumping. A more representative 'background' flow condition that accounts for reduced wildlife pond recharge was presented in Attachment N (Tab N) of the third quarter, 2015 Nitrate Monitoring report. The original pre-pumping 'background' flow range of 1.31 gpm to 2.79 gpm was recalculated to range from 0.79 gpm to 1.67 gpm. This calculation is still considered conservative because the high end of the calculated range assumed an arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities. The current nitrate pumping of

approximately 2.3 gpm exceeds the high end of the recalculated 'background' range by a factor of 1.4.

In addition, because the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities was used in recalculating the high end of the 'background' flow range, the high end is considered less representative of actual conditions than using the geometric average conductivity of all of the plume wells. Therefore, nitrate pumping likely exceeds flow through the plume by a factor greater than 1.4 times the high end of the recalculated range. Nitrate pumping is likely adequate at the present time even with reduced productivity at TW4-24. Furthermore, as the groundwater mound associated with former water delivery to the northern wildlife ponds continues to decay, hydraulic gradients and saturated thicknesses will continue to decrease, and 'background' flow will be proportionally reduced, thereby reducing the amount of pumping needed.

First quarter, 2015 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 chloroform pumping wells MW-26 and TW4-20; and non-pumping wells MW-27, TW4-16, TW4-18, TWN-1, TWN-4, TWN-7, and TWN-18. MW-26, MW-27, TW4-16, TW4-18, TW4-20, TWN-1, TWN-4, TWN-7, and TWN-18 are all outside the nitrate plume. Concentrations at MW-26, TW4-16, TWN-1, TWN-4, TWN-7, and TWN-18 are all less than 2 mg/L.

TWN-1 is located adjacent to chloroform pumping well TW4-21 and nitrate pumping well TW4-25; TWN-4 is located adjacent to nitrate pumping wells TW4-25 and TWN-2; and TWN-7 and TWN-18 are located near nitrate pumping well TWN-2. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1. Concentrations at TWN-4 are expected to be influenced by the adjacent wildlife ponds; concentrations at TWN-7 and TWN-18 are expected to be influenced by their location at the upgradient margin of the nitrate plume; and concentrations at TW4-18 are expected to be influenced by its position immediately downgradient of the northern wildlife ponds. The concentrations in wells MW-11 and MW-32 remained non-detect; and the concentration in MW-25 decreased from 0.75 mg/L to non-detect.

As discussed in Section 4.2.3, the nitrate concentrations at TW4-18 and TW4-19 decreased this quarter eliminating the apparent eastward-extending 'spur' in the plume boundary that encompassed TW4-18 last quarter. A similar event occurred in the fourth quarter of 2013. The nitrate concentrations in chloroform pumping wells MW-26 and TW4-20 decreased from approximately 1.8 mg/L and 9.3 mg/L, respectively, to approximately 1.1 mg/L and 6.2 mg/L, respectively. The nitrate concentration in chloroform pumping well TW4-21 remained approximately the same. 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, TW4-5, TW4-16, TW4-18, TW4-20, TW4-25, TWN-1, and TWN-4 bound the nitrate plume to the east.

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. Nitrate in MW-30 decreased from 17.9 mg/L to 16.3 mg/L and nitrate in MW-31 decreased from 19.9 mg/L to 18.4 mg/L. 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 is generally increasing at MW-31. The apparent increase in chloride and relatively 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. Increases in chloride at MW-30 are also expected to eventually occur as the nitrate/chloride plume continues to move downgradient,

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. Longer-term analyses of the mass estimates that minimize the impact of these quarter to quarter variations are expected to 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 are collected (starting with the first quarter of 2013), a regression trend line is to be applied to the quarterly mass estimates and evaluated. The trend line is then to be updated quarterly and reevaluated as additional quarters of data are collected. As the fourth quarter of 2014 constituted the eighth quarter as specified in the CAP, the mass estimates were plotted, and a regression line was fitted to the data and evaluated. The regression line was updated this quarter as shown in Figure M.1 of Tab M. The fitted line shows a decreasing trend in the mass estimates.

During the current quarter, a total of approximately 125 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 125 lb removed during the current quarter, approximately 57 lb, (or 46 %), 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 mass estimate during the current quarter was calculated as 30,980 lb which was smaller than the mass estimate during the previous quarter (34,880 lb) by 3,900 lb or 11 %. This difference results primarily from the decreased plume area resulting from elimination ot the eastward extending 'spur' that encompassed TW4-18 last quarter.

Nitrate concentrations outside the nitrate plume are greater than 10 mg/L at a few locations: TW4-10 (13.5 mg/L), TW4-12 (18 mg/L),), TW4-26 (13.9 mg/L), TW4-27 (23.5 mg/L), and TW4-28 (18.7 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, TW4-26, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. From the third quarter of 2013 through the second quarter of 2014, nitrate concentrations at TW4-10 and TW4-18 exceeded 10 mg/L, dropped below 10 mg/L in the third quarter of 2014, then increased above 10 mg/L in the fourth quarter of 2014. As discussed above, the concentration at TW4-18 is again below 10 mg/L this quarter. Elevated nitrate concentrations at these wells are associated with the chloroform plume, and both are 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 (for example TW4-18) were anticipated as a result of reduced dilution caused by cessation of water delivery to the northern wildlife ponds. However, decreasing nitrate concentrations at most wells in the vicinity of TW4-18 from the first through third quarters of 2014 after a previously increasing trend (interrupted in the first quarter of 2014) suggested that conditions in this area had stabilized. The increase in concentration at TW4-18 last quarter indicates that reduced wildlife pond recharge is still impacting concentrations in downgradient wells.

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 was 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 was also expected to result in temporarily higher concentrations 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.

Nitrate mass removal from the perched zone was 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.

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 February 23, 2016.

Energy Fuels Resources (USA) Inc.

By:

Scott Bakken
Senior Director Regulatory 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.

Scott Bakken
Senior Director Regulatory Affairs
Energy Fuels Resources (USA) Inc.

Tables

Table 1
Summary of Well Sampling and Constituents for the Period

Well	Sample Collection Date	Date of Lab Report
Piezometer 01	10/14/2015	10/30/2015
Piezometer 02	10/14/2015	10/30/2015
Piezometer 03	10/14/2015	10/30/2015
TWN-01	10/13/2015	10/30/2015
TWN-02	10/14/2015	10/30/2015
TWN-03	10/14/2015	10/30/2015
TWN-04	10/13/2015	10/30/2015
TWN-07	10/14/2015	10/30/2015
TWN-07R	10/13/2015	10/30/2015
TWN-18	10/13/2015	10/30/2015
TW4-22	10/19/2015	11/6/2015
TW4-24	10/19/2015	11/6/2015
TW4-25	10/21/2015	11/6/2015
TWN-60	10/15/2015	10/30/2015
TW4-60	10/29/2015	11/19/2015
TWN-65	10/13/2015	10/30/2015

Note: All wells were sampled for Nitrate and Chloride.

TWN-60 is a DI Field Blank.

TWN-65 is a duplicate of TWN-18.

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.)	TW4-01 (lbs.)	TW4-02 (lbs.)	TW4-11 (lbs.)	TW4-21 (lbs.)	TW4-37 (lbs.)	Quarter Totals (lbs.)
Q3 2010	3.2	0.3	5.8	1.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	3.8	0.4	17.3	1.4	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	2.9	0.2	64.5	1.4	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	3.5	0.1	15.9	2.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	3.5	0.5	3.5	3.9	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	3.8	0.8	6.2	2.5	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	3.6	0.4	0.7	5.0	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	3.7	0.6	3.4	2.1	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	3.8	0.5	3.6	2.0	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	3.2	0.4	5.4	1.8	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	2.5	0.4	14.1	1.4	3.6	8.1	43.4	7.5	14.8	NA	NA	NA	NA	NA	95.73
Q2 2013	2.5	0.4	5.6	1.6	3.4	10.7	37.1	6.4	23.9	NA	NA	NA	NA	NA	91.71
Q3 2013	3.0	0.4	48.4	1.4	3.8	6.3	72.8	6.9	33.4	NA	NA	NA	NA	NA	176.53
Q4 2013	3.1	0.3	15.8	1.6	3.9	9.4	75.2	6.4	46.3	NA	NA	NA	NA	NA	162.07
Q1 2014	2.7	0.4	4.1	1.2	3.6	11.2	60.4	2.3	17.2	NA	NA	NA	NA	NA	103.14
Q2 2014	2.4	0.3	3.3	0.9	3.0	9.5	63.4	1.3	17.8	NA	NA	NA	NA	NA	101.87
Q3 2014	2.3	0.1	4.1	0.6	3.1	8.5	56.2	1.6	16.4	NA	NA	NA	NA	NA	92.99
Q4 2014	2.7	0.2	7.8	1.0	3.8	11.0	53.2	0.9	28.0	NA	NA	NA	NA	NA	108.57
Q1 2015	3.7	0.5	4.3	1.3	2.4	12.7	26.7	8.6	19.2	1.45	1.07	0.72	NA	NA	82.61
Q2 2015	1.3	0.2	0.6	0.9	3.6	9.1	16.6	0.9	21.4	1.22	0.79	0.37	3.4	8.6	68.86
Q3 2015	3.6	0.3	11.3	1.4	3.5	13.3	14.0	1.7	20.2	1.24	0.68	0.29	15.4	31.9	118.63
Q4 2015	3.7	0.18	9.97	0.81	3.10	11.07	26.63	1.73	17.52	0.27	0.94	0.26	16.08	32.26	124.50
Well Totals (pounds)	**68.47**	**8.10**	**255.73**	**38.77**	**91.44**	**120.93**	**545.57**	**46.27**	**276.02**	**4.17**	**3.48**	**1.64**	**34.81**	**72.76**	**1568.16**

Table 3 Well Pumping Rates and Volumes

Pumping Well Name	Volume of Water Pumped	Average Pump Rate (gpm)
MW-4	99,633.4	4.5
MW-26	19,355.6	8.1
TW4-4	59,235.1	10.8
TW4-19	112,762.7	17.8
TW4-20	15,547.4	7.8
TW4-22	23,657.6	17.0
TW4-24	107,799.1	16.2
TW4-25	116,420.1	15.3
TWN-2	46,754.1	18.4
TW4-01	20,764.3	15.9
TW4-02	21,769.8	16.4
TW4-11	4,110.3	16.1
TW4-21	134,774.9	16.2
TW4-37	111,737.5	16.3

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	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	4.80	4800	302266.7	1450880129	1450.9	3.20	63850.0	0.60	600	241672.3	145003350	145	0.32
Q4 2010	90042.2	5.00	5000	340809.7	1704048635	1704.0	3.76	60180.0	0.70	700	227781.3	159446910	159	0.35
Q1 2011	76247.6	4.60	4600	288597.2	1327546964	1327.5	2.93	55130.0	0.50	500	208667.1	104333525	104	0.23
Q2 2011	85849.3	4.90	4900	324939.6	1592204042	1592.2	3.51	55800.6	0.30	300	211205.3	63361581	63	0.14
Q3 2011	85327.7	4.90	4900	322965.3	1582530188	1582.5	3.49	65618.0	0.90	900	248364.1	223527717	224	0.49
Q4 2011	89735.0	5.10	5100	339647.0	1732199573	1732.2	3.82	50191.3	2.00	2000	189974.1	379948141	380	0.84
Q1 2012	90376.4	4.80	4800	342074.7	1641958435	1642.0	3.62	31440.1	1.70	1700	119000.8	202301323	202	0.45
Q2 2012	90916.5	4.90	4900	344118.8	1686181940	1686.2	3.72	26701.2	2.50	2500	101064.1	252660294	253	0.56
Q3 2012	91607.0	5.00	5000	346732.5	1733662475	1733.7	3.82	25246.0	2.60	2600	95556.1	248445886	248	0.55
Q4 2012	78840.0	4.80	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
Q1 2014	69833.8	4.70	4700	264320.9	1242308385	1242.3	2.74	23263.1	2.12	2120	88050.8	186667767	187	0.41
Q2 2014	71934.9	4.08	4080	272273.6	1110876274	1110.9	2.45	23757.5	1.42	1420	89922.1	127689435	128	0.28
Q3 2014	74788.2	3.70	3700	283073.3	1047371347	1047.4	2.31	24062.4	0.70	700	91076.2	63753329	64	0.14
Q4 2014	63093.0	5.07	5070	238807.0	1210751515	1210.8	2.67	21875.8	0.93	934	82799.9	77335109	77	0.17
Q1 2015	76454.3	5.75	5750	289379.5	1663932272	1663.9	3.67	24004.9	2.68	2680	90858.5	243500905	244	0.54
Q2 2015	60714.7	2.53	2530	229805.1	581407002.9	581.4	1.28	27804.6	0.85	845	105240.4	88928147	89	0.20
Q3 2015	89520.8	4.79	4790	338836.2	1623025532	1623.0	3.58	21042.0	1.75	1750	79644.0	139376948	139	0.31
Q4 2015	99633.4	4.43	4430	377112.4	1670608016	1670.6	3.68	19355.6	1.11	1110	73260.9	81319650	81	0.18
Totals Since Q3 2010	1742144.05						68.47	748084.8						8.10

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	5.90	5900	442463.5	2.611E+09	2611	5.76	39098.3	5.30	5300	147987.1	784331447	784	1.73
Q4 2010	767970.5	2.70	2700	2906768.3	7.848E+09	7848	17.30	36752.5	4.60	4600	139108.2	639897778	640	1.41
Q1 2011	454607.9	17.00	17000	1720690.9	2.925E+10	29252	64.49	37187.5	4.40	4400	140754.7	619320625	619	1.37
Q2 2011	159238.9	12.00	12000	602719.2	7.233E+09	7233	15.95	67907.7	4.80	4800	257030.6	1.234E+09	1234	2.72
Q3 2011	141542.6	3.00	3000	535738.7	1.607E+09	1607	3.54	72311.2	6.50	6500	273697.9	1.779E+09	1779	3.92
Q4 2011	147647.2	5.00	5000	558844.7	2.794E+09	2794	6.16	72089.3	4.20	4200	272858.0	1.146E+09	1146	2.53
Q1 2012	148747.0	0.60	600	563007.4	337804437	338	0.74	76306.0	7.90	7900	288818.2	2.282E+09	2282	5.03
Q2 2012	172082.0	2.40	2400	651330.5	1.563E+09	1563	3.45	22956.4	11.00	11000	86890.1	955790963	956	2.11
Q3 2012	171345.0	2.50	2500	648540.8	1.621E+09	1621	3.57	22025.0	10.80	10800	83364.6	900337950	900	1.98
Q4 2012	156653.0	4.10	4100	592931.6	2.431E+09	2431	5.36	20114.0	11.00	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	17.60	17600	1247006.5	2.195E+10	21947	48.39	19731.0	8.65	8650	74681.8	645997873	646	1.42
Q4 2013	403974.0	4.70	4700	1529041.6	7.186E+09	7186	15.84	19280.2	9.64	9640	72975.6	703484369	703	1.55
Q1 2014	304851.0	1.62	1620	1153861.0	1.869E+09	1869	4.12	18781.6	7.56	7560	71088.4	537427971	537	1.18
Q2 2014	297660.0	1.34	1340	1126643.1	1.51E+09	1510	3.33	18462.4	5.95	5950	69880.2	415787095	416	0.92
Q3 2014	309742.0	1.60	1600	1172373.5	1.876E+09	1876	4.14	17237.9	4.30	4300	65245.5	280555441	281	0.62
Q4 2014	198331.0	4.72	4720	750682.8	3.543E+09	3543	7.81	16341.8	7.67	7670	61853.7	474417979	474	1.05
Q1 2015	60553.0	8.56	8560	229193.1	1.962E+09	1962	4.33	15744.7	9.80	9800	59593.7	584018157	584	1.29
Q2 2015	75102.8	0.92	916	284264.1	260385914	260	0.57	18754.1	5.76	5760	70984.3	408869387	409	0.90
Q3 2015	116503.9	11.60	11600	440967.3	5.115E+09	5115	11.28	17657.3	9.27	9270	66832.9	619540802	620	1.37
Q4 2015	112767.7	10.6	10600	426825.7	4.524E+09	4524	9.97	15547.4	6.23	6230	58846.9	366616243	367	0.81
Totals Since Q3 2010	5082810.8						255.73	682715.7						38.77

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	58.00	58000.0	63124.0	3.7E+09	3661.2	8.07
Q2 2013	65603.4	6.30	6300.00	248308.9	1.6E+09	1564.35	3.45	25523.2	50.20	50200.0	96605.3	4.8E+09	4849.6	10.69
Q3 2013	63515.4	7.22	7220.00	240405.8	1.7E+09	1735.73	3.83	25592.9	29.70	29700.0	96869.1	2.9E+09	2877.0	6.34
Q4 2013	60233.6	7.84	7840.00	227984.2	1.8E+09	1787.40	3.94	24952.2	45.20	45200.0	94444.1	4.3E+09	4268.9	9.41
Q1 2014	58992.9	7.28	7280.00	223288.1	1.6E+09	1625.54	3.58	24532.0	54.60	54600.0	92853.6	5.1E+09	5069.8	11.18
Q2 2014	60235.3	5.91	5910.00	227990.6	1.3E+09	1347.42	2.97	24193.9	47.20	47200.0	91573.9	4.3E+09	4322.3	9.53
Q3 2014	69229.4	5.30	5300.00	262033.3	1.4E+09	1388.78	3.06	24610.9	41.50	41500.0	93152.3	3.9E+09	3865.8	8.52
Q4 2014	64422.6	7.02	7020.00	243839.5	1.7E+09	1711.75	3.77	23956.9	54.90	54900.0	90676.9	5.0E+09	4978.2	10.97
Q1 2015	36941.3	7.70	7700.00	139822.8	1.1E+09	1076.64	2.37	22046.9	69.20	69200.0	83447.5	5.8E+09	5774.6	12.73
Q2 2015	68162.8	6.33	6330.00	257996.2	1.6E+09	1633.12	3.60	23191.6	47.10	47100.0	87780.2	4.1E+09	4134.4	9.11
Q3 2015	64333.0	6.45	6450.00	243500.4	1.6E+09	1570.58	3.46	24619.9	64.70	64700.0	93186.3	6.0E+09	6029.2	13.29
Q4 2015	59235.1	6.27	6270.00	224204.9	1.4E+09	1405.76	3.10	23657.6	56.10	56100.0	89544.0	5.0E+09	5023.4	11.07
Totals Since Q3 2010	1594661.5						91.44	283555.4						120.93

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	35.90	35900.0	548229.2	2.0E+10	19681.4	43.39	99369.9	9.00	9000.0	376115.1	3.4E+09	3385.0	7.46
Q2 2013	187509.3	23.70	23700.0	709722.7	1.7E+10	16820.4	37.08	147310.4	5.24	5240.0	557569.9	2.9E+09	2921.7	6.44
Q3 2013	267703.5	32.60	32600.0	1013257.7	3.3E+10	33032.2	72.82	145840.9	5.69	5690.0	552007.8	3.1E+09	3140.9	6.92
Q4 2013	260555.3	34.60	34600.0	986201.8	3.4E+10	34122.6	75.23	126576.5	6.10	6100.0	479092.1	2.9E+09	2922.5	6.44
Q1 2014	229063.9	31.60	31600.0	867006.9	2.7E+10	27397.4	60.40	129979.2	2.16	2160.0	491971.3	1.1E+09	1062.7	2.34
Q2 2014	216984.1	35.00	35000.0	821284.8	2.9E+10	28745.0	63.37	124829.8	1.21	1210.0	472480.8	5.7E+08	571.7	1.26
Q3 2014	213652.5	31.50	31500.0	808674.7	2.5E+10	25473.3	56.16	119663.9	1.60	1600.0	452927.9	7.2E+08	724.7	1.60
Q4 2014	178468.7	35.70	35700.0	675504.0	2.4E+10	24115.5	53.17	107416.1	1.03	1030.0	406569.9	4.2E+08	418.8	0.92
Q1 2015	92449.3	34.60	34600.0	349920.6	1.2E+10	12107.3	26.69	71452.4	14.40	14400.0	270447.3	3.9E+09	3894.4	8.59
Q2 2015	62664.2	31.80	31800.0	237184.0	7.5E+09	7542.5	16.63	91985.3	1.14	1140.0	348164.4	4.0E+08	396.9	0.88
Q3 2015	66313.2	25.30	25300.0	250995.5	6.4E+09	6350.2	14.00	124137.1	1.63	1630.0	469858.9	7.7E+08	765.9	1.69
Q4 2015	107799.1	29.60	29600.0	408019.6	1.2E+10	12077.4	26.63	116420.1	1.78	1780.0	440650.1	7.8E+08	784.4	1.73
Totals Since Q3 2010	2028005.7						545.57	1404981.6						46.27

Highlighted cells are the total for the current quarter

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

	TWN-02							TW4-01						
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	31009.4	57.30	57300.0	117370.6	6.7E+09	6725.3	14.83	NA	NA	NA	NA	NA	NA	NA
Q2 2013	49579.3	57.70	57700.0	187657.7	1.1E+10	10827.8	23.87	NA	NA	NA	NA	NA	NA	NA
Q3 2013	50036.5	80.00	80000.0	189388.2	1.5E+10	15151.1	33.40	NA	NA	NA	NA	NA	NA	NA
Q4 2013	49979.9	111.00	111000.0	189173.9	2.1E+10	20998.3	46.29	NA	NA	NA	NA	NA	NA	NA
Q1 2014	48320.4	42.60	42600.0	182892.7	7.8E+09	7791.2	17.18	NA	NA	NA	NA	NA	NA	NA
Q2 2014	47611.9	44.70	44700.0	180211.0	8.1E+09	8055.4	17.76	NA	NA	NA	NA	NA	NA	NA
Q3 2014	46927.2	42.00	42000.0	177619.5	7.5E+09	7460.0	16.45	NA	NA	NA	NA	NA	NA	NA
Q4 2014	47585.6	70.60	70600.0	180111.5	1.3E+10	12715.9	28.03	NA	NA	NA	NA	NA	NA	NA
Q1 2015	47262.2	48.60	48600.0	178887.4	8.7E+09	8693.9	19.17	24569.2	7.06	7060.0	92994.4	6.6E+08	656.5	1.45
Q2 2015	48497.3	52.80	52800.0	183562.3	9.7E+09	9692.1	21.37	23989.9	6.07	6070.0	90801.8	5.5E+08	551.2	1.22
Q3 2015	48617.4	49.70	49700.0	184016.9	9.1E+09	9145.6	20.16	23652.0	6.3	6280.0	89522.8	562203309.6	562.2	1.2
Q4 2015	46754.1	44.90	44900.0	176964.3	7.9E+09	7945.7	17.52	20764.3	1.55	1550.0	78592.9	1.2E+08	121.8	0.27
Totals Since Q3 2010	562181.2						276.02	92975.4						4.17

Highlighted cells are the total for the current quarter

Highlighted cells are the total for the current quarter

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

	TW4-02							TW4-11						
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2015	24156.7	5.32	5320.0	91433.1	4.9E+08	486.4	1.07	9898.7	8.72	8720.0	37466.6	3.3E+08	326.7	0.72
Q2 2015	22029.9	4.30	4300.0	83383.2	3.6E+08	358.5	0.79	5243.3	8.48	8480.0	19845.9	1.7E+08	168.3	0.37
Q3 2015	21586.9	3.8	3760.0	81706.4	307216126.0	307.2	0.7	3584.4	9.6	9610.0	13567.0	130378427.9	130.4	0.3
Q4 2015	21769.8	5.18	5180.0	82398.7	4.3E+08	426.8	0.94	4110.3	7.50	7500.0	15557.5	1.2E+08	116.7	0.26
Totals Since Q3 2010	89543.3						3.48	22836.7						1.64

Highlighted cells are the total for the current quarter

Highlighted cells are the total for the current quarter

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

	TW4-21							TW4-37							
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)	Removed by All Wells
Calculations and Data Origination															
Q3 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	95.73
Q2 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91.71
Q3 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	176.53
Q4 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	162.07
Q1 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103.14
Q2 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.87
Q3 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92.99
Q4 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108.57
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82.61
Q2 2015	30743.7	13.1	13100.0	116364.9	1.5E+09	1524.4	3.4	29206.0	35.2	35200.0	110544.7	3.9E+09	3891.2	8.6	68.86
Q3 2015	125285.4	14.7	14700.0	474205.2	6970817013.3	6970.8	15.4	118063.9	32.4	32400.0	446871.9	14478648312.6	14478.6	31.9	118.63
Q4 2015	134774.9	14.30	14300.0	510123.0	7.3E+09	7294.8	16.08	111737.5	34.60	34600.0	422926.4	1.5E+10	14633.3	32.26	124.50
Totals Since Q3 2010	290804.0						34.81	259007.4						72.76	1568.16

Highlighted cells are the total for the current quarter

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	Q2 2014	Q3 2014	Q4 2014	Q1 2015	Q2 2015	Q3 2015	Q4 2015
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	19.4	16.8	16.2	14.9	17.0	17.9	16.3
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	23.1	18.9	20.9	18.7	19.0	19.9	18.4
MW-5	ND	NS	0.2	NS	0.2	NS	0.2	NS	0.1	NS	ND	NS	ND	NS	0.279	NS	ND	NS	0.21	NS	0.142	NS	0.118
MW-11	ND	ND	ND	ND	ND	ND	ND	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

Table 9
*Recalculated Background Flow

	Background Flow (gpm)	*Recalculated Background Flow (gpm)
minimum	1.31	0.79
maximum	2.79	1.67

** recalculated based on reduced widlife pond recharge as presented in the third quarter, 2015 Nitrate Monitoring Report*

gpm = gallons per minute

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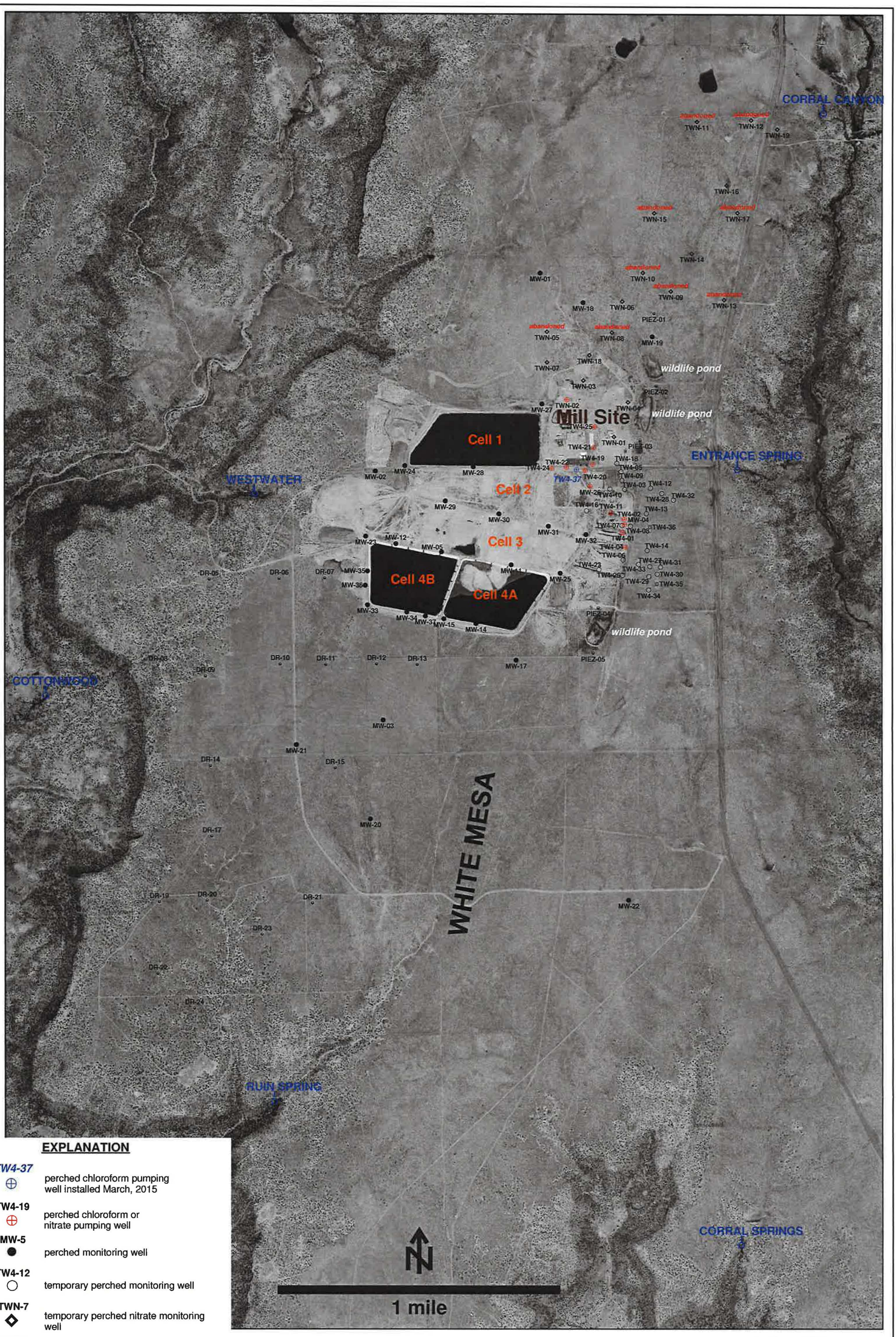
Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

TW4-37 ⊕	perched chloroform pumping well installed March, 2015
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
TW4-35 ☼	temporary perched monitoring well installed May, 2014
RUIN SPRING	seep or spring

HYDRO GEO CHEM, INC.

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/Uwelloc0615.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order
4th Quarter 2015

Nitrate Samples					
Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth	Total Depth
TWN-7	0.348	10/14/15	1347		105
TWN-18	0.35	10/13/15	1340		145
TWN-1	0.624	10/13/15	1411		112.5
TWN-4	0.974	10/13/15	1445		125.7
TWN-3	16.2	10/14/15	1400		96
TWN-2	49.7	10/14/15	1445		96
Duplicate of	TWN 18	10/13/15	1340		
Rinsate					
DI Sample	60	10/15/15	1300		
Piez 1	4.96	10/14/15	1431		
Piez 2	0.662	10/14/15	1408		
Piez 3	1.87	10/14/15	1418		

Rinsate Samples		
Name	Date	Sample
TWN-7R	10/13/15	1250
TWN-18R		
TWN-1R		
TWN-4R		
TWN-3R		
TWN-2R		

Samplers: _____

_____

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

See instruction

Description of Sampling Event: 4Th Q arter Nitrate 2015

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-01_10142015

Date and Time for Purging: 10/14/2015 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 65.05

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

Weather Cond.: Sunny

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

Time	1430	Gal. Purged	0
Conductance	2144	pH	9.30
Temp. °C	15.54		
Redox Potential Eh (mV)	220		
Turbidity (NTU)	2.1		

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 [65.08] Sample Time [1431]

See instruction

Comment

Arrived on s c at 1427 Tanner and Garr'n present to collect samples.
Samples bailed at 1431 Water was mostly clear, had a few wood like particles floating
Left site at 1435

Piez-01 10-14-2015 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 2015

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: Piez-02_10142015

Date and Time for Purging: 10/14/2015 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 38.35

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

Weather Cond.: Sunny

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

Time	1407	Gal. Purged	0
Conductance	850	pH	7.07
Temp. °C	15.44		
Redox Potential Eh (mV)	378		
Turbidity (NTU)	2.6		

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 [~~37~~ 44.31]

Sample Time [1408]

See instruction

Comment

Arrived on site at 1404 Tanner and Garrin present to collect samples.
Samples bailed at 1408 water was clear
Left site at 1412

Piez-0Z 10-14-2015 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 2015

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-03_10142015

Date and Time for Purging: 10/14/2015 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 49.29

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

Weather Cond.: Sunny

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

Time	1417	Gal. Purged	0
Conductance	1195	pH	10.95
Temp. °C	16.16		
Redox Potential Eh (mV)	290		
Turbidity (NTU)	5.1		

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 [55.45] Sample Time [1418]

See instruction

Comment

Arrived on site at 1415 Tanner and Garrin present to collect samples.
Samples bailed at 1418 water was clear
Left site at 1424

Piez-03 10-14-2015 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: 4th Quarter Nitrate 2015

Location (well name): TWN-01

Sampler Name and initials: Tanner Holliday TH

Field Sample ID TWN-01_10132015

Date and Time for Purging 10/13/2015 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-18

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging 61.86

Casing Volume (V) 4" Well: 33.06 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	1408	Gal. Purged	55
Conductance	853	pH	6.70
Temp. °C	15.37		
Redox Potential Eh (mV)	396		
Turbidity (NTU)	13		

Time	1409	Gal. Purged	66
Conductance	856	pH	6.75
Temp. °C	15.36		
Redox Potential Eh (mV)	393		
Turbidity (NTU)	14		

Time	1410	Gal. Purged	77
Conductance	858	pH	6.77
Temp. °C	15.37		
Redox Potential Eh (mV)	388		
Turbidity (NTU)	14		

Time	1411	Gal. Purged	88
Conductance	863	pH	6.79
Temp. °C	15.37		
Redox Potential Eh (mV)	385		
Turbidity (NTU)	14		

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 = 6.01

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 108.71
108.71

Sample Time 1411

See instruction

Comment

Arrived on site at 1400 Tanner and Garrin present for purge and sampling event.
Purge began at 1403 Purged well for a total of 8 minutes.
Purge ended and samples were collected at ~~w~~ 1411
Water was clear
Left site at 1414

TWN-01 10-13-2015 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 2015

Location (well name): TWN-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-02_10142015

Date and Time for Purging 10/14/2015 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 Nitrate

Prev. Well Sampled in Sampling Event Piez-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging 28.34

Casing Volume (V) 4" Well: 44.18 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	1444	Gal. Purged	0
Conductance	3059	pH	7.70
Temp. °C	15.71		
Redox Potential Eh (mV)	242		
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 = [4.90]

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 [43.28] Sample Time [1445]

See instruction

Comment

Arrived on site at 1442 Tanner and Garrin present to collect samples.
Samples collected at 1445 Water was clear
Left site at 1447

Continuous pumping well

TWN-02 10-14-2015 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 4TH Quarter Nitrate 2015

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-03_10142015

Date and Time for Purging: 10/13/2015 and Sampling (if different): 10/14/2015

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 38.03

Casing Volume (V) 4" Well: 37.85 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1513	Gal. Purged	49.50
Conductance	2285	pH	6.52
Temp. °C	15.11		
Redox Potential Eh (mV)	412		
Turbidity (NTU)	23		

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

Time	1400	Gal. Purged	0
Conductance	2254	pH	6.59
Temp. °C	15.95		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	1401	Gal. Purged	0
Conductance	2260	pH	6.58
Temp. °C	15.98		
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 = 6.88

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

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 94.08 Sample Time 1400

See instruction

Comment

Arrived on site at 1506 Tanner and Garrin present for purge. Purge began at 1509
Purged well for a total of 4 minutes and 30 seconds. [illegible] well d[illegible]
Purge ended at 1513. Water was clear. Left site at 1512

Arrived on site at 1356 Tanner and Garrin present to collect samples. Depth to water was 38.49 samples bailed at 1400 Left site at 1402

TWN-03 10-13-2015 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 2015

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-04_10132015

Date and Time for Purging 10/13/2015 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 1000 µMHOS/ cm

Well Depth(0.01ft): 123.70

Depth to Water Before Purging 54.60

Casing Volume (V) 4" Well: 46.42 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	1442	Gal. Purged	88
Conductance	1051	pH	6.70
Temp. °C	14.95		
Redox Potential Eh (mV)	405		
Turbidity (NTU)	70		

Time	1443	Gal. Purged	99
Conductance	1051	pH	6.72
Temp. °C	14.94		
Redox Potential Eh (mV)	400		
Turbidity (NTU)	71		

Time	1444	Gal. Purged	110
Conductance	1050	pH	6.73
Temp. °C	14.95		
Redox Potential Eh (mV)	396		
Turbidity (NTU)	71		

Time	1445	Gal. Purged	121
Conductance	1050	pH	6.75
Temp. °C	14.95		
Redox Potential Eh (mV)	394		
Turbidity (NTU)	73		

Volume of Water Purged 121 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.44

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 57.00 Sample Time 1445

See instruction

Comment

Arrived on site at 1431 Tanner and Garrin present for purge and sampling event. Purge began at 1434 Purged well for a total of 11 minutes. Purge ended and samples collected at 1445
water was mostly clear
Left site at 1448

TWN-04 10-13-2015 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: 4Th Quarter Nitrate 2015

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TWN-07_10142015

Date and Time for Purging: 10/13/2015 and Sampling (if different): 10/14/2015

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-07R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging: 85.66

Casing Volume (V) 4" Well: ~~0~~ 12.62 (.653h) 12.62
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1301	Gal. Purged	16.50
Conductance	1256	pH	6.14
Temp. °C	15.54		
Redox Potential Eh (mV)	406		
Turbidity (NTU)	15.0		

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

Time	1347	Gal. Purged	0
Conductance	1534	pH	6.50
Temp. °C	17.40		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	1348	Gal. Purged	0
Conductance	1519	pH	6.51
Temp. °C	17.44		
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 = 2.29

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

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 103.02 Sample Time 1347

See instruction

Comment

Arrived on site at 1257 Tanner and Garrin present for purge. Purge began at 1300 Purged well for a total of 1 minute 30 seconds. Purged well dry! Purge ended at 1301. Water was mostly clear. Left site at 1304.
Arrived on site at 1344 Tanner and Garrin present to collect samples. Depth to water was 94.86 samples bailed at 1347 Left site at 1349

TWN-07 10-13-2015 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: 4Th Quarter Nitrate 2015

Location (well name): TWN-07R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-07R_10132015

Date and Time for Purging 10/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 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. Sunny

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

Time	1249	Gal. Purged	121
Conductance	15	pH	7.30
Temp. °C	20.22		
Redox Potential Eh (mV)	344		
Turbidity (NTU)	2.4		

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 = 6

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 1250

See instruction

Comment

Arrived on site at 1235 Tanner and Garrin present for rinsate
Rinsate began at 1238 Pumped 50 Gallons of soap water and 100 Gallons of DI water. Rinsate ended at 1253. Left site at 1255

TWN-07R 10-13-2015 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: 4Th Quarter Nitrate 2015

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-18_10132015 TWN-18_10132015

Date and Time for Purging: 10/13/2015 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-07

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging: 60.26

Casing Volume (V) 4" Well: 55.33 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1337	Gal. Purged	99
Conductance	2261	pH	6.56
Temp. °C	14.72		
Redox Potential Eh (mV)	396		
Turbidity (NTU)	90		

Time	1338	Gal. Purged	110
Conductance	2263	pH	6.56
Temp. °C	14.72		
Redox Potential Eh (mV)	395		
Turbidity (NTU)	90		

Time	1339	Gal. Purged	121
Conductance	2262	pH	6.58
Temp. °C	14.70		
Redox Potential Eh (mV)	389		
Turbidity (NTU)	89		

Time	1340	Gal. Purged	132
Conductance	2262	pH	6.60
Temp. °C	14.70		
Redox Potential Eh (mV)	386		
Turbidity (NTU)	88		

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 = 10.06

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 61.90 Sample Time 1340

See instruction

Comment

Arrived on site at 1324 Tanner and Garrin present for purge and sampling event. Purge began at 1328. Purged well for a total of 12 minutes. Purge ended and samples collected at 1340. water was mostly clear Left site at 1344

TWN-18 10-13-2015 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 Chloroform 2015

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_10192015

Date and Time for Purging: 10/19/2015 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: TW4-24

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 60.92

Casing Volume (V) 4" Well: 34.33 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	1425	Gal. Purged	0
Conductance	5429	pH	6.68
Temp. °C	16.10		
Redox Potential Eh (mV)	275		
Turbidity (NTU)	1.0		

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 = [17.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [4.03]

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 [106.11] Sample Time [1426]

See instruction

Comment

Arrived on site at 1422 Tanner and Garrin present to collect samples
Samples collected at 1426 Water was clear
Left site at 1428
Continuous Pumping Well

TW4-22 10-19-2015 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 Chloroform 2015

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-24_10192015

Date and Time for Purging 10/19/2015 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 TW4-21

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging 62.10

Casing Volume (V) 4" Well: 32.91 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	1413	Gal. Purged	0
Conductance	7905	pH	6.51
Temp. °C	16.49		
Redox Potential Eh (mV)	327		
Turbidity (NTU)	2.1		

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 = 16.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.11

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 90.02 Sample Time 1414

See instruction

Comment

Arrived on site at 1410 Tanner and Garrin present to collect samples.
Samples collected at 1414 water was clear
Left site at 1419

Continuous Pumping well

TW4-24 10-19-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform

Location (well name): ~~TW4-25~~ TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-25_10212015

Date and Time for Purging 10/21/2015 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 TW4-34

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 134.80

Depth to Water Before Purging 62.85

Casing Volume (V) 4" Well: 46.98 (.653h)
3" Well: 0 (.367h)

Weather Cond. Cloudy, Raining

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

Time	0841	Gal. Purged	0
Conductance	2545	pH	5.99
Temp. °C	15.06		
Redox Potential Eh (mV)	388		
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 = 15.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.26

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 85.35 Sample Time 0842

See instruction

Comment

Arrived on site at 0838 Tanner and Garrin present to collect samples.
Samples collected at 0842 Water was clear
Left site at 0845

Continuous Pumping Well

TW4-25 10-21-2015 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 2015

Location (well name): TWN-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-60_10152015

Date and Time for Purging 10/15/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) N/A

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 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. Sunny

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

Time	1259	Gal. Purged	0
Conductance	10.8	pH	6.95
Temp. °C	21.62		
Redox Potential Eh (mV)	335		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged 0 gallon(s)

Pumping Rate Calculation

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

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

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

Type of Sample	Sample Taken		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 1300

See instruction

Comment

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TWN-60 10-15-2015 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 Chloroform 2015

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_10292015

Date and Time for Purging: 10/29/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

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

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-10

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 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.: Cloudy

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

Time	0900	Gal. Purged	0
Conductance	15.9	pH	7.89
Temp. °C	18.10		
Redox Potential Eh (mV)	234		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

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

Type of Sample	Sample Taken		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 [0900]

See instruction

Comment

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TW4-60 10-29-2015 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: 4Th Quarter Nitrate 2015

Location (well name): TWN-65_~~101~~ TWN-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-65_10132015

Date and Time for Purging: 10/13/2015 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-07

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging: 60.26

Casing Volume (V) 4" Well: 55.33 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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 = 10.06

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 61.90 Sample Time 1340

See instruction

Comment

Duplicate of TWN-18

TWN-65 10-13-2015 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

12/2/2015

TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)
1325	MW-1	64.24	1211	MW-4	71.20	1258	PIEZ-1	64.84	NA	DR-1	Abandoned
1320	MW-2	109.94	1213	TW4-1	89.04	1251	PIEZ-2	38.60	NA	DR-2	Abandoned
929	MW-3	82.68	1210	TW4-2	86.38	1244	PIEZ-3	49.10	907	DR-5	83.35
928	MW-3A	84.75	1226	TW4-3	56.66	1246	PIEZ-4	58.24	904	DR-6	94.35
1317	MW-5	106.35	1215	TW4-4	71.86	1244	PIEZ-5	57.71	1304	DR-7	92.32
1332	MW-11	86.25	1228	TW4-5	64.37	1342	TWN-1	62.04	853	DR-8	51.30
1314	MW-12	108.50	1216	TW4-6	71.34	1215	TWN-2	28.80	851	DR-9	86.82
1253	MW-14	103.25	1222	TW4-7	81.60	1235	TWN-3	38.41	848	DR-10	78.34
1318	MW-15	106.01	1224	TW4-8	81.18	1239	TWN-4	54.85	923	DR-11	98.17
935	MW-17	72.19	1229	TW4-9	62.18	NA	TWN-5	Abandoned	925	DR-12	90.95
1316	MW-18	71.97	1231	TW4-10	61.85	1312	TWN-6	78.22	932	DR-13	70.10
1255	MW-19	61.49	1208	TW4-11	90.95	1328	TWN-7	85.38	845	DR-14	76.55
811	MW-20	89.70	954	TW4-12	45.70	NA	TWN-8	Abandoned	915	DR-15	93.05
805	MW-22	66.99	952	TW4-13	51.92	NA	TWN-9	Abandoned	NA	DR-16	Abandoned
1312	MW-23	116.75	949	TW4-14	80.65	NA	TWN-10	Abandoned	837	DR-17	65.06
1323	MW-24	113.35	1206	TW4-15	65.20	NA	TWN-11	Abandoned	NA	DR-18	Abandoned
1249	MW-25	76.66	1233	TW4-16	63.17	NA	TWN-12	Abandoned	823	DR-19	63.22
1206	MW-26	65.20	1236	TW4-17	77.26	NA	TWN-13	Abandoned	821	DR-20	55.83
1231	MW-27	54.31	1339	TW4-18	65.08	1303	TWN-14	61.30	817	DR-21	101.30
1326	MW-28	75.50	1152	TW4-19	63.88	NA	TWN-15	Abandoned	831	DR-22	60.67
1338	MW-29	101.50	1205	TW4-20	64.10	1306	TWN-16	47.74	913	DR-23	70.75
1335	MW-30	75.60	1138	TW4-21	69.47	NA	TWN-17	Abandoned	828	DR-24	44.40
1329	MW-31	68.56	1204	TW4-22	60.77	1335	TWN-18	60.21	NA	DR-25	Abandoned
1236	MW-32	77.26	1238	TW4-23	69.09	759	TWN-19	53.48			
1302	MW-33	DRY	1203	TW4-24	66.92						
1309	MW-34	107.95	1201	TW4-25	66.49						
1309	MW-35	112.59	1241	TW4-26	66.45						
1307	MW-36	110.70	940	TW4-27	80.02						
1256	MW-37	114.61	955	TW4-28	39.73						
			948	TW4-29	73.70						
			943	TW4-30	76.25						
			941	TW4-31	80.29						
			957	TW4-32	51.26						
			938	TW4-33	72.39						
			946	TW4-34	71.55						
			944	TW4-35	74.30						
			951	TW4-36	56.64						
			1204	TW4-37	63.60						

Weekly Inspection Form

Date 10/8/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1428	MW-4	78.87	Flow 4.4	Yes No
			Meter 787671.17	Yes No
1421	MW-26	64.24	Flow 8.4	Yes No
			Meter 37421.00	Yes No
1345	TW4-19	63.68	Flow 18.2	Yes No
			Meter 161082.00	Yes No
1417	TW4-20	64.93	Flow 7.6	Yes No
			Meter 99070.85	Yes No
1432	TW4-4	72.00	Flow 10.4	Yes No
			Meter 199496.60	Yes No
1406	TWN-2	29.00	Flow 18.6	Yes No
			Meter 519614.00	Yes No
1412	TW4-22	68.11	Flow 16.8	Yes No
			Meter 261944.60	Yes No
1409	TW4-24	62.25	Flow 18.0	Yes No
			Meter 1925714.70	Yes No
1403	TW4-25	63.24	Flow 16.0	Yes No
			Meter 1299107.40	Yes No
1429	TW4-1	81.50	Flow 16.0	Yes No
			Meter 74758.20	Yes No
1426	TW4-2	77.55	Flow 16.6	Yes No
			Meter 69569.50	Yes No
1423	TW4-11	90.53	Flow 16.4	Yes No
			Meter 19137.30	Yes No
1359	TW4-21	66.34	Flow 16.2	Yes No
			Meter 166988.34	Yes No
1415	TW4-37	69.62	Flow 16.8	Yes No
			Meter 157548.90	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 10/12/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1250	MW-4	78.18	Flow	4.6	Yes No
			Meter	791608.96	Yes No
1239	MW-26	62.85	Flow	8.2	Yes No
			Meter	38357.60	Yes No
1355	TW4-19	64.20	Flow	18.2	Yes No
			Meter	166164.20	Yes No
1237	TW4-20	63.14	Flow	8.1	Yes No
			Meter	99779.50	Yes No
1254	TW4-4	70.02	Flow	10.6	Yes No
			Meter	202009.9	Yes No
1225	TWN-2	29.92	Flow	18.2	Yes No
			Meter	521715.90	Yes No
1234	TW4-22	58.06	Flow	17.6	Yes No
			Meter	263082.10	Yes No
1231	TW4-24	61.95	Flow	16.0	Yes No
			Meter	1928246.40	Yes No
1221	TW4-25	78.00	Flow	15.0	Yes No
			Meter	1304461.40	Yes No
1252	TW4-1	105.23	Flow	16.2	Yes No
			Meter	75132.90	Yes No
1247	TW4-2	94.09	Flow	16.1	Yes No
			Meter	70325.00	Yes No
1244	TW4-11	92.00	Flow	16.2	Yes No
			Meter	19329.20	Yes No
1218	TW4-21	66.93	Flow	16.2 GPM	Yes No
			Meter	172311.75	Yes No
1238	TW4-37	61.71	Flow	17.0	Yes No
			Meter	162439.90	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 10/19/15 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1302	MW-4	78.40	Flow	4.6	Yes No
			Meter	798940.76	Yes No
1443	MW-26	63.45	Flow	8.0	Yes No
			Meter	39803.20	Yes No
1340	TW4-19	64.00	Flow	18.0	Yes No
			Meter	174945.40	Yes No
1436	TW4-20	67.98	Flow	8.0	Yes No
			Meter	100942.04	Yes No
1320	TW4-4	70.20	Flow	11.0	Yes No
			Meter	206809.0	Yes No
1403	TWN-2	27.79	Flow	19.0	Yes No
			Meter	525447.60	Yes No
1222	TW4-22	60.92	Flow	17.0	Yes No
			Meter	264983.10	Yes No
1410	TW4-24	62.10	Flow	16.0	Yes No
			Meter	1933856.70	Yes No
1359	TW4-25	63.14	Flow	15.2	Yes No
			Meter	1313837.40	Yes No
1308	TW4-1	77.05	Flow	16.5	Yes No
			Meter	76832.90	Yes No
1456	TW4-2	77.20	Flow	17.0	Yes No
			Meter	71861.90	Yes No
1451	TW4-11	~~62.85~~	Flow	16.0	Yes No
		89.50	Meter	19663.80	Yes No
1355	TW4-21	66.25	Flow	16.4	Yes No
			Meter	181811.62	Yes No
1429	TW4-37	63.15	Flow	16.8	Yes No
			Meter	171422.30	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 10/26/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1236	MW-4	78.40	Flow	4.4	(Yes) No
			Meter	806029.87	(Yes) No
1225	MW-26	62.92	Flow	8.0	(Yes) No
			Meter	41322.90	(Yes) No
1410	TW4-19	64.22	Flow	18.2	(Yes) No
			Meter	183959.20	(Yes) No
1222	TW4-20	63.42	Flow	7.0	(Yes) No
			Meter	102391.59	(Yes) No
1240	TW4-4	71.20	Flow	10.0	(Yes) No
			Meter	211439.00	(Yes) No
1211	TWN-2	48.39	Flow	18.2	(Yes) No
			Meter	529242.40	(Yes) No
1217	TW4-22	58.12	Flow	17.0	(Yes) No
			Meter	266744.40	(Yes) No
1214	TW4-24	61.72	Flow	16.8	(Yes) No
			Meter	1937317.90	(Yes) No
1207	TW4-25	95.45	Flow	14.0	(Yes) No
			Meter	1322753.60	(Yes) No
1238	TW4-1	76.20	Flow	16.0	(Yes) No
			Meter	78501.00	(Yes) No
1234	TW4-2	87.95	Flow	16.0	(Yes) No
			Meter	73498.20	(Yes) No
1228	TW4-11	92.18	Flow	16.0	(Yes) No
			Meter	20097.30	(Yes) No
1203	TW4-21	67.13	Flow	16.0	(Yes) No
			Meter	191342.50	(Yes) No
1220	TW4-37	61.85	Flow	17.0	(Yes) No
			Meter	180131.40	(Yes) No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 10/29/2015 **Name** Tanner Holliday

Time	Well	Depth*	Time	Well	Depth*
1426	MW-4	78.31	1350	TWN-1	61.51
1428	TW4-1	76.23	1353	TWN-2	28.36
1424	TW4-2	80.33	1355	TWN-3	37.90
1511	TW4-3	55.87	1358	TWN-4	54.18
1431	TW4-4	71.25	1401	TWN-7	85.73
1507	TW4-5	63.70	1400	TWN-18	59.79
0823	TW4-6	71.75	1403	MW-27	53.59
0818	TW4-7	76.35	~~1556~~ 1549	MW-30	~~75.25~~ 75.04
0813	TW4-8	77.31	~~1423 1557~~ 1547	MW-31	~~79.81~~ 68.04
1509	TW4-9	61.50			
0832	TW4-10	61.28			
1419	TW4-11	91.98			
1520	TW4-12	45.26			
1525	TW4-13	50.86	1521	TW4-28	39.30
1528	TW4-14	80.31	0804	TW4-29	73.20
1416	TW4-15	64.44	1536	TW4-30	75.75
1542	TW4-16	63.15	1537	TW4-31	79.81
1544	TW4-17	76.85	1523	TW4-32	50.56
1352	TW4-18	64.49	0757	TW4-33	71.96
1430	TW4-19	67.25	1532	TW4-34	71.04
1410	TW4-20	64.75	~~1532~~ 1534	TW4-35	~~79.04~~ 73.75
1343	TW4-21	66.85	1527	TW4-36	56.08
1407	TW4-22	59.31	1413	TW4-37	62.84
1514	TW4-23	68.37			
1405	TW4-24	62.04			
1347	TW4-25	65.10			
1516	TW4-26	65.90			
1530	TW4-27	79.71			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 11/2/2015 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1338	MW-4	78.85	Flow 4.4	Yes No
			Meter 813326.79	Yes No
1328	MW-26	63.70	Flow 8.0	Yes No
			Meter 42973.6	Yes No
1400				
~~[illegible]~~	TW4-19	63.48	Flow 18.0	Yes No
			Meter 192744.1	Yes No
1324	TW4-20	73.35	Flow 7.3	Yes No
			Meter 103512.71	Yes No
1344	TW4-4	72.14	Flow 10.0	Yes No
			Meter 216211.5	Yes No
1309	TWN-2	27.90	Flow 18.0	Yes No
			Meter 532983.4	Yes No
1318	TW4-22	57.71	Flow 17.0	Yes No
			Meter 268613.1	Yes No
1313	TW4-24	62.42	Flow 16.0	Yes No
			Meter 1944124.7	Yes No
1306	TW4-25	64.52	Flow 17.0	Yes No
			Meter 1331812.2	Yes No
1341	TW4-1	84.33	Flow 16.0	Yes No
			Meter 80209.2	Yes No
1334	TW4-2	79.71	Flow 16.0	Yes No
			Meter 75175.2	Yes No
1331	TW4-11	92.16	Flow 16.0	Yes No
			Meter 20333.2	Yes No
1302	TW4-21	66.40	Flow 16.0	Yes No
			Meter 200813.93	Yes No
1321	TW4-37	61.20	Flow 17.0	Yes No
			Meter ~~[illegible]~~ 188974.6	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 11/10/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1012	MW-4	79.29	Flow	4.4 GPM	Yes No
			Meter	821352.83	Yes No
1006	MW-26	64.17	Flow	8.1 GPM	Yes No
			Meter	44685.20	Yes No
1118	TW4-19	64.28	Flow	18.0 GPM	Yes No
			Meter	202701.40	Yes No
1003	TW4-20	62.76	Flow	8.0 GPM	Yes No
			Meter	104841.25	Yes No
1019	TW4-4	69.99	Flow	11.0 GPM	Yes No
			Meter	221578.50	Yes No
0944	TWN-2	28.65	Flow	18.4 GPM	Yes No
			Meter	537155.20	Yes No
0955	TW4-22	57.90	Flow	16.4 GPM	Yes No
			Meter	270707.90	Yes No
0949	TW4-24	68.93	Flow	16.0 GPM	Yes No
			Meter	1957174.80	Yes No
0941	TW4-25	67.39	Flow	15.0 GPM	Yes No
			Meter	1342171.80	Yes No
1016	TW4-1	84.36	Flow	~~89~~. 16.0 GPM	Yes No
			Meter	82010.00	Yes No
1011	TW4-2	85.85	Flow	16.2 GPM	Yes No
			Meter	77251.50	Yes No
1009	TW4-11	94.20	Flow	16.0	Yes No
			Meter	20705.60	Yes No
0938	TW4-21	66.70	Flow	16.0 GPM	Yes No
			Meter	212162.72	Yes No
1000	TW4-37	61.32	Flow	16.6 GPM	Yes No
			Meter	198801.50	Yes No

Operational Problems (Please list well number):

Corrective Action(s) Taken (Please list well number): Turned on heat lamps in boxes for winter months.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 11/17/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1432	MW-4	70.01	Flow	4.5	Yes No
			Meter	830320.00	Yes No
1415	MW-26	63.10	Flow	8.0	Yes No
			Meter	46299.20	Yes No
1505	TW4-19	78.02	Flow	18.0	Yes No
			Meter	211141.60	Yes No
1411	TW4-20	64.18	Flow	8.0	Yes No
			Meter	106126.60	Yes No
1428	TW4-4	71.88	Flow	11.2	Yes No
			Meter	226211.10	Yes No
1319	TWN-2	29.64	Flow	18.6	Yes No
			Meter	540861.66	Yes No
1405	TW4-22	79.10	Flow	16.4	Yes No
			Meter	272745.40	Yes No
1326	TW4-24	66.72	Flow	16.0	Yes No
			Meter	1968787.60	Yes No
1315	TW4-25	64.20	Flow	15.4	Yes No
			Meter	1351381.60	Yes No
1424	TW4-1	87.00	Flow	16.3	Yes No
			Meter	83696.00	Yes No
1421	TW4-2	79.00	Flow	16.2	Yes No
			Meter	79285.70	Yes No
1418	TW4-11	86.18	Flow	16.0	Yes No
			Meter	21030.90	Yes No
1309	TW4-21	66.96	Flow	16.4	Yes No
			Meter	223128.87	Yes No
1408	TW4-37	82.40	Flow	14.0	Yes No
			Meter	207915.50	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 11/25/2015 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1215	MW-4	76.81	Flow 4.4	Yes No
			Meter 847872.21	Yes No
1204	MW-26	63.95	Flow 8.0	Yes No
			Meter 47936.7	Yes No
1100	TW4-19	74.23	Flow 18.0	Yes No
			Meter 221829.6	Yes No
1201	TW4-20	64.89	Flow 8.0	Yes No
			Meter 107536.37	Yes No
1222	TW4-4	72.11	Flow 11.0	Yes No
			Meter 231589.3	Yes No
1129	TWN-2	29.03	Flow 18.5	Yes No
			Meter 544923.8	Yes No
1155	TW4-22	59.36	Flow 16.5	Yes No
			Meter 274745.5	Yes No
1152	TW4-24	68.44	Flow 16.0	Yes No
			Meter 1981830.5	Yes No
1126	TW4-25	64.57	Flow 15.5	Yes No
			Meter 1362497.9	Yes No
1218	TW4-1	85.67	Flow 16.0	Yes No
			Meter 85306.6	Yes No
1212	TW4-2	81.24	Flow 16.0	Yes No
			Meter 81253.4	Yes No
1208	TW4-11	91.25	Flow 16.0	Yes No
			Meter 21383.1	Yes No
1123	TW4-21	66.83	Flow 16.5	Yes No
			Meter 236199.24	Yes No
1158	TW4-37	71.14	Flow 14.0	Yes No
			Meter 217805.1	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 11/25/2015 **Name** Tanner Holliday

Time	Well	Depth*	Time	Well	Depth*
1215	MW-4	76.81	1118	TWN-1	61.56
1218	TW4-1	85.67	1129	TWN-2	29.03
1212	TW4-2	81.24	1132	TWN-3	37.85
~~1232~~ 1403	TW4-3	~~35.85~~ 55.85	1136	TWN-4	54.30
1222	TW4-4	72.11	1147	TWN-7	85.46
1408	TW4-5	63.67	1139	TWN-18	59.80
1313	TW4-6	71.32	1143	MW-27	53.51
1358	TW4-7	82.33	1422	MW-30	74.90
1400	TW4-8	79.81	1419	MW-31	67.95
1406	TW4-9	61.50			
1411	TW4-10	61.17			
1208	TW4-11	91.25			
1340	TW4-12	45.25			
1347	TW4-13	50.76	1342	TW4-28	39.30
1352	TW4-14	80.31	1326	TW4-29	73.04
1204	TW4-15	63.95	1335	TW4-30	75.65
1413	TW4-16	63.06	1337	TW4-31	79.69
1416	TW4-17	76.62	1344	TW4-32	50.60
1121	TW4-18	64.58	1322	TW4-33	71.85
1100	TW4-19	74.23	1329	TW4-34	71.15
1201	TW4-20	64.89	1332	TW4-35	73.75
1123	TW4-21	66.83	1349	TW4-36	56.07
1155	TW4-22	59.36	1158	TW4-37	71.14
1315	TW4-23	68.45			
1152	TW4-24	68.44			
1126	TW4-25	64.57			
1318	TW4-26	65.95			
1324	TW4-27	79.51			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 11/30/2015 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1330	MW-4	81.95	Flow 4.3	Yes No
			Meter 857199.11	Yes No
1314	MW-26	64.36	Flow 8.0	Yes No
			Meter 49017.0	Yes No
1400	TW4-19	64.20	Flow 18.0	Yes No
			Meter 228160.2	Yes No
1310	TW4-20	63.00	Flow 8.0	Yes No
			Meter 108413.68	Yes No
1343	TW4-4	72.36	Flow 11.0	Yes No
			Meter 234889.7	Yes No
1255	TWN-2	29.40	Flow 18.5	Yes No
			Meter 547501.3	Yes No
1302	TW4-22	58.38	Flow 16.5	Yes No
			Meter 276175.5	Yes No
1259	TW4-24	68.71	Flow 16.0	Yes No
			Meter 1990293.7	Yes No
1251	TW4-25	66.41	Flow 15.5	Yes No
			Meter 1368967.7	Yes No
1339	TW4-1	92.12	Flow 16.0	Yes No
			Meter 86493.60	Yes No
1321	TW4-2	89.29	Flow 16.0	Yes No
			Meter 82572.5	Yes No
1317	TW4-11	91.87	Flow 16.0	Yes No
			Meter 21511.0	Yes No
1246	TW4-21	67.78	Flow 16.5	Yes No
			Meter 244474.28	Yes No
1307	TW4-37	61.62	Flow 14.0	Yes No
			Meter 224176.3	Yes No

Operational Problems (Please list well number): Had to Reset Timer on MW-04.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 12/7/2015 **Name** Tanner Holliday, Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1525	MW-4	74.74	Flow	4.5	(Yes) No
			Meter	857190.38	(Yes) No
1513	MW-26	70.21	Flow	8.0	(Yes) No
			Meter	50669.30	(Yes) No
1600 ~~1513~~	TW4-19	65.36 ~~70.21~~	Flow	18.0	(Yes) No
			Meter	~~50669.30~~ 237272.80	(Yes) No
1510	TW4-20	63.42	Flow	8.0	(Yes) No
			Meter	109788.48	(Yes) No
1532	TW4-4	73.97	Flow	11.0	(Yes) No
			Meter	239568.20	(Yes) No
1500	TWN-2	29.70	Flow	18.0	(Yes) No
			Meter	551264.70	(Yes) No
1507	TW4-22	58.85	Flow	17.0	(Yes) No
			Meter	278077.60	(Yes) No
1504	TW4-24	63.75	Flow	14.2	(Yes) No
			Meter	2001744.80	(Yes) No
1457	TW4-25	63.15	Flow	13.8	(Yes) No
			Meter	1377079.60	(Yes) No
1528	TW4-1	79.26	Flow	14.6	(Yes) No
			Meter	89072.30	(Yes) No
1522	TW4-2	80.01	Flow	17.0	(Yes) No
			Meter	84265.70	(Yes) No
1516	TW4-11	90.70	Flow	16.0	(Yes) No
			Meter	21901.20	(Yes) No
1453	TW4-21	68.55	Flow	16.0	(Yes) No
			Meter	256304.31	(Yes) No
1510	TW4-37	62.35	Flow	17.0	(Yes) No
			Meter	232916.40	(Yes) No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 12/15/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
0926	MW-4	73.96	Flow	4.5	Yes No
			Meter	865471.52	Yes No
0917	MW-26	71.80	Flow	8.0	Yes No
			Meter	52385.10	Yes No
0810	TW4-19	63.98	Flow	16.0	Yes No
			Meter	246815.50	Yes No
0914	TW4-20	63.60	Flow	8.0	Yes No
			Meter	111181.07	Yes No
0934	TW4-4	74.86	Flow	11.0	Yes No
			Meter	244695.60	Yes No
0903	TWN-2	32.40	Flow	18.4	Yes No
			Meter	555375.30	Yes No
0940	TW4-22	59.11	Flow	17.2	Yes No
			Meter	280037.60	Yes No
0907	TW4-24	70.22	Flow	17.0	Yes No
			Meter	2014713.90	Yes No
0856	TW4-25	62.65	Flow	15.6	Yes No
			Meter	1387970.40	Yes No
0929	TW4-1	79.02	Flow	16.0	Yes No
			Meter	89827.70	Yes No
0923	TW4-2	80.84	Flow	16.6	Yes No
			Meter	86281.00	Yes No
0921	TW4-11	91.18	Flow	16.0	Yes No
			Meter	22272.80	Yes No
0851	TW4-21	68.10	Flow	16.1	Yes No
			Meter	269451.57	Yes No
0911	TW4-37	66.87	Flow	17.4	Yes No
			Meter	242626.10	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 12/22/2015 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1259	MW-4	74.26	Flow 4.5	Yes No
			Meter 872747.21	Yes No
1247	MW-26	64.83	Flow 8.0	Yes No
			Meter 53842.9	Yes No
1320	TW4-19	64.27	Flow 16.0	Yes No
			Meter 256007.8	Yes No
1243	TW4-20	63.94	Flow 8.0	Yes No
			Meter 112220.60	Yes No
1305	TW4-4	72.12	Flow 11.0	Yes No
			Meter 249210.7	Yes No
1228	TWN-2	29.33	Flow 18.2	Yes No
			Meter 558965.3	Yes No
1236	TW4-22	59.08	Flow 17.0	Yes No
			Meter 281947.2	Yes No
1233	TW4-24	80.45	Flow 17.0	Yes No
			Meter 2023227.9	Yes No
1224	TW4-25	64.13	Flow 16.0	Yes No
			Meter 1397285.8	Yes No
1301	TW4-1	79.39	Flow 16.0	Yes No
			Meter 91599.1	Yes No
1255	TW4-2	81.02	Flow 16.5	Yes No
			Meter 88023.5	Yes No
1251	TW4-11	91.25	Flow 16.0	Yes No
			Meter 22571.3	Yes No
1220	TW4-21	68.16	Flow 16.0	Yes No
			Meter ~~285~~ 281212.06	Yes No
1239	TW4-37	65.43	Flow 17.1	Yes No
			Meter 251512.1	Yes No

Operational Problems (Please list well number):

Corrective Action(s) Taken (Please list well number): Replaced Heat lamp on TWN-02

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

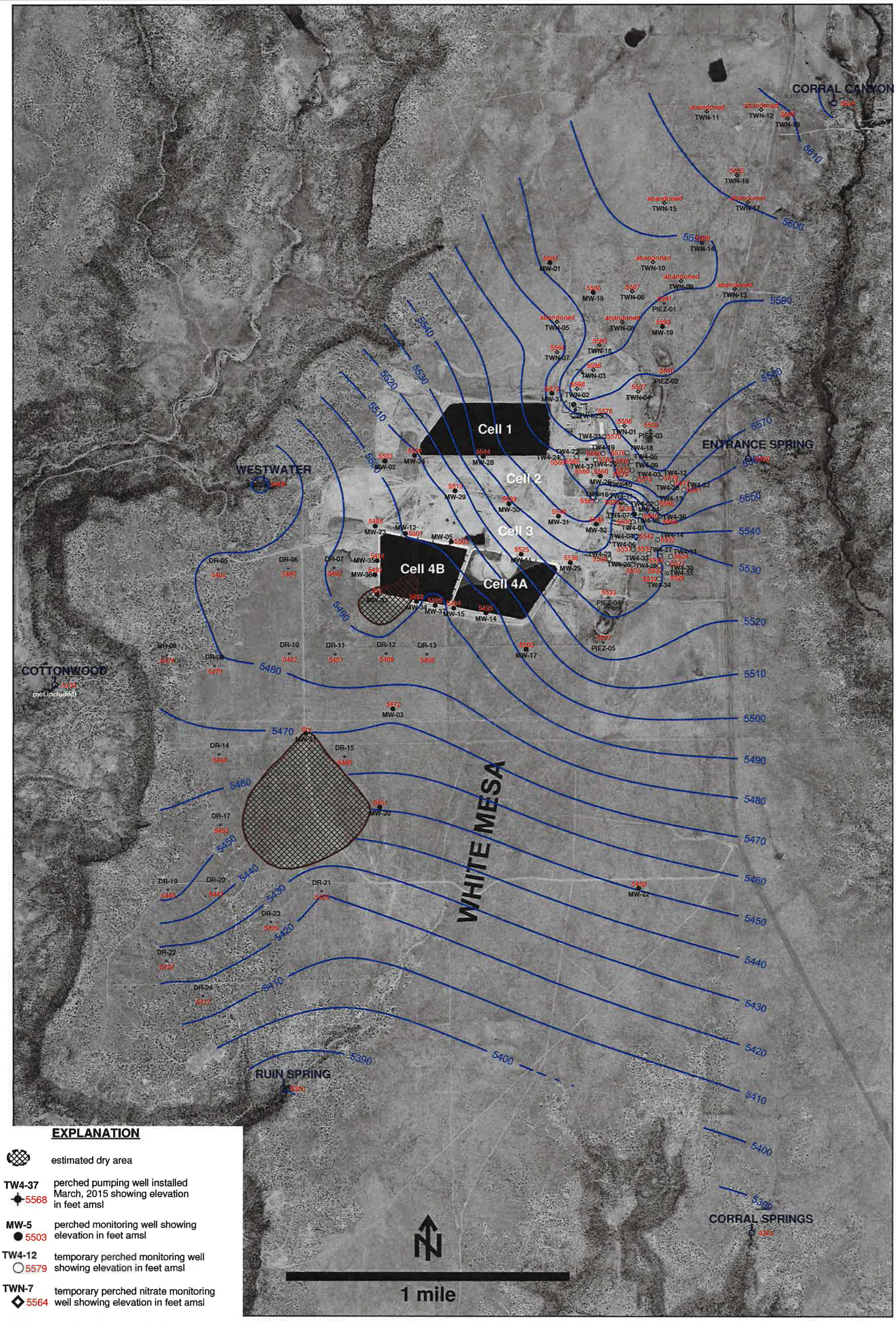
Date 12/28/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1359	MW-4	81.00	Flow	4.4	Yes No
			Meter	878905.77	Yes No
1346	MW-26	63.50	Flow	8.3	Yes No
			Meter	55134.30	Yes No
1257	TW4-19	64.28	Flow	18.2	Yes No
			Meter	263619.40	Yes No
1342	TW4-20	66.16	Flow	7.0	Yes No
			Meter	113105.43	Yes No
1408	TW4-4	74.15	Flow	11.0	Yes No
			Meter	253196.80	Yes No
1320	TWN-2	30.80	Flow	18.8	Yes No
			Meter	562181.20	Yes No
1334	TW4-22	58.31	Flow	18.0	Yes No
			Meter	283545.40	Yes No
1328	TW4-24	63.62	Flow	16.0	Yes No
			Meter	2028005.70	Yes No
1315	TW4-25	64.35	Flow	15.2	Yes No
			Meter	1404981.60	Yes No
1404	TW4-1	92.25	Flow	15.0	Yes No
			Meter	92975.40	Yes No
1355	TW4-2	81.45	Flow	17.0	Yes No
			Meter	89543.30	Yes No
1351	TW4-11	92.86	Flow	16.6	Yes No
			Meter	22836.70	Yes No
1310	TW4-21	67.65	Flow	16.4	Yes No
			Meter	290803.97	Yes No
1337	TW4-37	61.50	Flow	17.0	Yes No
			Meter	259007.40	Yes No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.



EXPLANATION

estimated dry area

TW4-37 5568 — perched pumping well installed March, 2015 showing elevation in feet amsl

MW-5 5503 — perched monitoring well showing elevation in feet amsl

TW4-12 5579 — temporary perched monitoring well showing elevation in feet amsl

TWN-7 5564 — temporary perched nitrate monitoring well showing elevation in feet amsl

PIEZ-1 5591 — perched piezometer showing elevation in feet amsl

TW4-35 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl

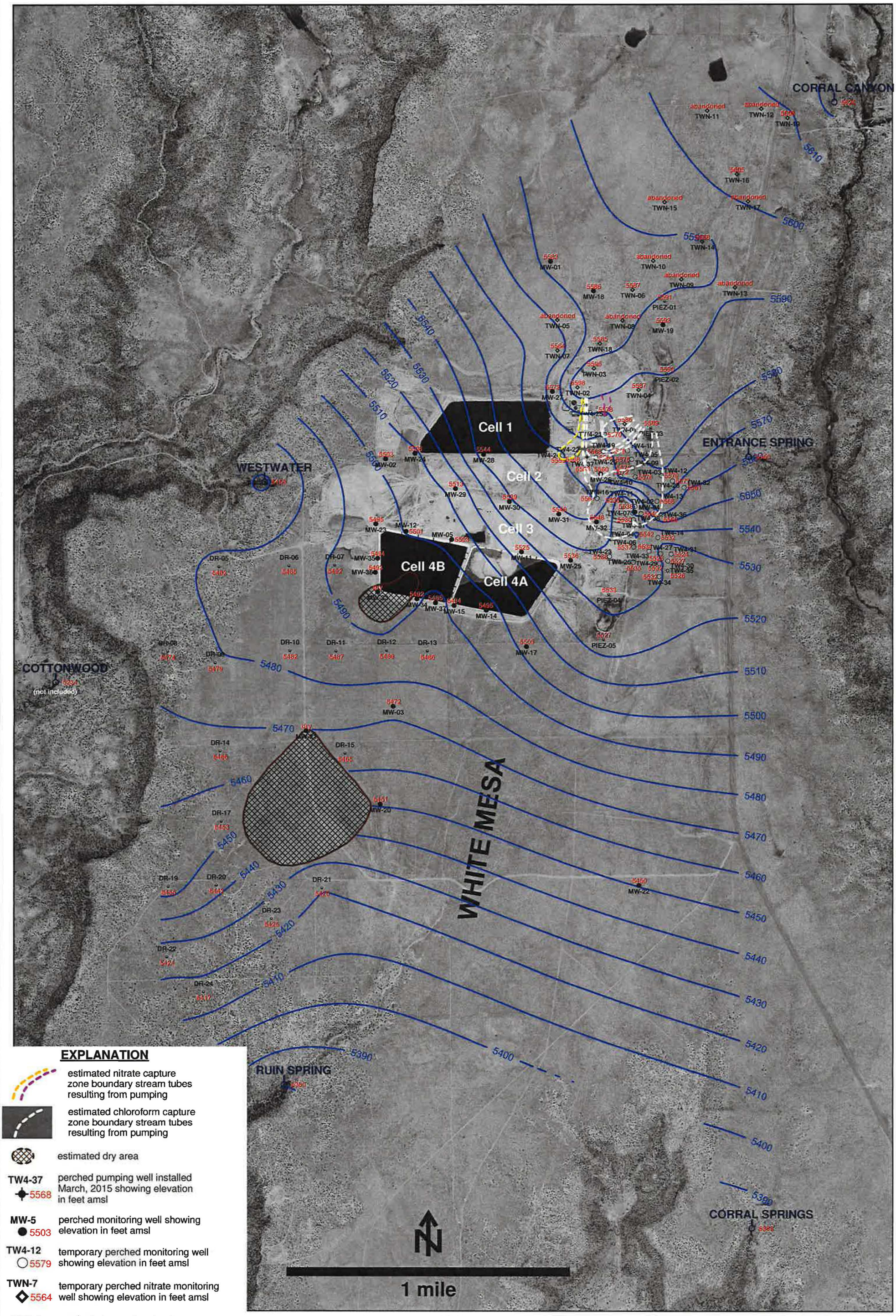
RUIN SPRING 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2015 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb16/WL/Uwl1215.srf	C-1



EXPLANATION

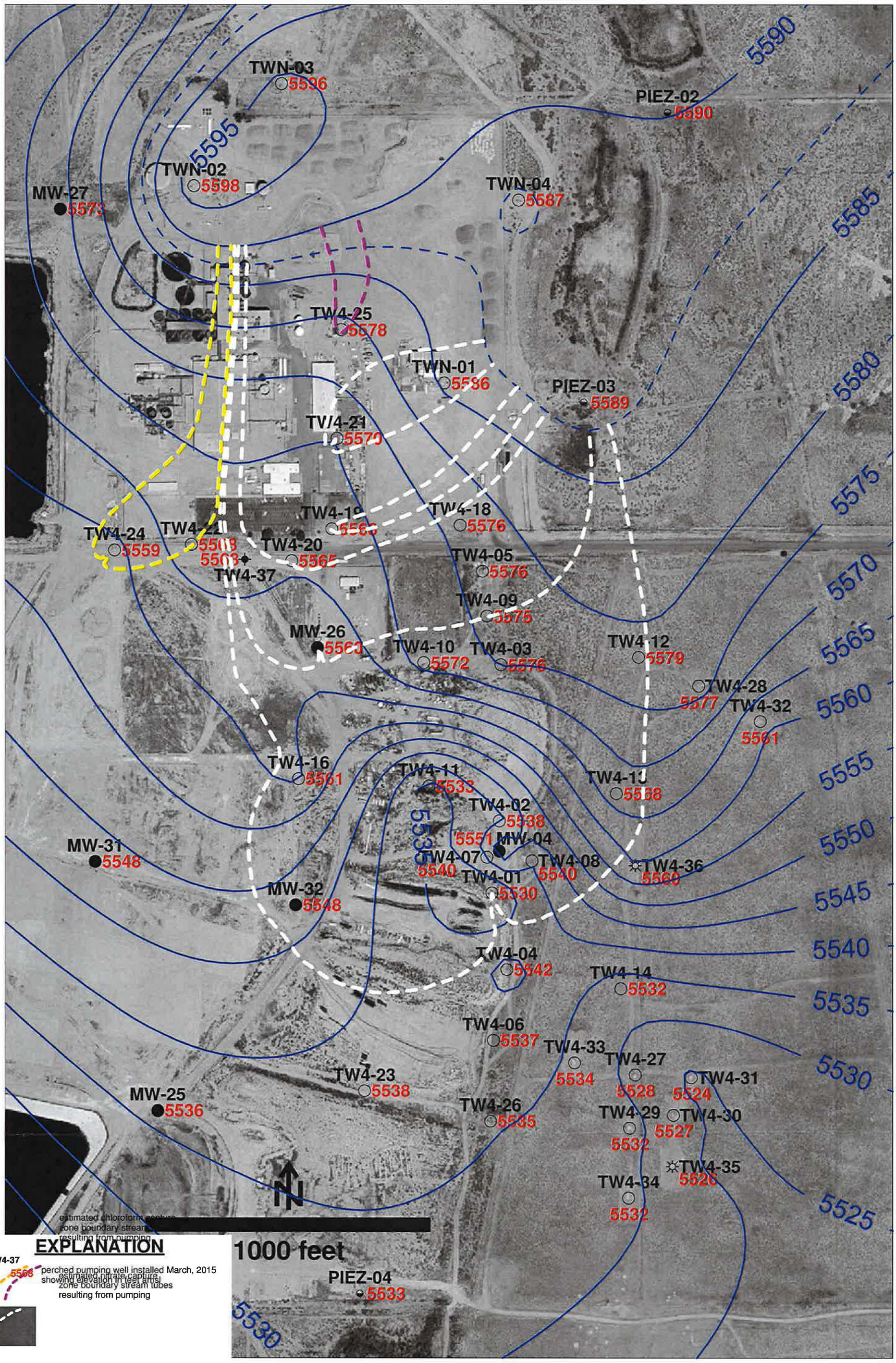
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated chloroform capture zone boundary stream tubes resulting from pumping
- estimated dry area
- **TW4-37** 5568 — perched pumping well installed March, 2015 showing elevation in feet amsl
- **MW-5** 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5579 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5591 — perched piezometer showing elevation in feet amsl
- **TW4-35** 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2015 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/Feb16/nitrate/Uwl1115ntcz2.srf	C-2



estimated chloroform capture zone boundary stream tubes resulting from pumping

EXPLANATION

TW4-37 5566 — perched pumping well installed March, 2015 showing elevation in feet amsl; estimated nitrate capture zone boundary stream tubes resulting from pumping

MW-32 5548 — perched monitoring well showing elevation in feet amsl

TW4-7 5540 — temporary perched monitoring well showing elevation in feet amsl

PIEZ-2 5590 — perched piezometer showing elevation in feet amsl

TW4-35 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

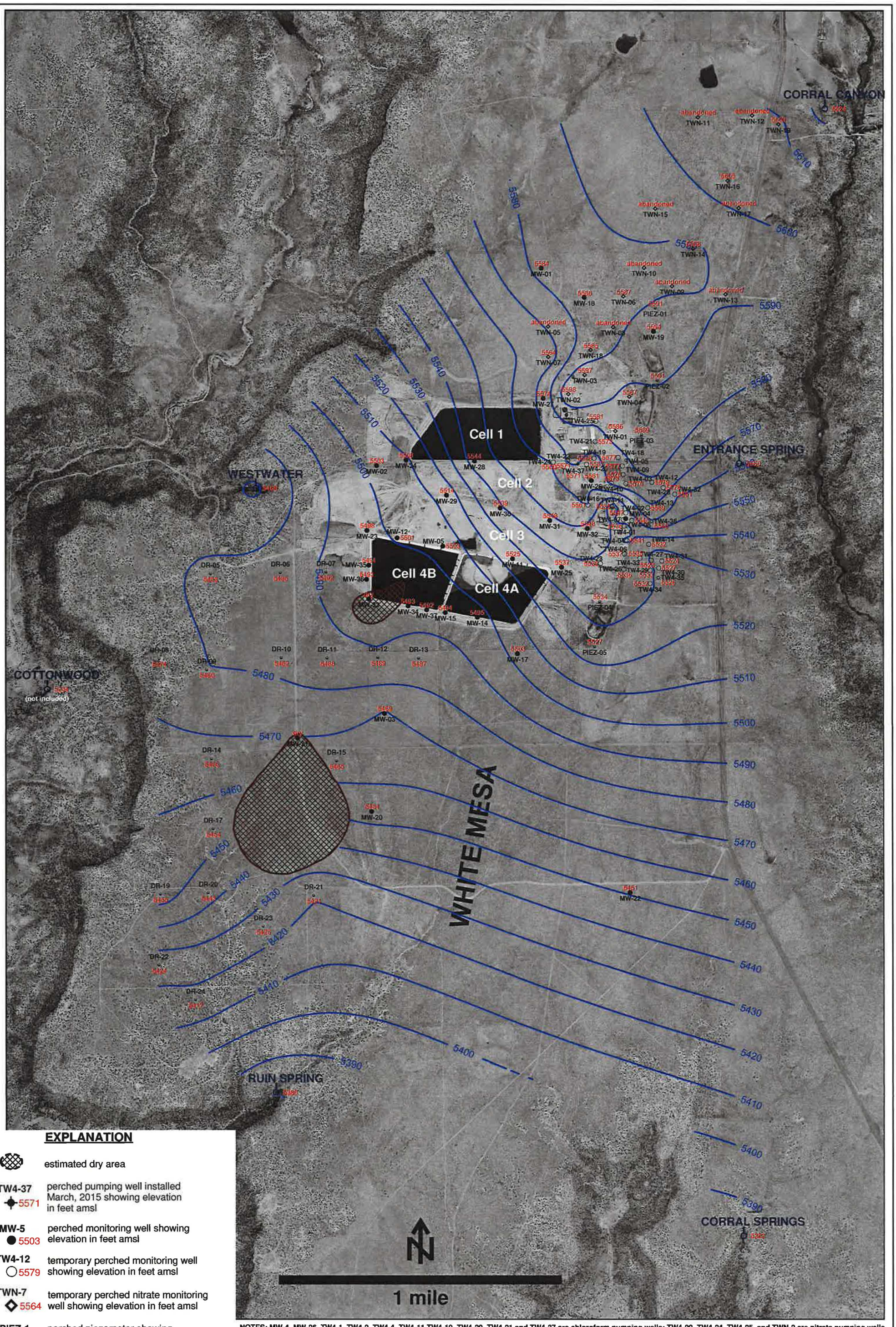
HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2015 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/ Feb16/nitrate/Uwl1115ntcz.srf	C-3

Tab D

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

estimated dry area

TW4-37 5571 — perched pumping well installed March, 2015 showing elevation in feet amsl

MW-5 5503 — perched monitoring well showing elevation in feet amsl

TW4-12 5579 — temporary perched monitoring well showing elevation in feet amsl

TWN-7 5564 — temporary perched nitrate monitoring well showing elevation in feet amsl

PIEZ-1 5591 — perched piezometer showing elevation in feet amsl

TW4-35 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl

RUIN SPRING 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

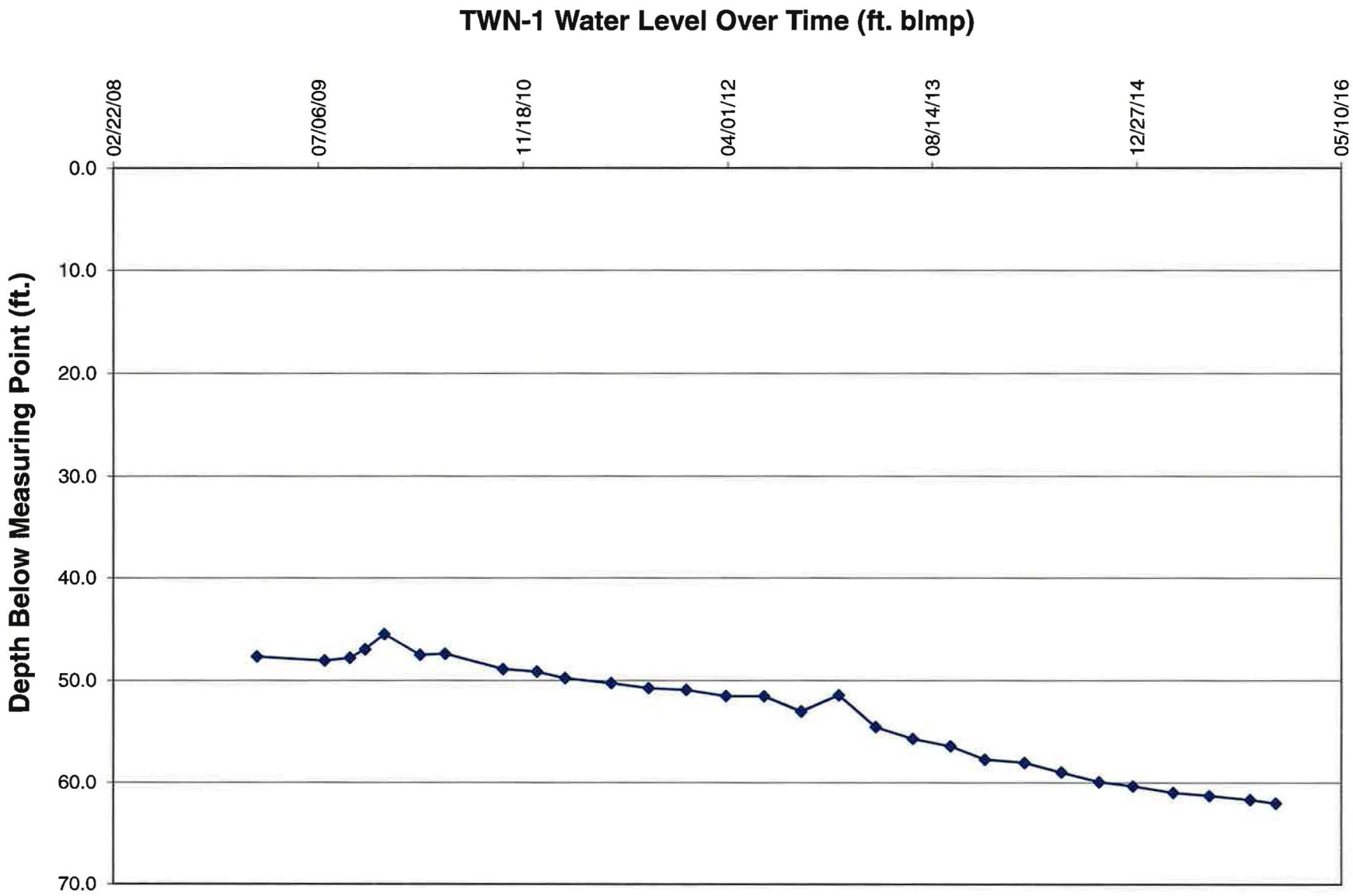
HYDRO GEO CHEM, INC.

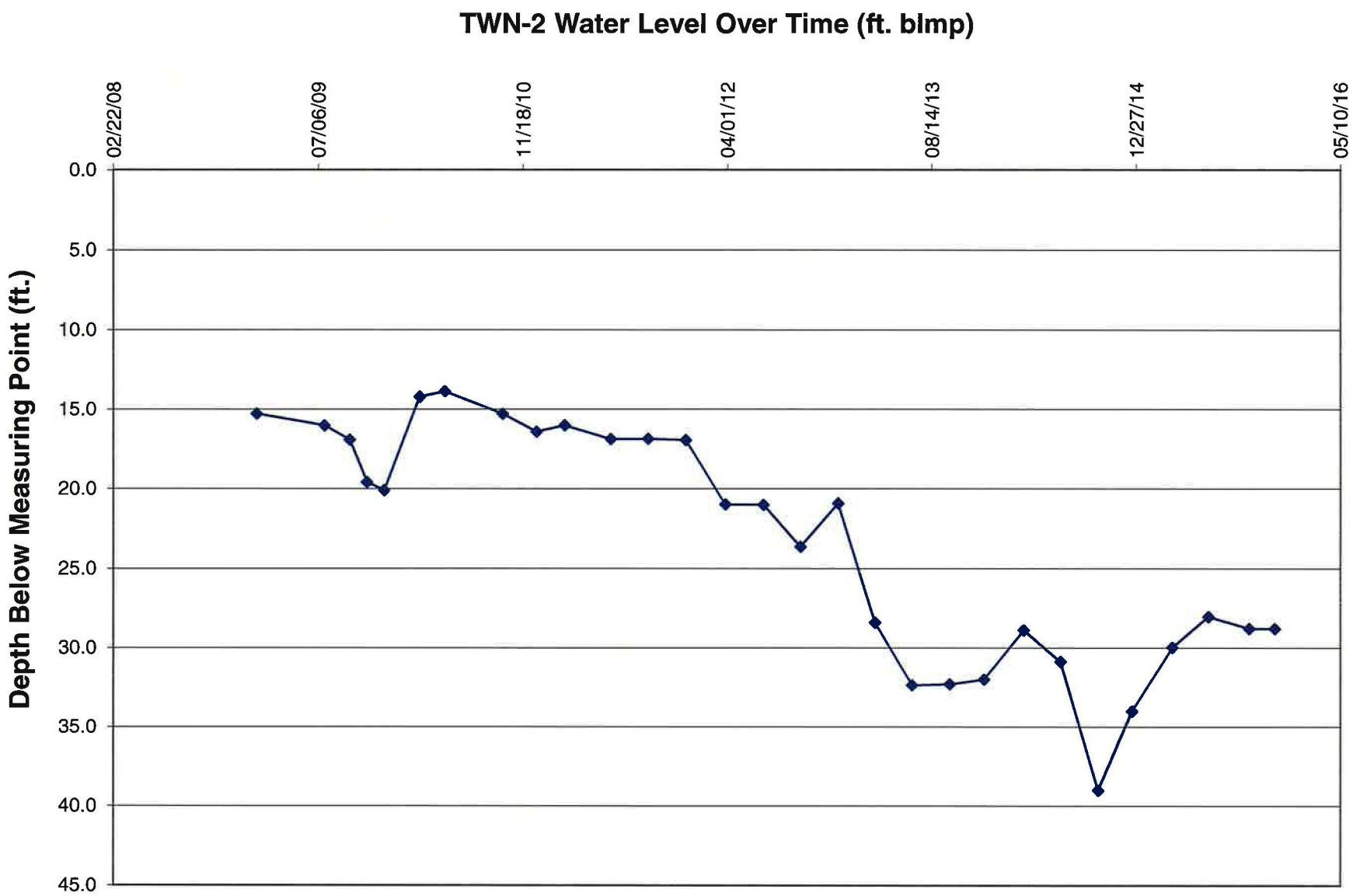
KRIGED 3rd QUARTER, 2015 WATER LEVELS WHITE MESA SITE

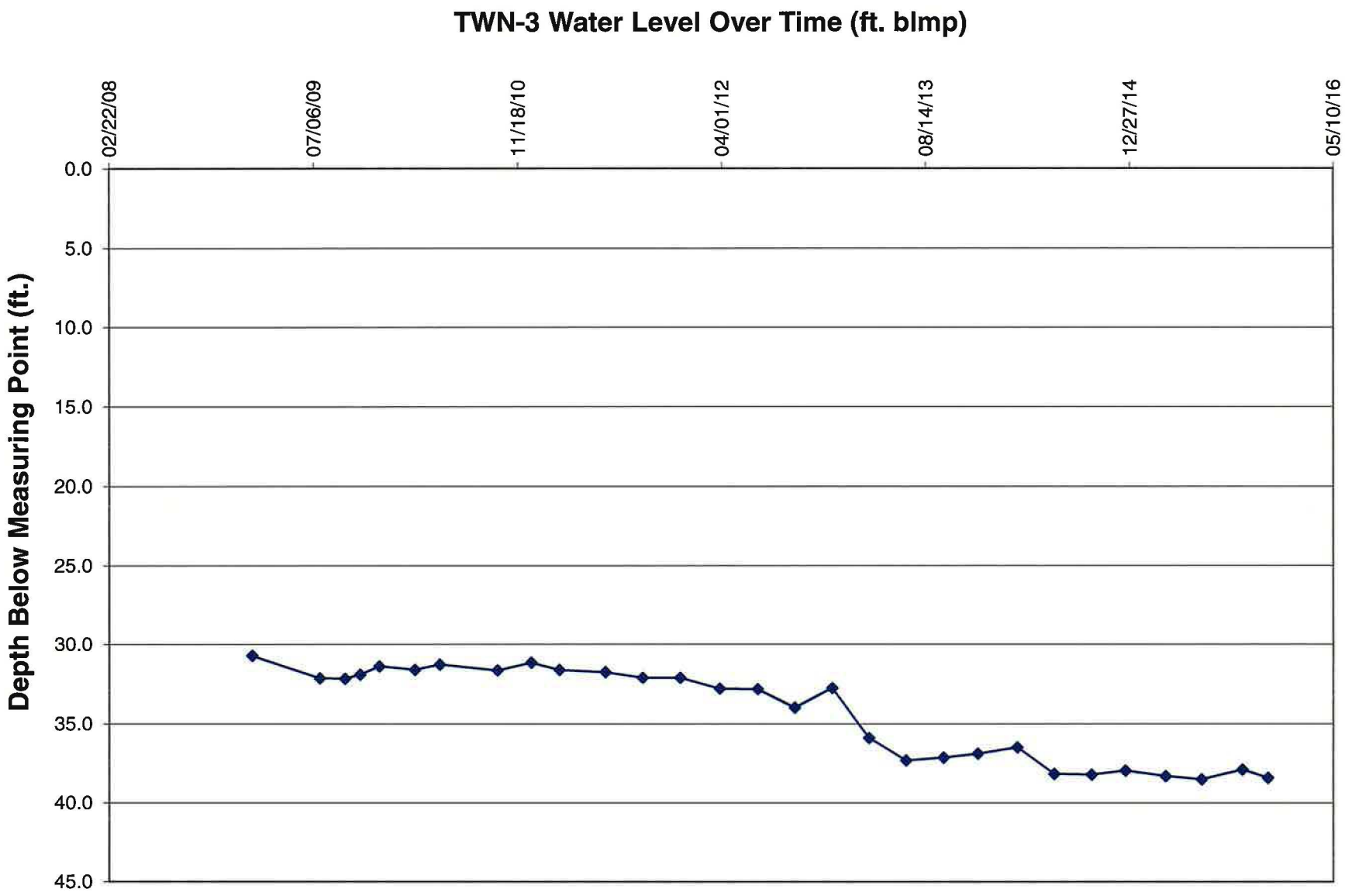
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov15/WL/Uwl0915.srf	D-1

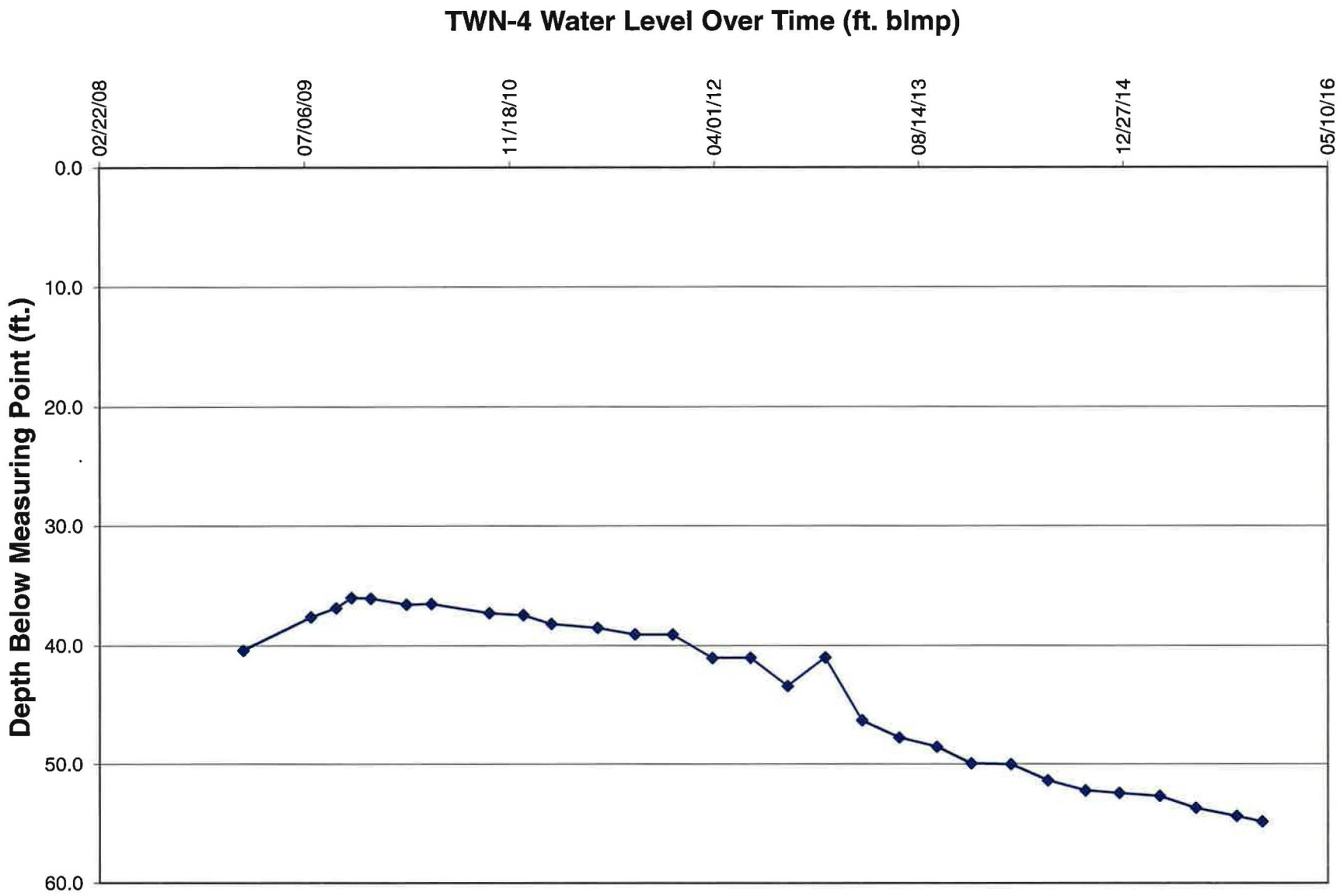
Tab E

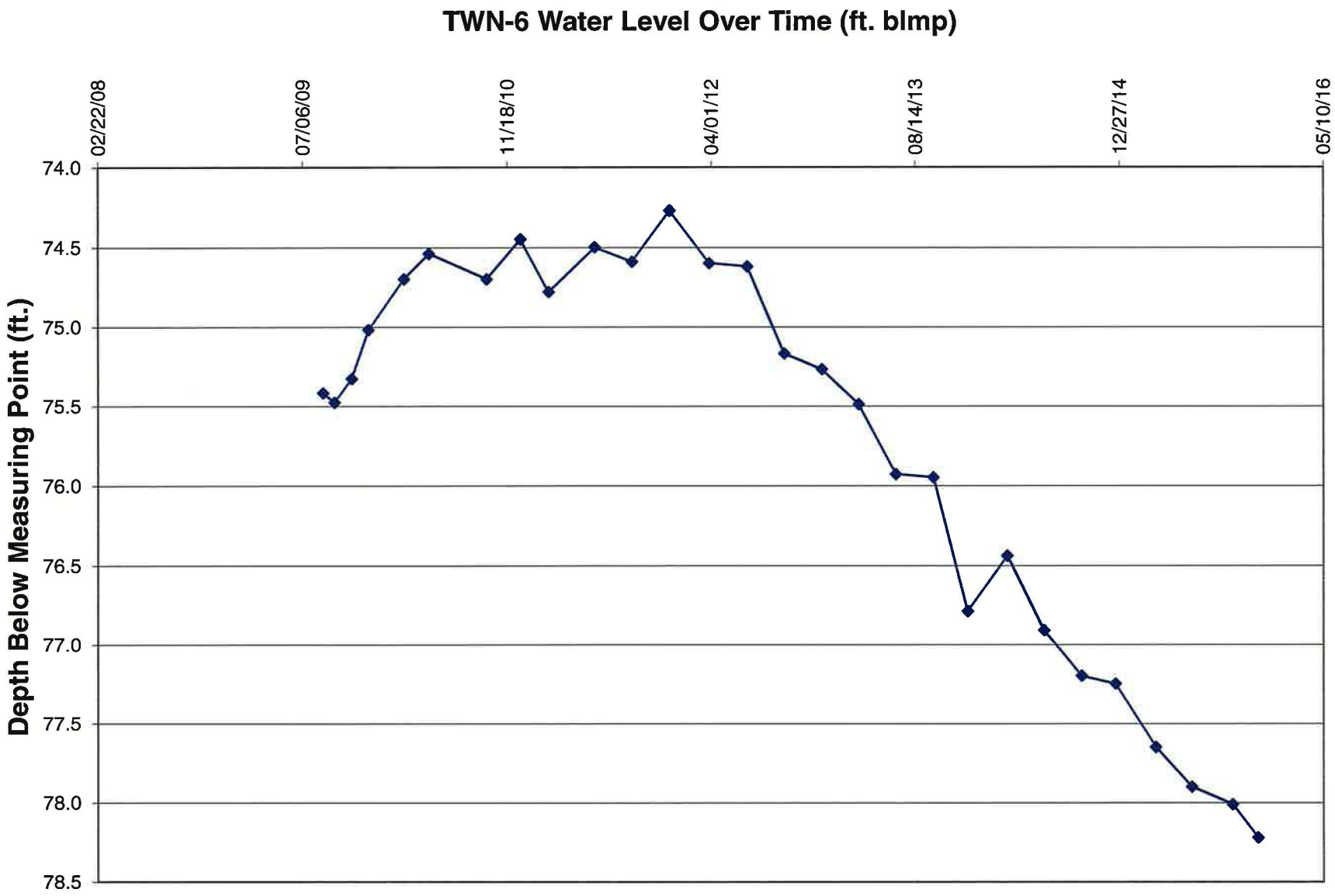
Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

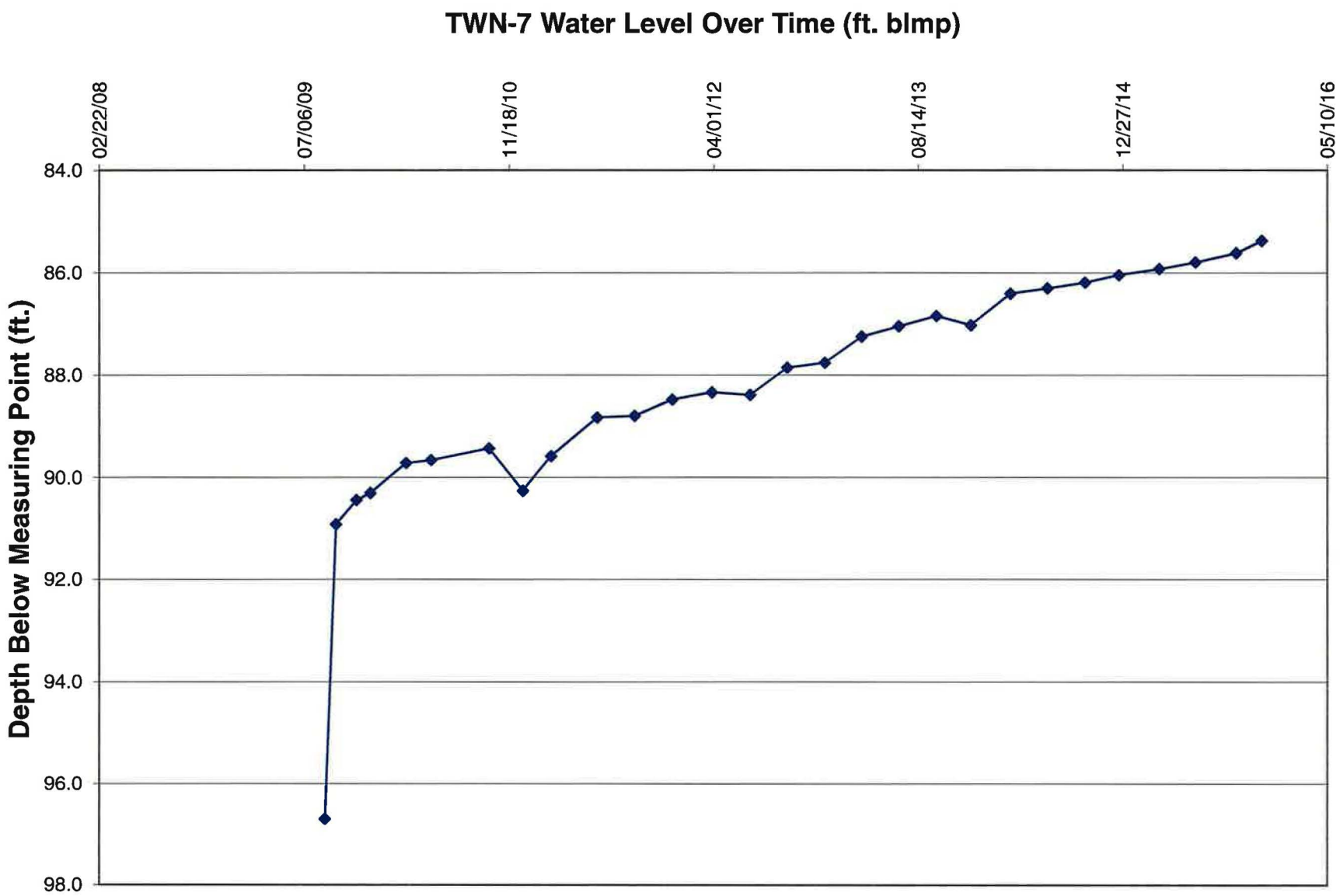

TWN-1 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

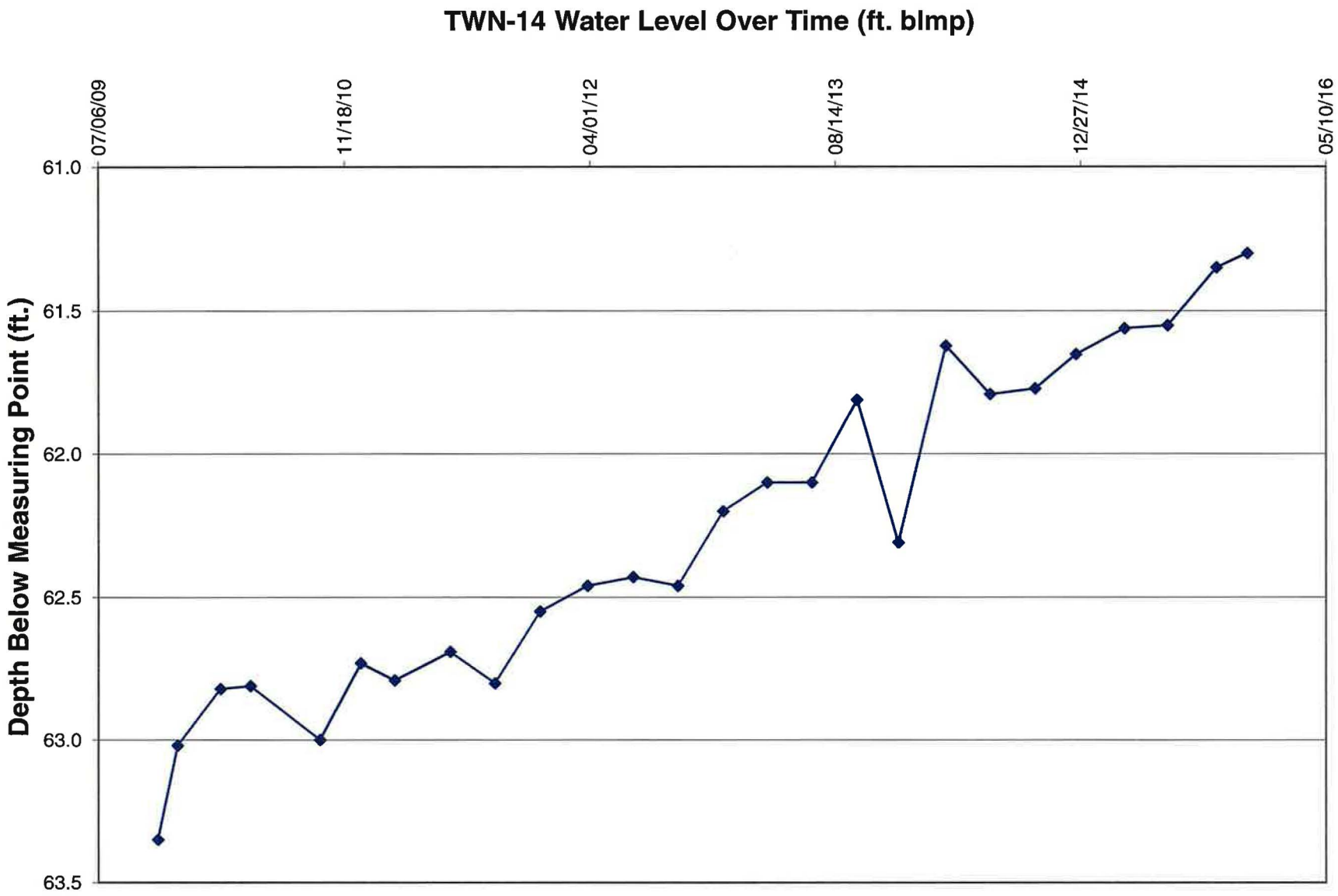

TWN-2 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

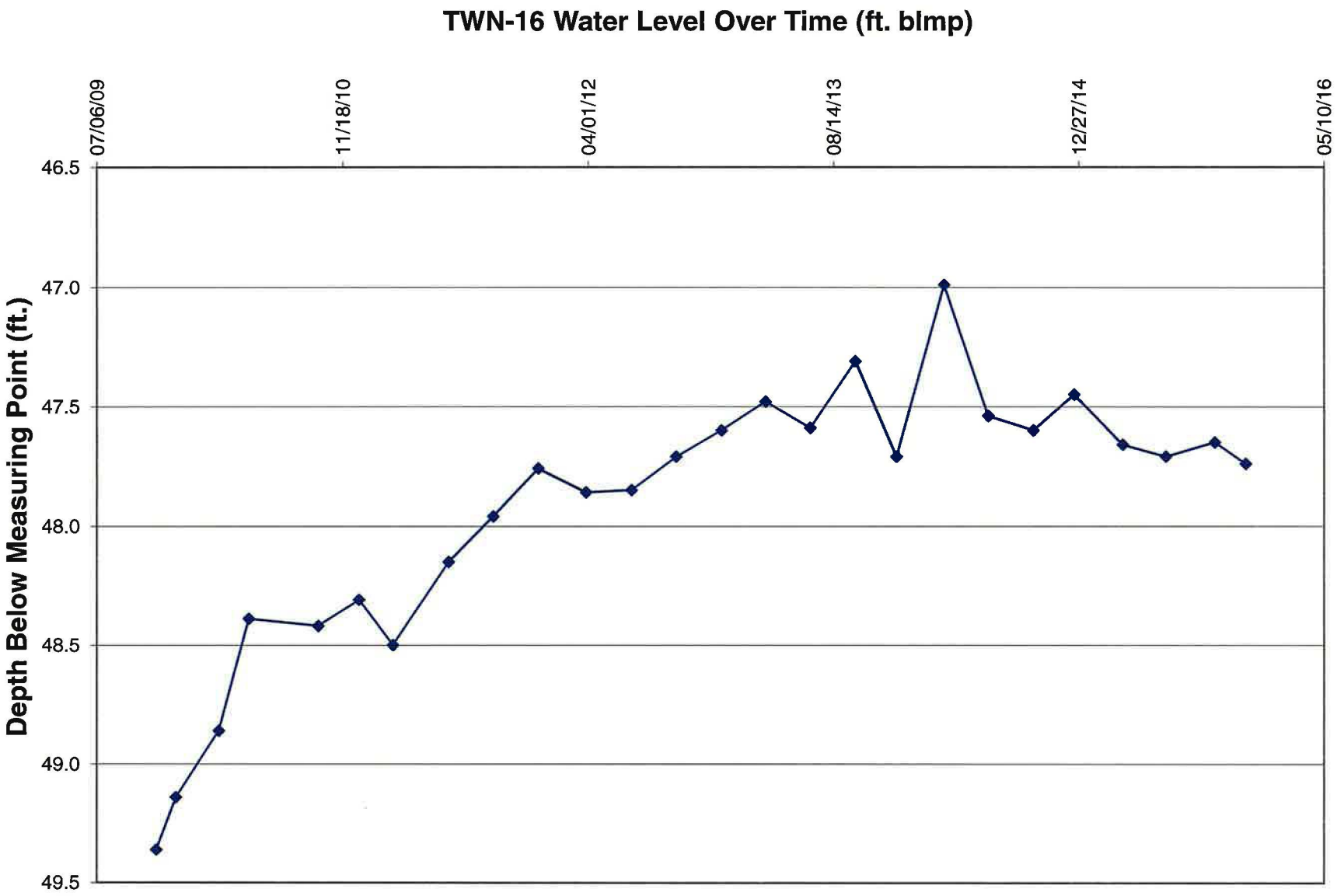

TWN-3 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

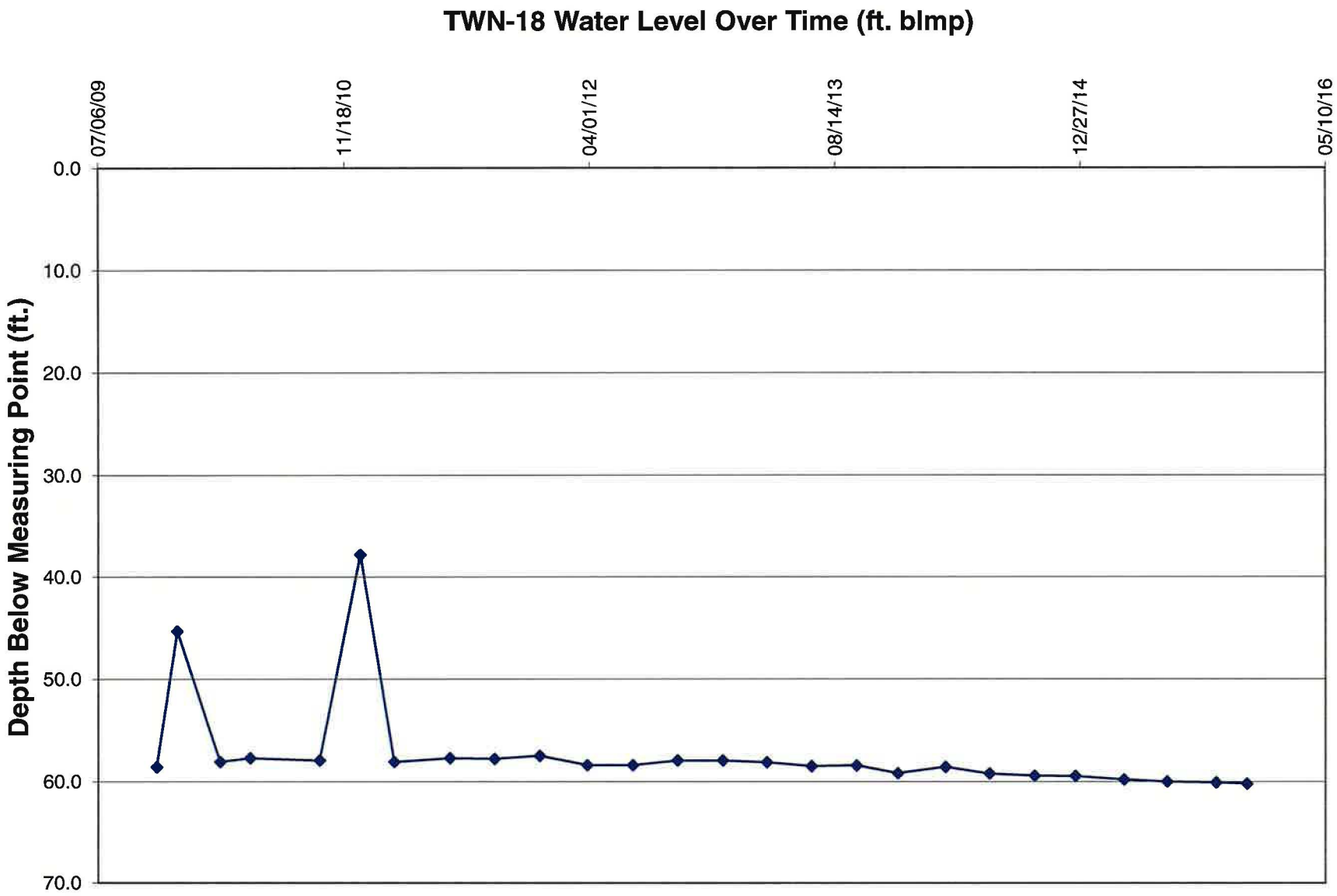

TWN-4 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

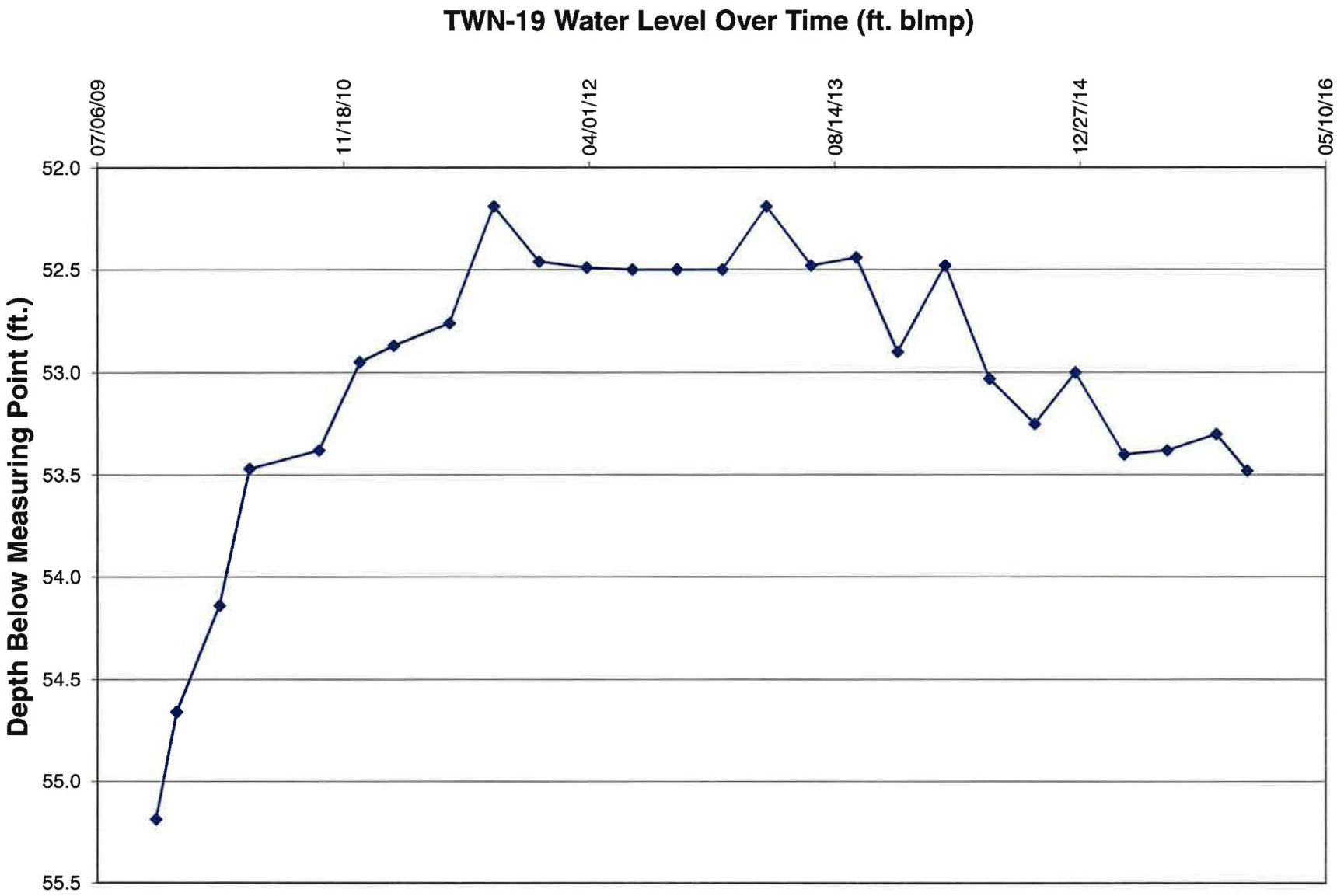

TWN-6 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
74.0
74.5
75.0
75.5
76.0
76.5
77.0
77.5
78.0
78.5
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

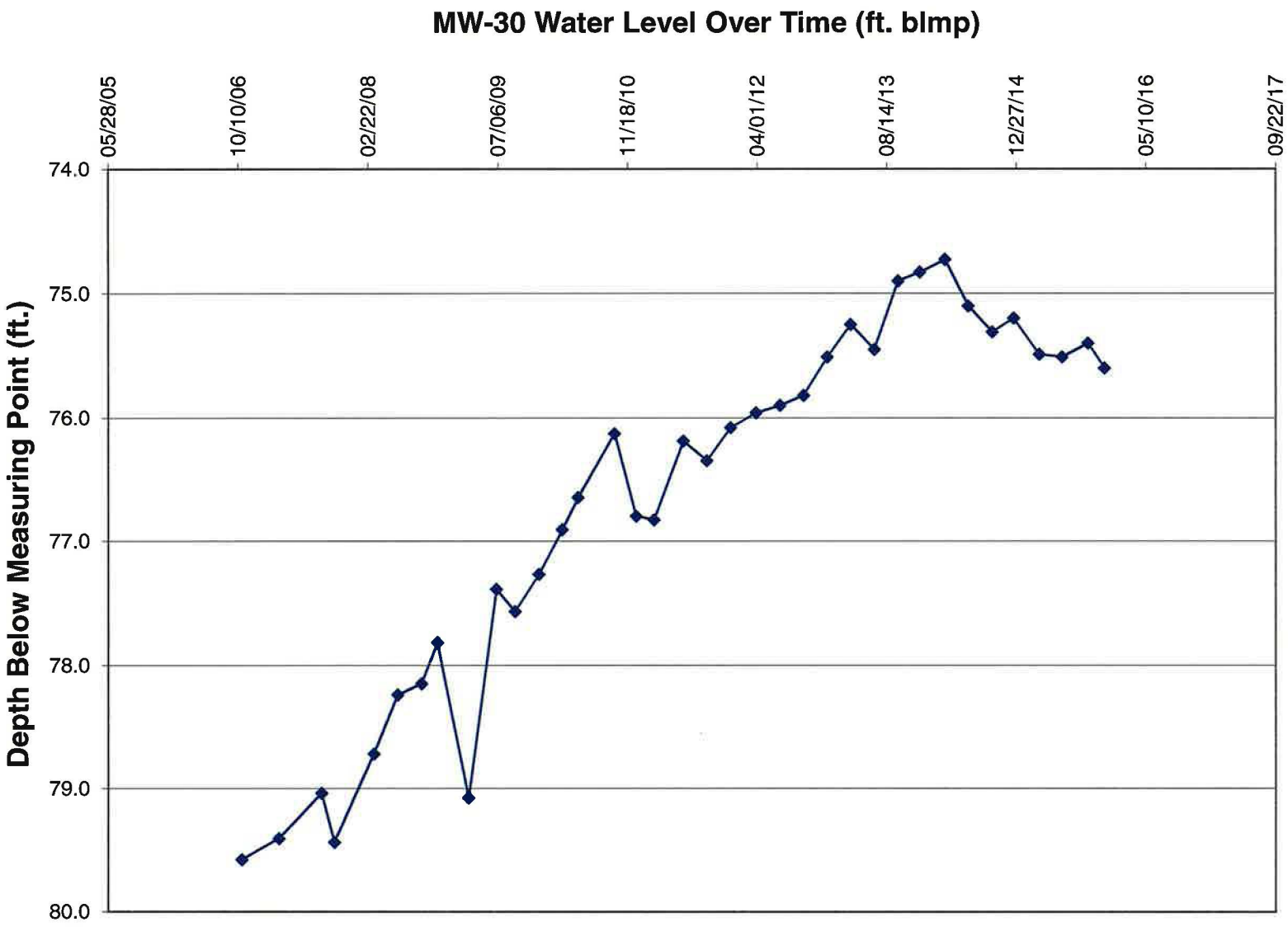

TWN-7 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
84.0
86.0
88.0
90.0
92.0
94.0
96.0
98.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

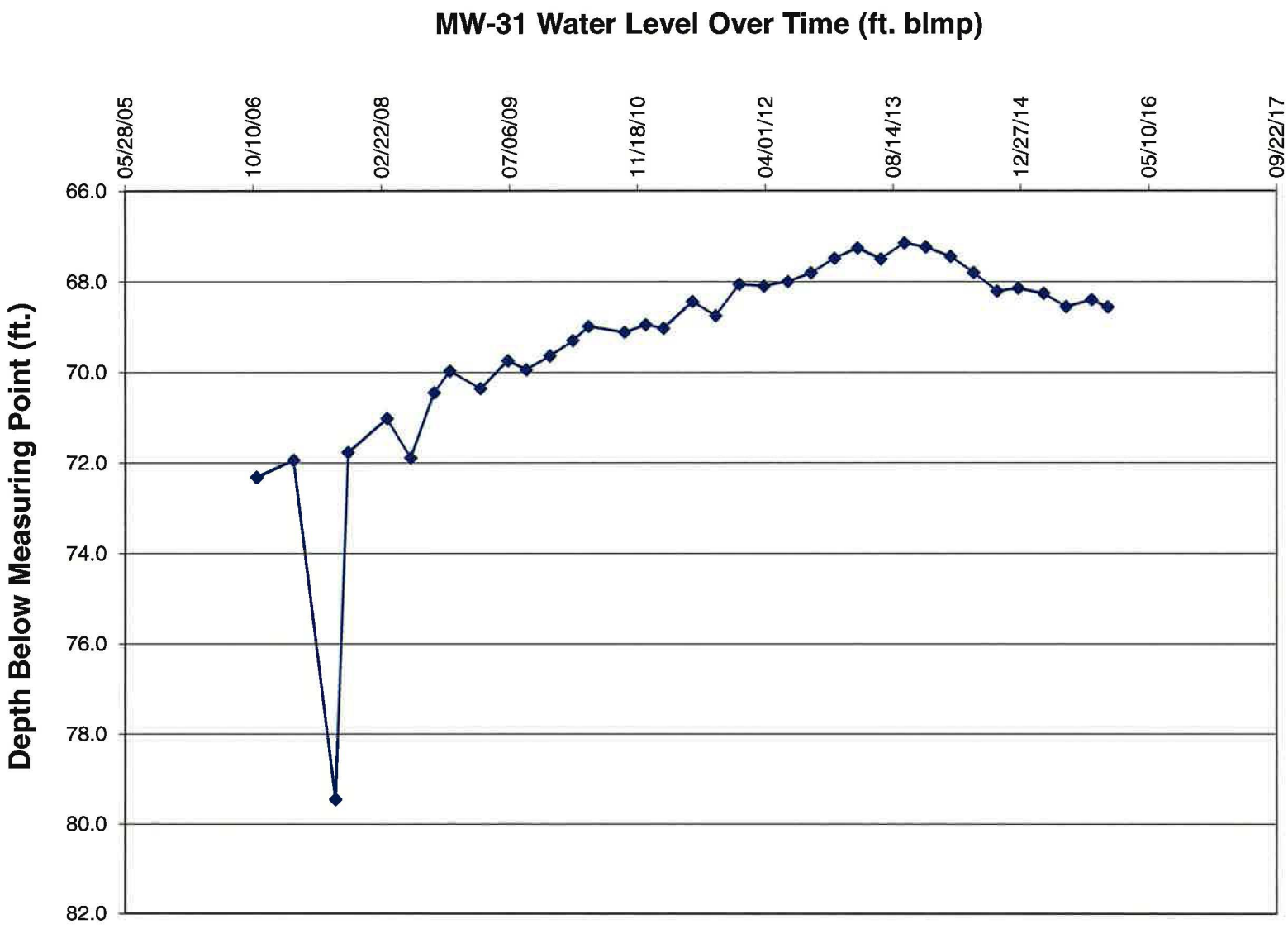

TWN-14 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
61.0
61.5
62.0
62.5
63.0
63.5
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-16 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
46.5
47.0
47.5
48.0
48.5
49.0
49.5
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-18 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-19 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
52.0
52.5
53.0
53.5
54.0
54.5
55.0
55.5
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


MW-30 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
74.0
75.0
76.0
77.0
78.0
79.0
80.0
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16
09/22/17


MW-31 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
82.0
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16
09/22/17

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	
5,589.09				06/25/14	59.00	57.87	
5,588.15				09/25/14	59.94	58.81	
5,587.74				12/17/14	60.35	59.22	
5,587.09				03/26/15	61.00	59.87	
5,586.79				06/22/15	61.30	60.17	
5,586.39				09/30/15	61.70	60.57	
5,586.05				12/02/15	62.04	60.91	

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	28.90	27.96	
5,595.80				06/25/14	30.89	29.95	
5,587.67				09/25/14	39.02	38.08	
5,592.66				12/17/14	34.03	33.09	
5,596.71				03/26/15	29.98	29.04	
5,598.64				06/22/15	28.05	27.11	
5,597.89				09/30/15	28.80	27.86	
5,597.89				12/02/15	28.80	27.86	

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	
5,596.34				06/25/14	38.16	37.30	
5,596.30				09/25/14	38.20	37.34	
5,596.55				12/17/14	37.95	37.09	
5,596.20				03/26/15	38.30	37.44	
5,596.00				06/22/15	38.50	37.64	
5,596.61				09/30/15	37.89	37.03	
5,596.09				12/02/15	38.41	37.55	

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	
5,590.49				06/25/14	51.38	50.55	
5,589.64				09/25/14	52.23	51.40	
5,589.42				12/17/14	52.45	51.62	
5,589.17				03/26/15	52.70	51.87	
5,588.17				06/22/15	53.70	52.87	
5,587.48				09/30/15	54.39	53.56	
5,587.02				12/02/15	54.85	54.02	

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	
5,588.03				06/25/14	76.91	75.00	
5,587.74				09/25/14	77.20	75.29	
5,587.69				12/17/14	77.25	75.34	
5,587.29				03/26/15	77.65	75.74	
5,587.04				06/22/15	77.90	75.99	
5,586.93				09/30/15	78.01	76.10	
5,586.72				12/02/15	78.22	76.31	

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	
5,562.95				06/25/14	86.31	84.44	
5,563.06				09/25/14	86.20	84.33	
5,563.21				12/17/14	86.05	84.18	
5,563.33				03/26/15	85.93	84.06	
5,563.46				06/22/15	85.80	83.93	
5,563.64				09/30/15	85.62	83.75	
5,563.88				12/02/15	85.38	83.51	

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	
5,587.74				06/25/14	61.79	60.06	
5,587.76				09/25/14	61.77	60.04	
5,587.88				12/17/14	61.65	59.92	
5,587.97				03/26/15	61.56	59.83	
5,587.98				06/22/15	61.55	59.82	
5,588.18				09/30/15	61.35	59.62	
5,588.23				12/02/15	61.30	59.57	

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	
5,605.16				06/25/14	47.54	45.91	
5,605.10				09/25/14	47.60	45.97	
5,605.25				12/17/14	47.45	45.82	
5,605.04				03/26/15	47.66	46.03	
5,604.99				06/22/15	47.71	46.08	
5,605.05				09/30/15	47.65	46.02	
5,604.96				12/02/15	47.74	46.11	

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	
5,586.23				06/25/14	59.22	57.72	
5,586.02				09/25/14	59.43	57.93	
5,585.99				12/17/14	59.46	57.96	
5,585.66				03/26/15	59.79	58.29	
5,585.45				06/22/15	60.00	58.50	
5,585.37				09/30/15	60.08	58.58	
5,585.24				12/02/15	60.21	58.71	

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	
5,608.33				06/25/14	53.03	51.26	
5,608.11				09/25/14	53.25	51.48	
5,608.36				12/17/14	53.00	51.23	
5,607.96				03/26/15	53.40	51.63	
5,607.98				06/22/15	53.38	51.61	
5,608.06				09/30/15	53.30	51.53	
5,607.88				12/02/15	53.48	51.71	

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	
5539.40				6/25/2014	75.10	73.94	
5539.19				9/25/2014	75.31	74.15	
5539.30				12/17/2014	75.20	74.04	
5539.01				3/26/2015	75.49	74.33	
5538.99				6/22/2015	75.51	74.35	
5539.10				9/30/2015	75.40	74.24	
5538.90				12/2/2015	75.60	74.44	

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	
5548.60				6/25/2014	67.80	66.66	
5548.19				9/25/2014	68.21	67.07	
5548.25				12/17/2014	68.15	67.01	
5548.14				3/26/2015	68.26	67.12	
5547.85				6/22/2015	68.55	67.41	
5548.00				9/30/2015	68.40	67.26	
5547.84				12/2/2015	68.56	67.42	

Tab G

Laboratory Analytical Reports

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-010
Client Sample ID: PIEZ-01_10142015
Collection Date: 10/14/2015 1431h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1712h	E300.0	10.0	**54.4**	
Nitrate/Nitrite (as N)	mg/L		10/28/2015 1024h	E353.2	0.100	**6.17**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-011
Client Sample ID: PIEZ-02_10142015
Collection Date: 10/14/2015 1408h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1746h	E300.0	2.00	**13.3**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1124h	E353.2	0.100	**0.692**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-012
Client Sample ID: PIEZ-03_10142015
Collection Date: 10/14/2015 1418h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1729h	E300.0	10.0	**39.5**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1139h	E353.2	0.100	**2.24**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-004
Client Sample ID: TWN-01_10132015
Collection Date: 10/13/2015 1411h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1458h	E300.0	10.0	**27.7**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1058h	E353.2	0.100	**1.35**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-007
Client Sample ID: TWN-02_10142015
Collection Date: 10/14/2015 1445h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1605h	E300.0	10.0	**74.9**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1109h	E353.2	0.500	**44.9**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-006
Client Sample ID: TWN-03_10142015
Collection Date: 10/14/2015 1400h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1350h	E300.0	100	**129**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1107h	E353.2	0.500	**16.3**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-005
Client Sample ID: TWN-04_10132015
Collection Date: 10/13/2015 1445h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1514h	E300.0	10.0	**28.4**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1106h	E353.2	0.100	**1.58**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-002
Client Sample ID: TWN-07_10142015
Collection Date: 10/14/2015 1347h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1820h	E300.0	1.00	**5.84**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1055h	E353.2	0.100	**0.672**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-001
Client Sample ID: TWN-07R_10132015
Collection Date: 10/13/2015 1250h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1803h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1051h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-003
Client Sample ID: TWN-18_10132015
Collection Date: 10/13/2015 1340h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1407h	E300.0	10.0	**69.0**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1057h	E353.2	0.100	**0.668**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Sample ID: 1510489-019
Client Sample ID: TW4-22_10192015
Collection Date: 10/19/2015 1426h
Received Date: 10/23/2015 1020h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/29/2015 1336h	E300.0	100	**567**	
Nitrate/Nitrite (as N)	mg/L		10/29/2015 1457h	E353.2	10.0	**56.1**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Sample ID: 1510489-011
Client Sample ID: TW4-24_10192015
Collection Date: 10/19/2015 1414h
Received Date: 10/23/2015 1020h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/29/2015 024h	E300.0	100	**909**	
Nitrate/Nitrite (as N)	mg/L		10/29/2015 1452h	E353.2	2.00	**29.6**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Sample ID: 1510489-010
Client Sample ID: TW4-25_10212015
Collection Date: 10/21/2015 842h
Received Date: 10/23/2015 1020h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/29/2015 502h	E300.0	10.0	**93.7**	
Nitrate/Nitrite (as N)	mg/L		10/29/2015 1427h	E353.2	0.100	**1.78**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-009
Client Sample ID: TWN-60_10152015
Collection Date: 10/15/2015 1300h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1837h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1111h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Sample ID: 1510626-018
Client Sample ID: TW4-60_10292015
Collection Date: 10/29/2015 900h
Received Date: 10/30/2015 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/4/2015 746h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		11/7/2015 1742h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Sample ID: 1510394-008
Client Sample ID: TWN-65_10132015
Collection Date: 10/13/2015 1340h
Received Date: 10/20/2015 1040h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/23/2015 1656h	E300.0	10.0	**68.6**	
Nitrate/Nitrite (as N)	mg/L		10/25/2015 1110h	E353.2	0.100	**0.645**	

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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: 4th Quarter Nitrate 2015

Dear Garrin Palmer: Lab Set ID: 1510394

American West Analytical Laboratories received sample(s) on 10/20/2015 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, Wyoming, 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,

Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2015.10.30 16:50:35 -06'00'

Approved by:
Laboratory Director or designee

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SAMPLE SUMMARY

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Set ID: 1510394
Date Received: 10/20/2015 1040h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510394-001A	TWN-07R_10132015	10/13/2015 1250h	Aqueous	Anions, E300.0
1510394-001B	TWN-07R_10132015	10/13/2015 1250h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-002A	TWN-07_10142015	10/14/2015 1347h	Aqueous	Anions, E300.0
1510394-002B	TWN-07_10142015	10/14/2015 1347h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-003A	TWN-18_10132015	10/13/2015 1340h	Aqueous	Anions, E300.0
1510394-003B	TWN-18_10132015	10/13/2015 1340h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-004A	TWN-01_10132015	10/13/2015 1411h	Aqueous	Anions, E300.0
1510394-004B	TWN-01_10132015	10/13/2015 1411h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-005A	TWN-04_10132015	10/13/2015 1445h	Aqueous	Anions, E300.0
1510394-005B	TWN-04_10132015	10/13/2015 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-006A	TWN-03_10142015	10/14/2015 1400h	Aqueous	Anions, E300.0
1510394-006B	TWN-03_10142015	10/14/2015 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-007A	TWN-02_10142015	10/14/2015 1445h	Aqueous	Anions, E300.0
1510394-007B	TWN-02_10142015	10/14/2015 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-008A	TWN-65_10132015	10/13/2015 1340h	Aqueous	Anions, E300.0
1510394-008B	TWN-65_10132015	10/13/2015 1340h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-009A	TWN-60_10152015	10/15/2015 1300h	Aqueous	Anions, E300.0
1510394-009B	TWN-60_10152015	10/15/2015 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-010A	PIEZ-01_10142015	10/14/2015 1431h	Aqueous	Anions, E300.0
1510394-010B	PIEZ-01_10142015	10/14/2015 1431h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-011A	PIEZ-02_10142015	10/14/2015 1408h	Aqueous	Anions, E300.0
1510394-011B	PIEZ-02_10142015	10/14/2015 1408h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510394-012A	PIEZ-03_10142015	10/14/2015 1418h	Aqueous	Anions, E300.0
1510394-012B	PIEZ-03_10142015	10/14/2015 1418h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Nitrate 2015
Lab Set ID: 1510394

Sample Receipt Information:

Date of Receipt: 10/20/2015
Date(s) of Collection: 10/13-10/15/2015
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody

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

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

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

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

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

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

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1510369-001B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1510574-001G	Nitrate/Nitrite	MS/MSD	Sample matrix interference

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510394
Project: 4th Quarter Nitrate 2015

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: 1510394-010BDUP Date Analyzed: 10/28/2015 1025h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.33	mg/L	E353.2	0.0833	0.100					6.17	2.53	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510394
Project: 4th Quarter Nitrate 2015

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-R84322 Date Analyzed: 10/23/2015 1300h													
Test Code: 300.0-W													
Chloride	4.87	mg/L	E300.0	0.00751	0.100	5.000	0	97.4	90 - 110				
Lab Sample ID: LCS-R84304 Date Analyzed: 10/25/2015 1030h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.916	mg/L	E353.2	0.00833	0.0100	1.000	0	91.6	90 - 110				
Lab Sample ID: LCS-R84312 Date Analyzed: 10/25/2015 1122h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.929	mg/L	E353.2	0.00833	0.0100	1.000	0	92.9	90 - 110				
Lab Sample ID: LCS-R84478 Date Analyzed: 10/28/2015 914h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.974	mg/L	E353.2	0.00833	0.0100	1.000	0	97.4	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510394
Project: 4th Quarter Nitrate 2015

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-R84322 Date Analyzed: 10/23/2015 1243h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R84304 Date Analyzed: 10/25/2015 1028h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R84312 Date Analyzed: 10/25/2015 1121h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R84478 Date Analyzed: 10/28/2015 911h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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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: 1510394
Project: 4th Quarter Nitrate 2015

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: 1510394-003AMS Date Analyzed: 10/23/2015 1424h													
Test Code: 300.0-W													
Chloride	168	mg/L	E300.0	0.150	2.00	100.0	69	98.6	90 - 110				
Lab Sample ID: 1510394-007AMS Date Analyzed: 10/23/2015 1622h													
Test Code: 300.0-W													
Chloride	173	mg/L	E300.0	0.150	2.00	100.0	74.9	98.4	90 - 110				
Lab Sample ID: 1510394-001BMS Date Analyzed: 10/25/2015 1053h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.898	mg/L	E353.2	0.00833	0.0100	1.000	0	89.8	90 - 110				§
Lab Sample ID: 1510369-001BMS Date Analyzed: 10/25/2015 1131h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.50	mg/L	E353.2	0.00833	0.0100	1.000	0.666	82.9	90 - 110				'
Lab Sample ID: 1510574-001GMS NO3 Date Analyzed: 10/28/2015 916h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.556	mg/L	E353.2	0.00833	0.0100	1.000	0	55.6	90 - 110				'

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.
' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510394
Project: 4th Quarter Nitrate 2015

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: 1510394-003AMSD Date Analyzed: 10/23/2015 1441h													
Test Code: 300.0-W													
Chloride	166	mg/L	E300.0	0.150	2.00	100.0	69	97.5	90 - 110	168	0.645	20	
Lab Sample ID: 1510394-007AMSD Date Analyzed: 10/23/2015 1639h													
Test Code: 300.0-W													
Chloride	172	mg/L	E300.0	0.150	2.00	100.0	74.9	97.2	90 - 110	173	0.705	20	
Lab Sample ID: 1510394-001BMSD Date Analyzed: 10/25/2015 1054h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.929	mg/L	E353.2	0.00833	0.0100	1.000	0	92.9	90 - 110	0.898	3.32	10	
Lab Sample ID: 1510369-001BMSD Date Analyzed: 10/25/2015 1132h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.52	mg/L	E353.2	0.00833	0.0100	1.000	0.666	85.8	90 - 110	1.5	1.92	10	[1]
Lab Sample ID: 1510574-001GMSD NO3 Date Analyzed: 10/28/2015 918h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.577	mg/L	E353.2	0.00833	0.0100	1.000	0	57.7	90 - 110	0.556	3.76	10	[1]

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

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1510394**

Client: Energy Fuels Resources, Inc.

Due Date: 10/29/2015

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

Project: **4th Quarter Nitrate 2015** **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	
1510394-001A	**TWN-07R_10132015**	10/13/2015 1250h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-002A	**TWN-07_10142015**	10/14/2015 1347h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-003A	**TWN-18_10132015**	10/13/2015 1340h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-004A	**TWN-01_10132015**	10/13/2015 1411h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-005A	**TWN-04_10132015**	10/13/2015 1445h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-006A	**TWN-03_10142015**	10/14/2015 1400h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-007A	**TWN-02_10142015**	10/14/2015 1445h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-008A	**TWN-65_10132015**	10/13/2015 1340h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1

Printed: 10/20/2015 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1510394**

Client: Energy Fuels Resources, Inc.

Due Date: 10/29/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1510394-008B	**TWN-65_10132015**	10/13/2015 1340h	10/20/2015 1040h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous		df - no2/no3	1
1510394-009A	**TWN-60_10152015**	10/15/2015 1300h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-010A	**PIEZ-01_10142015**	10/14/2015 1431h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-011A	**PIEZ-02_10142015**	10/14/2015 1408h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1510394-012A	**PIEZ-03_10142015**	10/14/2015 1418h	10/20/2015 1040h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1510394-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	

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CHAIN OF CUSTODY

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

1510394
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: 4TH QUARTER NITRATE 2015
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_10132015	10/13/2015	1250	2	W	X	X	
2	TWN-07_10142015	10/14/2015	1347	2	W	X	X	
3	TWN-18_10132015	10/13/2015	1340	2	W	X	X	
4	TWN-01_10132015	10/13/2015	1411	2	W	X	X	
5	TWN-04_10132015	10/13/2015	1445	2	W	X	X	
6	TWN-03_10142015	10/14/2015	1400	2	W	X	X	
7	TWN-02_10142015	10/14/2015	1445	2	W	X	X	
8	TWN-65_10132015	10/13/2015	1340	2	W	X	X	
9	TWN-60_10152015	10/15/2015	1300	2	W	X	X	
10	PIEZ-01_10142015	10/14/2015	1431	2	W	X	X	
	PEIZ-02_10142015	10/14/2015	1408	2	W	X	X	
11	PIEZ-03_10142015	10/14/2015	1418	2	W	X	X	
12								

Laboratory Use Only

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

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by:	Date:	Received by:	Date:
Signature: Tanner Holliday	10/19/2015	Signature:	
Print Name: Tanner Holliday	Time: 1230	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: Elena Hayes	Date: 10/20/15
Print Name:	Time:	Print Name: Elena Hayes	Time: 1040

Special Instructions:

Lab Set ID: 1510394

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.

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Jose Rocha
QA Officer

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

RE: 4th Quarter Chloroform 2015

Dear Garrin Palmer: Lab Set ID: 1510489

American West Analytical Laboratories received sample(s) on 10/23/2015 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, Wyoming, 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, email=jose@awal-labs.com, c=US
Date: 2015.11.06 15:40:31 -07'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Set ID: 1510489
Date Received: 10/23/2015 1020h

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510489-001A	TW4-03R_10202015	10/20/2015 650h	Aqueous	Anions, E300.0
1510489-001B	TW4-03R_10202015	10/20/2015 650h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-001C	TW4-03R_10202015	10/20/2015 650h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-002A	TW4-03_10212015	10/21/2015 858h	Aqueous	Anions, E300.0
1510489-002B	TW4-03_10212015	10/21/2015 858h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-002C	TW4-03_10212015	10/21/2015 858h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-003A	TW4-28_10212015	10/21/2015 930h	Aqueous	Anions, E300.0
1510489-003B	TW4-28_10212015	10/21/2015 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-003C	TW4-28_10212015	10/21/2015 930h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-004A	TW4-32_10212015	10/21/2015 938h	Aqueous	Anions, E300.0
1510489-004B	TW4-32_10212015	10/21/2015 938h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-004C	TW4-32_10212015	10/21/2015 938h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-005A	TW4-13_10212015	10/21/2015 948h	Aqueous	Anions, E300.0
1510489-005B	TW4-13_10212015	10/21/2015 948h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-005C	TW4-13_10212015	10/21/2015 948h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-006A	TW4-14_10212015	10/21/2015 957h	Aqueous	Anions, E300.0
1510489-006B	TW4-14_10212015	10/21/2015 957h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-006C	TW4-14_10212015	10/21/2015 957h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-007A	TW4-36_10212015	10/21/2015 1006h	Aqueous	Anions, E300.0
1510489-007B	TW4-36_10212015	10/21/2015 1006h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-007C	TW4-36_10212015	10/21/2015 1006h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-008A	TW4-31_10212015	10/21/2015 1210h	Aqueous	Anions, E300.0
1510489-008B	TW4-31_10212015	10/21/2015 1210h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-008C	TW4-31_10212015	10/21/2015 1210h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-009A	TW4-34_10212015	10/21/2015 1217h	Aqueous	Anions, E300.0
1510489-009B	TW4-34_10212015	10/21/2015 1217h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-009C	TW4-34_10212015	10/21/2015 1217h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-010A	TW4-25_10212015	10/21/2015 842h	Aqueous	Anions, E300.0
1510489-010B	TW4-25_10212015	10/21/2015 842h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Chloroform 2015
Lab Set ID: 1510489
Date Received: 10/23/2015 1020h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510489-010C	TW4-25_10212015	10/21/2015 842h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-011A	TW4-24_10192015	10/19/2015 1414h	Aqueous	Anions, E300.0
1510489-011B	TW4-24_10192015	10/19/2015 1414h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-011C	TW4-24_10192015	10/19/2015 1414h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-012A	TW4-21_10192015	10/19/2015 1356h	Aqueous	Anions, E300.0
1510489-012B	TW4-21_10192015	10/19/2015 1356h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-012C	TW4-21_10192015	10/19/2015 1356h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-013A	TW4-01_10192015	10/19/2015 1517h	Aqueous	Anions, E300.0
1510489-013B	TW4-01_10192015	10/19/2015 1517h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-013C	TW4-01_10192015	10/19/2015 1517h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-014A	TW4-11_10192015	10/19/2015 1455h	Aqueous	Anions, E300.0
1510489-014B	TW4-11_10192015	10/19/2015 1455h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-014C	TW4-11_10192015	10/19/2015 1455h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-015A	TW4-04_10192015	10/19/2015 1524h	Aqueous	Anions, E300.0
1510489-015B	TW4-04_10192015	10/19/2015 1524h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-015C	TW4-04_10192015	10/19/2015 1524h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-016A	MW-04_10192015	10/19/2015 1510h	Aqueous	Anions, E300.0
1510489-016B	MW-04_10192015	10/19/2015 1510h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-016C	MW-04_10192015	10/19/2015 1510h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-017A	TW4-02_10192015	10/19/2015 1502h	Aqueous	Anions, E300.0
1510489-017B	TW4-02_10192015	10/19/2015 1502h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-017C	TW4-02_10192015	10/19/2015 1502h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-018A	MW-26_10192015	10/19/2015 1447h	Aqueous	Anions, E300.0
1510489-018B	MW-26_10192015	10/19/2015 1447h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-018C	MW-26_10192015	10/19/2015 1447h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-019A	TW4-22_10192015	10/19/2015 1426h	Aqueous	Anions, E300.0
1510489-019B	TW4-22_10192015	10/19/2015 1426h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-019C	TW4-22_10192015	10/19/2015 1426h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-020A	TW4-19_10192015	10/19/2015 1345h	Aqueous	Anions, E300.0
1510489-020B	TW4-19_10192015	10/19/2015 1345h	Aqueous	Nitrite/Nitrate (as N), E353.2

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Chloroform 2015
Lab Set ID: 1510489
Date Received: 10/23/2015 1020h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510489-020C	TW4-19_10192015	10/19/2015 1345h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-021A	TW4-20_10192015	10/19/2015 1440h	Aqueous	Anions, E300.0
1510489-021B	TW4-20_10192015	10/19/2015 1440h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-021C	TW4-20_10192015	10/19/2015 1440h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-022A	TW4-37_10192015	10/19/2015 1434h	Aqueous	Anions, E300.0
1510489-022B	TW4-37_10192015	10/19/2015 1434h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-022C	TW4-37_10192015	10/19/2015 1434h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-023A	TW4-65_10212015	10/21/2015 858h	Aqueous	Anions, E300.0
1510489-023B	TW4-65_10212015	10/21/2015 858h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-023C	TW4-65_10212015	10/21/2015 858h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-024A	Trip Blank	10/19/2015	Aqueous	VOA by GC/MS Method 8260C/5030C
1510489-025A	TW4-12_10212015	10/21/2015 915h	Aqueous	Anions, E300.0
1510489-025B	TW4-12_10212015	10/21/2015 915h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510489-025C	TW4-12_10212015	10/21/2015 915h	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2015
Lab Set ID:	1510489

Sample Receipt Information:

Date of Receipt:	10/23/2015
Date(s) of Collection:	10/19, 10/20, & 10/21/2015
Sample Condition:	Intact
C-O-C Discrepancies:	None

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

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

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

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

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

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

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: The MS and MSD percent recoveries were outside of control limits on Nitrate/Nitrite for samples 1510489-001B and -021B due to sample matrix interference.

Corrective Action: None required.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510489
Project: 4th Quarter Chloroform 2015

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-R84499 Date Analyzed: 10/28/2015 1705h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R84575 Date Analyzed: 10/29/2015 1303h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R84558 Date Analyzed: 10/29/2015 1458h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R84557 Date Analyzed: 10/29/2015 1352h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510489
Project: 4th Quarter Chloroform 2015

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: 1510489-011AMS Date Analyzed: 10/29/2015 041h													
Test Code: 300.0-W													
Chloride	1,890	mg/L	E300.0	1.50	20.0	1,000	909	98.2	90 - 110				
Lab Sample ID: 1510489-007AMS Date Analyzed: 10/29/2015 352h													
Test Code: 300.0-W													
Chloride	160	mg/L	E300.0	0.150	2.00	100.0	64.5	95.9	90 - 110				
Lab Sample ID: 1510489-019AMS Date Analyzed: 10/29/2015 1353h													
Test Code: 300.0-W													
Chloride	1,540	mg/L	E300.0	1.50	20.0	1,000	567	97.2	90 - 110				
Lab Sample ID: 1510489-010BMS Date Analyzed: 10/29/2015 1428h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.2	mg/L	E353.2	0.0833	0.100	10.00	1.78	94.3	90 - 110				
Lab Sample ID: 1510489-021BMS Date Analyzed: 10/29/2015 1507h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.0	mg/L	E353.2	0.0833	0.100	10.00	6.23	87.7	90 - 110				[1]
Lab Sample ID: 1510489-001BMS Date Analyzed: 10/29/2015 1356h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.854	mg/L	E353.2	0.00833	0.0100	1.000	0	85.4	90 - 110				[1]

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510489
Project: 4th Quarter Chloroform 2015

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: 1510489-011AMSD Date Analyzed: 10/29/2015 059h													
Test Code: 300.0-W													
Chloride	1,900	mg/L	E300.0	1.50	20.0	1,000	909	98.6	90 - 110	1890	0.259	20	
Lab Sample ID: 1510489-007AMSD Date Analyzed: 10/29/2015 410h													
Test Code: 300.0-W													
Chloride	160	mg/L	E300.0	0.150	2.00	100.0	64.5	95.8	90 - 110	160	0.0674	20	
Lab Sample ID: 1510489-019AMSD Date Analyzed: 10/29/2015 1410h													
Test Code: 300.0-W													
Chloride	1,530	mg/L	E300.0	1.50	20.0	1,000	567	96.3	90 - 110	1540	0.559	20	
Lab Sample ID: 1510489-010BMSD Date Analyzed: 10/29/2015 1430h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.6	mg/L	E353.2	0.0833	0.100	10.00	1.78	98.4	90 - 110	11.2	3.59	10	
Lab Sample ID: 1510489-021BMSD Date Analyzed: 10/29/2015 1509h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.0	mg/L	E353.2	0.0833	0.100	10.00	6.23	88.0	90 - 110	15	0.200	10	[1]
Lab Sample ID: 1510489-001BMSD Date Analyzed: 10/29/2015 1358h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.871	mg/L	E353.2	0.00833	0.0100	1.000	0	87.1	90 - 110	0.854	1.98	10	[1]

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

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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.

15 10489
AWAL Lab Sample Set #
Page 1 of 2

QC Level: 3

Turn Around Time: Standard

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Due Date:

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 4th QUARTER CHLOROFORM 2015
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)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-03R_10202015	10/20/2015	650	5	W	X	X	X	
2	TW403_10212015	10/21/2015	858	5	W	X	X	X	* Bottle read TW4-03
3	TW4-28_10212015	10/21/2015	930	5	W	X	X	X	
4	TW4-32_10212015	10/21/2015	938	5	W	X	X	X	
5	TW4-13_10212015	10/21/2015	948	5	W	X	X	X	
6	TW4-14_10212015	10/21/2015	957	5	W	X	X	X	
7	TW4-36_10212015	10/21/2015	1006	5	W	X	X	X	
8	TW4-31_10212015	10/21/2015	1210	5	W	X	X	X	
9	TW4-34_10212015	10/21/2015	1217	5	W	X	X	X	
10	TW4-25_10212015	10/21/2015	842	5	W	X	X	X	
	TW4-24_10192015	10/19/2015	1414	5	W	X	X	X	
11	TW4-21_10192015	10/19/2015	1356	5	W	X	X	X	
12	TW4-01_10192015	10/19/2015	1517	5	W	X	X	X	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.0 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N
*

Relinquished by:	Date:	Received by:	Date:
Signature: Tanner Holliday	10/22/2015	Signature:	
Print Name: Tanner Holliday	Time: 1230	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature: Elma Hayes	Date: 10/23/15
Print Name:	Time:	Print Name: Elma Hayes	Time: 1020
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.

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CHAIN OF CUSTODY

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

15/0489
AWAL Lab Sample Set #
Page 2 of 2

QC Level: 3

Turn Around Time: Standard

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Due Date:

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 4th QUARTER CHLOROFORM 2015
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)	VOCs (8260C)	Known Hazards & Sample Comments
4	TW4-11_10192015	10/19/2015	1455	5	W	X	X	X	
5	TW4-04_10192015	10/19/2015	1524	5	W	X	X	X	* Cl bottle read TW4-01_10192015
6	MW-04_10192015	10/19/2015	1510	5	W	X	X	X	
7	TW4-02_10192015	10/19/2015	1502	5	W	X	X	X	
8	MW-26_10192015	10/19/2015	1447	5	W	X	X	X	
9	TW4-22_10192015	10/19/2015	1426	5	W	X	X	X	
10	TW4-19_10192015	10/19/2015	1345	5	W	X	X	X	
11	TW4-20_10192015	10/19/2015	1440	5	W	X	X	X	
12	TW4-37_10192015	10/19/2015	1434	5	W	X	X	X	
13	TW4-65_10212015	10/21/2015	858	5	W	X	X	X	
14	TRIP BLANK	10/19/2015		3	W			X	
11	TEMP BLANK	10/22/2015		1	W				
15	TW4-12_10212015	10/21/2015	915	5	W	X	X	X	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.0 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

*

Relinquished by:	Date:	Received by:	Date:
Signature: Tanner Holliday	10/22/2015	Signature:	
Print Name: Tanner Holliday	Time: 1230	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature: Elma Hayes	Date: 10/23/15
Print Name:	Time:	Print Name: Elma Hayes	Time: 1020
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.

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: 1510489

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
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.

Lab Set ID: 1510489

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	19	20	21	22	23	25												
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												
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.

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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: 4th Quarter Chloroform 2015

Dear Garrin Palmer: Lab Set ID: 1510626

American West Analytical Laboratories received sample(s) on 10/30/2015 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, Wyoming, 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, email=jose@awal-labs.com, c=US
Date: 2015.11.19 13:51:34 -07'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2015
Lab Set ID: 1510626
Date Received: 10/30/2015 1000h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510626-001A	TW4-33R_10282015	10/28/2015 959h	Aqueous	Anions, E300.0
1510626-001B	TW4-33R_10282015	10/28/2015 959h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-001C	TW4-33R_10282015	10/28/2015 959h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-002A	TW4-35_10282015	10/28/2015 802h	Aqueous	Anions, E300.0
1510626-002B	TW4-35_10282015	10/28/2015 802h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-002C	TW4-35_10282015	10/28/2015 802h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-003A	TW4-23_10282015	10/28/2015 810h	Aqueous	Anions, E300.0
1510626-003B	TW4-23_10282015	10/28/2015 810h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-003C	TW4-23_10282015	10/28/2015 810h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-004A	MW-32_10282015	10/28/2015 1400h	Aqueous	Anions, E300.0
1510626-004B	MW-32_10282015	10/28/2015 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-004C	MW-32_10282015	10/28/2015 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-005A	TW4-27_10282015	10/28/2015 821h	Aqueous	Anions, E300.0
1510626-005B	TW4-27_10282015	10/28/2015 821h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-005C	TW4-27_10282015	10/28/2015 821h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-006A	TW4-30_10282015	10/28/2015 827h	Aqueous	Anions, E300.0
1510626-006B	TW4-30_10282015	10/28/2015 827h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-006C	TW4-30_10282015	10/28/2015 827h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-007A	TW4-26_10282015	10/28/2015 837h	Aqueous	Anions, E300.0
1510626-007B	TW4-26_10282015	10/28/2015 837h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-007C	TW4-26_10282015	10/28/2015 837h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-008A	TW4-05_10282015	10/28/2015 844h	Aqueous	Anions, E300.0
1510626-008B	TW4-05_10282015	10/28/2015 844h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-008C	TW4-05_10282015	10/28/2015 844h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-009A	TW4-18_10282015	10/28/2015 852h	Aqueous	Anions, E300.0
1510626-009B	TW4-18_10282015	10/28/2015 852h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-009C	TW4-18_10282015	10/28/2015 852h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-010A	TW4-09_10282015	10/28/2015 900h	Aqueous	Anions, E300.0
1510626-010B	TW4-09_10282015	10/28/2015 900h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Chloroform 2015
Lab Set ID: 1510626
Date Received: 10/30/2015 1000h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1510626-010C	TW4-09_10282015	10/28/2015 900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-011A	TW4-16_10282015	10/28/2015 906h	Aqueous	Anions, E300.0
1510626-011B	TW4-16_10282015	10/28/2015 906h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-011C	TW4-16_10282015	10/28/2015 906h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-012A	TW4-33_10292015	10/29/2015 800h	Aqueous	Anions, E300.0
1510626-012B	TW4-33_10292015	10/29/2015 800h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-012C	TW4-33_10292015	10/29/2015 800h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-013A	TW4-29_10292015	10/29/2015 807h	Aqueous	Anions, E300.0
1510626-013B	TW4-29_10292015	10/29/2015 807h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-013C	TW4-29_10292015	10/29/2015 807h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-014A	TW4-08_10292015	10/29/2015 815h	Aqueous	Anions, E300.0
1510626-014B	TW4-08_10292015	10/29/2015 815h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-014C	TW4-08_10292015	10/29/2015 815h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-015A	TW4-07_10292015	10/29/2015 821h	Aqueous	Anions, E300.0
1510626-015B	TW4-07_10292015	10/29/2015 821h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-015C	TW4-07_10292015	10/29/2015 821h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-016A	TW4-06_10292015	10/29/2015 826h	Aqueous	Anions, E300.0
1510626-016B	TW4-06_10292015	10/29/2015 826h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-016C	TW4-06_10292015	10/29/2015 826h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-017A	TW4-10_10292015	10/29/2015 835h	Aqueous	Anions, E300.0
1510626-017B	TW4-10_10292015	10/29/2015 835h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-017C	TW4-10_10292015	10/29/2015 835h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-018A	TW4-60_10292015	10/29/2015 900h	Aqueous	Anions, E300.0
1510626-018B	TW4-60_10292015	10/29/2015 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-018C	TW4-60_10292015	10/29/2015 900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-019A	TW4-70_10292015	10/29/2015 810h	Aqueous	Anions, E300.0
1510626-019B	TW4-70_10292015	10/29/2015 810h	Aqueous	Nitrite/Nitrate (as N), E353.2
1510626-019C	TW4-70_10292015	10/29/2015 810h	Aqueous	VOA by GC/MS Method 8260C/5030C
1510626-020A	Trip Blank	10/28/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2015
Lab Set ID:	1510626

Sample Receipt Information:

Date of Receipt:	10/30/2015
Date(s) of Collection:	10/28 & 10/29/2015
Sample Condition:	Intact
C-O-C Discrepancies:	None

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

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

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

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

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.

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510626
Project: 4th Quarter Chloroform 2015

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: 1510626-010ADUP Date Analyzed: 11/12/2015 2328h													
Test Code: 300.0-W													
Chloride	28.7	mg/L	E300.0	0.0751	1.00					29.2	1.49	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510626
Project: 4th Quarter Chloroform 2015

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 Date Analyzed: 11/02/2015 1119h													
Test Code: 300.0-W													
Chloride	4.92	mg/L	E300.0	0.00751	0.100	5.000	0	98.5	90 - 110				
Lab Sample ID: LCS-R84728 Date Analyzed: 11/03/2015 1427h													
Test Code: 300.0-W													
Chloride	4.89	mg/L	E300.0	0.00751	0.100	5.000	0	97.8	90 - 110				
Lab Sample ID: LCS-R85059 Date Analyzed: 11/12/2015 1818h													
Test Code: 300.0-W													
Chloride	4.90	mg/L	E300.0	0.00751	0.100	5.000	0	98.0	90 - 110				
Lab Sample ID: LCS-R84850 Date Analyzed: 11/07/2015 1712h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.966	mg/L	E353.2	0.00833	0.0100	1.000	0	96.6	90 - 110				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510626
Project: 4th Quarter Chloroform 2015

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 Date Analyzed: 11/02/2015 1102h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R84728 Date Analyzed: 11/03/2015 1410h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R85059 Date Analyzed: 11/12/2015 1801h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R84850 Date Analyzed: 11/07/2015 1711h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510626
Project: 4th Quarter Chloroform 2015

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: 1510626-011AMS Date Analyzed: 11/02/2015 2050h													
Test Code: 300.0-W													
Chloride	156	mg/L	E300.0	0.150	2.00	100.0	58.3	98.1	90 - 110				
Lab Sample ID: 1510626-001AMS Date Analyzed: 11/03/2015 1500h													
Test Code: 300.0-W													
Chloride	4.92	mg/L	E300.0	0.00751	0.100	5.000	0	98.4	90 - 110				
Lab Sample ID: 1510526-006BMS Date Analyzed: 11/07/2015 1718h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.0	mg/L	E353.2	0.0833	0.100	10.00	1.86	91.2	90 - 110				
Lab Sample ID: 1510626-014BMS Date Analyzed: 11/07/2015 1733h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0833	0.100	10.00	2.2	96.7	90 - 110				

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1510626
Project: 4th Quarter Chloroform 2015

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: 1510626-011AMSD Date Analyzed: 11/02/2015 2107h													
Test Code: 300.0-W													
Chloride	157	mg/L	E300.0	0.150	2.00	100.0	58.3	98.3	90 - 110	0	0	20	
Lab Sample ID: 1510626-001AMSD Date Analyzed: 11/03/2015 1517h													
Test Code: 300.0-W													
Chloride	4.92	mg/L	E300.0	0.00751	0.100	5.000	0	98.5	90 - 110	4.92	0.0481	20	
Lab Sample ID: 1510626-006BMSD Date Analyzed: 11/07/2015 1719h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	1.86	96.7	90 - 110	11	4.89	10	
Lab Sample ID: 1510626-014BMSD Date Analyzed: 11/07/2015 1733h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.7	mg/L	E353.2	0.0833	0.100	10.00	2.2	95.0	90 - 110	11.9	1.44	10	

analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th
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American West
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463 W. 3600 S. Salt Lake City, UT 84115
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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.

15 10626
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: 4th Quarter Chloroform 2015
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)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-33R_10282015	10/28/2015	959	5	W	x	x	x	
2	TW4-35_10282015	10/28/2015	802	5	W	x	x	x	
3	TW4-23_10282015	10/28/2015	810	5	W	x	x	x	
4	MW-32_10282015	10/28/2015	1400	5	W	x	x	x	
5	TW4-27_10282015	10/28/2015	821	5	W	x	x	x	
6	TW4-30_10282015	10/28/2015	827	5	W	x	x	x	
7	TW4-26_10282015	10/28/2015	837	5	W	x	x	x	
8	TW4-05_10282015	10/28/2015	844	5	W	x	x	x	
9	TW4-18_10282015	10/28/2015	852	5	W	x	x	x	
10	TW4-09_10282015	10/28/2015	900	5	W	x	x	x	
11	TW4-16_10282015	10/28/2015	906	5	W	x	x	x	
12	TW4-33_10292015	10/29/2015	800	5	W	x	x	x	
13	TW4-29_10292015	10/29/2015	807	5	W	x	x	x	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.2 °C
4 Received Broken/Leaking (Improperly Sealed) Y N #15 vial has broken
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by:	Date:	Received by:	Date:
Signature: Garrin Palmer	10/29/15	Signature:	
Print Name: Garrin Palmer	Time: 1230	Print Name:	Time:
Relinquished by:	Date:	Received by:	Date: 10/30/15
Signature:		Signature: Elmer Hayes	
Print Name:	Time:	Print Name: Elmer Hayes	Time: 1000
Relinquished by:	Date:	Received by:	Date:
Signature:		Signature:	
Print Name:	Time:	Print Name:	Time:
Relinquished by:	Date:	Received by:	Date:
Signature:		Signature:	
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

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15/0626
AWAL Lab Sample Set #
Page 2 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:
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Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
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Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 4th Quarter Chloroform 2015
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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)	VOCs (8260C)	Known Hazards & Sample Comments
4	TW4-08_10292015	10/29/2015	815	5	W	x	x	x	
5	TW4-07_10292015	10/29/2015	821			x	x	x	
6	TW4-06_10292015	10/29/2015	826			x	x	x	
7	TW4-10_10292015	10/29/2015	835			x	x	x	
8	TW4-60_10292015	10/29/2015	900			x	x	x	
9	TW4-70_10292015	10/29/2015	810			x	x	x	
6	Trip Blank	10/28/2015		3	w			x	
8	Temp Blank			1	w				
9									
10									
11									
12									

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered UPS
2 Ambient or Chilled
3 Temperature 3.2 °C
4 Received Broken/Leaking (Improperly Sealed) Y N #15 1 vial rec broken
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by:	Date:	Received by:	Date:
Signature: Garrin Palmer	10/29/15	Signature:	
Print Name: Garrin Palmer	Time: 1230	Print Name:	Time:
Relinquished by:	Date:	Received by:	Date: 10/30/15
Signature:		Signature: Ellen Hayes	
Print Name:	Time:	Print Name: Ellen Hayes	Time: 1000
Relinquished by:	Date:	Received by:	Date:
Signature:		Signature:	
Print Name:	Time:	Print Name:	Time:
Relinquished by:	Date:	Received by:	Date:
Signature:		Signature:	
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

Lab Set ID: 1510626

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Ammonia	pH <2 H_2SO_4																			
COD	pH <2 H_2SO_4																			
Cyanide	pH >12 NaOH																			
Metals	pH <2 HNO_3																			
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
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	Casing Volume	2x Casing Volume	Volume Pumped	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD
Piezometer 1	NA	--			2144		NC	9.30		NC	15.54		NC	220		NC	2.1		NC
Piezometer 2	NA	--			850		NC	7.07		NC	15.44		NC	378		NC	2.6		NC
Piezometer 3	NA	--			1195		NC	10.95		NC	16.16		NC	290		NC	5.1		NC
TWN-1	33.06	66.12	88.00	OK	858	863	0.58	6.77	6.79	0.29	15.37	15.37	0.00	388	385	0.78	14	14	0.00
TWN-2	NA	Continuously Pumped Well			3059		NC	7.70		NC	15.71		NC	242		NC	0.0		NC
TWN-3	37.85	75.70	49.50	Pumped Dry	2254.0	2260.0	0.27	6.59	6.58	0.15	15.95	15.98	0.19	NM		NC	NM		NC
TWN-4	46.42	92.84	121.00	OK	1050.0	1051.0	0.10	6.73	6.75	0.30	14.95	14.95	0.00	396	394	0.51	71.0	73.0	2.78
TWN-7	12.62	25.24	16.50	Pumped Dry	1534.0	1519.0	0.98	6.50	6.51	0.15	17.40	17.44	0.23	NM		NC	NM		NC
TWN-18	55.33	110.66	132.00	OK	2262.0	2262.0	0.00	6.58	6.60	0.30	14.70	14.70	0.00	389	389	0.00	89.0	88.0	1.13
TW4-22	NA	Continuously pumped well			5429		NC	6.68		NC	16.10		NC	275		NC	1.0		NC
TW4-24	NA	Continuously pumped well			7905		NC	6.51		NC	16.49		NC	327		NC	2.1		NC
TW4-25	NA	Continuously pumped well			2545		NC	5.99		NC	15.06		NC	388		NC	2.9		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	10/14/2015	10/23/2015	9	28	OK
PIEZ-01	Nitrate/Nitrite (as N)	10/14/2015	10/28/2015	14	28	OK
PIEZ-02	Chloride	10/14/2015	10/23/2015	9	28	OK
PIEZ-02	Nitrate/Nitrite (as N)	10/14/2015	10/25/2015	11	28	OK
PIEZ-03	Chloride	10/14/2015	10/23/2015	9	28	OK
PIEZ-03	Nitrate/Nitrite (as N)	10/14/2015	10/25/2015	11	28	OK
TWN-01	Chloride	10/13/2015	10/23/2015	10	28	OK
TWN-01	Nitrate/Nitrite (as N)	10/13/2015	10/25/2015	12	28	OK
TWN-02	Chloride	10/14/2015	10/23/2015	9	28	OK
TWN-02	Nitrate/Nitrite (as N)	10/14/2015	10/25/2015	11	28	OK
TWN-03	Chloride	10/14/2015	10/23/2015	9	28	OK
TWN-03	Nitrate/Nitrite (as N)	10/14/2015	10/25/2015	11	28	OK
TWN-04	Chloride	10/13/2015	10/23/2015	10	28	OK
TWN-04	Nitrate/Nitrite (as N)	10/13/2015	10/25/2015	12	28	OK
TWN-07	Chloride	10/14/2015	10/23/2015	9	28	OK
TWN-07	Nitrate/Nitrite (as N)	10/14/2015	10/25/2015	11	28	OK
TWN-07R	Chloride	10/13/2015	10/23/2015	10	28	OK
TWN-07R	Nitrate/Nitrite (as N)	10/13/2015	10/25/2015	12	28	OK
TWN-18	Chloride	10/13/2015	10/23/2015	10	28	OK
TWN-18	Nitrate/Nitrite (as N)	10/13/2015	10/25/2015	12	28	OK
TW4-22	Chloride	10/19/2015	10/29/2015	10	28	OK
TW4-22	Nitrate/Nitrite (as N)	10/19/2015	10/29/2015	10	28	OK
TW4-24	Chloride	10/19/2015	10/29/2015	10	28	OK
TW4-24	Nitrate/Nitrite (as N)	10/19/2015	10/29/2015	10	28	OK
TW4-25	Chloride	10/21/2015	10/29/2015	8	28	OK
TW4-25	Nitrate/Nitrite (as N)	10/21/2015	10/29/2015	8	28	OK
TW4-60	Chloride	10/29/2015	11/04/2015	6	28	OK
TW4-60	Nitrate/Nitrite (as N)	10/29/2015	11/07/2015	9	28	OK
TWN-60	Chloride	10/15/2015	10/23/2015	8	28	OK
TWN-60	Nitrate/Nitrite (as N)	10/15/2015	10/25/2015	10	28	OK
TWN-65	Chloride	10/13/2015	10/23/2015	10	28	OK
TWN-65	Nitrate/Nitrite (as N)	10/13/2015	10/25/2015	12	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	RL Check	Dilution Factor
PIEZ-01	Chloride	10	mg/L		1	OK	10
PIEZ-01	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	OK	1
PIEZ-02	Chloride	2	mg/L		1	OK	2
PIEZ-02	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
PIEZ-03	Chloride	10	mg/L		1	OK	10
PIEZ-03	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-01	Chloride	10	mg/L		1	OK	10
TWN-01	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-02	Chloride	10	mg/L		1	OK	10
TWN-02	Nitrate/Nitrite (as N)	1	mg/L		0.1	OK	5
TWN-03	Chloride	100	mg/L		1	OK	100
TWN-03	Nitrate/Nitrite (as N)	0.5	mg/L		0.1	OK	5
TWN-04	Chloride	10	mg/L		1	OK	10
TWN-04	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-07	Chloride	1	mg/L		1	OK	1
TWN-07	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-07R	Chloride	1	mg/L	U	1	OK	1
TWN-07R	Nitrate/Nitrite (as N)	0.10	mg/L	U	0.1	OK	1
TWN-18	Chloride	10	mg/L		1	OK	10
TWN-18	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TW4-22	Chloride	100	mg/L		1	OK	100
TW4-22	Nitrate/Nitrite (as N)	10	mg/L		0.1	OK	100
TW4-24	Chloride	100	mg/L		1	OK	100
TW4-24	Nitrate/Nitrite (as N)	2	mg/L		0.1	OK	20
TW4-25	Chloride	10	mg/L		1	OK	10
TW4-25	Nitrate/Nitrite (as N)	0	mg/L		0.1	OK	1
TW4-60	Chloride	1	mg/L	U	1	OK	1
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	OK	1
TWN-60	Chloride	1	mg/L	U	1	OK	1
TWN-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	OK	1
TWN-65	Chloride	10	mg/L		1	OK	10
TWN-65	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1

U = Value was reported by the laboratory as nondetect.

H-5 QA/QC Evaluation for Sample Duplicates

Constituent	TWN-18	TWN-65	%RPD
Chloride	69	68.6	0.58
Nitrogen	0.668	0.645	3.50

ND - non-detect
NC - not calculated. The RPD was not calucated, because the duplicate sample was reported as non-detect.

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
1510394	1510394-001BMS	TWN-07R	Nitrate	89.8	92.9	90-110	3.32
1510394	1510369-001BMS	N/A	Nitrate	82.9	85.8	90-110	1.92
1510394	1510574-001GMS	N/A	Nitrate	55.6	57.7	90-110	3.76
1510489	1510489-021BMS	TW4-20	Nitrate	87.7	88	90 - 110	0.2
1510489	1510489-001BMS	TW4-03R	Nitrate	85.4	87.1	90 - 110	1.98

* - Recovery was not calculated because the analyte of the sample was greater than 4 times the spike amount

N/A - QC was not performed on an EFRI sample.

NC - Not calculated

Laboratory Control Sample

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

H-7 Receipt Temperature Evaluation

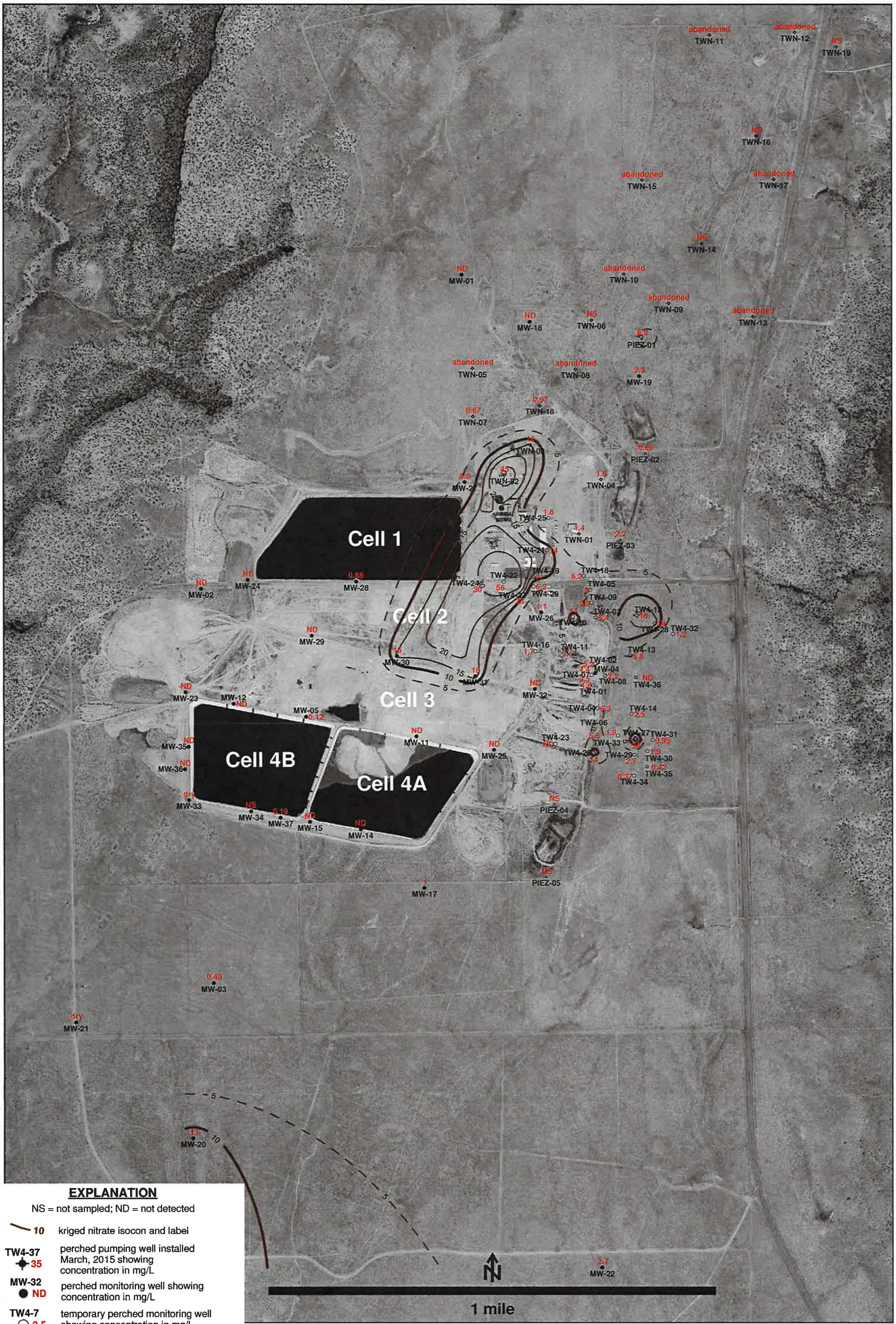
Sample Batch	Wells in Batch	Temperature
1510394	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-7, TWN-07R, TWN-18, TWN-60, TWN-65	2.6 ˚C
1510489	TW4-22, TW4-24, TW4-25	3.0 ˚C
1510626	TW4-60	3.2 ˚C

H-8 Rinsate Evaluation

All rinsate and DI blank samples were non-detect for the quarter.

Tab I

Kriged Current Quarter Isoconcentration Maps

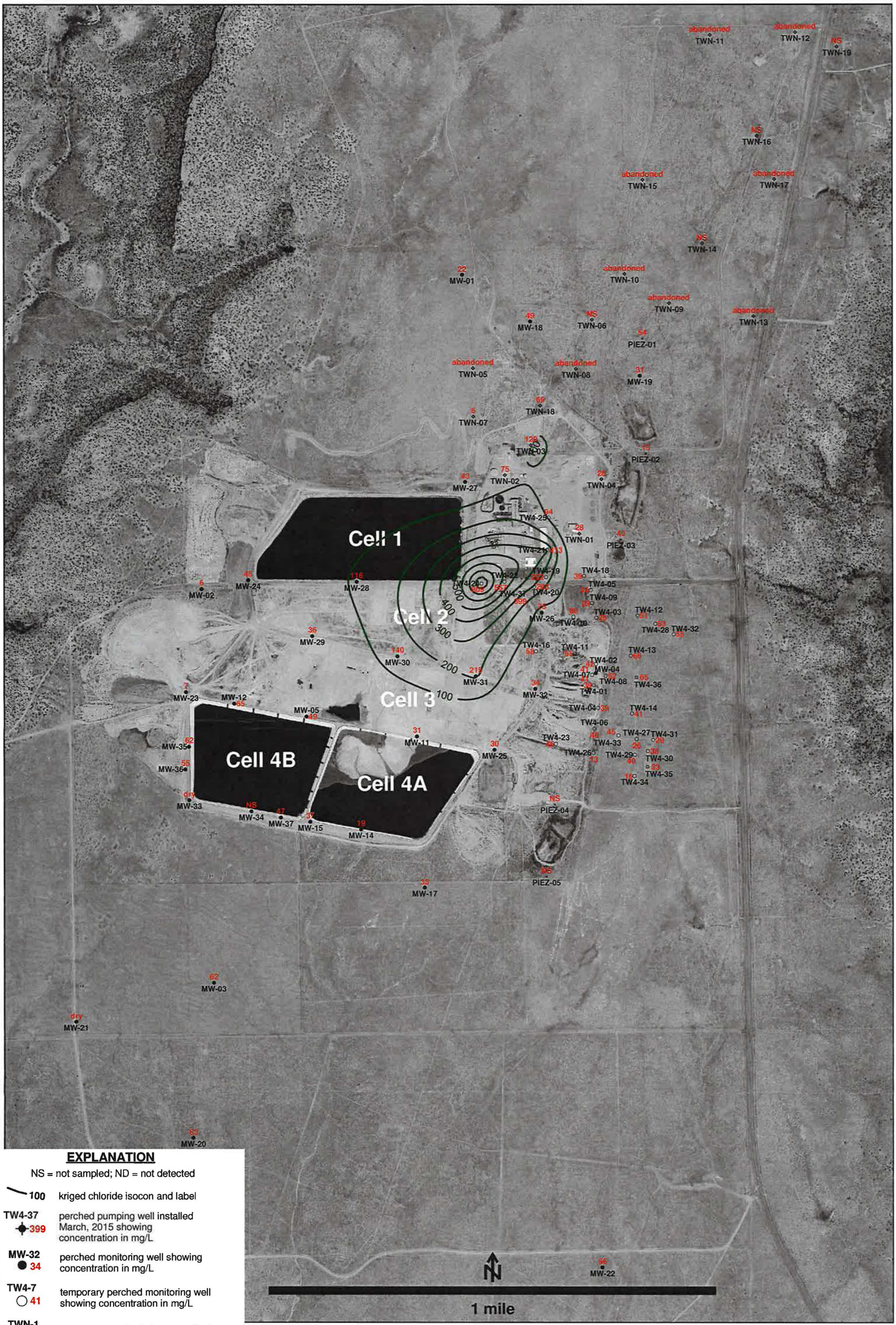


NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2015 NITRATE (mg/L) (NITRATE + NITRITE AS N) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/Feb16/nitrate/Unt1115.srf	I-1



EXPLANATION

NS = not sampled; ND = not detected

100	kriged chloride isocon and label
TW4-37 399	perched pumping well installed March, 2015 showing concentration in mg/L
MW-32 34	perched monitoring well showing concentration in mg/L
TW4-7 41	temporary perched monitoring well showing concentration in mg/L
TWN-1 28	temporary perched nitrate monitoring well showing concentration in mg/L
PIEZ-1 54	perched piezometer showing concentration in mg/L
TW4-36 65	temporary perched monitoring well installed May, 2014 showing concentration in mg/L

NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2015 CHLORIDE (mg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/Feb16/chloride/Ucl1115.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
5/7/2014	7.57	52.1
8/6/2014	5.1	55
10/8/2014	5.75	57.6
2/18/2015	6.41	55.9
5/12/2015	5.95	57.5
8/26/2015	4.96	64.2
10/14/2015	6.17	54.4

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
5/7/2014	0.736	11.4
8/6/2014	0.8	12
10/8/2014	0.755	12.2
2/18/2015	0.749	12.6
5/12/2015	0.646	13.1
8/26/2015	0.662	15.5
10/14/2015	0.692	13.3

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
5/7/2014	1.79	23.9
8/6/2014	1.7	26
10/8/2014	1.74	28.3
2/18/2015	1.82	27.1
5/12/2015	1.75	30.2
8/26/2015	1.87	54.8
10/14/2015	2.24	39.5

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
5/6/2014	1.63	31.1
8/5/2014	1.7	28
10/8/2014	1.46	27.6
2/18/2015	1.37	27.8
5/13/2015	0.65	29.2
8/25/2015	0.324	33.2
10/13/2015	1.35	27.7

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
5/7/2014	44.7	84.9
8/6/2014	42	80
10/8/2014	70.6	81
2/18/2015	48.6	84.8
5/12/2015	52.8	82.6
8/25/2015	49.7	87.8
10/14/2015	44.9	74.9

TWN-3

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	23.6	96
7/21/2009	25.3	96
9/21/2009	27.1	99
11/2/2009	29	106
3/25/2010	25.3	111
6/3/2010	26	118
7/15/2010	27	106
12/10/2010	24	117
2/1/2011	24	138
4/28/2011	26	128
7/29/2011	25	134
10/20/2011	25	129
1/12/2012	25	143
4/20/2012	24	152
7/31/2012	27	158
10/17/2012	12.1	149
2/19/2013	22.2	157
4/24/2013	27.2	158
8/28/2013	20.9	171
10/17/2013	23.5	163
1/15/2014	19.6	160
5/7/2014	23.6	168
8/6/2014	19.5	174
10/9/2014	19.1	153
2/19/2015	19.4	164
5/14/2015	17.2	141
8/26/2015	16.2	156
10/14/2015	16.3	129

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
5/6/2014	1.55	29.6
8/5/2014	2.0	28
10/8/2014	1.44	30.7
2/18/2015	1.48	31.5
5/13/2015	0.733	31.9
8/25/2015	0.974	35.2
10/13/2015	1.58	28.4

TWN-7

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	ND	11.00
9/21/2009	ND	7.00
11/10/2009	0.1	7.00
3/17/2010	0.8	6.00
5/28/2010	1.2	6.00
7/14/2010	1.6	7.00
12/10/2010	1	4.00
1/27/2011	1.3	6.00
4/21/2011	1.7	6.00
7/29/2011	0.7	5.00
10/19/2011	2.2	6.00
1/11/2012	2.3	5.00
4/20/2012	1.2	6.00
7/26/2012	0.9	6.00
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
5/7/2014	0.564	5.26
8/6/2014	0.9	6.00
10/9/2014	0.968	5.93
2/19/2015	1.04	5.58
5/14/2015	0.779	6.18
8/26/2015	0.348	6.12
10/14/2015	0.672	5.84

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
5/6/2014	2.18	76.5
8/5/2014	1.8	70
10/8/2014	1.47	74.8
2/18/2015	1.00	73.3
5/13/2015	1.35	76.6
8/25/2015	0.35	81.3
10/13/2015	0.668	69

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	5/19/2014	152
8/16/2010	5.90	8/11/2014	140
10/11/2010	2.70	10/21/2014	130
2/17/2011	17.00	3/9/2015	238
6/7/2011	12.00	6/8/2015	180
8/17/2011	3.00	8/31/2015	326
11/17/2011	5.00	10/19/2015	252
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		
5/19/2014	1.34		
8/11/2014	1.60		
10/21/2014	4.72		
3/9/2015	8.56		
6/8/2015	0.92		
8/31/2015	11.60		

TW4-19

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
10/19/2015	10.60		

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

TW4-21

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
5/25/2005	14.6	12/7/2005	353
8/31/2005	10.1	3/9/2006	347
11/30/2005	9.6	7/20/2006	357
3/9/2006	8.5	11/8/2006	296
6/14/2006	10.2	2/28/2007	306
7/20/2006	8.9	6/27/2007	327
11/8/2006	8.7	8/15/2007	300
2/28/2007	8.7	10/10/2007	288
6/27/2007	8.6	3/26/2008	331
8/15/2007	8.6	6/25/2008	271
10/10/2007	8.3	9/10/2008	244
3/26/2008	14.3	10/15/2008	284
6/25/2008	8.8	3/11/2009	279
9/10/2008	7.6	6/24/2009	291
10/15/2008	8.0	9/15/2009	281
3/11/2009	8.3	12/22/2009	256
6/24/2009	8.1	2/25/2010	228
9/15/2009	9.2	6/10/2010	266
12/22/2009	8.4	8/12/2010	278
2/25/2010	8.4	10/13/2010	210
6/10/2010	12.0	2/22/2011	303
8/12/2010	14.0	6/1/2011	297
10/13/2010	7.0	8/17/2011	287
2/22/2011	9.0	11/16/2011	276
6/1/2011	13.0	1/19/2012	228
8/17/2011	14.0	6/13/2012	285
11/16/2011	13.0	9/13/2012	142
1/19/2012	15.0	10/4/2012	270
6/13/2012	11.0	2/13/2013	221
9/13/2012	13.0	6/18/2013	243
10/4/2012	14.0	9/12/2013	207
2/13/2013	11.8	11/13/2013	206
6/18/2013	13.8	2/5/2014	200
9/12/2013	10.3	5/22/2014	243
11/13/2013	9.0	8/27/2014	230
2/5/2014	11.4	10/29/2014	252
5/22/2014	11.5	3/12/2015	255
8/27/2014	7.1	6/8/2015	494
10/29/2014	10.0	8/31/2015	499

TW4-21

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
3/12/2015	10.9	10/19/2015	413
6/8/2015	13.1		
8/31/2015	14.7		
10/19/2015	14.3		

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

TW4-22

Date	Nitrate (mg/l)	Chloride (mg/l)
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
5/19/2014	47.2	614
8/11/2014	41.5	540
10/21/2014	54.9	596
3/9/2015	69.2	675
6/8/2015	47.1	390
8/31/2015	64.7	557
10/19/2015	56.1	567

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
5/19/2014	35	1020
8/11/2014	31.5	1150
10/21/2014	35.7	1050
3/9/2015	34.6	944
6/8/2015	31.8	1290
8/31/2015	25.3	788
10/19/2015	29.6	909

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
5/19/2014	1.21	51.1
8/11/2014	1.6	67
10/21/2014	1.03	58.1
3/9/2015	14.4	310
6/8/2015	1.14	58.3
8/31/2015	1.63	69.2
10/21/2015	1.78	93.7

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

MW-30

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
4/10/2012	17.0	11/13/2012	114
5/2/2012	16.0	12/26/2012	122
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	4/23/2014	154
10/22/2013	19.7	5/14/2014	128
11/20/2013	19.5	6/3/2014	128
12/18/2013	20.7	7/29/2014	140
1/8/2014	20.3	8/20/2014	139
2/25/2014	18.4	9/9/2014	136
3/11/2014	21.3	10/7/2014	136
4/23/2014	18.3	11/10/2014	154
5/14/2014	17.9	12/10/2014	138
6/3/2014	19.4	1/21/2015	144
7/29/2014	15.6	2/4/2015	136
8/20/2014	13.8	3/3/2015	132
9/9/2014	16.8	4/8/2015	142
10/7/2014	11.0	5/12/2015	145
11/10/2014	16.2	6/24/2015	142
12/10/2014	17.1	7/7/2015	145
1/21/2015	19.5	8/11/2015	165
2/4/2015	14.9	9/15/2015	165
3/3/2015	17.3	11/11/2015	140

MW-30

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
4/8/2015	17.0		
5/12/2015	16.1		
6/24/2015	15.8		
7/7/2015	15.3		
8/11/2015	17.9		
9/15/2015	17.3		
11/11/2015	16.3		

Under the groundwater sampling program, 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

MW-31

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
4/9/2012	21.0	11/6/2012	189
5/2/2012	20.0	12/18/2012	170
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	4/28/2014	230
10/23/2013	21.2	5/13/2014	200
11/18/2013	23.9	6/2/2014	173
12/17/2013	24.2	7/28/2014	200
1/7/2014	24.0	8/18/2014	210
2/17/2014	20.6	9/3/2014	210
3/10/2014	26.2	10/6/2014	205
4/28/2014	19.1	11/4/2014	204
5/13/2014	23.3	12/9/2014	215
6/2/2014	23.1	1/20/2015	226
7/28/2014	19.0	2/2/2015	211
8/18/2014	15.2	3/3/2015	209
9/3/2014	18.9	4/7/2015	211
10/6/2014	15.9	5/11/2015	225
11/4/2014	20.9	6/23/2015	228
12/9/2014	17.0	7/6/2015	222
1/20/2015	20.9	8/10/2015	264
2/2/2015	18.7	9/15/2015	231
3/3/2015	19.8	11/9/2015	215

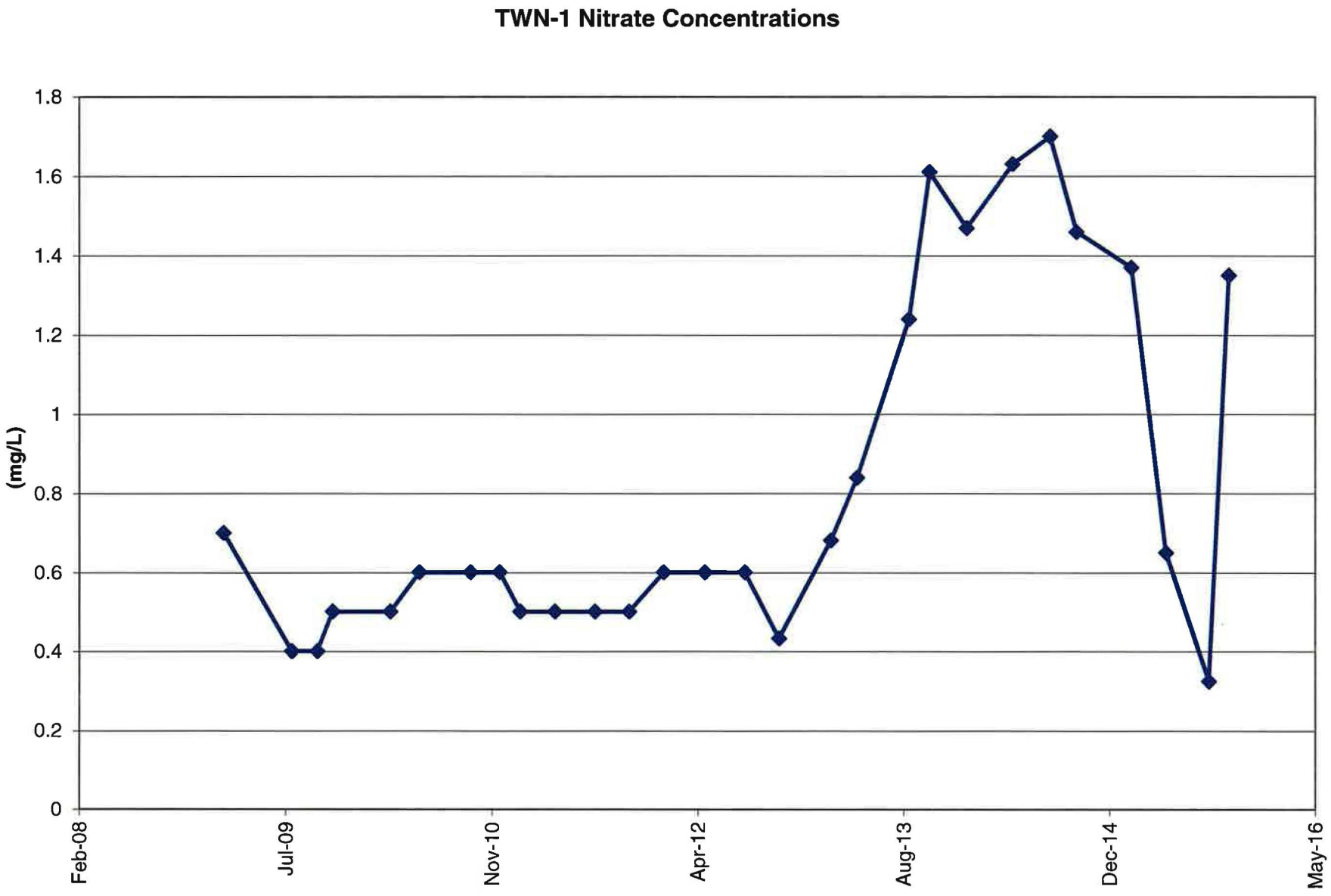
MW-31

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
4/7/2015	19.0		
5/11/2015	18.4		
6/23/2015	18.0		
7/6/2015	18.8		
8/10/2015	19.9		
9/15/2015	18.9		
11/9/2015	18.4		

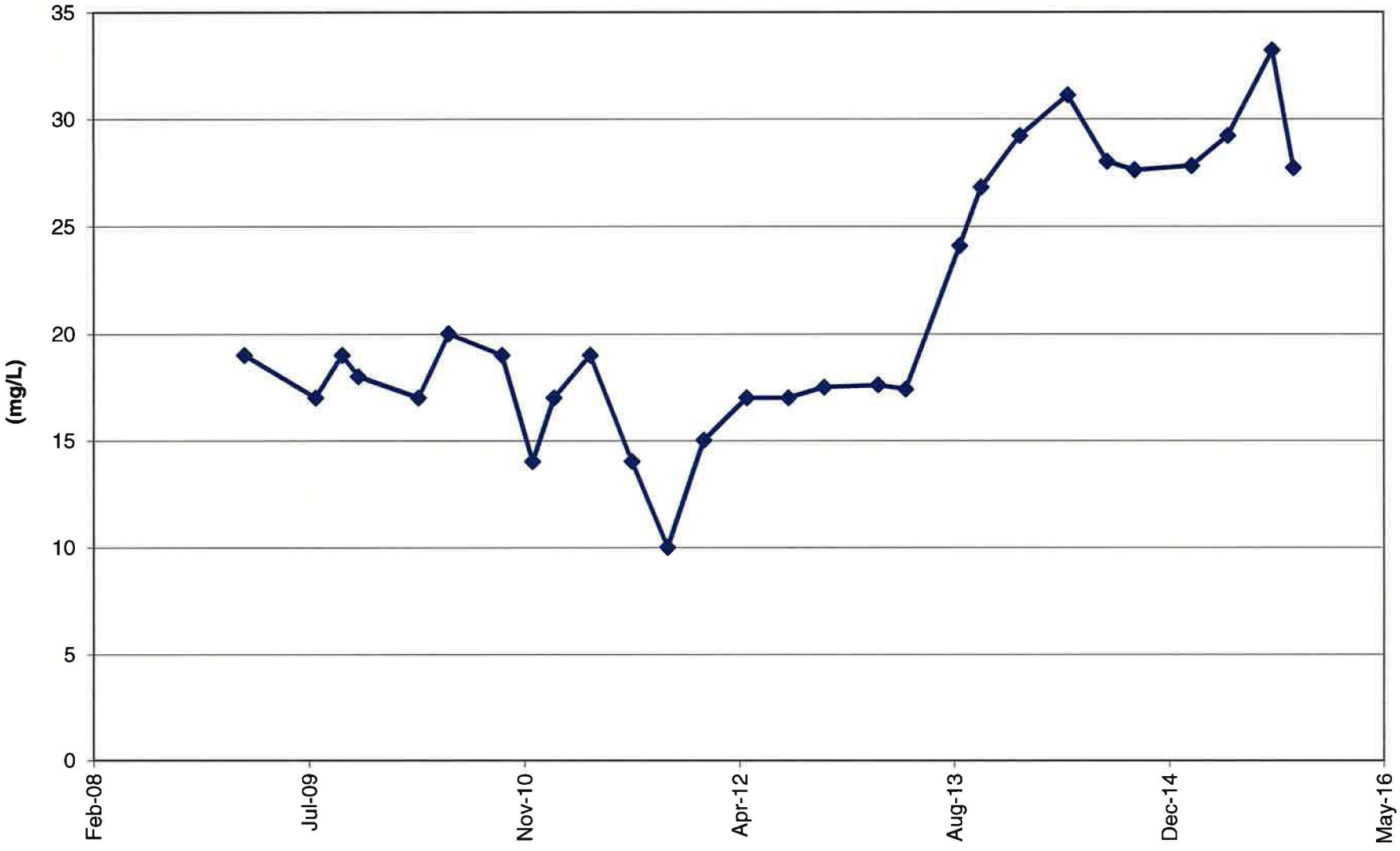
Under the groundwater sampling progran, accelerated monitoring for nitrate began in MW-31 prior to when the accelerated monitoring for chloride began. This difference accounts for the different number of data points represented above.

Tab K

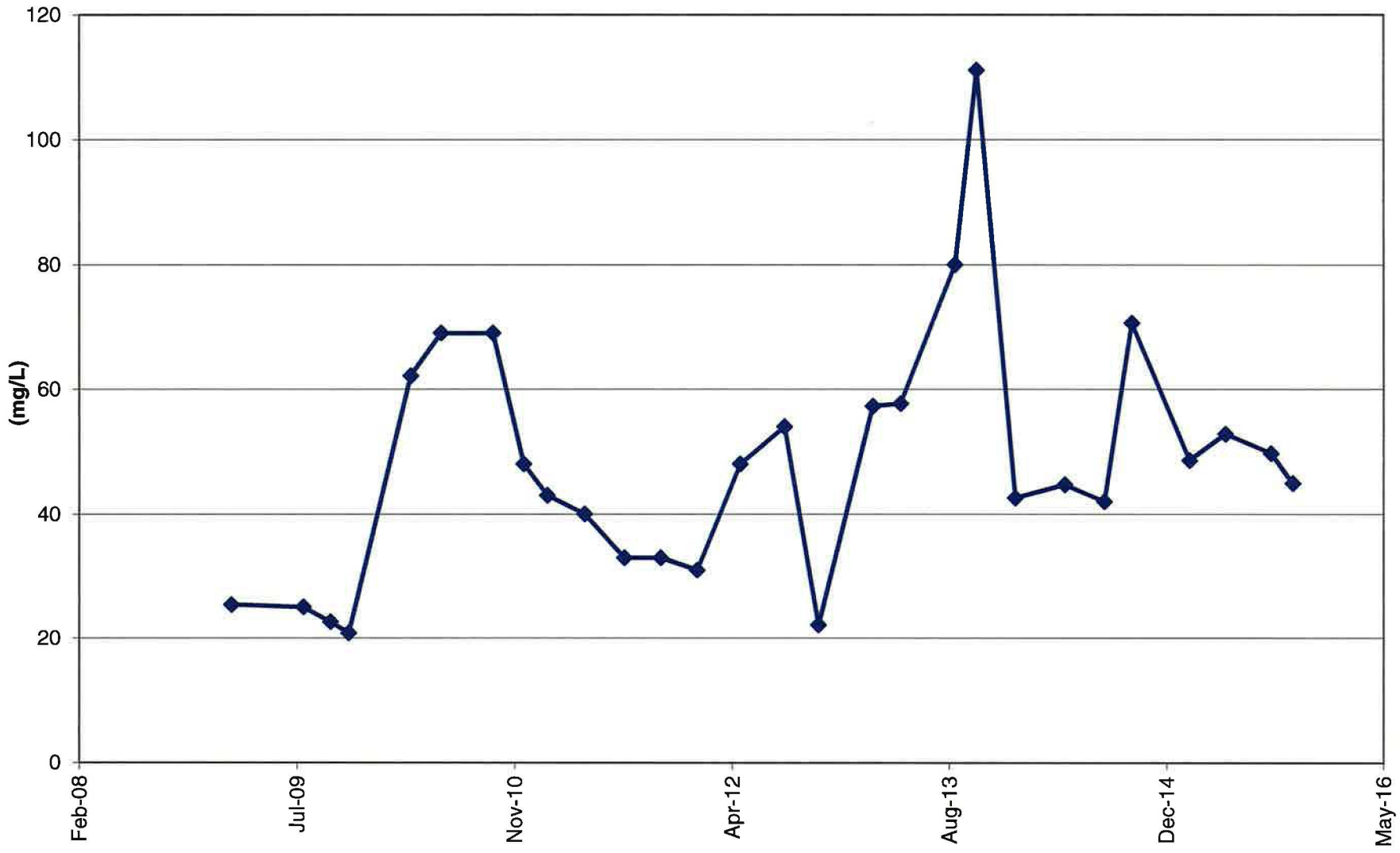
Concentration Trend Graphs


TWN-1 Nitrate Concentrations
(mg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

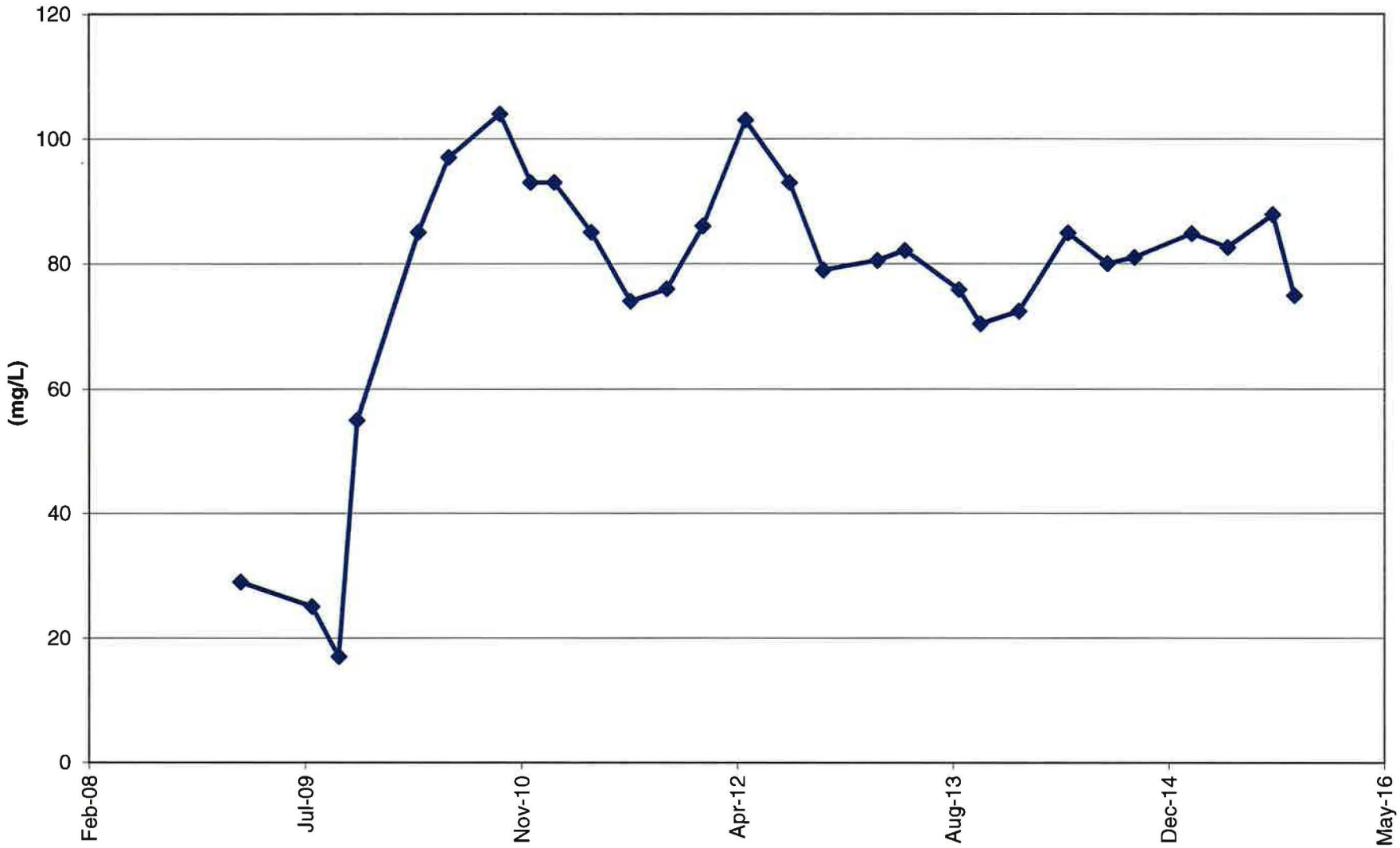
TWN-1 Chloride Concentrations



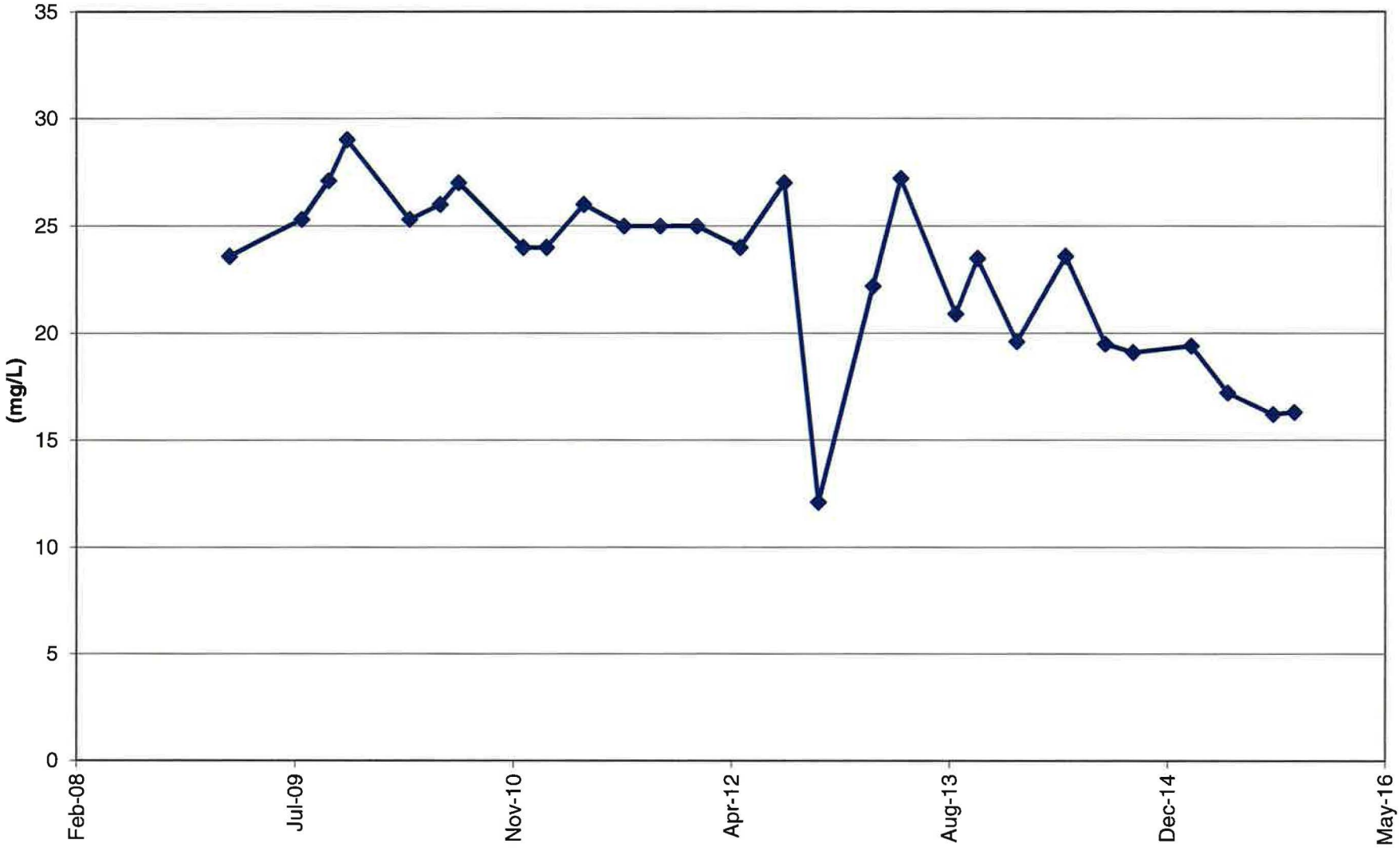
TWN-2 Nitrate Concentrations

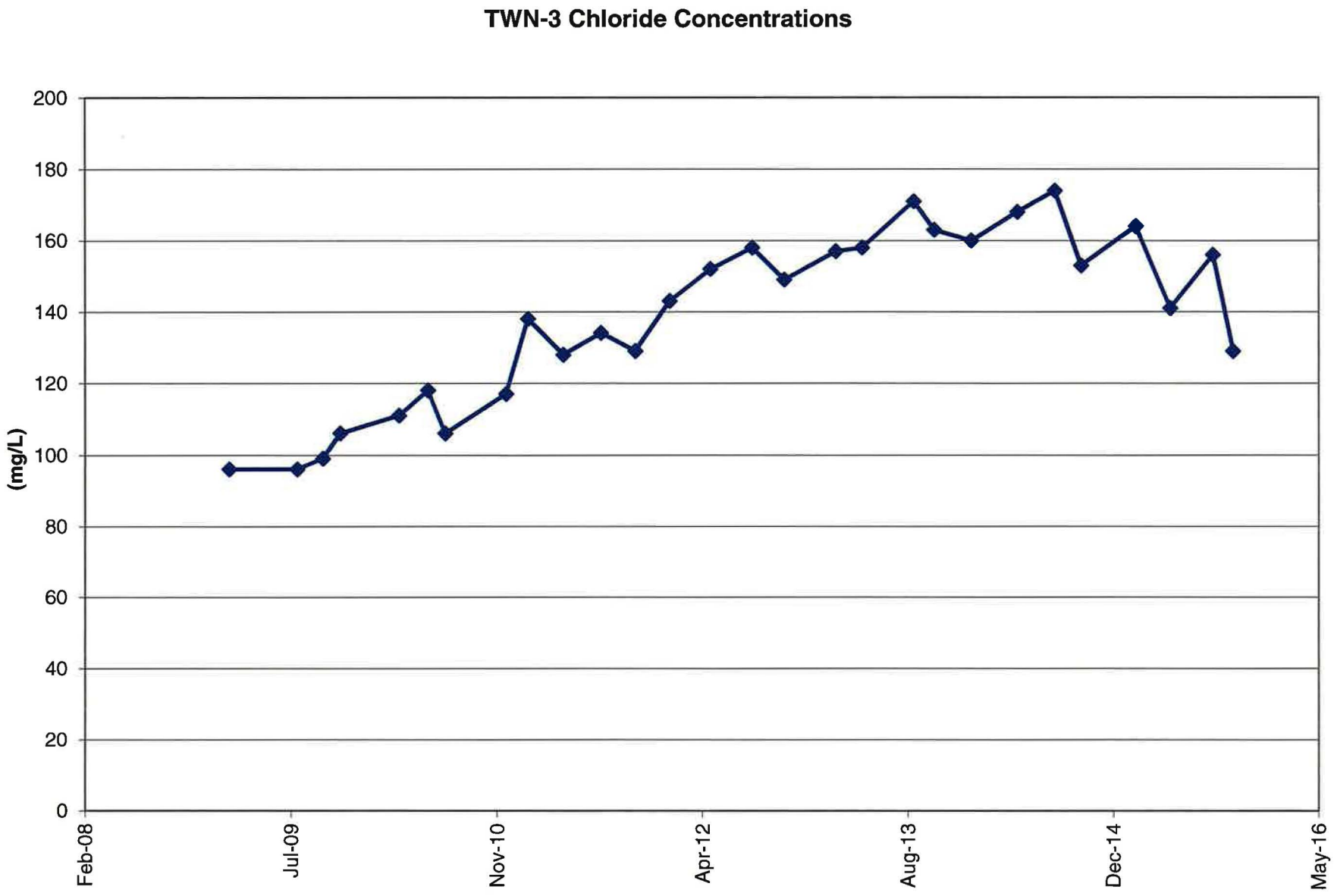


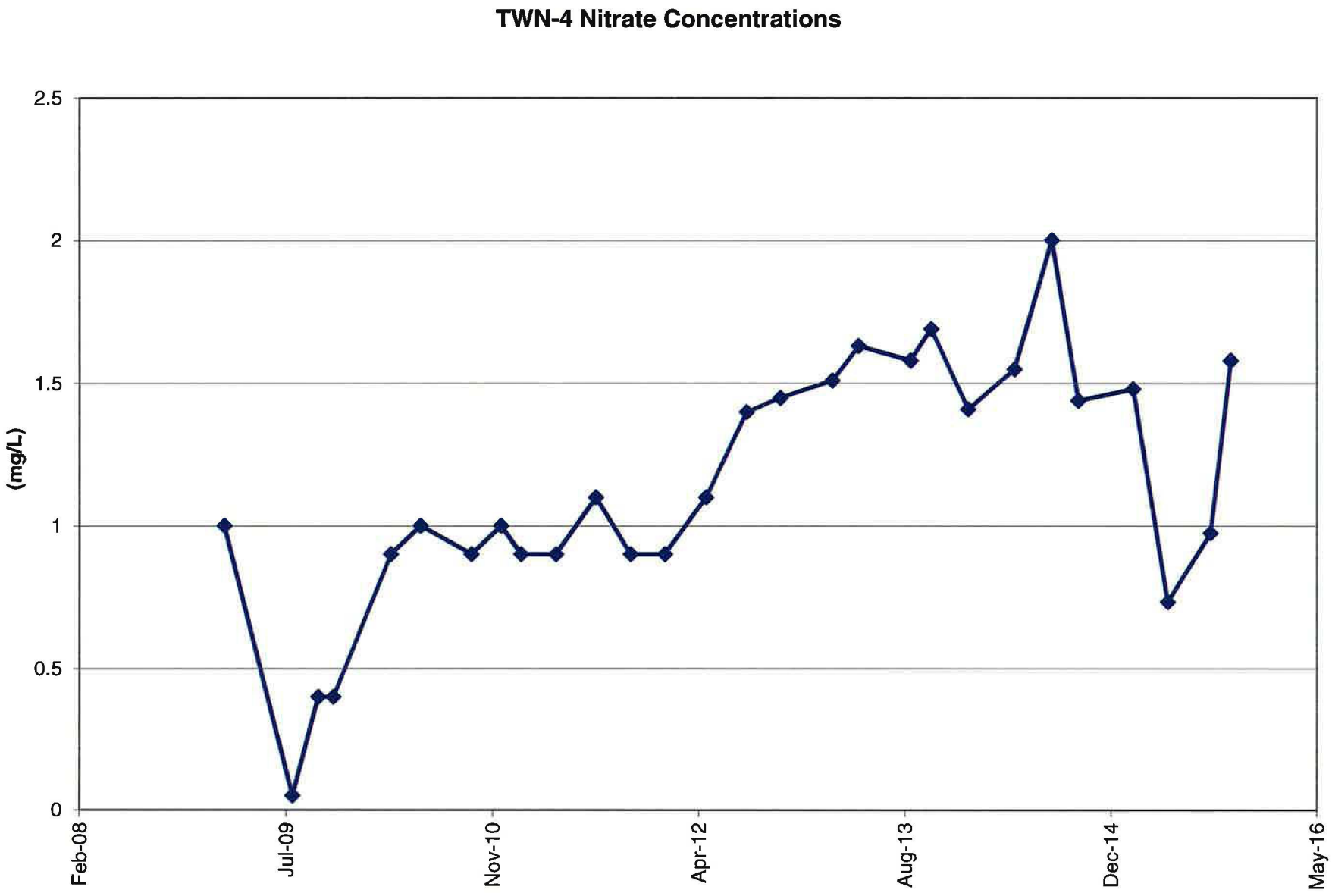
TWN-2 Chloride Concentrations



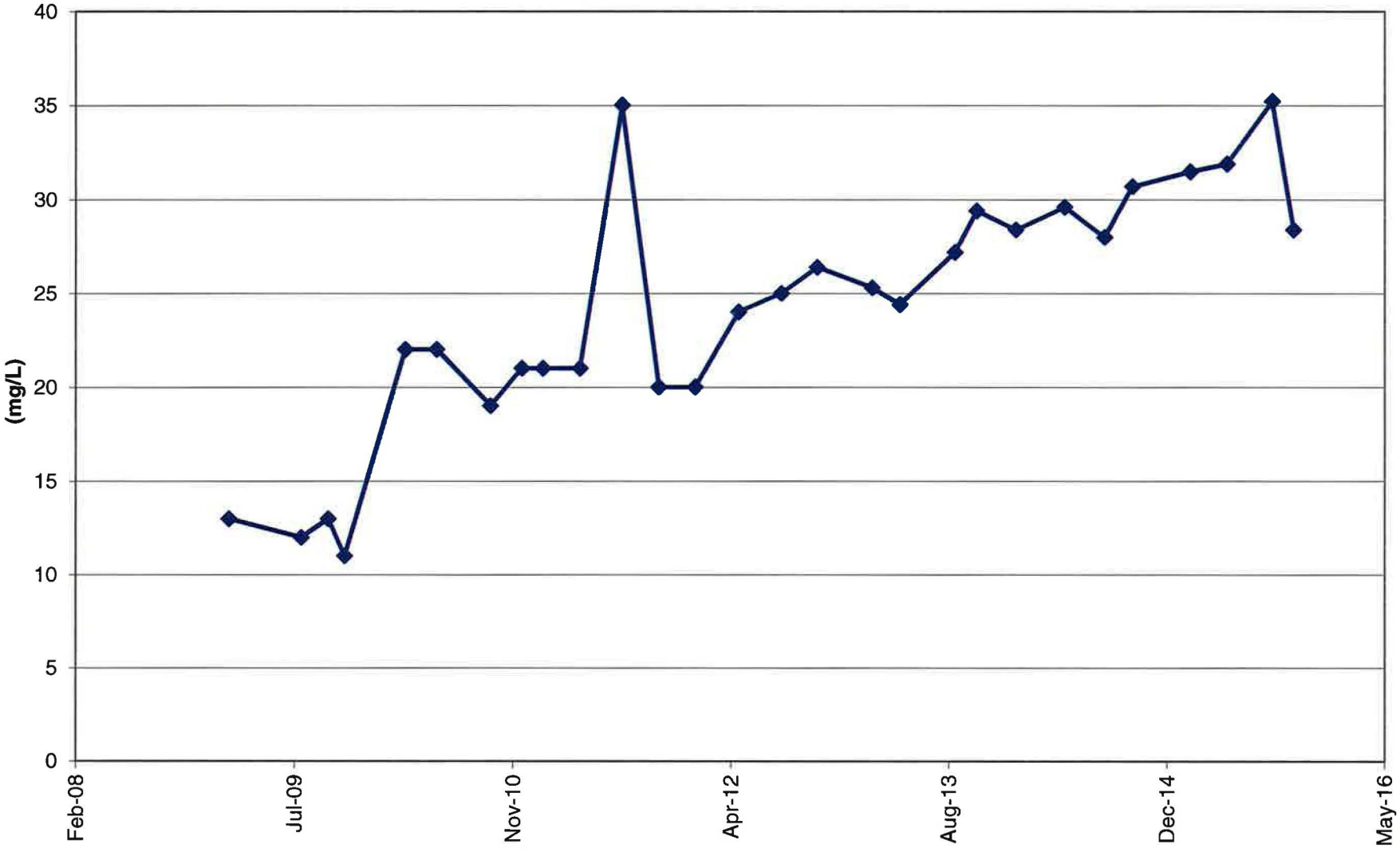
TWN-3 Nitrate Concentrations



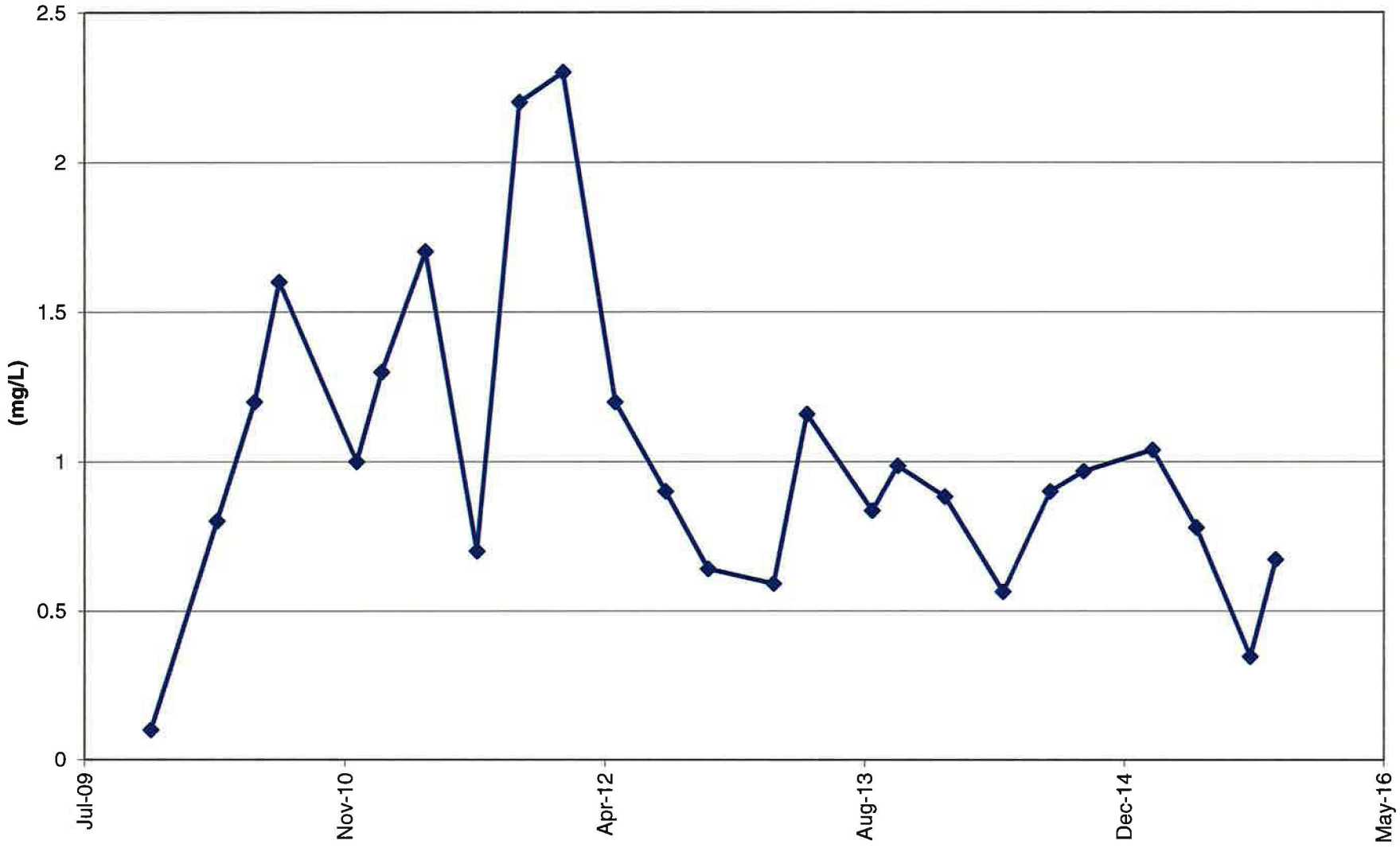

TWN-3 Chloride Concentrations
(mg/L)
200
180
160
140
120
100
80
60
40
20
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16


TWN-4 Nitrate Concentrations
(mg/L)
2.5
2
1.5
1
0.5
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

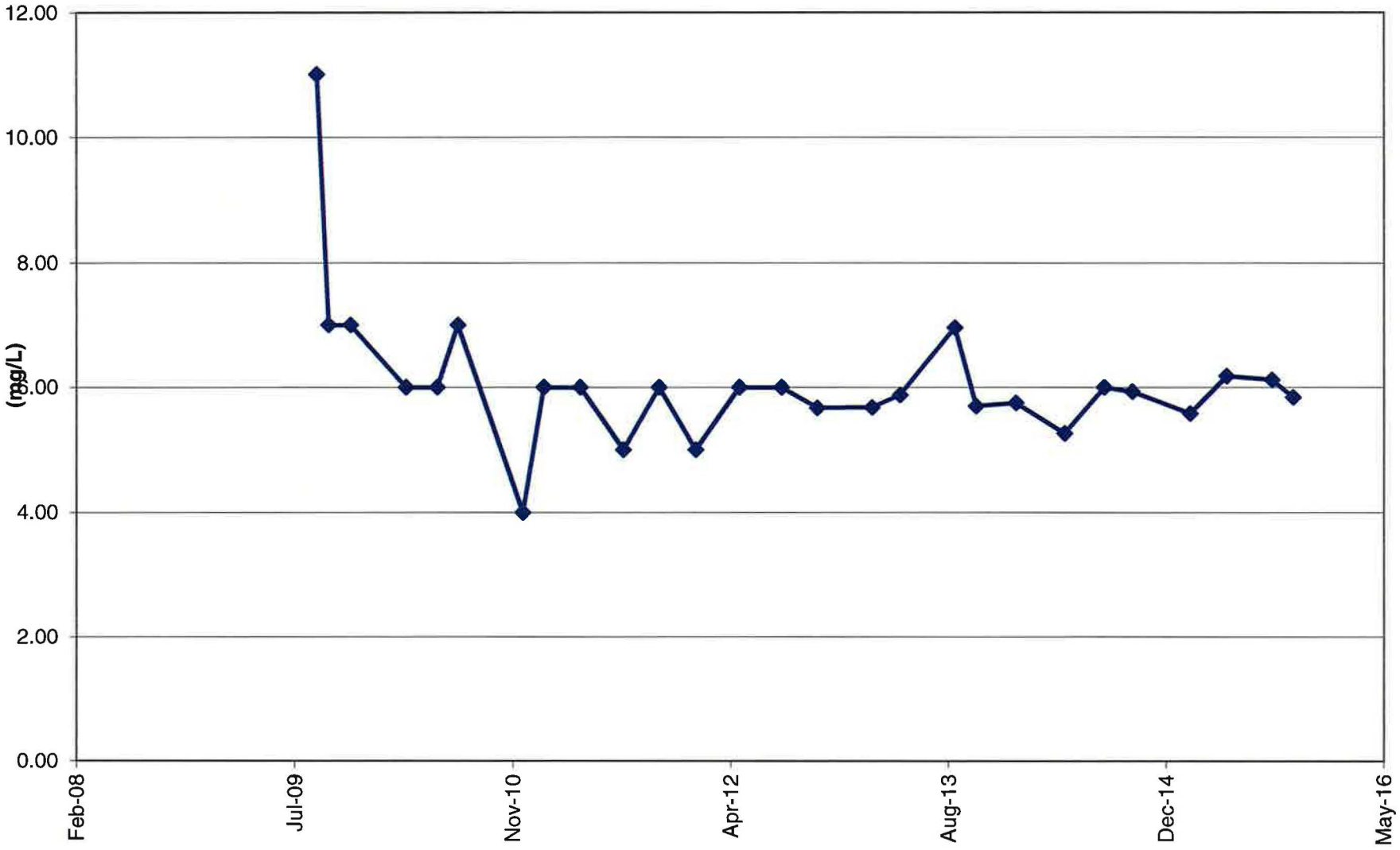
TWN-4 Chloride Concentrations

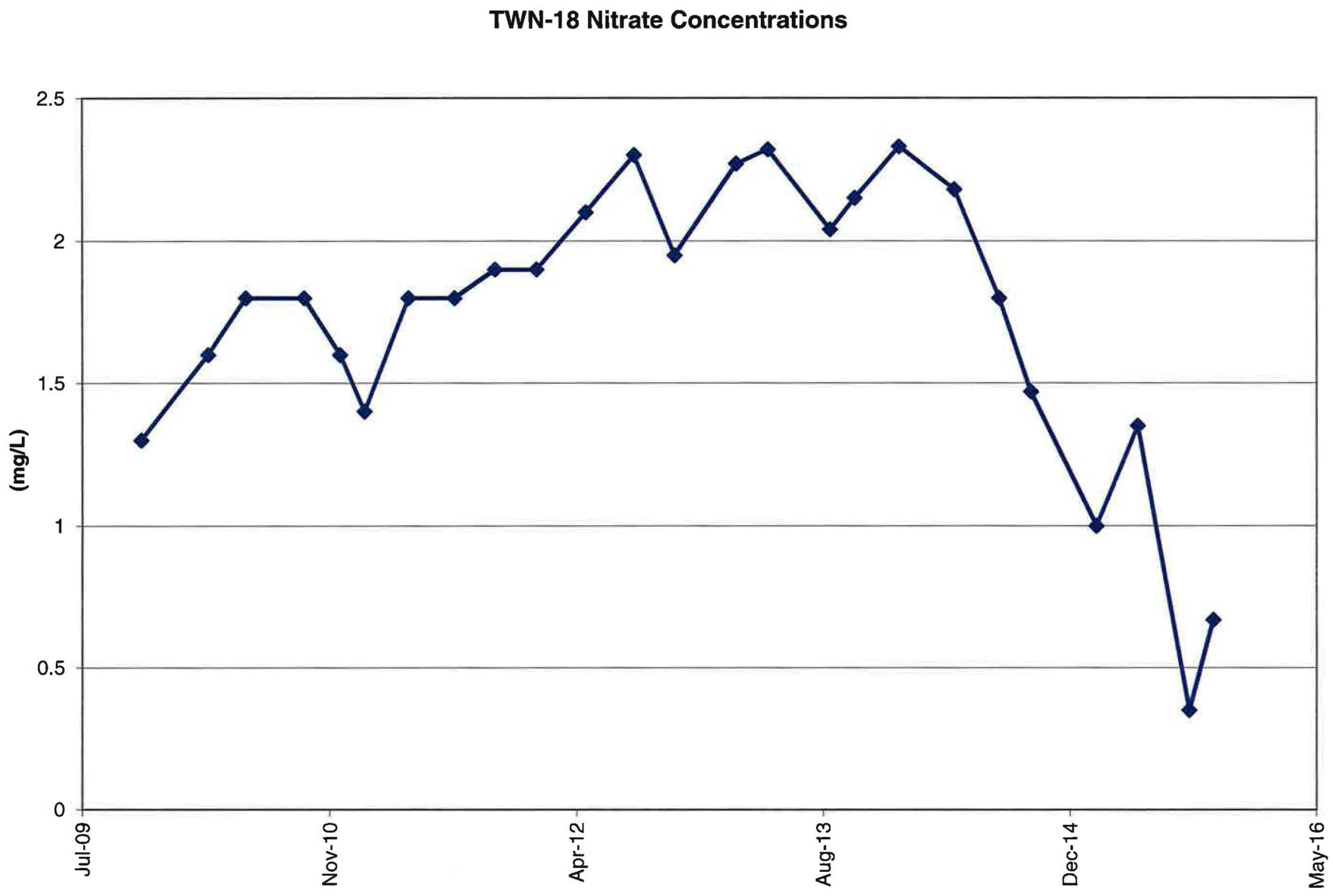


TWN-7 Nitrate Concentrations

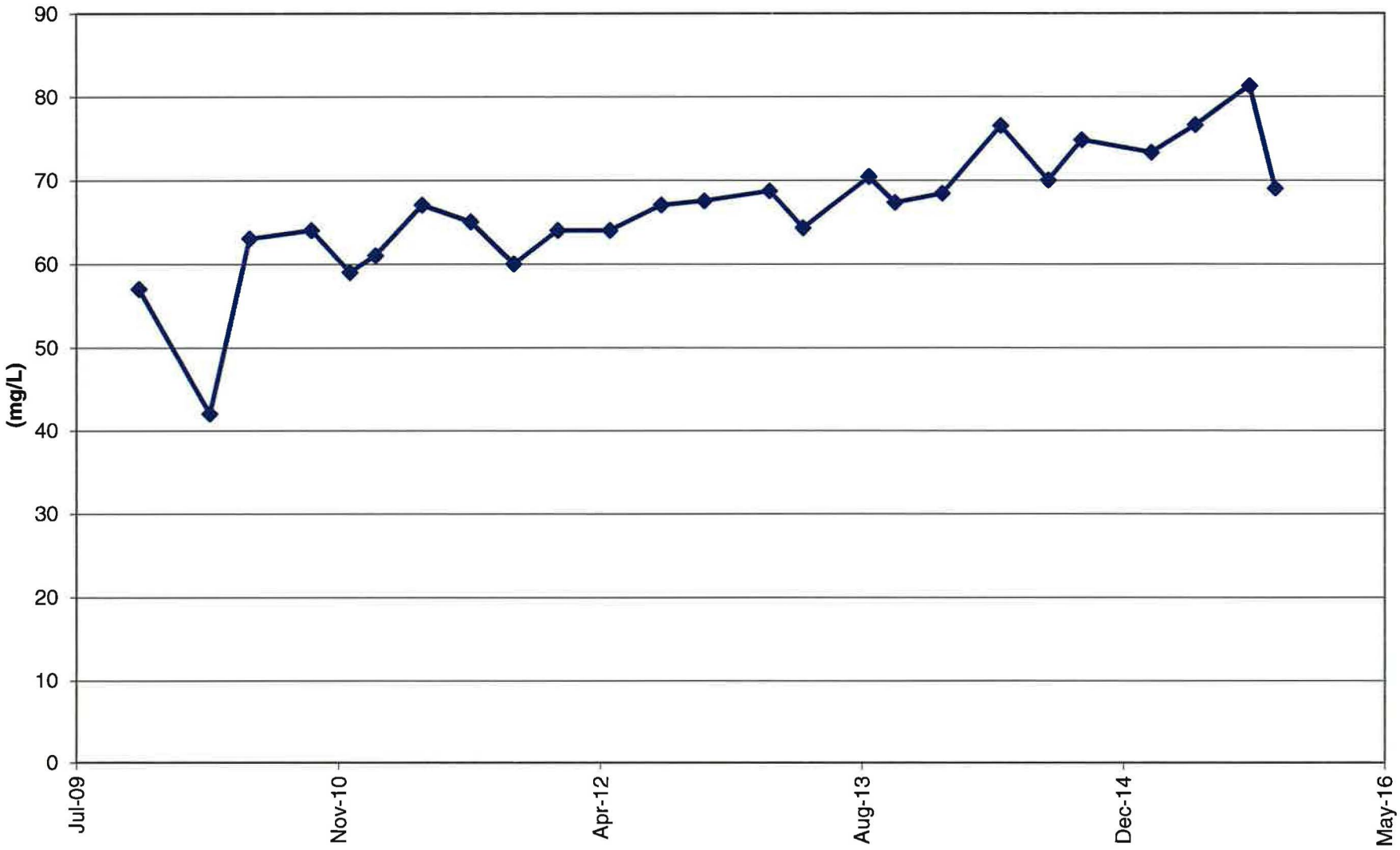


TWN-7 Chloride Concentrations

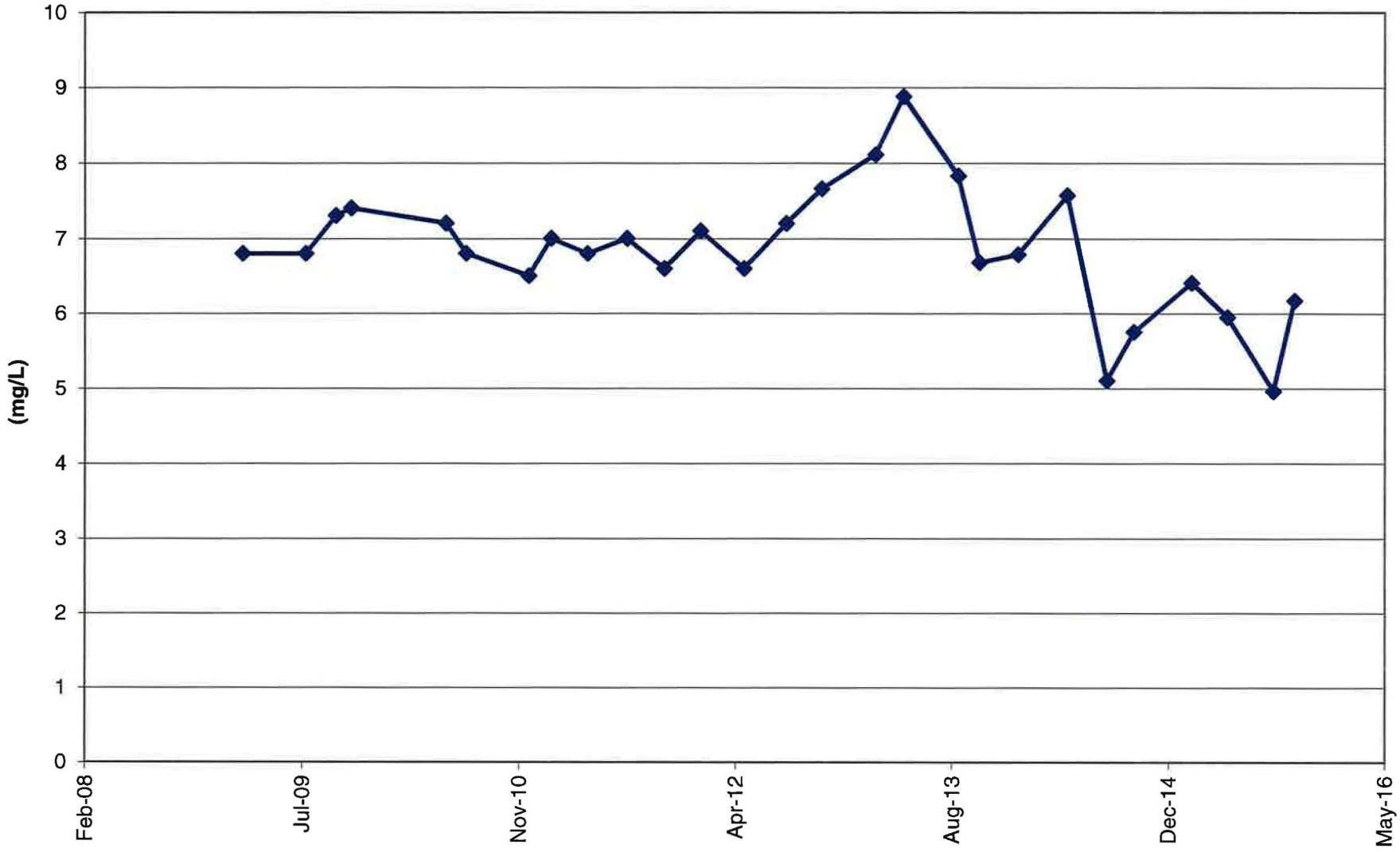



TWN-18 Nitrate Concentrations
(mg/L)
2.5
2
1.5
1
0.5
0
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

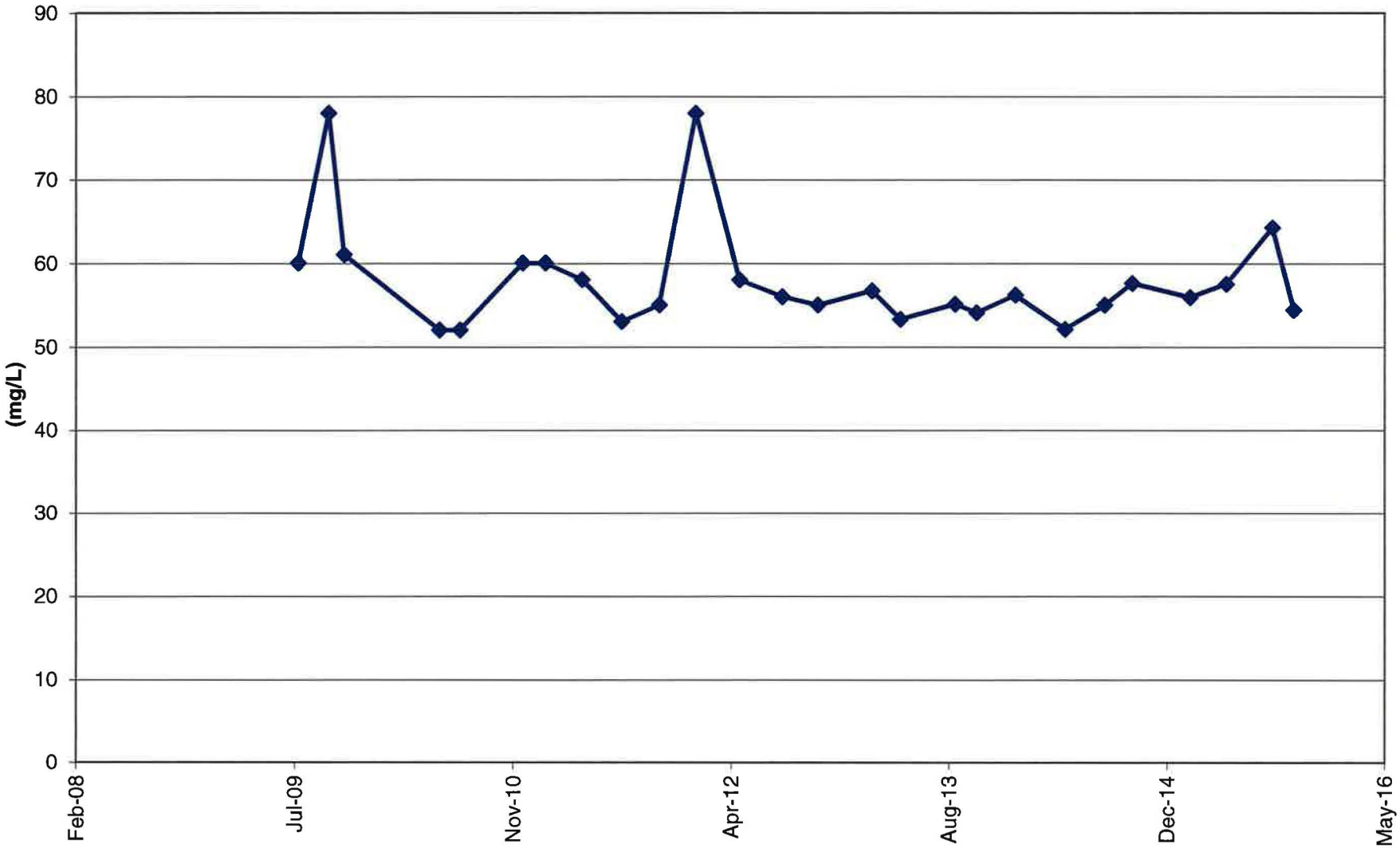
TWN-18 Chloride Concentrations



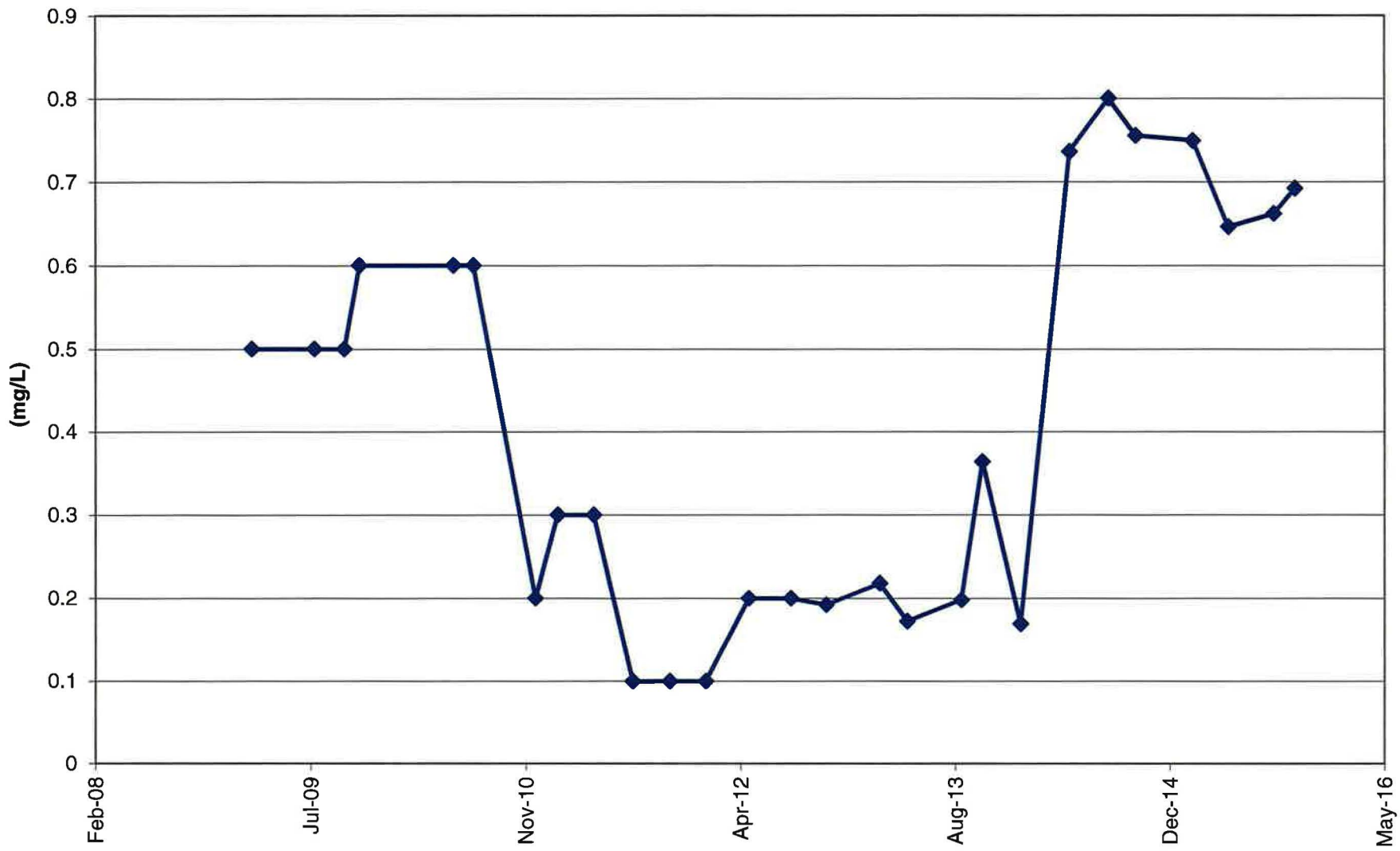
Piezometer 1 Nitrate Concentrations



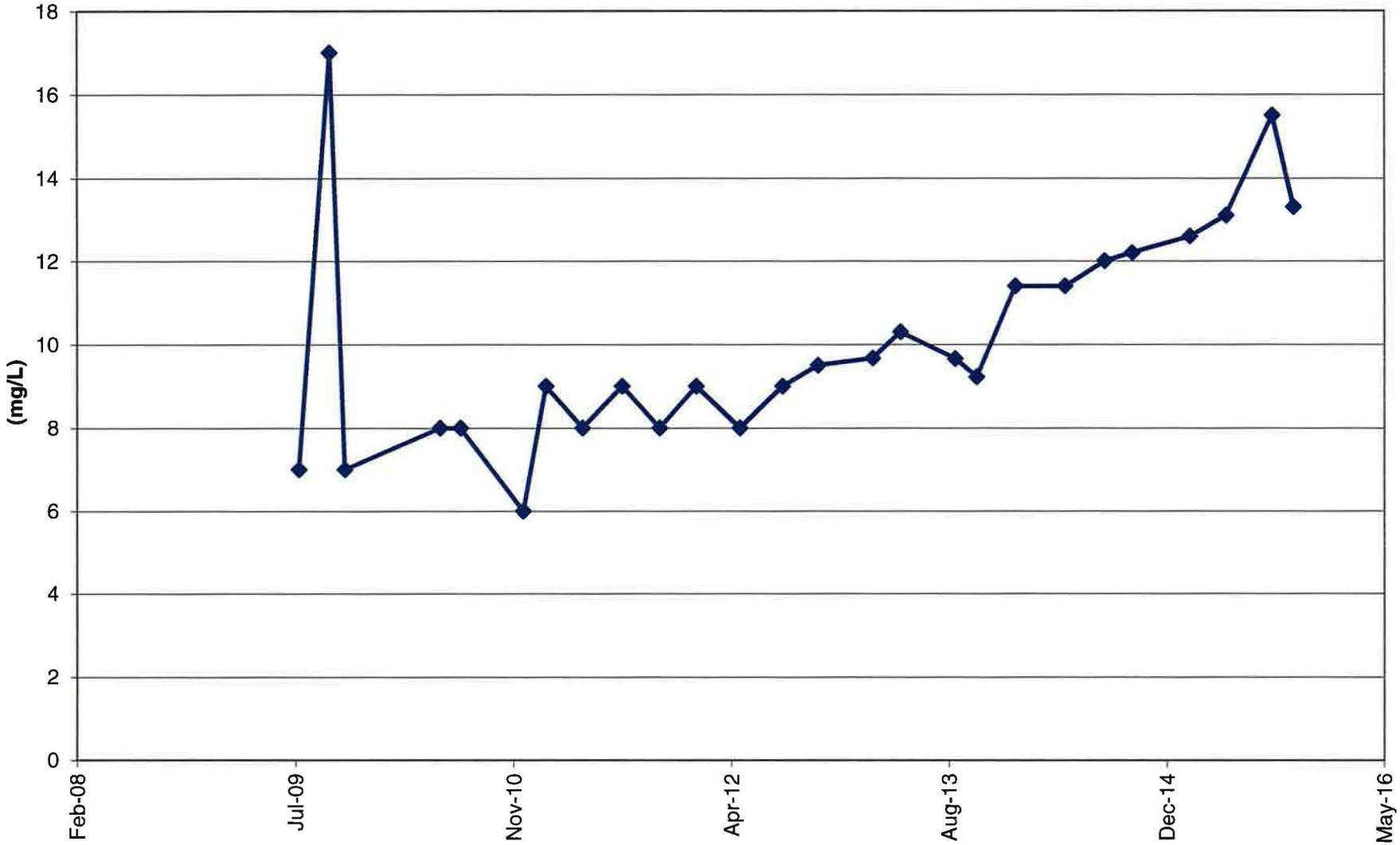
Piezometer 1 Chloride Concentrations



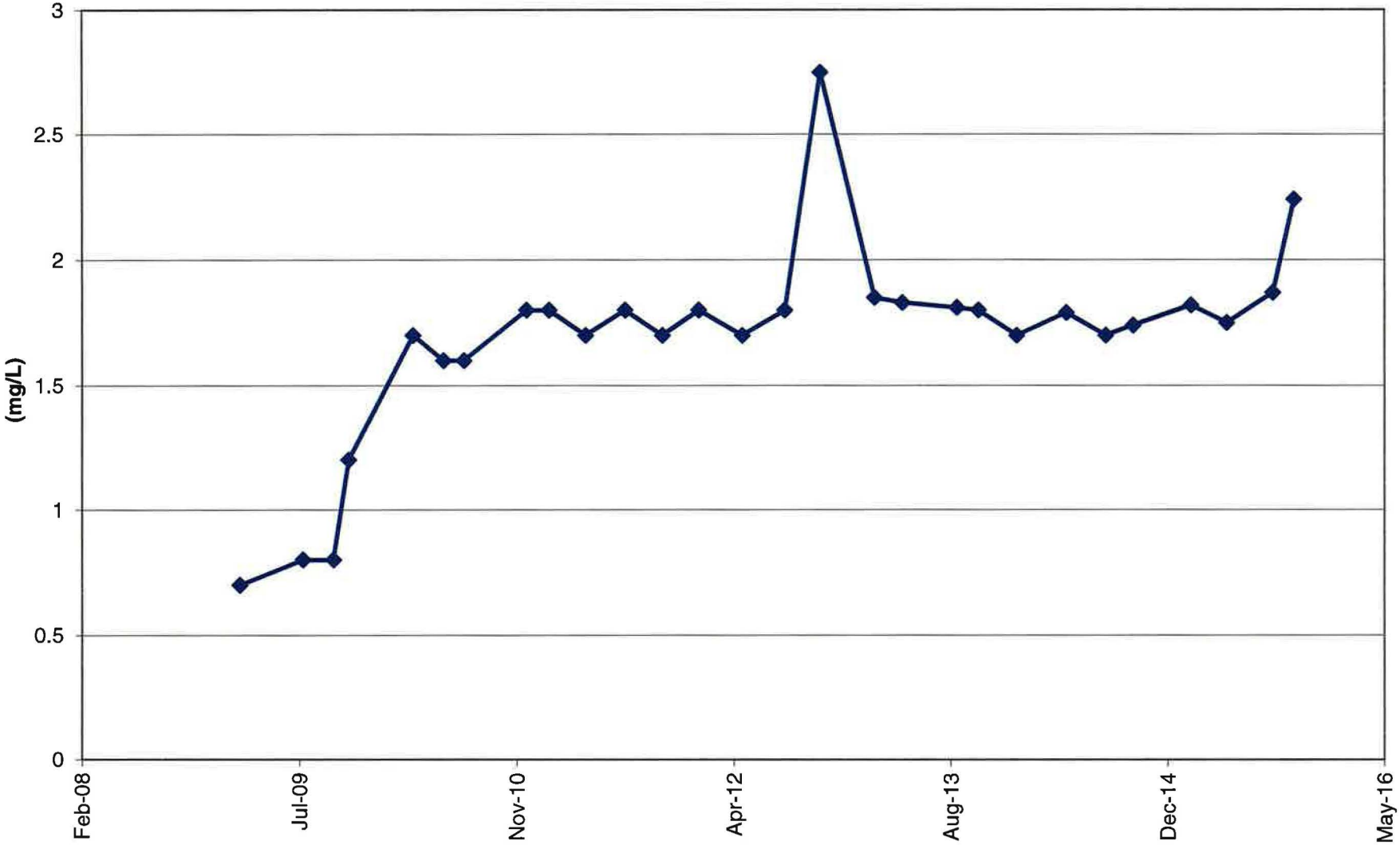
Piezometer 2 Nitrate Concentrations



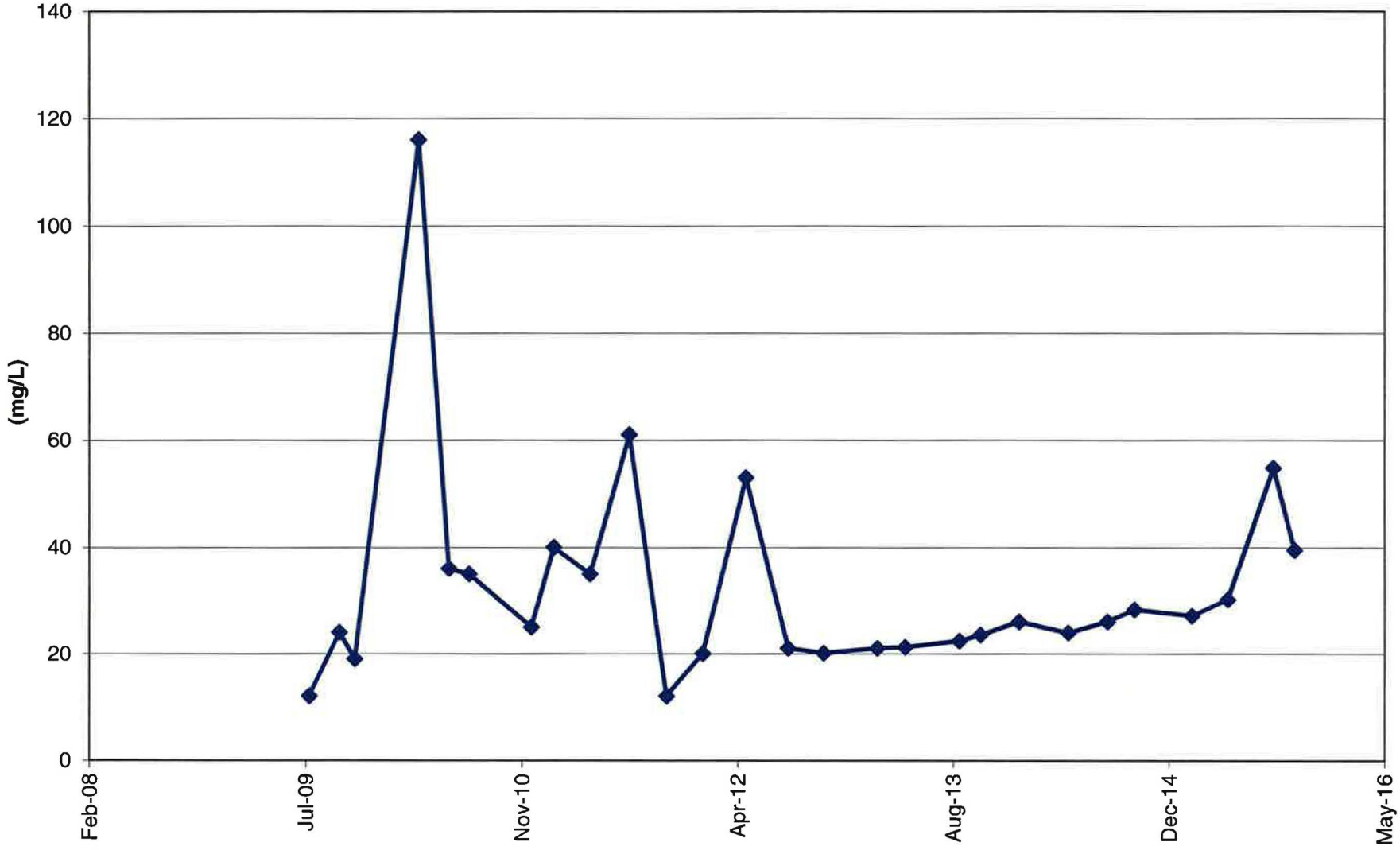
Piezometer 2 Chloride Concentrations

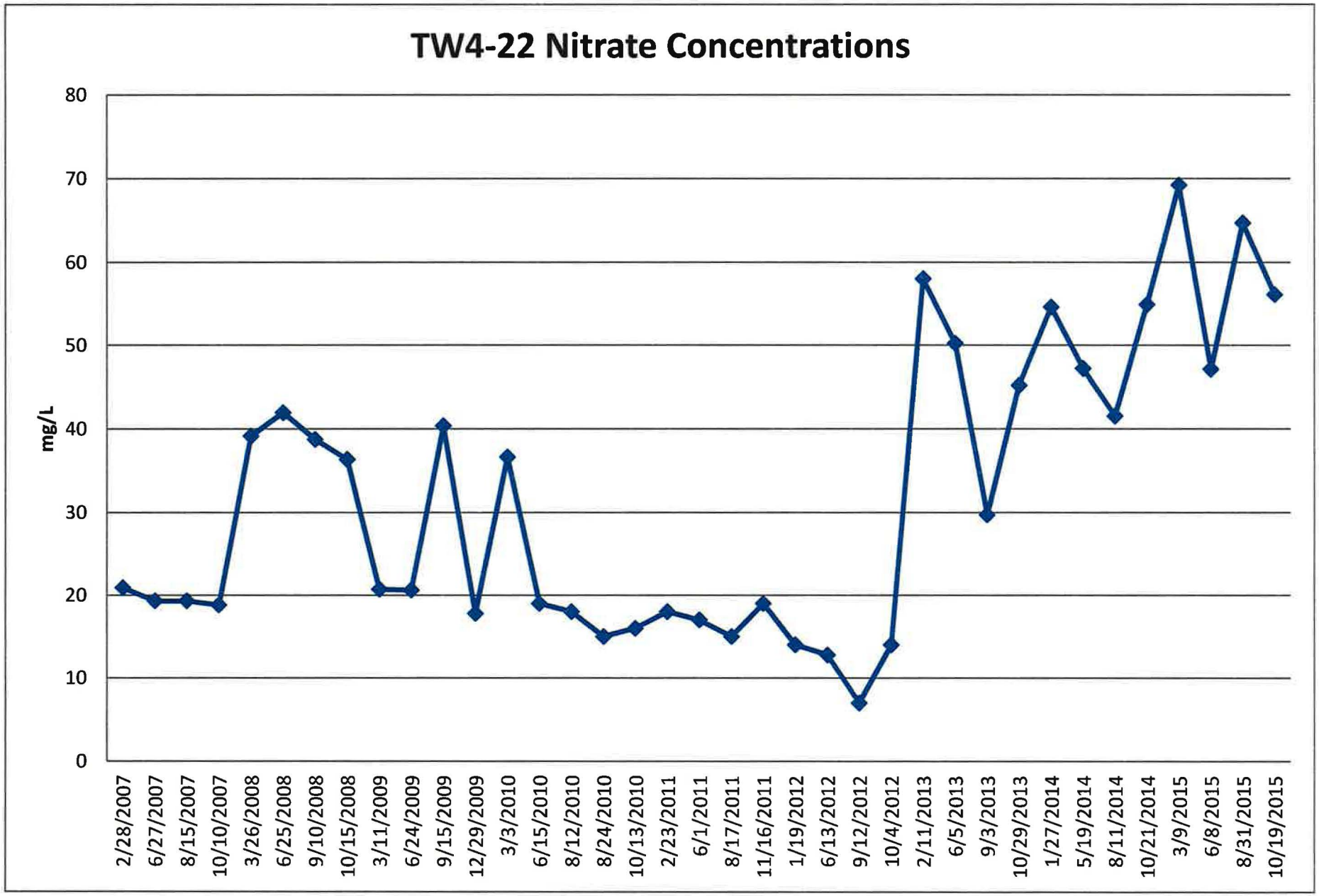


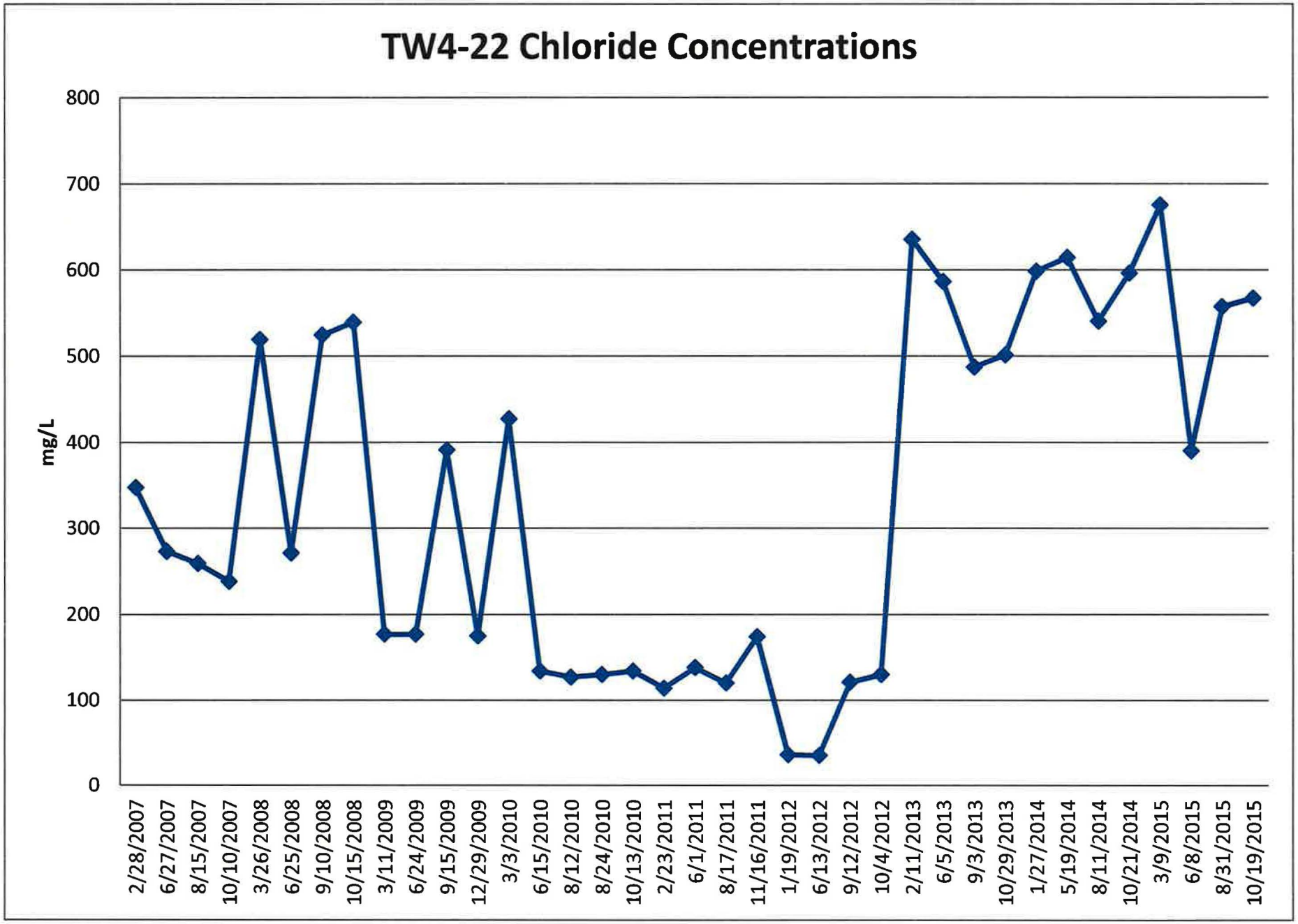
Piezometer 3 Nitrate Concentrations

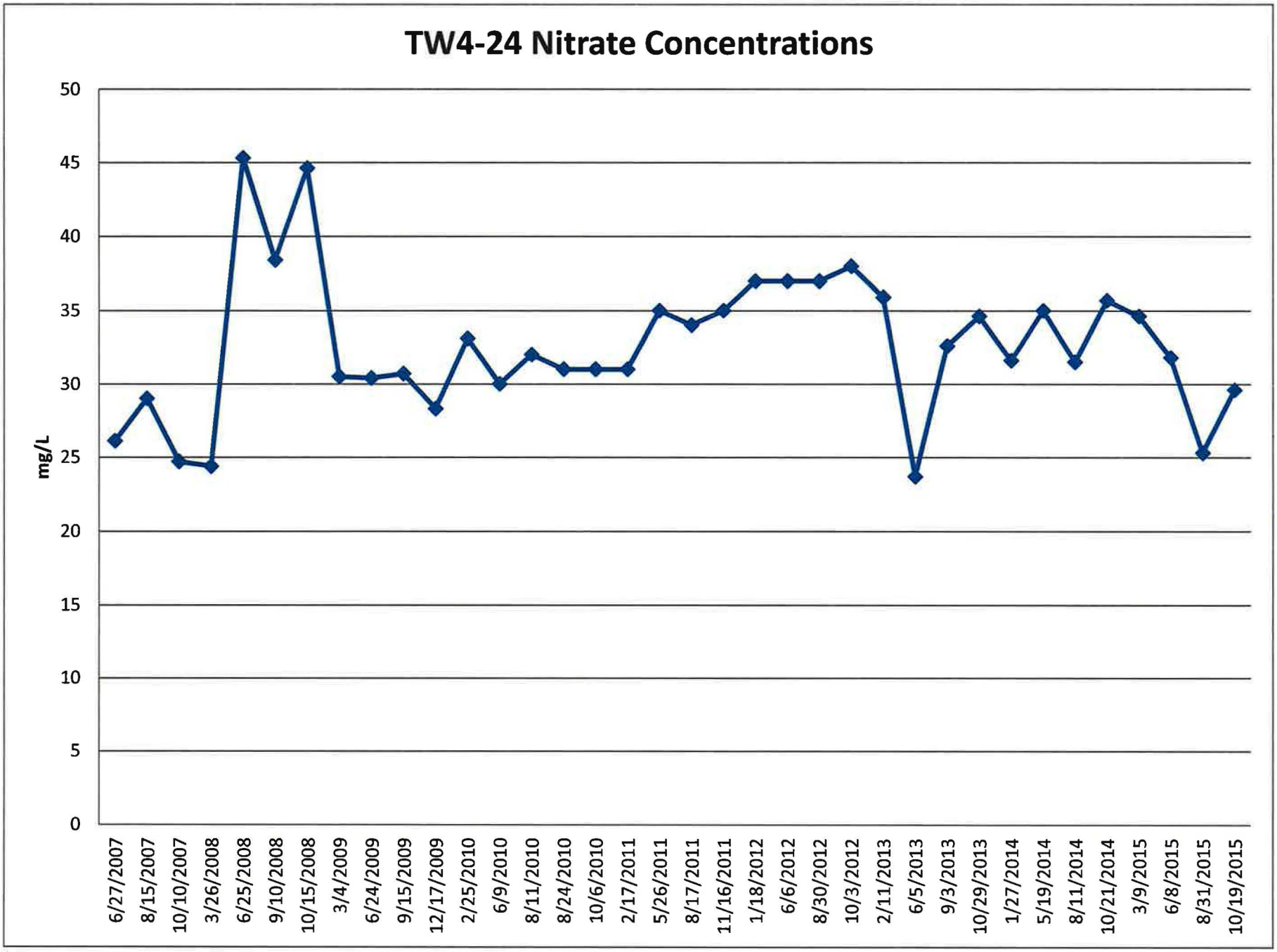


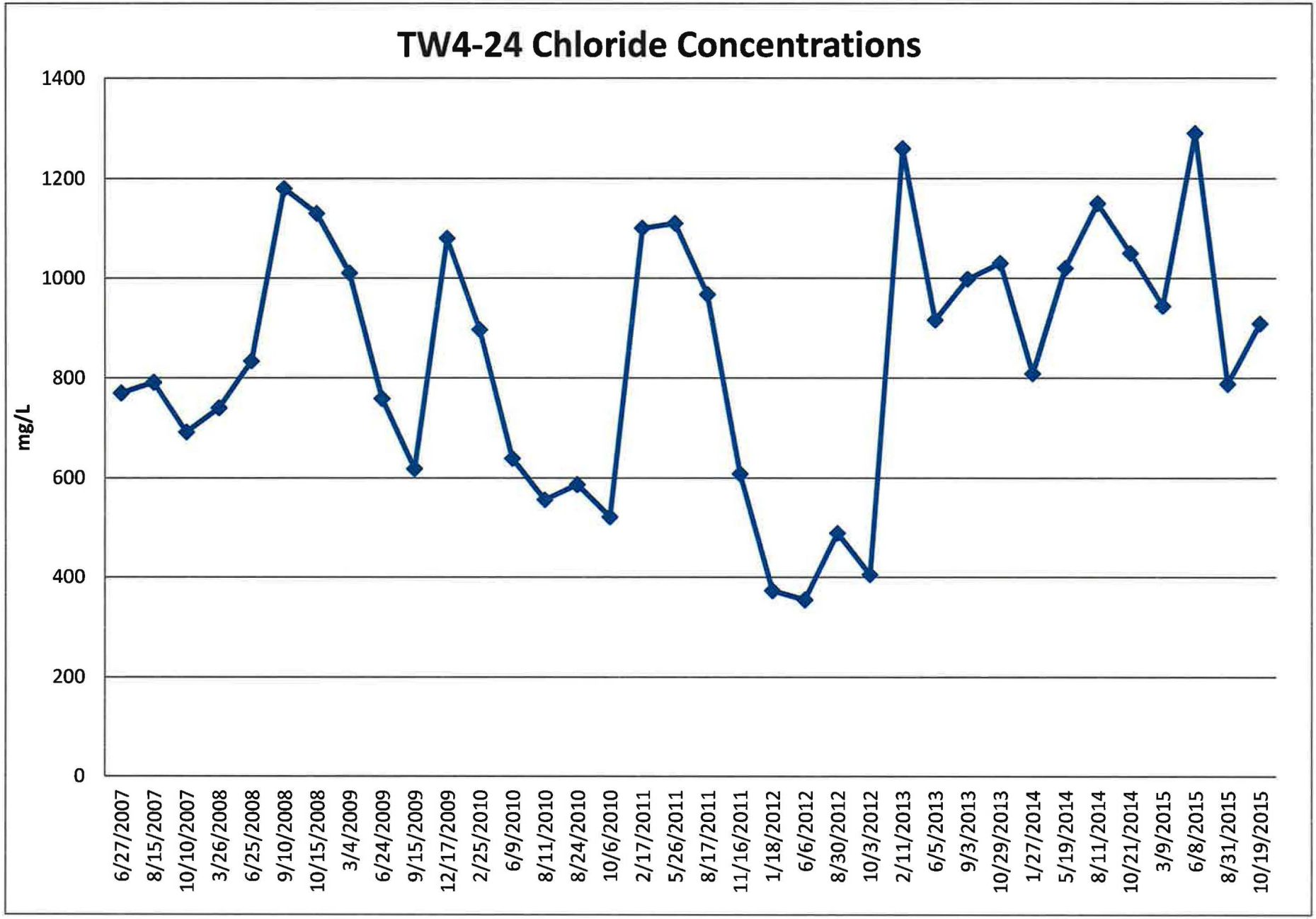
Piezometer 3 Chloride Concentrations

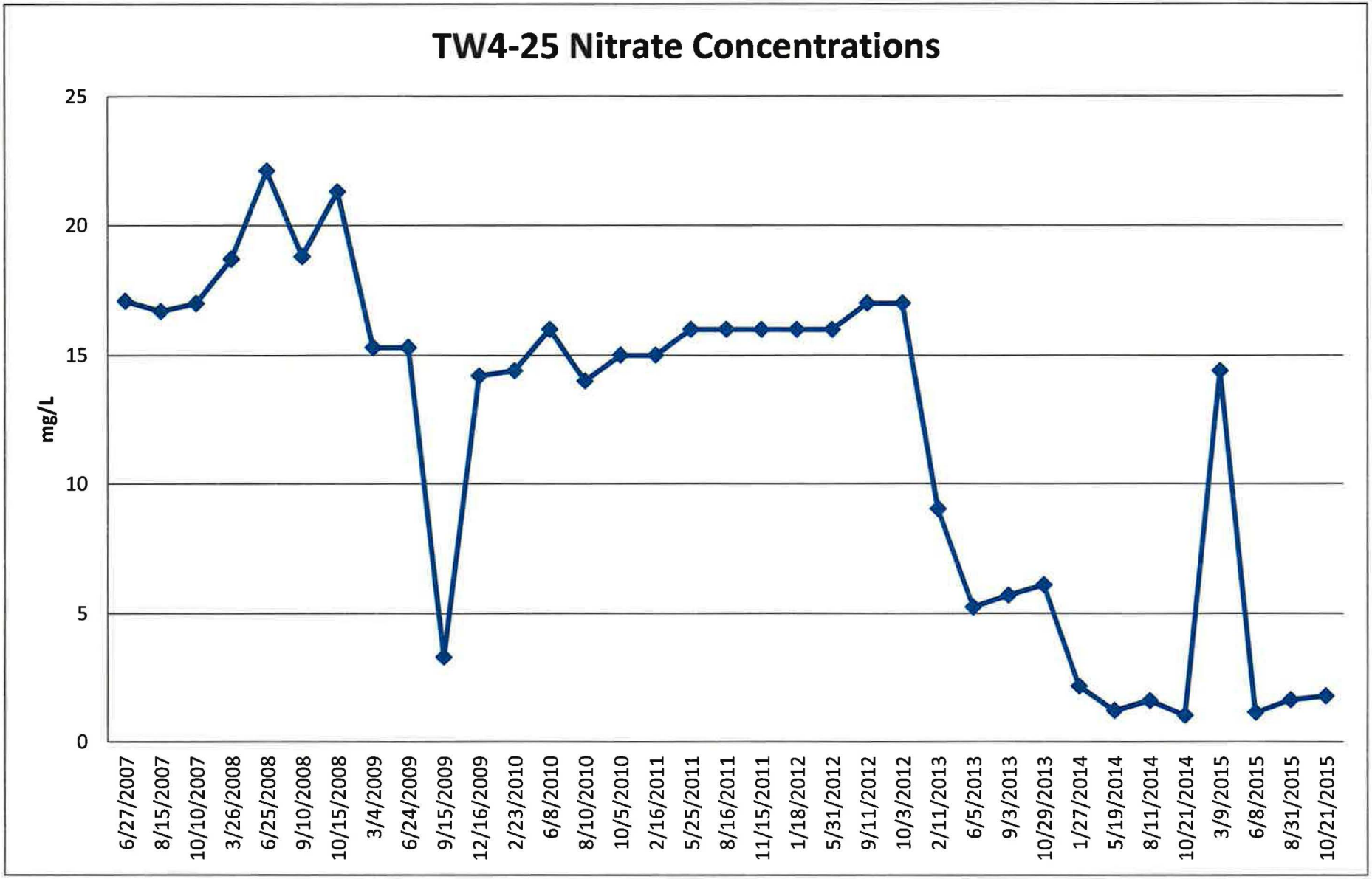


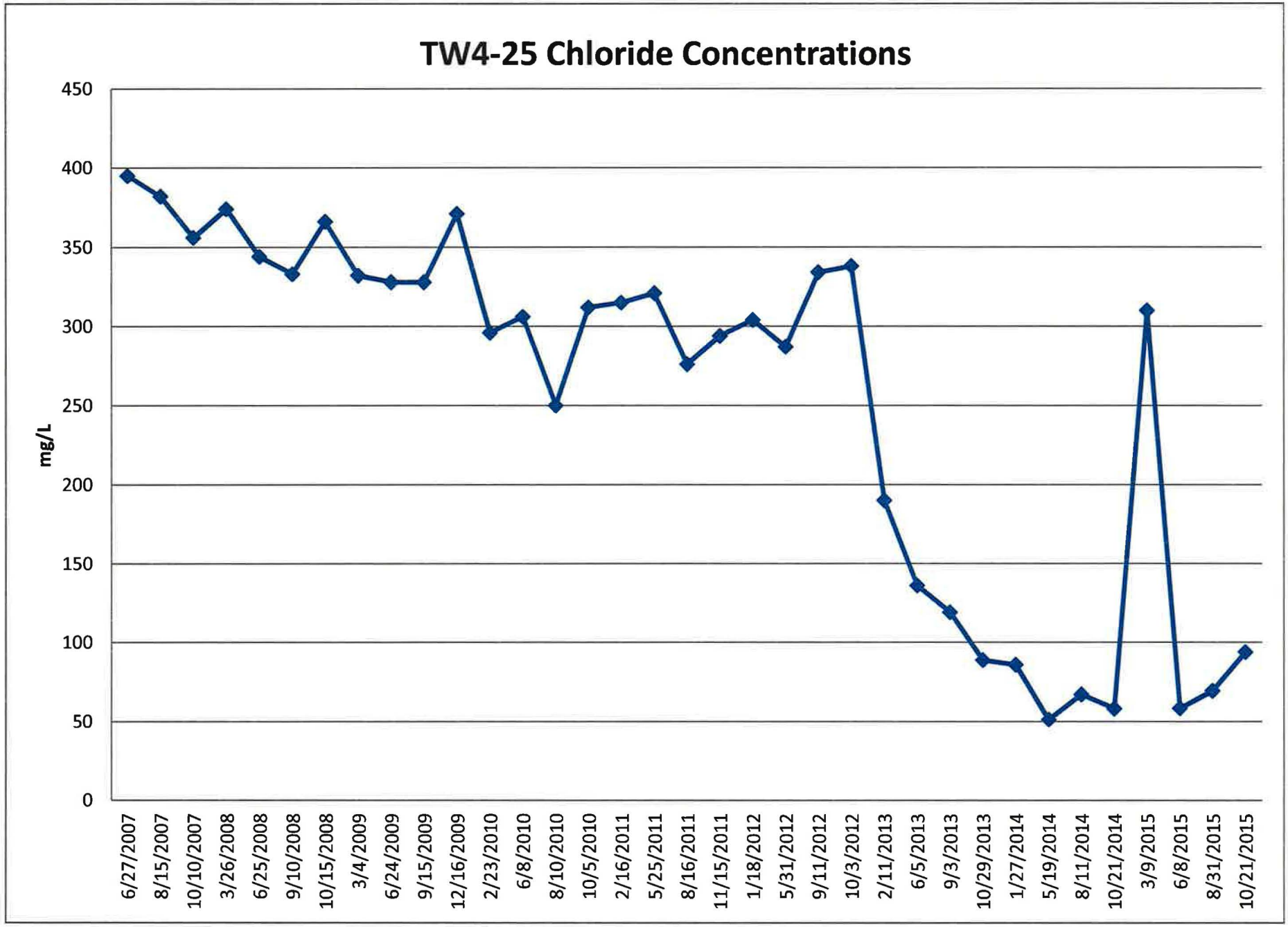

TW4-22 Nitrate Concentrations
mg/L
80
70
60
50
40
30
20
10
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/19/2015

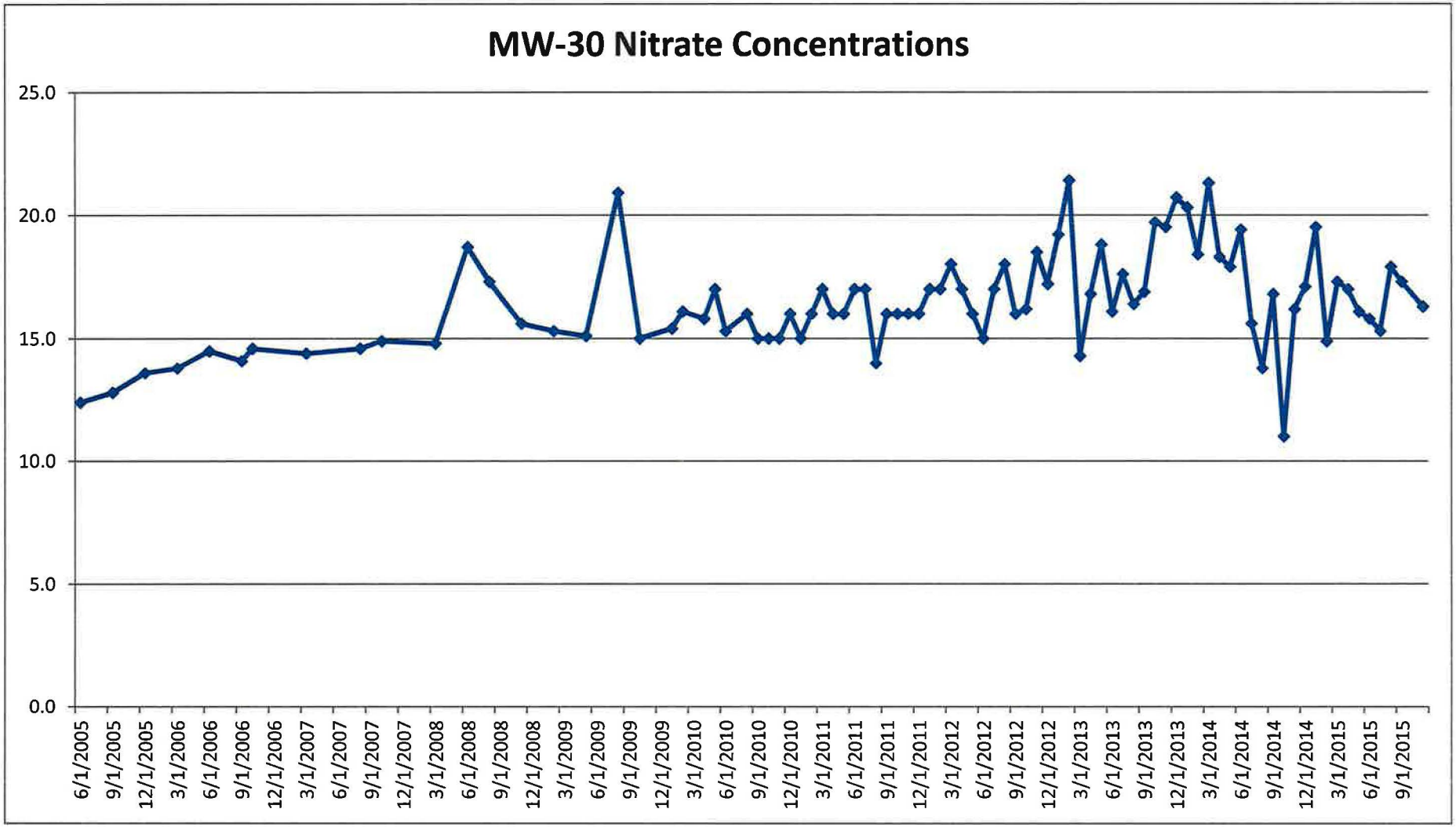

TW4-22 Chloride Concentrations
mg/L
800
700
600
500
400
300
200
100
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/19/2015

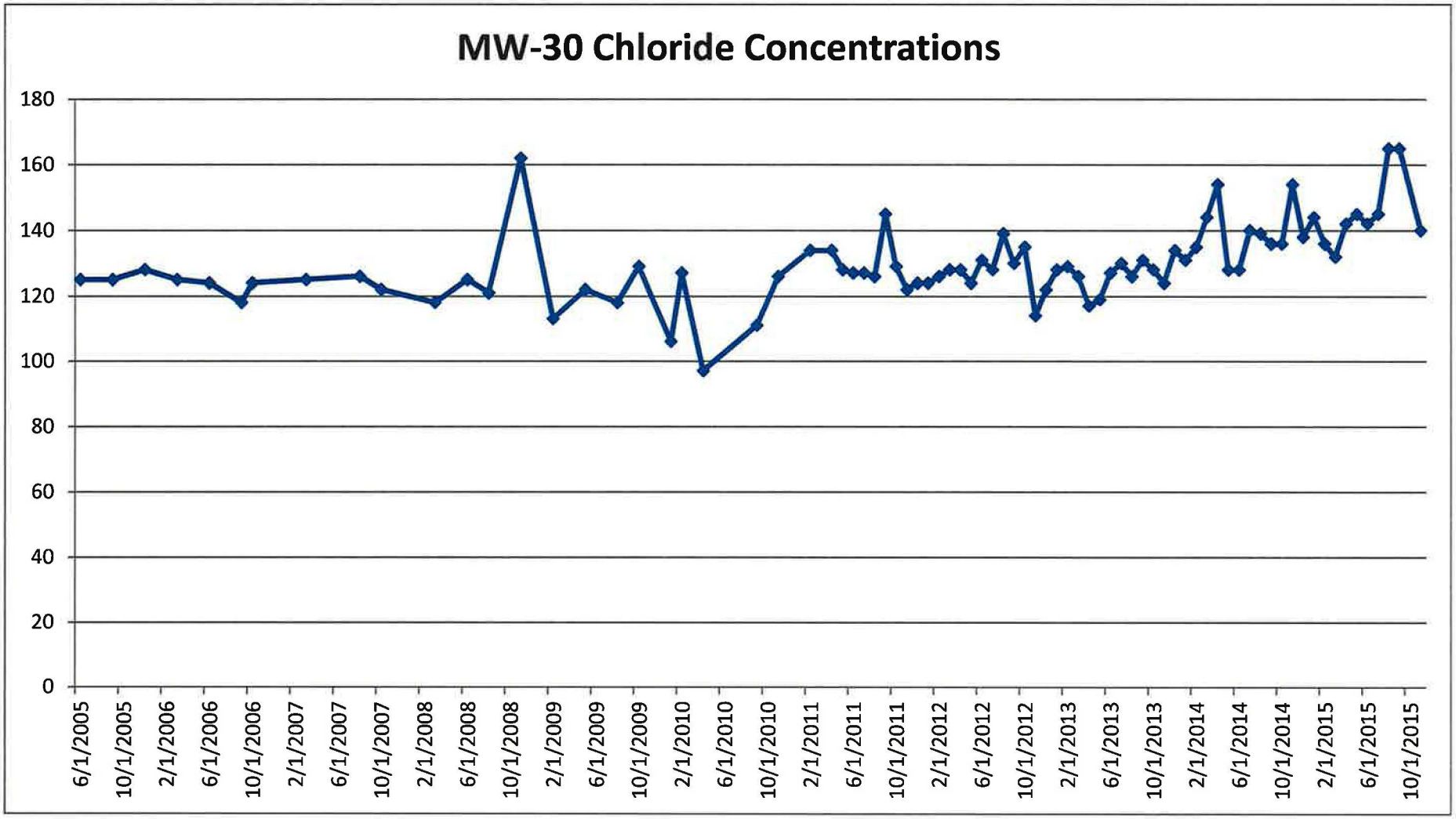

TW4-24 Nitrate Concentrations
mg/L
50
45
40
35
30
25
20
15
10
5
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/17/2009
2/25/2010
6/9/2010
8/11/2010
8/24/2010
10/6/2010
2/17/2011
5/26/2011
8/17/2011
11/16/2011
1/18/2012
6/6/2012
8/30/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/19/2015


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
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/19/2015


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
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/21/2015


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
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015
8/31/2015
10/21/2015


MW-30 Nitrate Concentrations
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015
9/1/2015


MW-30 Chloride Concentrations
180
160
140
120
100
80
60
40
20
0
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
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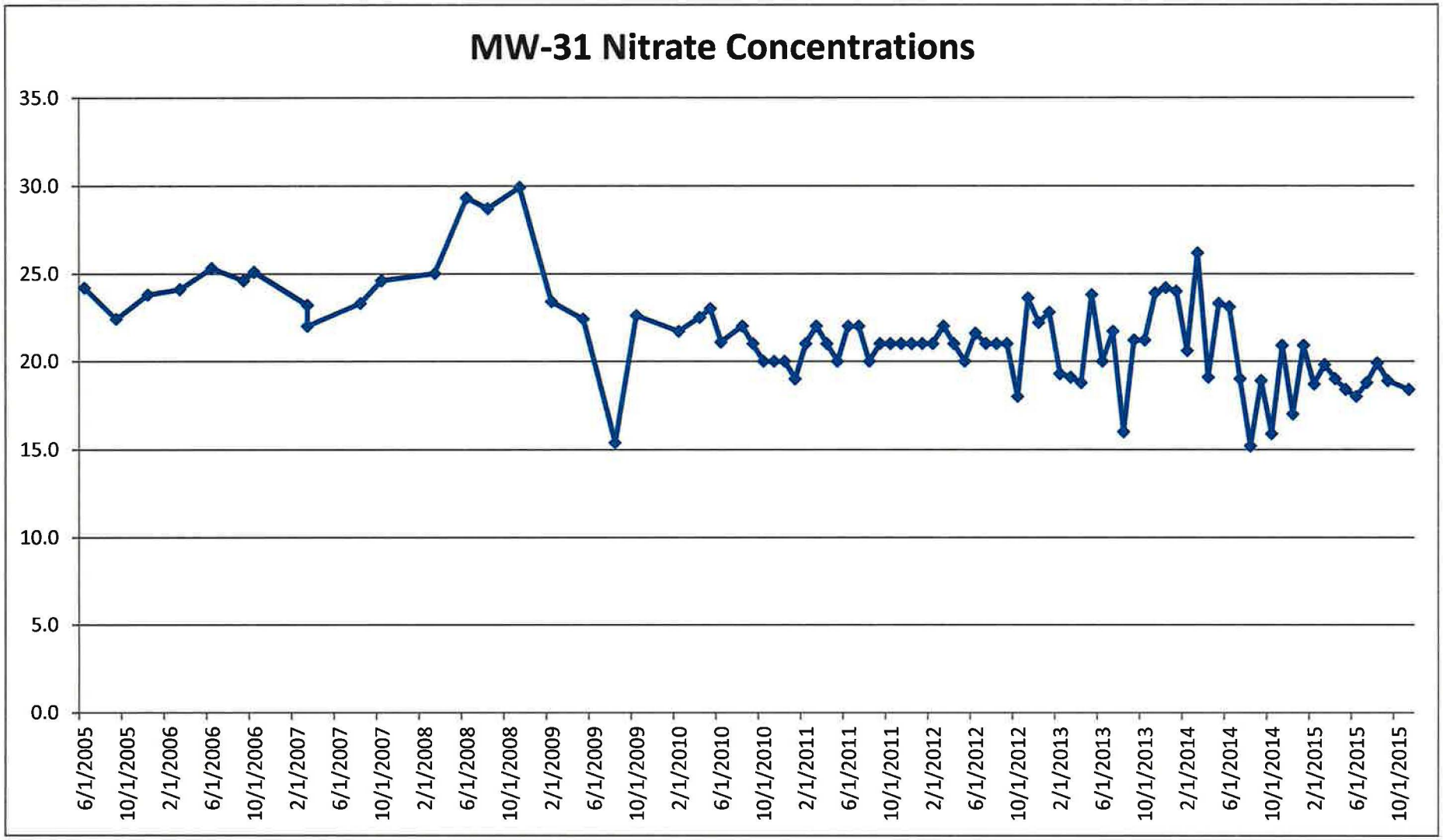
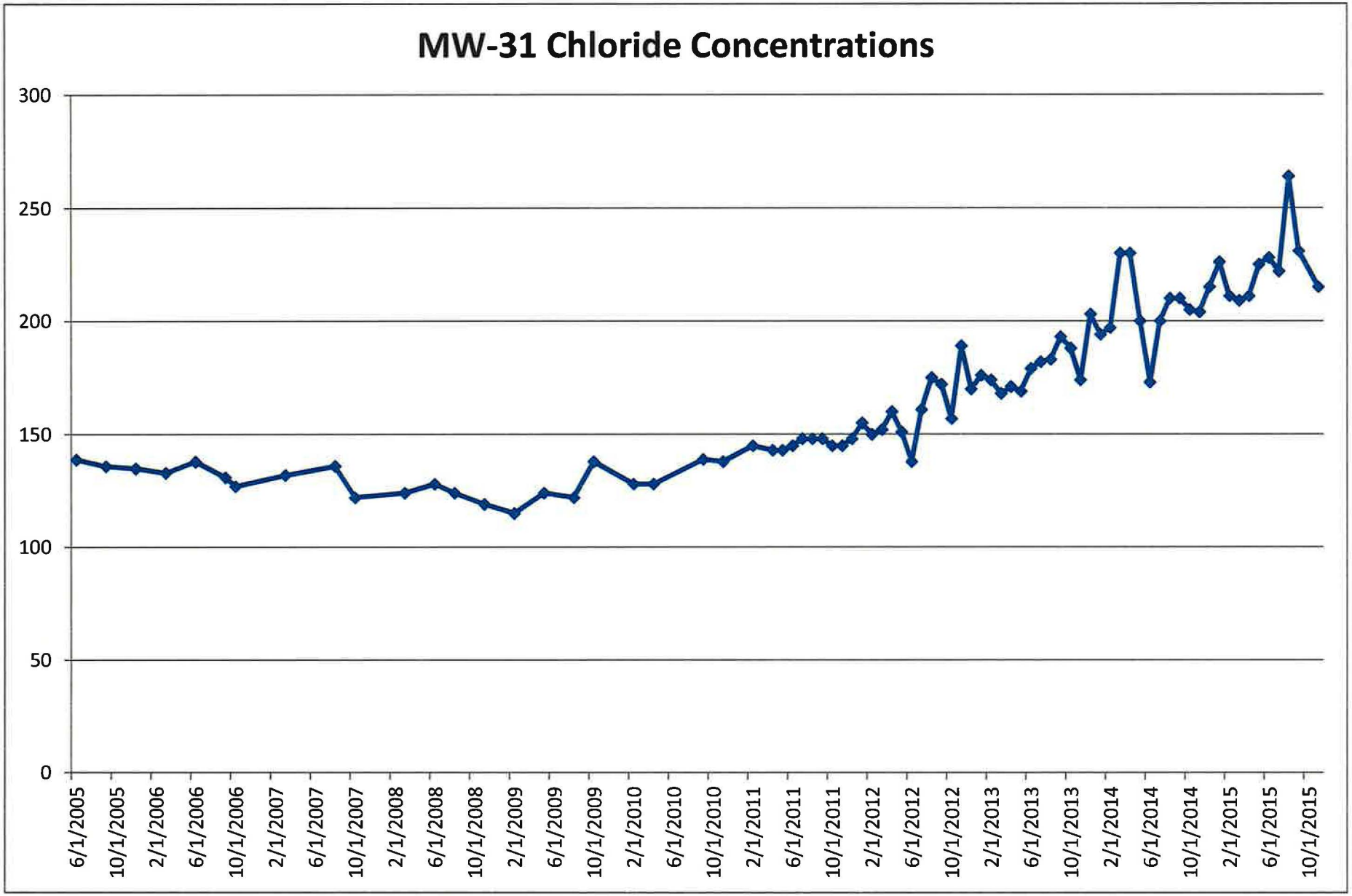
2/1/2015
6/1/2015
10/1/2015


MW-31 Nitrate Concentrations
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015
10/1/2015


MW-31 Chloride Concentrations
300
250
200
150
100
50
0
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
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2/1/2011
6/1/2011
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10/1/2012
2/1/2013
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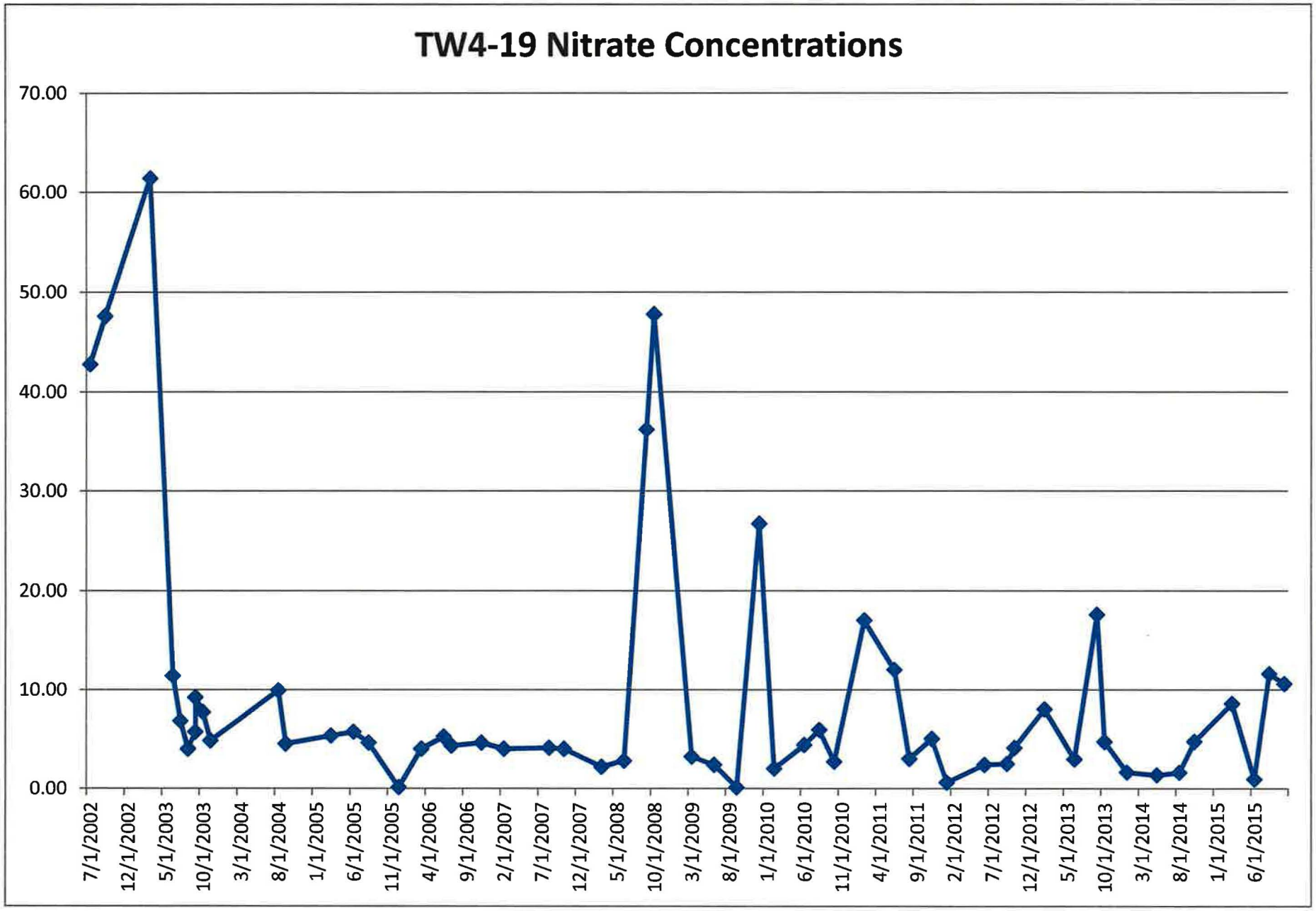
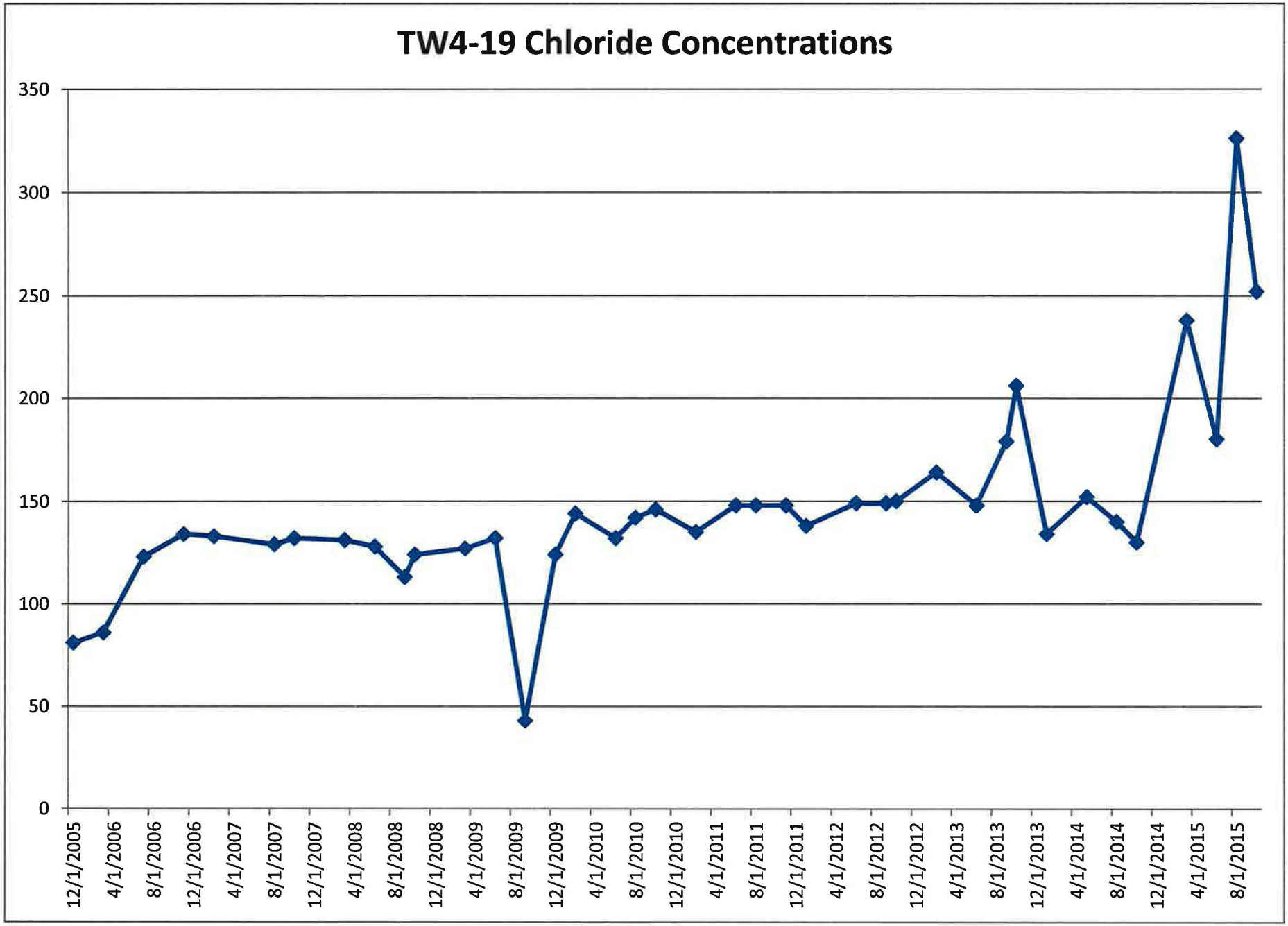
10/1/2014
2/1/2015
6/1/2015
10/1/2015


TW4-19 Nitrate Concentrations
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
7/1/2002
12/1/2002
5/1/2003
10/1/2003
3/1/2004
8/1/2004
1/1/2005
6/1/2005
11/1/2005
4/1/2006
9/1/2006
2/1/2007
7/1/2007
12/1/2007
5/1/2008
10/1/2008
3/1/2009
8/1/2009
1/1/2010
6/1/2010
11/1/2010
4/1/2011
9/1/2011
2/1/2012
7/1/2012
12/1/2012
5/1/2013
10/1/2013
3/1/2014
8/1/2014
1/1/2015
6/1/2015


TW4-19 Chloride Concentrations
350
300
250
200
150
100
50
0
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
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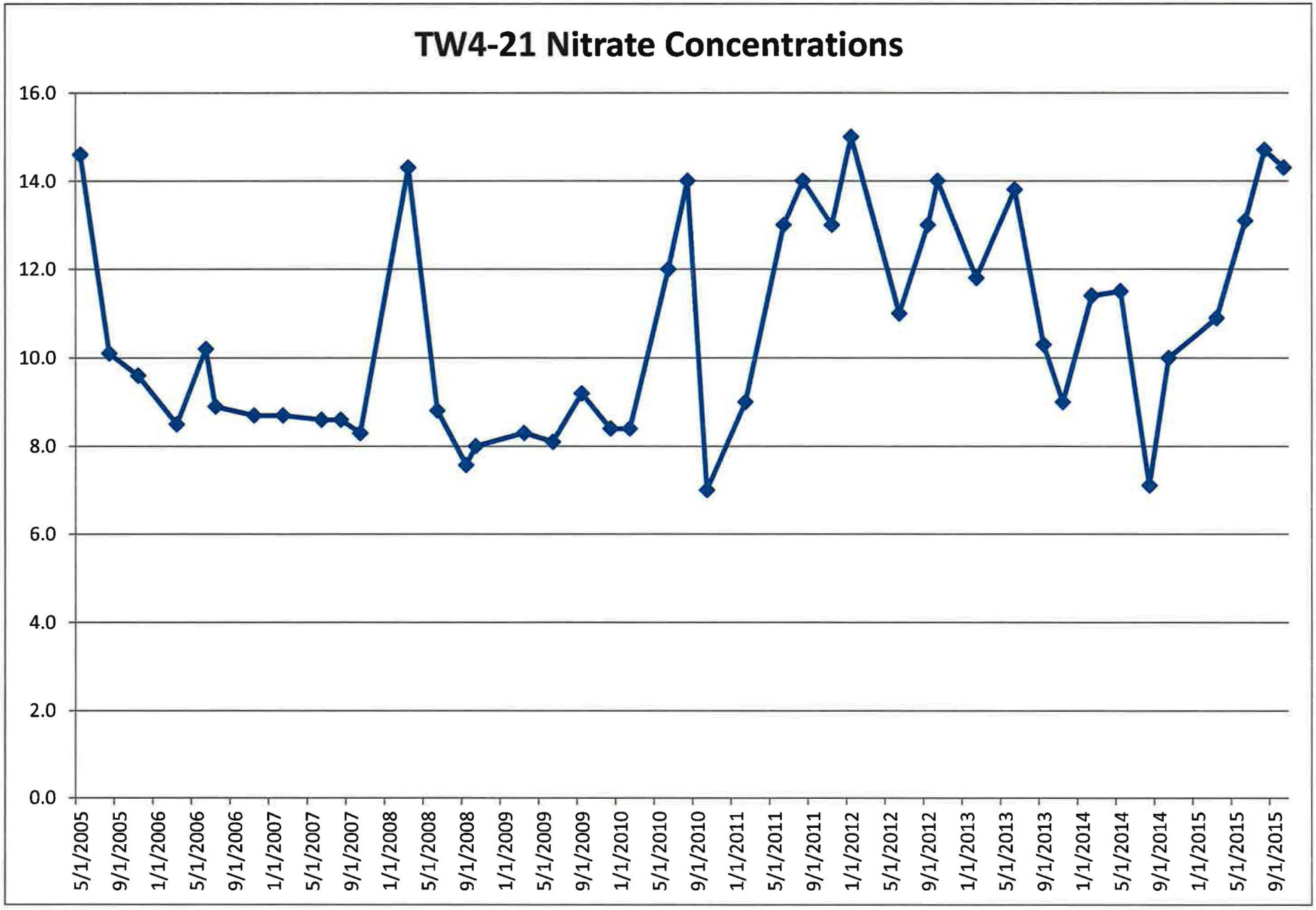
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015


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
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
5/1/2010
9/1/2010
1/1/2011
5/1/2011
9/1/2011
1/1/2012
5/1/2012
9/1/2012
1/1/2013
5/1/2013
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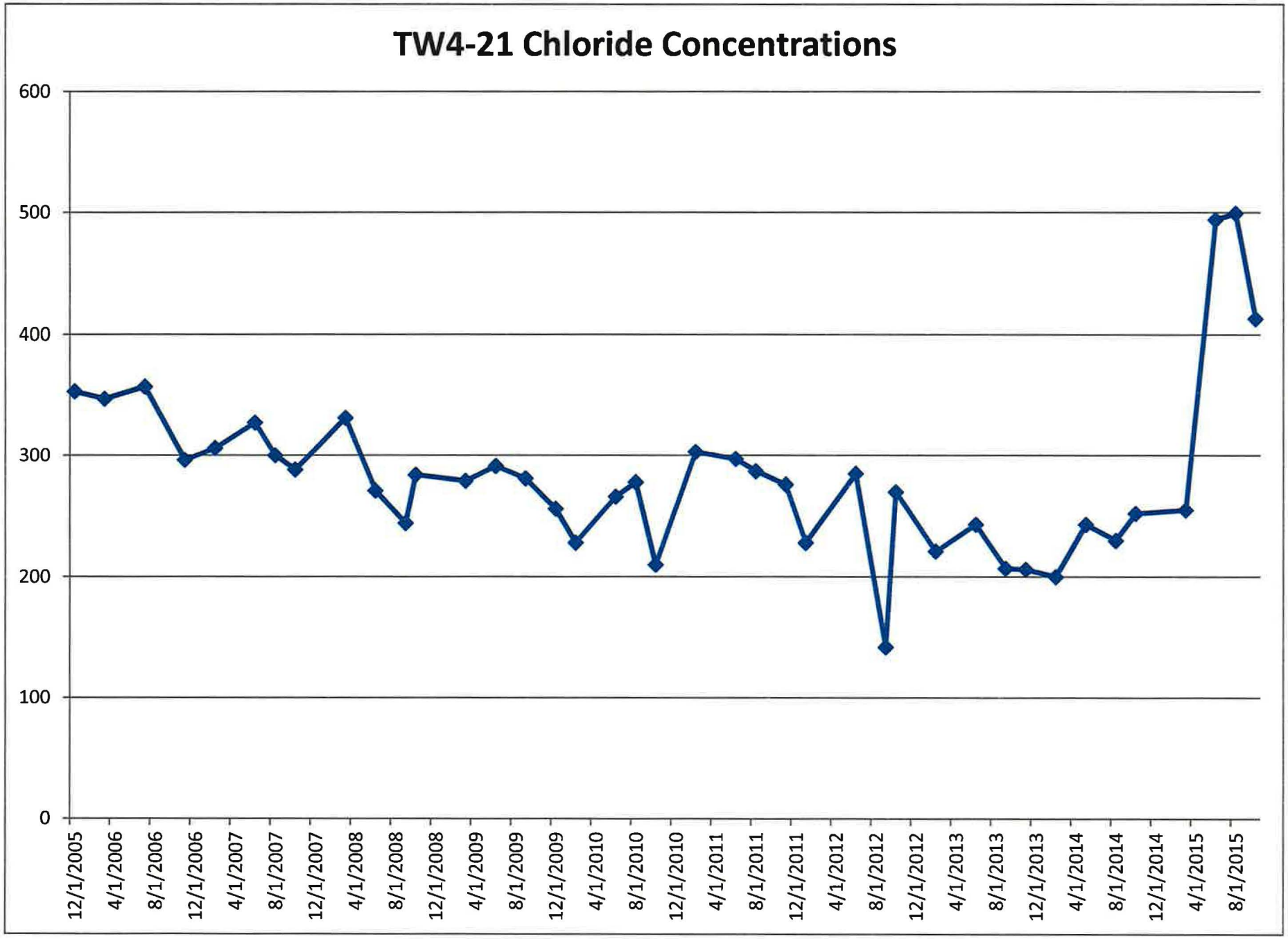
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015
9/1/2015


TW4-21 Chloride Concentrations
600
500
400
300
200
100
0
12/1/2005
4/1/2006
8/1/2006
12/1/2006
4/1/2007
8/1/2007
12/1/2007
4/1/2008
8/1/2008
12/1/2008
4/1/2009
8/1/2009
12/1/2009
4/1/2010
8/1/2010
12/1/2010
4/1/2011
8/1/2011
12/1/2011
4/1/2012
8/1/2012
12/1/2012
4/1/2013
8/1/2013
12/1/2013
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015

Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Tuesday, February 23, 2016 1:36 PM
To: 'Phillip Goble'
Cc: 'Dean Henderson'; Harold Roberts; David Frydenlund; Jaime Massey; David Turk; Scott Bakken; Logan Shumway
Subject: Transmittal of CSV Files White Mesa Mill 2015 Q4 Nitrate Monitoring
Attachments: 1510394-EDD.csv

Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the fourth quarter of 2015, 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

Energy Fuels Resources (USA) Inc.

Kathy Weinel
Quality Assurance Manager

t: 303.389.4134 | f: 303.389.4125
225 Union Blvd., Suite 600
Lakewood, CO 80228

http://www.energyfuels.com

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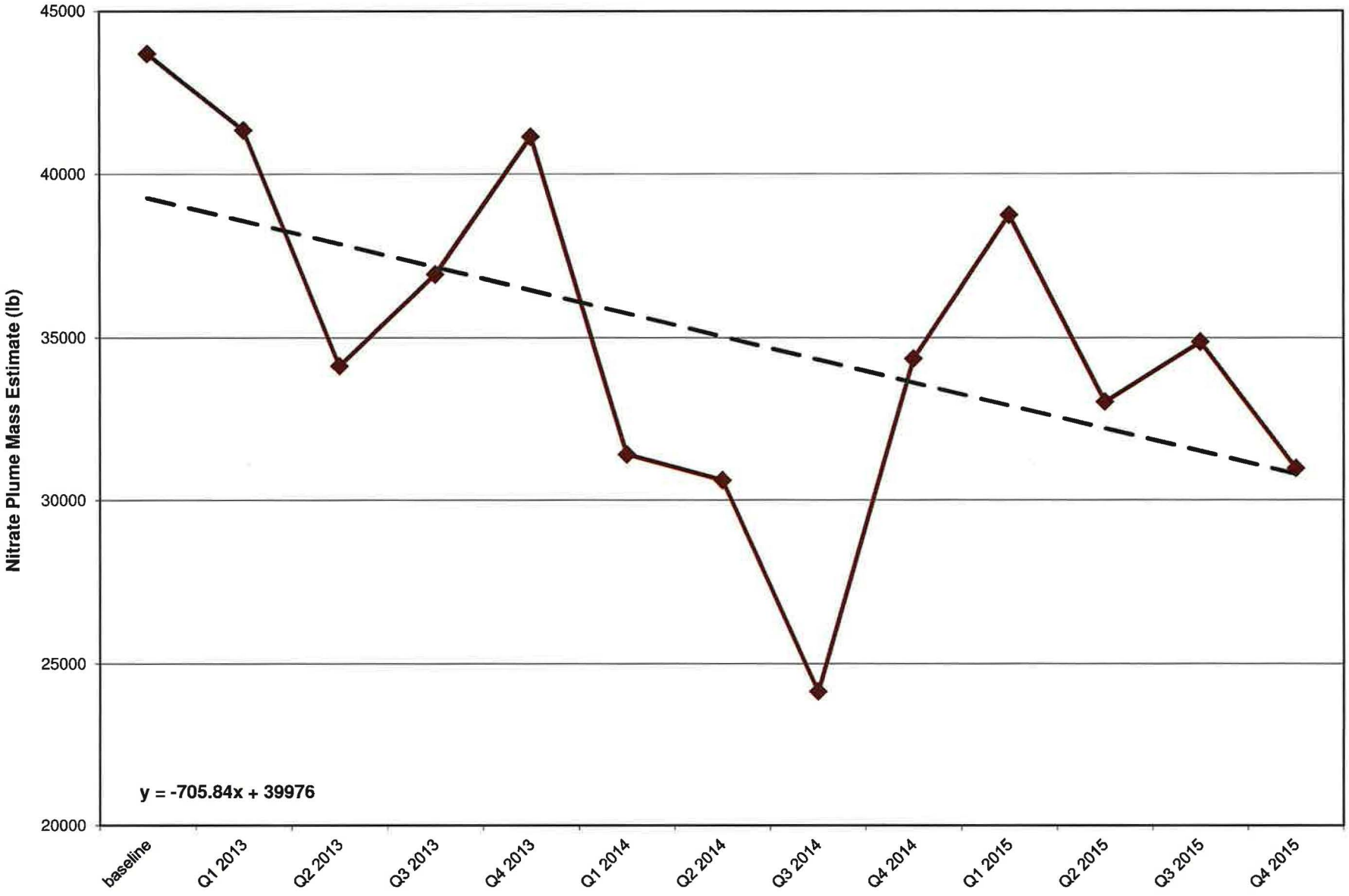
Tab M

Residual Mass Estimate Analysis Figure



HYDRO GEO CHEM, INC.

Time Series of Nitrate Plume Mass Estimates

Approved	Date	Author	Date	File Name	Figure
SJS	2/11/16	GEM	2/11/16	Nmasstrend0615.xls	M.1

H:\718000\Feb16\nitrate\mass_est\Nmtrend1215: 8x11 LS Color