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November 24, 2015

Div of Waste Management
and Radiation Control

Sent VIA OVERNIGHT DELIVERY

NOV 30 2015
DPC-2015-000588

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 3rd Quarter 2015 Routine Chloroform Monitoring Report
UDEQ Docket No. UGW-20-01 White Mesa Uranium Mill**

Dear Mr. Anderson:

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 3rd Quarter of 2015 as required by the Stipulation and Consent Order, UDEQ Docket No. UGW-20-01 as well as two CDs each containing a word searchable electronic copy of the report.

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

Yours very truly,

A handwritten signature in cursive script that reads 'Kathy Weinel'.

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

CC: David C. Frydenlund
Harold R. Roberts
David E. Turk
Dan Hillsten
Scott Bakken



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White Mesa Uranium Mill
Chloroform Monitoring Report

State of Utah
Stipulation and Consent Order Docket No. UGW-20-01

3rd Quarter
(July through September)
2015

Prepared by:



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

November 24, 2015

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1.0 INTRODUCTION

The presence of chloroform was initially identified in groundwater at the White Mesa Mill (the “Mill”) as a result of split sampling performed in May 1999. The discovery resulted in the issuance of State of Utah Notice of Violation (“NOV”) and Groundwater Corrective Action Order (“CAO”) State of Utah Department of Environmental Quality (“UDEQ”), Division of Waste Management and Radiation Control (“DWMRC”) Docket No. UGW-20-01, which required that Energy Fuels Resources (USA) Inc. (“EFRI”) submit a Contamination Investigation Plan and Report pursuant to the provisions of UAC R317-6-6.15(D). In response to the NOV, EFRI submitted a series of documents outlining plans for investigation of the chloroform contamination. This plan of action and preliminary schedule was set out in EFRI submittals dated: September 20, 1999; June 30, 2000; April 14, 2005; and November 29, 2006. EFRI submitted a draft Groundwater Corrective Action Plan (“GCAP”) dated August 22, 2007. The draft GCAP was reviewed by the Director, who advised EFRI in 2013 that modifications were required. In an effort to expedite and formalize active and continued remediation of the chloroform plume, both parties have agreed to the GCAP found in Attachment 1, of the final Stipulation and Consent Order (“SCO”) dated September 14, 2015.

This is the Quarterly Chloroform Monitoring Report for the third quarter of 2015 as required under the SCO. This report also includes the Operations Report for MW-04, TW4-01, TW4-04, TW4-02, TW4-11, TW4-19, TW4-20, TW4-21, MW-26, TW4-22, TW4-24, TW4-25, and TW4-37 for the quarter.

2.0 CHLOROFORM 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. Chloroform samples and measurements taken during this reporting period are discussed in the remainder of this section.

2.1.1 Chloroform Monitoring

Quarterly sampling for chloroform monitoring parameters is currently required in the following wells:

MW-4	TW4-9	TW4-18	TW4-27	TW4-36
TW4-1	TW4-10	TW4-19	TW4-28	TW4-37
TW4-2	TW4-11	TW4-20	TW4-29	
TW4-3	TW4-12	TW4-21	TW4-30	
TW4-4	TW4-13	TW4-22	TW4-31	
TW4-5	TW4-14	TW4-23	TW4-32	
TW4-6	MW-26 (formerly TW4-15)	TW4-24	TW4-33	
TW4-7	TW4-16	TW4-25	TW4-34	
TW4-8	MW-32 (formerly TW4-17)	TW4-26	TW4-35	

Chloroform monitoring was performed in all of the required chloroform monitoring wells. Table 1 provides an overview of all wells sampled during the quarter, along with the date samples were collected from each well, and the date(s) when analytical data were received from the contract laboratory. Table 1 also identifies equipment rinsate samples collected, as well as sample numbers associated with the deionized field blank (“DIFB”) and any required duplicates.

2.1.2 Parameters Analyzed

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

- Chloroform
- Chloromethane
- Carbon tetrachloride
- Methylene chloride
- Chloride
- Nitrate plus Nitrite as Nitrogen

Use of analytical methods is consistent with the requirements of the Chloroform Investigation Monitoring Quality Assurance Program (the “Chloroform QAP”) attached as Appendix A to the White Mesa Uranium Mill Groundwater Monitoring QAP Revision 7.2, dated June 6, 2012.

2.1.3 Groundwater Head Monitoring

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

- The quarterly groundwater compliance monitoring wells
- Existing monitoring 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 and MW-22
- Nitrate monitoring wells
- The DR piezometers that were installed during the Southwest Hydrologic Investigation

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.

Weekly and monthly depth to groundwater measurements were taken in the chloroform pumping wells MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-02. In addition, monthly water level measurements were taken in non-pumping wells MW-27, MW-30, MW-31, TW4-21, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

EFRI completed, and transmitted to DWMRC on May 25, 2006, a revised QAP for sampling under the Mill's GWDP. While the water sampling conducted for chloroform investigation purposes has conformed to the general principles set out in the QAP, some of the requirements in the QAP were not fully implemented prior to DWMRC's approval of the QAP, for reasons set out in correspondence to DWMRC dated December 8, 2006. Subsequent to the delivery of the December 8, 2006 letter, EFRI discussed the issues brought forward in the letter with DWMRC and has received correspondence from DWMRC about those issues. In response to DWMRC's letter and subsequent discussions with DWMRC, EFRI modified the chloroform Quality Assurance ("QA") procedures within the Chloroform QAP. The Chloroform QAP describes the requirements of the chloroform investigation program and identifies where they differ from the Groundwater QAP. On June 20, 2009 the Chloroform QAP was modified to require that the quarterly chloroform reports include additional items specific to EFRI's ongoing pump testing and chloroform capture efforts. The Groundwater QAP as well as the Chloroform QAP were revised again on June 6, 2012. The revised Groundwater QAP and Chloroform QAP, Revision 7.2 were approved by DWMRC on June 7, 2012.

The sampling methodology, equipment and decontamination procedures used in the chloroform contaminant investigation, as summarized below, are consistent with the approved QAP Revision 7.2 and the Chloroform QAP.

2.2.1 Decontamination Procedures

Non-dedicated sampling equipment is decontaminated prior to use as described in the DWMRC-approved QAP and as summarized below.

The water level meter is decontaminated with a detergent/deionized ("DI") water mixture by pouring the solutions over the water level indicator. The water level meter is then rinsed with DI water.

The field measurement instrument probe is decontaminated by rinsing with DI water prior to each calibration. The sample collection cup is washed with a detergent/DI water solution and rinsed with fresh DI water prior to each calibration.

The non-dedicated purging pump is decontaminated after each use and prior to use at subsequent sampling locations using the following procedures:

- a) the pump is submerged into a 55-gallon drum of nonphosphate detergent/DI water mixture;
- b) the detergent/DI water solution is pumped through the pump and pump outlet lines into the drain line connected to Cell 1;
- c) the pump is submerged into a 55-gallon drum of DI water;
- d) the DI water solution is pumped through the pump and pump outlet lines into the drain line connected to Cell 1;

2.2.2 Well Purging and Depth to Groundwater

The non-pumping wells are purged prior to sampling by means of a portable pump. A list of the wells in order of increasing chloroform concentration is generated quarterly. The order for purging the non-pumping is thus established. The list is included with the Field Data Worksheets under Tab B. Mill personnel start purging with all of the non-detect wells and then move to the wells with detectable chloroform concentrations starting with the lowest concentration and proceeding to the wells with the highest concentration. One deviation to this practice is made for the continuously pumping wells. These wells are sampled throughout the sampling event and are not sampled in the order of contamination. This practice does not affect the samples for this reason: the pumping wells have dedicated pumps and there will be no cross-contamination resulting from the sampling order.

Samples are collected by means of disposable bailer(s) the day following the purging. The disposable bailer is used only for the collection of a sample from an individual well and disposed subsequent to the sampling. As noted in the approved QAP, Revision 7.2, sampling will generally follow the same order as purging; however, the sampling order may deviate slightly from the generated list. This practice does not affect the samples for these reasons: any wells sampled in slightly different order either have dedicated pumps or are sampled via a disposable bailer. This practice does not affect the quality or usability of the data as there will be no cross-contamination resulting from the sampling order.

Before leaving the Mill office, the portable pump and hose are rinsed with deionized (“DI”) water. Where portable (non-dedicated) sampling equipment is used, a rinsate sample is collected at a frequency of one rinsate sample per 20 field samples. Well depth measurements are taken and the one casing volume is calculated for those wells which do not have a dedicated pump as described in Attachment 2-3 of the QAP. 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 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 specific conductivity, turbidity, pH, redox potential, and water temperature
2. Purging two casing volumes with stable field parameters for specific conductivity, turbidity, pH, redox potential, and water temperature (within 10% Relative Percent Difference [“RPD”])
3. Purging a well to dryness and stability (within 10% RPD) of field parameters for pH, specific conductivity, and water temperature only after recovery

If the well has a dedicated pump, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample; however, if a pumping well has been out of service for 48 hours or more, EFRI will follow the purging requirements outlined in Attachment 2-3 of the QAP. The dedicated pump is used to collect parameters and to collect the samples as described below. If the well does not have a dedicated pump, a Grundfos pump

(9 - 10 gpm pump) is then lowered to the screened interval in the well and purging is started. The purge rate is measured for the well by using a calibrated 5 gallon bucket. This purging process is repeated at each well location moving from least contaminated to the most contaminated well. All wells are capped and secured prior to leaving the sampling location.

Wells with dedicated pumps are sampled when the pump is in the pumping mode. If the pump is not pumping at the time of sampling, it is manually switched on by the Mill Personnel. The well is pumped for approximately 5 to 10 minutes prior to the collection of the field parameters. Per the approved QAP, one set of parameters is collected. Samples are collected following the measurement of one set of field parameters. After sampling, the pump is turned off and allowed to resume its timed schedule.

2.2.3 Sample Collection

Prior to sampling, a cooler with ice is prepared. The trip blank is also gathered at that time (the trip blank for these events is provided by the analytical laboratory). Once Mill Personnel arrive at the well sites, labels are filled out for the various samples to be collected. All personnel involved with the collection of water and samples are then outfitted with disposable gloves. Chloroform investigation samples are collected by means of disposable bailers.

Mill personnel use a disposable bailer to sample each well that does not have a dedicated pump. The bailer is attached to a reel of approximately 150 feet of nylon rope and then lowered into the well. After coming into contact with the water, the bailer is allowed to sink into the water in order to fill. Once full, the bailer is reeled up out of the well and the sample bottles are filled as follows:

- Volatile Organic Compound (“VOC”) samples are collected first. This sample consists of three 40 ml vials provided by the Analytical Laboratory. The VOC sample is not filtered and is preserved with HCl;
- A sample for nitrate/nitrite is then collected. This sample consists of one 250 ml. bottle that is provided by the Analytical Laboratory. The nitrate/nitrite sample is not filtered and is preserved with H₂SO₄;
- A sample for chloride is then collected. This sample consists of one 500 ml. bottle that is provided by the Analytical Laboratory. The chloride sample is not filtered and is not chemically preserved.

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

2.3 Field Data

Attached under Tab B are copies of the Field Data Worksheets that were completed during the quarter for the chloroform contaminant investigation monitoring wells identified in paragraph 2.1.1 above, and Table 1.

2.4 Depth to Groundwater Data and Water Table Contour Map

Attached under Tab C are copies of the Depth to Water Sheets for the weekly monitoring of MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 as well as the monthly depth to groundwater data for the chloroform contaminant investigation wells and the non-pumped wells measured during the quarter. Depth to groundwater measurements that were utilized for groundwater contours are included on the Quarterly Depth to Water Worksheet at Tab D of this report, along with the kriged groundwater contour map for the current quarter generated from this data. A copy of the kriged groundwater contour map generated from the previous quarter's data is provided under Tab E.

2.5 Laboratory Results

2.5.1 Copy of Laboratory Results

All analytical results were provided by American West Analytical Laboratory ("AWAL"). Table 1 lists the dates when analytical results were reported to the QA Manager for each sample.

Results from the analyses of samples collected for this quarter's chloroform contaminant investigation are provided under Tab H of this Report. Also included under Tab H are the results of the analyses for duplicate samples, the DIFB, and rinsate samples for this sampling effort, as identified in Table 1, as well as results for trip blank analyses required by the Chloroform QAP.

2.5.2 Regulatory Framework

As discussed in Section 1.0, above, the SCO triggered a series of actions on EFRI's part. In addition to the monitoring program, EFRI has equipped one nitrate well and thirteen chloroform wells with pumps to recover impacted groundwater, and has initiated recovery of chloroform from the perched zone.

Sections 4 and 5, below, interpret the groundwater level and flow information, contaminant analytical results, and pump test data to assess effectiveness of EFRI's chloroform capture program.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The QA Manager performed a QA/Quality Control ("QC") review to confirm compliance of the monitoring program with requirements of the QAP. As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and QC review of laboratory 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 laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

The analytical laboratory has provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference (“NELAC”) certification and reporting protocol. The Analytical Laboratory QA/QC Summary Reports, including copies of the Mill’s Chain of Custody and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tab H. Results of the review of the laboratory QA/QC information are provided under Tab I and are 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 chloroform investigation program consist of one field duplicate sample for each 20 samples, a trip blank for each shipped cooler that contains VOCs, one DIFB and rinsate samples.

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

Two trip blanks were provided by AWAL and returned with the quarterly chloroform monitoring samples.

Two rinsate blank samples were collected at a frequency of one rinsate per twenty samples per QAP Section 4.3.2 and as indicated on Table 1. Rinsate samples were labeled with the name of the subsequently purged well with a terminal letter “R” added (e.g. TW4-7R). The results of these analyses are included with the routine analyses under Tab H.

In addition, one DIFB, while not required by the Chloroform QAP, was collected and analyzed for the same constituents as the well samples and rinsate blank samples.

3.2 Adherence to Mill Sampling SOPs

The QA Manager’s 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 GCAP for chloroform monitoring for the period were performed.

3.4 Data Validation

The QAP and GWDP identify the data validation steps and data QC checks required for the chloroform monitoring program. Consistent with these requirements, the QA Manager performed the following evaluations: a field data QA/QC evaluation, a holding time check, a receipt temperature check, an analytical method check, a reporting limit evaluation, a trip blank check, a QA/QC evaluation of sample duplicates, a QC Control Limit check for analyses and blanks including the DIFB and a rinsate sample check. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab I.

3.4.1 Field Data QA/QC Evaluation

The QA Manager performs a review of the 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 measurement of field parameters based on the requirements discussed in section 2.2.1 above. The purging technique employed determines the requirements for field parameter measurement and whether stability criteria are applied. Review of the Depth to Water data confirms that all depth measurements used for development of the groundwater contour maps were conducted within a five-day period as indicated by the measurement dates in the summary sheet under Tab D. The results of this quarter's review of field data are provided under Tab I.

Based upon the review of the field data sheets, the purging and field measurements were completed in conformance with the QAP requirements. A summary of the purging techniques employed and field measurements taken is described below:

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

Wells TW4-5, TW4-8, TW4-9, TW4-16, MW-32, TW4-18, TW4-23, and TW4-32 were sampled after two casing volumes were removed. Field parameters (pH, specific conductivity, turbidity, water temperature, and redox potential) were measured during purging. All field parameters for this requirement were stable within 10% RPD.

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

Wells TW4-3, TW4-6, TW4-7, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, and TW4-36 were pumped to dryness before two casing volumes were evacuated. After well recovery, one set of measurements were taken. The samples were then collected, and another set of measurements were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP, Revision 7.2. The QAP requirements for stabilization were met.

Continuously Pumped Wells

Wells MW-4, TW4-1, TW4-2, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, and TW4-37 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.

During review of the field data sheets, the QA Manager confirmed that sampling personnel consistently recorded depth to water to the nearest 0.01 foot.

The review of the field sheets for compliance with QAP, Revision 7.2 requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least 2 consecutive measurements for wells purged to 2 casing volumes or purged 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 below regarding turbidity measurements greater than 5 NTU are included for information purposes only.

Wells TW4-1, TW4-5, TW4-8, TW4-9, TW4-11, TW4-16, MW-32, TW4-18, TW4-20, TW4-21, TW4-22, TW4-23, TW4-25, TW4-32, and TW4-37 exceeded the QAP's 5 NTU goal. 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 I. The samples were received and analyzed within the required holding times.

3.4.3 Receipt Temperature Evaluation

Chain of Custody sheets were reviewed to confirm compliance with the QAP requirement which specifies that samples be received at 6°C or lower. Sample temperature checks are provided in Tab I. The samples were received within the required temperature limit.

3.4.4 Analytical Method Checklist

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

3.4.5 Reporting Limit Evaluation

The analytical method reporting limits reported by the laboratory were checked against the reporting limits enumerated in the Chloroform QAP. Reporting Limit Checks are provided under Tab I. The analytes were measured and reported to the required reporting limits; several sets of sample results had the reporting limit raised for at least one analyte due to matrix interference and/or sample dilution. In these cases, the reported value for the analyte was higher than the increased detection limit.

3.4.6 Receipt pH Evaluation

Appendix A of the QAP states that volatile samples are required to be preserved and arrive at the laboratory with a pH less than 2. A review of the laboratory data revealed that the volatile samples were received at the laboratory with a pH less than 2.

3.4.7 Trip Blank Evaluation

Trip blank results were reviewed to identify any VOC contamination resulting from transport of the samples. Trip blank checks are provided in Tab I. The trip blank results were less than the reporting limit for all VOCs.

3.4.8 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 the duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data are considered noncompliant only when the results are greater than 5 times the reported detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

Duplicate results were within a 20% RPD in the quarterly samples. Duplicate results are provided under Tab I.

3.4.9 Rinsate Sample Check

Rinsate blank sample checks are provided in Tab I. The rinsate blank sample concentration levels were compared to the QAP requirements i.e., that rinsate sample concentrations be one order of magnitude lower than that of the actual well. The rinsate blank sample results were nondetect for this quarter.

While not required by the Chloroform QAP, DIFB samples are collected to analyze the quality of the DI water system at the Mill, which is also used to collect rinsate samples. A review of the analytical results reported for the DIFB sample indicated the sample results were nondetect.

3.4.10 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-specified acceptance limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided in Tab I.

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

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

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab I. The data recoveries which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries outside of 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 QAP specifies that surrogate compounds shall be employed for all organic analyses, but the QAP does not specify acceptance limits for surrogate recoveries. The analytical data associated with the routine quarterly sampling met the requirement specified in the QAP. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for the quarterly chloroform samples were within acceptable laboratory limits for the surrogate compounds. The requirement in the QAP to analyze surrogate compounds was met and the data are compliant with the QAP. Furthermore, there are no QAP requirements for surrogate recoveries.

The information from the Laboratory QA/QC Summary Reports indicates that the Laboratory Control Samples (the "LCS") recoveries were within acceptable laboratory limits for the LCS

compounds.

4.0 INTERPRETATION OF DATA

4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions.

4.1.1 Current Site Groundwater Contour Map

The water level contour maps (See Tab D) indicate 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 DWMRC 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 chloroform and nitrate within and near the chloroform plume, and of nitrate and chloride within and near the nitrate plume, may occur even when these plumes are under control. Ongoing mechanisms that can be expected to

increase constituent concentrations locally as a result of reduced wildlife pond recharge include but are not limited to:

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

The combined impact of the above two mechanisms may be especially evident at chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20; nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2; and non-pumped wells adjacent to the pumped wells. 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 to those added last quarter (TW4-21 and TW4-37). The overall impact is expected to be generally higher constituent concentrations in these wells over time until mass reduction resulting from pumping and natural attenuation eventually reduces concentrations. Short-term changes in concentrations at pumping wells and wells adjacent to pumping wells are also expected to result from changes in pumping conditions.

In addition to changes in the flow regime caused by wildlife pond recharge, perched flow directions are locally influenced by operation of the chloroform and nitrate pumping wells. 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 TW4-21 and TW4-37, which began pumping last quarter. 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 well-defined cones of depression near TW4-21 and TW4-37 likely results from their recent start-up.

Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 started pumping 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. By the fourth quarter of 2013, operation of the nitrate pumping system had produced well-defined impacts on water levels. 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 likely contribute to 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, TW4-26, TW4-29, and TW4-33 is approximately two orders of magnitude lower than at TW4-4. Any drawdown of water levels at wells immediately south of TW4-4 resulting from TW4-4

pumping is also difficult to determine because of the general, long-term increase in water levels that occurred in this area due to recharge from the wildlife ponds.

Water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet, respectively, between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to the start of TW4-4 pumping) at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the rate of increase in water levels 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. Furthermore, water levels at TW4-6 have been trending downward since the fourth quarter of 2013 suggesting an additional influence related to the cessation of water delivery to the northern wildlife ponds as discussed above, and more recently to the addition of chloroform pumping wells TW4-1, TW4-2, and TW4-11. 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 these 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 5541.4 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 5528.1 ft amsl) is 4.1 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.

TW4-27 was positioned at a location considered likely to detect any chloroform present and/or to bound the chloroform plume to the southeast and east (respectively) of TW4-4 and TW4-6. As will be discussed below, groundwater data collected since installation indicates that TW4-27 does indeed bound the chloroform plume to the southeast and east of TW4-4 and TW4-6 (respectively); however chloroform exceeding 70 $\mu\text{g/L}$ has been detected at recently installed temporary perched wells TW4-29 (located south of TW4-27) and TW4-33 (located between TW4-4 and TW4-29).

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 (5535.8

feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5537.4 feet amsl), and TW4-23 (5538.8 feet amsl).

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 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]). The low permeability at TW4-14 and TW4-27 is expected to retard the transport of chloroform to these wells (compared to nearby wells). As will be discussed in Section 4.2.3, third quarter, 2015 chloroform concentrations at TW4-26 and TW4-27 are 4.8 µg/L and 1.3 µg/L, respectively and both wells are outside the chloroform plume.

Hydraulic tests also indicate that the permeability at recently installed well 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.

Although chloroform exceeding 70 µg/L was detected at recently installed wells TW4-29 (located south of TW4-27) and TW4-33 (located between TW4-4 and TW4-29), chloroform was detected at only approximately 3.3 µg/L at recently installed well TW4-30 (located east and downgradient of TW4-29), and was not detected at recently installed wells TW4-31 (located east of TW4-27), nor TW4-34 (located south and cross-gradient of TW4-29), nor at well TW4-35 (located southeast and cross- to downgradient of TW4-29). The detections at TW4-29 and TW4-33 suggest that chloroform migrated southeast from the vicinity of TW4-4 to TW4-33 then TW4-29 in a direction nearly cross-gradient with respect to the direction of groundwater flow implied by the groundwater elevations. Such migration is possible because the water level at TW4-29 is lower than the water level at TW4-4 (and TW4-6). The hydraulic conductivities of TW4-29, TW4-30, and TW4-31 are one to two orders of magnitude lower than the conductivity of TW4-4, and one to two orders of magnitude higher than the conductivity of TW4-27. The permeability and water level distributions are generally consistent with the apparent nearly cross-gradient migration of chloroform around the low permeability zone defined by TW4-36, TW4-14, and TW4-27.

Data from existing, and recently installed wells indicate that:

1. Chloroform exceeding 70 µg/L at TW4-29 is bounded by concentrations below 70 µg/L at wells TW4-26, TW4-27, TW4-30, TW4-34, and TW4-35. TW4-30 is downgradient of TW4-29; TW4-26 is upgradient of TW4-29; TW4-27 and TW4-34 are cross-gradient of TW4-29; and recently installed well TW4-35 is cross- to downgradient of TW4-29.
2. Chloroform concentrations at TW4-33 that are lower than concentrations at TW4-29, and the likelihood that a pathway exists from TW4-4 to TW4-33 to TW4-29, suggest that concentrations in the vicinity of TW4-33 were likely higher prior to initiation of TW4-4 pumping, and that lower concentrations currently detected at TW4-33 are due to its closer proximity to TW4-4.

Furthermore, TW4-4 pumping is likely to reduce chloroform at both TW4-33 and TW4-29 by cutting off the source. The decrease at TW4-33 is expected to be faster than at TW4-29 because TW4-33 is in closer proximity to TW4-4 pumping. Such behavior is expected by analogy with the decreases in chloroform concentrations that occurred at TW4-6 and TW4-26 once TW4-4 pumping began. Since installation in 2013, however, concentrations at TW4-33 appear to be relatively stable; since the third quarter of 2014, concentrations at TW4-29 appear to be generally increasing (although they decreased from 329 µg/L to 276 µg/L between last quarter and the current quarter). The relative stability at TW4-33 may result from the dual impacts of reduced dilution from wildlife ponds and TW4-4 pumping. The apparent increases at TW4-29 may be related to reduced dilution and its greater distance from TW4-4.

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

The groundwater contour map for the Mill site for the second quarter of 2015, as submitted with the Chloroform Monitoring Report for the second quarter of 2015, is attached under Tab E.

A comparison of the water table contour maps for the current quarter (third quarter of 2015) to the water table contour maps for the previous quarter (second quarter of 2015) indicates similar patterns of drawdowns associated with pumping wells. Significant drawdowns associated with new chloroform pumping wells TW4-21 and TW4-37 are not yet evident. Drawdowns associated with chloroform pumping wells MW-4, TW4-1 and TW4-2, and nitrate pumping well TW4-24 increased by more than 2 feet this quarter. Drawdowns associated with chloroform pumping wells MW-26, TW4-11 and TW4-19 decreased by more than 2 feet this quarter.

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. While the water levels in nitrate pumping wells TW4-24, TW4-25, and TWN-2 showed decreases (increases in drawdown) of less than 1 to nearly 3 feet, the water level at TW4-22 showed a slight increase (decrease in drawdown) 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 12.6, 8.3, 4.2, and 2.8 feet occurred in chloroform pumping wells MW-4, TW4-1, TW4-2, and nitrate pumping well TW4-24, respectively. Increases in water level (decreases in drawdown) of approximately 6.2, 2.3, and 5.4 feet were reported for chloroform pumping wells TW4-11, MW-26, and TW4-19, respectively. 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, TW4-20, TW4-21, and TW4-37, and nitrate pumping wells TW4-22, TW4-25, and TWN-2) were less than 2 feet. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken.

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 system is approximately the same as last quarter.

Reported water level decreases of up to 0.8 feet at Piezometers 1, 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 0.8 feet at Piezometers 4 and 5, respectively, may result from reduced recharge at the southern wildlife pond.

Reported water levels decreased by approximately 2.8 feet at MW-3, and increased by approximately 4 feet and 6.6 feet at MW-20 and MW-37, respectively, between the previous quarter and the current quarter. Water level variability at these wells is likely the result of low permeability and variable intervals between purging/sampling and water level measurement. The water levels at TW4-7 and TW4-8 decreased by approximately 9.7 and 3 feet, respectively, likely related to the decrease at adjacent chloroform pumping well MW-4. Measurable water was again reported at DR-22. This piezometer is typically dry but on occasion has measurable water reported in the bottom of the casing.

4.1.3 Hydrographs

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

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

Attached under 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.

4.1.5 Evaluation of the Effectiveness of Hydraulic Capture

Perched water containing chloroform has been removed from the subsurface by operating chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20, and wells TW4-1, TW4-2, TW4-11, TW4-21, and TW4-37 that have been added to the chloroform pumping system during the first and second quarters of 2015. The primary purpose of the pumping is to reduce total chloroform mass in the perched zone as rapidly as is practical. Pumping wells upgradient of TW4-4 were chosen because 1) they are located in areas of the perched zone having relatively high permeability and saturated thickness, and 2) high concentrations of chloroform were detected at these locations. The relatively high transmissivity of the perched zone in the vicinity of these pumping wells results in the wells having a relatively high productivity. The combination of relatively high productivity and high chloroform concentrations allows for a high rate of chloroform mass removal. TW4-4 is located in a downgradient area having relatively high chloroform concentrations but relatively small saturated thickness, and at a transition from relatively high to relatively low permeability conditions downgradient of TW4-4. As with the other chloroform pumping wells, pumping TW4-4 helps to reduce the rate of chloroform migration in downgradient portions of the plume.

The impact of chloroform pumping is indicated by the water level contour maps attached under Tabs D and E. Cones of depression are evident in the vicinity of MW-4, MW-26, TW4-19, and TW4-20 which continue to remove significant quantities of chloroform from the perched zone. Relatively large cones of depression have developed in the vicinities of wells TW4-1, TW4-2, and TW4-11 which began pumping during the first quarter of 2015. Cones of depression in the vicinities of chloroform pumping wells TW4-21 and TW4-37, which began pumping last quarter, are not yet evident. The water level contour maps indicate effective capture of water containing high chloroform concentrations in the vicinities of these pumping wells. As discussed in Section 4.1.1, although chloroform pumping well TW4-4 became operational in 2010, the drawdown associated with TW4-4 is likely less apparent due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

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 MW-4, TW4-1, TW4-2, TW4-20, TW4-21, and TW4-37 decreased by approximately 12.6 feet, 8.3 feet, 4.2 feet, 1.5 feet, 1.8 feet, and 1.3 feet respectively, while water levels in chloroform pumping wells TW4-4, TW4-11, MW-26, and TW4-19 increased by approximately 1.7 feet, 6.2 feet, 2.3 feet, and 5.4 feet, respectively. The water levels in nitrate pumping wells TW4-24, TW4-25, and TWN-2 decreased by approximately 2.8 feet, 0.51 feet, and 0.75 feet, respectively, and the water level in nitrate pumping well TW4-22 increased by approximately 0.3 feet. While the apparent capture of the combined pumping systems has expanded in some areas and been reduced in others, the overall apparent capture area is about the same as last quarter.

The capture associated with nitrate pumping wells is expected to increase over time as water levels continue to decline due to cessation of water delivery to the northern wildlife ponds and continued pumping. Slow development of hydraulic capture is consistent with and expected based on the relatively low permeability of the perched zone at the site.

The hydraulic capture effectiveness of both chloroform and nitrate pumping systems depends to some extent on the continued productivity of chloroform and nitrate pumping wells. Decreases in productivity have been noted since the third quarter of 2014 in chloroform pumping well TW4-19 and nitrate pumping well TW4-24. The impact of reduced productivity of these wells on chloroform capture is discussed in Attachment N. Also included is a discussion of the effectiveness of chloroform pumping on chloroform capture. As indicated in Attachment N, chloroform pumping is considered adequate at the present time even with the reduced productivity of TW4-19 and TW4-24.

Chloroform concentrations at many locations have been or appear to be affected by changes associated with reduced dilution from the wildlife ponds and nitrate pumping. For example, increases in chloroform at TW4-22 and TW4-24 after these wells were converted to nitrate pumping wells are attributable to westward migration of chloroform from the vicinity of TW4-20 toward these wells. The increase in concentration at TW4-8 from non-detect to 100 µg/L in the first quarter of 2014 (and to 747 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 remained at 1,040 µg/L this quarter, concentrations at TW4-6 have increased from approximately 10 µg/L since the second quarter of 2014. These changes are likely related to both reduced dilution and more westward flow induced by nitrate pumping.

TW4-6 is located immediately south and cross- to downgradient of chloroform pumping well TW4-4. Chloroform concentrations at TW4-6 exceeded 70 µg/L between the first quarter of 2009 and the third quarter of 2010, and remained below 70 µg/L between the fourth quarter of 2010 and the second quarter of 2014. Relatively low permeability and relatively small saturated thickness in the vicinity of TW4-6 limit the rate at which chloroform mass can be removed by pumping. However, pumping at more productive upgradient locations such as TW4-4 enhances mass removal and lowers hydraulic gradients, thereby reducing the rate of downgradient chloroform migration and allowing natural attenuation to be more effective. Pumping at TW4-4 was implemented during the first quarter of 2010 to improve capture downgradient of TW4-4 to the extent allowable by the lower productivity conditions present in this area. The beneficial effect of pumping TW4-4 is demonstrated by the net decreases in TW4-6 chloroform concentrations from 1,000 µg/L to 10.3 µg/L, and in TW4-26 from 13 µg/L to 4.2 µg/L, between the initiation of TW4-4 pumping and the second quarter of 2014. Concentrations at these wells decreased substantially even though they do not unambiguously appear to be within the hydraulic capture of TW4-4. As discussed in Section 4.1.1, however, the decrease in the long-term rate of water level rise at TW4-6 after TW4-4 began pumping does suggest that TW4-6 is within the hydraulic influence of TW4-4. The decline in water levels at TW4-6 since the fourth quarter of 2013 likely reflects the additional influences of cessation of water delivery to the wildlife ponds and the addition of chloroform pumping wells TW4-1, TW4-2, and TW4-11. Regardless of whether TW4-6 can be demonstrated to be within the hydraulic capture of TW4-4, pumping TW4-4 helps to reduce chloroform migration to TW4-6, TW4-26, and other downgradient locations by the mechanisms discussed above.

Likewise, pumping at other productive upgradient locations has a beneficial impact on downgradient chloroform even if the downgradient chloroform is not completely within the hydraulic capture of the productive upgradient well(s). For example, pumping at MW-26 likely

reduced chloroform concentrations at TW4-16 from a maximum of 530 µg/L in the second quarter of 2004 to less than 70 µg/L by the fourth quarter of 2005, and maintained concentrations below 70 µg/L until the second quarter of 2014, even though TW4-16 appears to be just beyond the hydraulic capture of MW-26. Furthermore, the overall hydraulic capture of the chloroform pumping system is expected to expand with continued operation of wells TW4-1, TW4-2, and TW4-11 which became operational during the first quarter of 2015, and wells TW4-21 and TW4-37 which became operational last quarter. Operation of these additional wells may have reversed the increase in concentration at TW4-16 which dropped from 387 µg/L in the fourth quarter of 2014 to less than 70 µg/L last quarter. Chloroform at TW4-16 was detected at 82 µg/L this quarter.

Chloroform exceeding 70 µg/L was detected at recently installed well TW4-29, located south of TW4-27 and east of TW4-26, and generally cross-gradient of TW4-4 and TW4-6 with respect to the groundwater flow directions implied by groundwater elevations in the area. As discussed in Section 4.1.1, this may represent chloroform migrating around the low permeability area defined by TW4-27, TW4-14 and TW4-36. The apparent migration pathway from TW4-4 to TW4-29 is consistent with chloroform exceeding 70 µg/L detected at recently installed well TW4-33, located between TW4-4 and TW4-29. Chloroform concentrations at TW4-33 that are lower than concentrations at TW4-29, and the likelihood that a pathway exists from TW4-4 to TW4-33 to TW4-29, suggest that concentrations in the vicinity of TW4-33 were likely higher prior to initiation of TW4-4 pumping. TW4-4 pumping is likely to eventually reduce chloroform at both TW4-33 and TW4-29 by cutting off the source. The impact at TW4-33 is expected to be greater than at TW4-29 because TW4-33 is in closer proximity to TW4-4 pumping. Such behavior is expected by analogy with the decreases in chloroform concentrations at TW4-6 and TW4-26 that occurred once TW4-4 pumping began. However, concentrations at both TW4-29 and TW4-33 were relatively stable (rather than decreasing) for several quarters after installation. Concentrations at TW4-29 appear to be on an upward trend since the third quarter of 2014, although concentrations decreased between the last quarter and the current quarter. Although decreasing concentration trends at both wells are eventually expected to occur, the concentration behavior at both wells has generally been consistent with the dual impacts of TW4-4 pumping and reduced dilution from the wildlife ponds.

Chloroform analytical results from recently installed wells TW4-35 and TW4-36 (as discussed in Section 4.2.3) demonstrate that chloroform is bounded to the southeast of TW4-29 and to the east of TW4-8.

4.2 Review of Analytical Results

4.2.1 Current Chloroform Isoconcentration Map

Included under Tab J of this Report is a current chloroform isoconcentration map for the Mill site. Details of the gridding procedure used to generate the chloroform isoconcentration map (consistent with Part III.B.2.a through Part III.B.2.c of the GCAP) are provided in Tab L.

4.2.2 Chloroform Concentration Trend Data and Graphs

Attached under Tab K are tables summarizing values for all required parameters, chloride, nitrate/nitrite, carbon tetrachloride, chloroform, chloromethane, and methylene chloride, for each well over time.

Attached under Tab K are graphs showing chloroform concentration trends in each monitor well over time.

4.2.3 Interpretation of Analytical Data

Comparing the chloroform analytical results to those of the previous quarter, as summarized in the tables included under Tab K, the following observations can be made:

- a) Chloroform concentrations have increased by more than 20% in the following wells compared to last quarter: TW4-9, TW4-16, TW4-19, TW4-24, and TW4-30;
- b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: MW-26, TW4-2, TW4-8, TW4-11, TW4-21, TW4-26, and TW4-37;
- c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-1, TW4-4, TW4-5, TW4-6, TW4-7, TW4-10, TW4-18, TW4-20, TW4-22, TW4-29, and TW4-33;
- d) Chloroform concentrations have remained non-detect in the following wells: MW-32, TW4-3, TW4-12, TW4-13, TW4-23, TW4-25, TW4-28, TW4-31, TW4-32, TW4-34, TW4-35, and TW4-36;
- e) The chloroform concentration in TW4-14 went from 1.8 $\mu\text{g/L}$ to non-detect this quarter; and
- f) The chloroform concentration in TW4-27 went from non-detect to 1.3 $\mu\text{g/L}$ this quarter.

As indicated, chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported for the wells during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Wells MW-26, TW4-2, TW4-8, TW4-9, TW4-11, TW4-16, TW4-19, TW4-21, TW4-24, TW4-26, TW4-30 and TW4-37 had changes in concentration greater than 20%. Of these, MW-26, TW4-2, TW4-11, TW4-19, TW4-21, and TW4-37 are chloroform pumping wells, and TW4-24 is a nitrate pumping well. TW4-8 is located adjacent to chloroform pumping well MW-4; TW4-9 is located near chloroform pumping wells MW-26, TW4-19, and TW4-20; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. TW4-26 is located immediately southwest of the plume boundary, and TW4-30 is located immediately downgradient of the leading edge of the chloroform plume.

Chloroform pumping wells TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 17,000, 19,100, and 7,810 µg/L, respectively. The chloroform concentration at recently installed pumping well TW4-37 was the highest detected this quarter, indicating the well is well placed to increase chloroform mass removal rates.

Since the last quarter, the chloroform concentration in TW4-20 decreased from 17,600 to 17,000 µg/L, the concentration in adjacent pumping well TW4-19 increased from 1,570 to 7,860 µg/L, and the concentration in nearby pumping well TW4-21 decreased from 366 to 281 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 8,050 µg/L to 7,810 µg/L. The chloroform concentration in nitrate pumping well TW4-24 increased from 4.3 to 46.9 µg/L, and TW4-24 remains outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, continues to bound the chloroform plume to the north.

Chloroform at TW4-8 (which was non-detect from the first quarter of 2008 through the fourth quarter of 2013) decreased in concentration from 981 µg/L to 747 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,290 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (non-detect). The increase in chloroform at TW4-27 from non-detect to approximately 1.3 µg/L since the previous quarter is consistent with ongoing, but slow, downgradient migration.

Chloroform at recently installed well TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) decreased from 329 µg/L to 276 µg/L. Chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 2.3 µg/L to approximately 3.3 µg/L. As with TW4-27, the change at TW4-30 is consistent with ongoing, but slow, downgradient migration. Chloroform at TW4-29 is bounded to the north by TW4-27 (1.3 µg/L), to the east by TW4-30 (3.3 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-26 (4.8 µg/L).

Chloroform at recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a slight decrease in concentration, from 127 µg/L to 123 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (non-detect), to the east by TW4-27 (1.3 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (4.8 µg/L). This chloroform distribution indicates that the plume southeast of TW4-4 is very narrow compared to more upgradient locations.

As discussed above, the chloroform concentration in TW4-6 remained at approximately 1,040 µg/L, and is within the chloroform plume boundary. Concentrations at TW4-6 exceeded 70 µg/L from the first quarter of 2009 through the third quarter of 2010, then remained below 70 µg/L

until the third quarter of 2014. Between initiation of pumping of TW4-4 in the first quarter of 2010 and the second quarter of 2014, concentrations at TW4-6 showed a net decrease from 1,000 $\mu\text{g/L}$ to 10.3 $\mu\text{g/L}$. TW4-6, installed in the second quarter of 2000, was the most downgradient temporary perched well prior to installation of temporary well TW4-23 in 2007 and temporary well TW4-26 in the second quarter of 2010. TW4-6 remained outside the chloroform plume between the second quarter of 2000 and the fourth quarter of 2008. TW4-6 likely remained outside the chloroform plume during this time due to a combination of 1) slow rates of downgradient chloroform migration in this area due to low permeability conditions and the effects of upgradient chloroform removal by pumping, and 2) natural attenuation.

The relatively slow rate of chloroform migration in the vicinity of TW4-6 in the past is demonstrated by comparing the rate of increase in chloroform at this well to the rate of increase in the nearest upgradient well TW4-4. Concentrations at TW4-4 increased from non-detect to more than 2,200 $\mu\text{g/L}$ within only 2 quarters whereas 16 quarters were required for concentrations in TW4-6 to increase from non-detect to only 81 $\mu\text{g/L}$. This behavior is consistent with hydraulic tests performed at TW4-4, TW4-6, and TW4-26 during the third quarter of 2010 that indicate a nearly two order of magnitude decrease in permeability south (downgradient) of TW4-4. Chloroform migration rates in the vicinity of well TW4-26 and recently installed wells TW4-29 and TW4-33 are also expected to be relatively slow due to upgradient pumping and relatively low permeability conditions. By analogy with the decreases in concentration at TW4-6 and TW4-26 that occurred after initiation of TW4-4 pumping, chloroform concentrations at TW4-29 and TW4-33 are expected to eventually trend downward.

Although changes in concentration have occurred in wells within the chloroform plume, the boundaries of the plume have not changed significantly since the last quarter, except for a slight expansion near TW4-24. Nitrate pumping generally caused the boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Over the previous six quarters, TW4-24 has been both inside and outside the plume and remains outside the plume this quarter, likely due to initiation of TW4-37 pumping and reduced productivity at TW4-24. Generally increased concentrations at TW4-6 and TW4-16 (both of which were within the chloroform plume in the past) since the second quarter of 2014 indicate that the plume boundary migrated to the southwest and re-incorporated both wells. TW4-6 remains within the plume this quarter and TW4-16 (with a concentration of approximately 82 $\mu\text{g/L}$) is again within the plume (after being outside the plume last quarter). Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, and TW4-11 to the chloroform pumping network in the first quarter of 2015, and TW4-21 and TW4-37 last quarter, is expected to have a beneficial impact. Reductions in concentrations at TW4-6 and TW4-16 after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

5.0 LONG TERM PUMP TEST AT MW-4, MW-26, TW4-19, TW4-20, AND TW4-4 OPERATIONS REPORT

5.1 Introduction

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

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 Stipulated Consent Order (the "SCO") dated December 12, 2012. Because wells TW4-22, TW4-24, and TW4-25 are chloroform program wells, they are included in this report and any chloroform removal realized as part of this pumping is calculated and included in the chloroform quarterly reports.

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 following information documents the operational activities during the quarter.

5.2 Pump Test Data Collection

The long term pump test for MW-4 was started on April 14, 2003, followed by the start of pumping from TW4-19 on April 30, 2003, from MW-26 on August 8, 2003, from TW4-20 on August 4, 2005, from TW4-4 on January 31, 2010, and from TW4-22, TW4-24, and TW4-25 on January 26, 2013. Personnel from Hydro Geo Chem, Inc. were on site to conduct the first phase of the pump test and collect the initial two days of monitoring data for MW-4. EFRI personnel have gathered subsequent water level and pumping data.

Analyses of hydraulic parameters and discussions of perched zone hydrogeology near MW-4 has been provided by Hydro Geo Chem in a separate report, dated November 12, 2001, and in the May 26, 2004 *Final Report on the Long Term Pumping Test*.

Data collected during the quarter included the following:

- Measurement of water levels at MW-4, TW4-19, MW-26, TW4-20, and TW4-4, on a weekly basis, and at selected temporary wells and permanent monitoring wells on a monthly basis.
- Measurement of pumping history, including:
 - pumping rates
 - total pumped volume
 - operational and non-operational periods.
- Periodic sampling of pumped water for chloroform and nitrate/nitrite analysis and other constituents

- Measurement of water levels weekly at TW4-22, TW4-24, TW4-25, and TWN-02 commencing January 28, 2013, and on a monthly basis for selected temporary wells and permanent monitoring wells.

5.3 Water Level Measurements

Beginning August 16, 2003, the frequency of water level measurements from MW-4, MW-26, and TW4-19 was reduced to weekly. From commencement of pumping TW4-20, and regularly after March 1, 2010 for TW4-4, water levels in these wells have been measured weekly. From commencement of pumping, water levels in wells TW4-1, TW4-2, TW4-11, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 have been measured weekly. Depth to groundwater in all other chloroform contaminant investigation wells is monitored monthly. Copies of the weekly Depth to Water monitoring sheets for MW-4, MW-26, TW4-1, TW4-2, TW4-11, TW4-19, TW4-20, TW4-21, TW4-4, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 and the monthly Depth to Water monitoring sheets for the chloroform contaminant investigation wells and the selected temporary wells and permanent monitoring wells are included under Tab C. Monthly depth to water measurements for the quarter are recorded in the Field Data Worksheets included under Tab C.

5.4 Pumping Rates and Volumes

Table G-2 summarizes the recovered mass of chloroform by well per quarter and historically since the inception of the chloroform recovery program for the active pumping wells. It is important to note that TWN-2 is a nitrate program well and is sampled only for nitrate and chloride as required by the nitrate program. Because TWN-2 is not sampled or analyzed for chloroform, the mass of chloroform recovered is not calculated.

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 transferred to a holding tank. The water in the holding tank is used in the Mill processes. The pumping rates and volumes for each of the pumping wells are shown in Table G-3. 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 additional operational problems were observed with the well or pumping equipment during the quarter.

5.4.1 MW-4

On July 7, 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 programmed, however, the display was incorrect. Pumping continued uninterrupted.

5.4.2 TW4-11

On August 24, 2015, Mill Field Personnel noted during the routine weekly inspection that the timer on TW4-11 lost memory and the timer settings were erased. The well continued to pump and no loss of data were noted. The timer was reset. The well continued to pump and no loss of data were noted. The timer was inspected daily for several days and no issues were noted.

On August 31, 2015, Mill Field Personnel noted during the routine weekly inspection that the timer on TW4-11 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 further issues were noted during subsequent checks. No official notifications to DWMRC were required as the issue was rectified within 24-hours and there was no loss of pumping.

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

5.5 Mass Removed and Plume Residual Mass

Chloroform removal was estimated as of the first quarter 2007. Since that estimation, the mass removed by well for each quarter has been compiled in Table G-2, which shows the pounds of chloroform that have been removed to date. The mass of chloroform removed from the plume this quarter is approximately 33.4 lb.

The residual mass of chloroform within the plume is estimated as 1712 lb using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). As per Part III.B.2 of the GCAP, electronic files used in calculating the mass estimate are provided with this report. Details of the procedure are provided in Tab L.

The residual mass is plotted in Figure L.1. Subsequent residual plume mass estimates will be calculated quarterly, added to the graph, and a trendline applied as per Part III.B.3 of the GCAP.

5.6 Inspections

All of the required inspections were completed and the inspection forms are included in Tab C.

5.7 Conditions That May Affect Water Levels in Piezometers

No water was added to the any of the wildlife ponds during the quarter.

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 are no corrective actions required during the previous monitoring period.

7.0 CURRENT COMPLIANCE STATUS

7.1 Long Term Chloroform Plume Control

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L (Tab J). The plume is bounded to the north by TW4-25 (non-detect); to the west and southwest by MW-31 (non-detect), MW-32 (non-detect), TW4-23 (non-detect), TW4-24 (approximately 47 µg/L), and TW4-26 (approximately 5 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 13 µg/L), TW4-9 (approximately 48 µg/L), TW4-13 (non-detect), TW4-14 (non-detect), TW4-18 (approximately 29 µg/L), TW4-27 (approximately 1 µg/L), TW4-30 (approximately 3 µg/L), and TW4-36 (non-detect); to the south by TW4-34 (non-detect); and to the southeast by TW4-35 (non-detect).

Data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume.

7.2 Well Construction, Maintenance and Operation

Part II of the GCAP specifies that EFRI must construct, maintain and operate the chloroform wells in accordance with the specifications delineated therein. No new wells were installed during the quarter and all previously installed wells were installed in accordance with the GCAP requirements. The existing wells were maintained and operated as required. Additional details regarding any specific pumping well operations and maintenance issues noted during the quarter are discussed in Section 5.0 above.

7.3 Disposal of Extracted Groundwater

Part II of the GCAP requires that all extracted groundwater be disposed of in the tailings management system or fed in the Mill process. All extracted groundwater was handled as required by the GCAP.

7.4 Compliance Well Performance

Part II.G of the GCAP states that an exceedance of the compliance well performance standard is defined as the presence of chloroform in any compliance monitoring well in excess of 70 µg/L for two or more quarters.

The compliance well chloroform concentrations were below the 70 µg/L during the quarter. Because there were no excursions of chloroform in any compliance monitoring wells, an Exceedance Notice and Plan and Time Schedule are not required.

7.5 Chloroform Plume Monitoring for Wells within 500 Feet of the Property Boundary

Currently there are no compliance wells within 500 feet of the property boundary.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The residual mass of chloroform within the plume is estimated as 1712 lb using the methodology described in Appendix A of the CAP (“Chloroform Plume Mass Calculation Method”). The mass of chloroform removed from the plume this quarter is approximately 33.4 lb.

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L. The plume is bounded to the north by TW4-25; to the west and southwest by MW-31, MW-32, TW4-23, TW4-24, and TW4-26; to the east by TW4-3, TW4-5, TW4-9, TW4-13, TW4-14, TW4-18, TW4-27, TW4-30, and TW4-36; to the south by TW4-34; and to the southeast by TW4-35. Data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume.

The water level contour maps for the third quarter, 2015 indicate effective capture of water containing high chloroform concentrations in the vicinity of chloroform pumping wells MW-4, MW-26, TW4-19, and TW4-20. Capture in the vicinity of MW-4 has been enhanced by start-up of chloroform pumping wells TW4-1, TW4-2, and TW4-11 during the first quarter of 2015. Well-defined capture zones are not clearly evident at chloroform pumping wells TW4-21 and TW4-37 which began pumping last quarter, nor at TW4-4. The capture zone associated with TW4-4 is likely obscured by the low water level at adjacent well TW4-14 and the two orders of magnitude decrease in permeability south of TW4-4. However, between the first quarter of 2010 and the second quarter of 2014, decreases in chloroform concentrations and the rate of water level rise at TW4-6 (located downgradient of TW4-4) likely resulted from TW4-4 pumping. Cones of depression associated with the nitrate pumping wells became evident as of the fourth quarter, 2013, and capture associated with the nitrate pumping is expected to continue to develop. The start-up of chloroform pumping wells TW4-21 and TW4-37 last quarter is also expected to increase capture and chloroform removal rates.

Chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells MW-26, TW4-2, TW4-8, TW4-9, TW4-11, TW4-16, TW4-19, TW4-21, TW4-24, TW4-26 and TW4-30. Of these, MW-26, TW4-2, TW4-11, TW4-19, TW4-21, and TW4-37 are chloroform pumping wells, and TW4-24 is a nitrate pumping well. TW4-8 is located adjacent to chloroform pumping well MW-4; TW4-9 is located near chloroform pumping wells MW-26, TW4-19, and TW4-20; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. TW4-26 is located immediately southwest of the plume boundary, and TW4-30 is located immediately downgradient of the leading edge of the chloroform plume. In addition, changes in concentrations at chloroform wells are expected to result from continued operation of nitrate

pumping wells as the capture associated with nitrate pumping expands and flow directions change locally.

Chloroform at TW4-8 (which was non-detect from the first quarter of 2008 through the fourth quarter of 2013) decreased in concentration from 981 $\mu\text{g/L}$ to 747 $\mu\text{g/L}$. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,290 $\mu\text{g/L}$. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (non-detect). The increase in chloroform at TW4-27 from non-detect to approximately 1.3 $\mu\text{g/L}$ since the previous quarter is consistent with ongoing, but slow, downgradient migration.

Chloroform pumping wells TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 17,000, 19,100, and 7,810 $\mu\text{g/L}$, respectively. The chloroform concentration at recently installed pumping well TW4-37 was the highest detected this quarter, indicating the well is well placed to increase chloroform mass removal rates.

Since the last quarter, the chloroform concentration in TW4-20 decreased from 17,600 to 17,000 $\mu\text{g/L}$, the concentration in adjacent pumping well TW4-19 increased from 1,570 to 7,860 $\mu\text{g/L}$, and the concentration in nearby pumping well TW4-21 decreased from 366 to 281 $\mu\text{g/L}$. The chloroform concentration in nitrate pumping well TW4-22 decreased from 8,050 $\mu\text{g/L}$ to 7,810 $\mu\text{g/L}$. The chloroform concentration in nitrate pumping well TW4-24 increased from 4.3 to 46.9 $\mu\text{g/L}$, and TW4-24 remains outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, continues to bound the chloroform plume to the north.

Chloroform at recently installed well TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) decreased from 329 $\mu\text{g/L}$ to 276 $\mu\text{g/L}$. Chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 2.3 $\mu\text{g/L}$ to approximately 3.3 $\mu\text{g/L}$. As with TW4-27, the change at TW4-30 is consistent with ongoing, but slow, downgradient migration. Chloroform at TW4-29 is bounded to the north by TW4-27 (1.3 $\mu\text{g/L}$), to the east by TW4-30 (3.3 $\mu\text{g/L}$), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-26 (4.8 $\mu\text{g/L}$).

Chloroform at recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a slight decrease in concentration, from 127 $\mu\text{g/L}$ to 123 $\mu\text{g/L}$. Chloroform at TW4-33 is bounded to the north by TW4-14 (non-detect), to the east by TW4-27 (1.3 $\mu\text{g/L}$), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (4.8 $\mu\text{g/L}$). This chloroform distribution indicates that the plume southeast of TW4-4 is very narrow compared to more upgradient locations.

Although changes in concentration have occurred in wells within the chloroform plume, the boundaries of the plume have not changed significantly since the last quarter, except for a slight expansion near TW4-24. Nitrate pumping generally caused the boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Over the previous six quarters, TW4-24 has been both inside and outside the plume and remains outside the plume this quarter, likely due to initiation of TW4-37 pumping and reduced productivity at TW4-24. Generally increased concentrations at TW4-6 and TW4-16 (both of which were within the chloroform plume in the past) since the second quarter of 2014 indicate that the plume boundary migrated to the southwest and re-incorporated both wells. TW4-6 remains within the plume this quarter and TW4-16 (with a concentration of approximately 82 µg/L) is again within the plume (after being outside the plume last quarter). Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, and TW4-11 to the chloroform pumping network in the first quarter of 2015, and TW4-21 and TW4-37 last quarter, is expected to have a beneficial impact. Reductions in concentrations at TW4-6 and TW4-16 after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

Continued operation of chloroform pumping wells MW-4, MW-26, TW4-19, and TW4-20 is recommended. Pumping these wells, regardless of any short term fluctuations in concentrations detected at the wells (such as at TW4-20), helps to reduce downgradient chloroform migration by removing chloroform mass and reducing hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued operation of chloroform pumping well TW4-4 is also recommended to improve capture of chloroform to the extent practical in the southern portion of the plume. The overall decrease in chloroform concentrations at TW4-6 from 1,000 µg/L in the first quarter of 2010 to 10.3 µg/L in the second quarter of 2014 is likely related to pumping at TW4-4. The decrease in the long-term rate of water level rise at TW4-6 since TW4-4 pumping began, which suggests that TW4-6 is within the hydraulic influence of TW4-4, is also consistent with the decrease in chloroform concentrations at TW4-6 between the first quarter of 2010 and the second quarter of 2014. Furthermore, because of the influence of TW4-4 pumping, and by analogy with the concentration decreases at TW4-6 and TW4-26 that occurred after initiation of TW4-4 pumping, chloroform concentrations at TW4-29 and TW4-33 are expected to eventually trend downward. Since installation in 2013, however, concentrations at TW4-33 appear to be relatively stable; and concentrations at TW4-29 appear to be on an upward trend since the third quarter of 2014, although concentrations decreased between the last quarter and the current quarter. The relative stability at TW4-33 may result from the dual impacts of reduced dilution from wildlife ponds and TW4-4 pumping. The apparently increasing trend at TW4-29 may be related to reduced dilution and its greater distance from TW4-4. Several more quarters of data will be likely required before trends at these wells can be properly evaluated.

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 DWMRC 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 are expected to increase constituent concentrations within the plumes while reducing hydraulic gradients and rates of plume migration. Recent increases in chloroform concentrations at TW4-6, TW4-8, TW4-9, and TW4-16 are likely related in part to reduced dilution.

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

9.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Executive Secretary an electronic copy of the laboratory results for groundwater quality monitoring conducted under the chloroform contaminant investigation during the quarter, in Comma Separated Values format. A copy of the transmittal e-mail is included under Tab M.

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

10.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on November 24, 2015

Energy Fuels Resources (USA) Inc.

By:



Scott A. Bakken
Senior Director Regulatory Affairs

Tables

Table 1: Summary of Well Sampling for the Period

Well	Sample Date	Date of Lab Report
MW-04	9/4/2012	9/25/2012
TW4-01	9/13/2012	10/1/2012
TW4-02	9/13/2012	10/1/2012
TW4-03	8/29/2012	9/12/2012
TW4-03R	8/28/2012	9/12/2012
TW4-04	9/4/2012	9/25/2012
TW4-05	9/11/2012	10/1/2012
TW4-06	9/11/2012	10/1/2012
TW4-07	9/13/2012	10/1/2012
TW4-08	8/29/2012	9/12/2012
TW4-09	8/30/2012	9/12/2012
TW4-10	9/12/2012	10/1/2012
TW4-11	9/13/2012	10/1/2012
TW4-12	8/29/2012	9/12/2012
TW4-13	8/29/2012	9/12/2012
TW4-14	8/29/2012	9/12/2012
MW-26	9/4/2012	9/25/2012
TW4-16	8/30/2012	9/12/2012
MW-32	9/5/2012	9/25/2012
TW4-18	9/11/2012	10/1/2012
TW4-19	9/5/2012	9/25/2012
TW4-20	9/4/2012	9/25/2012
TW4-21	9/13/2012	10/1/2012
TW4-22	9/12/2012	10/1/2012
TW4-23	8/29/2012	9/12/2012
TW4-24	8/30/2012	9/12/2012
TW4-25	9/11/2012	10/1/2012
TW4-25R	9/10/2012	10/1/2012
TW4-26	9/11/2012	10/1/2012
TW4-27	8/30/2012	9/12/2012
TW4-60	9/13/2012	10/1/2012
TW4-65	9/5/2012	9/25/2012
TW4-70	9/11/2012	10/1/2012

All sample locations were sampled for Chloroform, Carbon Tetrachloride, Chloromethane, Methylene Chloride, Chloride and Nitrogen

"R" following a well number designates a rinsate sample collected prior to purging of the well of that number.

TW4-60 is a DI Field Blank, MW-65 is a duplicate of MW-32, and TW4-70 is a duplicate of TW4-25.

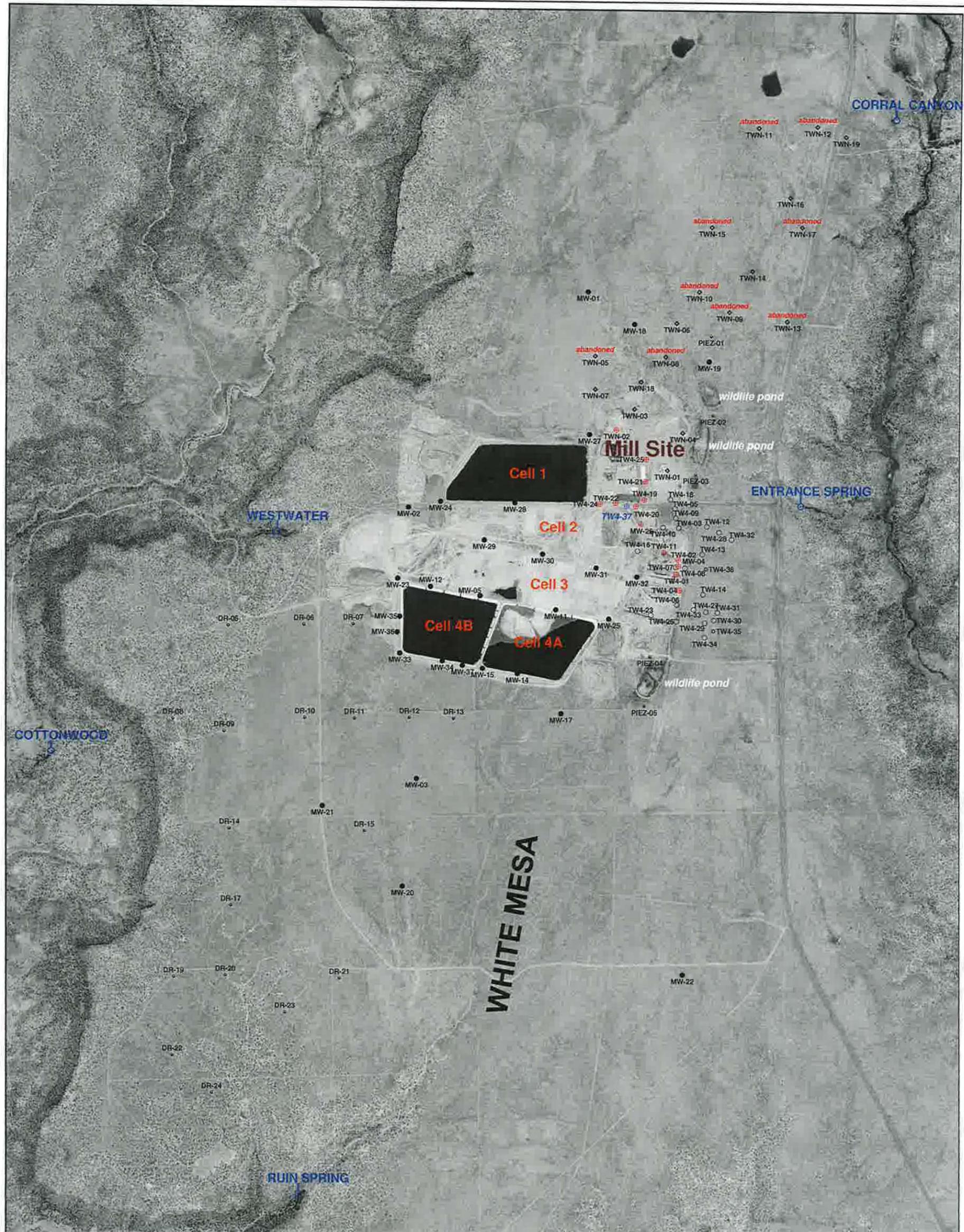
Highlighted wells are continuously pumped.

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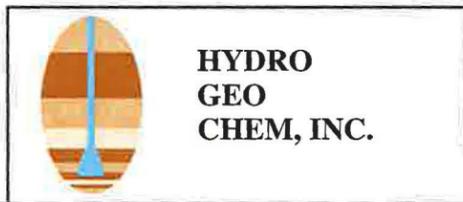
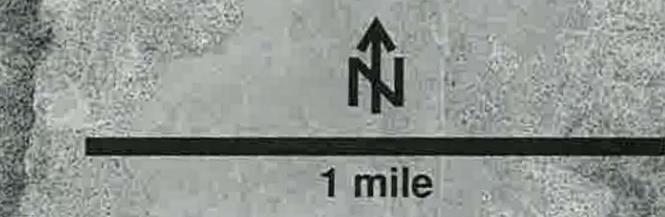
Tab A

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



WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov15/Uwelloc0915.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 3rd Quarter 2015 Chloroform Purging Event

Well	Chloroform		Rinsate date/time	Water level	Well Depth	
	Sample time	Levels				
TW4-03	<u>9/2/15 0705</u>	ND			141	TW4-03R_09012015 0737
TW4-12	<u>9/2/15 0715</u>	ND - Dup			101.5	
TW4-28	<u>9/2/15 0725</u>	ND			107	
TW4-32	<u>9/2/15 0730</u>	ND			115.1	
TW4-13	<u>9/2/15 0737</u>	ND			102.5	
TW4-36	<u>9/2/15 0743</u>	ND			99	
TW4-27	<u>9/2/15 0750</u>	ND			96	
TW4-31	<u>9/2/15 0757</u>	ND			106	
TW4-34	<u>9/3/15 0754</u>	ND			97.2	
TW4-35	<u>9/3/15 0803</u>	ND			87.5	
TW4-23	<u>9/3/15 0813</u>	ND			114	
- MW-32	<u>9/9/15 1310</u>	ND			132.5	Bladder pump
TW4-25	<u>8/31/15 1335</u>	ND			134.8	Cont. Pumping
TW4-14	<u>9/3/15 0825</u>	1.82			93	
TW4-30	<u>9/3/15 0834</u>	2.25			92.5	
TW4-24	<u>8/31/15 1348</u>	4.28			112.5	Cont. Pumping
TW4-26	<u>9/3/15 0844</u>	6.12			86	
TW4-05	<u>9/3/15 0853</u>	13.3			120	
TW4-18	<u>9/3/15 0901</u>	30.5			137.5	
TW4-09	<u>9/3/15 0910</u>	35.1			120	
TW4-16	<u>9/3/15 0917</u>	65.3			142	
TW4-33	<u>9/3/15 0925</u>	127			87.9	
TW4-29	<u>9/3/15 0933</u>	329			93.5	
TW4-21	<u>8/31/15 1327</u>	366			121	TW4-07R_09092015 0823 -
- TW4-07	<u>9/10/15 0703</u>	950			120	
- TW4-08	<u>9/10/15 0710</u>	981			125	
- TW4-06	<u>9/10/15 0715</u>	1040			97.5	
- TW4-10	<u>9/10/15 0723</u>	1240			111	
TW4-01	<u>8/31/15 1502</u>	1260			110	
TW4-04	<u>8/31/15 1512</u>	1280			112	Cont. Pumping
MW-04	<u>8/31/15 1455</u>	1300			124	Cont. Pumping
TW4-19	<u>8/31/15 1535</u>	1570			125	Cont. Pumping
TW4-02	<u>8/31/15 1437</u>	1650			120	
MW-26	<u>8/31/15 1420</u>	1980			122.5	Cont. Pumping
TW4-11	<u>8/31/15 1428</u>	2710			100	
TW4-22	<u>8/31/15 1359</u>	8050			113.5	Cont. Pumping
TW4-20	<u>8/31/15 1413</u>	17600			106	Cont. Pumping
TW4-37	<u>8/31/15 1405</u>	30200			112	Cont. Pumping
- TW4-60	D.I. Blank	<u>9/10/15 0745</u>				
TW4-65	Duplicate	<u>9/2/15 0715</u>				
23 TW4-70	Duplicate	<u>9/3/15 0813</u>				

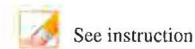
Comments:

Name: _____

Date: _____



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

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

Field Sample ID MW-04_083/2015

Date and Time for Purging 8/31/2015 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 TW4-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 124.00

Depth to Water Before Purging 81.00

Casing Volume (V) 4" Well: 0 (.653h)
 3" Well: 15.78 (.367h)
15.78

Weather Cond. Sunny

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

Time	<u>1454</u>	Gal. Purged	<u>0</u>
Conductance	<u>1842</u>	pH	<u>6.86</u>
Temp. °C	<u>16.15</u>		
Redox Potential Eh (mV)	<u>257</u>		
Turbidity (NTU)	<u>0</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

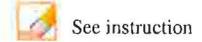
Comment

Arrived on site at 1451 Tanner and Garrin present to collect samples
 Samples collected at 1455 Water was clear
 Left site at 1457

MW-04 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-01 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-01-08312015

Date and Time for Purging: 8/31/2015 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: MW-04

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 80.50 Casing Volume (V) 4" Well: 19.26 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1501</u>	Gal. Purged	<u>0</u>
Conductance	<u>2222</u>	pH	<u>6.74</u>
Temp. °C	<u>15.64</u>		
Redox Potential Eh (mV)	<u>244</u>		
Turbidity (NTU)	<u>12.1</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

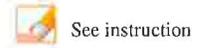
Comment

Arrived on site at 1458 Tanner and Garrin present to collect samples
 Samples collected at 1502 Water was mostly clear.
 Left site at 1506

TW4-01 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event:

Location (well name): Sampler Name and initials:

Field Sample ID

Date and Time for Purging and Sampling (if different)

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

Purging Method Used: 2 casings 3 casings

Sampling Event Prev. Well Sampled in Sampling Event

pH Buffer 7.0 pH Buffer 4.0

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

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

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

Time	<input type="text" value="1436"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3315"/>	pH	<input type="text" value="6.69"/>
Temp. °C	<input type="text" value="16.19"/>		
Redox Potential Eh (mV)	<input type="text" value="229"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

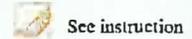
Arrived on site at 1433 Tanner and Garrin present to collect samples
 Samples collected at 1437 Water was clear
 Left site at 1444

TW4-02 08-31-2015 Do not touch this cell (SheetName)

170,5



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-03 Sampler Name and initials: Tanner Holiday/TH

Field Sample ID TW4-03_09022015

Date and Time for Purging 9/1/2015 and Sampling (if different) 9/2/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-03R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/cm Well Depth(0.01ft): 141.00

Depth to Water Before Purging 55.92 Casing Volume (V) 4" Well: 55.55 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>0822</u>	Gal. Purged	<u>85.25</u>
Conductance	<u>1691</u>	pH	<u>6.76</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>370</u>		
Turbidity (NTU)	<u>21</u>		

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

Time	<u>0704</u>	Gal. Purged	<u>0</u>
Conductance	<u>1676</u>	pH	<u>6.50</u>
Temp. °C	<u>15.89</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0706</u>	Gal. Purged	<u>0</u>
Conductance	<u>1681</u>	pH	<u>6.54</u>
Temp. °C	<u>15.94</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

4. vander 08 21.1. / Template "1450" Printed: 4/24/2015 2:09 PM File: 810200000002

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

See instruction

Comment

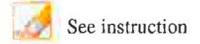
Arrived on site at 0809 Tanner and Garrin present for purge. Purge began at 0814 Purged well for a total of 7 minutes and 45 seconds Purged well dry! Purge ended at 0822 water was mostly clear. Left site at 0825

Arrived on site at 0702 Tanner and Garrin present to collect samples. Depth to water was 56.18 samples bailed at 0705 Left site at 0708

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



Description of Sampling Event: 3rd Quarter @ Chloroform 2015

Location (well name): TW4-03R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-03R_09012015

Date and Time for Purging 9/1/2015

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 Chloroform

Prev. Well Sampled in Sampling Event TW4-19

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

3" Well: 0 (.367h)

Weather Cond. Partly cloudy

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

Time	<u>0736</u>	Gal. Purged	<u>121</u>
Conductance	<u>3.5</u>	pH	<u>8.10</u>
Temp. °C	<u>21.73</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

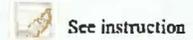
Comment

Arrived on site at 0723 Tanner and Garrin present for rinsate. Rinsate began at 0725
 Pumped 50 Gallons of soap water and 100 Gallons of DI water.
 Samples collected at 0737

TW4-03R 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-04 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-04_08/31/2015

Date and Time for Purging 8/31/2015 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 TW4-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/cm

Well Depth(0.01ft): 112.00

Depth to Water Before Purging 72.10

Casing Volume (V) 4" Well: 26.05 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1511</u>	Gal. Purged	<u>0</u>
Conductance	<u>2304</u>	pH	<u>6.67</u>
Temp. °C	<u>15.31</u>		
Redox Potential Eh (mV)	<u>277</u>		
Turbidity (NTU)	<u>3.2</u>		

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

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

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

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

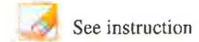
Comment

Arrived on site at 1508 Tanner and Garrin present to collect samples.
 Samples collected at 1512 Water was clear
 Left site at 1516

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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-05_09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-26

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 63.70

Casing Volume (V) 4" Well: 36.76 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly cloudy

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

Time	<u>1239</u>	Gal. Purged	<u>55</u>
Conductance	<u>1458</u>	pH	<u>6.68</u>
Temp. °C	<u>15.59</u>		
Redox Potential Eh (mV)	<u>279</u>		
Turbidity (NTU)	<u>39</u>		

Time	<u>1240</u>	Gal. Purged	<u>66</u>
Conductance	<u>1463</u>	pH	<u>6.68</u>
Temp. °C	<u>15.59</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>39</u>		

Time	<u>1241</u>	Gal. Purged	<u>77</u>
Conductance	<u>1452</u>	pH	<u>6.68</u>
Temp. °C	<u>15.59</u>		
Redox Potential Eh (mV)	<u>277</u>		
Turbidity (NTU)	<u>40</u>		

Time	<u>1242</u>	Gal. Purged	<u>88</u>
Conductance	<u>1442</u>	pH	<u>6.66</u>
Temp. °C	<u>15.59</u>		
Redox Potential Eh (mV)	<u>277</u>		
Turbidity (NTU)	<u>40</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

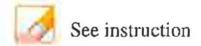
Arrived on site at 1231 Tanner and Garrin present for purge. Purge began at 1234 Purged well for a total of 8 minutes . Purge ended at 1242 water was a little murky. Left site at 1245

Arrived on site at 0850 Tanner and Garrin present to collect samples. Depth to water was 63.75 samples bailed at 0853 Left site at 0855

TW4-05 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-06 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-06_09102015

Date and Time for Purging 9/9/2015 and Sampling (if different) 9/10/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-08

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 97.50

Depth to Water Before Purging 71.35 Casing Volume (V) 4" Well: 17.07 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 77°
27°

Time	<u>1346</u>	Gal. Purged	<u>22</u>
Conductance	<u>3138</u>	pH	<u>6.99</u>
Temp. °C	<u>16.10</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>95</u>		

Time	<u>0714</u>	Gal. Purged	<u>0</u>
Conductance	<u>3295</u>	pH	<u>7.30</u>
Temp. °C	<u>14.81</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

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

Time	<u>0716</u>	Gal. Purged	<u>0</u>
Conductance	<u>3301</u>	pH	<u>7.28</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged gallon(s) .

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1340 Tanner and Garrin present for purge. Purge began at 1344
Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1346
water was a little murky. Left site at 1349

Arrived on site at 0712 Tanner and Garrin present to collect samples. Depth to water was 71.75. samples bailed at 0715 Left site at 0718

TW4-06 09-09-2015 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: 3rd Quarter chloroform 2015

Location (well name): TW4-07 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-07_09102015

Date and Time for Purging 9/9/2015 and Sampling (if different) 9/10/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-07R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging 74.75 Casing Volume (V) 4" Well: 29.54 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 14°

Time	<u>0848</u>	Gal. Purged	<u>58.66</u>
Conductance	<u>1601</u>	pH	<u>7.16</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>247</u>		
Turbidity (NTU)	<u>48</u>		

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

Time	<u>0702</u>	Gal. Purged	<u>0</u>
Conductance	<u>1562</u>	pH	<u>7.49</u>
Temp. °C	<u>15.68</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0704</u>	Gal. Purged	<u>0</u>
Conductance	<u>1580</u>	pH	<u>7.47</u>
Temp. °C	<u>15.73</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

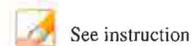
Arrived on site at 0841 Tanner and Garrin present for purge. Purge began at 0843 Purged well for a total of 5 minutes 20 seconds. Purged well dry. Purge ended at 0848. water was mostly clear. Left site at 0851

Arrived on site at 0700 Tanner and Garrin present to collect samples. Depth to water was 75.65 samples bailed at 0703 Left site at 0706

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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-07R Sampler Name and initials: Tanner Holliday / TH

Field Sample ID TW4-07R_09092015

Date and Time for Purging 9/9/2015 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 Chloroform Prev. Well Sampled in Sampling Event MW-32

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

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 74°

Time	<u>0822</u>	Gal. Purged	<u>132</u>
Conductance	<u>5.9</u>	pH	<u>8.10</u>
Temp. °C	<u>20.15</u>		
Redox Potential Eh (mV)	<u>336</u>		
Turbidity (NTU)	<u>0</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time
 0823

 See instruction

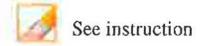
Comment

Arrived on site at 0800. Tanner and Garrin present for rinsate. Rinsate began at 0810
 Pumped 50 Gallons of soap water and 100 Gallons of DI water
 samples were collected at 0823
 Left site at 0835

TW4-07R 09-09-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-08 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-08_09102015

Date and Time for Purging 9/9/2015 and Sampling (if different) 9/10/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-07

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 125.00

Depth to Water Before Purging 76.00 Casing Volume (V) 4" Well: 31.99 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>0917</u>	Gal. Purged	<u>44</u>
Conductance	<u>4623</u>	pH	<u>6.77</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>20</u>		

Time	<u>0918</u>	Gal. Purged	<u>55</u>
Conductance	<u>4621</u>	pH	<u>6.78</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>21</u>		

Time	<u>0919</u>	Gal. Purged	<u>66</u>
Conductance	<u>4623</u>	pH	<u>6.78</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>21</u>		

Time	<u>0920</u>	Gal. Purged	<u>77</u>
Conductance	<u>4618</u>	pH	<u>6.78</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>21</u>		

Volume of Water Purged gallon(s)

77

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time



See instruction

Comment

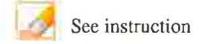
Arrived on site at 0910 Tanner and Garrin present for purge. Purge began at 0913
 Purged well for a total of 7 minutes, water was clear. Purge ended at 0920
 Left site at 0923

Arrived on site at 0707 Tanner and Garrin present to collect samples. Depth to water was 76.25
 Samples bailed at 0710 Left site at 0711

TW4-08 09-09-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-09 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-09_09032015

Date and Time for Purging 9/2/2015 and Sampling (if different) 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-18

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 61.55

Casing Volume (V) 4" Well: 38.16 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	<u>1348</u>	Gal. Purged	<u>55</u>
Conductance	<u>2397</u>	pH	<u>6.54</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>282</u>		
Turbidity (NTU)	<u>46</u>		

Time	<u>1349</u>	Gal. Purged	<u>66</u>
Conductance	<u>2394</u>	pH	<u>6.54</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>46</u>		

Time	<u>1350</u>	Gal. Purged	<u>77</u>
Conductance	<u>2398</u>	pH	<u>6.54</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>279</u>		
Turbidity (NTU)	<u>46</u>		

Time	<u>1351</u>	Gal. Purged	<u>88</u>
Conductance	<u>2398</u>	pH	<u>6.54</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>46</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

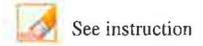
Comment

Arrived on site at 1340. Tanner and Garrin present for purge. Purge began at 1343
 Purged well for a total of 8 minutes. Purge ended at 1351
 water was a little murky. Left site at 1355
 Arrived on site at 0907 Tanner and Garrin present to collect samples. Depth to water was 61.59. samples bailed at 0910 Left site at 0912

TW4-09 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-10 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-10-09102015

Date and Time for Purging: 9/9/2015 and Sampling (if different): 9/10/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-06

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μMHOS/ cm Well Depth(0.01ft): 111.00

Depth to Water Before Purging: 61.19 Casing Volume (V) 4" Well: 32.52 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 27°

Time	<u>1414</u>	Gal. Purged	<u>49.50</u>
Conductance	<u>2801</u>	pH	<u>6.23</u>
Temp. °C	<u>15.54</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>32</u>		

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

Time	<u>0722</u>	Gal. Purged	<u>0</u>
Conductance	<u>2700</u>	pH	<u>6.96</u>
Temp. °C	<u>14.29</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0724</u>	Gal. Purged	<u>0</u>
Conductance	<u>2724</u>	pH	<u>6.92</u>
Temp. °C	<u>14.33</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

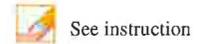
Arrived on site at 1407 Tanner and Garrin present for purge. Purge began at 1410 Purged well for a total of 4 minutes 30 seconds. Purged well dry! Purge ended at 1414. Water was mostly clear. Left site at 1418

Arrived on site at 0720. Tanner and Garrin present to collect samples. Depth to water was 61.30 samples bailed at 0723 Left site at 0726

TW4-10 09-09-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): MW-11 TW4-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-11-08312015 TW4-11-08312015 TW4-11_08312015

Date and Time for Purging 8/31/2015 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 MW-26

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 100.00

Depth to Water Before Purging 69.40 Casing Volume (V) 4" Well: 19.98 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 27°

Time	<u>1427</u>	Gal. Purged	<u>0</u>
Conductance	<u>3464</u>	pH	<u>6.82</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>177</u>		
Turbidity (NTU)	<u>8.1</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

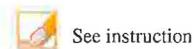
Comment

Arrived on site at 1425 Tanner and Garrin present to collect samples
 Samples collected at 1428 Water was clear
 Left site at 1432

TW4-11 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-12 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-12_09022015

Date and Time for Purging 9/1/2015 and Sampling (if different) 9/2/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-03

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 101.50

Depth to Water Before Purging 45.31 Casing Volume (V) 4" Well: 36.69 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 18°

Time	<u>0854</u>	Gal. Purged	<u>55</u>
Conductance	<u>1331</u>	pH	<u>7.02</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>25</u>		

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

Time	<u>0714</u>	Gal. Purged	<u>0</u>
Conductance	<u>1278</u>	pH	<u>7.06</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0717</u>	Gal. Purged	<u>0</u>
Conductance	<u>1296</u>	pH	<u>7.05</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0846 Tanner and Garrin present for purge. Purge began at 0849
 Purged well for a total of 5 minutes. Purged well dry! Purge ended at 0854
 water was mostly clear. Left site at 0857
 Arrived on site at 0712 Tanner and Garrin present to collect samples. Depth to water was 45.35
 samples bailed at 0715 Left site at 0718

TW4-12 09-01-2015 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-13-09022015

Date and Time for Purging 9/1/2015

and Sampling (if different) 9/2/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-32

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 102.50

Depth to Water Before Purging 51.20

Casing Volume (V) 4" Well: 33.49 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1219</u>	Gal. Purged	<u>47.66</u>
Conductance	<u>1970</u>	pH	<u>6.89</u>
Temp. °C	<u>15.35</u>		
Redox Potential Eh (mV)	<u>386</u>		
Turbidity (NTU)	<u>35</u>		

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

Time	<u>0736</u>	Gal. Purged	<u>0</u>
Conductance	<u>1872</u>	pH	<u>7.14</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0738</u>	Gal. Purged	<u>0</u>
Conductance	<u>1890</u>	pH	<u>7.11</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

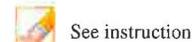
Comment

Arrived on site at 1212 Tanner and Garrin present for purge. Purge began at 1215
 Purged well for a total of 4 minutes and 20 seconds. Purged well dry! Purge ended at
 1219. water was mostly clear. Left site 1223
 Arrived on site at 0734 Tanner and Garrin present to collect samples. Depth to water was
 51.30 samples bailed at 0737 Left site at 0739

TW4-13 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-14 Sampler Name and initials: Tanner Holiday/TH

Field Sample ID: TW4-14-09032015

Date and Time for Purging: 9/2/2015 and Sampling (if different): 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-23

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/ cm Well Depth(0.01ft): 93.00

Depth to Water Before Purging: 80.94 Casing Volume (V) 4" Well: 7.87 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 18°

Time	<u>1008</u>	Gal. Purged	<u>11</u>
Conductance	<u>4988</u>	pH	<u>7.02</u>
Temp. °C	<u>16.20</u>		
Redox Potential Eh (mV)	<u>236</u>		
Turbidity (NTU)	<u>23</u>		

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

Time	<u>0824</u>	Gal. Purged	<u>0</u>
Conductance	<u>4960</u>	pH	<u>6.66</u>
Temp. °C	<u>15.18</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0826</u>	Gal. Purged	<u>0</u>
Conductance	<u>4972</u>	pH	<u>6.70</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

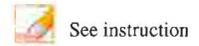
Arrived on site at 1005 Tanner and Garrin present for purge. Purge began at 1007 Purged well for a total of 1 minute. Purged well dry. Purge ended at 1008. water was mostly clear. Left site at 1011

Arrived on site at 0822 Tanner and Garrin present to collect samples. Depth to water was 80.99 Samples bailed at 0825 Left site at 0827

TW4-14 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event:

Location (well name): Sampler Name and initials:

Field Sample ID

Date and Time for Purging and Sampling (if different)

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

Purging Method Used: 2 casings 3 casings

Sampling Event Prev. Well Sampled in Sampling Event

pH Buffer 7.0 pH Buffer 4.0

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

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

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

Time	<input type="text" value="1419"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3391"/>	pH	<input type="text" value="6.62"/>
Temp. °C	<input type="text" value="17.01"/>		
Redox Potential Eh (mV)	<input type="text" value="197"/>		
Turbidity (NTU)	<input type="text" value="3.4"/>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm:

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1417 Tanner and Garrin present to collect samples
 Samples collected at 1420 water was mostly clear
 Left site at 1423

MW-26 08-31-2015 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-16 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-16_09032015

Date and Time for Purging: 9/2/2015 and Sampling (if different): 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-09

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging: 63.48 Casing Volume (V) 4" Well: 51.27 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1442</u>	Gal. Purged	<u>88</u>
Conductance	<u>748</u>	pH	<u>6.60</u>
Temp. °C	<u>15.12</u>		
Redox Potential Eh (mV)	<u>239</u>		
Turbidity (NTU)	<u>36</u>		

Time	<u>1443</u>	Gal. Purged	<u>99</u>
Conductance	<u>727</u>	pH	<u>6.57</u>
Temp. °C	<u>15.11</u>		
Redox Potential Eh (mV)	<u>239</u>		
Turbidity (NTU)	<u>36</u>		

Time	<u>1444</u>	Gal. Purged	<u>110</u>
Conductance	<u>717</u>	pH	<u>6.58</u>
Temp. °C	<u>15.11</u>		
Redox Potential Eh (mV)	<u>238</u>		
Turbidity (NTU)	<u>36</u>		

Time	<u>1445</u>	Gal. Purged	<u>121</u>
Conductance	<u>737</u>	pH	<u>6.58</u>
Temp. °C	<u>15.12</u>		
Redox Potential Eh (mV)	<u>237</u>		
Turbidity (NTU)	<u>36</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

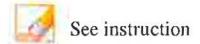
Comment

Arrived on site at 1431 Tanner and Garrin present for purge. Purge began at 1434
 Purged well for a total of 11 minutes. Purge ended at 1445
 water was murky. Left site at 1448
 Arrived on site at 0914 Tanner and Garrin present to collect samples. Depth to water
 was 63.68 samples bailed at 0917 Left site at 0919

TW4-16 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event:

Location (well name): Sampler Name and initials:

Field Sample ID

Date and Time for Purging and Sampling (if different)

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

Purging Method Used: 2 casings 3 casings

Sampling Event Prev. Well Sampled in Sampling Event

pH Buffer 7.0 pH Buffer 4.0

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

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

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

Time	<input type="text" value="1307"/>	Gal. Purged	<input type="text" value="77.46"/>
Conductance	<input type="text" value="3668"/>	pH	<input type="text" value="7.15"/>
Temp. °C	<input type="text" value="15.67"/>		
Redox Potential Eh (mV)	<input type="text" value="134"/>		
Turbidity (NTU)	<input type="text" value="35"/>		

Time	<input type="text" value="1308"/>	Gal. Purged	<input type="text" value="77.68"/>
Conductance	<input type="text" value="3650"/>	pH	<input type="text" value="7.15"/>
Temp. °C	<input type="text" value="15.70"/>		
Redox Potential Eh (mV)	<input type="text" value="139"/>		
Turbidity (NTU)	<input type="text" value="34"/>		

Time	<input type="text" value="1309"/>	Gal. Purged	<input type="text" value="77.90"/>
Conductance	<input type="text" value="3674"/>	pH	<input type="text" value="7.15"/>
Temp. °C	<input type="text" value="15.69"/>		
Redox Potential Eh (mV)	<input type="text" value="134"/>		
Turbidity (NTU)	<input type="text" value="34"/>		

Time	<input type="text" value="1310"/>	Gal. Purged	<input type="text" value="78.12"/>
Conductance	<input type="text" value="3690"/>	pH	<input type="text" value="7.14"/>
Temp. °C	<input type="text" value="15.63"/>		
Redox Potential Eh (mV)	<input type="text" value="133"/>		
Turbidity (NTU)	<input type="text" value="33"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

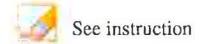
Comment

Arriving on site at 0705. Tanner and Garrin present for purge and sampling event. Purge began at 0710. Purged well for a total of 360 minutes. QED pump was acting funny surging with air bubbles. samples collected at 1310, water was a little murky. Left site at 1316.

MW-32 09-09-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-18 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-18_09032015

Date and Time for Purging 9/2/2015 and Sampling (if different) 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-05

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 137.50

Depth to Water Before Purging 64.55 Casing Volume (V) 4" Well: 47.63 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 27°

Time	<u>1317</u>	Gal. Purged	<u>77</u>
	<u>1315</u>		
Conductance	<u>903</u>	pH	<u>6.35</u>
Temp. °C	<u>15.66</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>74</u>		

Time	<u>1318</u>	Gal. Purged	<u>88</u>
	<u>1316</u>		
Conductance	<u>853</u>	pH	<u>6.36</u>
Temp. °C	<u>15.65</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>73</u>		

Time	<u>1319</u>	Gal. Purged	<u>99</u>
	<u>1317</u>		
Conductance	<u>851</u>	pH	<u>6.38</u>
Temp. °C	<u>15.64</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>73</u>		

Time	<u>1320</u>	Gal. Purged	<u>110</u>
	<u>1318</u>		
Conductance	<u>870</u>	pH	<u>6.37</u>
Temp. °C	<u>15.63</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>73</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

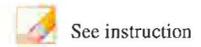
Arrived on site at 1305 Tanner and Garrin present for purge. Purge began at 1308 Purged well for a total of 10 minutes. Purge ended at 1318. water was murky. Left site at 1322

Arrived on site at 0858 Tanner and Garrin present to collect samples. Depth to water was 64.58 samples bailed at 0901 Left site at 0903

TW4-18 09-02-2013 Do not touch this cell (SheetName)



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



Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet)

Purging Method Used: 2 casings 3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance μ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

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

Weather Cond.

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

Time	<input type="text" value="1534"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="617"/>	pH	<input type="text" value="6.75"/>
Temp. °C	<input type="text" value="16.8"/>		
Redox Potential Eh (mV)	<input type="text" value="301"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

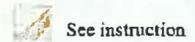
Comment

Arrived on site at 1530 Tanner and Garrin present to collect samples.
 Samples collected at 1535. Water was mostly clear
 Left site at 1540

TW4-19 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-20 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-20.08312015

Date and Time for Purging: 8/31/2015 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: MW-37

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/cm Well Depth(0.01ft): 106.00

Depth to Water Before Purging: 62.55 Casing Volume (V) 4" Well: 28.37 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 27°

Time	<u>1412</u>	Gal. Purged	<u>6</u>
Conductance	<u>4232</u>	pH	<u>6.31</u>
Temp. °C	<u>16.65</u>		
Redox Potential Eh (mV)	<u>214</u>		
Turbidity (NTU)	<u>6.4</u>		

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

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

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

9/11/15 0 3 - CH-QAP TW4-20-21-13 - ATTACH 1 - TEMPLATE (2460) - REVISED 6/28/2015 2:11 PM FROM BRACOR0002

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

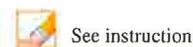
 See instruction

Comment

Arrived on site at 1409 Tanner and Garrin present to collect samples.
 Samples collected at 1413 water was mostly clear, with some brown particles floating.
 Left site at 1416



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-21 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-21_08312015

Date and Time for Purging 8/31/2015 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 N/A

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 121.00

Depth to Water Before Purging 66.18 Casing Volume (V) 4" Well: 35.79 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1326</u>	Gal. Purged	<u>0</u>
Conductance	<u>4298</u>	pH	<u>6.56</u>
Temp. °C	<u>17.33</u>		
Redox Potential Eh (mV)	<u>394</u>		
Turbidity (NTU)	<u>11.9</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

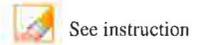
Comment

Arrived on site at 1323 Tanner and Garrin present to collect samples.
 Samples collected at 1327 water was mostly clear
 -cft site at 1330

TW4-21 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-ZZ Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-ZZ_08312015

Date and Time for Purging 8/31/2015 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 μ MHOS/ cm Well Depth(0.01ft): 113.50

Depth to Water Before Purging 57.68 Casing Volume (V) 4" Well: 36.45 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1358</u>	Gal. Purged	<u>0</u>
Conductance	<u>5752</u>	pH	<u>6.57</u>
Temp. °C	<u>16.29</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>11.2</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

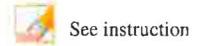
Comment

Arrived on site at 1354 Tanner and Garrin present to collect samples.
 Samples collected at 1359 Water was clear
 Left site at 1401

TW4-22 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-23 Sampler Name and initials: Tanner Holliday AH

Field Sample ID: TW4-23_09032015

Date and Time for Purging: 9/2/2015 and Sampling (if different): 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-35

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/cm Well Depth(0.01ft): 119.00

Depth to Water Before Purging: 68.60 Casing Volume (V) 4" Well: 29.64 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 16°

Time	<u>0940</u>	Gal. Purged	<u>55</u>
Conductance	<u>3578</u>	pH	<u>6.47</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>185</u>		
Turbidity (NTU)	<u>22</u>		

Time	<u>0941</u>	Gal. Purged	<u>66</u>
Conductance	<u>3575</u>	pH	<u>6.52</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>184</u>		
Turbidity (NTU)	<u>22</u>		

Time	<u>0942</u>	Gal. Purged	<u>77</u>
Conductance	<u>3575</u>	pH	<u>6.54</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>181</u>		
Turbidity (NTU)	<u>22</u>		

Time	<u>0943</u>	Gal. Purged	<u>88</u>
Conductance	<u>3575</u>	pH	<u>6.56</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>178</u>		
Turbidity (NTU)	<u>22</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

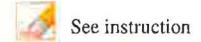
Comment

Arrived on site at 0931 Tanner and Garrin present for purge. Purge began at 0935
 Purged well for a total of 8 minutes, Purged ended at 0943
 water started out an orange color but slowly cleared throughout purge.
 Left site at 0946
 Arrived on site at 0811 Tanner and Garrin present to collect samples. Depth to water was 68.64 samples bailed at 0813 Left site at 0815

TW4-23 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-24 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_08312015

Date and Time for Purging: 8/31/2015 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: TW4-25

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: 62.00 Casing Volume (V) 4" Well: 32.97 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1347</u>	Gal. Purged	<u>0</u>
Conductance	<u>16.70</u> <u>5737</u>	pH	<u>6.45</u>
Temp. °C	<u>16.70</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>1.0</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

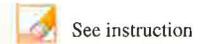
Comment

Arrived on site at 1345 Tanner and Garrin present to collect samples
 Samples collected at 1348 water was clear
 Left site at 1353

TW4-24 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-25 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID TW4-25_08312015

Date and Time for Purging 8/31/2015 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 μ MHOS/ cm Well Depth(0.01ft): 134.80

Depth to Water Before Purging 63.66 Casing Volume (V) 4" Well: 46.45 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1334</u>	Gal. Purged	<u>0</u>
Conductance	<u>2668</u>	pH	<u>6.84</u>
Temp. °C	<u>16.11</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>12.0</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

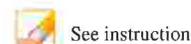
Comment

Arrived on site at 1332 Tanner and Garrin present to collect samples.
 Samples collected at 1335 Water was mostly clear
 Left site at 1339

TW4-25 08-31-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-26

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID TW4-26_09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-30

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 86.00

Depth to Water Before Purging 65.90

Casing Volume (V) 4" Well: 13.12 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy

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

Time	<u>1210</u>	Gal. Purged	<u>16.50</u>
Conductance	<u>6396</u>	pH	<u>4.05</u>
Temp. °C	<u>15.91</u>		
Redox Potential Eh (mV)	<u>427</u>		
Turbidity (NTU)	<u>33.7</u>	<u>33.70</u>	

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

Time	<u>0843</u>	Gal. Purged	<u>0</u>
Conductance	<u>6324</u>	pH	<u>4.54</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0845</u>	Gal. Purged	<u>0</u>
Conductance	<u>6350</u>	pH	<u>4.53</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

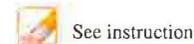
Arrived on site at 1207. Tanner and Garrin present for purge. Purge began at 1209 Purged well for a total of 1 minute 30 seconds. Purged well dry. Purge ended at 1210 water was murky. Left site at 1213

Arrived on site at 0841 Tanner and Garrin present to collect samples. Depth to Water was 66.00 samples bailed at 0844 Left site at 0847

TW4-26 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-27 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-27_09022015

Date and Time for Purging 9/1/2015 and Sampling (if different) 9/2/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-36

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 79.98

Casing Volume (V) 4" Well: 10.46 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1323</u>	Gal. Purged	<u>11</u>
Conductance	<u>5185</u>	pH	<u>6.26</u>
Temp. °C	<u>16.30</u>		
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>50</u>		

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

Time	<u>0749</u>	Gal. Purged	<u>0</u>
Conductance	<u>5038</u>	pH	<u>6.86</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0751</u>	Gal. Purged	<u>0</u>
Conductance	<u>5651</u>	pH	<u>6.82</u>
Temp. °C	<u>14.62</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After.

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1319 Tanner and Garrin present for purge. Purge began at 1322 Purged well for a total of 1 minute. Purged well dry! Purge ended at 1323 Water was a little murky. Left site at 1326

Arrived on site at 0747 Tanner and Garrin present to collect samples. Depth to water was 80.40 samples bailed at 0750 Left site at 0753

TW4-27 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-28_09022015

Date and Time for Purging 9/1/2015

and Sampling (if different) 9/2/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-12

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/cm

Well Depth(0.01ft): 107.00

Depth to Water Before Purging 39.40

Casing Volume (V) 4" Well: 44.14 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>0930</u>	Gal. Purged	<u>71.50</u>
Conductance	<u>1233</u>	pH	<u>7.09</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>30</u>		

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

Time	<u>0724</u>	Gal. Purged	<u>0</u>
Conductance	<u>1242</u>	pH	<u>7.09</u>
Temp. °C	<u>14.42</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0726</u>	Gal. Purged	<u>0</u>
Conductance	<u>1243</u>	pH	<u>7.09</u>
Temp. °C	<u>14.47</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

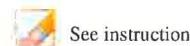
 See instruction

Comment

Arrived on site at 0920 Tanner and Garrin present for purge. Purge began at 0923
 Purged well for a total of 6 minutes and 30 seconds Purged well dry! Purge ended at
 0930 Water was mostly clear. Left site at 0932
 Arrived on site at 0722 Tanner and Garrin present to collect samples Depth to water was 39.41
 Samples bailed at 0725 Left site at 0727



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-29

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-29_09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-33

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 93.50

Depth to Water Before Purging 73.18

Casing Volume (V) 4" Well: 13.26 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy

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

Time	<u>1545</u>	Gal. Purged	<u>16.50</u>
Conductance	<u>4157</u>	pH	<u>6.75</u>
Temp. °C	<u>16.18</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>38</u>		

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

Time	<u>0932</u>	Gal. Purged	<u>0</u>
Conductance	<u>4145</u>	pH	<u>6.82</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0934</u>	Gal. Purged	<u>0</u>
Conductance	<u>4142</u>	pH	<u>6.83</u>
Temp. °C	<u>15.12</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

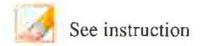
Arrived on site at 1541. Tanner and Garrin present for purge. Purge began at 1544 Purged well for a total of 1 minute 30 seconds. Purged well dry! Purge ended at 1545 Water was mostly clear. Left site at 1548

Arrived on site at 0929 Tanner and Garrin present to collect samples. Depth to water was 73.30 Samples bailed at 0933 Left site at 0936

TW4-29 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-30 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-30_09032015

Date and Time for Purging: 9/2/2015 and Sampling (if different): 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-14

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/ cm Well Depth(0.01ft): 92.50

Depth to Water Before Purging: 76.20 Casing Volume (V) 4" Well: 10.64 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1037</u>	Gal. Purged	<u>14.66</u>
Conductance	<u>4233</u>	pH	<u>5.26</u>
Temp. °C	<u>15.94</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>37</u>		

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

Time	<u>0833</u>	Gal. Purged	<u>0</u>
Conductance	<u>4390</u>	pH	<u>6.43</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0835</u>	Gal. Purged	<u>0</u>
Conductance	<u>4388</u>	pH	<u>6.40</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

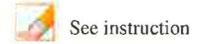
Arrived on site at 1032 Tanner and Garrin present for purge. Purge began at 1035 Purged well for a total of 1 minute 20 seconds. Purged well dry. Purge ended at 1037 water was a little murky. Left site at 1040

Arrived on site at 0831 Tanner and Garrin present to collect samples. Depth to water was 76.21 samples bailed at 0834 left site at 0837

TW4-30 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-31 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-31_09022015

Date and Time for Purging 9/1/2015 and Sampling (if different) 9/2/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-27

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 106.00

Depth to Water Before Purging 80.40 Casing Volume (V) 4" Well: 16.71 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1401</u>	Gal. Purged	<u>19.25</u>
Conductance	<u>4685</u>	pH	<u>6.65</u>
Temp. °C	<u>16.20</u>		
Redox Potential Eh (mV)	<u>379</u>		
Turbidity (NTU)	<u>120</u>		

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

Time	<u>0756</u>	Gal. Purged	<u>0</u>
Conductance	<u>4733</u>	pH	<u>6.77</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0758</u>	Gal. Purged	<u>0</u>
Conductance	<u>4735</u>	pH	<u>6.75</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

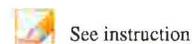
Arrived on site at 1356 Tanner and Garrin present for purge. Purge began at 1359 Purged well for a total of 1 minute 45 seconds. Purged well dry. Purge ended at 1401. Water was a murky white color. Left site at 1404

Arrived on site at 0754 Tanner and Garrin Present to collect samples. Depth to water was 80.50 samples bailed at 0757 Left site at 0759

TW4-31 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-32 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-32-09022015

Date and Time for Purging 9/1/2015 and Sampling (if different) 9/2/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-28

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 115.10

Depth to Water Before Purging 50.90 Casing Volume (V) 4" Well: 41.92 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 18°

Time	<u>1004</u>	Gal. Purged	<u>55</u>
Conductance	<u>7389</u>	pH	<u>3.65</u>
Temp. °C	<u>14.86</u>		
Redox Potential Eh (mV)	<u>487</u>		
Turbidity (NTU)	<u>25</u>		

Time	<u>1005</u>	Gal. Purged	<u>66</u>
Conductance	<u>7409</u>	pH	<u>3.65</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>488</u>		
Turbidity (NTU)	<u>25</u>		

Time	<u>1006</u>	Gal. Purged	<u>71</u>
Conductance	<u>7403</u>	pH	<u>3.65</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>488</u>		
Turbidity (NTU)	<u>25</u>		

Time	<u>1007</u>	Gal. Purged	<u>88</u>
Conductance	<u>7405</u>	pH	<u>3.65</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>488</u>		
Turbidity (NTU)	<u>25</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

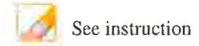
Arrived on site at 0956 Tanner and Garrin present for purge. Purge began at 0959
 Purged well for a total of 8 minutes Purge ended at 1007. water was mostly clear.
 Left site at 1010

Arrived on site at 0728 Tanner and Garrin present to collect samples. Depth to water was
 50.80 Samples bailed at 0730 Left site at 0732

TW4-32 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-33

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-33_09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-16

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm

Well Depth(0.01ft): 87.90

Depth to Water Before Purging 71.95

Casing Volume (V) 4" Well: 10.41 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	<u>1511</u>	Gal. Purged	<u>11</u>
Conductance	<u>4446</u>	pH	<u>6.75</u>
Temp. °C	<u>16.61</u>		
Redox Potential Eh (mV)	<u>297</u>		
Turbidity (NTU)	<u>43</u>		

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

Time	<u>0924</u>	Gal. Purged	<u>0</u>
Conductance	<u>4410</u>	pH	<u>6.10</u>
Temp. °C	<u>15.37</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0926</u>	Gal. Purged	<u>0</u>
Conductance	<u>4428</u>	pH	<u>6.16</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

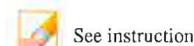
Arrived on site at 1507 Tanner and Garrin present for purge. Purge began at 1510 Purged well for a total of 1 minute. Purged well dry. Purge ended at 1511 water was a little murky. Left site at 1514

Arrived on site at 0922 Tanner and Garrin present to collect samples. Depth to Water was 72.00 samples bailed at 0925 Left site at 0928

TW4-33 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-34

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-34_09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-31

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm

Well Depth(0.01ft): 97.20

Depth to Water Before Purging 71.28

Casing Volume (V) 4" Well: 16.92 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 14°

Time	<u>0841</u>	Gal. Purged	<u>27.50</u>
Conductance	<u>3796</u>	pH	<u>6.75</u>
Temp. °C	<u>15.18</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>14.9</u>		

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

Time	<u>0753</u>	Gal. Purged	<u>0</u>
Conductance	<u>3798</u>	pH	<u>7.23</u>
Temp. °C	<u>15.97</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0755</u>	Gal. Purged	<u>0</u>
Conductance	<u>3801</u>	pH	<u>7.20</u>
Temp. °C	<u>16.01</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

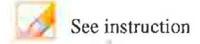
Arrived on site at 0836 Tanner and Garrin present for purge. Purge began at 0839 Purged well for a total of 2 minutes and 30 seconds. Purged well dry. Purge ended at 0841. Water was mostly clear. Left site at 0844

Arrived on site at 0751 Tanner and Garrin present to collect samples. Depth to water was 71.24 samples bailed at 0754. Left site at 0757

TW4-34 09-02-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-35 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-35_09032015

Date and Time for Purging 9/2/2015 and Sampling (if different) 9/3/2015

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

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly 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): 87.50

Depth to Water Before Purging 74.16 Casing Volume (V) 4" Well: 8.71 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>0909</u>	Gal. Purged	<u>11</u>
Conductance	<u>4347</u>	pH	<u>6.61</u>
Temp. °C	<u>15.89</u>		
Redox Potential Eh (mV)	<u>234</u>		
Turbidity (NTU)	<u>11.5</u>		

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

Time	<u>0802</u>	Gal. Purged	<u>0</u>
Conductance	<u>4275</u>	pH	<u>6.69</u>
Temp. °C	<u>15.26</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0804</u>	Gal. Purged	<u>0</u>
Conductance	<u>4289</u>	pH	<u>6.68</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0905 Tanner and Garrin present for purge. Purge began at 0908
 Purged well for a total of 1 minute. Purged well dry! Purge ended at 0909, water was clear.
 Left site at 0911

Arrived on site at 0759 Tanner and Garrin present to collect samples. Depth to water was 74.11
 Samples bailed at 0803 Left site at 0806

TW4-35 09-02-2015 Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-36

Sampler Name and initials: Tanner Holiday/TH

Field Sample ID TW4-36_09022015

Date and Time for Purging 9/1/2015

and Sampling (if different) 9/2/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-13

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/cm

Well Depth(0.01ft): 99.00

Depth to Water Before Purging 56.60

Casing Volume (V) 4" Well: 27.68 (.653h) 73.32
3" Well: 0 (.367h) 55.36

Weather Cond. Sunny

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

Time	<u>1254</u>	Gal. Purged	<u>36.66</u>
Conductance	<u>2465</u>	pH	<u>6.70</u>
Temp. °C	<u>15.77</u>		
Redox Potential Eh (mV)	<u>134</u>		
Turbidity (NTU)	<u>94</u>		

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

Time	<u>0742</u>	Gal. Purged	<u>0</u>
Conductance	<u>2290</u>	pH	<u>7.02</u>
Temp. °C	<u>14.47</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0744</u>	Gal. Purged	<u>0</u>
Conductance	<u>2301</u>	pH	<u>7.00</u>
Temp. °C	<u>14.47</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

06-06-12 Rev. 7.2 - Errata / Template (2015) / Printed 6/27/2015 1:03 PM from 19102000002

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1247 Tanner and Garrin present to purge well. Purge began at 1251 Purged well for a total of 3 minutes and 20 seconds. Purged well dry! Purge ended at 1254. water was murky. Left site at 1257

Arrived on site at 0740 Tanner and Garrin present to collect samples Depth to water was 57.39 samples bailed at 0743 Left site at 0745

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-37

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-37_08312015

Date and Time for Purging 8/31/2015

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 TW4-22

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 112.00

Depth to Water Before Purging 61.00

Casing Volume (V) 4" Well: 33.30 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1404</u>	Gal. Purged	<u>0</u>
Conductance	<u>4678</u>	pH	<u>6.83</u>
Temp. °C	<u>16.42</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>7.5</u>		

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

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

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

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

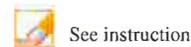
See instruction

Comment

Arrived on site at 1402 Turner and Garrin present to collect samples.
 Samples collected at 1405 water was clear
 Left site at 1408



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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-60_09102015

Date and Time for Purging 9/10/2015

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 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Weather Cond. Sunny

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

Time	<u>0744</u>	Gal. Purged	<u>6</u>
Conductance	<u>2276</u> <u>0.8</u>	pH	<u>7.50</u>
Temp. °C	<u>22.76</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>0.5</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

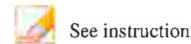
Comment

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



Description of Sampling Event: 3rd Quarter Chloroform 2015

Location (well name): TW4-65

Sampler Name and initials: Tanner Holliday ATH

Field Sample ID TW4-65_09022015

Date and Time for Purging 9/1/2015

and Sampling (if different) 9/2/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-03

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 101.50

Depth to Water Before Purging 45.31

Casing Volume (V) 4" Well: 36.69 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

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

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

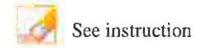
Comment

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TW4-65 09-01-2015 Do not touch this cell (SheetName)



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



Description of Sampling Event: 3rd Quarter chloroform 2015

Location (well name): TW4-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-70-09032015

Date and Time for Purging 9/2/2015

and Sampling (if different) 9/3/2015

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chloroform

Prev. Well Sampled in Sampling Event TW4-35

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging 68.60

Casing Volume (V) 4" Well: 29.64 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 16°

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

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

Duplicate of TW4-23

TW4-70 09-02-2015 Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

Weekly Inspection Form

Date 7/7/15

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1502	MW-4	65.08	Flow 4.6 GPM Meter 689757.90	(Yes) No (Yes) No
1449	MW-26	63.40	Flow 9.6 GPM Meter 16496.10	(Yes) No (Yes) No
1049	TW4-19	66.48	Flow 18.2 GPM Meter 43007.00	(Yes) No (Yes) No
1444	TW4-20	66.45	Flow 8.6 GPM Meter 81336.16	(Yes) No (Yes) No
1514	TW4-4	72.60	Flow 10.6 GPM Meter 134731.80	(Yes) No (Yes) No
1431	TWN-2	27.64	Flow 18.0 GPM Meter 470526.90	(Yes) No (Yes) No
1438	TW4-22	59.05	Flow 17.8 GPM Meter 237289.40	(Yes) No (Yes) No
1436	TW4-24	62.32	Flow 17.8 GPM Meter 1858713.70	(Yes) No (Yes) No
1427	TW4-25	62.28	Flow 15.8 GPM Meter 1174161.30	(Yes) No (Yes) No
1310	TW4-1	72.30	Flow 16.0 GPM Meter 50417.20	(Yes) No (Yes) No
1458	TW4-2	71.29	Flow 17.0 GPM Meter 47827.00	(Yes) No (Yes) No
1456	TW4-11	91.29	Flow 16.3 GPM Meter 15508.40	(Yes) No (Yes) No
1423	TW4-21	69.49	Flow 16.1 GPM Meter 40576.82	(Yes) No (Yes) No
1441	TW4-37	61.68	Flow 17.6 GPM Meter 38512.40	(Yes) No (Yes) No

Operational Problems (Please list well number):

MW-4 timer settings were erased.

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

Reset timer settings on MW-04

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/13/15

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1429	MW-4	73.42	Flow 4.6 GPM Meter 696192.54	(Yes) No (Yes) No
1421	MW-26	64.25	Flow 9.2 GPM Meter 17971.70	(Yes) No (Yes) No
1335	TW4-19	63.15	Flow 18.0 GPM Meter 50804.50	(Yes) No (Yes) No
1418	TW4-20	61.80	Flow 9.0 GPM Meter 82505.64	(Yes) No (Yes) No
1434	TW4-4	72.62	Flow 10.6 GPM Meter 138920.70	(Yes) No (Yes) No
1405	TWN-2	27.95	Flow 18.5 GPM Meter 473771.20	(Yes) No (Yes) No
1413	TW4-22	69.00	Flow 17.4 GPM Meter 238892.20	(Yes) No (Yes) No
1410	TW4-24	62.82	Flow 17.8 GPM Meter 1863171.30	(Yes) No (Yes) No
1402	TW4-25	62.70	Flow 15.6 GPM Meter 1182455.20	(Yes) No (Yes) No
1432	TW4-1	77.91	Flow 17.4 GPM Meter 52009.30	(Yes) No (Yes) No
1427	TW4-2	72.40	Flow 17.2 GPM Meter 49311.60	(Yes) No (Yes) No
1425	TW4-11	91.80	Flow 16.2 GPM Meter 15897.60	(Yes) No (Yes) No
1339	TW4-21	65.38	Flow 16.0 GPM Meter 48510.06	(Yes) No (Yes) No
1416	TW4-37	67.09	Flow 17.6 GPM Meter 46427.20	(Yes) No (Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 7-14-2015

Name Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>1051</u>	<u>MW-4</u>	<u>71.69</u>	<u>1005</u>	<u>TWN-1</u>	<u>61.34</u>
<u>1049</u>	<u>TW4-1</u>	<u>77.90</u>	<u>0958</u>	<u>TWN-2</u>	<u>28.05</u>
<u>1054</u>	<u>TW4-2</u>	<u>72.45</u>	<u>1013</u>	<u>TWN-3</u>	<u>28.05 38.38</u>
<u>1047 1229</u>	<u>TW4-3</u>	<u>55.69</u>	<u>1016</u>	<u>TWN-4</u>	<u>53.86</u>
<u>1047</u>	<u>TW4-4</u>	<u>70.69</u>	<u>1026</u>	<u>TWN-7</u>	<u>85.72</u>
<u>1225</u>	<u>TW4-5</u>	<u>63.40</u>	<u>1019</u>	<u>TWN-18</u>	<u>60.00</u>
<u>1045</u>	<u>TW4-6</u>	<u>71.09</u>	<u>1022</u>	<u>MW-27</u>	<u>53.81</u>
<u>1100</u>	<u>TW4-7</u>	<u>69.86</u>	<u>1031</u>	<u>MW-30</u>	<u>75.49</u>
<u>1103</u>	<u>TW4-8</u>	<u>72.16</u>	<u>1035</u>	<u>MW-31</u>	<u>68.52</u>
<u>1227</u>	<u>TW4-9</u>	<u>61.27</u>			
<u>1223</u>	<u>TW4-10</u>	<u>60.96</u>			
<u>1106</u>	<u>TW4-11</u>	<u>92.02</u>			
<u>1250</u>	<u>TW4-12</u>	<u>45.05</u>			
<u>1255</u>	<u>TW4-13</u>	<u>50.85</u>	<u>1251</u>	<u>TW4-28</u>	<u>39.20</u>
<u>1258</u>	<u>TW4-14</u>	<u>81.20</u>	<u>1240</u>	<u>TW4-29</u>	<u>73.11</u>
<u>1112</u>	<u>TW4-15</u>	<u>67.35</u>	<u>1246</u>	<u>TW4-30</u>	<u>76.26</u>
<u>1109</u>	<u>TW4-16</u>	<u>63.44</u>	<u>1247</u>	<u>TW4-31</u>	<u>80.62</u>
<u>1038</u>	<u>TW4-17</u>	<u>76.97</u>	<u>1253</u>	<u>TW4-32</u>	<u>56.72</u>
<u>1008</u>	<u>TW4-18</u>	<u>64.25</u>	<u>1236</u>	<u>TW4-33</u>	<u>71.75</u>
<u>0950</u>	<u>TW4-19</u>	<u>64.01</u>	<u>1242</u>	<u>TW4-34</u>	<u>71.10</u>
<u>1115</u>	<u>TW4-20</u>	<u>63.35</u>	<u>1244</u>	<u>TW4-35</u>	<u>74.15</u>
<u>1010</u>	<u>TW4-21</u>	<u>65.40</u>	<u>1256</u>	<u>TW4-36</u>	<u>56.56</u>
<u>1116</u>	<u>TW4-22</u>	<u>69.11</u>	<u>1114</u>	<u>TW4-37</u>	<u>63.54</u>
<u>1040</u>	<u>TW4-23</u>	<u>68.31</u>			
<u>1119</u>	<u>TW4-24</u>	<u>63.95</u>			
<u>1002</u>	<u>TW4-25</u>	<u>64.05</u>			
<u>1043</u>	<u>TW4-26</u>	<u>65.65</u>			
<u>1238</u>	<u>TW4-27</u>	<u>80.02</u>			

6.3 388918
8.07 42300
5284911

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 7/20/15

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1311	MW-4	80.95	Flow 4.7 GPM Meter 703509.42	(Yes) No (Yes) No
1302	MW-26	83.42	Flow 8.2 GPM Meter 19530.10	(Yes) No (Yes) No
1208	TW4-19	62.60	Flow 18.5 GPM Meter 59654.60	(Yes) No (Yes) No
1300	TW4-20	62.28	Flow 8.4 GPM Meter 83970.66	(Yes) No (Yes) No
1317	TW4-4	73.88	Flow 10.0 GPM Meter 143910.20	(Yes) No (Yes) No
1248	TWN-2	27.75	Flow 18.0 GPM Meter 477477.5	(Yes) No (Yes) No
1253	TW4-22	58.05	Flow 17.2 GPM Meter 240629.20	(Yes) No (Yes) No
1251	TW4-24	62.80	Flow 18.0 GPM Meter 1868103.00	(Yes) No (Yes) No
1244	TW4-25	66.43	Flow 15.4 GPM Meter 1192085.60	(Yes) No (Yes) No
1314	TW4-1	89.77	Flow 16.4 GPM Meter 53849.70	(Yes) No (Yes) No
1308	TW4-2	76.40	Flow 16.6 GPM Meter 51036.20	(Yes) No (Yes) No
1306	TW4-11	92.73	Flow 16.1 GPM Meter 16145.70	(Yes) No (Yes) No
1240	TW4-21	65.85	Flow 16.2 GPM Meter 58188.93	(Yes) No (Yes) No
1257	TW4-37	60.90	Flow 17.0 GPM Meter 55347.30	(Yes) No (Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 7/27/15

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1440	MW-4	75.84	Flow 4.6 GPM Meter 711161.85	(Yes) No (Yes) No
1431	MW-26	63.65	Flow 9.0 GPM Meter 21272.80	(Yes) No (Yes) No
1348	TW4-19	62.95	Flow 18.4 GPM Meter 68611.20	(Yes) No (Yes) No
1429	TW4-20	75.45	Flow 8.0 GPM Meter 85374.60	(Yes) No (Yes) No
1446	TW4-4	73.10	Flow 10.6 GPM Meter 148992.80	(Yes) No (Yes) No
1415	TWN-2	27.00	Flow 18.6 GPM Meter 481187.60	(Yes) No (Yes) No
1425	TW4-22	61.39	Flow 17.0 GPM Meter 242514.60	(Yes) No (Yes) No
1420	TW4-24	62.27	Flow 17.8 GPM Meter 1873234.60	(Yes) No (Yes) No
1412	TW4-25	62.58	Flow 16.0 GPM Meter 1201675.50	(Yes) No (Yes) No
1443	TW4-1	73.91	Flow 17.0 GPM Meter 55701.40	(Yes) No (Yes) No
1437	TW4-2	73.96	Flow 16.4 GPM Meter 52738.70	(Yes) No (Yes) No
1433	TW4-11	91.61	Flow 16.4 GPM Meter 16590.60	(Yes) No (Yes) No
1408	TW4-21	65.45	Flow 16.0 GPM Meter 67620.92	(Yes) No (Yes) No
1427	TW4-37	63.15	Flow 17.0 GPM Meter 64652.30	(Yes) No (Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/3/2015

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1336	MW-4	78.60	Flow 4.6 GPM Meter 718597.01	(Yes) No (Yes) No
1328	MW-26	69.84	Flow 9.8 GPM Meter 22884.20	(Yes) No (Yes) No
1412	TW4-19	63.00	Flow 18.2 Meter 77511.05	(Yes) No (Yes) No
1326	TW4-20	62.59	Flow 8.2 GPM Meter 86609.70	(Yes) No (Yes) No
1347	TW4-4	73.10	Flow 10.3 GPM Meter 73.10 153844.50	(Yes) No (Yes) No
1312	TWN-2	27.35	Flow 18.5 GPM Meter 484806.60	(Yes) No (Yes) No
1320	TW4-22	57.90	Flow 17.4 GPM Meter 944454.80	(Yes) No (Yes) No
1316	TW4-24	62.34	Flow 18.0 GPM Meter 1878368.70	(Yes) No (Yes) No
1308	TW4-25	64.32	Flow 15.3 GPM Meter 1211118.60	(Yes) No (Yes) No
1339	TW4-1	82.94	Flow 17.0 GPM Meter 57545.30	(Yes) No (Yes) No
1335	TW4-2	75.65	Flow 16.0 GPM Meter 54490.30	(Yes) No (Yes) No
1333	TW4-11	92.50	Flow 16.0 GPM Meter 16826.20	(Yes) No (Yes) No
1304	TW4-21	65.95	Flow 15.6 GPM Meter 77268.93	(Yes) No (Yes) No
1323	TW4-37	60.92	Flow 17.4 GPM Meter 73313.40	(Yes) No (Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/10/15

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1419	MW-4	71.61	Flow 4.6 GPM Meter 725763.66	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1503	MW-26	63.60	Flow 9.6 GPM Meter 24478.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1330	TW4-19	63.55	Flow 18.0 GPM Meter 86374.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1500	TW4-20	64.12	Flow 8.6 GPM Meter 88096.96	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1415	TW4-4	73.42	Flow 10.2 GPM Meter 158793.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1521	TWN-2	29.15	Flow 18.4 GPM Meter 488675.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1454	TW4-22	58.39	Flow 17.1 GPM Meter 246358.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1452	TW4-24	62.35	Flow 18.0 GPM Meter 1883453.80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1518	TW4-25	84.85	Flow 15.0 GPM Meter 1220897.30	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1417	TW4-1	84.20	Flow 17.0 GPM Meter 59486.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1418	TW4-2	75.45	Flow 16.8 GPM Meter 56021.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1421	TW4-11	92.97	Flow 16.9 GPM Meter 16838.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1515	TW4-21	66.30	Flow 16.2 GPM Meter 86855.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>
1457	TW4-37	61.88	Flow 16.8 GPM Meter 82570.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 8/12/15

Name Garrin Palmer

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>1248</u>	MW-4	<u>70.88</u>	<u>1511</u>	TWN-1	<u>61.65</u>
<u>1247</u>	TW4-1	<u>82.84</u>	<u>1509</u>	TWN-2	<u>29.66</u>
<u>1246</u>	TW4-2	<u>76.60</u>	<u>1448</u>	TWN-3	<u>38.39</u>
<u>1524</u>	TW4-3	<u>56.02</u>	<u>1454</u>	TWN-4	<u>54.30</u>
<u>1251</u>	TW4-4	<u>71.00</u>	<u>1506</u>	TWN-7	<u>85.70</u>
<u>1520</u>	TW4-5	<u>63.74</u>	<u>1514</u>	TWN-18	<u>64.60</u>
<u>1441</u>	TW4-6	<u>71.40</u>	<u>1540</u>	MW-27	<u>54.12</u>
<u>1249</u>	TW4-7	<u>73.70</u>	<u>1536</u>	MW-30	<u>75.71</u>
<u>1307</u>	TW4-8	<u>74.70</u>	<u>1534</u>	MW-31	<u>68.68</u>
<u>1522</u>	TW4-9	<u>61.60</u>			
<u>1526</u>	TW4-10	<u>61.25</u>			
<u>1245</u>	TW4-11	<u>93.28</u>			
<u>1340</u>	TW4-12	<u>45.35</u>			
<u>1337</u>	TW4-13	<u>51.50</u>	<u>1342</u>	TW4-28	<u>39.41</u>
<u>1333</u>	TW4-14	<u>81.21</u>	<u>1322</u>	TW4-29	<u>73.40</u>
<u>1243</u>	TW4-15	<u>64.20</u>	<u>1328</u>	TW4-30	<u>76.44</u>
<u>1530</u>	TW4-16	<u>63.65</u>	<u>1330</u>	TW4-31	<u>80.70</u>
<u>1532</u>	TW4-17	<u>77.18</u>	<u>1344</u>	TW4-32	<u>51.05</u>
<u>1451</u>	TW4-18	<u>60.24</u>	<u>1317</u>	TW4-33	<u>72.04</u>
<u>1200</u>	TW4-19	<u>63.86</u>	<u>1323</u>	TW4-34	<u>71.40</u>
<u>1242</u>	TW4-20	<u>64.01</u>	<u>1326</u>	TW4-35	<u>74.31</u>
<u>1530</u>	TW4-21	<u>67.02</u>	<u>1335</u>	TW4-36	<u>56.80</u>
<u>1235</u>	TW4-22	<u>60.22</u>	<u>1239</u>	TW4-37	<u>63.20</u>
<u>1437</u>	TW4-23	<u>68.65</u>			
<u>1237</u>	TW4-24	<u>61.98</u>			
<u>1238</u>	TW4-25	<u>78.89</u>			
<u>1439</u>	TW4-26	<u>65.95</u>			
<u>1320</u>	TW4-27	<u>80.16</u>			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 8/17/2015

Name Tanner Holliday

**System Operational (If no note
any problems/corrective actions)**

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0826	MW-4	72.89	Flow 4.6 GPM Meter 732781.52	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0806	MW-26	67.35	Flow 9.4 GPM Meter 25941.3	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0725	TW4-19	63.49	Flow 18.0 GPM Meter 94847.5	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0802	TW4-20	64.03	Flow 8.6 8.6 GPM Meter 89277.9	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0835	TW4-4	72.39	Flow 10.1 Meter 163415.5	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0744	TWN-2	28.20	Flow 18.4 Meter 492274.4	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0754	TW4-22	57.95	Flow 18.0 Meter 248042.8	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0750	TW4-24	69.11	Flow 18.0 Meter 1888226.1	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0740	TW4-25	66.83	Flow 15.1 Meter 1229752.0	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0829 0831	TW4-1	83.21	Flow 17.0 Meter 61137.0	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0821	TW4-2	75.61	Flow 16.8 Meter 57690.4	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0817	TW4-11	92.21	Flow 16.5 Meter 16838.4	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0735	TW4-21	66.02	Flow 16.0 Meter 95878.99	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
0758	TW4-37	60.95	Flow 17.0 Meter 91100.2	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/24/15

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1315	MW-4	80.95	Flow 4.7 GPM Meter 740412.00	(Yes) No (Yes) No
1305	MW-26	83.15	Flow 8.0 GPM Meter 27695.30	(Yes) No (Yes) No
1342	TW4-19	65.20	Flow 18.0 GPM Meter 103981.11	(Yes) No (Yes) No
1303	TW4-20	62.85	Flow 8.6 GPM Meter 90766.74	(Yes) No (Yes) No
1321	TW4-4	70.86	Flow 10.4 GPM Meter 168581.00	(Yes) No (Yes) No
1252	TWN-2	27.96	Flow 18.8 GPM Meter 495907.40	(Yes) No (Yes) No
1257	TW4-22	58.00	Flow 17.0 GPM Meter 249829.40	(Yes) No (Yes) No
1255	TW4-24	62.95	Flow 18.0 GPM Meter 1893456.50	(Yes) No (Yes) No
1238	TW4-25	68.05	Flow 15.4 GPM Meter 1239467.10	(Yes) No (Yes) No
1318	TW4-1	95.61	Flow 16.3 GPM Meter 63001.80	(Yes) No (Yes) No
1313	TW4-2	80.04	Flow 16.8 GPM Meter 59254.50	(Yes) No (Yes) No
1308	TW4-11	70.10	Flow 17.0 GPM Meter 16839.70	(Yes) No (Yes) No
1235	TW4-21	16.20 67.68	Flow 16.2 GPM Meter 105721.31	(Yes) No (Yes) No
1300	TW4-37	61.38	Flow 17.0 GPM Meter 100214.00	(Yes) No (Yes) No

Operational Problems (Please list well number): The timer on TW4-11 lost memory and pump settings were erased.

Corrective Action(s) Taken (Please list well number): Reset timer on TW4-11. Well is operational.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 8/31/15

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1455	MW-4	81.00	Flow 4.6 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 747995.17	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1420	MW-26	64.50	Flow 8.2 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 29269.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1535	TW4-19	62.95	Flow 18.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 112866.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1413	TW4-20	62.55	Flow 8.6 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 92005.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1510	TW4-4	72.10	Flow 10.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 173322.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1340	TWN-2	27.80	Flow 18.5 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 499747.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1354	TW4-22	57.68	Flow 17.2 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 251899.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1348	TW4-24	62.00	Flow 17.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1898597.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1335	TW4-25	63.66	Flow 15.2 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1248733.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1502	TW4-1	80.50	Flow 16.6 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 64871.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1437	TW4-2	76.40	Flow 16.5 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 60951.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1428	TW4-11	69.40	Flow 17.0 GPM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Meter 16858.60	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1325	TW4-21	66.18	Flow 16.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 115246.89	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1405	TW4-37	61.00	Flow 17.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 109128.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number):

are no good.

Internal Batteries on TW4-11

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

Replaced batteries and well is working.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/8/15

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1254	MW-4	77.65	Flow 4.6 GPM Meter 756360.41	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1243	MW-26	62.40	Flow 8.1 Meter 30988.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1315	TW4-19	63.21	Flow 18.0 GPM Meter 123066.50	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1238	TW4-20	63.20	Flow 8.8 GPM Meter 93509.64	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1300	TW4-4	69.94	Flow 10.6 GPM Meter 178806.90	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1228	TWN-2	30.10	Flow 18.5 GPM Meter 503979.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1234	TW4-22	57.82	Flow 17.4 GPM Meter 253924.90	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1232	TW4-24	62.04	Flow 18.0 GPM Meter 1904349.80	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1219	TW4-25	84.17	Flow 15.0 GPM Meter 1259442.70	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1257	TW4-1	104.60	Flow 16.0 GPM Meter 66894.50	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1250	TW4-2	92.61	Flow 16.4 GPM Meter 62711.10	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1245	TW4-11	88.97	Flow 16.2 GPM Meter 17424.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1216	TW4-21	66.65	Flow 16.4 GPM Meter 126155.84	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
1236	TW4-37	61.60	Flow 17.0 GPM Meter 119211.10	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/14/15

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1347	MW-4	79.38	Flow 4.4 GPM Meter 762751.05	(Yes) No (Yes) No
1338	MW-26	67.69	Flow 8.0 GPM Meter 32224.40	(Yes) No (Yes) No
1305	TW4-19	69.88	Flow 17.2 GPM Meter 130670.30	(Yes) No (Yes) No
1335	TW4-20	62.65 62.65	Flow 8.2 GPM Meter 94628.58	(Yes) No (Yes) No
1353	TW4-4	71.81	Flow 10.6 GPM Meter 183021.80	(Yes) No (Yes) No
1320	TWN-2	39.68	Flow 18.0 GPM Meter 507004.60	(Yes) No (Yes) No
1333	TW4-22	57.47	Flow 17.6 GPM Meter 255627.90	(Yes) No (Yes) No
1328	TW4-24	62.00	Flow 17.6 GPM Meter 1908744.70	(Yes) No (Yes) No
1316	TW4-25	63.98	Flow 15.6 GPM Meter 1267485.40	(Yes) No (Yes) No
1350	TW4-1	99.97	Flow 16.0 GPM Meter 68385.00	(Yes) No (Yes) No
1344	TW4-2	77.70	Flow 16.2 GPM Meter 64162.20	(Yes) No (Yes) No
1341	TW4-11	89.00	Flow 17.0 GPM Meter 17831.70	(Yes) No (Yes) No
1313	TW4-21	66.20	Flow 16.6 GPM Meter 134306.81	(Yes) No (Yes) No
1336	TW4-37	61.09	Flow 17.4 GPM Meter 126844.70	(Yes) No (Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 9/21/15

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1411	MW-4	78.95	Flow 4.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 7769426.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1400	MW-26	65.20	Flow 8.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 33860.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1443	TW4-19	63.72	Flow 18.1 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 139436.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1355	TW4-20	62.62	Flow 8.5 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 95921.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1417	TW4-4	82.88	Flow 10.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 187824.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1345	TWN-2	28.40	Flow 18.8 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 510796	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1354	TW4-22	57.52	Flow 17.8 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 257491.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1350	TW4-24	68.30	Flow 17.8 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1913866.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1336	TW4-25	63.53	Flow 15.6 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1276771.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1414	TW4-1	82.75	Flow 16.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 70009.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1409	TW4-2	77.35	Flow 16.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 65742.80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1403	TW4-11	89.64	Flow 16.6 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 18244.30	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1332	TW4-21	66.19	Flow 16.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 143812.57	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1357	TW4-37	61.07	Flow 17.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 135748.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

18708124.70

Weekly Inspection Form

Date 9/30/2015

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1415	MW-4	78.95	Flow 4.4 Meter 779272.34	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1404	MW-26	64.64	Flow 8.0 Meter 35778.7	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1436	TW4-19	63.23	Flow 18.0 Meter 150856.7	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1400	TW4-20	62.75	Flow 8.3 Meter 97558.08	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1424	TW4-4	72.14	Flow 10.5 Meter 793961.7	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1344	TWN-2	2880	Flow 18.1 Meter 515427.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1353	TW4-22	57.76	Flow 17.6 Meter 259887.8	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1350	TW4-24	65.22	Flow 18.0 Meter 1920206.6	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1341	TW4-25	63.51	Flow 15.5 Meter 1288561.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1419	TW4-1	82.73	Flow 16.0 Meter 72211.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1412	TW4-2	77.60	Flow 16.1 Meter 67773.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1409	TW4-11	40.35	Flow 16.50 Meter 18726.4	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1337	TW4-21	66.30	Flow 16.50 Meter 156029.09	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1356	TW4-37	61.18	Flow 17.5 Meter 147269.9	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

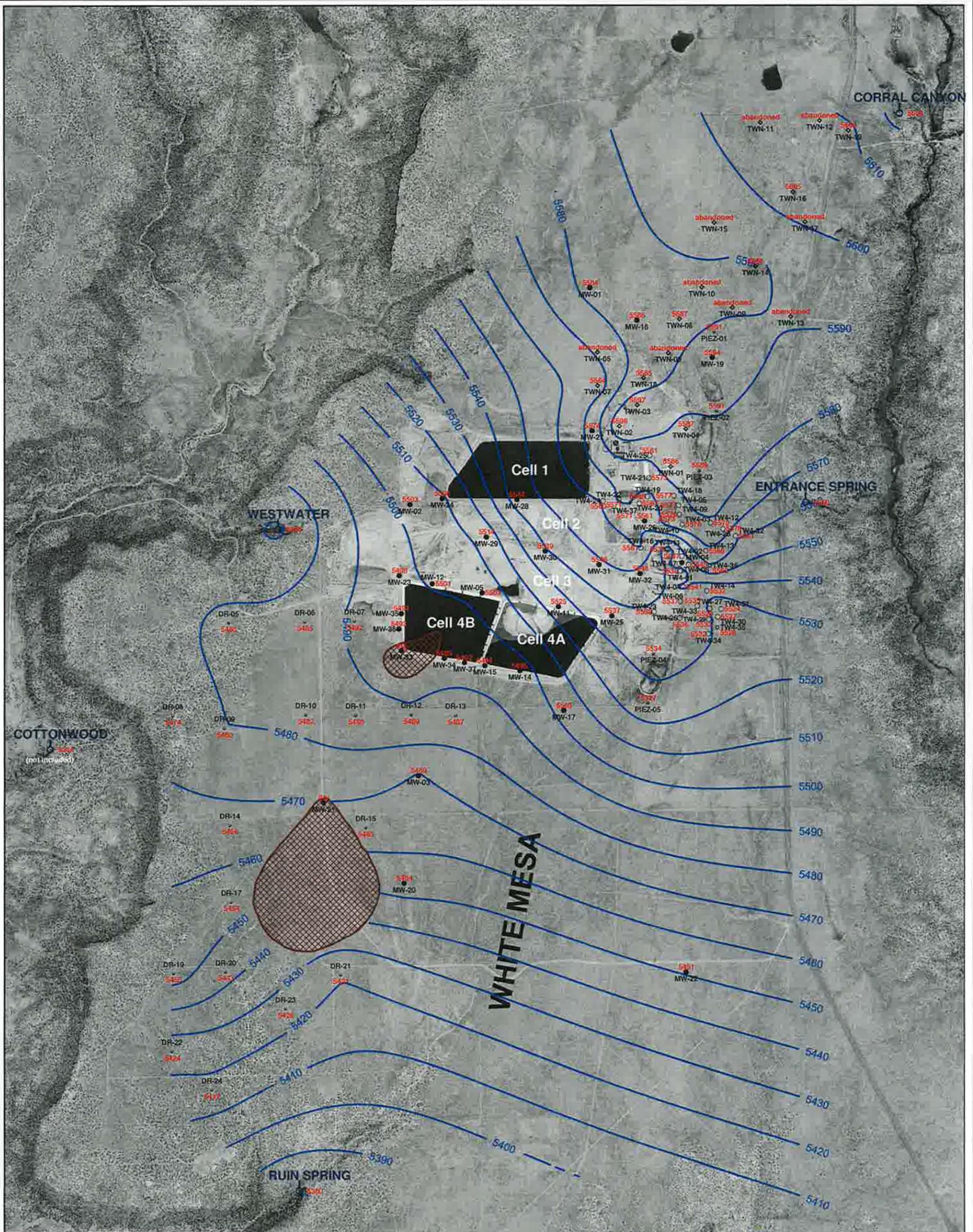
Tab D

Kriged Current Quarter Groundwater Contour Map, Details Map, and Depth to Water Summary

NAME: Tanner Holliday

9/30/2015

TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)
937	MW-1	64.12	1415	MW-4	78.95	927	PIEZ-1	64.84	NA	DR-1	Abandoned
1050	MW-2	109.66	1419	TW4-1	82.73	921	PIEZ-2	38.20	NA	DR-2	Abandoned
833	MW-3	85.50	1412	TW4-2	77.60	1034	PIEZ-3	49.11	816	DR-5	82.98
834	MW-3A	84.51	1158	TW4-3	56.07	1140	PIEZ-4	57.55	813	DR-6	94.25
1057	MW-5	106.10	1424	TW4-4	72.14	1137	PIEZ-5	57.08	1108	DR-7	92.05
1130	MW-11	86.10	1204	TW4-5	63.78	1023	TWN-1	61.70	809	DR-8	51.25
1100	MW-12	108.19	1148	TW4-6	71.38	1344	TWN-2	28.80	806	DR-9	86.47
1115	MW-14	103.07	1152	TW4-7	74.85	1029	TWN-3	37.89	802	DR-10	78.12
1116	MW-15	106.04	1155	TW4-8	76.56	1032	TWN-4	54.39	824	DR-11	98.08
838	MW-17	71.95	1201	TW4-9	61.61		TWN-5	Abandoned	827	DR-12	90.78
934	MW-18	71.79	1206	TW4-10	61.26	931	TWN-6	78.01	830	DR-13	69.87
923	MW-19	61.15	1409	TW4-11	90.35	939	TWN-7	85.62	751	DR-14	76.21
758	MW-20	86.15	855	TW4-12	45.36		TWN-8	Abandoned	754	DR-15	92.83
721	MW-22	66.70	900	TW4-13	51.28		TWN-9	Abandoned		DR-16	Abandoned
1054	MW-23	113.96	903	TW4-14	80.62		TWN-10	Abandoned	747	DR-17	64.85
1048	MW-24	113.11	1404	TW4-15	64.64		TWN-11	Abandoned		DR-18	Abandoned
1133	MW-25	76.28	1209	TW4-16	63.40		TWN-12	Abandoned	736	DR-19	63.00
1404	MW-26	64.64	1211	TW4-17	76.91		TWN-13	Abandoned	733	DR-20	55.56
1041	MW-27	53.97	1025	TW4-18	64.65	917	TWN-14	61.35	726	DR-21	101.00
1045	MW-28	75.30	1436	TW4-19	63.23		TWN-15	Abandoned	740	DR-22	60.60
1220	MW-29	100.83	1400	TW4-20	62.75	914	TWN-16	47.65	729	DR-23	70.43
1217	MW-30	75.40	1337	TW4-21	66.30		TWN-17	Abandoned	743	DR-24	44.17
1214	MW-31	68.40	1353	TW4-22	57.76	1038	TWN-18	60.08	NA	DR-25	Abandoned
1211	MW-32	76.91	1140	TW4-23	68.55	910	TWN-19	53.30			
1445	MW-33	DRY	1350	TW4-24	65.22						
1125	MW-34	107.13	1341	TW4-25	63.51						
1103	MW-35	112.29	1143	TW4-26	65.92						
1105	MW-36	110.40	843	TW4-27	79.81						
1121	MW-37	107.18	1856	TW4-28	39.44						
			844	TW4-29	73.25						
			850	TW4-30	76.07						
			852	TW4-31	80.24						
			858	TW4-32	50.88						
			841	TW4-33	71.92						
			846	TW4-34	71.26						
			848	TW4-35	74.06						
			901	TW4-36	56.41						
			1356	TW4-37	61.18						



EXPLANATION

-  estimated dry area
-  TW4-37 perched pumping well installed March, 2015 showing elevation in feet amsl
-  MW-5 perched monitoring well showing elevation in feet amsl
-  TW4-12 temporary perched monitoring well showing elevation in feet amsl
-  TWN-7 temporary perched nitrate monitoring well showing elevation in feet amsl
-  PIEZ-1 perched piezometer showing elevation in feet amsl
-  TW4-35 temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
-  RUIN SPRING seep or spring showing elevation in feet amsl

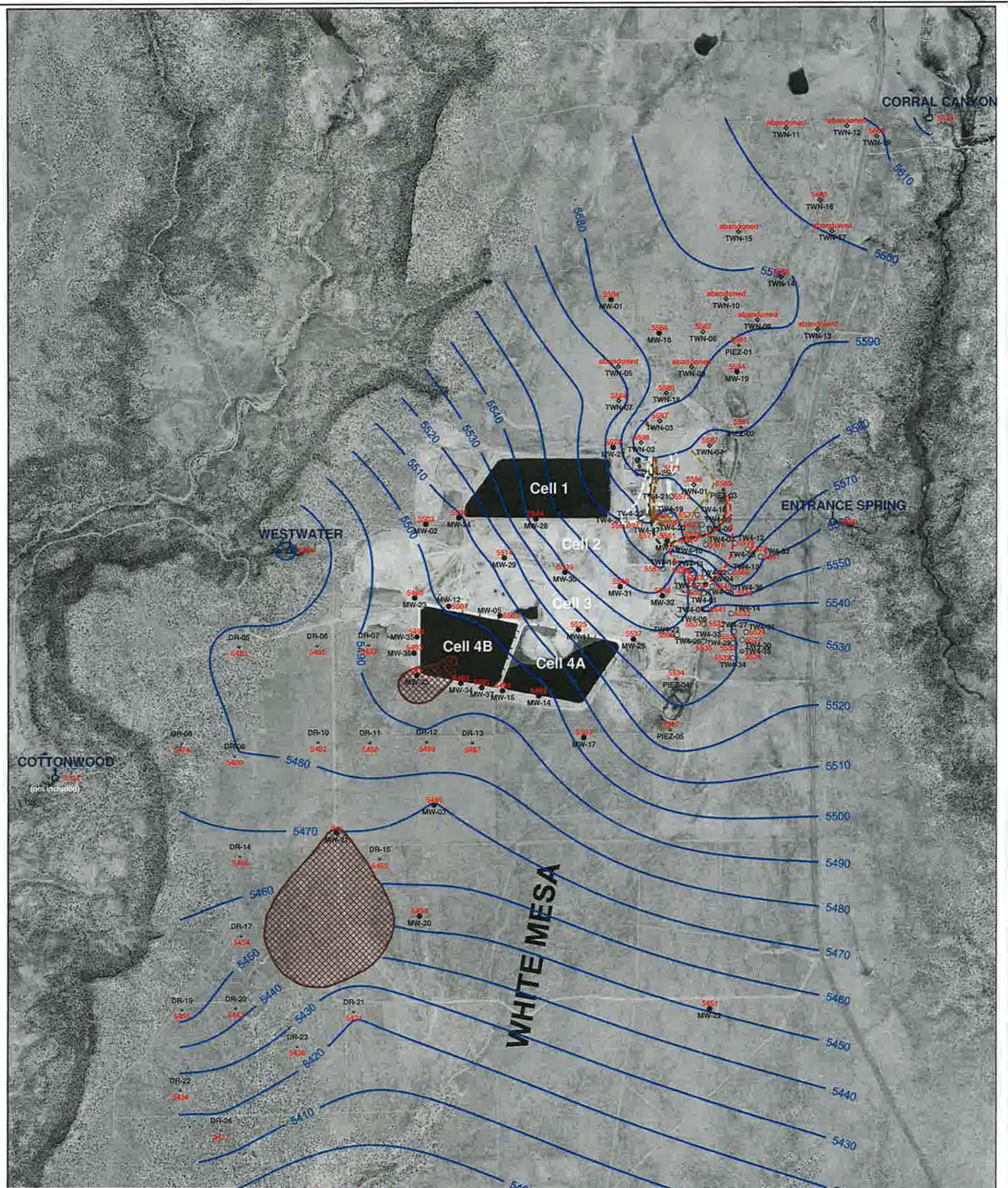
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells TW4-11 water level is below the base of the Burro Canyon Formation



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**KRIGED 3rd QUARTER, 2015 WATER LEVELS
WHITE MESA SITE**

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



EXPLANATION

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

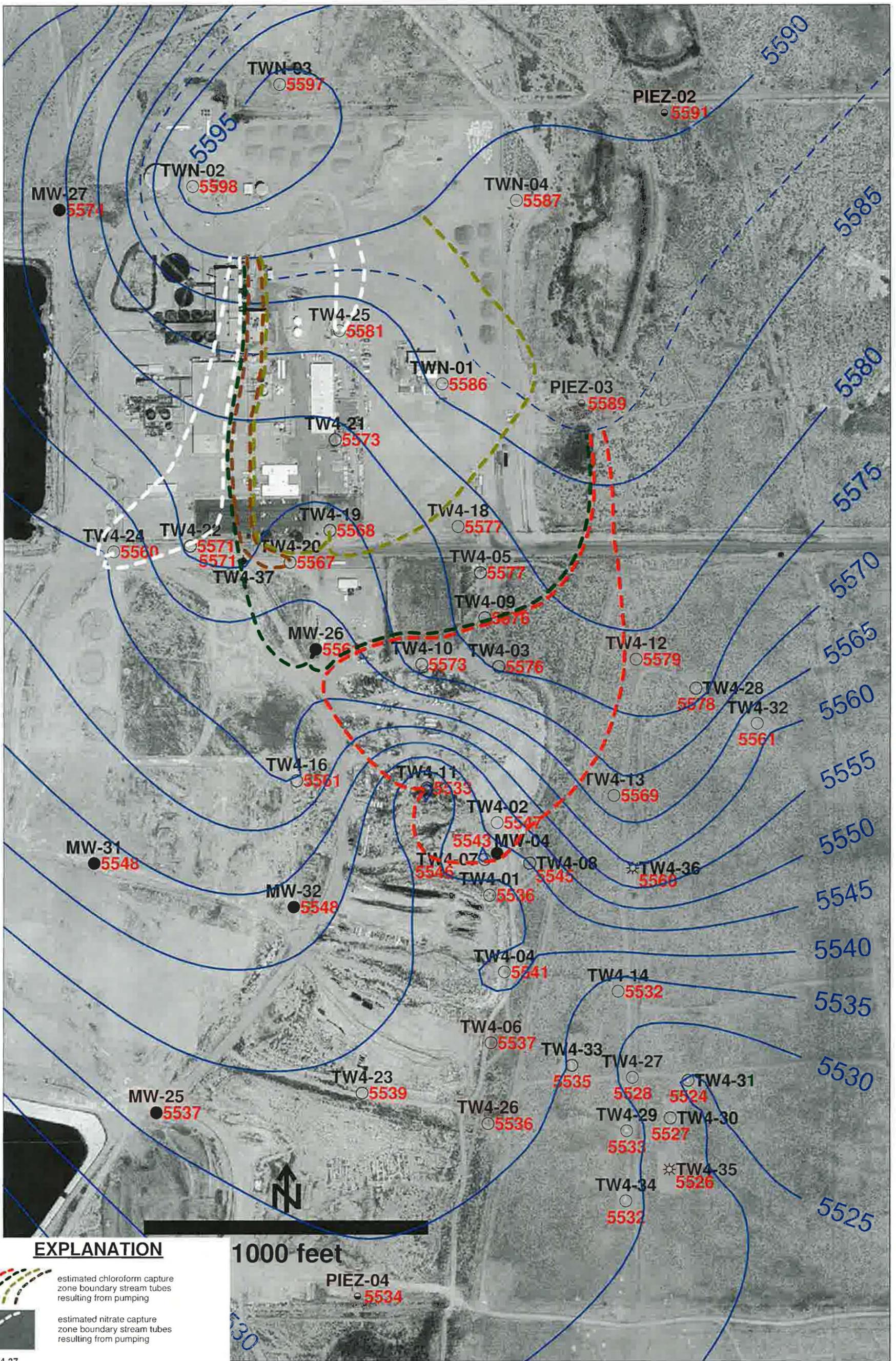
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation



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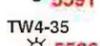
**KRIGED 3rd QUARTER, 2015 WATER LEVELS
AND ESTIMATED CAPTURE ZONES
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov15/WL/Uwl0915cz2.srf	D-2



EXPLANATION

-  estimated chloroform capture zone boundary stream tubes resulting from pumping
-  estimated nitrate capture zone boundary stream tubes resulting from pumping

-  **5571** perched pumping well installed March, 2015 showing elevation in feet amsl
-  **5537** perched monitoring well showing elevation in feet amsl
-  **5546** temporary perched monitoring well showing elevation in feet amsl
-  **5591** perched piezometer showing elevation in feet amsl
-  **5526** temporary perched monitoring well installed May, 2014 showing elevation in feet amsl

1000 feet

PIEZ-04
5534

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



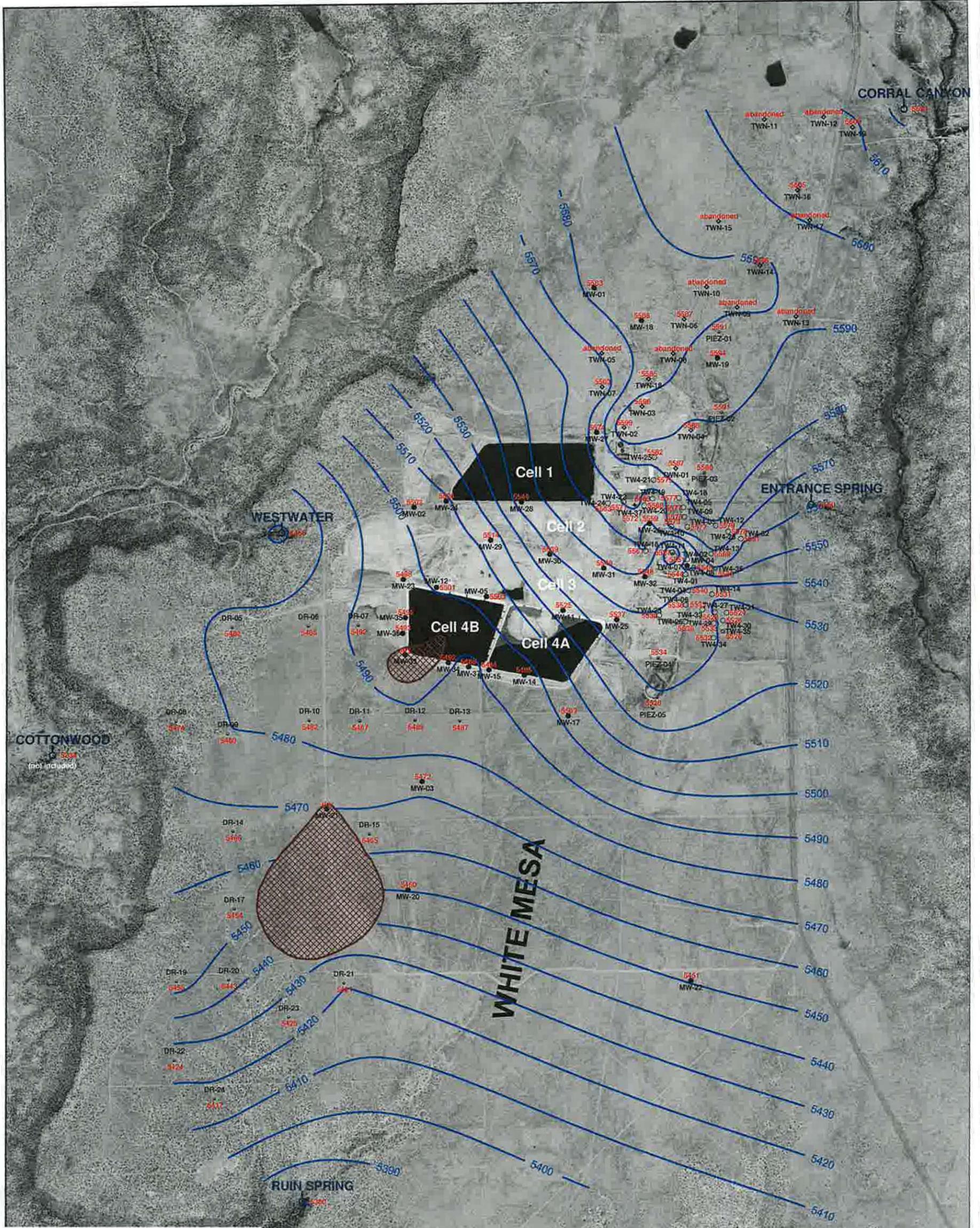
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**KRIGED 3rd QUARTER, 2015 WATER LEVELS
AND ESTIMATED CAPTURE ZONES
WHITE MESA SITE
(detail map)**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov15/WL/Uwl0915cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

-  estimated dry area
-  TW4-37 temporary perched monitoring well installed March, 2015 showing elevation in feet amsl
-  MW-5 perched monitoring well showing elevation in feet amsl
-  TW4-12 temporary perched monitoring well showing elevation in feet amsl
-  TWN-7 temporary perched nitrate monitoring well showing elevation in feet amsl
-  PIEZ-1 perched piezometer showing elevation in feet amsl
-  TW4-35 temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
-  RUIN SPRING 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



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KRIGED 2nd QUARTER, 2015 WATER LEVELS WHITE MESA SITE			
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/WL/Uw0615.srf	E-1

Tab F

Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations Over Time for
Chloroform Monitoring Wells

**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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
	5,620.77	5,622.33	1.56				123.6
5,527.63				09/25/79	94.70	93.14	
5,527.63				10/10/79	94.70	93.14	
5,528.43				01/10/80	93.90	92.34	
5,529.93				03/20/80	92.40	90.84	
5,528.03				06/17/80	94.30	92.74	
5,528.03				09/15/80	94.30	92.74	
5,527.93				10/08/80	94.40	92.84	
5,527.93				02/12/81	94.40	92.84	
5,525.93				09/01/84	96.40	94.84	
5,528.33				12/01/84	94.00	92.44	
5,528.13				02/01/85	94.20	92.64	
5,528.33				06/01/85	94.00	92.44	
5,528.93				09/01/85	93.40	91.84	
5,528.93				10/01/85	93.40	91.84	
5,528.93				11/01/85	93.40	91.84	
5,528.83				12/01/85	93.50	91.94	
5,512.33				03/01/86	110.00	108.44	
5,528.91				06/19/86	93.42	91.86	
5,528.83				09/01/86	93.50	91.94	
5,529.16				12/01/86	93.17	91.61	
5,526.66				02/20/87	95.67	94.11	
5,529.16				04/28/87	93.17	91.61	
5,529.08				08/14/87	93.25	91.69	
5,529.00				11/20/87	93.33	91.77	
5,528.75				01/26/88	93.58	92.02	
5,528.91				06/01/88	93.42	91.86	
5,528.25				08/23/88	94.08	92.52	
5,529.00				11/02/88	93.33	91.77	
5,528.33				03/09/89	94.00	92.44	
5,529.10				06/21/89	93.23	91.67	
5,529.06				09/01/89	93.27	91.71	
5,529.21				11/15/89	93.12	91.56	
5,529.22				02/16/90	93.11	91.55	
5,529.43				05/08/90	92.90	91.34	
5,529.40				08/07/90	92.93	91.37	
5,529.53				11/13/90	92.80	91.24	
5,529.86				02/27/91	92.47	90.91	
5,529.91				05/21/91	92.42	90.86	
5,529.77				08/27/91	92.56	91.00	
5,529.79				12/03/91	92.54	90.98	
5,530.13				03/17/92	92.20	90.64	
5,529.85				06/11/92	92.48	90.92	
5,529.90				09/13/92	92.43	90.87	

**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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
	5,620.77	5,622.33	1.56				123.6
5,529.92				12/09/92	92.41	90.85	
5,530.25				03/24/93	92.08	90.52	
5,530.20				06/08/93	92.13	90.57	
5,530.19				09/22/93	92.14	90.58	
5,529.75				12/14/93	92.58	91.02	
5,530.98				03/24/94	91.35	89.79	
5,531.35				06/15/94	90.98	89.42	
5,531.62				08/18/94	90.71	89.15	
5,532.58				12/13/94	89.75	88.19	
5,533.42				03/16/95	88.91	87.35	
5,534.70				06/27/95	87.63	86.07	
5,535.44				09/20/95	86.89	85.33	
5,537.16				12/11/95	85.17	83.61	
5,538.37				03/28/96	83.96	82.40	
5,539.10				06/07/96	83.23	81.67	
5,539.13				09/16/96	83.20	81.64	
5,542.29				03/20/97	80.04	78.48	
5,551.58				04/07/99	70.75	69.19	
5,552.08				05/11/99	70.25	68.69	
5,552.83				07/06/99	69.50	67.94	
5,553.47				09/28/99	68.86	67.30	
5,554.63				01/03/00	67.70	66.14	
5,555.13				04/04/00	67.20	65.64	
5,555.73				05/02/00	66.60	65.04	
5,556.03				05/11/00	66.30	64.74	
5,555.73				05/15/00	66.60	65.04	
5,555.98				05/25/00	66.35	64.79	
5,556.05				06/09/00	66.28	64.72	
5,556.18				06/16/00	66.15	64.59	
5,556.05				06/26/00	66.28	64.72	
5,556.15				07/06/00	66.18	64.62	
5,556.18				07/13/00	66.15	64.59	
5,556.17				07/18/00	66.16	64.60	
5,556.26				07/25/00	66.07	64.51	
5,556.35				08/02/00	65.98	64.42	
5,556.38				08/09/00	65.95	64.39	
5,556.39				08/15/00	65.94	64.38	
5,556.57				08/31/00	65.76	64.20	
5,556.68				09/08/00	65.65	64.09	
5,556.73				09/13/00	65.60	64.04	
5,556.82				09/20/00	65.51	63.95	
5,556.84				09/29/00	65.49	63.93	
5,556.81				10/05/00	65.52	63.96	

**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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
	5,620.77	5,622.33	1.56				123.6
5,556.89				10/12/00	65.44	63.88	
5,556.98				10/19/00	65.35	63.79	
5,557.01				10/23/00	65.32	63.76	
5,557.14				11/09/00	65.19	63.63	
5,557.17				11/14/00	65.16	63.60	
5,556.95				11/21/00	65.38	63.82	
5,557.08				11/30/00	65.25	63.69	
5,557.55				12/07/00	64.78	63.22	
5,557.66				01/14/01	64.67	63.11	
5,557.78				02/09/01	64.55	62.99	
5,558.28				03/29/01	64.05	62.49	
5,558.23				04/30/01	64.10	62.54	
5,558.31				05/31/01	64.02	62.46	
5,558.49				06/22/01	63.84	62.28	
5,558.66				07/10/01	63.67	62.11	
5,559.01				08/20/01	63.32	61.76	
5,559.24				09/19/01	63.09	61.53	
5,559.26				10/02/01	63.07	61.51	
5,559.27				11/08/01	63.06	61.50	
5,559.77				12/03/01	62.56	61.00	
5,559.78				01/03/02	62.55	60.99	
5,559.96				02/06/02	62.37	60.81	
5,560.16				03/26/02	62.17	60.61	
5,560.28				04/09/02	62.05	60.49	
5,560.76				05/23/02	61.57	60.01	
5,560.58				06/05/02	61.75	60.19	
5,560.43				07/08/02	61.90	60.34	
5,560.44				08/23/02	61.89	60.33	
5,560.71				09/11/02	61.62	60.06	
5,560.89				10/23/02	61.44	59.88	
5,557.86				11/22/02	64.47	62.91	
5,561.10				12/03/02	61.23	59.67	
5,561.39				01/09/03	60.94	59.38	
5,561.41				02/12/03	60.92	59.36	
5,561.93				03/26/03	60.40	58.84	
5,561.85				04/02/03	60.48	58.92	
5,536.62				05/01/03	85.71	84.15	
5,528.56				06/09/03	93.77	92.21	
5,535.28				07/07/03	87.05	85.49	
5,534.44				08/04/03	87.89	86.33	
5,537.10				09/11/03	85.23	83.67	
5,539.96				10/02/03	82.37	80.81	
5,535.91				11/07/03	86.42	84.86	

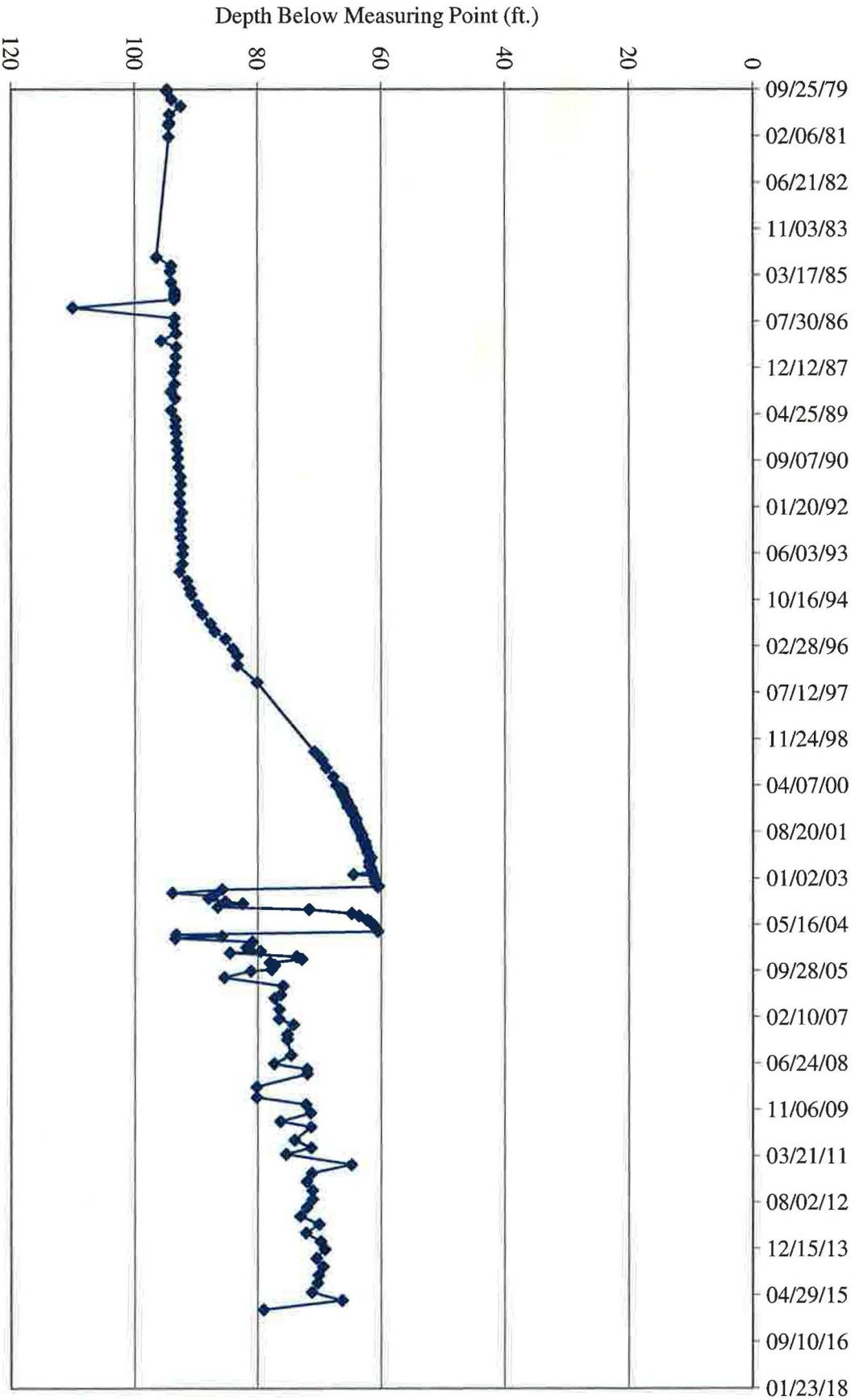
**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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
	5,620.77	5,622.33	1.56				123.6
5,550.70				12/03/03	71.63	70.07	
5,557.58				01/15/04	64.75	63.19	
5,558.80				02/10/04	63.53	61.97	
5,560.08				03/28/04	62.25	60.69	
5,560.55				04/12/04	61.78	60.22	
5,561.06				05/13/04	61.27	59.71	
5,561.48				06/18/04	60.85	59.29	
5,561.86				07/28/04	60.47	58.91	
5,529.17				08/30/04	93.16	91.60	
5,536.55				09/16/04	85.78	84.22	
5,529.00				10/11/04	93.33	91.77	
5,541.55				11/16/04	80.78	79.22	
5,541.12				12/22/04	81.21	79.65	
5,540.59				01/18/05	81.74	80.18	
5,542.85				02/28/05	79.48	77.92	
5,537.91				03/15/05	84.42	82.86	
5,548.67				04/26/05	73.66	72.10	
5,549.53				05/24/05	72.80	71.24	
5,544.36				06/30/05	77.97	76.41	
5,545.16				07/29/05	77.17	75.61	
5,544.67				09/12/05	77.66	76.10	
5,541.28				09/27/05	81.05	79.49	
5,536.96				12/07/05	85.37	83.81	
5,546.49				03/08/06	75.84	74.28	
5,546.15				06/13/06	76.18	74.62	
5,545.15				07/18/06	77.18	75.62	
5,545.91				11/17/06	76.42	74.86	
5,545.90				02/27/07	76.43	74.87	
5,548.16				05/02/07	74.17	72.61	
5,547.20				08/13/07	75.13	73.57	
5,547.20				10/10/07	75.13	73.57	
5,547.79				03/26/08	74.54	72.98	
5,545.09				06/25/08	77.24	75.68	
5,550.36				08/26/08	71.97	70.41	
5,550.39				10/14/08	71.94	70.38	
5,542.25				03/03/09	80.08	78.52	
5,542.25				06/24/09	80.08	78.52	
5,550.19				09/10/09	72.14	70.58	
5,550.94				12/11/09	71.39	69.83	
5,546.08				03/11/10	76.25	74.69	
5,550.98				05/11/10	71.35	69.79	
5,548.33				09/29/10	74.00	72.44	
5,551.01				12/21/10	71.32	69.76	

**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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
	5,620.77	5,622.33	1.56				123.6
5,547.00				02/28/11	75.33	73.77	
5,557.54				06/21/11	64.79	63.23	
5,551.14				09/20/11	71.19	69.63	
5,550.32				12/21/11	72.01	70.45	
5,551.22				03/27/12	71.11	69.55	
5,551.29				06/28/12	71.04	69.48	
5,550.29				09/27/12	72.04	70.48	
5,549.31				12/28/12	73.02	71.46	
5,552.30				03/28/13	70.03	68.47	
5,550.18				06/27/13	72.15	70.59	
5,552.55				09/27/13	69.78	68.22	
5,553.23				12/20/13	69.10	67.54	
5,551.91				03/27/14	70.42	68.86	
5,552.93				06/25/14	69.40	67.84	
5,552.23				09/25/14	70.10	68.54	
5,552.08				12/17/14	70.25	68.69	
5,551.13				03/26/15	71.20	69.64	
5,556.02				06/22/15	66.31	64.75	
5,543.38				09/30/15	78.95	77.39	

MW 4 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-1**

Water Elevation (WL) z	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
	5,620.77	5,618.58	1.02				111.04
5,537.23				11/08/99	81.35	80.33	
5,537.38				11/09/99	81.20	80.18	
5,537.48				01/02/00	81.10	80.08	
5,537.48				01/10/00	81.10	80.08	
5,537.23				01/17/00	81.35	80.33	
5,537.28				01/24/00	81.30	80.28	
5,537.28				02/01/00	81.30	80.28	
5,537.18				02/07/00	81.40	80.38	
5,537.48				02/14/00	81.10	80.08	
5,537.48				02/23/00	81.10	80.08	
5,537.58				03/01/00	81.00	79.98	
5,537.68				03/08/00	80.90	79.88	
5,537.98				03/15/00	80.60	79.58	
5,537.68				03/20/00	80.90	79.88	
5,537.68				03/29/00	80.90	79.88	
5,537.43				04/04/00	81.15	80.13	
5,537.18				04/13/00	81.40	80.38	
5,537.48				04/21/00	81.10	80.08	
5,537.68				04/28/00	80.90	79.88	
5,537.58				05/01/00	81.00	79.98	
5,537.88				05/11/00	80.70	79.68	
5,537.58				05/15/00	81.00	79.98	
5,537.88				05/25/00	80.70	79.68	
5,537.88				06/09/00	80.70	79.68	
5,537.90				06/16/00	80.68	79.66	
5,537.88				06/26/00	80.70	79.68	
5,538.10				07/06/00	80.48	79.46	
5,538.04				07/13/00	80.54	79.52	
5,538.16				07/18/00	80.42	79.40	
5,538.42				07/27/00	80.16	79.14	
5,538.56				08/02/00	80.02	79.00	
5,538.68				08/09/00	79.90	78.88	
5,538.66				08/15/00	79.92	78.90	
5,538.33				08/31/00	80.25	79.23	
5,539.18				09/01/00	79.40	78.38	
5,539.12				09/08/00	79.46	78.44	
5,539.34				09/13/00	79.24	78.22	
5,539.50				09/20/00	79.08	78.06	
5,539.69				10/05/00	78.89	77.87	
5,540.33				11/09/00	78.25	77.23	
5,540.74				12/06/00	77.84	76.82	
5,542.39				01/14/01	76.19	75.17	
5,543.69				02/02/01	74.89	73.87	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-1**

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
z	5,620.77	5,618.58	1.02				111.04
5,544.96				03/29/01	73.62	72.60	
5,545.45				04/30/01	73.13	72.11	
5,545.89				05/31/01	72.69	71.67	
5,546.19				06/21/01	72.39	71.37	
5,546.50				07/10/01	72.08	71.06	
5,547.18				08/20/01	71.40	70.38	
5,547.59				09/19/01	70.99	69.97	
5,547.84				10/02/01	70.74	69.72	
5,548.12				11/08/01	70.46	69.44	
5,548.65				12/03/01	69.93	68.91	
5,548.87				01/03/02	69.71	68.69	
5,549.37				02/06/02	69.21	68.19	
5,550.00				03/26/02	68.58	67.56	
5,550.22				04/09/02	68.36	67.34	
5,550.81				05/23/02	67.77	66.75	
5,550.79				06/05/02	67.79	66.77	
5,551.08				07/08/02	67.50	66.48	
5,551.54				08/23/02	67.04	66.02	
5,551.79				09/11/02	66.79	65.77	
5,552.19				10/23/02	66.39	65.37	
5,552.27				11/22/02	66.31	65.29	
5,552.48				12/03/02	66.10	65.08	
5,552.74				01/09/03	65.84	64.82	
5,552.92				02/12/03	65.66	64.64	
5,553.40				03/26/03	65.18	64.16	
5,553.48				04/02/03	65.10	64.08	
5,552.32				05/01/03	66.26	65.24	
5,550.53				06/09/03	68.05	67.03	
5,550.09				07/07/03	68.49	67.47	
5,549.64				08/04/03	68.94	67.92	
5,549.31				09/11/03	69.27	68.25	
5,549.58				10/02/03	69.00	67.98	
5,549.50				11/07/03	69.08	68.06	
5,550.07				12/03/03	68.51	67.49	
5,551.86				01/15/04	66.72	65.70	
5,552.57				02/10/04	66.01	64.99	
5,553.63				03/28/04	64.95	63.93	
5,554.04				04/12/04	64.54	63.52	
5,554.60				05/13/04	63.98	62.96	
5,556.28				06/18/04	62.30	61.28	
5,556.61				07/28/04	61.97	60.95	
5,554.21				08/30/04	64.37	63.35	
5,553.49				09/16/04	65.09	64.07	

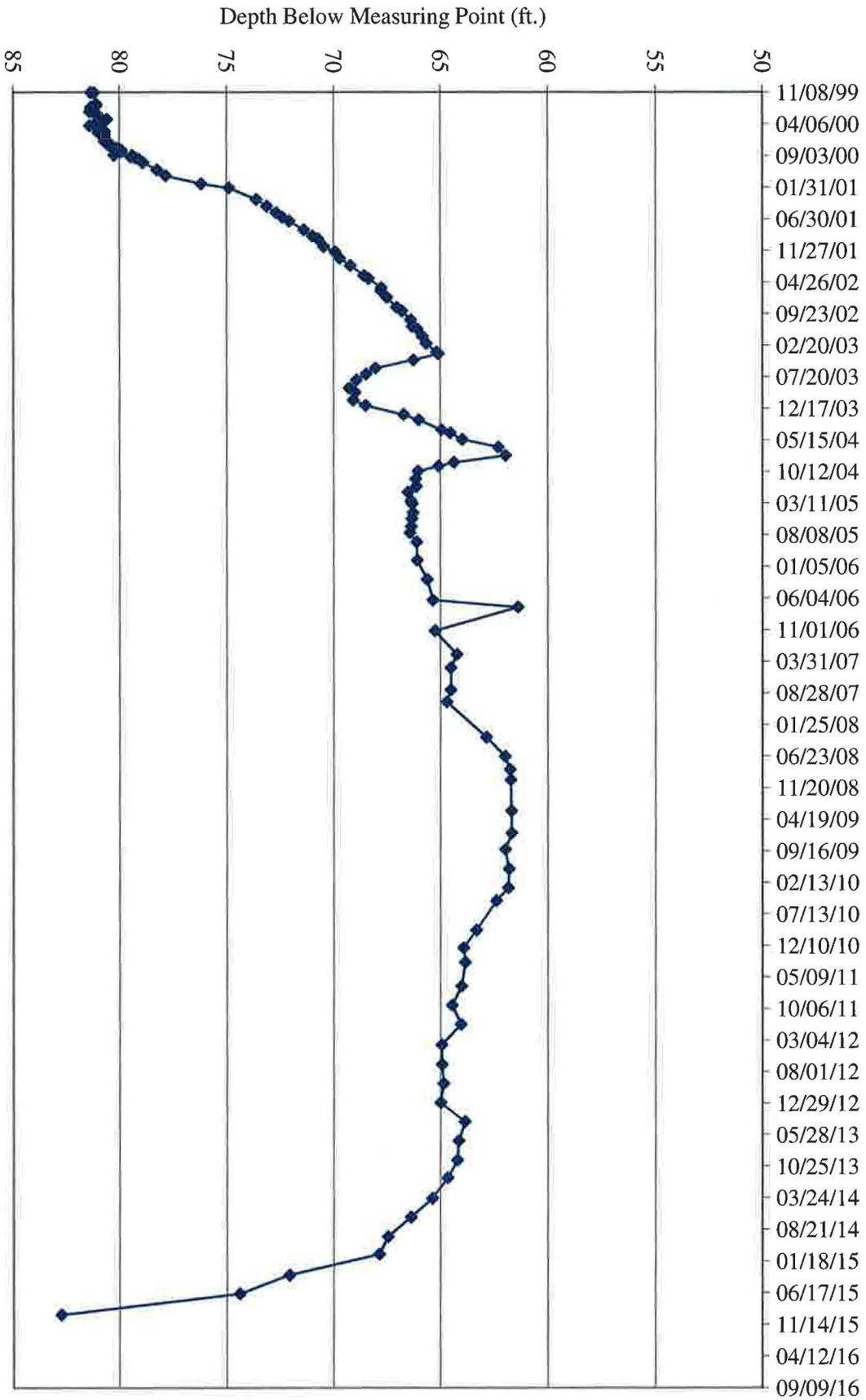
**Water Levels and Data over Time
White Mesa Mill - Well TW4-1**

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
z	5,620.77	5,618.58	1.02				111.04
5,552.53				10/11/04	66.05	65.03	
5,552.42				11/16/04	66.16	65.14	
5,552.46				12/22/04	66.12	65.10	
5,552.07				01/18/05	66.51	65.49	
5,552.21				02/28/05	66.37	65.35	
5,552.26				03/15/05	66.32	65.30	
5,552.30				04/26/05	66.28	65.26	
5,552.25				05/24/05	66.33	65.31	
5,552.22				06/30/05	66.36	65.34	
5,552.15				07/29/05	66.43	65.41	
5,552.47				09/12/05	66.11	65.09	
5,552.50				12/07/05	66.08	65.06	
5,552.96				03/08/06	65.62	64.60	
5,553.23				06/14/06	65.35	64.33	
5,557.20				07/18/06	61.38	60.36	
5,553.32				11/07/06	65.26	64.24	
5,554.35				02/27/07	64.23	63.21	
5,554.07				05/02/07	64.51	63.49	
5,554.07				08/14/07	64.51	63.49	
5,553.88				10/10/07	64.70	63.68	
5,555.73				03/26/08	62.85	61.83	
5,556.60				06/24/08	61.98	60.96	
5,556.83				08/26/08	61.75	60.73	
5,556.87				10/14/08	61.71	60.69	
5,556.90				03/10/09	61.68	60.66	
5,556.91				06/24/09	61.67	60.65	
5,556.61				09/10/09	61.97	60.95	
5,556.78				12/11/09	61.8	60.78	
5,556.75				03/11/10	61.83	60.81	
5,556.19				05/11/10	62.39	61.37	
5,555.26				09/29/10	63.32	62.30	
5,554.66				12/21/10	63.92	62.90	
5,554.74				02/28/11	63.84	62.82	
5,554.57				06/21/11	64.01	62.99	
5,554.13				09/20/11	64.45	63.43	
5,554.54				12/21/11	64.04	63.02	
5,553.64				03/27/12	64.94	63.92	
5,553.66				06/28/12	64.92	63.90	
5,553.73				09/27/12	64.85	63.83	
5,553.59				12/28/12	64.99	63.97	
5,554.73				03/28/13	63.85	62.83	
5,554.44				06/27/13	64.14	63.12	
5,554.37				09/27/13	64.21	63.19	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-1**

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
z	5,620.77	5,618.58	1.02				111.04
5,553.92				12/20/13	64.66	63.64	
5,553.20				03/27/14	65.38	64.36	
5,552.20				06/25/14	66.38	65.36	
5,551.13				09/25/14	67.45	66.43	
5,550.72				12/17/14	67.86	66.84	
5,546.50				03/26/15	72.08	71.06	
5,544.18				06/22/15	74.40	73.38	
5,535.85				09/30/15	82.73	81.71	

TW4-1 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-2**

Water Elevation (z)	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
	5,623.10	5,624.72	1.62				121.125
5,548.57				11/08/99	76.15	74.53	
5,548.57				11/09/99	76.15	74.53	
5,548.32				01/02/00	76.40	74.78	
5,548.52				01/10/00	76.20	74.58	
5,548.32				01/17/00	76.40	74.78	
5,548.72				01/24/00	76.00	74.38	
5,548.62				02/01/00	76.10	74.48	
5,548.62				02/07/00	76.10	74.48	
5,549.02				02/14/00	75.70	74.08	
5,549.12				02/23/00	75.60	73.98	
5,549.22				03/01/00	75.50	73.88	
5,549.32				03/08/00	75.40	73.78	
5,549.22				03/15/00	75.50	73.88	
5,549.92				03/20/00	74.80	73.18	
5,549.72				03/29/00	75.00	73.38	
5,549.42				04/04/00	75.30	73.68	
5,549.52				04/13/00	75.20	73.58	
5,549.72				04/21/00	75.00	73.38	
5,549.82				04/28/00	74.90	73.28	
5,549.82				05/01/00	74.90	73.28	
5,550.12				05/11/00	74.60	72.98	
5,549.82				05/15/00	74.90	73.28	
5,550.12				05/25/00	74.60	72.98	
5,550.12				06/09/00	74.60	72.98	
5,550.22				06/16/00	74.50	72.88	
5,550.07				06/26/00	74.65	73.03	
5,550.17				07/06/00	74.55	72.93	
5,550.17				07/13/00	74.55	72.93	
5,550.18				07/18/00	74.54	72.92	
5,550.33				07/27/00	74.39	72.77	
5,550.38				08/02/00	74.34	72.72	
5,550.40				08/09/00	74.32	72.70	
5,550.42				08/15/00	74.30	72.68	
5,550.54				08/31/00	74.18	72.56	
5,550.87				09/08/00	73.85	72.23	
5,550.97				09/13/00	73.75	72.13	
5,551.04				09/20/00	73.68	72.06	
5,545.83				10/05/00	78.89	77.27	
5,546.47				11/09/00	78.25	76.63	
5,546.88				12/06/00	77.84	76.22	
5,552.18				01/26/01	72.54	70.92	
5,552.20				02/02/01	72.52	70.90	
5,551.10				03/29/01	73.62	72.00	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-2**

Water Elevation (z)	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
	5,623.10	5,624.72	1.62				121.125
5,551.59				04/30/01	73.13	71.51	
5,552.03				05/31/01	72.69	71.07	
5,552.33				06/21/01	72.39	70.77	
5,552.64				07/10/01	72.08	70.46	
5,553.32				08/20/01	71.40	69.78	
5,553.73				09/19/01	70.99	69.37	
5,553.98				10/02/01	70.74	69.12	
5,554.14				11/08/01	70.58	68.96	
5,554.79				12/03/01	69.93	68.31	
5,554.74				01/03/02	69.98	68.36	
5,554.91				02/06/02	69.81	68.19	
5,555.15				03/26/02	69.57	67.95	
5,555.39				04/09/02	69.33	67.71	
5,555.73				05/23/02	68.99	67.37	
5,555.79				06/05/02	68.93	67.31	
5,555.91				07/08/02	68.81	67.19	
5,556.04				08/23/02	68.68	67.06	
5,556.25				09/11/02	68.47	66.85	
5,556.72				10/23/02	68.00	66.38	
5,556.42				11/22/02	68.30	66.68	
5,557.01				12/03/02	67.71	66.09	
5,557.20				01/09/03	67.52	65.90	
5,557.35				02/12/03	67.37	65.75	
5,557.83				03/26/03	66.89	65.27	
5,557.87				04/02/03	66.85	65.23	
5,553.71				05/01/03	71.01	69.39	
5,548.98				06/09/03	75.74	74.12	
5,548.14				07/07/03	76.58	74.96	
5,547.75				08/04/03	76.97	75.35	
5,547.22				09/11/03	77.50	75.88	
5,547.68				10/02/03	77.04	75.42	
5,547.52				11/07/03	77.20	75.58	
5,548.29				12/03/03	76.43	74.81	
5,554.00				01/15/04	70.72	69.10	
5,555.46				02/10/04	69.26	67.64	
5,556.90				03/28/04	67.82	66.20	
5,557.49				04/12/04	67.23	65.61	
5,558.07				05/13/04	66.65	65.03	
5,558.19				06/18/04	66.53	64.91	
5,559.00				07/28/04	65.72	64.10	
5,554.26				08/30/04	70.46	68.84	
5,551.97				09/16/04	72.75	71.13	
5,549.65				10/11/04	75.07	73.45	

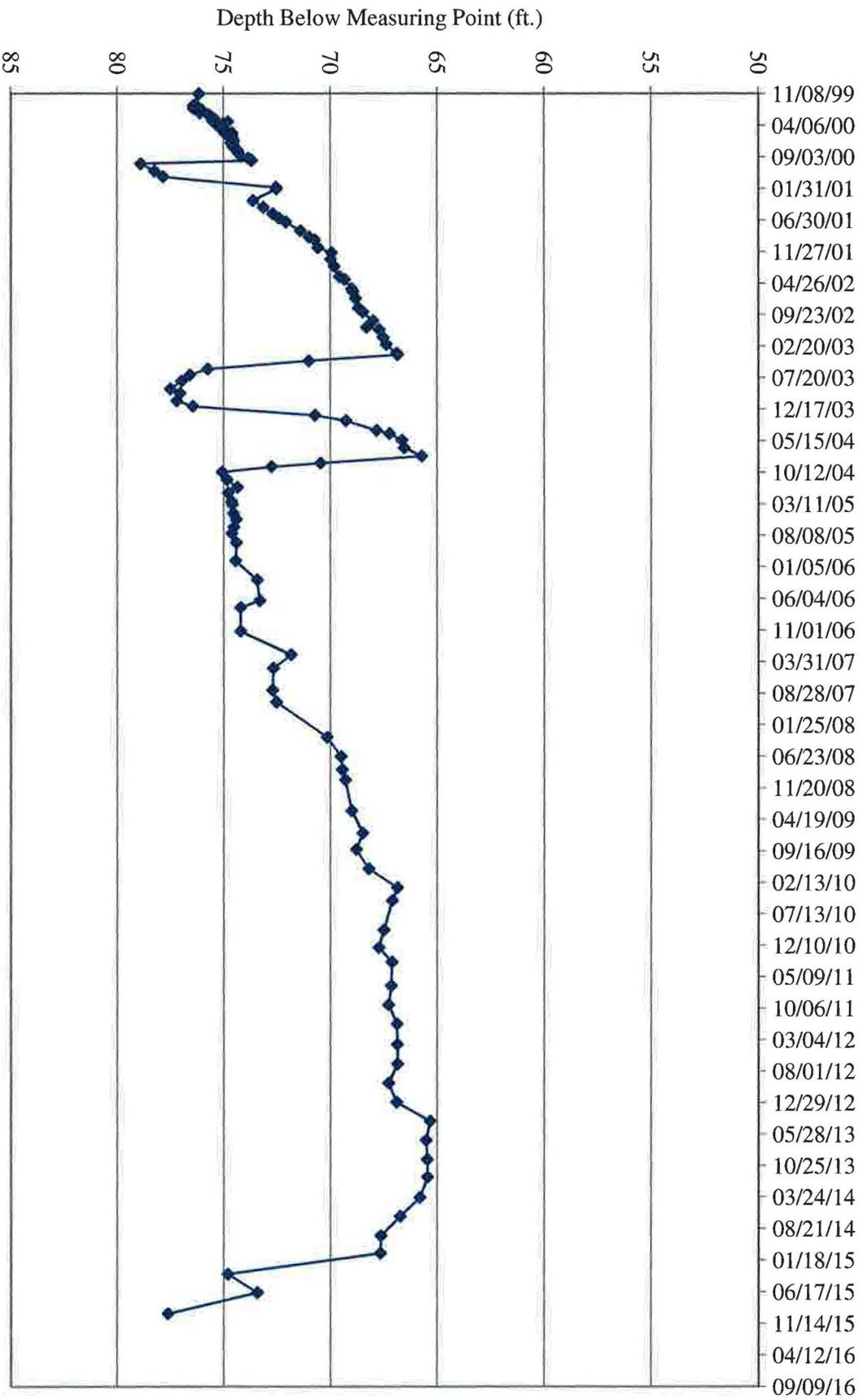
**Water Levels and Data over Time
White Mesa Mill - Well TW4-2**

Water Elevation (z)	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
	5,623.10	5,624.72	1.62				121.125
5,549.89				11/16/04	74.83	73.21	
5,550.37				12/22/04	74.35	72.73	
5,549.95				01/18/05	74.77	73.15	
5,550.09				02/28/05	74.63	73.01	
5,550.13				03/15/05	74.59	72.97	
5,550.18				04/26/05	74.54	72.92	
5,550.32				05/24/05	74.40	72.78	
5,550.21				06/30/05	74.51	72.89	
5,550.11				07/29/05	74.61	72.99	
5,550.33				09/12/05	74.39	72.77	
5,550.29				12/07/05	74.43	72.81	
5,551.30				03/08/06	73.42	71.80	
5,551.42				06/14/06	73.3	71.68	
5,550.52				07/18/06	74.20	72.58	
5550.52				11/07/06	74.20	72.58	
5552.89				02/27/07	71.83	70.21	
5,552.06				05/02/07	72.66	71.04	
5,552.02				08/14/07	72.7	71.08	
5,552.20				10/10/07	72.52	70.90	
5,554.58				03/26/08	70.14	68.52	
5,555.23				06/24/08	69.49	67.87	
5,555.29				08/26/08	69.43	67.81	
5,555.43				10/14/08	69.29	67.67	
5,555.73				03/10/09	68.99	67.37	
5,556.25				06/24/09	68.47	66.85	
5,555.94				09/10/09	68.78	67.16	
5,556.53				12/11/09	68.19	66.57	
5,557.87				03/11/10	66.85	65.23	
5,557.63				05/11/10	67.09	65.47	
5,557.24				09/29/10	67.48	65.86	
5,557.00				12/21/10	67.72	66.10	
5,557.61				02/28/11	67.11	65.49	
5,557.58				06/21/11	67.14	65.52	
5,557.46				09/20/11	67.26	65.64	
5,557.84				12/21/11	66.88	65.26	
5,557.86				03/27/12	66.86	65.24	
5,557.87				06/28/12	66.85	65.23	
5,557.46				09/27/12	67.26	65.64	
5,557.82				12/28/12	66.9	65.28	
5,559.39				03/28/13	65.33	63.71	
5,559.21				06/27/13	65.51	63.89	
5,559.26				09/27/13	65.46	63.84	
5,559.27				12/20/13	65.45	63.83	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-2**

Water Elevation (z)	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
	5,623.10	5,624.72	1.62				121.125
5,558.92				03/27/14	65.8	64.18	
5,557.99				06/25/14	66.73	65.11	
5,557.09				09/25/14	67.63	66.01	
5,557.07				12/17/14	67.65	66.03	
5,549.93				03/26/15	74.79	73.17	
5,551.30				06/22/15	73.42	71.80	
5,547.12				09/30/15	77.60	75.98	

TW4-2 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-3**

Water Elevation (z)	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
	5,631.21	5,632.23	1.02				141
5,565.78				11/29/99	66.45	65.43	
5,566.93				01/02/00	65.30	64.28	
5,567.03				01/10/00	65.20	64.18	
5,566.83				01/17/00	65.40	64.38	
5,567.13				01/24/00	65.10	64.08	
5,567.33				02/01/00	64.90	63.88	
5,567.13				02/07/00	65.10	64.08	
5,567.43				02/14/00	64.80	63.78	
5,567.63				02/23/00	64.60	63.58	
5,567.73				03/01/00	64.50	63.48	
5,567.83				03/08/00	64.40	63.38	
5,567.70				03/15/00	64.53	63.51	
5,568.03				03/20/00	64.20	63.18	
5,567.93				03/29/00	64.30	63.28	
5,567.63				04/04/00	64.60	63.58	
5,567.83				04/13/00	64.40	63.38	
5,568.03				04/21/00	64.20	63.18	
5,568.23				04/28/00	64.00	62.98	
5,568.13				05/01/00	64.10	63.08	
5,568.53				05/11/00	63.70	62.68	
5,568.23				05/15/00	64.00	62.98	
5,568.53				05/25/00	63.70	62.68	
5,568.61				06/09/00	63.62	62.60	
5,568.69				06/16/00	63.54	62.52	
5,568.45				06/26/00	63.78	62.76	
5,568.61				07/06/00	63.62	62.60	
5,568.61				07/06/00	63.62	62.60	
5,568.49				07/13/00	63.74	62.72	
5,568.55				07/18/00	63.68	62.66	
5,568.65				07/27/00	63.58	62.56	
5,568.73				08/02/00	63.50	62.48	
5,568.77				08/09/00	63.46	62.44	
5,568.76				08/16/00	63.47	62.45	
5,568.95				08/31/00	63.28	62.26	
5,568.49				09/08/00	63.74	62.72	
5,568.67				09/13/00	63.56	62.54	
5,568.96				09/20/00	63.27	62.25	
5,568.93				10/05/00	63.3	62.28	
5,569.34				11/09/00	62.89	61.87	
5,568.79				12/06/00	63.44	62.42	
5,569.11				01/03/01	63.12	62.10	
5,569.75				02/09/01	62.48	61.46	
5,570.34				03/28/01	61.89	60.87	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-3**

Water Elevation (z)	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
	5,631.21	5,632.23	1.02				141
5,570.61				04/30/01	61.62	60.60	
5,570.70				05/31/01	61.53	60.51	
5,570.88				06/21/01	61.35	60.33	
5,571.02				07/10/01	61.21	60.19	
5,571.70				08/20/01	60.53	59.51	
5,572.12				09/19/01	60.11	59.09	
5,572.08				10/02/01	60.15	59.13	
5,572.78				11/08/01	59.45	58.43	
5,573.27				12/03/01	58.96	57.94	
5,573.47				01/03/02	58.76	57.74	
5,573.93				02/06/02	58.30	57.28	
5,574.75				03/26/02	57.48	56.46	
5,574.26				04/09/02	57.97	56.95	
5,575.39				05/23/02	56.84	55.82	
5,574.84				06/05/02	57.39	56.37	
5,575.33				07/08/02	56.90	55.88	
5,575.79				08/23/02	56.44	55.42	
5,576.08				09/11/02	56.15	55.13	
5,576.30				10/23/02	55.93	54.91	
5,576.35				11/22/02	55.88	54.86	
5,576.54				12/03/02	55.69	54.67	
5,576.96				01/09/03	55.27	54.25	
5,577.11				02/12/03	55.12	54.10	
5,577.61				03/26/03	54.62	53.60	
5,572.80				04/02/03	59.43	58.41	
5,577.89				05/01/03	54.34	53.32	
5,577.91				06/09/03	54.32	53.30	
5,577.53				07/07/03	54.70	53.68	
5,577.50				08/04/03	54.73	53.71	
5,577.71				09/11/03	54.52	53.50	
5,577.31				10/02/03	54.92	53.90	
5,577.33				11/07/03	54.90	53.88	
5,577.34				12/03/03	54.89	53.87	
5,578.24				01/15/04	53.99	52.97	
5,578.38				02/10/04	53.85	52.83	
5,578.69				03/28/04	53.54	52.52	
5,579.15				04/12/04	53.08	52.06	
5,579.47				05/13/04	52.76	51.74	
5,579.53				06/18/04	52.70	51.68	
5,580.17				07/28/04	52.06	51.04	
5,580.20				08/30/04	52.03	51.01	
5,580.26				09/16/04	51.97	50.95	
5,580.12				10/11/04	52.11	51.09	

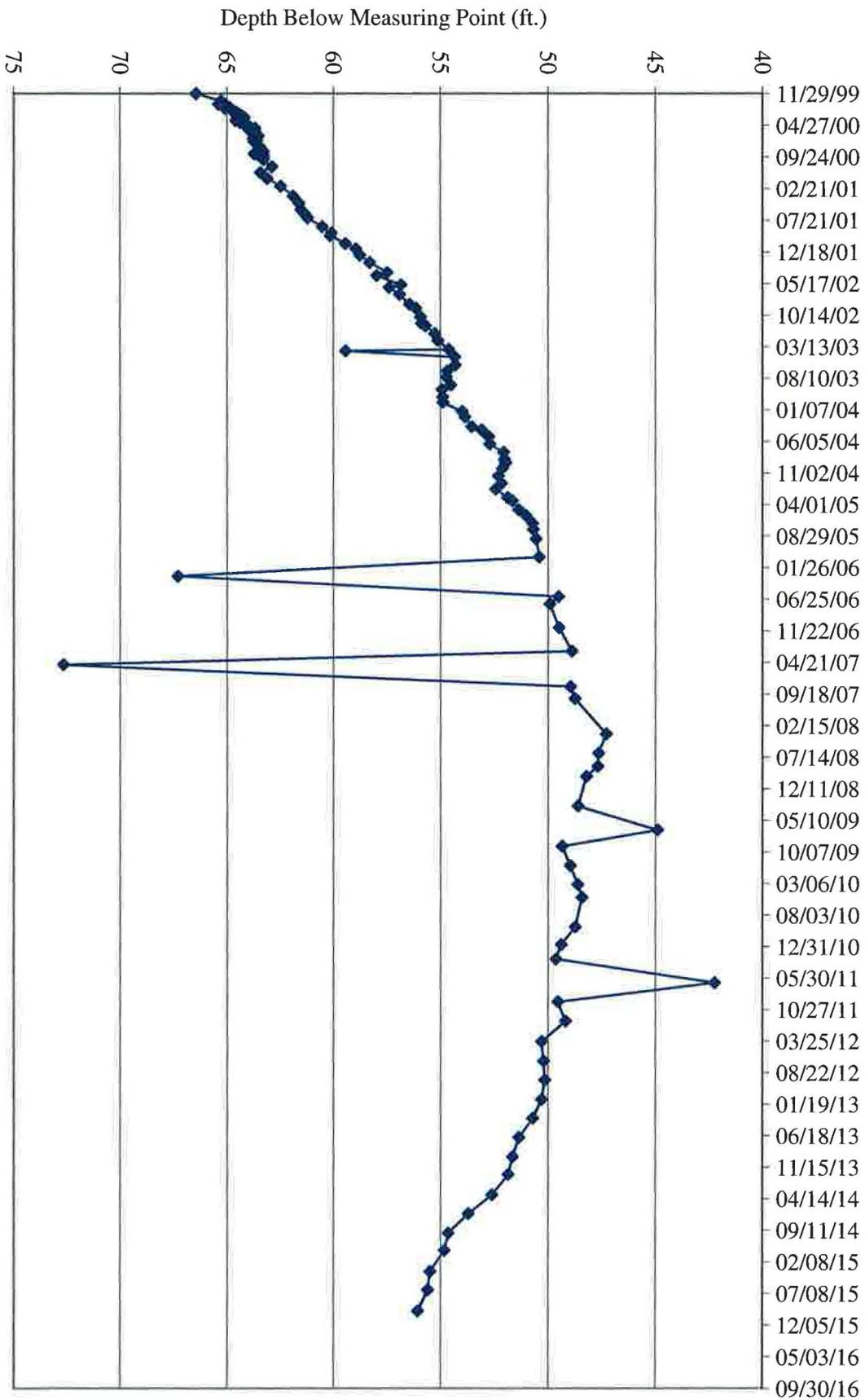
**Water Levels and Data over Time
White Mesa Mill - Well TW4-3**

Water Elevation (z)	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
	5,631.21	5,632.23	1.02				141
5,579.93				11/16/04	52.30	51.28	
5,580.07				12/22/04	52.16	51.14	
5,579.80				01/18/05	52.43	51.41	
5,580.35				02/28/05	51.88	50.86	
5,580.57				03/15/05	51.66	50.64	
5,580.86				04/26/05	51.37	50.35	
5,581.20				05/24/05	51.03	50.01	
5,581.51				06/30/05	50.72	49.70	
5,581.55				07/29/05	50.68	49.66	
5,581.68				09/12/05	50.55	49.53	
5,581.83				12/07/05	50.4	49.38	
5,564.92				03/08/06	67.31	66.29	
5,582.73				06/13/06	49.50	48.48	
5,582.33				07/18/06	49.90	48.88	
5,582.75				11/07/06	49.48	48.46	
5,583.35				02/27/07	48.88	47.86	
5,559.57				05/02/07	72.66	71.64	
5,583.29				08/14/07	48.94	47.92	
5,583.49				10/10/07	48.74	47.72	
5,584.95				03/26/08	47.28	46.26	
5,584.59				06/24/08	47.64	46.62	
5,584.55				08/26/08	47.68	46.66	
5,584.03				10/14/08	48.2	47.18	
5,583.64				03/03/09	48.59	47.57	
5,587.34				06/24/09	44.89	43.87	
5,582.90				09/10/09	49.33	48.31	
5,583.27				12/11/09	48.96	47.94	
5,583.63				03/11/10	48.6	47.58	
5,583.82				05/11/10	48.41	47.39	
5,583.51				09/29/10	48.72	47.70	
5,582.86				12/21/10	49.37	48.35	
5,582.60				02/28/11	49.63	48.61	
5,590.00				06/21/11	42.23	41.21	
5,582.70				09/20/11	49.53	48.51	
5,583.05				12/21/11	49.18	48.16	
5,581.93				03/27/12	50.30	49.28	
5,582.03				06/28/12	50.20	49.18	
5,582.08				09/27/12	50.15	49.13	
5,581.94				12/28/12	50.29	49.27	
5,581.52				03/28/13	50.71	49.69	
5,580.88				06/27/13	51.35	50.33	
5,580.58				09/27/13	51.65	50.63	
5,580.38				12/20/13	51.85	50.83	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-3**

Water Elevation (z)	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
	5,631.21	5,632.23	1.02				141
5,579.62				03/27/14	52.61	51.59	
5,578.52				06/25/14	53.71	52.69	
5,577.59				09/25/14	54.64	53.62	
5,577.40				12/17/14	54.83	53.81	
5,576.73				03/26/15	55.50	54.48	
5,576.62				06/22/15	55.61	54.59	
5,576.16				09/30/15	56.07	55.05	

TW4-3 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-4

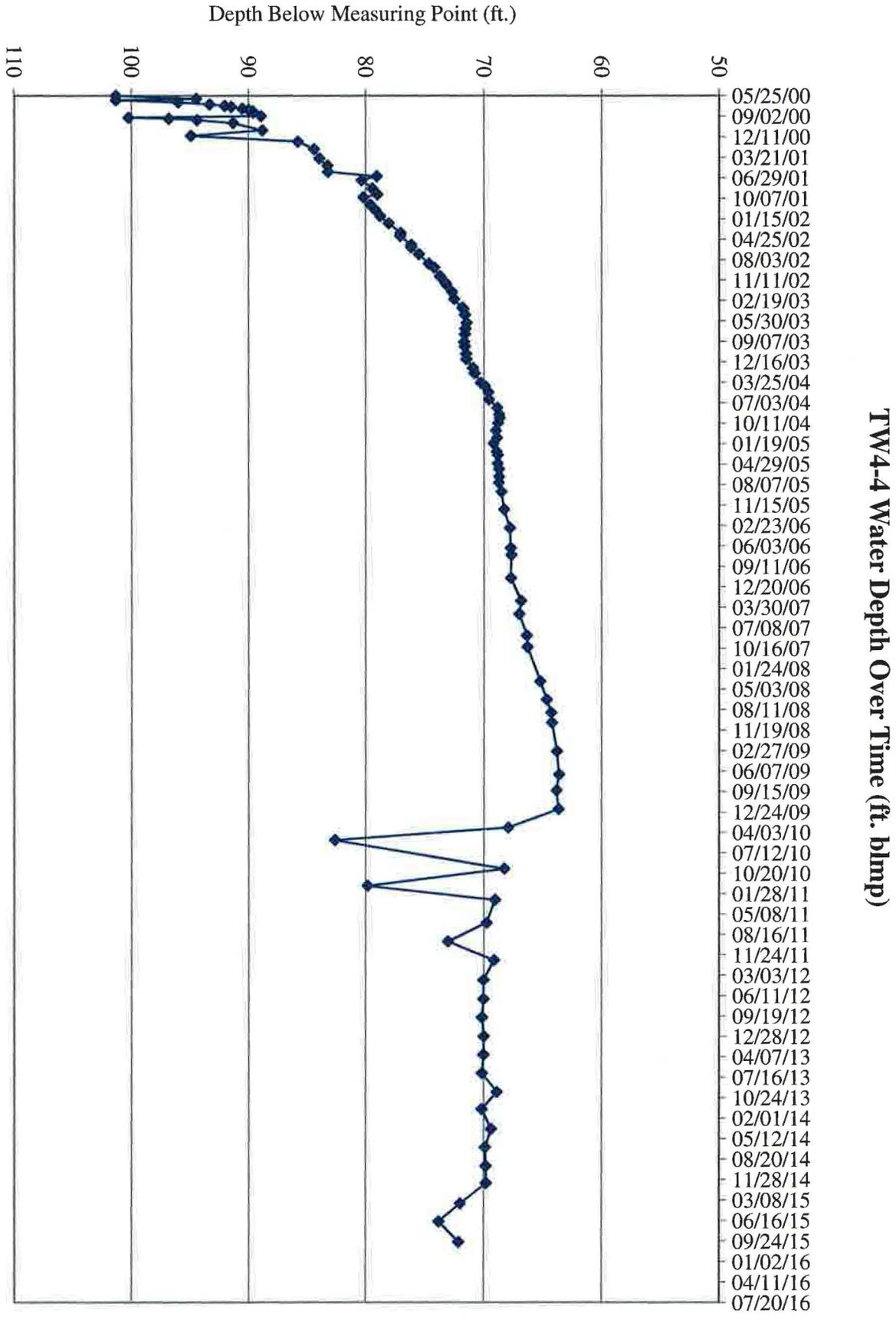
Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,612.301	5,613.485	1.184				114.5
5,512.145				05/25/00	101.34	100.16	
5,518.985				06/09/00	94.50	93.32	
5,512.145				06/16/00	101.34	100.16	
5,517.465				06/26/00	96.02	94.84	
5,520.145				07/06/00	93.34	92.16	
5,521.435				07/13/00	92.05	90.87	
5,522.005				07/18/00	91.48	90.30	
5,522.945				07/27/00	90.54	89.36	
5,523.485				08/02/00	90.00	88.82	
5,523.845				08/09/00	89.64	88.46	
5,523.885				08/15/00	89.60	88.42	
5,524.555				09/01/00	88.93	87.75	
5,513.235				09/08/00	100.25	99.07	
5,516.665				09/13/00	96.82	95.64	
5,519.085				09/20/00	94.40	93.22	
5,522.165				10/05/00	91.32	90.14	
5,524.665				11/09/00	88.82	87.64	
5,518.545				12/06/00	94.94	93.76	
5,527.695				01/03/01	85.79	84.61	
5,529.085				02/09/01	84.40	83.22	
5,529.535				03/27/01	83.95	82.77	
5,530.235				04/30/01	83.25	82.07	
5,530.265				05/31/01	83.22	82.04	
5,534.405				06/22/01	79.08	77.90	
5,533.145				07/10/01	80.34	79.16	
5,534.035				08/20/01	79.45	78.27	
5,534.465				09/19/01	79.02	77.84	
5,533.285				10/02/01	80.20	79.02	
5,533.865				11/08/01	79.62	78.44	
5,534.275				12/03/01	79.21	78.03	
5,534.715				01/03/02	78.77	77.59	
5,535.435				02/06/02	78.05	76.87	
5,536.445				03/26/02	77.04	75.86	
5,536.405				04/09/02	77.08	75.90	
5,537.335				05/23/02	76.15	74.97	
5,537.325				06/05/02	76.16	74.98	
5,537.975				07/08/02	75.51	74.33	
5,538.825				08/23/02	74.66	73.48	
5,539.275				09/11/02	74.21	73.03	
5,539.765				10/23/02	73.72	72.54	
5,540.205				11/22/02	73.28	72.10	
5,540.295				12/03/02	73.19	72.01	
5,540.795				01/09/03	72.69	71.51	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-4**

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,612.301	5,613.485	1.184				114.5
5,540.985				02/12/03	72.50	71.32	
5,541.675				03/26/03	71.81	70.63	
5,541.765				04/02/03	71.72	70.54	
5,541.885				05/01/03	71.60	70.42	
5,542.025				06/09/03	71.46	70.28	
5,541.925				07/07/03	71.56	70.38	
5,541.885				08/04/03	71.60	70.42	
5,541.825				09/11/03	71.66	70.48	
5,541.885				10/02/03	71.60	70.42	
5,541.995				11/07/03	71.49	70.31	
5,542.005				12/03/03	71.48	70.30	
5,542.555				01/15/04	70.93	69.75	
5,542.705				02/10/04	70.78	69.60	
5,543.225				03/28/04	70.26	69.08	
5,543.555				04/12/04	69.93	68.75	
5,543.865				05/13/04	69.62	68.44	
5,543.915				06/18/04	69.57	68.39	
5,544.655				07/28/04	68.83	67.65	
5,544.795				08/30/04	68.69	67.51	
5,544.845				09/16/04	68.64	67.46	
5,544.705				10/11/04	68.78	67.60	
5,544.525				11/16/04	68.96	67.78	
5,544.625				12/22/04	68.86	67.68	
5,544.305				01/18/05	69.18	68.00	
5,544.585				02/28/05	68.90	67.72	
5,544.685				03/15/05	68.80	67.62	
5,544.675				04/26/05	68.81	67.63	
5,544.785				05/24/05	68.70	67.52	
5,544.795				06/30/05	68.69	67.51	
5,544.775				07/29/05	68.71	67.53	
5,545.005				09/12/05	68.48	67.30	
5,545.225				12/07/05	68.26	67.08	
5,545.735				03/08/06	67.75	66.57	
5,545.785				06/14/06	67.70	66.52	
5,545.855				07/18/06	67.63	66.45	
5,545.805				11/07/06	67.68	66.50	
5546.675				02/27/07	66.81	65.63	
5,546.535				05/02/07	66.95	65.77	
5,547.155				08/15/07	66.33	65.15	
5,547.215				10/10/07	66.27	65.09	
5,548.305				03/26/08	65.18	64.00	
5,548.865				06/24/08	64.62	63.44	
5,549.235				08/26/08	64.25	63.07	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-4**

Water Elevation (z)	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
	5,612.301	5,613.485	1.184				114.5
5,549.305				10/14/08	64.18	63.00	
5,549.725				03/03/09	63.76	62.58	
5,549.905				06/24/09	63.58	62.40	
5,549.695				09/10/09	63.79	62.61	
5,549.865				12/11/09	63.62	62.44	
5,545.60				03/11/10	67.89	66.71	
5,530.88				05/11/10	82.61	81.43	
5,545.24				09/29/10	68.25	67.07	
5,533.66				12/21/10	79.83	78.65	
5,544.44				02/28/11	69.05	67.87	
5,543.73				06/21/11	69.76	68.58	
5,540.48				09/20/11	73.01	71.83	
5,544.36				12/21/11	69.13	67.95	
5,543.48				03/27/12	70.01	68.83	
5,543.49				06/28/12	70.00	68.82	
5,543.36				09/27/12	70.13	68.95	
5,543.51				12/28/12	69.98	68.80	
5,543.49				03/28/13	70.00	68.82	
5,543.36				06/27/13	70.13	68.95	
5,544.59				09/27/13	68.90	67.72	
5,543.33				12/20/13	70.16	68.98	
5,544.11				03/27/14	69.38	68.20	
5,543.61				06/25/14	69.88	68.70	
5,543.67				09/25/14	69.82	68.64	
5,543.69				12/17/14	69.80	68.62	
5,541.49				03/26/15	72.00	70.82	
5,539.67				06/22/15	73.82	72.64	
5,541.35				09/30/15	72.14	70.96	



**Water Levels and Data over Time
White Mesa Mill - Well TW4-5**

Water Elevation (z)	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
	5,638.75	5,640.70	1.95				121.75
5,579.30				01/02/00	61.40	59.45	
5,579.60				01/10/00	61.10	59.15	
5,579.35				01/17/00	61.35	59.40	
5,579.60				01/24/00	61.10	59.15	
5,579.50				02/01/00	61.20	59.25	
5,579.50				02/07/00	61.20	59.25	
5,579.90				02/14/00	60.80	58.85	
5,579.90				02/23/00	60.80	58.85	
5,580.20				03/01/00	60.50	58.55	
5,580.00				03/08/00	60.70	58.75	
5,580.04				03/15/00	60.66	58.71	
5,580.70				03/20/00	60.00	58.05	
5,580.30				03/29/00	60.40	58.45	
5,580.00				04/04/00	60.70	58.75	
5,580.20				04/13/00	60.50	58.55	
5,580.40				04/21/00	60.30	58.35	
5,580.50				04/28/00	60.20	58.25	
5,580.50				05/01/00	60.20	58.25	
5,580.90				05/11/00	59.80	57.85	
5,580.50				05/15/00	60.20	58.25	
5,580.75				05/25/00	59.95	58.00	
5,580.80				06/09/00	59.90	57.95	
5,580.92				06/16/00	59.78	57.83	
5,580.80				06/26/00	59.90	57.95	
5,580.90				07/06/00	59.80	57.85	
5,581.05				07/13/00	59.65	57.70	
5,580.90				07/18/00	59.80	57.85	
5,581.05				07/27/00	59.65	57.70	
5,581.06				08/02/00	59.64	57.69	
5,581.08				08/09/00	59.62	57.67	
5,581.07				08/16/00	59.63	57.68	
5,581.25				08/31/00	59.45	57.50	
5,581.32				09/08/00	59.38	57.43	
5,581.34				09/13/00	59.36	57.41	
5,581.41				09/20/00	59.29	57.34	
5,581.37				10/05/00	59.33	57.38	
5,581.66				11/09/00	59.04	57.09	
5,581.63				12/06/00	59.07	57.12	
5,581.92				01/03/01	58.78	56.83	
5,582.20				02/09/01	58.50	56.55	
5,582.54				03/28/01	58.16	56.21	
5,582.72				04/30/01	57.98	56.03	
5,582.72				05/31/01	57.98	56.03	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-5**

Water Elevation (z)	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
	5,638.75	5,640.70	1.95				121.75
5,582.81				06/22/01	57.89	55.94	
5,582.92				07/10/01	57.78	55.83	
5,583.17				08/20/01	57.53	55.58	
5,583.28				09/19/01	57.42	55.47	
5,583.36				10/02/01	57.34	55.39	
5,583.49				11/08/01	57.21	55.26	
5,583.84				12/03/01	56.86	54.91	
5,583.79				01/03/02	56.91	54.96	
5,583.96				02/06/02	56.74	54.79	
5,584.39				03/26/02	56.31	54.36	
5,584.12				04/09/02	56.58	54.63	
5,584.55				05/23/02	56.15	54.20	
5,584.42				06/05/02	56.28	54.33	
5,583.65				07/08/02	57.05	55.10	
5,584.90				08/23/02	55.80	53.85	
5,585.02				09/11/02	55.68	53.73	
5,585.20				10/23/02	55.50	53.55	
5,585.15				11/22/02	55.55	53.60	
5,585.42				12/03/02	55.28	53.33	
5,585.65				01/09/03	55.05	53.10	
5,585.65				02/12/03	55.05	53.10	
5,585.92				03/26/03	54.78	52.83	
5,586.22				04/02/03	54.48	52.53	
5,586.01				05/01/03	54.69	52.74	
5,584.81				06/09/03	55.89	53.94	
5,584.34				07/07/03	56.36	54.41	
5,584.40				08/04/03	56.30	54.35	
5,583.88				09/11/03	56.82	54.87	
5,583.57				10/02/03	57.13	55.18	
5,583.39				11/07/03	57.31	55.36	
5,583.97				12/03/03	56.73	54.78	
5,585.28				01/15/04	55.42	53.47	
5,585.50				02/10/04	55.20	53.25	
5,585.87				03/28/04	54.83	52.88	
5,586.20				04/12/04	54.50	52.55	
5,586.45				05/13/04	54.25	52.30	
5,586.50				06/18/04	54.20	52.25	
5,587.13				07/28/04	53.57	51.62	
5,586.22				08/30/04	54.48	52.53	
5,585.69				09/16/04	55.01	53.06	
5,585.17				10/11/04	55.53	53.58	
5,584.64				11/16/04	56.06	54.11	
5,584.77				12/22/04	55.93	53.98	

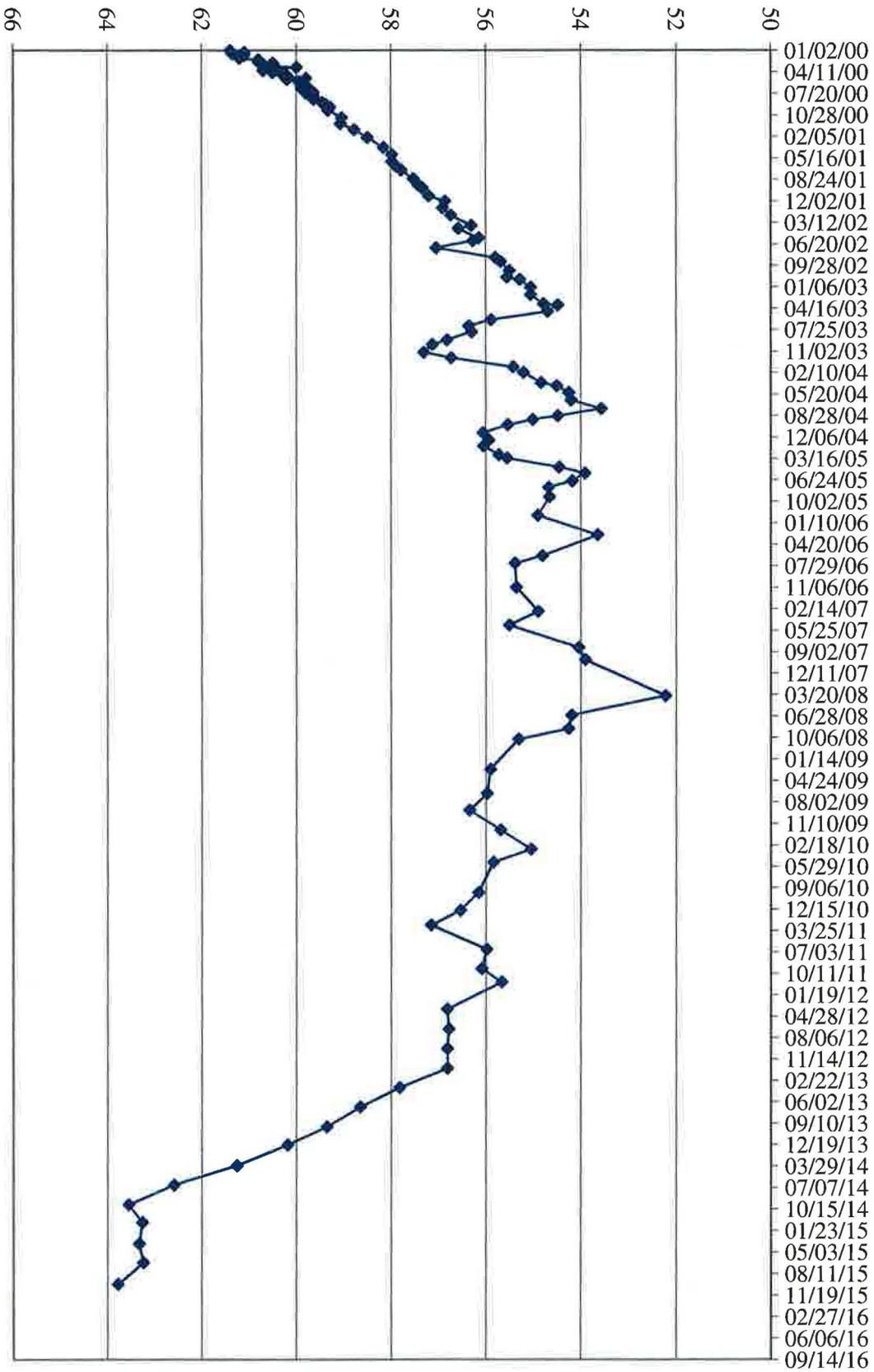
**Water Levels and Data over Time
White Mesa Mill - Well TW4-5**

Water Elevation (z)	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
	5,638.75	5,640.70	1.95				121.75
5,584.65				01/18/05	56.05	54.10	
5,584.98				02/28/05	55.72	53.77	
5,585.15				03/15/05	55.55	53.60	
5,586.25				04/26/05	54.45	52.50	
5,586.79				05/24/05	53.91	51.96	
5,586.52				06/30/05	54.18	52.23	
5,586.03				07/29/05	54.67	52.72	
5,586.05				09/12/05	54.65	52.70	
5,585.80				12/07/05	54.90	52.95	
5,587.06				03/08/06	53.64	51.69	
5,585.90				06/13/06	54.80	52.85	
5,585.32				07/18/06	55.38	53.43	
5,585.35				11/07/06	55.35	53.40	
5,585.81				02/27/07	54.89	52.94	
5,585.20				05/02/07	55.50	53.55	
5,586.66				08/14/07	54.04	52.09	
5,586.80				10/10/07	53.90	51.95	
5,588.48				03/26/08	52.22	50.27	
5,586.51				06/24/08	54.19	52.24	
5,586.45				08/26/08	54.25	52.30	
5,585.40				10/14/08	55.3	53.35	
5,584.80				03/03/09	55.9	53.95	
5,584.73				06/24/09	55.97	54.02	
5,584.36				09/10/09	56.34	54.39	
5,585.02				12/11/09	55.68	53.73	
5,585.66				03/11/10	55.04	53.09	
5,584.86				05/11/10	55.84	53.89	
5,584.55				09/29/10	56.15	54.20	
5,584.17				12/21/10	56.53	54.58	
5,583.55				02/28/11	57.15	55.20	
5,584.72				06/21/11	55.98	54.03	
5,584.62				09/20/11	56.08	54.13	
5,585.04				11/21/11	55.66	53.71	
5,583.89				03/27/12	56.81	54.86	
5,583.92				06/28/12	56.78	54.83	
5,583.89				09/27/12	56.81	54.86	
5,583.89				12/28/12	56.81	54.86	
5,582.88				03/28/13	57.82	55.87	
5,582.05				06/27/13	58.65	56.70	
5,581.35				09/27/13	59.35	57.40	
5,580.52				12/20/13	60.18	58.23	
5,579.44				03/27/14	61.26	59.31	
5,578.11				06/25/14	62.59	60.64	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-5**

Water Elevation (z)	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
	5,638.75	5,640.70	1.95				121.75
5,577.15				09/25/14	63.55	61.60	
5,577.44				12/17/14	63.26	61.31	
5,577.37				03/26/15	63.33	61.38	
5,577.46				06/22/15	63.24	61.29	
5,576.92				09/30/15	63.78	61.83	

Depth Below Measuring Point (ft.)



TW4-5 Water Depth Over Time (ft. blmp)

**Water Levels and Data over Time
White Mesa Mill - Well TW4-6**

Water Elevation (z)	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 (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,522.28				05/25/00	86.50	85.05	
5,521.51				06/09/00	87.27	85.82	
5,522.35				06/16/00	86.43	84.98	
5,522.14				06/26/00	86.64	85.19	
5,522.25				07/06/00	86.53	85.08	
5,522.13				07/13/00	86.65	85.20	
5,522.17				07/18/00	86.61	85.16	
5,522.26				07/25/00	86.52	85.07	
5,522.31				08/02/00	86.47	85.02	
5,522.33				08/09/00	86.45	85.00	
5,522.35				08/15/00	86.43	84.98	
5,522.40				08/31/00	86.38	84.93	
5,522.40				09/08/00	86.38	84.93	
5,522.45				09/13/00	86.33	84.88	
5,522.53				09/20/00	86.25	84.80	
5,522.39				10/05/00	86.39	84.94	
5,522.42				11/09/00	86.36	84.91	
5,522.29				12/06/00	86.49	85.04	
5,522.63				01/03/01	86.15	84.70	
5,522.72				02/09/01	86.06	84.61	
5,522.90				03/26/01	85.88	84.43	
5,522.70				04/30/01	86.08	84.63	
5,522.89				05/31/01	85.89	84.44	
5,522.88				06/20/01	85.90	84.45	
5,522.96				07/10/01	85.82	84.37	
5,523.10				08/20/01	85.68	84.23	
5,523.23				09/19/01	85.55	84.10	
5,523.21				10/02/01	85.57	84.12	
5,523.25				11/08/01	85.53	84.08	
5,523.46				12/03/01	85.32	83.87	
5,523.36				01/03/02	85.42	83.97	
5,523.50				02/06/02	85.28	83.83	
5,523.94				03/26/02	84.84	83.39	
5,523.75				04/09/02	85.03	83.58	
5,524.23				05/23/02	84.55	83.10	
5,523.98				06/05/02	84.80	83.35	
5,524.31				07/08/02	84.47	83.02	
5,524.36				08/23/02	84.42	82.97	
5,524.49				09/11/02	84.29	82.84	
5,524.71				10/23/02	84.07	82.62	
5,524.60				11/22/02	84.18	82.73	
5,524.94				12/03/02	83.84	82.39	
5,525.10				01/09/03	83.68	82.23	

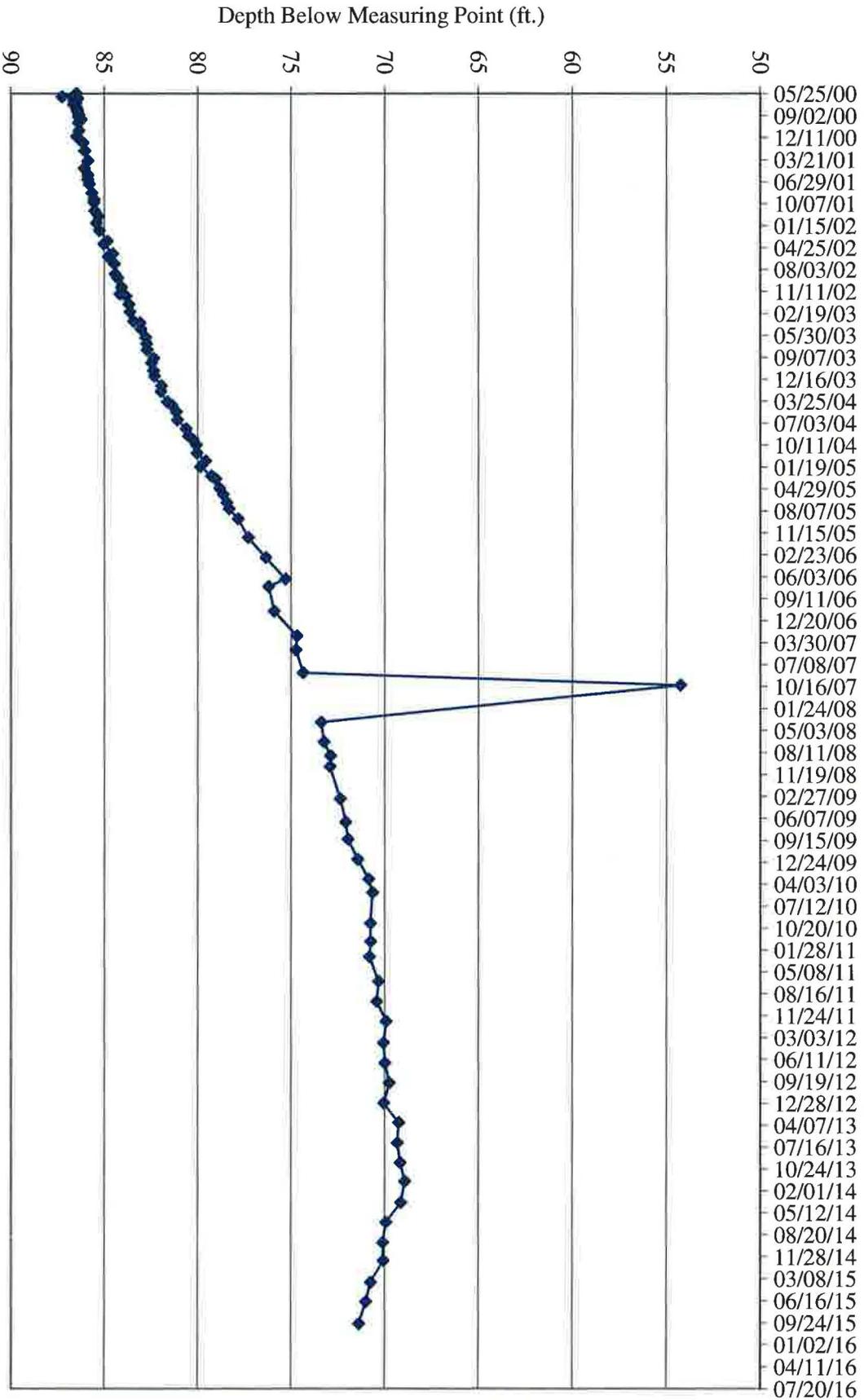
**Water Levels and Data over Time
White Mesa Mill - Well TW4-6**

Water Elevation (z)	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 (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,525.15				02/12/03	83.63	82.18	
5,525.35				03/26/03	83.43	81.98	
5,525.68				04/02/03	83.10	81.65	
5,525.74				05/01/03	83.04	81.59	
5,525.98				06/09/03	82.80	81.35	
5,526.04				07/07/03	82.74	81.29	
5,526.07				08/04/03	82.71	81.26	
5,526.42				09/11/03	82.36	80.91	
5,526.30				10/02/03	82.48	81.03	
5,526.41				11/07/03	82.37	80.92	
5,526.46				12/03/03	82.32	80.87	
5,526.83				01/15/04	81.95	80.50	
5,526.81				02/10/04	81.97	80.52	
5,527.14				03/28/04	81.64	80.19	
5,527.39				04/12/04	81.39	79.94	
5,527.64				05/13/04	81.14	79.69	
5,527.70				06/18/04	81.08	79.63	
5,528.16				07/28/04	80.62	79.17	
5,528.30				08/30/04	80.48	79.03	
5,528.52				09/16/04	80.26	78.81	
5,528.71				10/11/04	80.07	78.62	
5,528.74				11/16/04	80.04	78.59	
5,529.20				12/22/04	79.58	78.13	
5,528.92				01/18/05	79.86	78.41	
5,529.51				02/28/05	79.27	77.82	
5,529.74				03/15/05	79.04	77.59	
5,529.96				04/26/05	78.82	77.37	
5,530.15				05/24/05	78.63	77.18	
5,530.35				06/30/05	78.43	76.98	
5,530.47				07/29/05	78.31	76.86	
5,530.95				09/12/05	77.83	76.38	
5,531.50				12/07/05	77.28	75.83	
5,532.43				03/08/06	76.35	74.90	
5,533.49				06/13/06	75.29	73.84	
5,532.58				07/18/06	76.20	74.75	
5,532.88				11/07/06	75.90	74.45	
5,534.09				02/27/07	74.69	73.24	
5,534.04				05/02/07	74.74	73.29	
5,534.43				08/14/07	74.35	72.90	
5,554.54				10/10/07	54.24	52.79	
5,535.40				03/26/08	73.38	71.93	
5,535.55				06/24/08	73.23	71.78	
5,535.90				08/26/08	72.88	71.43	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-6**

Water Elevation (z)	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 (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,535.87				10/14/08	72.91	71.46	
5,536.42				03/10/09	72.36	70.91	
5,536.71				06/24/09	72.07	70.62	
5,536.83				09/10/09	71.95	70.50	
5,537.35				12/11/09	71.43	69.98	
5,537.93				03/11/10	70.85	69.40	
5,538.14				05/11/10	70.64	69.19	
5,538.03				09/29/10	70.75	69.30	
5,538.04				12/21/10	70.74	69.29	
5,537.98				02/28/11	70.8	69.35	
5,538.46				06/21/11	70.32	68.87	
5,538.37				09/20/11	70.41	68.96	
5,538.87				12/21/11	69.91	68.46	
5,538.73				03/27/12	70.05	68.60	
5,538.80				06/28/12	69.98	68.53	
5,539.04				09/27/12	69.74	68.29	
5,538.74				12/28/12	70.04	68.59	
5,539.53				03/28/13	69.25	67.80	
5,539.46				06/27/13	69.32	67.87	
5,539.62				09/27/13	69.16	67.71	
5,539.85				12/20/13	68.93	67.48	
5,539.65				03/27/14	69.13	67.68	
5,538.85				06/25/14	69.93	68.48	
5,538.69				09/25/14	70.09	68.64	
5,538.71				12/17/14	70.07	68.62	
5,538.03				03/26/15	70.75	69.30	
5,537.78				06/22/15	71.00	69.55	
5,537.40				09/30/15	71.38	69.93	

TW4-6 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-7**

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 (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,552.37				11/29/99	68.70	67.50	
5,553.57				01/02/00	67.50	66.30	
5,553.87				01/10/00	67.20	66.00	
5,553.72				01/17/00	67.35	66.15	
5,553.97				01/24/00	67.10	65.90	
5,553.87				02/01/00	67.20	66.00	
5,553.87				02/07/00	67.20	66.00	
5,554.17				02/14/00	66.90	65.70	
5,554.27				02/23/00	66.80	65.60	
5,554.37				03/01/00	66.70	65.50	
5,554.37				03/08/00	66.70	65.50	
5,554.27				03/15/00	66.80	65.60	
5,554.77				03/20/00	66.30	65.10	
5,554.57				03/29/00	66.50	65.30	
5,554.27				04/04/00	66.80	65.60	
5,554.57				04/13/00	66.50	65.30	
5,554.77				04/21/00	66.30	65.10	
5,554.87				04/28/00	66.20	65.00	
5,554.87				05/01/00	66.20	65.00	
5,555.27				05/11/00	65.80	64.60	
5,554.97				05/15/00	66.10	64.90	
5,555.27				05/25/00	65.80	64.60	
5,555.33				06/09/00	65.74	64.54	
5,555.45				06/16/00	65.62	64.42	
5,555.22				06/26/00	65.85	64.65	
5,555.45				07/06/00	65.62	64.42	
5,555.40				07/13/00	65.67	64.47	
5,555.45				07/18/00	65.62	64.42	
5,555.59				07/27/00	65.48	64.28	
5,555.65				08/02/00	65.42	64.22	
5,555.70				08/09/00	65.37	64.17	
5,555.74				08/16/00	65.33	64.13	
5,555.96				08/31/00	65.11	63.91	
5,555.87				09/08/00	65.20	64.00	
5,555.95				09/13/00	65.12	63.92	
5,556.05				09/20/00	65.02	63.82	
5,556.06				10/05/00	65.01	63.81	
5,556.17				10/12/00	64.90	63.70	
5,556.20				10/19/00	64.87	63.67	
5,556.22				10/23/00	64.85	63.65	
5,556.36				11/09/00	64.71	63.51	
5,556.42				11/14/00	64.65	63.45	
5,556.45				11/30/00	64.62	63.42	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-7**

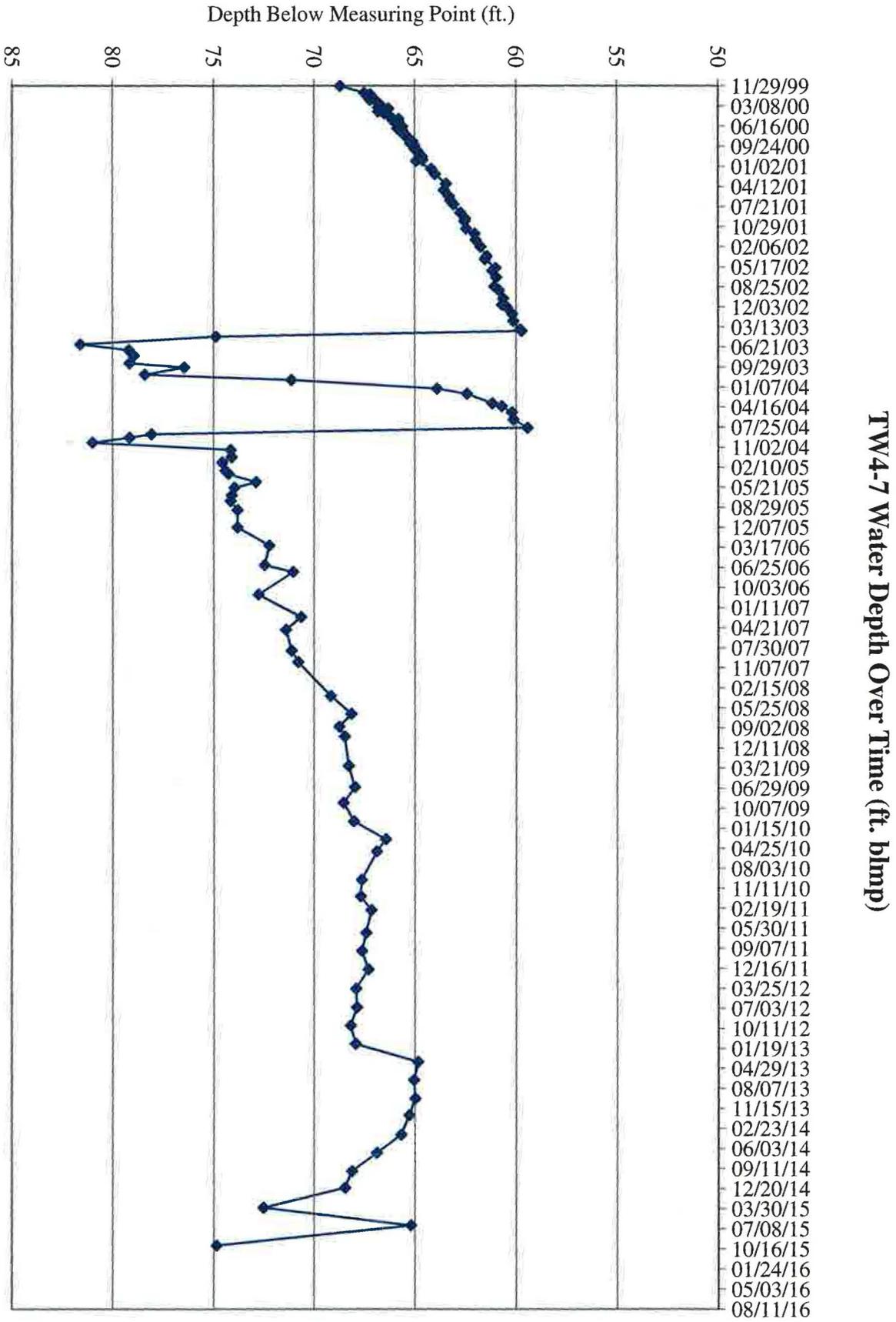
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,556.15				12/06/00	64.92	63.72	
5,556.89				01/14/01	64.18	62.98	
5,557.07				02/09/01	64.00	62.80	
5,557.62				03/29/01	63.45	62.25	
5,557.51				04/30/01	63.56	62.36	
5,557.77				05/31/01	63.30	62.10	
5,557.84				06/21/01	63.23	62.03	
5,557.98				07/10/01	63.09	61.89	
5,558.33				08/20/01	62.74	61.54	
5,558.57				09/19/01	62.50	61.30	
5,558.53				10/02/01	62.54	61.34	
5,558.62				11/08/01	62.45	61.25	
5,559.03				12/03/01	62.04	60.84	
5,559.08				01/03/02	61.99	60.79	
5,559.32				02/06/02	61.75	60.55	
5,559.63				03/26/02	61.44	60.24	
5,559.55				04/09/02	61.52	60.32	
5,560.06				05/23/02	61.01	59.81	
5,559.91				06/05/02	61.16	59.96	
5,560.09				07/08/02	60.98	59.78	
5,560.01				08/23/02	61.06	59.86	
5,560.23				09/11/02	60.84	59.64	
5,560.43				10/23/02	60.64	59.44	
5,560.39				11/22/02	60.68	59.48	
5,560.61				12/03/02	60.46	59.26	
5,560.89				01/09/03	60.18	58.98	
5,560.94				02/12/03	60.13	58.93	
5,561.28				03/26/03	59.79	58.59	
5,561.35				04/02/03	59.72	58.52	
5,546.20				05/01/03	74.87	73.67	
5,539.47				06/09/03	81.60	80.40	
5,541.87				07/07/03	79.20	78.00	
5,542.12				08/04/03	78.95	77.75	
5,541.91				09/11/03	79.16	77.96	
5,544.62				10/02/03	76.45	75.25	
5,542.67				11/07/03	78.40	77.20	
5,549.96				12/03/03	71.11	69.91	
5,557.17				01/15/04	63.90	62.70	
5,558.65				02/10/04	62.42	61.22	
5,559.90				03/28/04	61.17	59.97	
5,560.36				04/12/04	60.71	59.51	
5,560.87				05/13/04	60.20	59.00	
5,560.95				06/18/04	60.12	58.92	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-7**

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 (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,561.64				07/28/04	59.43	58.23	
5,543.00				08/30/04	78.07	76.87	
5,541.91				09/16/04	79.16	77.96	
5,540.08				10/11/04	80.99	79.79	
5,546.92				11/16/04	74.15	72.95	
5,546.97				12/22/04	74.10	72.90	
5,546.51				01/18/05	74.56	73.36	
5,546.66				02/28/05	74.41	73.21	
5,546.81				03/15/05	74.26	73.06	
5,548.19				04/26/05	72.88	71.68	
5,547.11				05/24/05	73.96	72.76	
5,546.98				06/30/05	74.09	72.89	
5,546.92				07/29/05	74.15	72.95	
5,547.26				09/12/05	73.81	72.61	
5,547.26				12/07/05	73.81	72.61	
5,548.86				03/08/06	72.21	71.01	
5,548.62				06/13/06	72.45	71.25	
5,550.04				07/18/06	71.03	69.83	
5,548.32				11/07/06	72.75	71.55	
5,550.44				02/27/07	70.63	69.43	
5,549.69				05/02/07	71.38	70.18	
5,549.97				08/14/07	71.10	69.90	
5,550.30				10/10/07	70.77	69.57	
5,551.92				03/26/08	69.15	67.95	
5,552.94				06/24/08	68.13	66.93	
5,552.34				08/26/08	68.73	67.53	
5,552.61				10/14/08	68.46	67.26	
5,552.81				03/10/09	68.26	67.06	
5,553.11				06/24/09	67.96	66.76	
5,552.55				09/10/09	68.52	67.32	
5,553.06				12/11/09	68.01	66.81	
5,554.64				03/11/10	66.43	65.23	
5,554.20				05/11/10	66.87	65.67	
5,553.45				09/29/10	67.62	66.42	
5,553.40				12/21/10	67.67	66.47	
5,553.93				02/28/11	67.14	65.94	
5,553.67				06/21/11	67.4	66.20	
5,553.46				09/20/11	67.61	66.41	
5,553.78				12/21/11	67.29	66.09	
5,553.17				03/27/12	67.90	66.70	
5,553.21				06/28/12	67.86	66.66	
5,552.90				09/27/12	68.17	66.97	
5,553.15				12/28/12	67.92	66.72	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-7**

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 (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,556.23				03/28/13	64.84	63.64	
5,556.04				06/27/13	65.03	63.83	
5,556.09				09/27/13	64.98	63.78	
5,555.80				12/20/13	65.27	64.07	
5,555.40				03/27/14	65.67	64.47	
5,554.20				06/25/14	66.87	65.67	
5,552.96				09/25/14	68.11	66.91	
5,552.62				12/17/14	68.45	67.25	
5,548.57				03/26/15	72.50	71.30	
5,555.88				06/22/15	65.19	63.99	
5,546.22				09/30/15	74.85	73.65	



**Water Levels and Data over Time
White Mesa Mill - Well TW4-8**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.00
5,546.40				11/29/99	75.00	70.40	
5,546.20				01/02/00	75.20	70.60	
5,546.50				01/10/00	74.90	70.30	
5,546.30				01/17/00	75.10	70.50	
5,546.60				01/24/00	74.80	70.20	
5,546.50				02/01/00	74.90	70.30	
5,546.50				02/07/00	74.90	70.30	
5,546.90				02/14/00	74.50	69.90	
5,546.95				02/23/00	74.45	69.85	
5,547.05				03/01/00	74.35	69.75	
5,547.05				03/08/00	74.35	69.75	
5,547.10				03/15/00	74.30	69.70	
5,547.50				03/20/00	73.90	69.30	
5,547.40				03/29/00	74.00	69.40	
5,547.20				04/04/00	74.20	69.60	
5,547.40				04/13/00	74.00	69.40	
5,547.60				04/21/00	73.80	69.20	
5,547.70				04/28/00	73.70	69.10	
5,547.70				05/01/00	73.70	69.10	
5,548.00				05/11/00	73.40	68.80	
5,547.70				05/15/00	73.70	69.10	
5,547.90				05/25/00	73.50	68.90	
5,547.90				06/09/00	73.50	68.90	
5,548.00				06/16/00	73.40	68.80	
5,547.87				06/26/00	73.53	68.93	
5,547.95				07/06/00	73.45	68.85	
5,547.96				07/13/00	73.44	68.84	
5,547.95				07/18/00	73.45	68.85	
5,548.11				07/27/00	73.29	68.69	
5,548.15				08/02/00	73.25	68.65	
5,548.17				08/09/00	73.23	68.63	
5,548.16				08/15/00	73.24	68.64	
5,548.40				08/31/00	73.00	68.40	
5,548.50				09/08/00	72.90	68.30	
5,548.62				09/13/00	72.78	68.18	
5,548.75				09/20/00	72.65	68.05	
5,548.76				10/05/00	72.64	68.04	
5,549.00				11/09/00	72.40	67.80	
5,548.85				12/06/00	72.55	67.95	
5,549.47				01/03/01	71.93	67.33	
5,549.89				02/09/01	71.51	66.91	
5,550.37				03/27/01	71.03	66.43	
5,550.50				04/30/01	70.90	66.30	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-8**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.00
5,550.68				05/31/01	70.72	66.12	
5,550.68				06/20/01	70.72	66.12	
5,551.02				07/10/01	70.38	65.78	
5,551.32				08/20/01	70.08	65.48	
5,551.49				09/19/01	69.91	65.31	
5,551.64				10/02/01	69.76	65.16	
5,551.81				11/08/01	69.59	64.99	
5,552.22				12/03/01	69.18	64.58	
5,552.16				01/03/02	69.24	64.64	
5,552.38				02/06/02	69.02	64.42	
5,552.85				03/26/02	68.55	63.95	
5,552.83				04/09/02	68.57	63.97	
5,553.20				05/23/02	68.20	63.60	
5,553.16				06/05/02	68.24	63.64	
5,553.32				07/08/02	68.08	63.48	
5,553.49				08/23/02	67.91	63.31	
5,553.69				09/11/02	67.71	63.11	
5,554.09				10/23/02	67.31	62.71	
5,554.02				11/22/02	67.38	62.78	
5,554.23				12/03/02	67.17	62.57	
5,554.43				01/09/03	66.97	62.37	
5,554.42				02/12/03	66.98	62.38	
5,554.71				03/26/03	66.69	62.09	
5,554.83				04/02/03	66.57	61.97	
5,552.21				05/01/03	69.19	64.59	
5,547.93				06/09/03	73.47	68.87	
5,546.97				07/07/03	74.43	69.83	
5,546.58				08/04/03	74.82	70.22	
5,546.24				09/11/03	75.16	70.56	
5,546.38				10/02/03	75.02	70.42	
5,546.40				11/07/03	75.00	70.40	
5,546.59				12/03/03	74.81	70.21	
5,551.29				01/15/04	70.11	65.51	
5,552.69				02/10/04	68.71	64.11	
5,554.06				03/28/04	67.34	62.74	
5,554.52				04/12/04	66.88	62.28	
5,555.06				05/13/04	66.34	61.74	
5,555.11				06/18/04	66.29	61.69	
5,555.88				07/28/04	65.52	60.92	
5,552.97				08/30/04	68.43	63.83	
5,550.65				09/16/04	70.75	66.15	
5,548.40				10/11/04	73.00	68.40	
5,548.28				11/16/04	73.12	68.52	

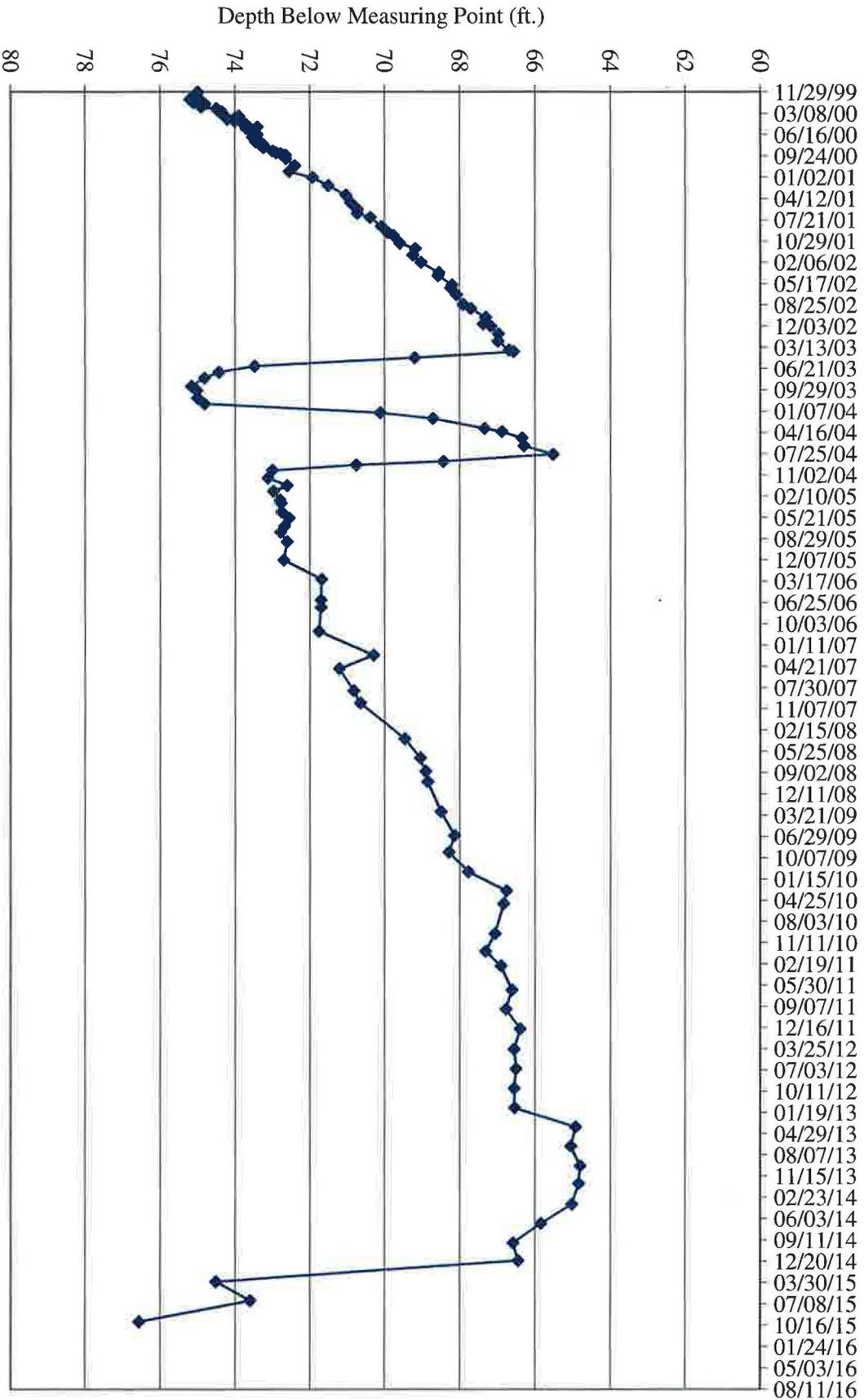
**Water Levels and Data over Time
White Mesa Mill - Well TW4-8**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.00
5,548.80				12/22/04	72.60	68.00	
5,548.43				01/18/05	72.97	68.37	
5,548.61				02/28/05	72.79	68.19	
5,548.64				03/15/05	72.76	68.16	
5,548.65				04/26/05	72.75	68.15	
5,548.85				05/24/05	72.55	67.95	
5,548.73				06/30/05	72.67	68.07	
5,548.62				07/29/05	72.78	68.18	
5,548.80				09/12/05	72.60	68.00	
5,548.71				12/07/05	72.69	68.09	
5,549.72				03/08/06	71.68	67.08	
5,549.70				06/13/06	71.70	67.10	
5,549.70				07/18/06	71.70	67.10	
5,549.65				11/07/06	71.75	67.15	
5,551.11				02/27/07	70.29	65.69	
5,550.20				05/02/07	71.20	66.60	
5,550.59				08/14/07	70.81	66.21	
5,550.76				10/10/07	70.64	66.04	
5,551.95				03/26/08	69.45	64.85	
5,552.36				06/24/08	69.04	64.44	
5,552.50				08/26/08	68.9	64.30	
5,552.56				10/14/08	68.84	64.24	
5,552.91				03/03/09	68.49	63.89	
5,553.27				06/24/09	68.13	63.53	
5,553.12				09/10/09	68.28	63.68	
5,553.63				12/11/09	67.77	63.17	
5,554.65				03/11/10	66.75	62.15	
5,554.57				05/11/10	66.83	62.23	
5,554.34				09/29/10	67.06	62.46	
5,554.09				12/21/10	67.31	62.71	
5,554.50				02/28/11	66.9	62.30	
5,554.79				06/21/11	66.61	62.01	
5,554.63				09/20/11	66.77	62.17	
5,555.01				12/21/11	66.39	61.79	
5,554.85				03/27/12	66.55	61.95	
5,554.90				06/28/12	66.50	61.90	
5,554.85				09/27/12	66.55	61.95	
5,554.86				12/28/12	66.54	61.94	
5,556.48				03/28/13	64.92	60.32	
5,556.35				06/27/13	65.05	60.45	
5,556.60				09/27/13	64.8	60.20	
5,556.56				12/20/13	64.84	60.24	
5,556.38				03/27/14	65.02	60.42	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-8**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.00
5,555.56				06/25/14	65.84	61.24	
5,554.82				09/25/14	66.58	61.98	
5,554.95				12/17/14	66.45	61.85	
5,546.89				03/26/15	74.51	69.91	
5,547.80				06/22/15	73.6	69.00	
5,544.84				09/30/15	76.56	71.96	

TW4-8 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-9**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,577.09				12/20/99	60.50	59.02	
5,577.09				01/02/00	60.50	59.02	
5,577.29				01/10/00	60.30	58.82	
5,577.09				01/17/00	60.50	59.02	
5,577.39				01/24/00	60.20	58.72	
5,577.29				02/01/00	60.30	58.82	
5,577.19				02/07/00	60.40	58.92	
5,577.69				02/14/00	59.90	58.42	
5,577.69				02/23/00	59.90	58.42	
5,577.79				03/01/00	59.80	58.32	
5,577.79				03/08/00	59.80	58.32	
5,577.89				03/15/00	59.70	58.22	
5,568.49				03/20/00	69.10	67.62	
5,578.14				03/29/00	59.45	57.97	
5,577.84				04/04/00	59.75	58.27	
5,578.04				04/13/00	59.55	58.07	
5,578.24				04/21/00	59.35	57.87	
5,578.39				04/28/00	59.20	57.72	
5,578.39				05/01/00	59.20	57.72	
5,578.79				05/11/00	58.80	57.32	
5,578.39				05/15/00	59.20	57.72	
5,578.79				05/25/00	58.80	57.32	
5,578.81				06/09/00	58.78	57.30	
5,578.89				06/16/00	58.70	57.22	
5,578.74				06/26/00	58.85	57.37	
5,578.86				07/06/00	58.73	57.25	
5,578.87				07/13/00	58.72	57.24	
5,578.84				07/18/00	58.75	57.27	
5,579.03				07/27/00	58.56	57.08	
5,579.03				08/02/00	58.56	57.08	
5,579.05				08/09/00	58.54	57.06	
5,579.04				08/15/00	58.55	57.07	
5,579.25				08/31/00	58.34	56.86	
5,579.35				09/08/00	58.24	56.76	
5,579.40				09/13/00	58.19	56.71	
5,579.46				09/20/00	58.13	56.65	
5,579.44				10/05/00	58.15	56.67	
5,579.79				11/09/00	57.80	56.32	
5,579.73				12/06/00	57.86	56.38	
5,580.01				01/03/01	57.58	56.10	
5,580.30				02/09/01	57.29	55.81	
5,580.66				03/27/01	56.93	55.45	
5,580.75				04/30/01	56.84	55.36	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-9**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,581.04				05/31/01	56.55	55.07	
5,581.12				06/21/01	56.47	54.99	
5,581.15				07/10/01	56.44	54.96	
5,581.51				08/20/01	56.08	54.60	
5,581.70				09/19/01	55.89	54.41	
5,581.61				10/02/01	55.98	54.50	
5,581.83				11/08/01	55.76	54.28	
5,582.17				12/03/01	55.42	53.94	
5,582.21				01/03/02	55.38	53.90	
5,582.57				02/06/02	55.02	53.54	
5,583.12				03/26/02	54.47	52.99	
5,582.77				04/09/02	54.82	53.34	
5,583.21				05/23/02	54.38	52.90	
5,582.94				06/05/02	54.65	53.17	
5,582.71				07/08/02	54.88	53.40	
5,583.67				08/23/02	53.92	52.44	
5,583.82				09/11/02	53.77	52.29	
5,584.01				10/23/02	53.58	52.10	
5,583.88				11/22/02	53.71	52.23	
5,583.81				12/03/02	53.78	52.30	
5,584.28				01/09/03	53.31	51.83	
5,584.41				02/12/03	53.18	51.70	
5,584.68				03/26/03	52.91	51.43	
5,584.49				04/02/03	53.10	51.62	
5,584.51				05/01/03	53.08	51.60	
5,583.59				06/09/03	54.00	52.52	
5,582.96				07/07/03	54.63	53.15	
5,582.98				08/04/03	54.61	53.13	
5,582.57				09/11/03	55.02	53.54	
5,582.25				10/02/03	55.34	53.86	
5,582.09				11/07/03	55.50	54.02	
5,582.48				12/03/03	55.11	53.63	
5,583.69				01/15/04	53.90	52.42	
5,583.89				02/10/04	53.70	52.22	
5,584.30				03/28/04	53.29	51.81	
5,584.59				04/12/04	53.00	51.52	
5,584.87				05/13/04	52.72	51.24	
5,584.96				06/18/04	52.63	51.15	
5,585.50				07/28/04	52.09	50.61	
5,584.81				08/30/04	52.78	51.30	
5,584.40				09/16/04	53.19	51.71	
5,583.91				10/11/04	53.68	52.20	
5,583.39				11/16/04	54.20	52.72	

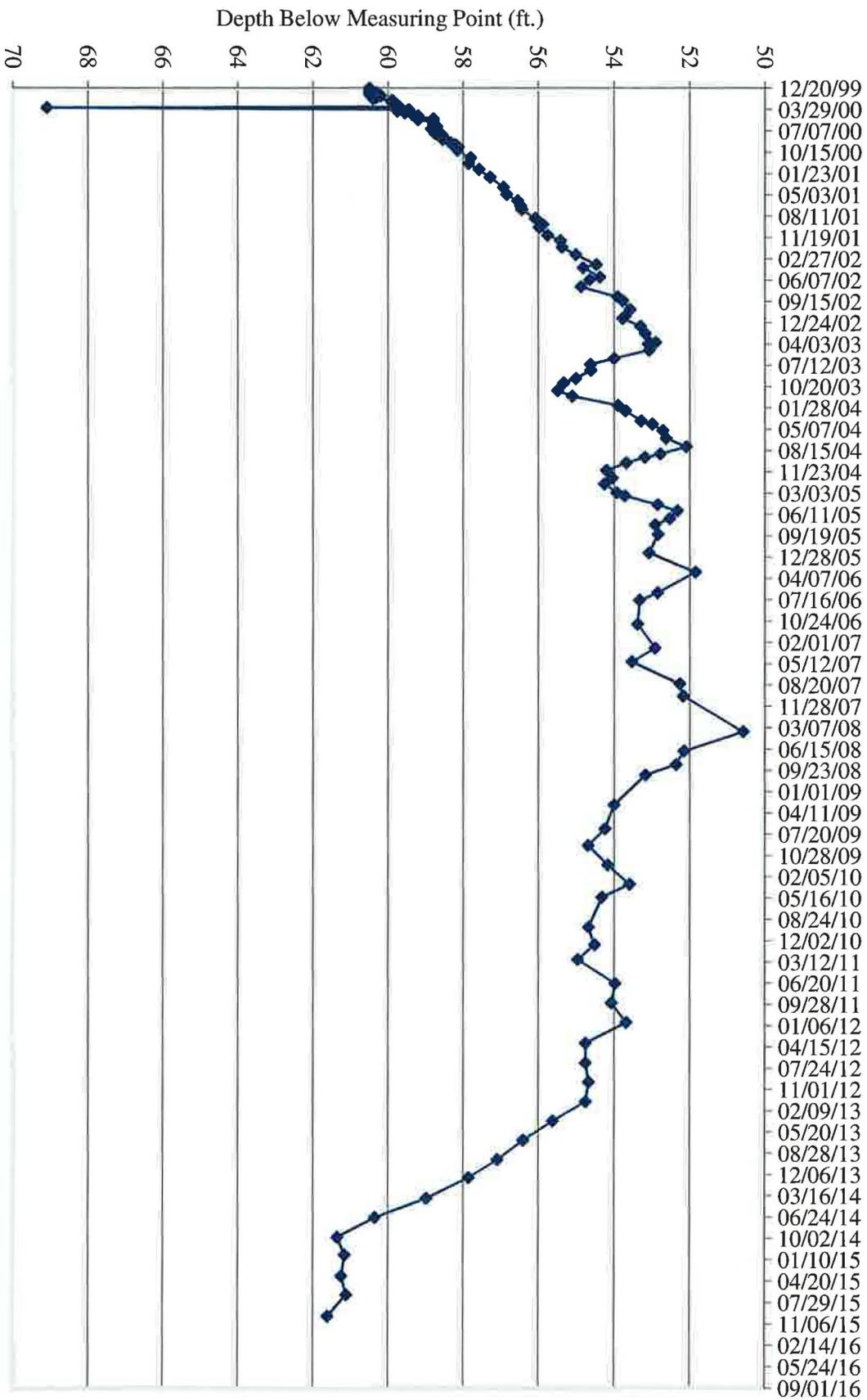
**Water Levels and Data over Time
White Mesa Mill - Well TW4-9**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,583.54				12/22/04	54.05	52.57	
5,583.34				01/18/05	54.25	52.77	
5,583.66				02/28/05	53.93	52.45	
5,583.87				03/15/05	53.72	52.24	
5,584.74				04/26/05	52.85	51.37	
5,585.26				05/24/05	52.33	50.85	
5,585.06				06/30/05	52.53	51.05	
5,584.67				07/29/05	52.92	51.44	
5,584.75				09/12/05	52.84	51.36	
5,584.51				12/07/05	53.08	51.60	
5,585.74				03/08/06	51.85	50.37	
5,584.74				06/13/06	52.85	51.37	
5,584.26				07/18/06	53.33	51.85	
5,584.21				11/07/06	53.38	51.90	
5,584.67				02/27/07	52.92	51.44	
5,584.06				05/02/07	53.53	52.05	
5,585.33				08/14/07	52.26	50.78	
5,585.42				10/10/07	52.17	50.69	
5,587.01				03/26/08	50.58	49.10	
5,585.44				06/24/08	52.15	50.67	
5,585.23				08/26/08	52.36	50.88	
5,584.42				10/14/08	53.17	51.69	
5,583.59				03/03/09	54.00	52.52	
5,583.35				06/24/09	54.24	52.76	
5,582.91				09/10/09	54.68	53.20	
5,583.43				12/11/09	54.16	52.68	
5,584.00				03/11/10	53.59	52.11	
5,583.27				05/11/10	54.32	52.84	
5,582.92				09/29/10	54.67	53.19	
5,583.08				12/21/10	54.51	53.03	
5,582.63				02/28/11	54.96	53.48	
5,583.62				06/21/11	53.97	52.49	
5,583.52				09/20/11	54.07	52.59	
5,583.91				12/21/11	53.68	52.20	
5,582.84				03/27/12	54.75	53.27	
5,582.84				06/28/12	54.75	53.27	
5,582.92				09/27/12	54.67	53.19	
5,582.84				12/28/12	54.75	53.27	
5,581.97				03/28/13	55.62	54.14	
5,581.19				06/27/13	56.40	54.92	
5,580.50				09/27/13	57.09	55.61	
5,579.73				12/20/13	57.86	56.38	
5,578.61				03/27/14	58.98	57.50	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-9**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,577.24				06/25/14	60.35	58.87	
5,576.24				09/25/14	61.35	59.87	
5,576.44				12/17/14	61.15	59.67	
5,576.35				03/26/15	61.24	59.76	
5,576.48				06/22/15	61.11	59.63	
5,575.98				09/30/15	61.61	60.13	

TW4-9 Water Depth Over Time (ft. blmp)



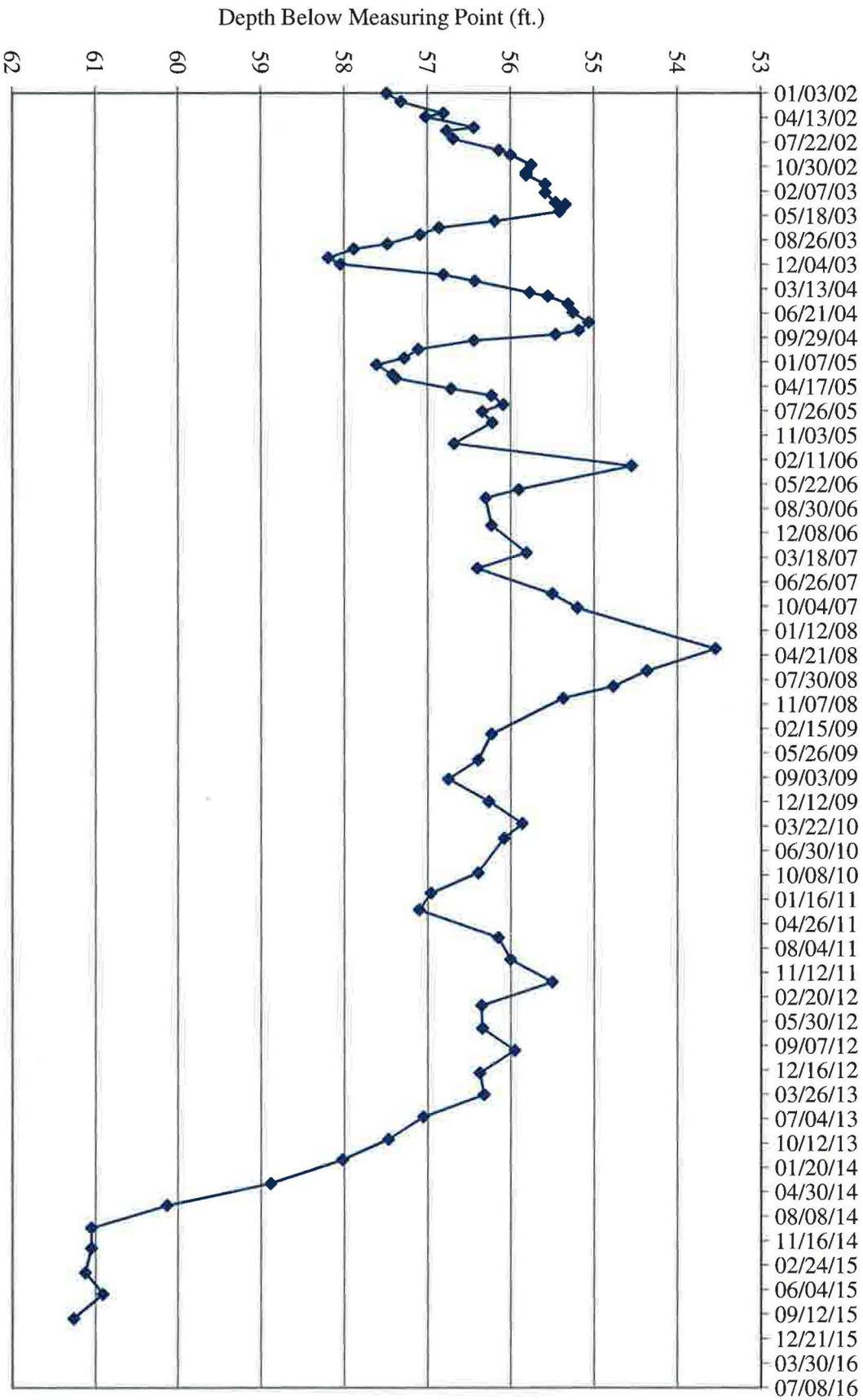
**Water Levels and Data over Time
White Mesa Mill - Well TW4-10**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured		Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	
	5,631.99	5,634.24	2.25				111
5,576.75				01/03/02	57.49	55.24	
5,576.92				02/06/02	57.32	55.07	
5,577.43				03/26/02	56.81	54.56	
5,577.22				04/09/02	57.02	54.77	
5,577.80				05/23/02	56.44	54.19	
5,577.47				06/05/02	56.77	54.52	
5,577.55				07/08/02	56.69	54.44	
5,578.10				08/23/02	56.14	53.89	
5,578.24				09/11/02	56.00	53.75	
5,578.49				10/23/02	55.75	53.50	
5,578.43				11/22/02	55.81	53.56	
5,578.43				12/03/02	55.81	53.56	
5,578.66				01/09/03	55.58	53.33	
5,578.66				02/12/03	55.58	53.33	
5,578.78				03/26/03	55.46	53.21	
5,578.90				04/02/03	55.34	53.09	
5,578.83				05/01/03	55.41	53.16	
5,578.05				06/09/03	56.19	53.94	
5,577.38				07/07/03	56.86	54.61	
5,577.15				08/04/03	57.09	54.84	
5,576.76				09/11/03	57.48	55.23	
5,576.36				10/02/03	57.88	55.63	
5,576.05				11/07/03	58.19	55.94	
5,576.20				12/03/03	58.04	55.79	
5,577.43				01/15/04	56.81	54.56	
5,577.81				02/10/04	56.43	54.18	
5,578.47				03/28/04	55.77	53.52	
5,578.69				04/12/04	55.55	53.30	
5,578.93				05/13/04	55.31	53.06	
5,578.99				06/18/04	55.25	53.00	
5,579.18				07/28/04	55.06	52.81	
5,579.06				08/30/04	55.18	52.93	
5,578.78				09/16/04	55.46	53.21	
5,577.80				10/11/04	56.44	54.19	
5,577.13				11/16/04	57.11	54.86	
5,576.96				12/22/04	57.28	55.03	
5,576.63				01/18/05	57.61	55.36	
5,576.82				02/28/05	57.42	55.17	
5,576.86				03/15/05	57.38	55.13	
5,577.52				04/26/05	56.72	54.47	
5,578.01				05/24/05	56.23	53.98	
5,578.15				06/30/05	56.09	53.84	
5,577.90				07/29/05	56.34	54.09	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-10**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured		Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	
	5,631.99	5,634.24	2.25				111
5,578.02				09/12/05	56.22	53.97	
5,577.56				12/07/05	56.68	54.43	
5,579.69				03/08/06	54.55	52.30	
5,578.34				06/13/06	55.90	53.65	
5,577.94				07/18/06	56.30	54.05	
5,578.01				11/07/06	56.23	53.98	
5578.43				02/27/07	55.81	53.56	
5,577.84				05/02/07	56.40	54.15	
5,578.74				08/14/07	55.50	53.25	
5,579.04				10/10/07	55.20	52.95	
5,580.69				03/26/08	53.55	51.30	
5,579.87				06/24/08	54.37	52.12	
5,579.47				08/26/08	54.77	52.52	
5,578.87				10/14/08	55.37	53.12	
5,578.01				03/10/09	56.23	53.98	
5,577.85				06/24/09	56.39	54.14	
5,577.49				09/10/09	56.75	54.50	
5,577.98				12/11/09	56.26	54.01	
5,578.38				03/11/10	55.86	53.61	
5,578.16				05/11/10	56.08	53.83	
5,577.85				09/29/10	56.39	54.14	
5,577.28				12/21/10	56.96	54.71	
5,577.14				02/28/11	57.1	54.85	
5,578.09				06/21/11	56.15	53.90	
5,578.24				09/20/11	56	53.75	
5,578.74				12/21/11	55.5	53.25	
5,577.89				03/27/12	56.35	54.10	
5,577.90				06/28/12	56.34	54.09	
5,578.29				09/27/12	55.95	53.70	
5,577.87				12/28/12	56.37	54.12	
5,577.92				03/28/13	56.32	54.07	
5,577.19				06/27/13	57.05	54.80	
5,576.77				09/27/13	57.47	55.22	
5,576.22				12/20/13	58.02	55.77	
5,575.36				03/27/14	58.88	56.63	
5,574.11				06/25/14	60.13	57.88	
5,573.19				09/25/14	61.05	58.80	
5,573.19				12/17/14	61.05	58.80	
5,573.12				03/26/15	61.12	58.87	
5,573.33				06/22/15	60.91	58.66	
5,572.98				09/30/15	61.26	59.01	

TW4-10 Water Depth Over Time (ft. blmp)



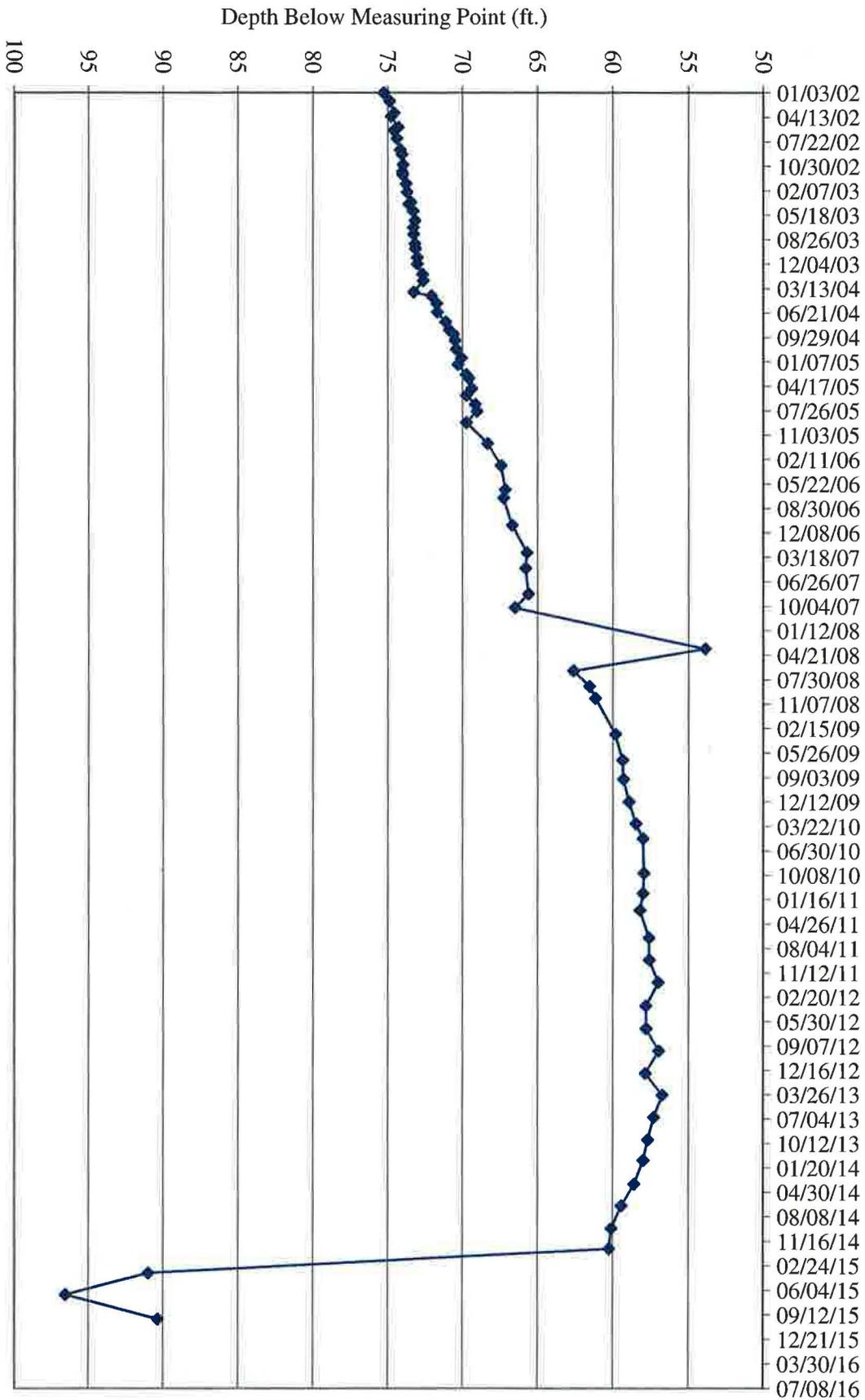
**Water Levels and Data over Time
White Mesa Mill - Well TW4-11**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				100
5,548.32				01/03/02	75.30	73.60	
5,548.73				02/06/02	74.89	73.19	
5,549.03				03/26/02	74.59	72.89	
5,548.84				04/09/02	74.78	73.08	
5,549.30				05/23/02	74.32	72.62	
5,549.01				06/05/02	74.61	72.91	
5,549.22				07/08/02	74.40	72.70	
5,549.44				08/23/02	74.18	72.48	
5,549.57				09/11/02	74.05	72.35	
5,549.64				10/23/02	73.98	72.28	
5,549.58				11/22/02	74.04	72.34	
5,549.62				12/03/02	74.00	72.30	
5,549.85				01/09/03	73.77	72.07	
5,549.91				02/12/03	73.71	72.01	
5,550.15				03/26/03	73.47	71.77	
5,550.01				04/02/03	73.61	71.91	
5,550.31				05/01/03	73.31	71.61	
5,550.44				06/09/03	73.18	71.48	
5,550.33				07/07/03	73.29	71.59	
5,550.35				08/04/03	73.27	71.57	
5,550.44				09/11/03	73.18	71.48	
5,550.47				10/02/03	73.15	71.45	
5,550.60				11/07/03	73.02	71.32	
5,550.60				12/03/03	73.02	71.32	
5,550.94				01/15/04	72.68	70.98	
5,551.00				02/10/04	72.62	70.92	
5,550.34				03/28/04	73.28	71.58	
5,551.54				04/12/04	72.08	70.38	
5,551.89				05/13/04	71.73	70.03	
5,551.94				06/18/04	71.68	69.98	
5,552.49				07/28/04	71.13	69.43	
5,552.74				08/30/04	70.88	69.18	
5,553.01				09/16/04	70.61	68.91	
5,553.11				10/11/04	70.51	68.81	
5,553.19				11/16/04	70.43	68.73	
5,553.53				12/22/04	70.09	68.39	
5,553.31				01/18/05	70.31	68.61	
5,553.84				02/28/05	69.78	68.08	
5,554.04				03/15/05	69.58	67.88	
5,554.23				04/26/05	69.39	67.69	
5,553.87				05/24/05	69.75	68.05	
5,554.46				06/30/05	69.16	67.46	
5,554.57				07/29/05	69.05	67.35	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-11**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				100
5,553.86				09/12/05	69.76	68.06	
5,555.30				12/07/05	68.32	66.62	
5,556.20				03/08/06	67.42	65.72	
5,556.48				06/14/06	67.14	65.44	
5,556.37				07/18/06	67.25	65.55	
5,556.94				11/07/06	66.68	64.98	
5557.92				02/27/07	65.70	64	
5,557.84				05/02/07	65.78	64.08	
5,558.02				08/15/07	65.60	63.90	
5,557.13				10/10/07	66.49	64.79	
5,569.74				03/26/08	53.88	52.18	
5,561.01				06/24/08	62.61	60.91	
5,562.07				08/26/08	61.55	59.85	
5,562.47				10/14/08	61.15	59.45	
5,563.80				03/10/09	59.82	58.12	
5,564.27				06/24/09	59.35	57.65	
5,564.32				09/10/09	59.30	57.60	
5,564.70				12/11/09	58.92	57.22	
5,565.14				03/11/10	58.48	56.78	
5,565.61				05/11/10	58.01	56.31	
5,565.67				09/29/10	57.95	56.25	
5,565.62				12/21/10	58.00	56.30	
5,565.42				02/28/11	58.20	56.50	
5,566.01				06/21/11	57.61	55.91	
5,566.03				09/20/11	57.59	55.89	
5,566.63				12/21/11	56.99	55.29	
5,565.81				03/27/12	57.81	56.11	
5,565.82				06/28/12	57.80	56.10	
5,566.66				09/27/12	56.96	55.26	
5,565.77				12/28/12	57.85	56.15	
5,566.89				03/28/13	56.73	55.03	
5,566.32				06/27/13	57.30	55.60	
5,565.92				09/27/13	57.70	56.00	
5,565.63				12/20/13	57.99	56.29	
5,565.03				03/27/14	58.59	56.89	
5,564.18				06/25/14	59.44	57.74	
5,563.52				09/25/14	60.10	58.40	
5,563.37				12/17/14	60.25	58.55	
5,532.62				03/26/15	91.00	89.30	
5,527.07				06/22/15	96.55	94.85	
5,533.27				09/30/15	90.35	88.65	

TW4-11 Water Depth Over Time (ft. blmp)



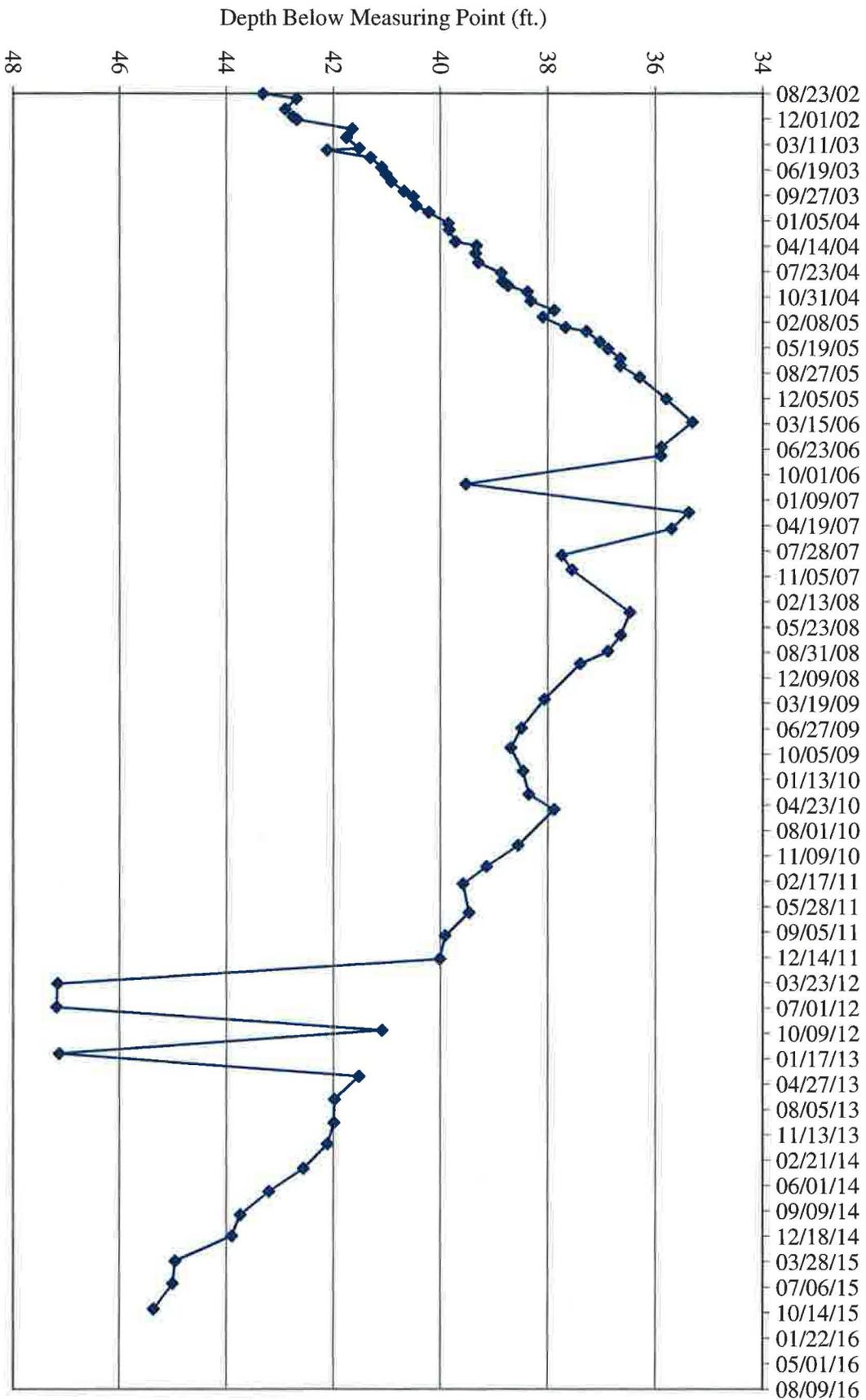
**Water Levels and Data over Time
White Mesa Mill - Well TW4-12**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.23	1.85				101.5
5,580.91				08/23/02	43.32	41.47	
5,581.54				09/11/02	42.69	40.84	
5,581.33				10/23/02	42.90	41.05	
5,581.47				11/22/02	42.76	40.91	
5,581.55				12/03/02	42.68	40.83	
5,582.58				01/09/03	41.65	39.80	
5,582.47				02/12/03	41.76	39.91	
5,582.71				03/26/03	41.52	39.67	
5,582.11				04/02/03	42.12	40.27	
5,582.92				05/01/03	41.31	39.46	
5,583.13				06/09/03	41.10	39.25	
5,583.21				07/07/03	41.02	39.17	
5,583.31				08/04/03	40.92	39.07	
5,583.55				09/11/03	40.68	38.83	
5,583.72				10/02/03	40.51	38.66	
5,583.77				11/07/03	40.46	38.61	
5,584.01				12/03/03	40.22	38.37	
5,584.37				01/15/04	39.86	38.01	
5,584.39				02/10/04	39.84	37.99	
5,584.51				03/28/04	39.72	37.87	
5,584.90				04/12/04	39.33	37.48	
5,584.88				05/13/04	39.35	37.50	
5,584.93				06/18/04	39.30	37.45	
5,585.36				07/28/04	38.87	37.02	
5,585.38				08/30/04	38.85	37.00	
5,585.49				09/16/04	38.74	36.89	
5,585.85				10/11/04	38.38	36.53	
5,585.91				11/16/04	38.32	36.47	
5,586.35				12/22/04	37.88	36.03	
5,586.14				01/18/05	38.09	36.24	
5,586.56				02/28/05	37.67	35.82	
5,586.95				03/15/05	37.28	35.43	
5,587.20				04/26/05	37.03	35.18	
5,587.35				05/24/05	36.88	35.03	
5,587.58				06/30/05	36.65	34.80	
5,587.58				07/29/05	36.65	34.80	
5,587.94				09/12/05	36.29	34.44	
5,588.43				12/07/05	35.80	33.95	
5,588.92				03/08/06	35.31	33.46	
5,588.34				06/13/06	35.89	34.04	
5,588.33				07/18/06	35.90	34.05	
5,584.70				11/07/06	39.53	37.68	
5588.85				02/27/07	35.38	33.53	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-12**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.23	1.85				101.5
5,588.53				05/02/07	35.70	33.85	
5,586.49				08/14/07	37.74	35.89	
5,586.68				10/10/07	37.55	35.70	
5,587.76				03/26/08	36.47	34.62	
5,587.59				06/24/08	36.64	34.79	
5,587.35				08/26/08	36.88	35.03	
5,586.84				10/14/08	37.39	35.54	
5,586.17				03/03/09	38.06	36.21	
5,585.74				06/24/09	38.49	36.64	
5,585.54				09/10/09	38.69	36.84	
5,585.77				12/11/09	38.46	36.61	
5,585.88				03/11/10	38.35	36.50	
5,586.35				05/11/10	37.88	36.03	
5,585.68				09/29/10	38.55	36.70	
5,585.09				12/21/10	39.14	37.29	
5,584.65				02/28/11	39.58	37.73	
5,584.76				06/21/11	39.47	37.62	
5,584.32				09/20/11	39.91	38.06	
5,584.22				12/21/11	40.01	38.16	
5,577.07				03/27/12	47.16	45.31	
5,577.05				06/28/12	47.18	45.33	
5,583.14				09/27/12	41.09	39.24	
5,577.10				12/28/12	47.13	45.28	
5,582.71				03/28/13	41.52	39.67	
5,582.25				06/27/13	41.98	40.13	
5,582.24				09/27/13	41.99	40.14	
5,582.12				12/20/13	42.11	40.26	
5,581.67				03/27/14	42.56	40.71	
5,581.03				06/25/14	43.20	41.35	
5,580.49				09/25/14	43.74	41.89	
5,580.33				12/17/14	43.90	42.05	
5,579.28				03/26/15	44.95	43.10	
5,579.23				06/22/15	45.00	43.15	
5,578.87				09/30/15	45.36	43.51	

TW4-12 Water Depth Over Time (ft. blmp)



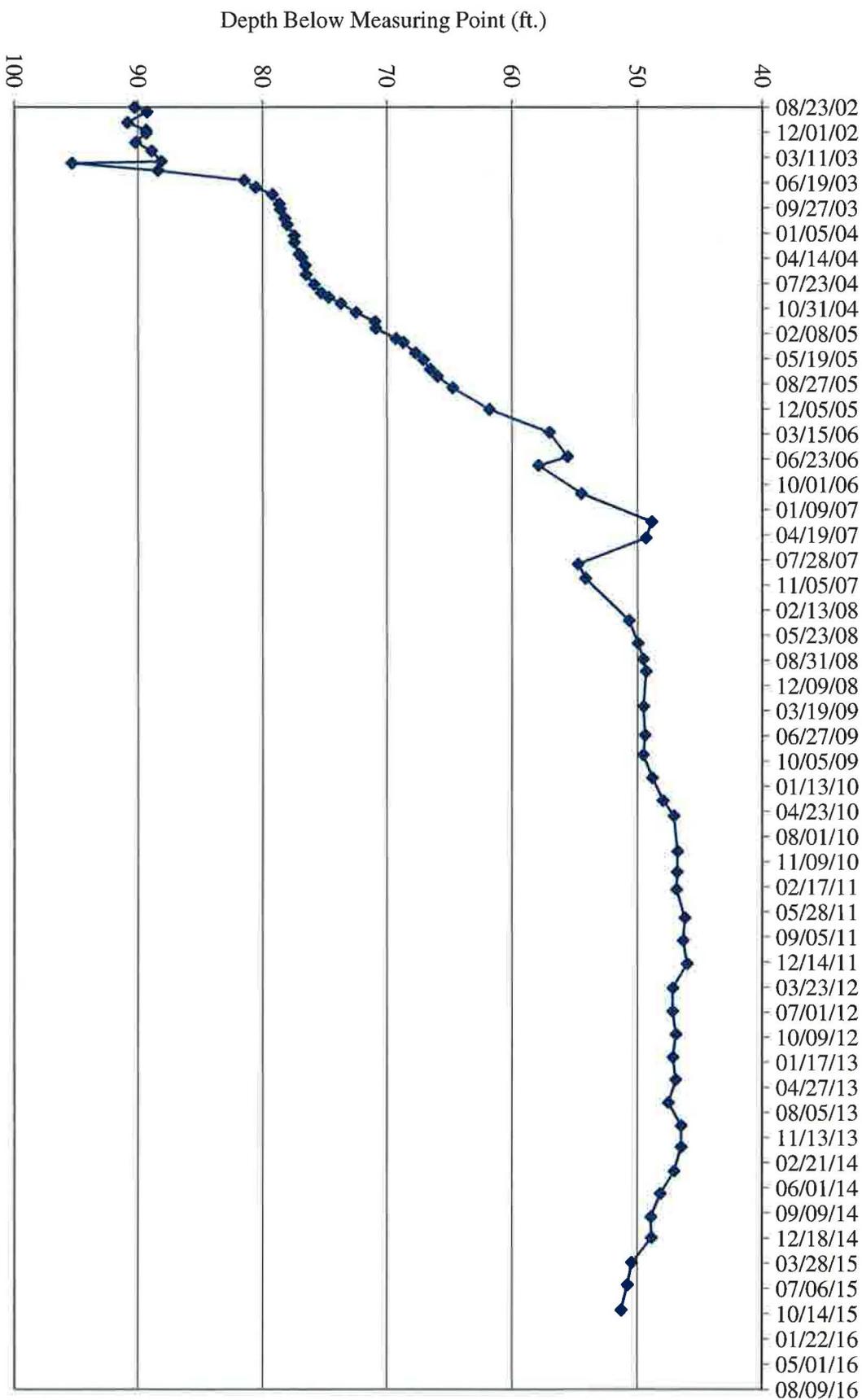
**Water Levels and Data over Time
White Mesa Mill - Well TW4-13**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,618.09	5,619.94	1.85				102.5
5,529.66				08/23/02	90.28	88.43	
5,530.66				09/11/02	89.28	87.43	
5,529.10				10/23/02	90.84	88.99	
5,530.58				11/22/02	89.36	87.51	
5,530.61				12/03/02	89.33	87.48	
5,529.74				01/09/03	90.20	88.35	
5,531.03				02/12/03	88.91	87.06	
5,531.82				03/26/03	88.12	86.27	
5,524.63				04/02/03	95.31	93.46	
5,531.54				05/01/03	88.40	86.55	
5,538.46				06/09/03	81.48	79.63	
5,539.38				07/07/03	80.56	78.71	
5,540.72				08/04/03	79.22	77.37	
5,541.25				09/11/03	78.69	76.84	
5,541.34				10/02/03	78.60	76.75	
5,541.69				11/07/03	78.25	76.40	
5,541.91				12/03/03	78.03	76.18	
5,542.44				01/15/04	77.50	75.65	
5,542.47				02/10/04	77.47	75.62	
5,542.84				03/28/04	77.10	75.25	
5,543.08				04/12/04	76.86	75.01	
5,543.34				05/13/04	76.60	74.75	
5,543.40				06/18/04	76.54	74.69	
5,544.06				07/28/04	75.88	74.03	
5,544.61				08/30/04	75.33	73.48	
5,545.23				09/16/04	74.71	72.86	
5,546.20				10/11/04	73.74	71.89	
5,547.43				11/16/04	72.51	70.66	
5,548.96				12/22/04	70.98	69.13	
5,549.02				01/18/05	70.92	69.07	
5,550.66				02/28/05	69.28	67.43	
5,551.26				03/15/05	68.68	66.83	
5,552.23				04/26/05	67.71	65.86	
5,552.87				05/24/05	67.07	65.22	
5,553.42				06/30/05	66.52	64.67	
5,554.00				07/29/05	65.94	64.09	
5,555.21				09/12/05	64.73	62.88	
5,558.13				12/07/05	61.81	59.96	
5,562.93				03/08/06	57.01	55.16	
5,564.39				06/13/06	55.55	53.70	
5,562.09				07/18/06	57.85	56.00	
5,565.49				11/07/06	54.45	52.60	
5571.08				02/27/07	48.86	47.01	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-13**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				102.5
5,570.63				05/02/07	49.31	47.46	
5,565.24				08/14/07	54.70	52.85	
5,565.83				10/10/07	54.11	52.26	
5,569.29				03/26/08	50.65	48.80	
5,570.00				06/24/08	49.94	48.09	
5,570.41				08/26/08	49.53	47.68	
5,570.64				10/14/08	49.30	47.45	
5,570.43				03/03/09	49.51	47.66	
5,570.56				06/24/09	49.38	47.53	
5,570.42				09/10/09	49.52	47.67	
5,571.15				12/11/09	48.79	46.94	
5,572.01				03/11/10	47.93	46.08	
5,572.88				05/11/10	47.06	45.21	
5,573.17				09/29/10	46.77	44.92	
5,573.14				12/21/10	46.80	44.95	
5,573.10				02/28/11	46.84	44.99	
5,573.75				06/21/11	46.19	44.34	
5,573.63				09/20/11	46.31	44.46	
5,573.94				12/21/11	46.00	44.15	
5,572.79				03/27/12	47.15	45.30	
5,572.77				06/28/12	47.17	45.32	
5,573.04				09/27/12	46.90	45.05	
5,572.79				12/28/12	47.15	45.30	
5,573.03				03/28/13	46.91	45.06	
5,572.44				06/27/13	47.50	45.65	
5,573.46				09/27/13	46.48	44.63	
5,573.46				12/20/13	46.48	44.63	
5,572.90				03/27/14	47.04	45.19	
5,571.79				06/25/14	48.15	46.30	
5,571.04				09/25/14	48.90	47.05	
5,571.08				12/17/14	48.86	47.01	
5,569.50				03/26/15	50.44	48.59	
5,569.16				06/22/15	50.78	48.93	
5,568.66				09/30/15	51.28	49.43	

TW4-13 Water Depth Over Time (ft. blmp)



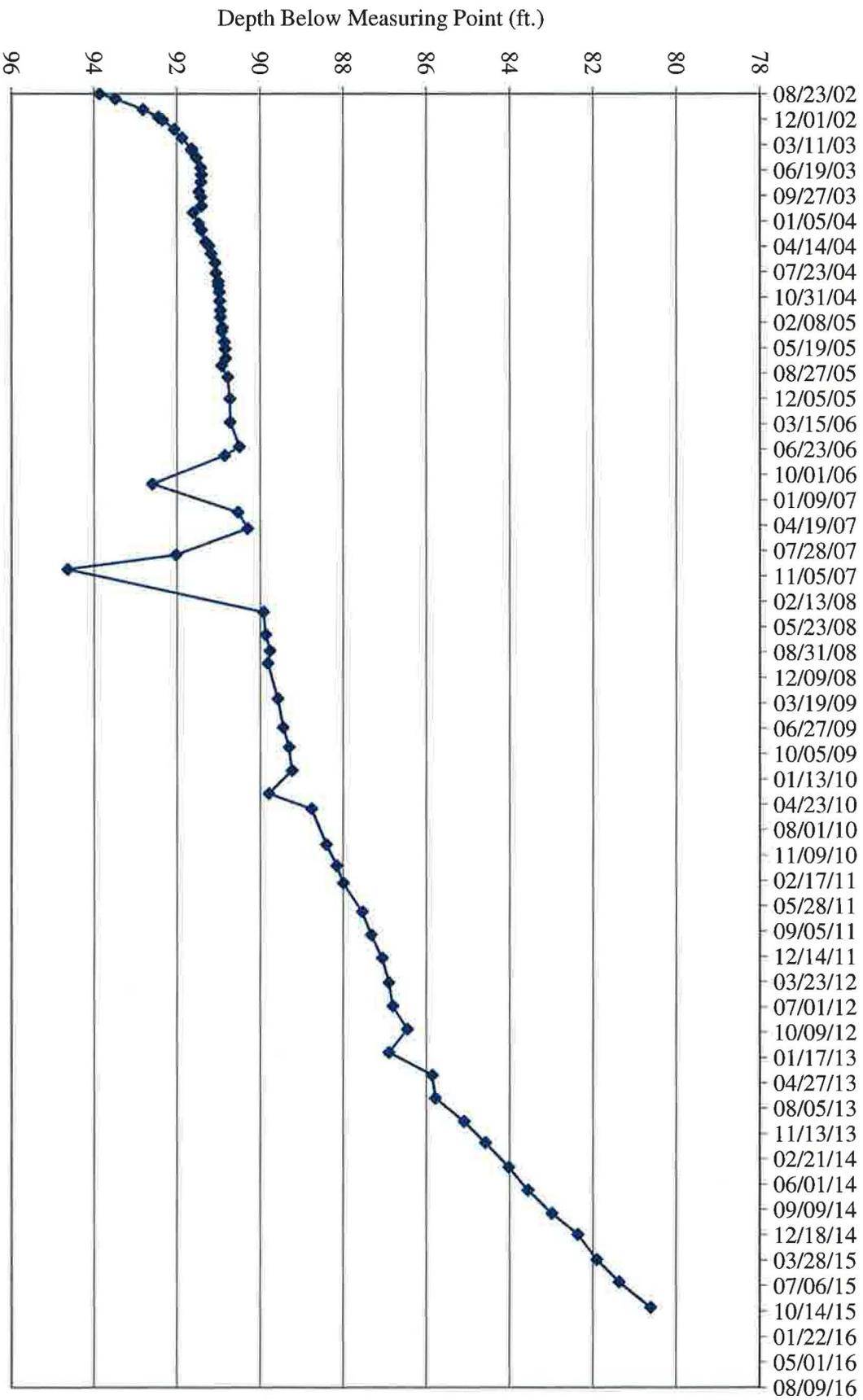
**Water Levels and Data over Time
White Mesa Mill - Well TW4-14**

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
	5,610.92	5,612.77	1.85				93
5,518.90				08/23/02	93.87	92.02	
5,519.28				09/11/02	93.49	91.64	
5,519.95				10/23/02	92.82	90.97	
5,520.32				11/22/02	92.45	90.60	
5,520.42				12/03/02	92.35	90.50	
5,520.70				01/09/03	92.07	90.22	
5,520.89				02/12/03	91.88	90.03	
5,521.12				03/26/03	91.65	89.80	
5,521.12				04/02/03	91.65	89.80	
5,521.24				05/01/03	91.53	89.68	
5,521.34				06/09/03	91.43	89.58	
5,521.36				07/07/03	91.41	89.56	
5,521.35				08/04/03	91.42	89.57	
5,521.30				09/11/03	91.47	89.62	
5,521.35				10/02/03	91.42	89.57	
5,521.36				11/07/03	91.41	89.56	
5,521.16				12/03/03	91.61	89.76	
5,521.29				01/15/04	91.48	89.63	
5,521.36				02/10/04	91.41	89.56	
5,521.46				03/28/04	91.31	89.46	
5,521.54				04/12/04	91.23	89.38	
5,521.59				05/13/04	91.18	89.33	
5,521.69				06/18/04	91.08	89.23	
5,521.71				07/28/04	91.06	89.21	
5,521.76				08/30/04	91.01	89.16	
5,521.77				09/16/04	91.00	89.15	
5,521.79				10/11/04	90.98	89.13	
5,521.80				11/16/04	90.97	89.12	
5,521.82				12/22/04	90.95	89.10	
5,521.82				01/18/05	90.95	89.10	
5,521.86				02/28/05	90.91	89.06	
5,521.85				03/15/05	90.92	89.07	
5,521.91				04/26/05	90.86	89.01	
5,521.93				05/24/05	90.84	88.99	
5,521.94				06/30/05	90.83	88.98	
5,521.84				07/29/05	90.93	89.08	
5,521.99				09/12/05	90.78	88.93	
5,522.04				12/07/05	90.73	88.88	
5,522.05				03/08/06	90.72	88.87	
5,522.27				06/13/06	90.50	88.65	
5,521.92				07/18/06	90.85	89.00	
5,520.17				11/07/06	92.60	90.75	
5522.24				02/27/07	90.53	88.68	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-14**

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
	5,610.92	5,612.77	1.85				93
5,522.47				05/02/07	90.30	88.45	
5,520.74				08/14/07	92.03	90.18	
5,518.13				10/10/07	94.64	92.79	
5,522.85				03/26/08	89.92	88.07	
5,522.91				06/24/08	89.86	88.01	
5,523.01				08/26/08	89.76	87.91	
5,522.96				10/14/08	89.81	87.96	
5,523.20				03/03/09	89.57	87.72	
5,523.33				06/24/09	89.44	87.59	
5,523.47				09/10/09	89.30	87.45	
5,523.54				12/11/09	89.23	87.38	
5,522.98				03/11/10	89.79	87.94	
5,524.01				05/11/10	88.76	86.91	
5,524.37				09/29/10	88.40	86.55	
5,524.62				12/21/10	88.15	86.30	
5,524.78				02/28/11	87.99	86.14	
5,525.23				06/21/11	87.54	85.69	
5,525.45				09/20/11	87.32	85.47	
5,525.72				12/21/11	87.05	85.20	
5,525.88				03/27/12	86.89	85.04	
5,525.97				06/28/12	86.80	84.95	
5,526.32				09/27/12	86.45	84.60	
5,525.88				12/28/12	86.89	85.04	
5,526.91				03/28/13	85.86	84.01	
5,526.99				06/27/13	85.78	83.93	
5,527.68				09/27/13	85.09	83.24	
5,528.19				12/20/13	84.58	82.73	
5,528.75				03/27/14	84.02	82.17	
5,529.21				06/25/14	83.56	81.71	
5,529.78				09/25/14	82.99	81.14	
5,530.41				12/17/14	82.36	80.51	
5,530.86				03/26/15	81.91	80.06	
5,531.40				06/22/15	81.37	79.52	
5,532.15				09/30/15	80.62	78.77	

TW4-14 Water Depth Over Time (ft. blmp)



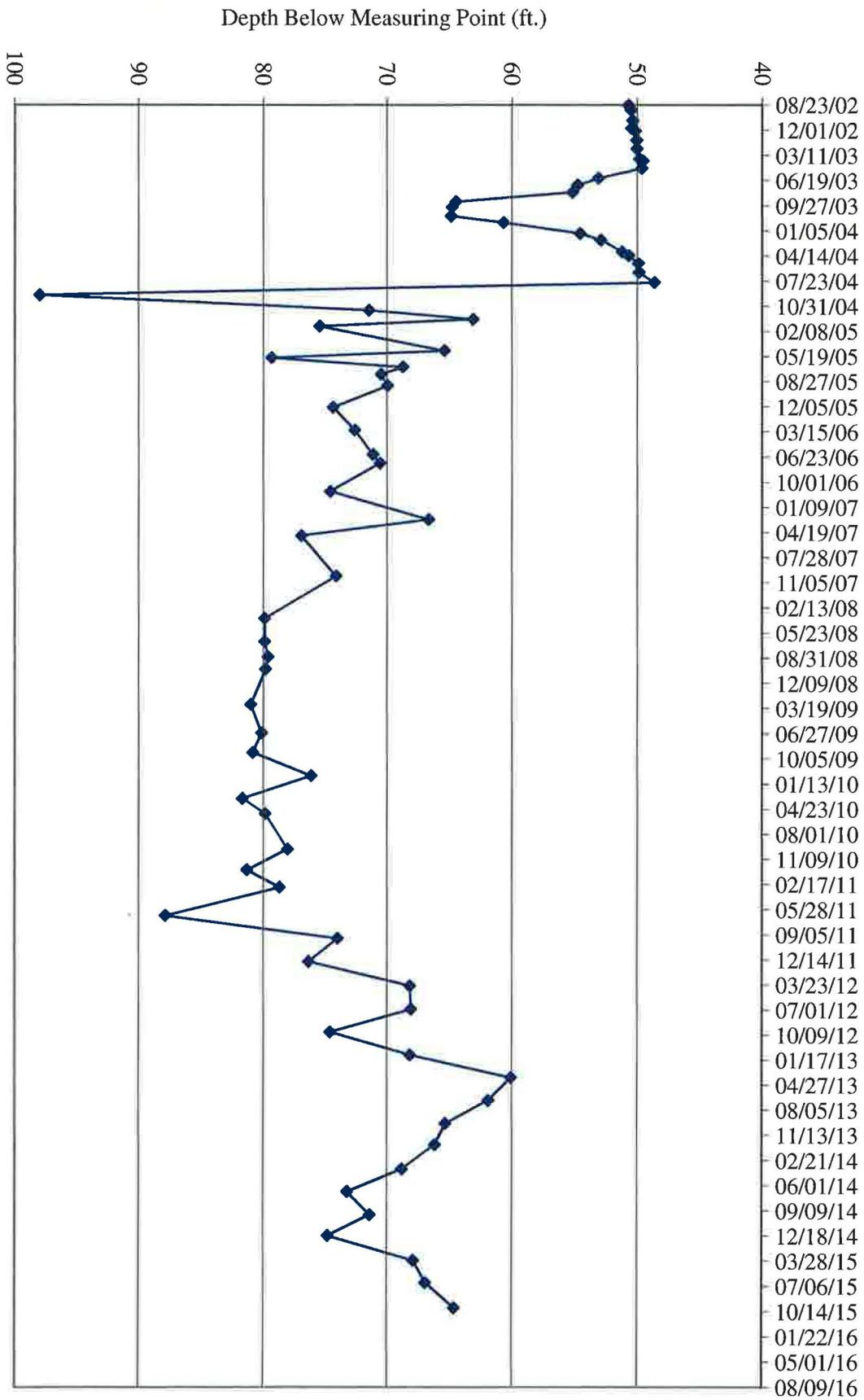
**Water Levels and Data over Time
White Mesa Mill - Well MW-26**

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
	5,624.15	5,625.45	1.30				121.33
5,574.75				08/23/02	50.70	49.40	
5,574.97				09/11/02	50.48	49.18	
5,575.10				10/23/02	50.35	49.05	
5,574.99				11/22/02	50.46	49.16	
5,575.28				12/03/02	50.17	48.87	
5,575.41				01/09/03	50.04	48.74	
5,575.43				02/12/03	50.02	48.72	
5,575.63				03/26/03	49.82	48.52	
5,575.91				04/02/03	49.54	48.24	
5,575.81				05/01/03	49.64	48.34	
5,572.36				06/09/03	53.09	51.79	
5,570.70				07/07/03	54.75	53.45	
5,570.29				08/04/03	55.16	53.86	
5,560.94				09/11/03	64.51	63.21	
5,560.63				10/02/03	64.82	63.52	
5,560.56				11/07/03	64.89	63.59	
5,564.77				12/03/03	60.68	59.38	
5,570.89				01/15/04	54.56	53.26	
5,572.55				02/10/04	52.90	51.60	
5,574.25				03/28/04	51.20	49.90	
5,574.77				04/12/04	50.68	49.38	
5,575.53				05/13/04	49.92	48.62	
5,575.59				06/18/04	49.86	48.56	
5,576.82				07/28/04	48.63	47.33	
5,527.47				09/16/04	97.98	96.68	
5,553.97				11/16/04	71.48	70.18	
5,562.33				12/22/04	63.12	61.82	
5,550.00				01/18/05	75.45	74.15	
5,560.02				04/26/05	65.43	64.13	
5,546.11				05/24/05	79.34	78.04	
5,556.71				06/30/05	68.74	67.44	
5,554.95				07/29/05	70.50	69.20	
5,555.48				09/12/05	69.97	68.67	
5,551.09				12/07/05	74.36	73.06	
5,552.85				03/08/06	72.60	71.30	
5,554.30				06/13/06	71.15	69.85	
5,554.87				07/18/06	70.58	69.28	
5,550.88				11/07/06	74.57	73.27	
5558.77				02/27/07	66.68	65.38	
5,548.54				05/02/07	76.91	75.61	
5,551.33				10/10/07	74.12	72.82	
5,545.56				03/26/08	79.89	78.59	
5,545.56				06/25/08	79.89	78.59	

**Water Levels and Data over Time
White Mesa Mill - Well MW-26**

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
	5,624.15	5,625.45	1.30				121.33
5,545.82				08/26/08	79.63	78.33	
5,545.64				10/14/08	79.81	78.51	
5,544.45				03/03/09	81.00	79.70	
5,545.32				06/24/09	80.13	78.83	
5,544.61				09/10/09	80.84	79.54	
5,549.33				12/11/09	76.12	74.82	
5,543.78				03/11/10	81.67	80.37	
5,545.61				05/11/10	79.84	78.54	
5,547.43				09/29/10	78.02	76.72	
5,544.14				12/21/10	81.31	80.01	
5,546.77				02/28/11	78.68	77.38	
5,537.60				06/21/11	87.85	86.55	
5,551.46				09/20/11	73.99	72.69	
5,549.12				12/21/11	76.33	75.03	
5,557.30				03/27/12	68.15	66.85	
5,557.38				06/28/12	68.07	66.77	
5,550.86				09/27/12	74.59	73.29	
5,557.30				12/28/12	68.15	66.85	
5,565.37				03/28/13	60.08	58.78	
5,563.55				06/27/13	61.90	60.60	
5,560.12				09/27/13	65.33	64.03	
5,559.27				12/20/13	66.18	64.88	
5,556.65				03/27/14	68.80	67.50	
5,552.23				06/25/14	73.22	71.92	
5,554.05				09/25/14	71.40	70.10	
5,550.65				12/17/14	74.80	73.50	
5,557.55				03/26/15	67.90	66.60	
5,558.51				06/22/15	66.94	65.64	
5,560.81				09/30/15	64.64	63.34	

MW-26 Water Depth Over Time (ft. blmp)



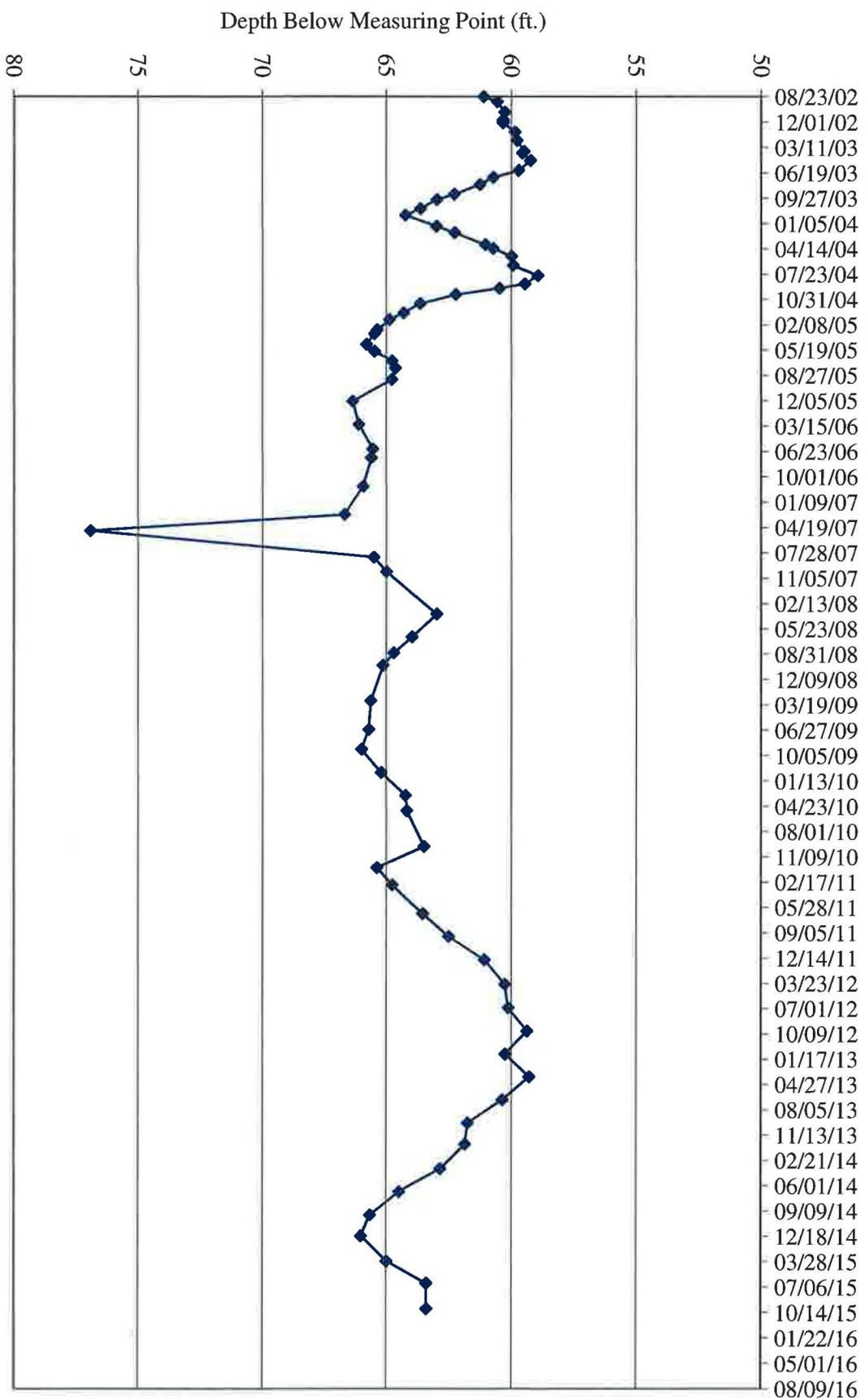
**Water Levels and Data over Time
White Mesa Mill - Well TW4-16**

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
	5,622.19	5,624.02	1.83				142
5,562.91				08/23/02	61.11	59.28	
5,563.45				09/11/02	60.57	58.74	
5,563.75				10/23/02	60.27	58.44	
5,563.68				11/22/02	60.34	58.51	
5,563.68				12/03/02	60.34	58.51	
5,564.16				01/09/03	59.86	58.03	
5,564.25				02/12/03	59.77	57.94	
5,564.53				03/26/03	59.49	57.66	
5,564.46				04/02/03	59.56	57.73	
5,564.79				05/01/03	59.23	57.40	
5,564.31				06/09/03	59.71	57.88	
5,563.29				07/07/03	60.73	58.90	
5,562.76				08/04/03	61.26	59.43	
5,561.73				09/11/03	62.29	60.46	
5,561.04				10/02/03	62.98	61.15	
5,560.39				11/07/03	63.63	61.80	
5,559.79				12/03/03	64.23	62.40	
5,561.02				01/15/04	63.00	61.17	
5,561.75				02/10/04	62.27	60.44	
5,562.98				03/28/04	61.04	59.21	
5,563.29				04/12/04	60.73	58.90	
5,564.03				05/13/04	59.99	58.16	
5,564.09				06/18/04	59.93	58.10	
5,565.08				07/28/04	58.94	57.11	
5,564.56				08/30/04	59.46	57.63	
5,563.55				09/16/04	60.47	58.64	
5,561.79				10/11/04	62.23	60.40	
5,560.38				11/16/04	63.64	61.81	
5,559.71				12/22/04	64.31	62.48	
5,559.14				01/18/05	64.88	63.05	
5,558.65				02/28/05	65.37	63.54	
5,558.54				03/15/05	65.48	63.65	
5,558.22				04/26/05	65.80	63.97	
5,558.54				05/24/05	65.48	63.65	
5,559.24				06/30/05	64.78	62.95	
5,559.38				07/29/05	64.64	62.81	
5,559.23				09/12/05	64.79	62.96	
5,557.67				12/07/05	66.35	64.52	
5,557.92				03/08/06	66.10	64.27	
5,558.47				06/13/06	65.55	63.72	
5,558.42				07/18/06	65.60	63.77	
5,558.09				11/07/06	65.93	64.10	
5557.34				02/27/07	66.68	64.85	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-16**

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
	5,622.19	5,624.02	1.83				142
5,547.11				05/02/07	76.91	75.08	
5,558.52				08/14/07	65.50	63.67	
5,559.02				10/10/07	65.00	63.17	
5,561.04				03/26/08	62.98	61.15	
5,560.06				06/24/08	63.96	62.13	
5,559.32				08/26/08	64.70	62.87	
5,558.89				10/14/08	65.13	63.30	
5,558.40				03/03/09	65.62	63.79	
5,558.32				06/24/09	65.70	63.87	
5,558.03				09/10/09	65.99	64.16	
5,558.81				12/11/09	65.21	63.38	
5,559.80				03/11/10	64.22	62.39	
5,559.85				05/11/10	64.17	62.34	
5,560.54				09/29/10	63.48	61.65	
5,558.65				12/21/10	65.37	63.54	
5,559.26				02/28/11	64.76	62.93	
5,560.48				06/21/11	63.54	61.71	
5,561.52				09/20/11	62.50	60.67	
5,562.95				12/21/11	61.07	59.24	
5,563.76				03/27/12	60.26	58.43	
5,563.90				06/28/12	60.12	58.29	
5,564.65				09/27/12	59.37	57.54	
5,563.77				12/28/12	60.25	58.42	
5,564.74				03/28/13	59.28	57.45	
5,563.66				06/27/13	60.36	58.53	
5,562.27				09/27/13	61.75	59.92	
5,562.17				12/20/13	61.85	60.02	
5,561.17				03/27/14	62.85	61.02	
5,559.53				06/25/14	64.49	62.66	
5,558.36				09/25/14	65.66	63.83	
5,558.00				12/17/14	66.02	64.19	
5,559.02				03/26/15	65.00	63.17	
5,560.62				06/22/15	63.40	61.57	
5,560.62				09/30/15	63.40	61.57	

TW4-16 Water Depth Over Time (ft. blmp)



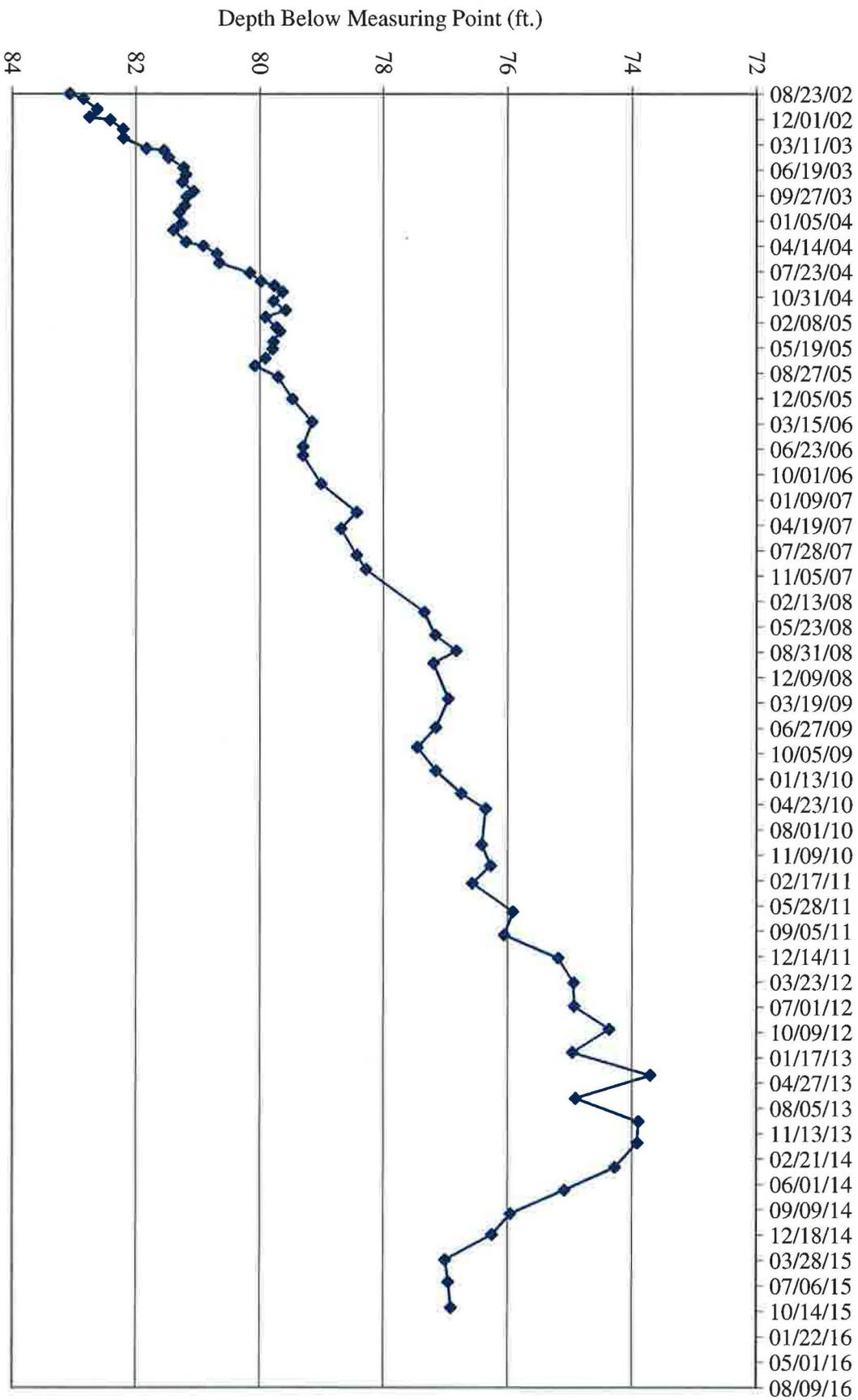
**Water Levels and Data over Time
White Mesa Mill - Well MW-32**

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
	5,623.41	5,625.24	1.83				130.6
5,542.17				08/23/02	83.07	81.24	
5,542.39				09/11/02	82.85	81.02	
5,542.61				10/23/02	82.63	80.80	
5,542.49				11/22/02	82.75	80.92	
5,542.82				12/03/02	82.42	80.59	
5,543.03				01/09/03	82.21	80.38	
5,543.04				02/12/03	82.20	80.37	
5,543.41				03/26/03	81.83	80.00	
5,543.69				04/02/03	81.55	79.72	
5,543.77				05/01/03	81.47	79.64	
5,544.01				06/09/03	81.23	79.40	
5,544.05				07/07/03	81.19	79.36	
5,543.99				08/04/03	81.25	79.42	
5,544.17				09/11/03	81.07	79.24	
5,544.06				10/02/03	81.18	79.35	
5,544.03				11/07/03	81.21	79.38	
5,543.94				12/03/03	81.30	79.47	
5,543.98				01/15/04	81.26	79.43	
5,543.85				02/10/04	81.39	79.56	
5,544.05				03/28/04	81.19	79.36	
5,544.33				04/12/04	80.91	79.08	
5,544.55				05/13/04	80.69	78.86	
5,544.59				06/18/04	80.65	78.82	
5,545.08				07/28/04	80.16	78.33	
5,545.26				08/30/04	79.98	78.15	
5,545.48				09/16/04	79.76	77.93	
5,545.61				10/11/04	79.63	77.80	
5,545.46				11/16/04	79.78	77.95	
5,545.66				12/22/04	79.58	77.75	
5,545.33				01/18/05	79.91	78.08	
5,545.51				02/28/05	79.73	77.90	
5,545.57				03/15/05	79.67	77.84	
5,545.46				04/26/05	79.78	77.95	
5,545.45				05/24/05	79.79	77.96	
5,545.33				06/30/05	79.91	78.08	
5,545.16				07/29/05	80.08	78.25	
5,545.54				09/12/05	79.70	77.87	
5,545.77				12/07/05	79.47	77.64	
5,546.09				03/08/06	79.15	77.32	
5,545.94				06/13/06	79.30	77.47	
5,545.94				07/18/06	79.30	77.47	
5,546.24				11/07/06	79.00	77.17	
5546.81				02/27/07	78.43	76.6	

**Water Levels and Data over Time
White Mesa Mill - Well MW-32**

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
	5,623.41	5,625.24	1.83				130.6
5546.56				05/02/07	78.68	76.85	
5546.81				08/15/07	78.43	76.6	
5546.96				10/10/07	78.28	76.45	
5547.9				03/26/08	77.34	75.51	
5548.08				06/25/08	77.16	75.33	
5548.42				08/26/08	76.82	74.99	
5548.05				10/14/08	77.19	75.36	
5548.29				03/03/09	76.95	75.12	
5548.09				06/24/09	77.15	75.32	
5547.79				09/10/09	77.45	75.62	
5548.09				12/11/09	77.15	75.32	
5,548.50				03/11/10	76.74	74.91	
5,548.89				05/11/10	76.35	74.52	
5,548.83				09/29/10	76.41	74.58	
5,548.97				12/21/10	76.27	74.44	
5,548.68				02/28/11	76.56	74.73	
5,549.33				06/21/11	75.91	74.08	
5,549.19				09/20/11	76.05	74.22	
5,550.06				12/21/11	75.18	73.35	
5,550.31				03/27/12	74.93	73.10	
5,550.32				06/28/12	74.92	73.09	
5,550.88				09/27/12	74.36	72.53	
5,550.29				12/28/12	74.95	73.12	
5,551.54				03/28/13	73.70	71.87	
5,550.34				06/27/13	74.90	73.07	
5,551.35				09/27/13	73.89	72.06	
5,551.33				12/20/13	73.91	72.08	
5,550.97				03/27/14	74.27	72.44	
5,550.16				06/25/14	75.08	73.25	
5,549.29				09/25/14	75.95	74.12	
5,548.99				12/17/14	76.25	74.42	
5,548.24				03/26/15	77.00	75.17	
5,548.29				06/22/15	76.95	75.12	
5,548.33				09/30/15	76.91	75.08	

MW-32 Water Depth Over Time (ft. blmp)



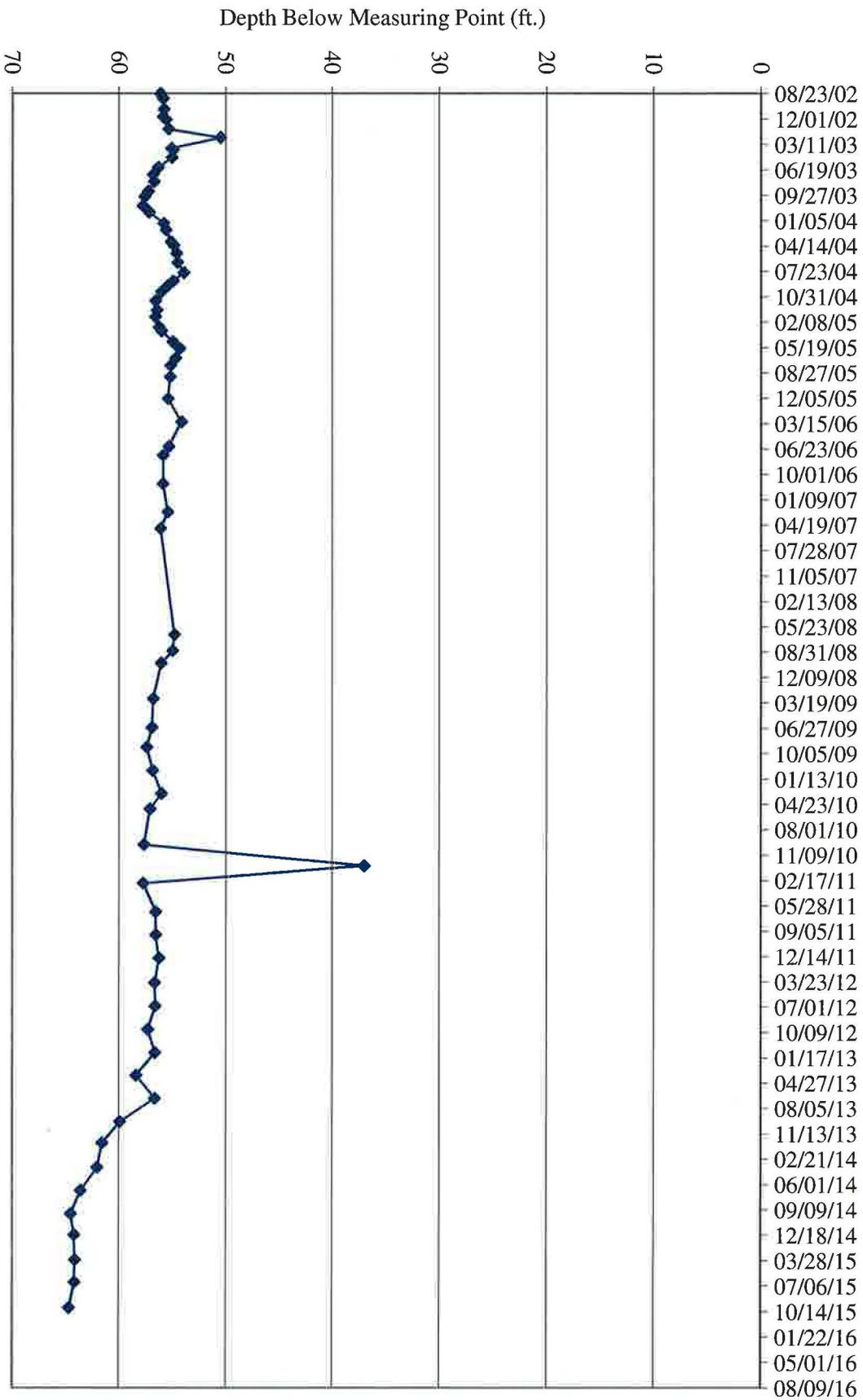
**Water Levels and Data over Time
White Mesa Mill - Well TW4-18**

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
	5,639.13	5,641.28	2.15				137.5
5,585.13				08/23/02	56.15	54.00	
5,585.41				09/11/02	55.87	53.72	
5,585.47				10/23/02	55.81	53.66	
5,585.40				11/22/02	55.88	53.73	
5,585.68				12/03/02	55.60	53.45	
5,585.90				01/09/03	55.38	53.23	
5,590.79				02/12/03	50.49	48.34	
5,586.18				03/26/03	55.10	52.95	
5,586.36				04/02/03	54.92	52.77	
5,586.24				05/01/03	55.04	52.89	
5,584.93				06/09/03	56.35	54.20	
5,584.46				07/07/03	56.82	54.67	
5,584.55				08/04/03	56.73	54.58	
5,584.01				09/11/03	57.27	55.12	
5,583.67				10/02/03	57.61	55.46	
5,583.50				11/07/03	57.78	55.63	
5,584.08				12/03/03	57.20	55.05	
5,585.45				01/15/04	55.83	53.68	
5,585.66				02/10/04	55.62	53.47	
5,586.13				03/28/04	55.15	53.00	
5,586.39				04/12/04	54.89	52.74	
5,586.66				05/13/04	54.62	52.47	
5,586.77				06/18/04	54.51	52.36	
5,587.35				07/28/04	53.93	51.78	
5,586.34				08/30/04	54.94	52.79	
5,585.85				09/16/04	55.43	53.28	
5,585.22				10/11/04	56.06	53.91	
5,584.70				11/16/04	56.58	54.43	
5,584.81				12/22/04	56.47	54.32	
5,584.68				01/18/05	56.60	54.45	
5,585.02				02/28/05	56.26	54.11	
5,585.25				03/15/05	56.03	53.88	
5,586.31				04/26/05	54.97	52.82	
5,586.97				05/24/05	54.31	52.16	
5,586.58				06/30/05	54.70	52.55	
5,586.10				07/29/05	55.18	53.03	
5,586.05				09/12/05	55.23	53.08	
5,585.86				12/07/05	55.42	53.27	
5,587.13				03/08/06	54.15	52.00	
5,585.93				06/13/06	55.35	53.20	
5,585.40				07/18/06	55.88	53.73	
5,585.38				11/07/06	55.90	53.75	
5585.83				02/27/07	55.45	53.30	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-18**

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
	5,639.13	5,641.28	2.15				137.5
5585.15				05/02/07	56.13	53.98	
5586.47				06/24/08	54.81	52.66	
5586.3				08/26/08	54.98	52.83	
5585.21				10/14/08	56.07	53.92	
5584.47				03/03/09	56.81	54.66	
5584.35				06/24/09	56.93	54.78	
5583.88				09/10/09	57.4	55.25	
5584.43				12/11/09	56.85	54.70	
5,585.26				03/11/10	56.02	53.87	
5,584.17				05/11/10	57.11	54.96	
5,583.61				09/29/10	57.67	55.52	
5,604.29				12/21/10	36.99	34.84	
5,583.56				02/28/11	57.72	55.57	
5,584.73				06/21/11	56.55	54.40	
5,584.71				09/20/11	56.57	54.42	
5,585.03				12/21/11	56.25	54.10	
5,584.63				03/27/12	56.65	54.50	
5,584.67				06/28/12	56.61	54.46	
5,583.98				09/27/12	57.30	55.15	
5,584.65				12/28/12	56.63	54.48	
5,582.88				03/28/13	58.40	56.25	
5,584.63				06/27/13	56.65	54.50	
5,581.38				09/27/13	59.90	57.75	
5,579.71				12/20/13	61.57	59.42	
5,579.26				03/27/14	62.02	59.87	
5,577.73				06/25/14	63.55	61.40	
5,576.79				09/25/14	64.49	62.34	
5,577.11				12/17/14	64.17	62.02	
5,577.18				03/26/15	64.10	61.95	
5,577.13				06/22/15	64.15	62.00	
5,576.63				09/30/15	64.65	62.50	

TW4-18 Water Depth Over Time (ft. blmp)



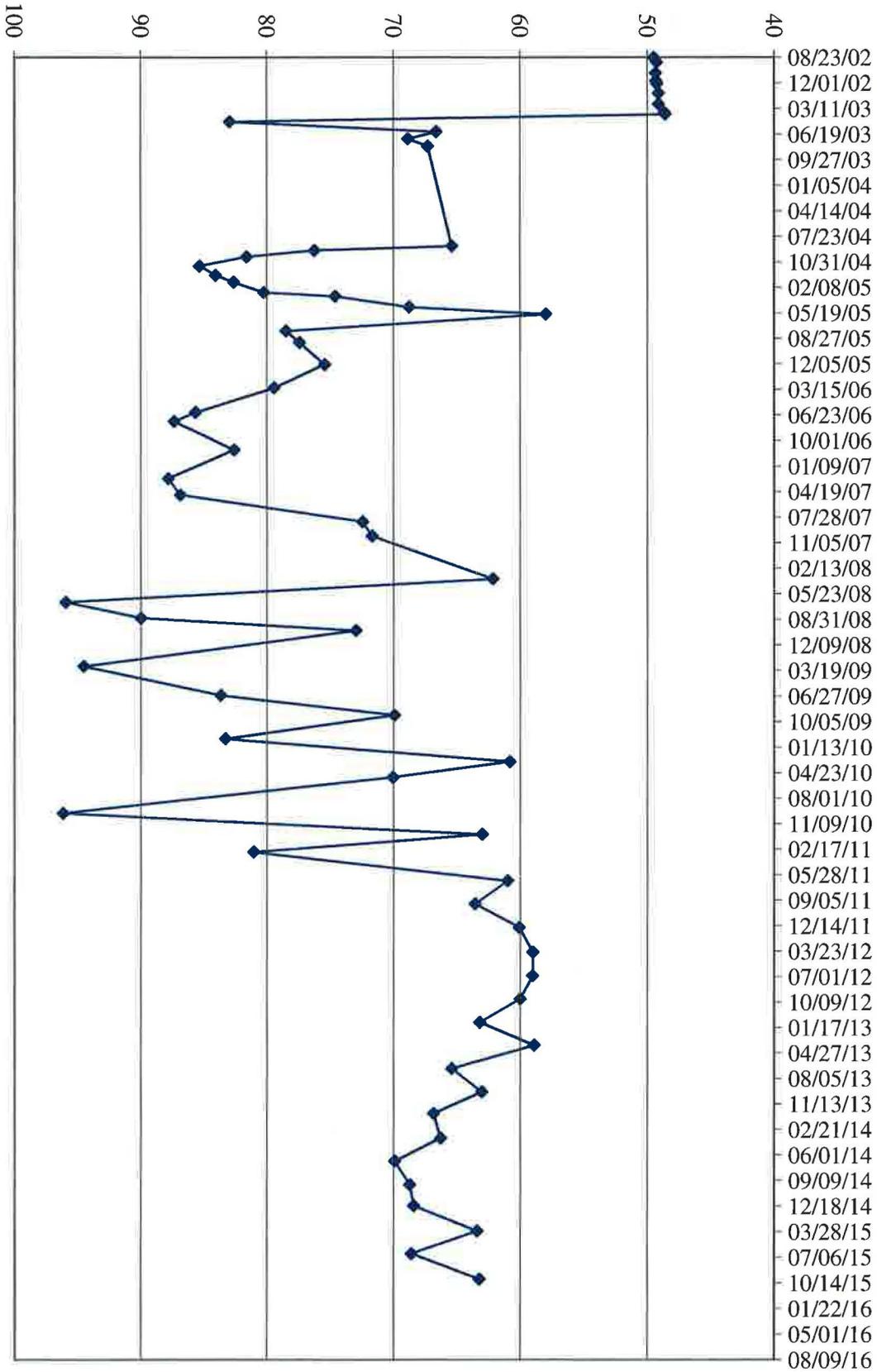
**Water Levels and Data over Time
White Mesa Mill - Well TW4-19**

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
	5,629.53	5,631.39	1.86				121.33
5,581.88				08/23/02	49.51	47.65	
5,582.14				09/11/02	49.25	47.39	
5,582.06				10/23/02	49.33	47.47	
5,582.07				11/22/02	49.32	47.46	
5,582.16				12/03/02	49.23	47.37	
5,582.28				01/09/03	49.11	47.25	
5,582.29				02/21/03	49.10	47.24	
5,582.74				03/26/03	48.65	46.79	
5,582.82				04/02/03	48.57	46.71	
5,548.47				05/01/03	82.92	81.06	
5,564.76				06/09/03	66.63	64.77	
5,562.53				07/07/03	68.86	67.00	
5,564.10				08/04/03	67.29	65.43	
5,566.01				08/30/04	65.38	63.52	
5,555.16				09/16/04	76.23	74.37	
5,549.80				10/11/04	81.59	79.73	
5,546.04				11/16/04	85.35	83.49	
5,547.34				12/22/04	84.05	82.19	
5,548.77				01/18/05	82.62	80.76	
5,551.18				02/28/05	80.21	78.35	
5,556.81				03/15/05	74.58	72.72	
5,562.63				04/26/05	68.76	66.90	
5,573.42				05/24/05	57.97	56.11	
5,552.94				07/29/05	78.45	76.59	
5,554.00				09/12/05	77.39	75.53	
5,555.98				12/07/05	75.41	73.55	
5,552.00				03/08/06	79.39	77.53	
5,545.74				06/13/06	85.65	83.79	
5,544.06				07/18/06	87.33	85.47	
5,548.81				11/07/06	82.58	80.72	
5543.59				02/27/07	87.80	85.94	
5544.55				05/02/07	86.84	84.98	
5558.97				08/15/07	72.42	70.56	
5559.73				10/10/07	71.66	69.8	
5569.26				03/26/08	62.13	60.27	
5535.47				06/25/08	95.92	94.06	
5541.41				08/26/08	89.98	88.12	
5558.45				10/14/08	72.94	71.08	
5536.9				03/03/09	94.49	92.63	
5547.76				06/24/09	83.63	81.77	
5561.48				09/10/09	69.91	68.05	
5548.14				12/11/09	83.25	81.39	
5,570.58				03/11/10	60.81	58.95	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-19**

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
	5,629.53	5,631.39	1.86				121.33
5,561.35				05/11/10	70.04	68.18	
5,535.26				09/29/10	96.13	94.27	
5,568.40				12/21/10	62.99	61.13	
5,550.36				02/28/11	81.03	79.17	
5,570.41				06/21/11	60.98	59.12	
5,567.84				09/20/11	63.55	61.69	
5,571.32				12/21/11	60.07	58.21	
5,572.40				03/27/12	58.99	57.13	
5,572.39				06/28/12	59.00	57.14	
5,571.40				09/27/12	59.99	58.13	
5,568.21				12/28/12	63.18	61.32	
5,572.51				03/28/13	58.88	57.02	
5,566.00				06/27/13	65.39	63.53	
5,568.37				09/27/13	63.02	61.16	
5,564.55				12/20/13	66.84	64.98	
5,565.11				03/27/14	66.28	64.42	
5,561.49				06/25/14	69.90	68.04	
5,562.67				09/25/14	68.72	66.86	
5,562.99				12/17/14	68.40	66.54	
5,567.99				03/26/15	63.40	61.54	
5,562.79				06/22/15	68.60	66.74	
5,568.16				09/30/15	63.23	61.37	

Depth Below Measuring Point (ft.)



TW4-19 Water Depth Over Time (ft. blmp)

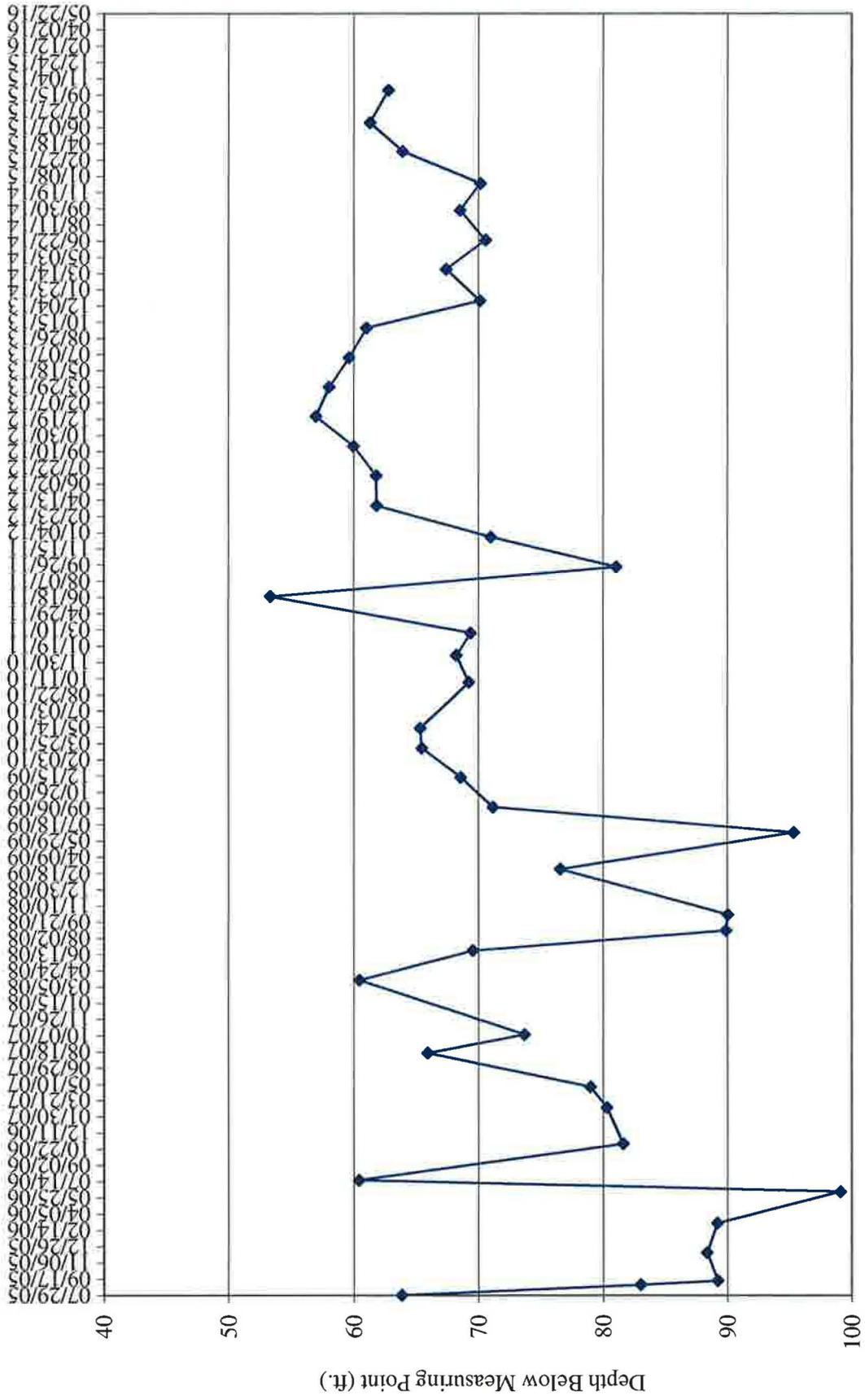
**Water Levels and Data over Time
White Mesa Mill - Well TW4-20**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured		Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	
	5,628.52	5,629.53	1.01				106.0
5,565.70				07/29/05	63.83	62.82	
5,546.53				08/30/05	83.00	81.99	
5,540.29				09/12/05	89.24	88.23	
5,541.17				12/07/05	88.36	87.35	
5,540.33				03/08/06	89.20	88.19	
5,530.43				06/13/06	99.10	98.09	
5,569.13				07/18/06	60.40	59.39	
5,547.95				11/07/06	81.58	80.57	
5,549.25				02/27/07	80.28	79.27	
5,550.58				05/02/07	78.95	77.94	
5,563.60				08/14/07	65.93	64.92	
5,555.85				10/10/07	73.68	72.67	
5,569.10				03/26/08	60.43	59.42	
5,560.00				06/25/08	69.53	68.52	
5,539.64				08/26/08	89.89	88.88	
5,539.51				10/14/08	90.02	89.01	
5,553.00				03/03/09	76.53	75.52	
5,534.18				06/24/09	95.35	94.34	
5,558.39				09/10/09	71.14	70.13	
5,560.99				12/11/09	68.54	67.53	
5,564.09				03/11/10	65.44	64.43	
5,564.22				05/11/10	65.31	64.30	
5,560.33				09/29/10	69.20	68.19	
5,561.35				12/21/10	68.18	67.17	
5,560.18				02/28/11	69.35	68.34	
5,576.23				06/21/11	53.30	52.29	
5,548.50				09/20/11	81.03	80.02	
5,558.58				12/21/11	70.95	69.94	
5,567.73				03/27/12	61.80	60.79	
5,567.77				06/28/12	61.76	60.75	
5,569.58				09/27/12	59.95	58.94	
5,572.58				12/28/12	56.95	55.94	
5,571.52				03/28/13	58.01	57.00	
5,569.93				06/27/13	59.60	58.59	
5,568.53				09/27/13	61.00	59.99	
5,559.44				12/20/13	70.09	69.08	
5,562.17				03/27/14	67.36	66.35	
5,558.98				06/25/14	70.55	69.54	
5,561.03				09/25/14	68.50	67.49	
5,559.39				12/17/14	70.14	69.13	
5,565.65				03/26/15	63.88	62.87	
5,568.25				06/22/15	61.28	60.27	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-20**

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
5,566.78	5,628.52	5,629.53	1.01	09/30/15	62.75	61.74	106.0

TW4-20 Water Depth Over Time (ft. blmp)



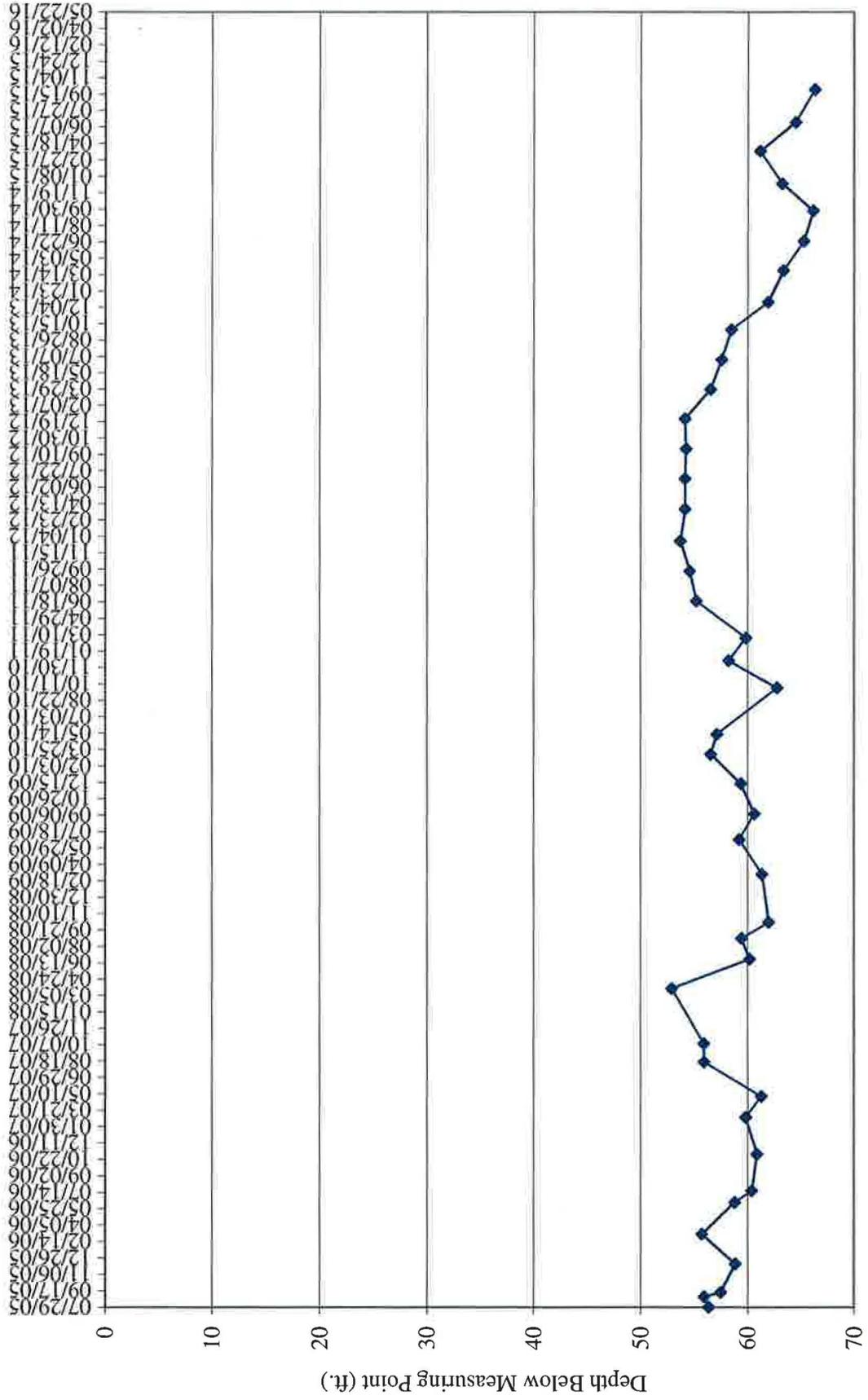
**Water Levels and Data over Time
White Mesa Mill - Well TW4-21**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,638.20	5,639.35	1.15				120.92
5,582.98				07/29/05	56.37	55.22	
5,583.43				08/30/05	55.92	54.77	
5,581.87				09/12/05	57.48	56.33	
5,580.50				12/07/05	58.85	57.70	
5,583.64				03/08/06	55.71	54.56	
5,580.55				06/13/06	58.80	57.65	
5,578.95				07/18/06	60.40	59.25	
5,578.47				11/07/06	60.88	59.73	
5,579.53				02/27/07	59.82	58.67	
5,578.07				05/02/07	61.28	60.13	
5,583.41				08/15/07	55.94	54.79	
5,583.45				10/10/07	55.90	54.75	
5,586.47				03/26/08	52.88	51.73	
5,579.16				06/24/08	60.19	59.04	
5,579.92				08/26/08	59.43	58.28	
5,577.37				10/14/08	61.98	60.83	
5,578.00				03/10/09	61.35	60.20	
5,580.14				06/24/09	59.21	58.06	
5,578.72				09/10/09	60.63	59.48	
5,579.99				12/11/09	59.36	58.21	
5,582.81				03/11/10	56.54	55.39	
5,582.23				05/11/10	57.12	55.97	
5,576.60				09/29/10	62.75	61.60	
5,581.14				12/21/10	58.21	57.06	
5,579.53				02/28/11	59.82	58.67	
5,584.17				06/21/11	55.18	54.03	
5,584.80				09/20/11	54.55	53.40	
5,585.68				12/21/11	53.67	52.52	
5,585.24				03/27/12	54.11	52.96	
5,585.26				06/28/12	54.09	52.94	
5,585.16				09/27/12	54.19	53.04	
5,585.25				12/28/12	54.10	52.95	
5,582.84				03/28/13	56.51	55.36	
5,581.79				06/27/13	57.56	56.41	
5,580.89				09/27/13	58.46	57.31	
5,577.45				12/20/13	61.90	60.75	
5,576.01				03/27/14	63.34	62.19	
5,574.08				06/25/14	65.27	64.12	
5,573.20				09/25/14	66.15	65.00	
5,576.13				12/17/14	63.22	62.07	
5,578.19				03/26/15	61.16	60.01	
5,574.85				06/22/15	64.50	63.35	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-21**

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
	5,638.20	5,639.35	1.15				120.92
5,573.05				09/30/15	66.30	65.15	

TW4-21 Water Depth Over Time (ft. blmp)



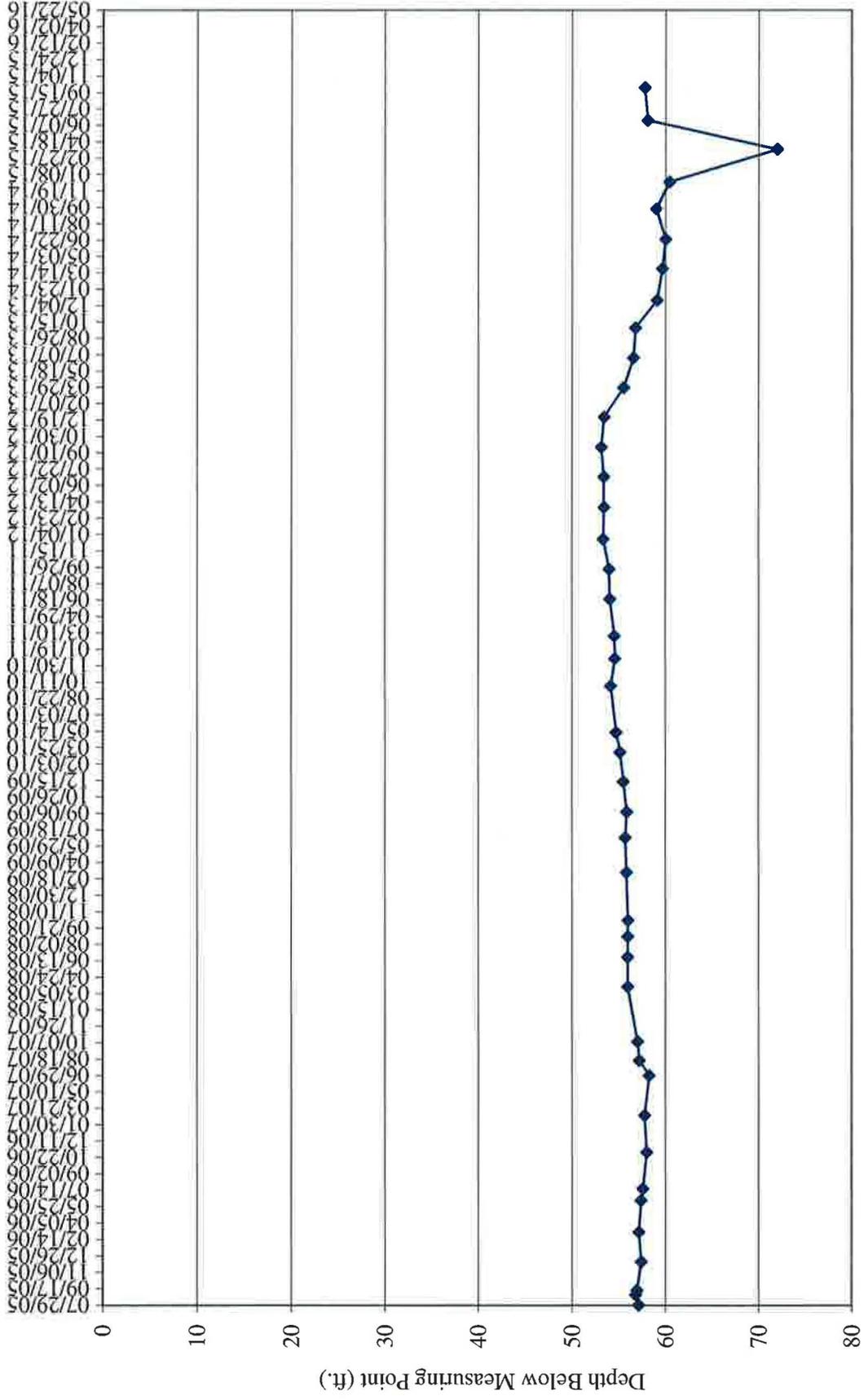
**Water Levels and Data over Time
White Mesa Mill - Well TW4-22**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,627.83	5,629.00	1.17				113.5
5,571.89				07/29/05	57.11	55.94	
5,572.20				08/30/05	56.80	55.63	
5,572.08				09/12/05	56.92	55.75	
5,571.61				12/07/05	57.39	56.22	
5,571.85				03/08/06	57.15	55.98	
5,571.62				06/13/06	57.38	56.21	
5,571.42				07/18/06	57.58	56.41	
5,571.02				11/07/06	57.98	56.81	
5571.24				02/27/07	57.76	56.59	
5,570.75				06/29/07	58.25	57.08	
5,571.82				08/14/07	57.18	56.01	
5,571.99				10/10/07	57.01	55.84	
5,573.05				03/26/08	55.95	54.78	
5,573.04				06/24/08	55.96	54.79	
5,573.04				08/26/08	55.96	54.79	
5,573.02				10/14/08	55.98	54.81	
5,573.19				03/10/09	55.81	54.64	
5,573.32				06/24/09	55.68	54.51	
5,573.17				09/10/09	55.83	54.66	
5,573.52				12/11/09	55.48	54.31	
5,573.88				03/11/10	55.12	53.95	
5,574.29				05/11/10	54.71	53.54	
5,574.88				09/29/10	54.12	52.95	
5,574.44				12/21/10	54.56	53.39	
5,574.49				02/28/11	54.51	53.34	
5,574.97				06/21/11	54.03	52.86	
5,575.06				09/20/11	53.94	52.77	
5,575.69				12/21/11	53.31	52.14	
5,575.61				03/27/12	53.39	52.22	
5,575.62				06/28/12	53.38	52.21	
5,575.90				09/27/12	53.10	51.93	
5,575.59				12/28/12	53.41	52.24	
5,573.50				03/28/13	55.50	54.33	
5,572.45				06/27/13	56.55	55.38	
5,572.25				09/27/13	56.75	55.58	
5,569.93				12/20/13	59.07	57.90	
5,569.36				03/27/14	59.64	58.47	
5,569.02				06/25/14	59.98	58.81	
5,570.00				09/25/14	59.00	57.83	
5,568.60				12/17/14	60.40	59.23	
5,557.00				03/26/15	72.00	70.83	
5,570.93				06/22/15	58.07	56.90	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-22**

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
	5,627.83	5,629.00	1.17				113.5
5,571.24				09/30/15	57.76	56.59	

TW4-22 Water Depth Over Time (ft. blmp)



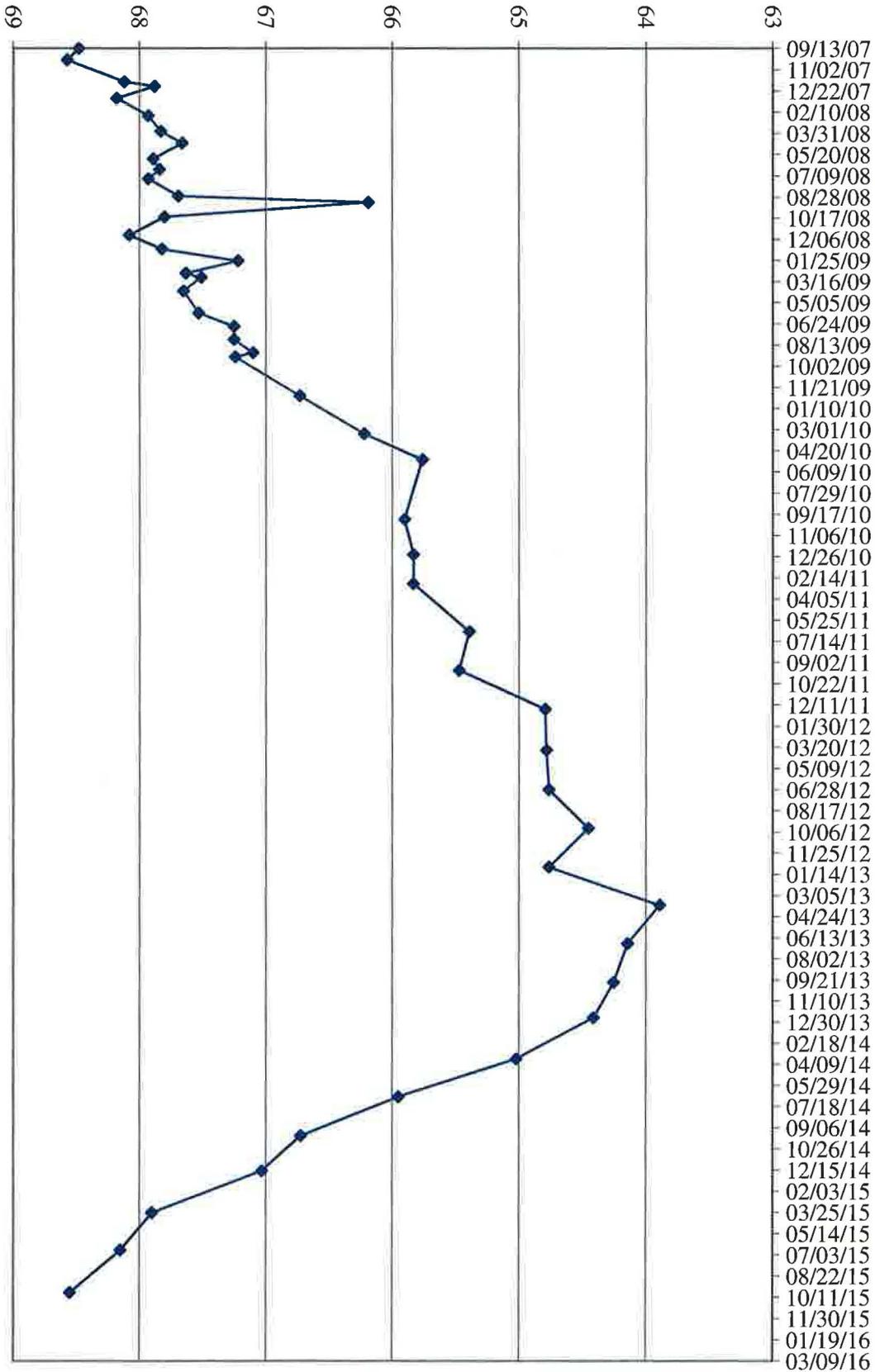
**Water Levels and Data over Time
White Mesa Mill - Well TW4-23**

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
	5,605.77	5,607.37	1.60				113.5
5,538.89				09/13/07	68.48	66.88	
5,538.80				10/10/07	68.57	66.97	
5,539.25				11/30/07	68.12	66.52	
5,539.49				12/11/07	67.88	66.28	
5,539.19				01/08/08	68.18	66.58	
5,539.44				02/18/08	67.93	66.33	
5,539.54				03/26/08	67.83	66.23	
5,539.71				04/23/08	67.66	66.06	
5,539.48				05/30/08	67.89	66.29	
5,539.53				06/24/08	67.84	66.24	
5,539.44				07/16/08	67.93	66.33	
5,539.68				08/26/08	67.69	66.09	
5,541.18				09/10/08	66.19	64.59	
5,539.57				10/14/08	67.80	66.20	
5,539.29				11/26/08	68.08	66.48	
5,539.55				12/29/08	67.82	66.22	
5,540.15				01/26/09	67.22	65.62	
5,539.74				02/24/09	67.63	66.03	
5,539.86				03/06/09	67.51	65.91	
5,539.72				04/07/09	67.65	66.05	
5,539.84				05/29/09	67.53	65.93	
5,540.12				06/30/09	67.25	65.65	
5,540.12				07/31/09	67.25	65.65	
5,540.27				08/31/09	67.10	65.50	
5,540.13				09/10/09	67.24	65.64	
5,540.64				12/11/09	66.73	65.13	
5,541.15				03/11/10	66.22	64.62	
5,541.61				05/11/10	65.76	64.16	
5,541.47				09/29/10	65.90	64.30	
5,541.54				12/21/10	65.83	64.23	
5,541.54				02/28/11	65.83	64.23	
5,541.98				06/21/11	65.39	63.79	
5,541.90				09/20/11	65.47	63.87	
5,542.58				12/21/11	64.79	63.19	
5,542.59				03/27/12	64.78	63.18	
5,542.61				06/28/12	64.76	63.16	
5,542.92				09/27/12	64.45	62.85	
5,542.61				12/28/12	64.76	63.16	
5,543.48				03/28/13	63.89	62.29	
5,543.23				06/27/13	64.14	62.54	
5,543.12				09/27/13	64.25	62.65	
5,542.96				12/20/13	64.41	62.81	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-23**

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
	5,605.77	5,607.37	1.60				113.5
5,542.35				03/27/14	65.02	63.42	
5,541.42				06/25/14	65.95	64.35	
5,540.65				09/25/14	66.72	65.12	
5,540.34				12/17/14	67.03	65.43	
5,539.47				03/26/15	67.90	66.30	
5,539.22				06/22/15	68.15	66.55	
5,538.82				09/30/15	68.55	66.95	

Depth Below Measuring Point (ft.)



TW4-23 Water Depth Over Time (ft. blmp)

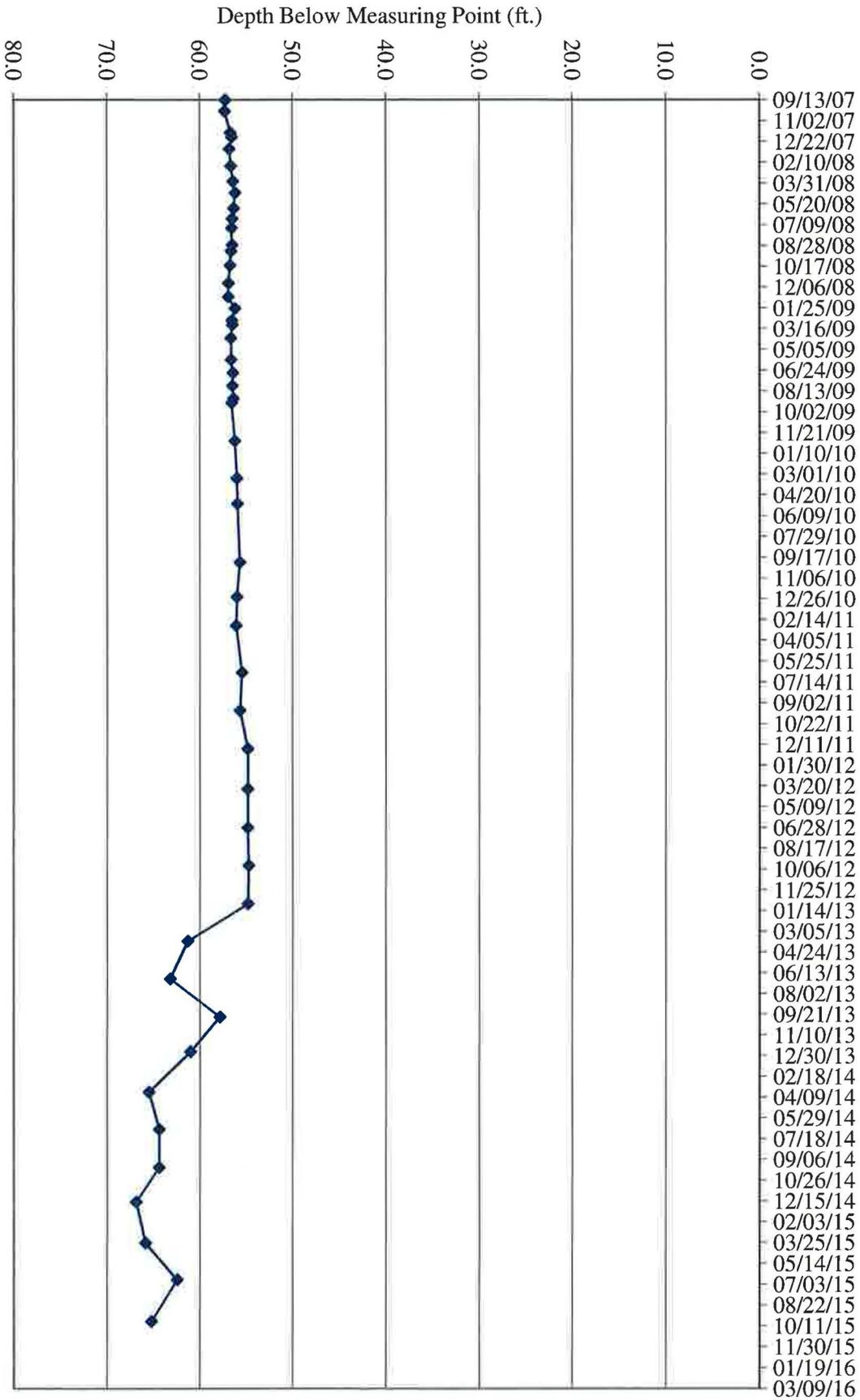
**Water Levels and Data over Time
White Mesa Mill - Well TW4-24**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,625.70	5,627.83	2.13				113.5
5,570.61				09/13/07	57.22	55.09	
5,570.53				10/10/07	57.30	55.17	
5,571.16				11/30/07	56.67	54.54	
5,571.30				12/11/07	56.53	54.40	
5,571.03				01/08/08	56.80	54.67	
5,571.22				02/18/08	56.61	54.48	
5,571.43				03/26/08	56.40	54.27	
5,571.68				04/23/08	56.15	54.02	
5571.52				05/30/08	56.31	54.18	
5,571.34				06/24/08	56.49	54.36	
5,571.28				07/16/08	56.55	54.42	
5,571.34				08/26/08	56.49	54.36	
5,571.23				09/10/08	56.60	54.47	
5,571.12				10/14/08	56.71	54.58	
5,570.95				11/26/08	56.88	54.75	
5,570.92				12/29/08	56.91	54.78	
5,571.65				01/26/09	56.18	54.05	
5,571.31				02/24/09	56.52	54.39	
5,571.37				03/06/09	56.46	54.33	
5,571.21				04/07/09	56.62	54.49	
5,571.23				05/29/09	56.60	54.47	
5,571.42				06/30/09	56.41	54.28	
5,571.38				07/31/09	56.45	54.32	
5,571.48				08/31/09	56.35	54.22	
5,571.28				09/10/09	56.55	54.42	
5,571.64				12/11/09	56.19	54.06	
5,571.86				03/11/10	55.97	53.84	
5,571.91				05/11/10	55.92	53.79	
5,572.18				09/29/10	55.65	53.52	
5,571.86				12/21/10	55.97	53.84	
5,571.78				02/28/11	56.05	53.92	
5,572.40				06/21/11	55.43	53.30	
5,572.19				09/20/11	55.64	53.51	
5,573.02				12/21/11	54.81	52.68	
5,573.03				03/27/12	54.80	52.67	
5,573.02				06/28/12	54.81	52.68	
5,573.13				09/27/12	54.70	52.57	
5,573.05				12/28/12	54.78	52.65	
5,566.53				03/28/13	61.30	59.17	
5,564.63				06/27/13	63.20	61.07	
5,570.01				09/27/13	57.82	55.69	
5,566.85				12/20/13	60.98	58.85	
5,562.33				03/27/14	65.50	63.37	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-24**

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
	5,625.70	5,627.83	2.13				113.5
5,563.43				06/25/14	64.40	62.27	
5,563.43				09/25/14	64.40	62.27	
5,560.97				12/17/14	66.86	64.73	
5,561.95				03/26/15	65.88	63.75	
5,565.38				06/22/15	62.45	60.32	
5,562.61				09/30/15	65.22	63.09	

TW4-24 Water Depth Over Time (ft. blmp)



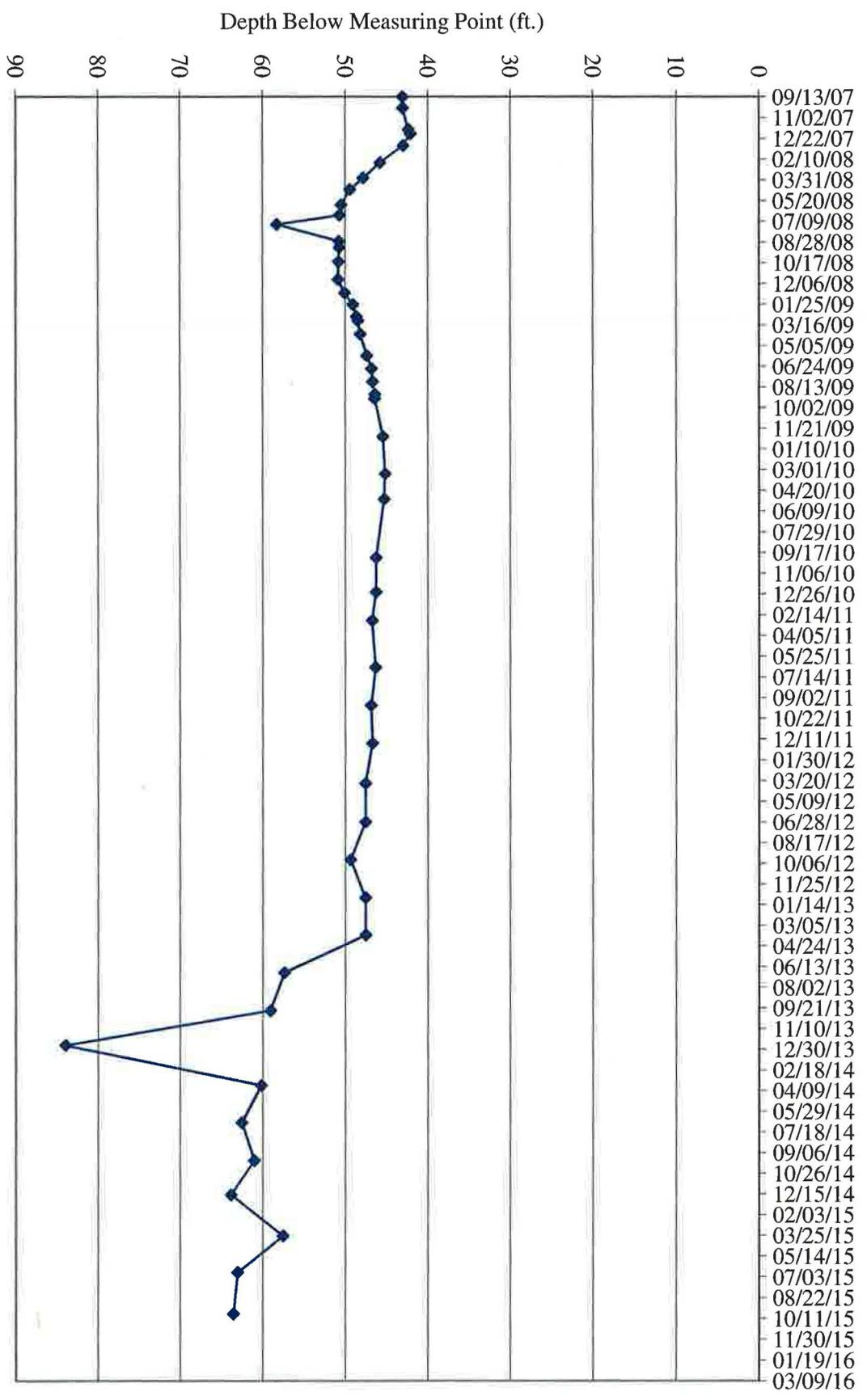
**Water Levels and Data over Time
White Mesa Mill - Well TW4-25**

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
	5,627.83	5,644.91	17.08				134.8
5,601.86				09/13/07	43.05	25.97	
5,601.89				10/10/07	43.02	25.94	
5,602.57				11/30/07	42.34	25.26	
5,602.82				12/11/07	42.09	25.01	
5,601.94				01/08/08	42.97	25.89	
5,599.13				02/18/08	45.78	28.70	
5,597.11				03/26/08	47.80	30.72	
5,595.51				04/23/08	49.40	32.32	
5594.42				05/30/08	50.49	33.41	
5,594.26				06/24/08	50.65	33.57	
5,586.67				07/16/08	58.24	41.16	
5,594.17				08/26/08	50.74	33.66	
5,594.23				09/10/08	50.68	33.60	
5,594.12				10/14/08	50.79	33.71	
5,594.06				11/26/08	50.85	33.77	
5,594.87				12/29/08	50.04	32.96	
5,595.89				01/26/09	49.02	31.94	
5,596.27				02/24/09	48.64	31.56	
5,596.47				03/06/09	48.44	31.36	
5,596.74				04/07/09	48.17	31.09	
5,597.55				05/29/09	47.36	30.28	
5,598.11				06/30/09	46.80	29.72	
5,598.22				07/31/09	46.69	29.61	
5,598.52				08/31/09	46.39	29.31	
5,598.49				09/10/09	46.42	29.34	
5,599.48				12/11/09	45.43	28.35	
5,599.75				03/11/10	45.16	28.08	
5,599.63				05/11/10	45.28	28.20	
5,598.68				09/29/10	46.23	29.15	
5,598.66				12/21/10	46.25	29.17	
5,598.18				02/28/11	46.73	29.65	
5,598.61				06/21/11	46.30	29.22	
5,598.08				09/20/11	46.83	29.75	
5,598.23				12/21/11	46.68	29.60	
5,597.41				03/27/12	47.50	30.42	
5,597.41				06/28/12	47.50	30.42	
5,595.60				09/27/12	49.31	32.23	
5,597.41				12/28/12	47.50	30.42	
5,597.43				03/28/13	47.48	30.40	
5,587.61				06/27/13	57.30	40.22	
5,585.91				09/27/13	59.00	41.92	
5,561.00				12/20/13	83.91	66.83	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-25**

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
	5,627.83	5,644.91	17.08				134.8
5,584.79				03/27/14	60.12	43.04	
5,582.44				06/25/14	62.47	45.39	
5,583.95				09/25/14	60.96	43.88	
5,581.13				12/17/14	63.78	46.70	
5,587.40				03/26/15	57.51	40.43	
5,581.91				06/22/15	63.00	45.92	
5,581.40				09/30/15	63.51	46.43	

TW4-25 Water Depth Over Time (ft. blmp)



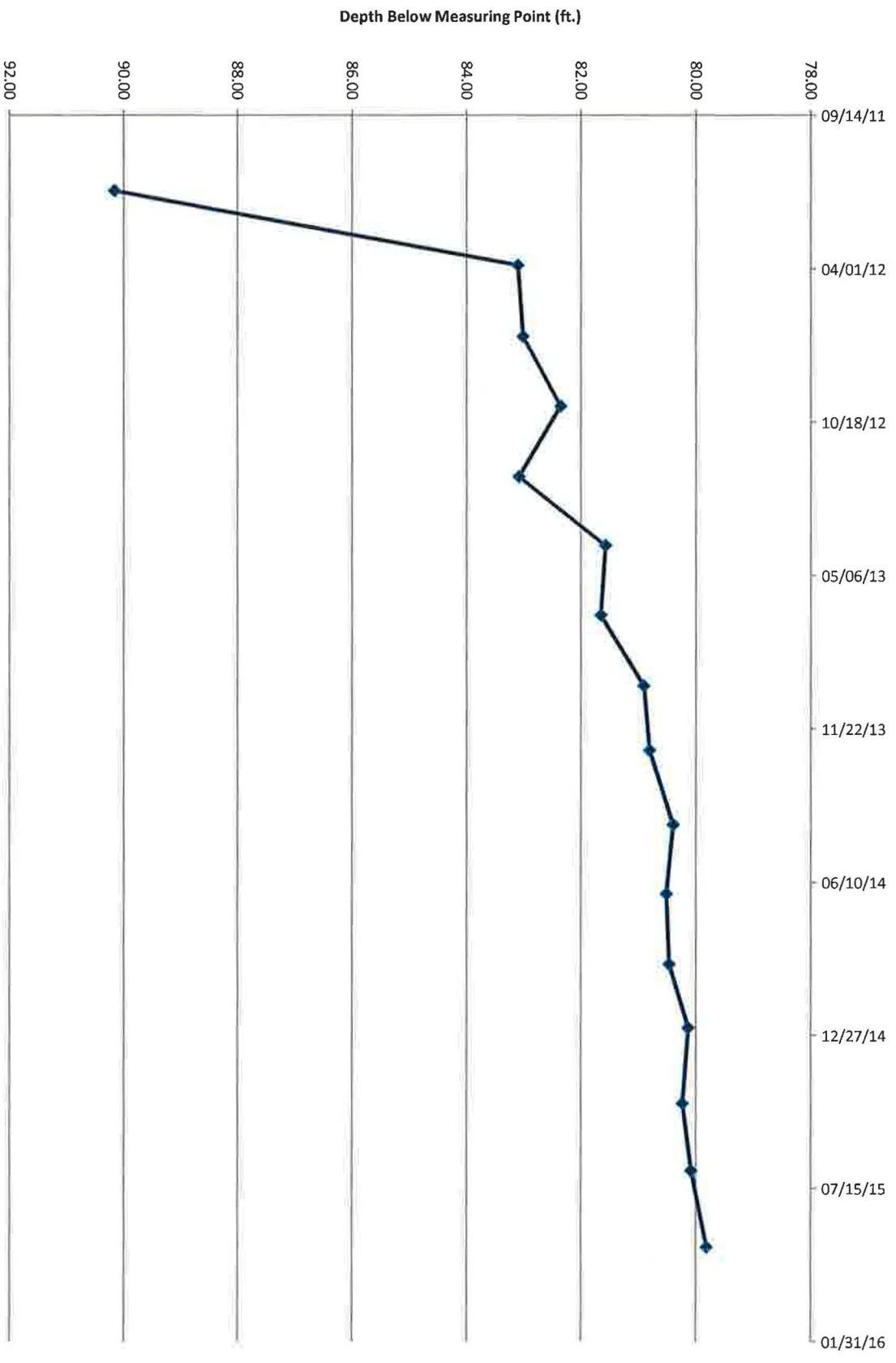
**Water Levels and Data over Time
White Mesa Mill - Well TW4-26**

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
	5,599.98	5,601.68	1.70				86
5,536.90				06/14/10	64.78	63.08	
5,536.95				09/29/10	64.73	63.03	
5,537.17				12/21/10	64.51	62.81	
5,537.16				02/28/11	64.52	62.82	
5,537.57				06/21/11	64.11	62.41	
5,537.59				09/20/11	64.09	62.39	
5,538.16				12/21/11	63.52	61.82	
5,538.18				03/27/12	63.50	61.80	
5,538.23				06/28/12	63.45	61.75	
5,538.57				09/27/12	63.11	61.41	
5,538.20				12/28/12	63.48	61.78	
5,539.13				03/28/13	62.55	60.85	
5,539.00				06/27/13	62.68	60.98	
5,538.94				09/27/13	62.74	61.04	
5,538.97				12/20/13	62.71	61.01	
5,538.53				03/27/14	63.15	61.45	
5,537.85				06/25/14	63.83	62.13	
5,537.33				09/25/14	64.35	62.65	
5,537.14				12/17/14	64.54	62.84	
5,536.43				03/26/15	65.25	63.55	
5,536.16				06/22/15	65.52	63.82	
5,535.76				09/30/15	65.92	64.22	

**Water Levels and Data over Time
White Mesa Mill - Well TW4-27**

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
	5,606.19	5,607.94	1.75				96
5,517.78				12/21/11	90.16	88.41	
5,524.84				03/27/12	83.10	81.35	
5,524.93				06/28/12	83.01	81.26	
5,525.59				09/27/12	82.35	80.60	
5,524.86				12/28/12	83.08	81.33	
5,526.37				03/28/13	81.57	79.82	
5,526.29				06/27/13	81.65	79.90	
5,527.04				09/27/13	80.90	79.15	
5,527.14				12/20/13	80.80	79.05	
5,527.55				03/27/14	80.39	78.64	
5,527.43				06/25/14	80.51	78.76	
5,527.48				09/25/14	80.46	78.71	
5,527.81				12/17/14	80.13	78.38	
5,527.71				03/26/15	80.23	78.48	
5,527.86				06/22/15	80.08	78.33	
5,528.13				09/30/15	79.81	78.06	

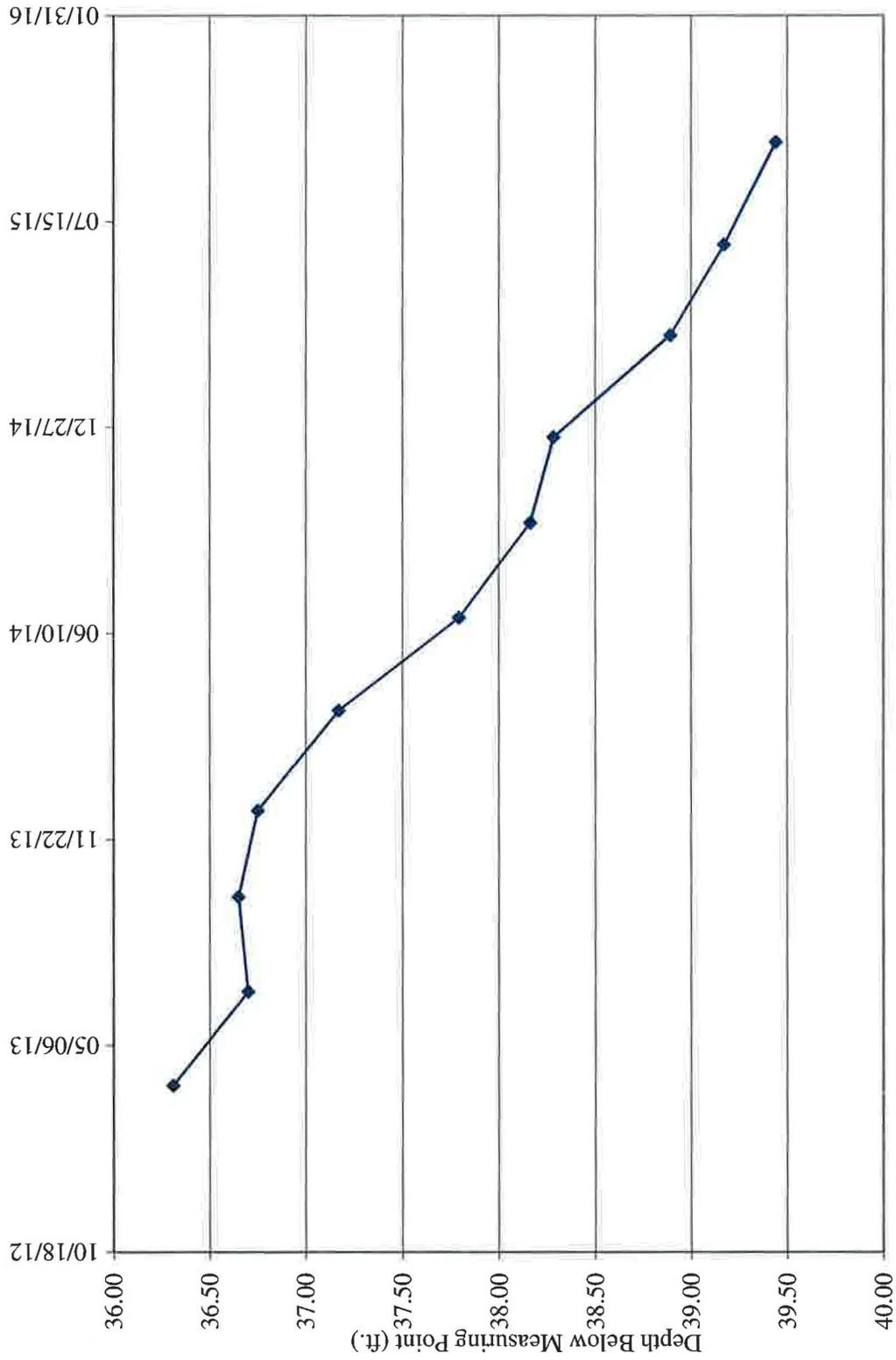
TW4-27 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-28**

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
	5,613.52	5,617.00	3.48				105
5,580.69				03/28/13	36.31	32.83	
5,580.30				06/27/13	36.70	33.22	
5,580.35				09/27/13	36.65	33.17	
5,580.25				12/20/13	36.75	33.27	
5,579.83				03/27/14	37.17	33.69	
5,579.21				06/25/14	37.79	34.31	
5,578.84				09/25/14	38.16	34.68	
5,578.72				12/17/14	38.28	34.80	
5,578.11				03/26/15	38.89	35.41	
5,577.83				06/22/15	39.17	35.69	
5,577.56				09/30/15	39.44	35.96	

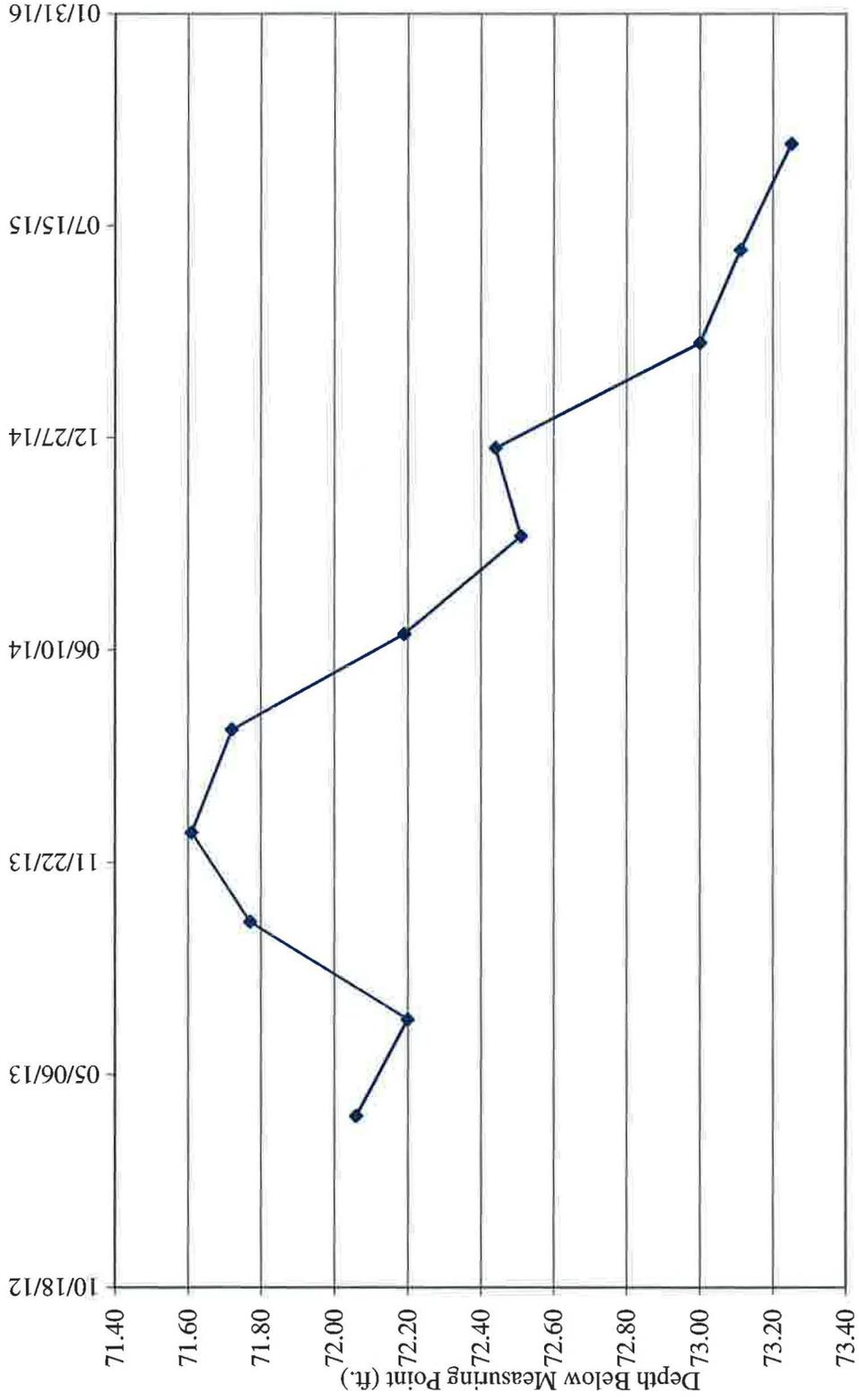
TW4-28 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-29

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
	5,602.56	5,606.04	3.48				105
5,533.98				03/28/13	72.06	68.58	
5,533.84				06/27/13	72.20	68.72	
5,534.27				09/27/13	71.77	68.29	
5,534.43				12/20/13	71.61	68.13	
5,534.32				03/27/14	71.72	68.24	
5,533.85				06/25/14	72.19	68.71	
5,533.53				09/25/14	72.51	69.03	
5,533.60				12/17/14	72.44	68.96	
5,533.04				03/26/15	73.00	69.52	
5,532.93				06/22/15	73.11	69.63	
5,532.79				09/30/15	73.25	69.77	

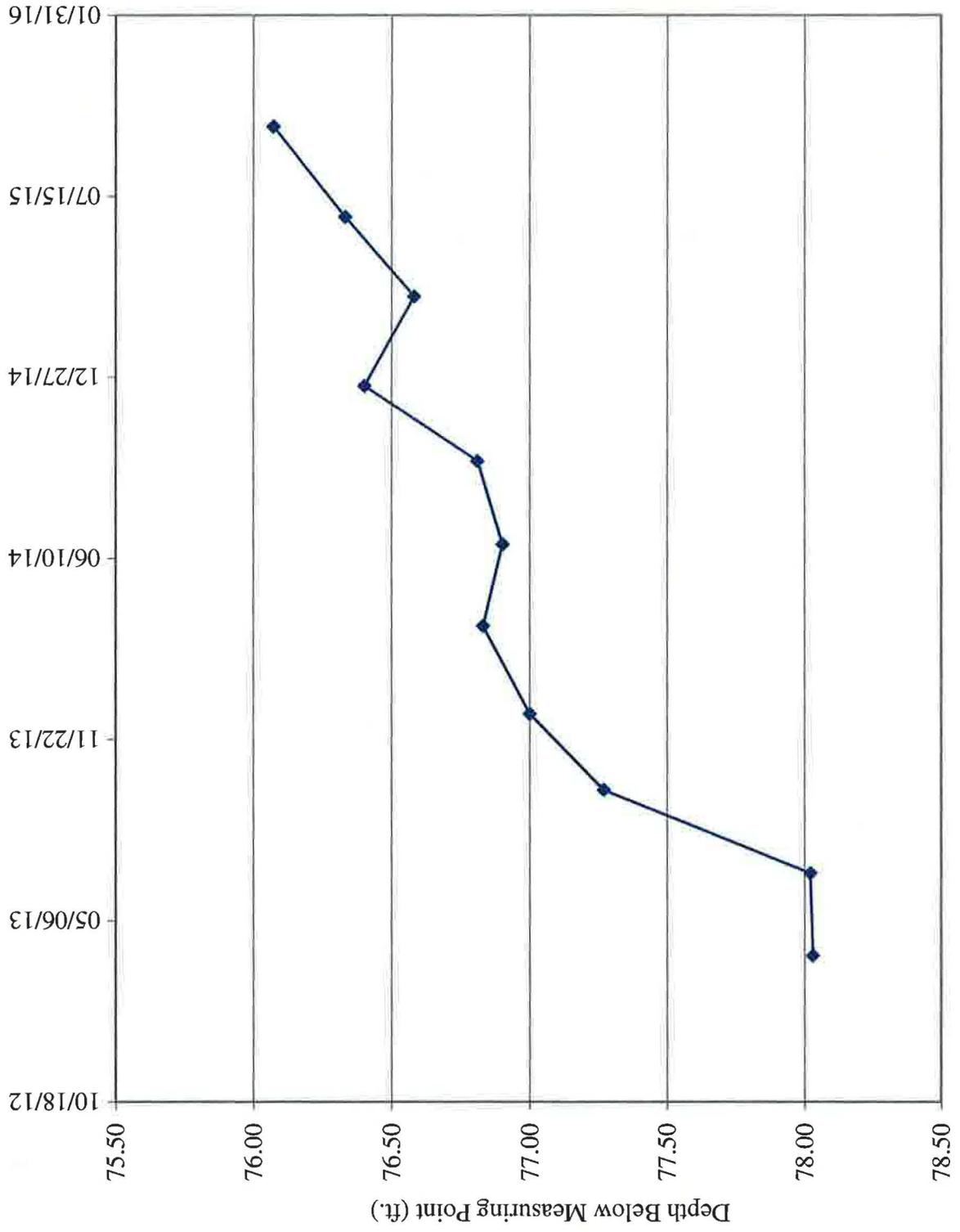
TW4-29 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-30

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
	5,599.33	5,602.81	3.48				105
5,524.78				03/28/13	78.03	74.55	
5,524.79				06/27/13	78.02	74.54	
5,525.54				09/27/13	77.27	73.79	
5,525.81				12/20/13	77.00	73.52	
5,525.98				03/27/14	76.83	73.35	
5,525.91				06/25/14	76.90	73.42	
5,526.00				09/25/14	76.81	73.33	
5,526.41				12/17/14	76.40	72.92	
5,526.23				03/26/15	76.58	73.10	
5,526.48				06/22/15	76.33	72.85	
5,526.74				09/30/15	76.07	72.59	

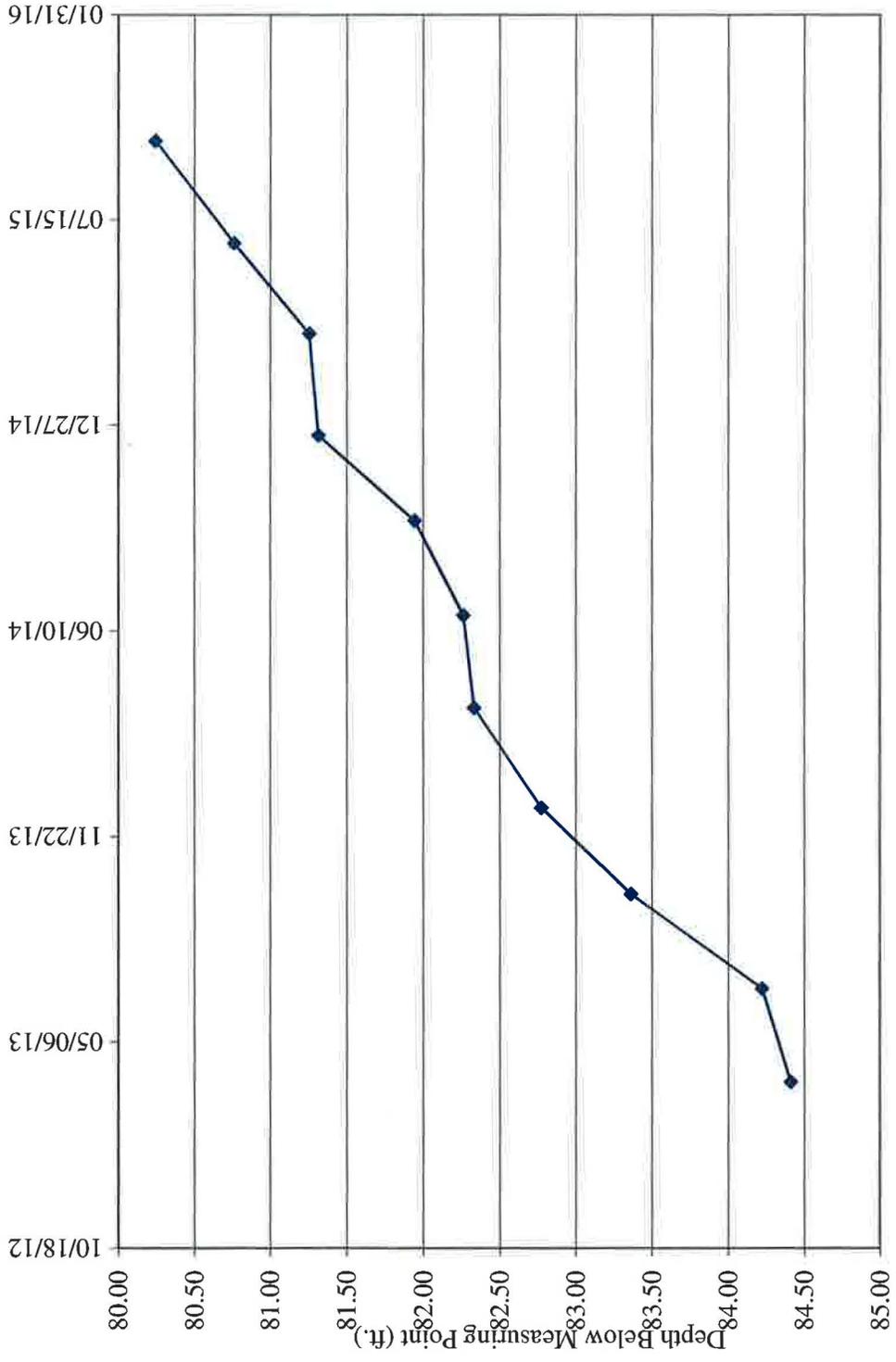
TW4-30 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-31

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
	5,601.10	5,604.58	3.48				105
5,520.17				03/28/13	84.41	80.93	
5,520.36				06/27/13	84.22	80.74	
5,521.22				09/27/13	83.36	79.88	
5,521.81				12/20/13	82.77	79.29	
5,522.25				03/27/14	82.33	78.85	
5,522.32				06/25/14	82.26	78.78	
5,522.64				09/25/14	81.94	78.46	
5,523.27				12/17/14	81.31	77.83	
5,523.33				03/26/15	81.25	77.77	
5,523.82				06/22/15	80.76	77.28	
5,524.34				09/30/15	80.24	76.76	

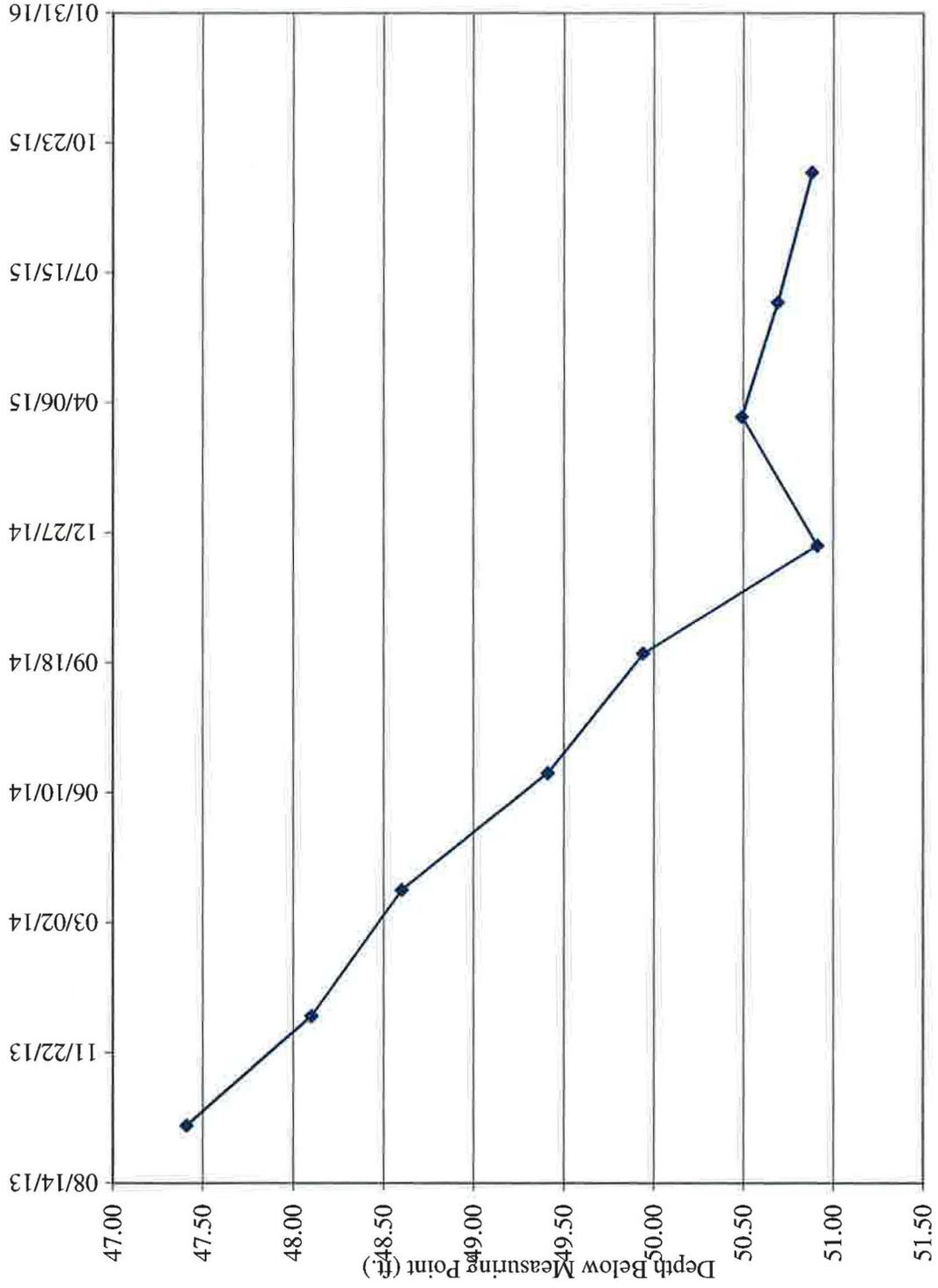
TW4-31 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-32**

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
	5,610.20	5,611.84	1.64				113
5,564.43				09/27/13	47.41	45.77	
5,563.74				12/20/13	48.10	46.46	
5,563.24				03/27/14	48.60	46.96	
5,562.43				06/25/14	49.41	47.77	
5,561.90				09/25/14	49.94	48.30	
5,560.93				12/17/14	50.91	49.27	
5,561.35				03/26/15	50.49	48.85	
5,561.15				06/22/15	50.69	49.05	
5,560.96				09/30/15	50.88	49.24	

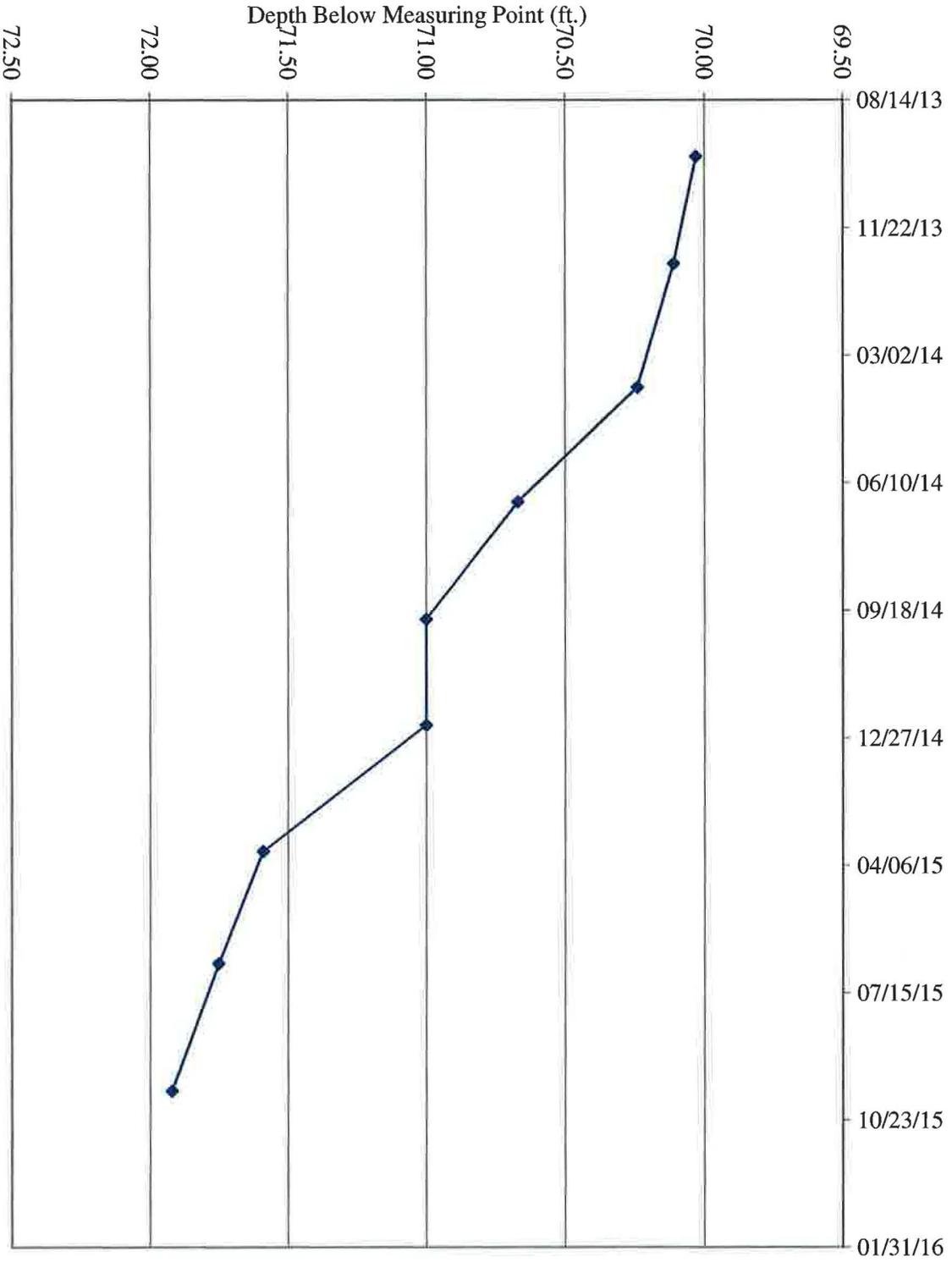
TW4-32 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-33

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
	5,605.20	5,606.73	1.53				84.7
5,536.70				09/27/13	70.03	68.50	
5,536.62				12/20/13	70.11	68.58	
5,536.49				03/27/14	70.24	68.71	
5,536.06				06/25/14	70.67	69.14	
5,535.73				09/25/14	71.00	69.47	
5,535.73				12/17/14	71.00	69.47	
5,535.14				03/26/15	71.59	70.06	
5,534.98				06/22/15	71.75	70.22	
5,534.81				09/30/15	71.92	70.39	

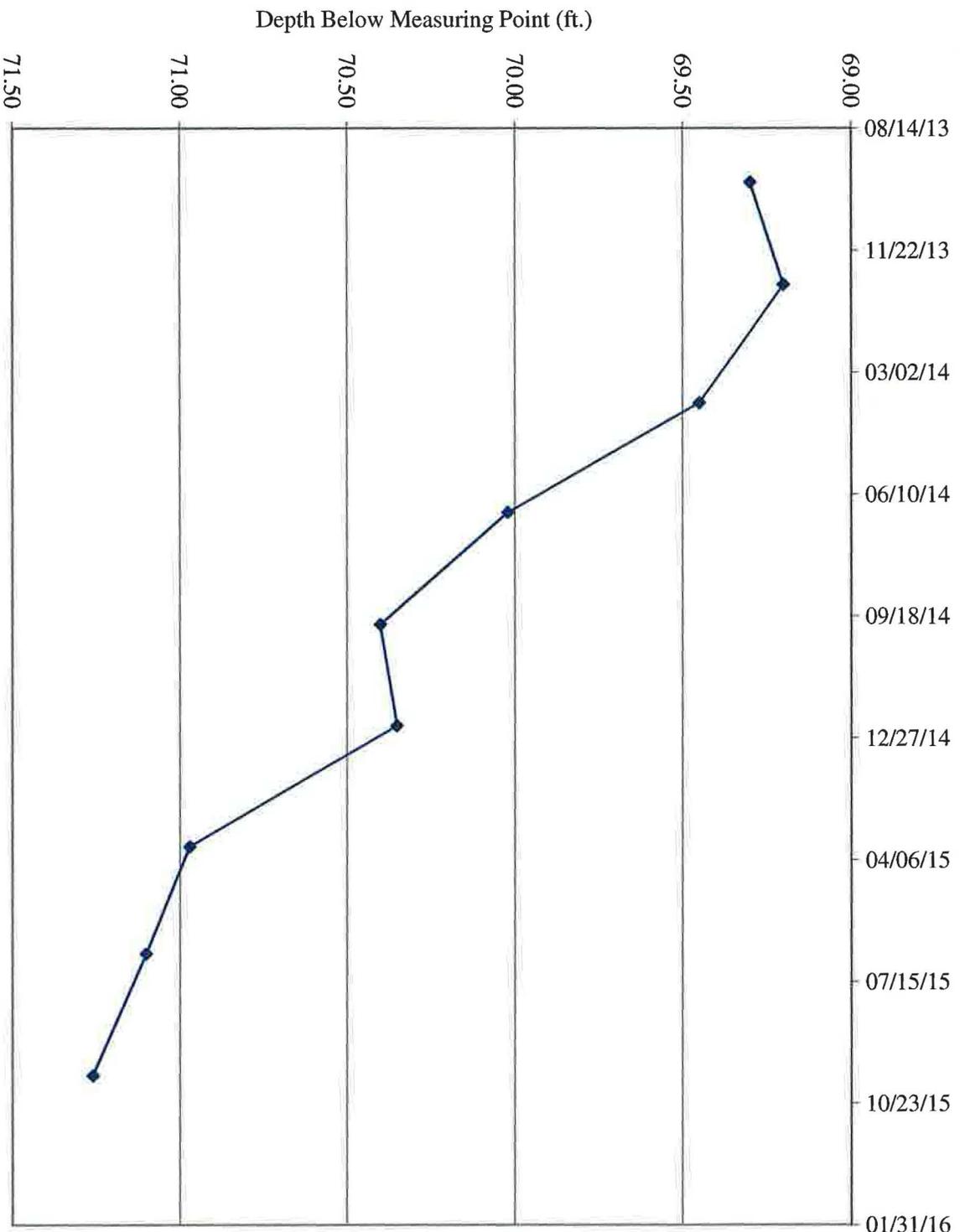
TW4-33 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-34

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
	5,601.60	5,603.34	1.74				94
5,534.04				09/27/13	69.30	67.56	
5,534.14				12/20/13	69.20	67.46	
5,533.89				03/27/14	69.45	67.71	
5,533.32				06/25/14	70.02	68.28	
5,532.94				09/25/14	70.40	68.66	
5,532.99				12/17/14	70.35	68.61	
5,532.37				03/26/15	70.97	69.23	
5,532.24				06/22/15	71.10	69.36	
5,532.08				09/30/15	71.26	69.52	

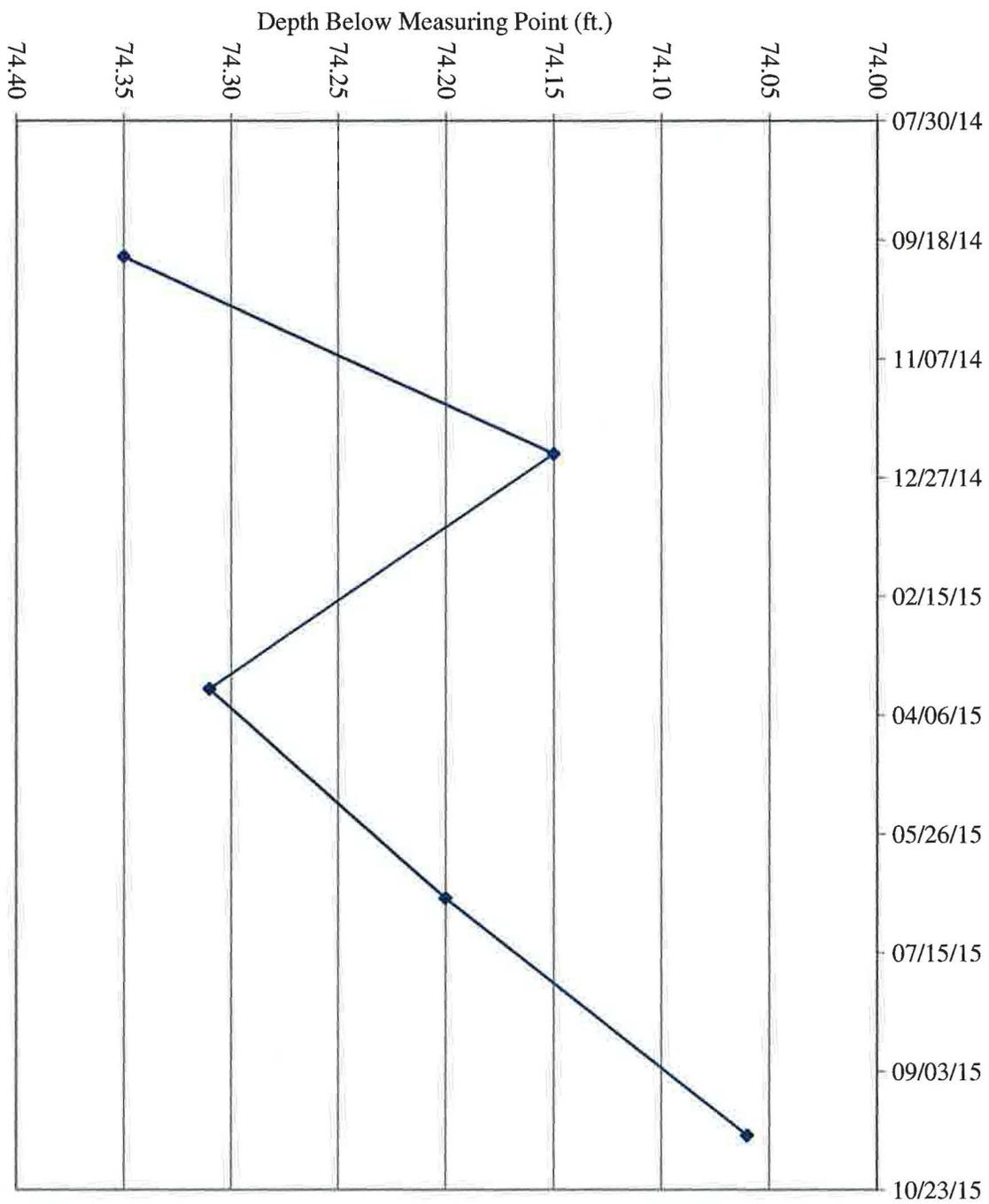
TW4-34 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-35

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
	5,598.67	5,599.87	1.20				85.3
5,525.52				09/25/14	74.35	73.15	
5,525.72				12/17/14	74.15	72.95	
5,525.56				03/26/15	74.31	73.11	
5,525.67				06/22/15	74.20	73.00	
5,525.81				09/30/15	74.06	72.86	

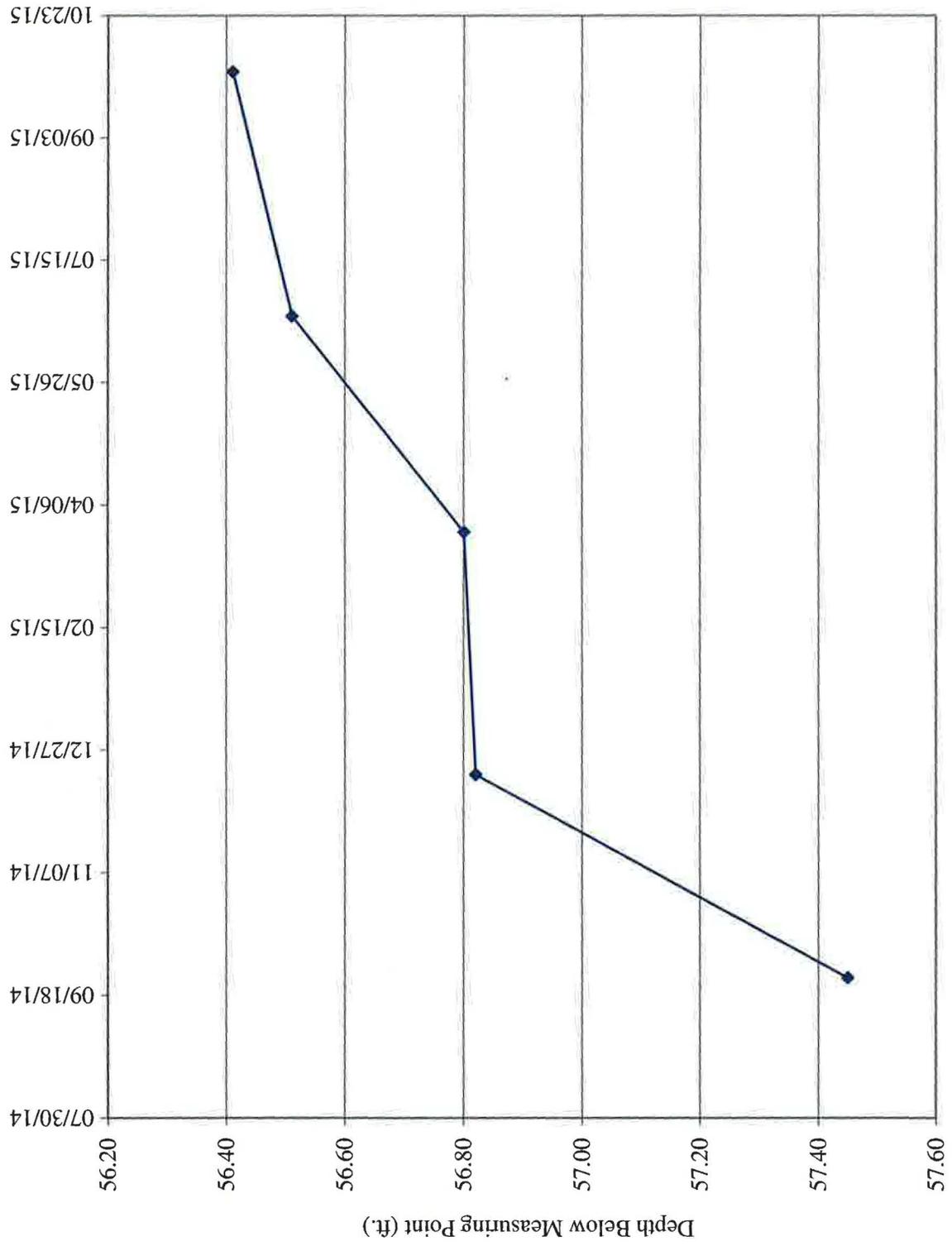
TW4-35 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-36

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
	5,615.18	5,616.59	1.41				98
5,559.14				09/25/14	57.45	56.04	
5,559.77				12/17/14	56.82	55.41	
5,559.79				03/26/15	56.80	55.39	
5,560.08				06/22/15	56.51	55.10	
5,560.18				09/30/15	56.41	55.00	

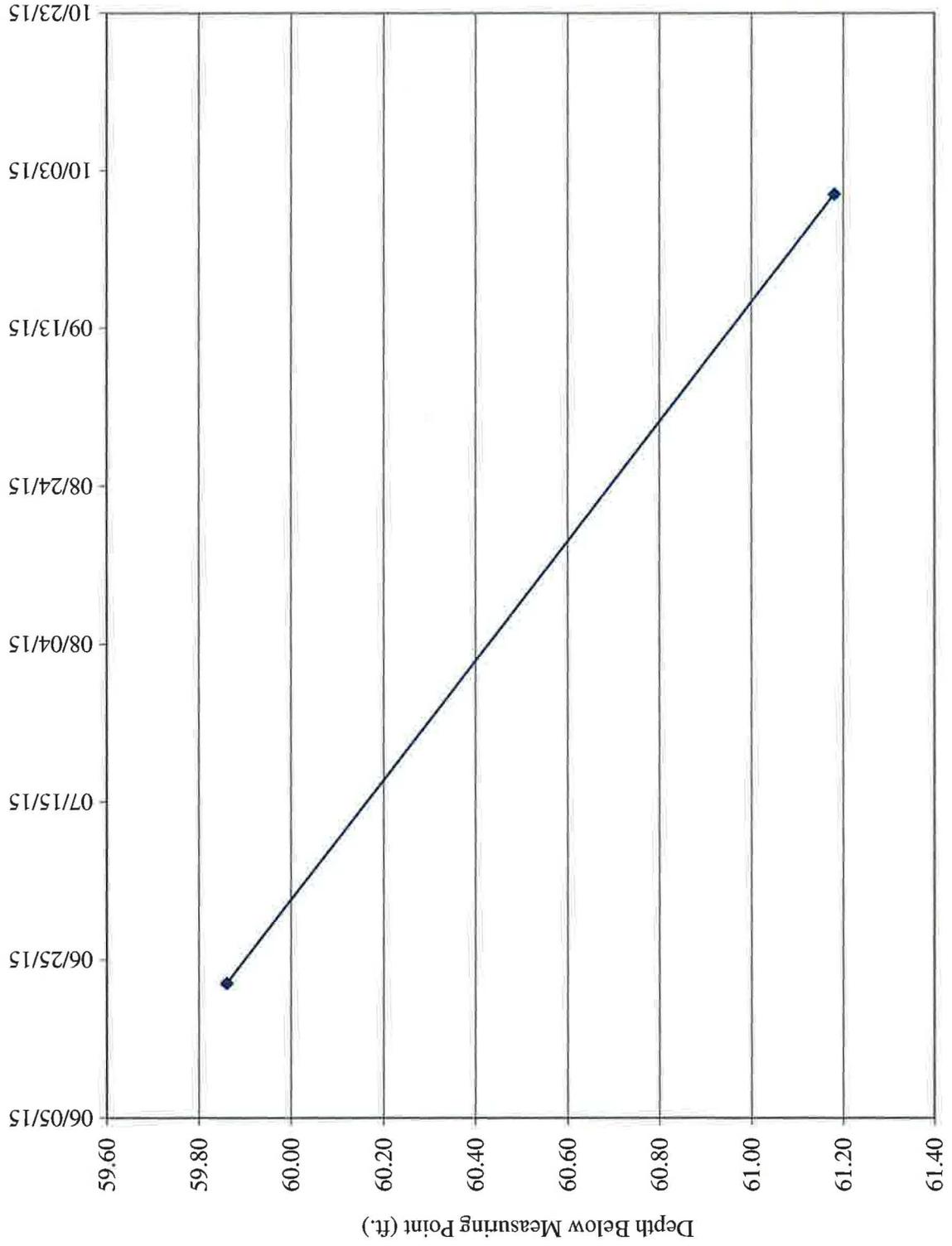
TW4-36 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-37

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
	5,630.13	5,631.85	1.72				112
5,571.99				06/22/15	59.86	58.14	
5,570.67				09/30/15	61.18	59.46	

TW4-37 Water Depth Over Time (ft. blmp)



Tab G

Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells Over Time

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	MW-4						TW4-15 (formerly MW-26)					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	1307110	3370.0	4947411.4	1.667E+10	16673	36.8	930510	1660.0	3521980.4	5.846E+09	5846	12.9
Q2 2007	81230	2000.0	307455.6	614911100	615	1.4	54400	300.0	205904.0	61771200	62	0.1
Q3 2007	100700	2600.0	381149.5	990988700	991	2.2	72080	1400.0	272822.8	381951920	382	0.8
Q4 2007	90830	2300.0	343791.6	790720565	791	1.7	61750	2000.0	233723.8	467447500	467	1.0
Q1 2008	83950	2400.0	317750.8	762601800	763	1.7	47780	930.0	180847.3	168187989	168	0.4
Q2 2008	62780	2500.0	237622.3	594055750	594	1.3	44840	1300.0	169719.4	220635220	221	0.5
Q3 2008	81400	1800.0	308099.0	554578200	555	1.2	61280	630.0	231944.8	146125224	146	0.3
Q4 2008	91320	1700.0	345646.2	587598540	588	1.3	55700	630.0	210824.5	132819435	133	0.3
Q1 2009	90710	2200.0	343337.4	755342170	755	1.7	52970	950.0	200491.5	190466878	190	0.4
Q2 2009	450040	1800.0	1703401.4	3.066E+09	3066	6.8	58050	410.0	219719.3	90084893	90	0.2
Q3 2009	90420	2000.0	342239.7	684479400	684	1.5	57610	850.0	218053.9	185345773	185	0.4
Q4 2009	322380	1800.0	1220208.3	2.196E+09	2196	4.8	61960	1100.0	234518.6	257970460	258	0.6
Q1 2010	68125	1600.0	257853.1	412565000	413	0.9	61320	780.0	232096.2	181035036	181	0.4
Q2 2010	84005.33	2100.0	317960.2	667716366	668	1.5	60500	1900.0	228992.5	435085750	435	1.0
Q3 2010	79859.1	1900.0	302266.7	574306718	574	1.3	63850	2200.0	241672.3	531678950	532	1.2
Q4 2010	90042.2	1500.0	340809.7	511214591	511	1.1	60180	970.0	227781.3	220947861	221	0.5
Q1 2011	76247.6	1700.0	288597.2	490615182	491	1.1	55130	450.0	208667.1	93900173	94	0.2
Q2 2011	85849.3	1700.0	324939.6	552397321	552	1.2	55800.6	1800.0	211205.3	380169488	380	0.8
Q3 2011	85327.7	1700.0	322965.3	549041086	549	1.2	65618	720.0	248364.1	178822174	179	0.4
Q4 2011	89735.0	1600.0	339647.0	543435160	543	1.2	50191.3	1800.0	189974.1	341953327	342	0.8
Q1 2012	90376.4	1500.0	342074.7	513112011	513	1.1	31440.1	2400.0	119000.8	285601868	286	0.6
Q2 2012	90916.5	1400.0	344118.8	481766269	482	1.1	26701.2	3000.0	101064.1	303192353	303	0.7
Q3 2012	91607.0	1500.0	346732.5	520098743	520	1.1	25246	3100.0	95556.1	296223941	296	0.7
Q4 2012	78840.0	1300.0	298409.4	387932220	388	0.9	30797	1200.0	116566.6	139879974	140	0.3
Q1 2013	62943.7	1670.0	238241.9	397863981	398	0.9	22650.7	2120.0	85732.9	181753747	182	0.4
Q2 2013	71187.3	1490.0	269443.9	401471456	401	0.9	25343.4	4030.0	95924.8	386576819	387	0.9
Q3 2013	72898.8	1520.0	275922.0	419401376	419	0.9	25763	2940.0	97513.0	286688088	287	0.6
Q4 2013	70340.4	1410.0	266238.4	375396164	375	0.8	24207.6	1410.0	91625.8	129192330	129	0.3
Q1 2014	69833.8	1390.0	264320.9	367406097	367	0.8	23263.1	1400.0	88050.8	123271167	123	0.3
Q2 2014	71934.9	1390.0	272273.6	378460299	378	0.8	23757.5	1960.0	89922.1	176247390	176	0.4
Q3 2014	74788.2	1490.0	283073.3	421779272	422	0.9	24062.4	2120.0	91076.2	193081510	193	0.4
Q4 2014	63093.0	1440.0	238807.0	343882087	344	0.8	21875.8	2090.0	82799.9	173051797	173	0.4
Q1 2015	76454.3	1400.0	289379.5	405131336	405	0.9	24004.9	1980.0	90858.5	179899922	180	0.4
Q2 2015	60714.7	1300.0	229805.1	298746681	299	0.7	27804.6	1980.0	105240.4	208376014	208	0.5
Q3 2015	89520.8	1290.0	338836.2	437098734	437	1.0	21042.0	2350.0	79644.0	187163330	187	0.4
Totals	4647510.98					85.4	2409479.2					30.3

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	TW4-19						TW4-20					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	6768986	2660	25620612.0	6.815E+10	68151	150.2	642290	16240	2431067.7	3.948E+10	39481	87.0
Q2 2007	605400	8	2291439.0	18331512	18	0.0	163520	1800	618923.2	1.114E+09	1114	2.5
Q3 2007	316080	1100	1196362.8	1.316E+09	1316	2.9	70360	5200	266312.6	1.385E+09	1385	3.1
Q4 2007	334350	1100	1265514.8	1.392E+09	1392	3.1	63630	9000	240839.6	2.168E+09	2168	4.8
Q1 2008	304784	1800	1153607.4	2.076E+09	2076	4.6	66520	13000	251778.2	3.273E+09	3273	7.2
Q2 2008	380310	1000	1439473.4	1.439E+09	1439	3.2	39360	30000	148977.6	4.469E+09	4469	9.9
Q3 2008	529020	3600	2002340.7	7.208E+09	7208	15.9	53260	21000	201589.1	4.233E+09	4233	9.3
Q4 2008	589620	4200	2231711.7	9.373E+09	9373	20.7	50230	1000	190120.6	190120550	190	0.4
Q1 2009	469100	1100	1775543.5	1.953E+09	1953	4.3	52050	8200	197009.3	1.615E+09	1615	3.6
Q2 2009	450040	990	1703401.4	1.686E+09	1686	3.7	49270	6800	186487.0	1.268E+09	1268	2.8
Q3 2009	200650	6600	759460.3	5.012E+09	5012	11.1	51030	13000	193148.6	2.511E+09	2511	5.5
Q4 2009	454205	4700	1719165.9	8.08E+09	8080	17.8	208790	15000	790270.2	1.185E+10	11854	26.1
Q1 2010	348550	940	1319261.8	1.24E+09	1240	2.7	14490	3500	54844.7	191956275	192	0.4
Q2 2010	453340	1800	1715891.9	3.089E+09	3089	6.8	39014.86	18000	147671.2	2.658E+09	2658	5.9
Q3 2010	116899.2	2000	442463.5	884926944	885	2.0	39098.3	15000	147987.1	2.22E+09	2220	4.9
Q4 2010	767970.5	1200	2906768.3	3.488E+09	3488	7.7	36752.5	24000	139108.2	3.339E+09	3339	7.4
Q1 2011	454607.9	3400	1720690.9	5.85E+09	5850	12.9	37187.5	31000	140754.7	4.363E+09	4363	9.6
Q2 2011	159238.9	4000	602719.2	2.411E+09	2411	5.3	67907.7	8100	257030.6	2.082E+09	2082	4.6
Q3 2011	141542.6	970	535738.7	519666579	520	1.1	72311.2	6800	273697.9	1.861E+09	1861	4.1
Q4 2011	147647.2	2200	558844.7	1.229E+09	1229	2.7	72089.3	7900	272858.0	2.156E+09	2156	4.8
Q1 2012	148747	650	563007.4	365954807	366	0.8	76306	11000	288818.2	3.177E+09	3177	7.0
Q2 2012	172082.03	460	651330.5	299612022	300	0.7	22956.43	36000	86890.1	3.128E+09	3128	6.9
Q3 2012	171345	950	648540.8	616113784	616	1.4	22025	13000	83364.6	1.084E+09	1084	2.4
Q4 2012	156653	1500	592931.6	889397408	889	2.0	20114	19000	76131.5	1.446E+09	1446	3.2
Q1 2013	210908	4210	798286.8	3.361E+09	3361	7.4	18177	18500	68799.9	1.273E+09	1273	2.8
Q2 2013	226224	2070	856257.8	1.772E+09	1772	3.9	20252.4	26300	76655.3	2.016E+09	2016	4.4
Q3 2013	329460.1	8100	1247006.5	1.01E+10	10101	22.3	19731	26800	74681.8	2.001E+09	2001	4.4
Q4 2013	403974	942	1529041.6	1.44E+09	1440	3.2	19280.2	15700	72975.6	1.146E+09	1146	2.5
Q1 2014	304851	586	1153861.0	676162567	676	1.5	18781.6	17800	71088.4	1.265E+09	1265	2.8
Q2 2014	297660.0	810	1126643.1	912580911	913	2.0	18462.4	22100	69880.2	1.544E+09	1544	3.4
Q3 2014	309742.0	1410	1172373.5	1.653E+09	1653	3.6	17237.9	12400	65245.5	809043599	809	1.8
Q4 2014	198331.0	4310	750682.8	3.235E+09	3235	7.1	16341.8	23300	61853.7	1.441E+09	1441	3.2
Q1 2015	60553.0	4660	229193.1	1.068E+09	1068	2.4	15744.7	19900	59593.7	1.186E+09	1186	2.6
Q2 2015	75102.8	1570	284264.1	446294634	446	1.0	18754.1	17600	70984.3	1.249E+09	1249	2.8
Q3 2015	116503.9	7860	440967.3	3.466E+09	3466	7.6	17657.3	17000	66832.9	1.136E+09	1136	2.5
Totals	17174478.13					345.5	2230983.19					256.5

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	TW4-4						TW4-22					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2010	84513.9	2000.0	319885.1	6.4E+08	640	1.4	NA	NA	NA	NA	NA	NA
Q3 2010	76916.8	2100.0	291130.1	6.1E+08	611	1.3	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	1700.0	328810.9	5.6E+08	559	1.2	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	1800.0	277667.6	5.0E+08	500	1.1	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	1700.0	304066.5	5.2E+08	517	1.1	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	1500.0	369170.0	5.5E+08	554	1.2	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	1500.0	412729.6	6.2E+08	619	1.4	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	1200.0	384619.6	4.6E+08	462	1.0	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	1500.0	332168.2	5.0E+08	498	1.1	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	1600.0	302822.7	4.8E+08	485	1.1	NA	NA	NA	NA	NA	NA
Q4 2012	71596	1400.0	270990.9	3.8E+08	379	0.8	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	1460.0	222243.1	3.2E+08	324	0.7	16677.4	10600.0	63124.0	669113965.4	669.1	1.5
Q2 2013	65603.4	1330.0	248308.9	3.3E+08	330	0.7	25523.2	12500.0	96605.3	1207566400.0	1207.6	2.7
Q3 2013	63515.4	1380.0	240405.8	3.3E+08	332	0.7	25592.9	9640.0	96869.1	933818379.5	933.8	2.1
Q4 2013	60233.6	1360.0	227984.2	3.1E+08	310	0.7	24952.2	13300.0	94444.1	1256106224.1	1256.1	2.8
Q1 2014	58992.9	1260.0	223288.1	2.8E+08	281	0.6	24532.0	12100.0	92853.6	1123528802.0	1123.5	2.5
Q2 2014	60235.3	1220.0	227990.6	2.8E+08	278	0.6	24193.9	12400.0	91573.9	1135516502.6	1135.5	2.5
Q3 2014	69229.4	1320.0	262033.3	3.5E+08	346	0.8	24610.9	12400.0	93152.3	1155087980.6	1155.1	2.5
Q4 2014	64422.6	1130.0	243839.5	2.8E+08	276	0.6	23956.9	12400.0	90676.9	1124393144.6	1124.4	2.5
Q1 2015	36941.3	1350.0	139822.8	1.9E+08	189	0.4	22046.9	12700.0	83447.5	1059783459.6	1059.8	2.3
Q2 2015	68162.8	1280.0	257996.2	3.3E+08	330	0.7	23191.6	8050.0	87780.2	706630658.3	706.6	1.6
Q3 2015	64333.0	1220.0	243500.4	3.0E+08	297	0.7	24619.9	7810.0	93186.3	727785170.9	727.8	1.6
Totals	1619940.3					20.1	259897.8					24.5

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	TW4-24						TW4-25					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2010	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
Q1 2011	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
Q3 2011	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
Q1 2012	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
Q3 2012	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
Q1 2013	144842.6	5.7	548229.2	3124906.7	3.1	0.0	99369.9	0.0	376115.1	0.0	0.0	0.0
Q2 2013	187509.3	17.4	709722.7	12349175.0	12.3	0.0	147310.4	0.0	557569.9	0.0	0.0	0.0
Q3 2013	267703.5	21.8	1013257.7	22089018.9	22.1	0.1	145840.9	0.0	552007.8	0.0	0.0	0.0
Q4 2013	260555.3	32.5	986201.8	32051558.8	32.1	0.1	126576.5	0.0	479092.1	0.0	0.0	0.0
Q1 2014	229063.9	78.5	867006.9	68060038.6	68.1	0.2	129979.2	0.0	491971.3	0.0	0.0	0.0
Q2 2014	216984.1	62.7	821284.8	51494558.1	51.5	0.1	124829.8	0.0	472480.8	0.0	0.0	0.0
Q3 2014	213652.5	76.3	808674.7	61701880.6	61.7	0.1	119663.9	0.0	452927.9	0.0	0.0	0.0
Q4 2014	178468.7	25.8	675504.0	17428004.0	17.4	0.04	107416.1	0.0	406569.9	0.0	0.0	0.0
Q1 2015	92449.3	49.2	349920.6	17216093.5	17.2	0.04	71452.4	0.0	270447.3	0.0	0.0	0.0
Q2 2015	62664.2	4.28	237184.0	1015147.5	1.0	0.002	91985.3	0.0	348164.4	0.0	0.0	0.0
Q3 2015	66313.2	46.90	250995.5	11771687.2	11.8	0.03	124137.1	0.0	469858.9	0.0	0.0	0.0
Totals	1920206.6				0.71		1288561.5					0.0

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	TW4-01						TW4-02					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2010	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
Q1 2011	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
Q3 2011	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
Q1 2012	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
Q3 2012	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
Q1 2013	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
Q3 2013	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
Q1 2014	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
Q3 2014	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
Q1 2015	24569.2	1130.0	92994.4	105083696.9	105.1	0.23	24156.7	1840.0	91433.1	168236921.5	168.2	0.37
Q2 2015	23989.9	1260.0	90801.8	114410232.1	114.4	0.25	22029.9	1650.0	83383.2	137582233.0	137.6	0.30
Q3 2015	23652.0	1060.0	89522.8	94894189.2	94.9	0.21	21586.9	1310.0	81706.4	107035405.6	107.0	0.24
Totals	72211.1				0.69		67773.5				0.9	

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

Quarter	TW4-11						TW4-21					
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2010	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
Q1 2011	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
Q3 2011	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
Q1 2012	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
Q3 2012	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
Q1 2013	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
Q3 2013	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
Q1 2014	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
Q3 2014	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
Q1 2015	9898.7	2450.0	37466.6	91793119.8	91.8	0.20	NA	NA	NA	NA	NA	NA
Q2 2015	5243.3	2710.0	19845.9	53782363.3	53.8	0.12	30743.7	366.0	116364.9	42589555.0	42.6	0.09
Q3 2015	3584.4	1120.0	13567.0	15194988.5	15.2	0.03	125285.4	281.0	474205.2	133251672.2	133.3	0.29
Totals	18726.4					0.35	156029.1					0.39

Table G-1
 Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

TW4-37								
Quarter	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total (pounds)	Total Volume Pumped (gallons)
Q1 2007	NA	NA	NA	NA	NA	NA	286.9	9648896.0
Q2 2007	NA	NA	NA	NA	NA	NA	4.0	904550.0
Q3 2007	NA	NA	NA	NA	NA	NA	9.0	559220.0
Q4 2007	NA	NA	NA	NA	NA	NA	10.6	550560.0
Q1 2008	NA	NA	NA	NA	NA	NA	13.8	503034.0
Q2 2008	NA	NA	NA	NA	NA	NA	14.8	527290.0
Q3 2008	NA	NA	NA	NA	NA	NA	26.8	724960.0
Q4 2008	NA	NA	NA	NA	NA	NA	22.7	786870.0
Q1 2009	NA	NA	NA	NA	NA	NA	10.0	664830.0
Q2 2009	NA	NA	NA	NA	NA	NA	13.5	1007400.0
Q3 2009	NA	NA	NA	NA	NA	NA	18.5	399710.0
Q4 2009	NA	NA	NA	NA	NA	NA	49.4	1047335.0
Q1 2010	NA	NA	NA	NA	NA	NA	4.5	492485.0
Q2 2010	NA	NA	NA	NA	NA	NA	16.5	721374.1
Q3 2010	NA	NA	NA	NA	NA	NA	10.6	376623.4
Q4 2010	NA	NA	NA	NA	NA	NA	17.9	1041817.3
Q1 2011	NA	NA	NA	NA	NA	NA	24.9	696533.0
Q2 2011	NA	NA	NA	NA	NA	NA	13.1	449131.1
Q3 2011	NA	NA	NA	NA	NA	NA	8.1	462334.5
Q4 2011	NA	NA	NA	NA	NA	NA	10.8	468706.3
Q1 2012	NA	NA	NA	NA	NA	NA	10.6	448486.3
Q2 2012	NA	NA	NA	NA	NA	NA	10.4	400415.2
Q3 2012	NA	NA	NA	NA	NA	NA	6.6	390229.0
Q4 2012	NA	NA	NA	NA	NA	NA	7.1	358000.0
Q1 2013	NA	NA	NA	NA	NA	NA	13.7	634286.1
Q2 2013	NA	NA	NA	NA	NA	NA	13.5	768953.4
Q3 2013	NA	NA	NA	NA	NA	NA	31.1	950505.6
Q4 2013	NA	NA	NA	NA	NA	NA	10.3	990119.8
Q1 2014	NA	NA	NA	NA	NA	NA	8.6	859297.5
Q2 2014	NA	NA	NA	NA	NA	NA	9.9	838057.9
Q3 2014	NA	NA	NA	NA	NA	NA	10.2	852987.2
Q4 2014	NA	NA	NA	NA	NA	NA	14.6	673905.9
Q1 2015	NA	NA	NA	NA	NA	NA	9.9	458271.4
Q2 2015	29206.0	30200.0	110544.7	3338450242.0	3338.5	7.4	15.3	539592.9
Q3 2015	118063.9	19100.0	446871.9	8535252554.7	8535.3	18.8	33.4	816299.8
Totals	147269.9					26.2	791.5	32013067.7

**Table G-2
Chloroform Mass Removal Per Well Per Quarter**

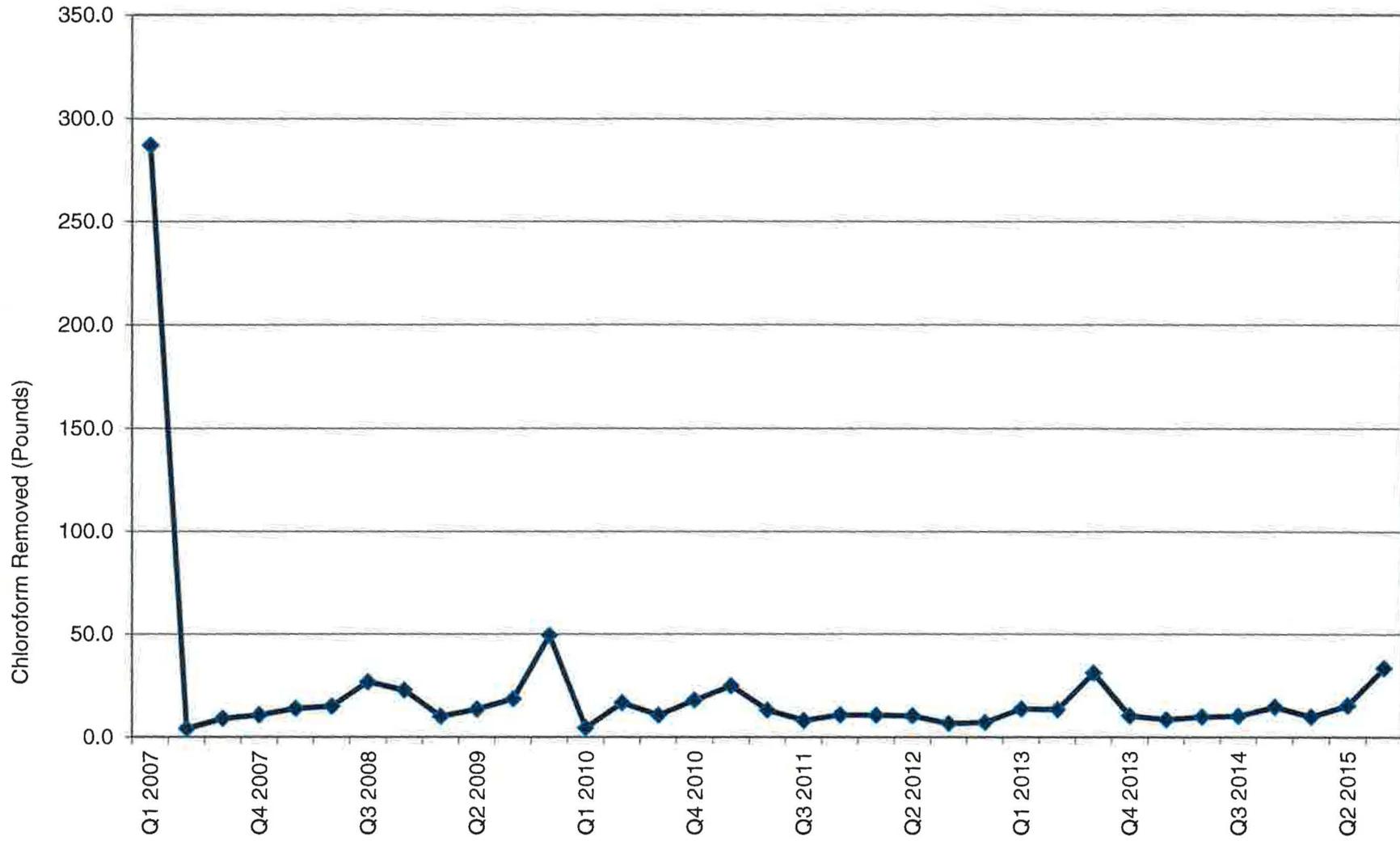
Quarter*	MW-4 (lbs.)	TW4-15 (MW-26) (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	TW4-01 (lbs.)	TW4-02 (lbs.)	TW4-11 (lbs.)	TW4-21 (lbs.)	TW4-37 (lbs.)	Quarter Totals (lbs.)
Q1 2007	36.8	12.9	150.2	87.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	286.9
Q2 2007	1.4	0.1	0.0	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0
Q4 2007	1.7	1.0	3.1	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.8
Q2 2008	1.3	0.5	3.2	9.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.8
Q4 2008	1.3	0.3	20.7	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0
Q2 2009	6.8	0.2	3.7	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.5
Q4 2009	4.8	0.6	17.8	26.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5
Q2 2010	1.5	1.0	6.8	5.9	1.4	NA	16.5							
Q3 2010	1.3	1.2	2.0	4.9	1.3	NA	10.6							
Q4 2010	1.1	0.5	7.7	7.4	1.2	NA	17.9							
Q1 2011	1.1	0.2	12.9	9.6	1.1	NA	24.9							
Q2 2011	1.2	0.8	5.3	4.6	1.1	NA	13.1							
Q3 2011	1.2	0.4	1.1	4.1	1.2	NA	8.1							
Q4 2011	1.2	0.8	2.7	4.8	1.4	NA	10.8							
Q1 2012	1.1	0.6	0.8	7.0	1.0	NA	10.6							
Q2 2012	1.1	0.7	0.7	6.9	1.1	NA	10.4							
Q3 2012	1.1	0.7	1.4	2.4	1.1	NA	6.6							
Q4 2012	0.9	0.3	2.0	3.2	0.8	NA	7.2							
Q1 2013	0.9	0.4	7.4	2.8	0.7	1.5	0.0	0.0	NA	NA	NA	NA	NA	13.7
Q2 2013	0.9	0.9	3.9	4.4	0.7	2.7	0.0	0.0	NA	NA	NA	NA	NA	13.5
Q3 2013	0.9	0.6	22.3	4.4	0.7	2.1	0.1	0.0	NA	NA	NA	NA	NA	31.1
Q4 2013	0.8	0.3	3.2	2.5	0.7	2.8	0.1	0.0	NA	NA	NA	NA	NA	10.3
Q1 2014	0.8	0.3	1.5	2.8	0.6	2.5	0.2	0.0	NA	NA	NA	NA	NA	8.6
Q2 2014	0.8	0.4	2.0	3.4	0.6	2.5	0.1	0.0	NA	NA	NA	NA	NA	9.9
Q3 2014	0.9	0.4	3.6	1.8	0.8	2.5	0.1	0.0	NA	NA	NA	NA	NA	10.2
Q4 2014	0.8	0.4	7.1	3.2	0.6	2.5	0.04	0.0	NA	NA	NA	NA	NA	14.6
Q1 2015	0.9	0.4	2.4	2.6	0.4	2.3	0.04	0.0	0.23	0.37	0.20	NA	NA	9.9
Q2 2015	0.7	0.5	1.0	2.8	0.7	1.6	0.00	0.0	0.25	0.30	0.12	0.09	7.4	15.3
Q3 2015	1.0	0.4	7.6	2.5	0.7	1.6	0.03	0.0	0.21	0.24	0.03	0.29	18.8	33.4
Well Totals	85.4	30.3	345.5	256.5	20.1	24.5	0.71	0.00	0.69	0.91	0.35	0.39	26.2	791.5

* Q1 2007 represents the cumulative total prior to and including Q1 2007.

Table G-3 Well Pumping Rates and Volumes

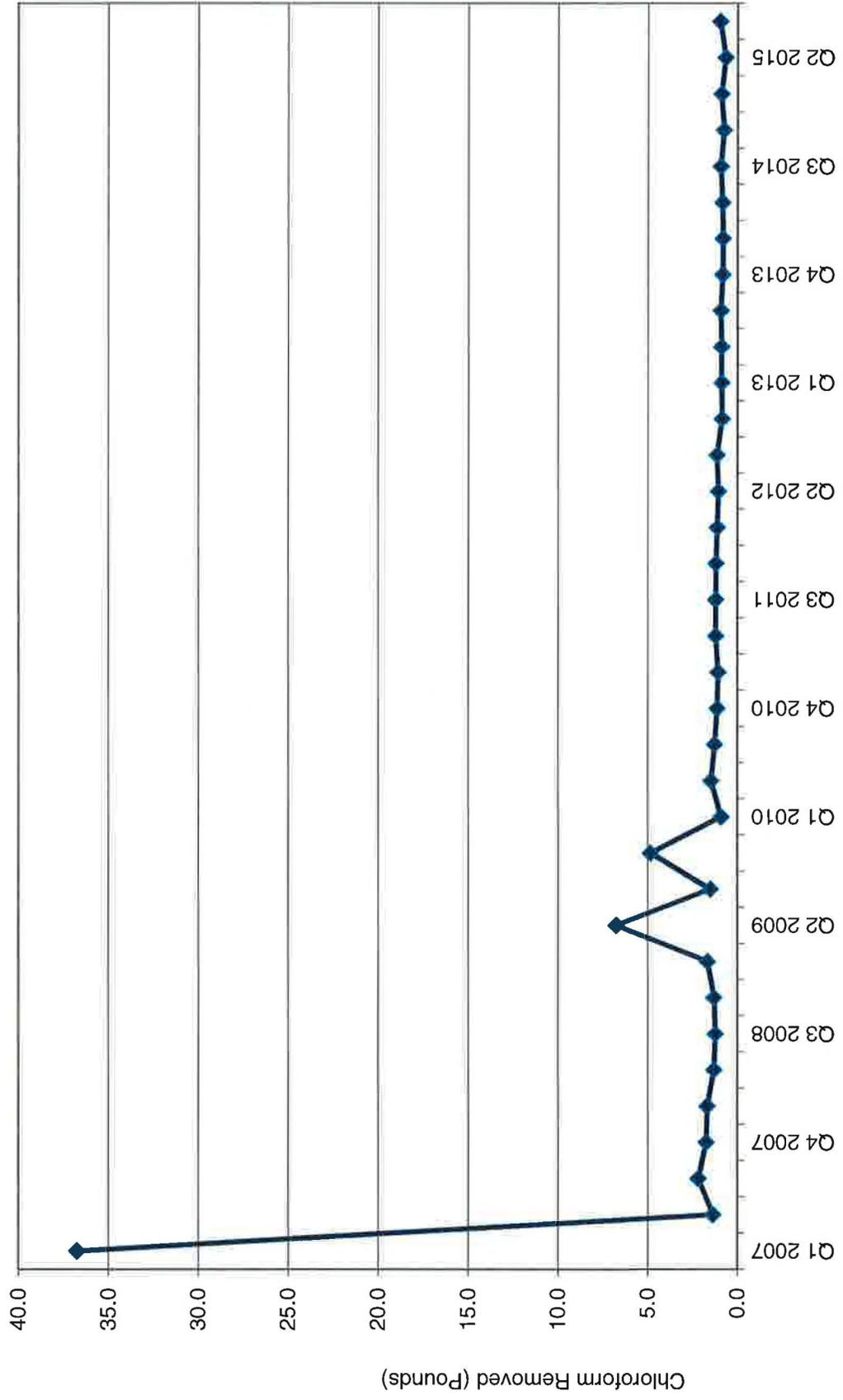
Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	89,520.8	4.6
MW-26	21,042.0	8.7
TW4-4	64,333.0	10.4
TW4-19	116,503.9	18.0
TW4-20	17,657.3	8.5
TW4-22	24,619.9	17.4
TW4-24	66,313.2	17.8
TW4-25	124,137.1	15.4
TWN-2	48,617.4	18.4
TW4-01	23,652.0	16.5
TW4-02	21,586.9	16.5
TW4-11	3,584.4	16.5
TW4-21	125,285.4	16.2
TW4-37	118,063.9	17.2

Mass of Chloroform Removed by Quarter (lbs.)

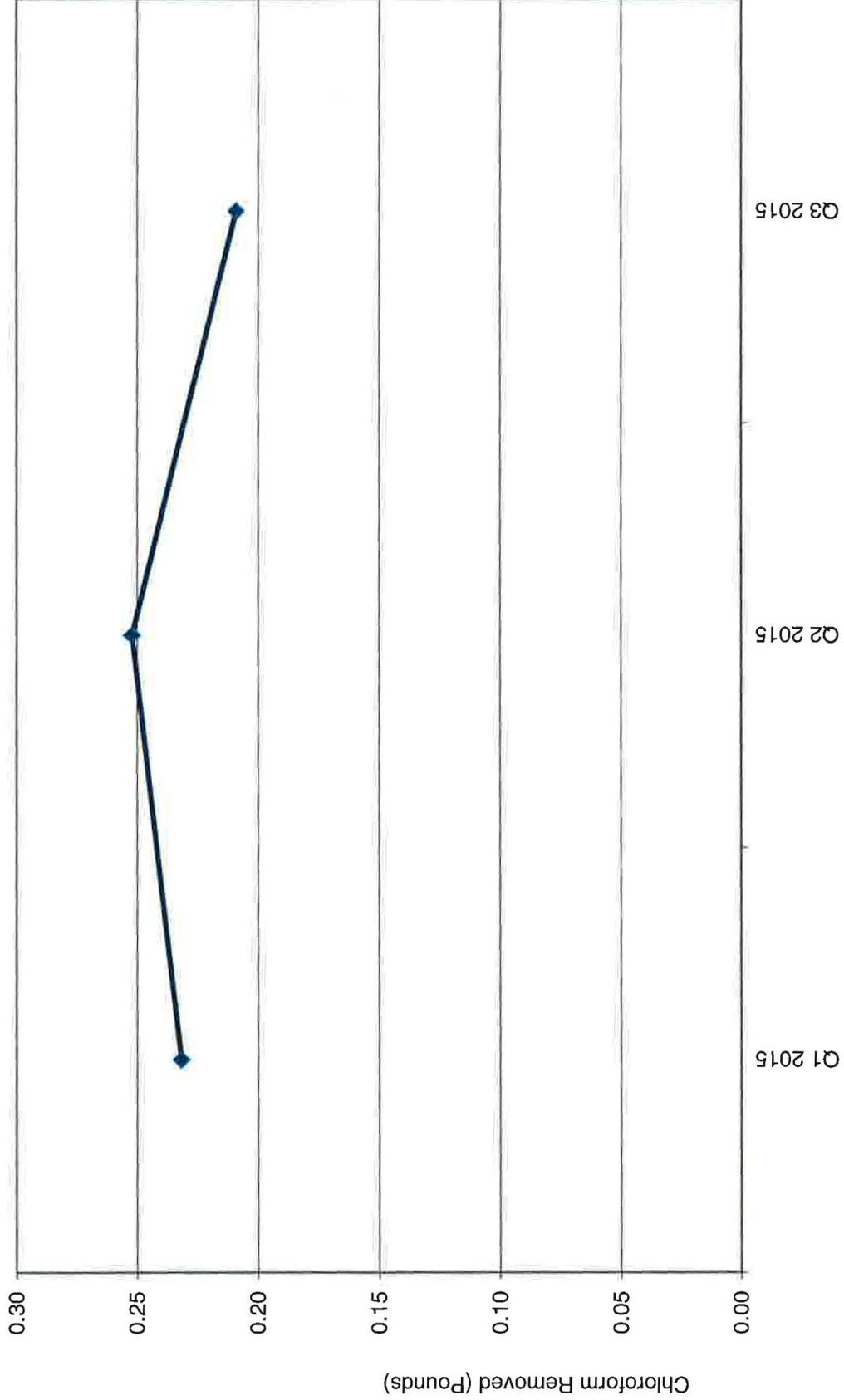


Q1 2007 represents the cumulative total prior to and including Q1 2007.

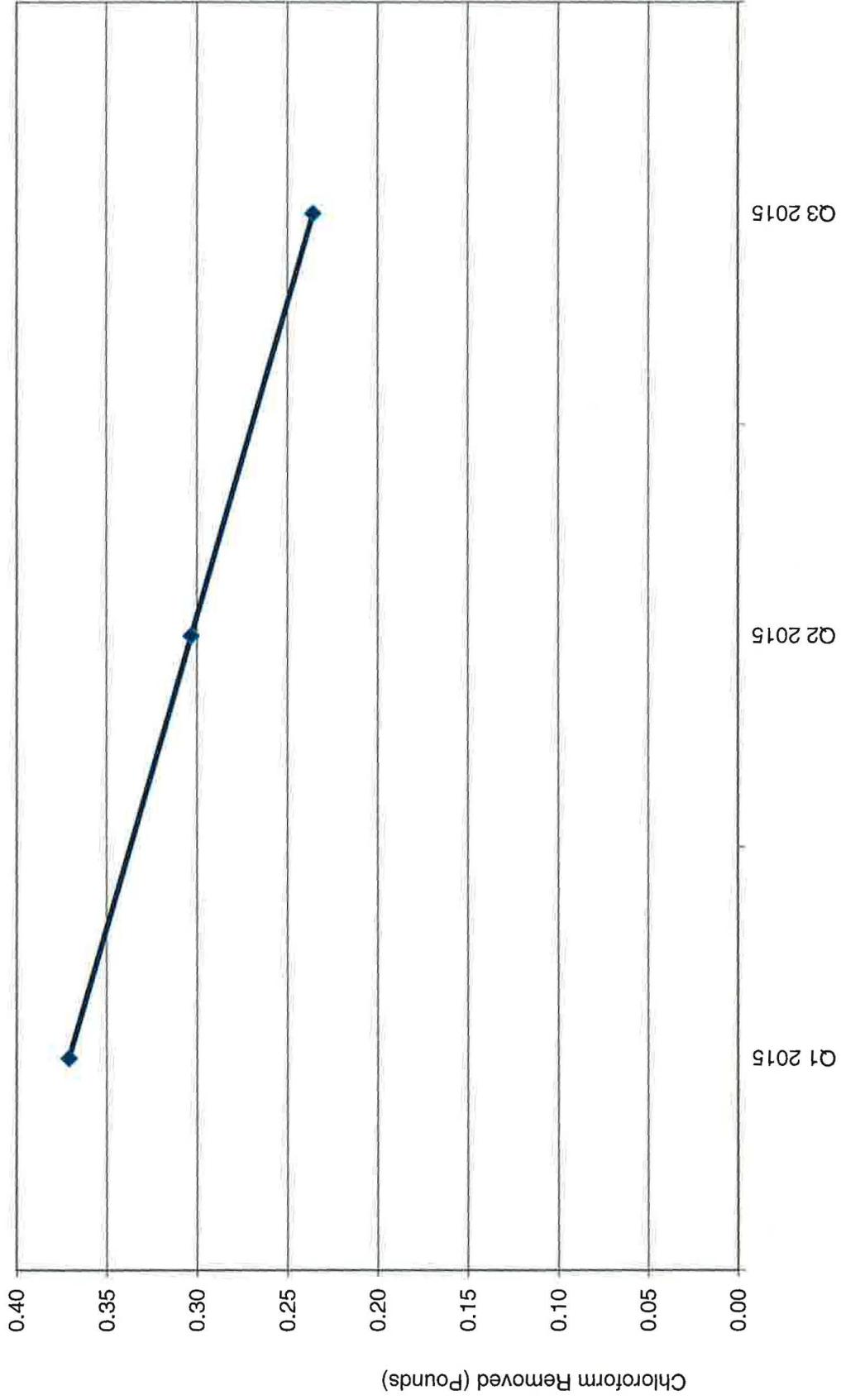
MW-04 Mass of Chloroform Removed by Quarter (lbs.)



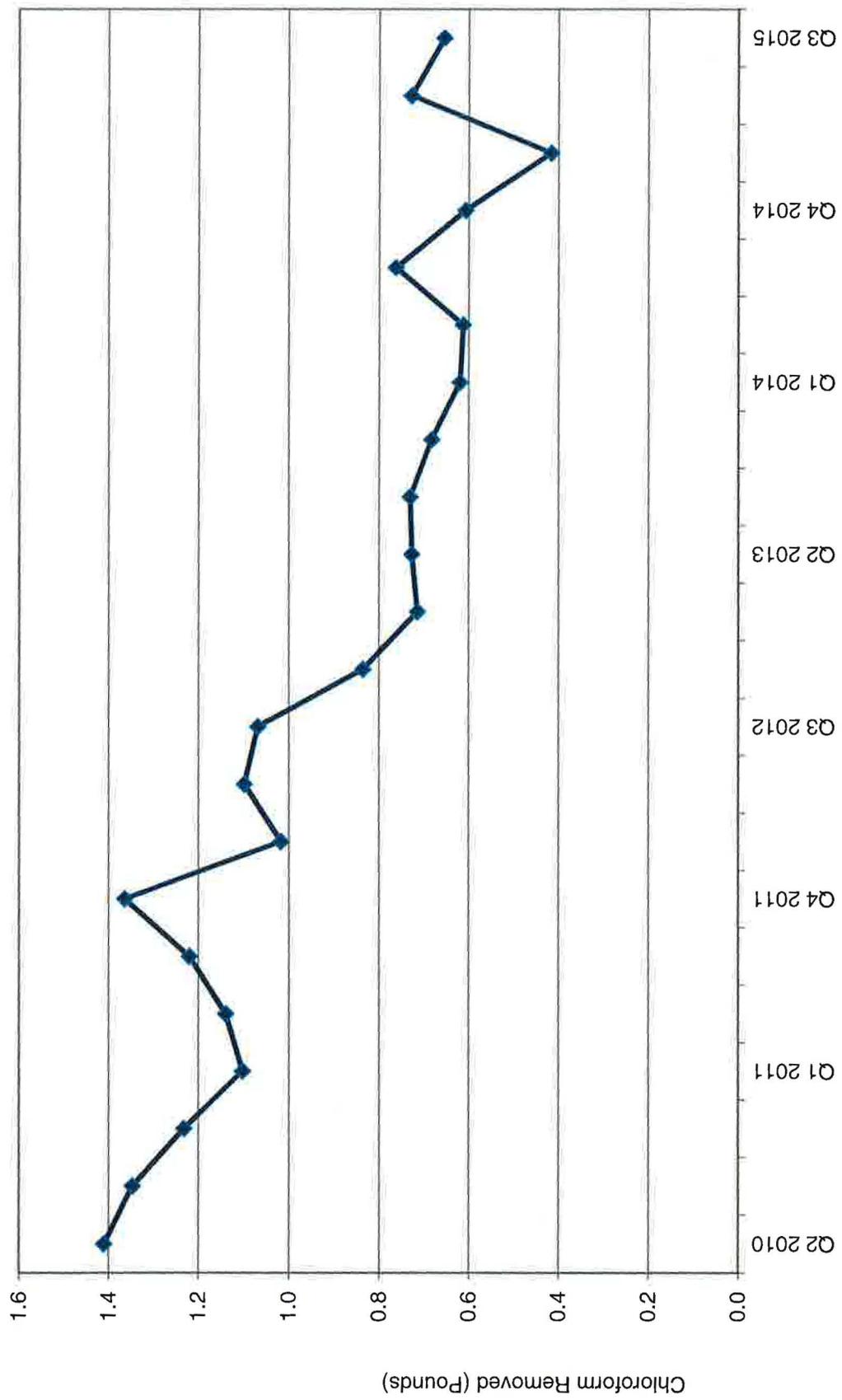
TW4-01 Mass of Chloroform Removed by Quarter (lbs.)



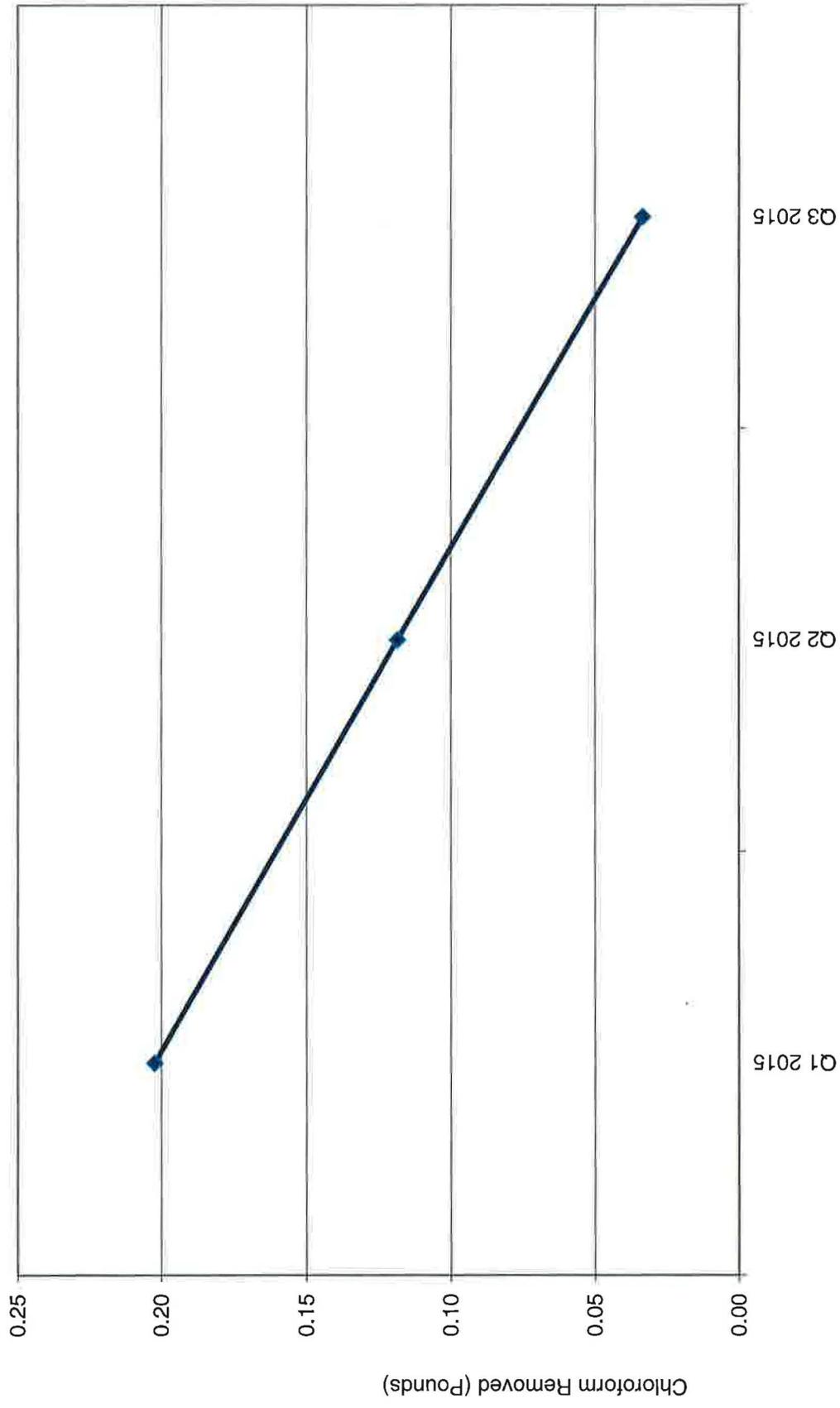
TW4-02 Mass of Chloroform Removed by Quarter (lbs.)



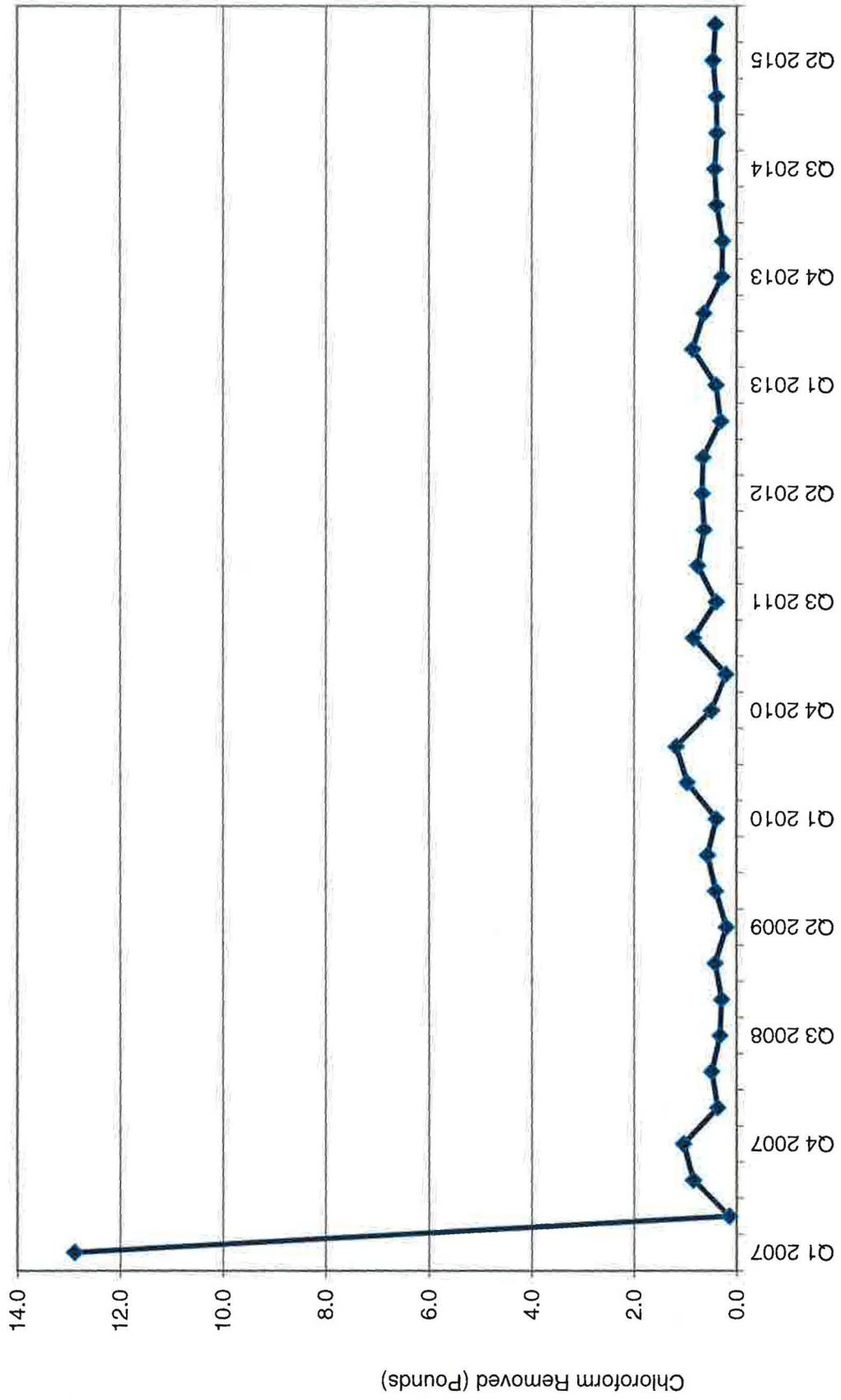
TW4-04 Mass of Chloroform Removed by Quarter (lbs.)



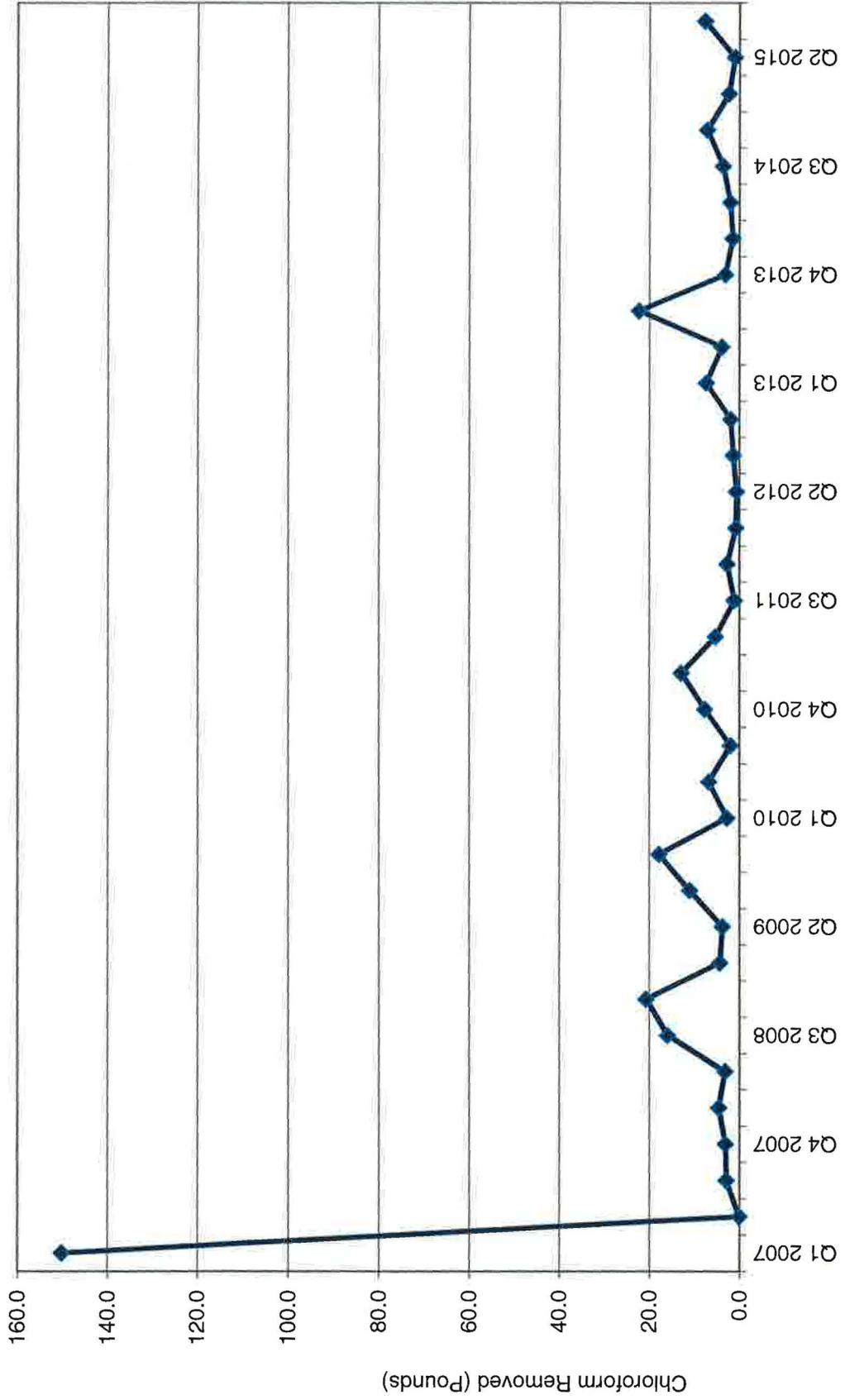
TW4-11 Mass of Chloroform Removed by Quarter (lbs.)



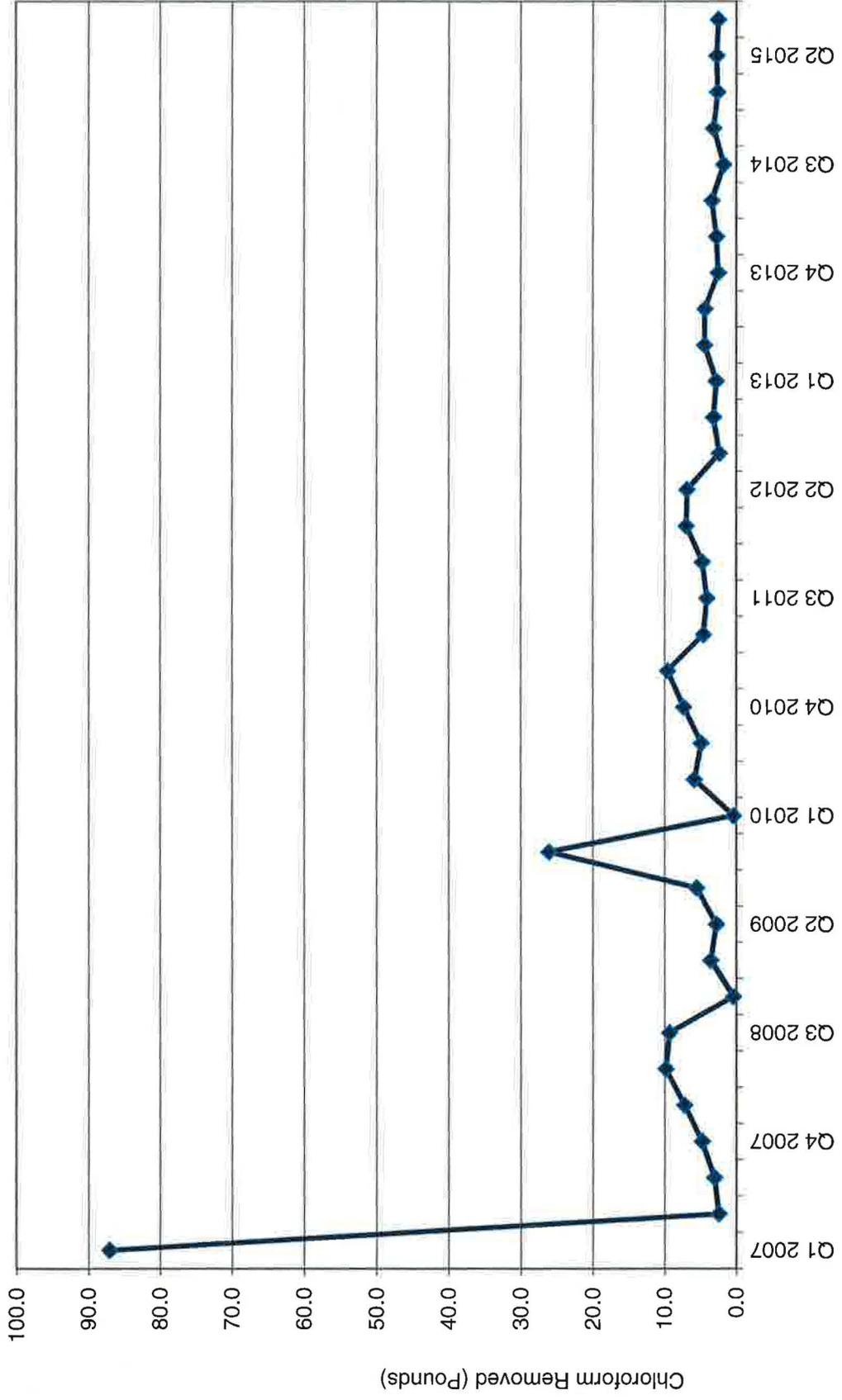
MW-26 Mass of Chloroform Removed by Quarter (lbs.)



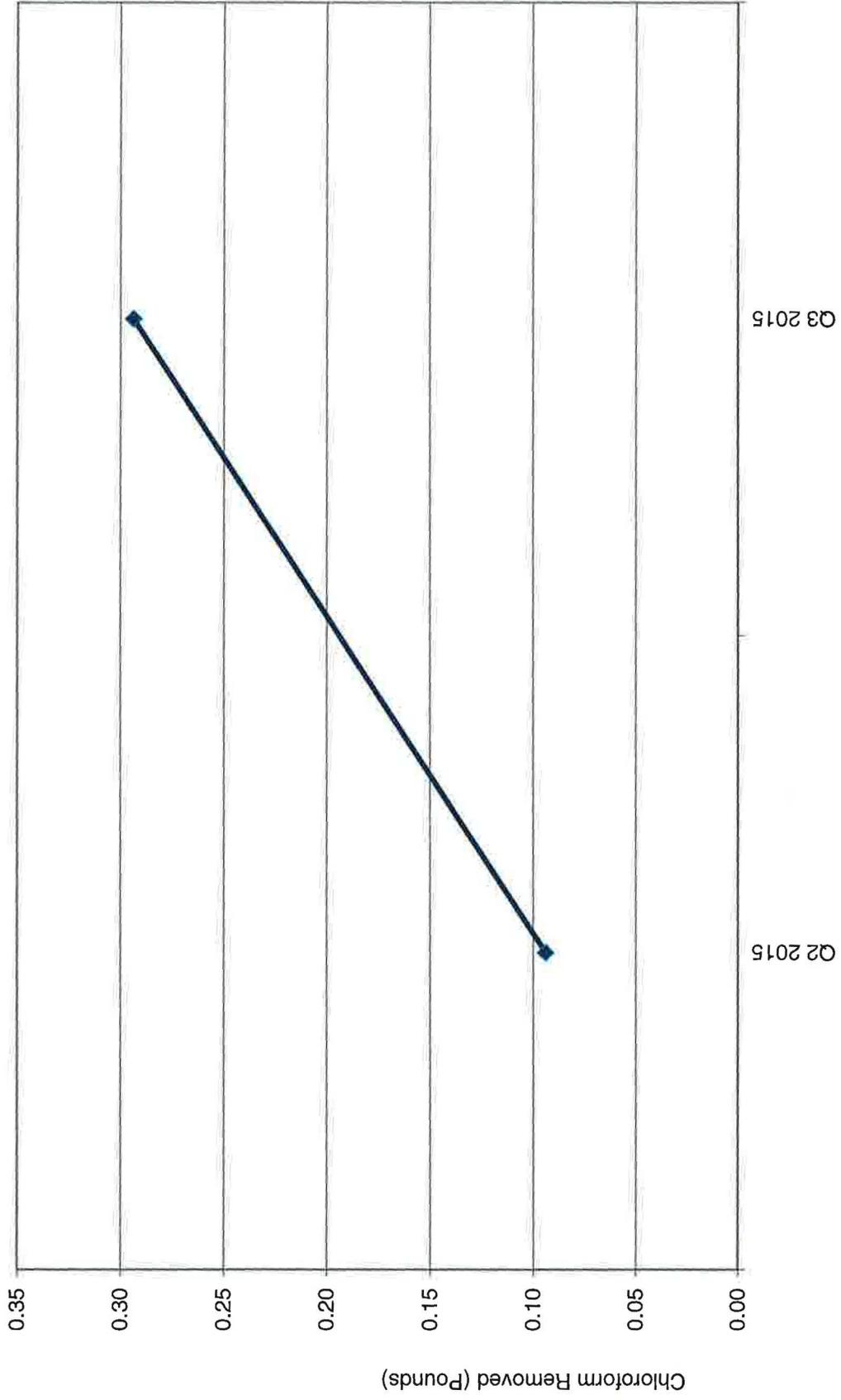
TW4-19 Mass of Chloroform Removed by Quarter (lbs.)



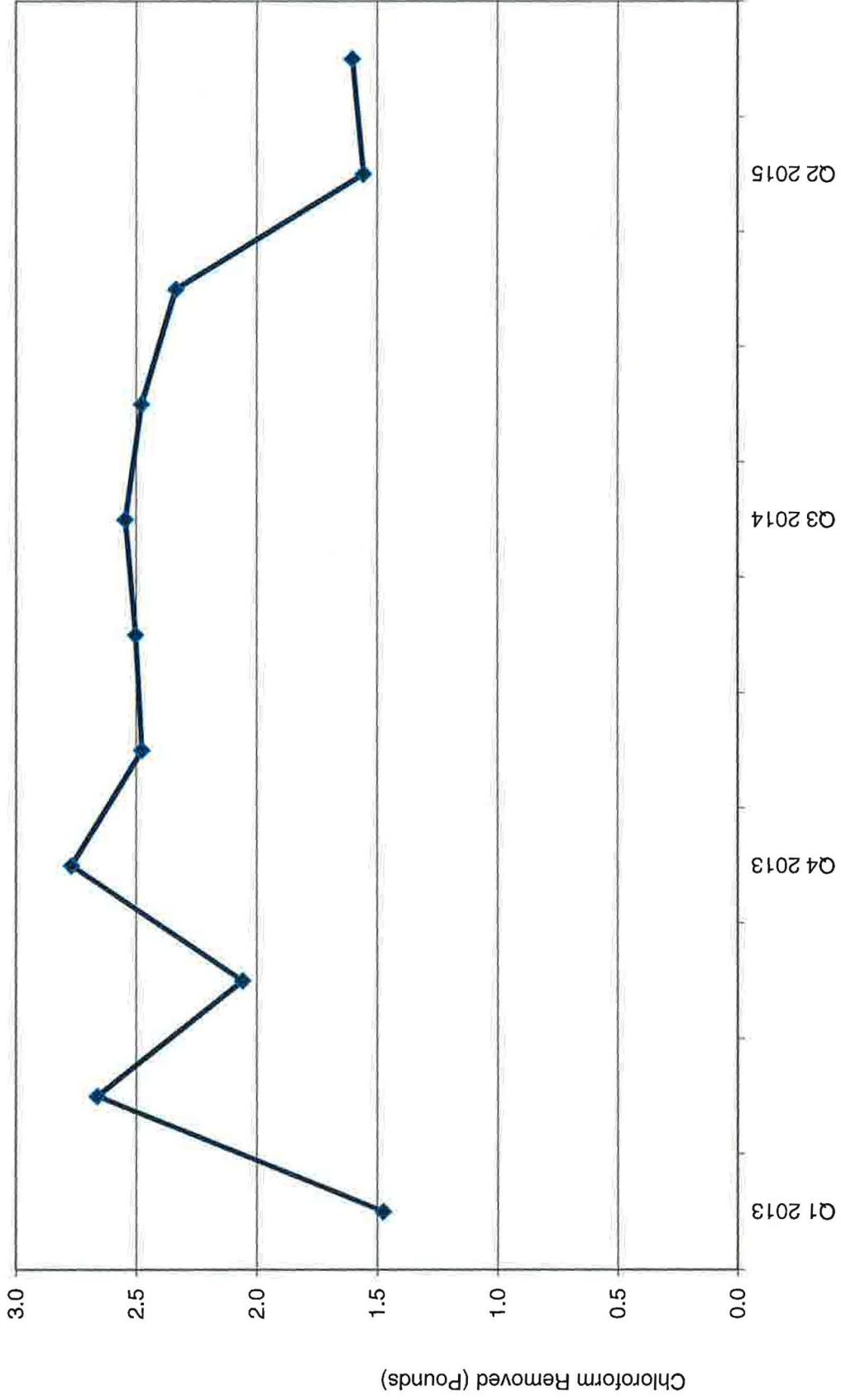
TW4-20 Mass of Chloroform Removed by Quarter (lbs.)



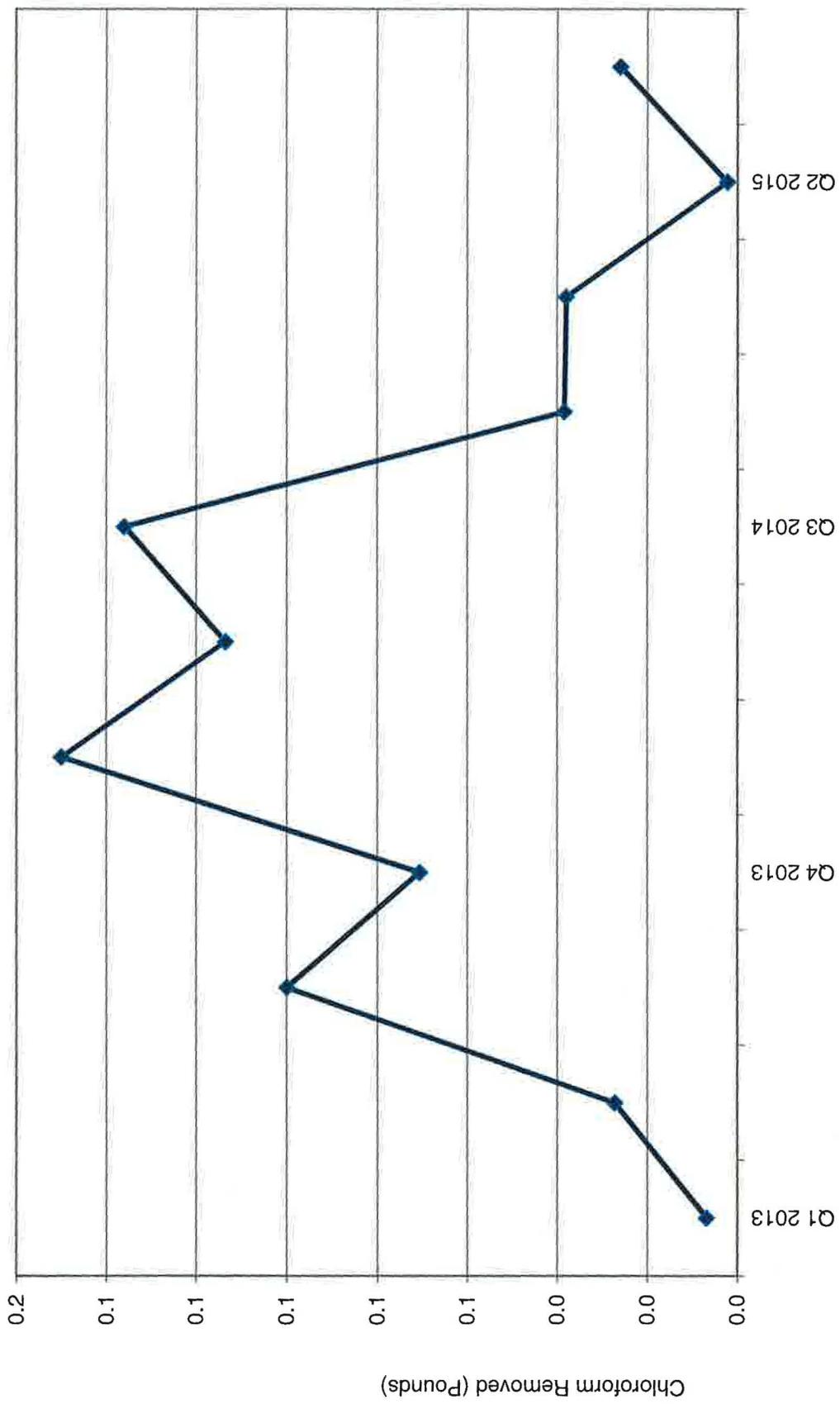
TW4-21 Mass of Chloroform Removed by Quarter (lbs.)



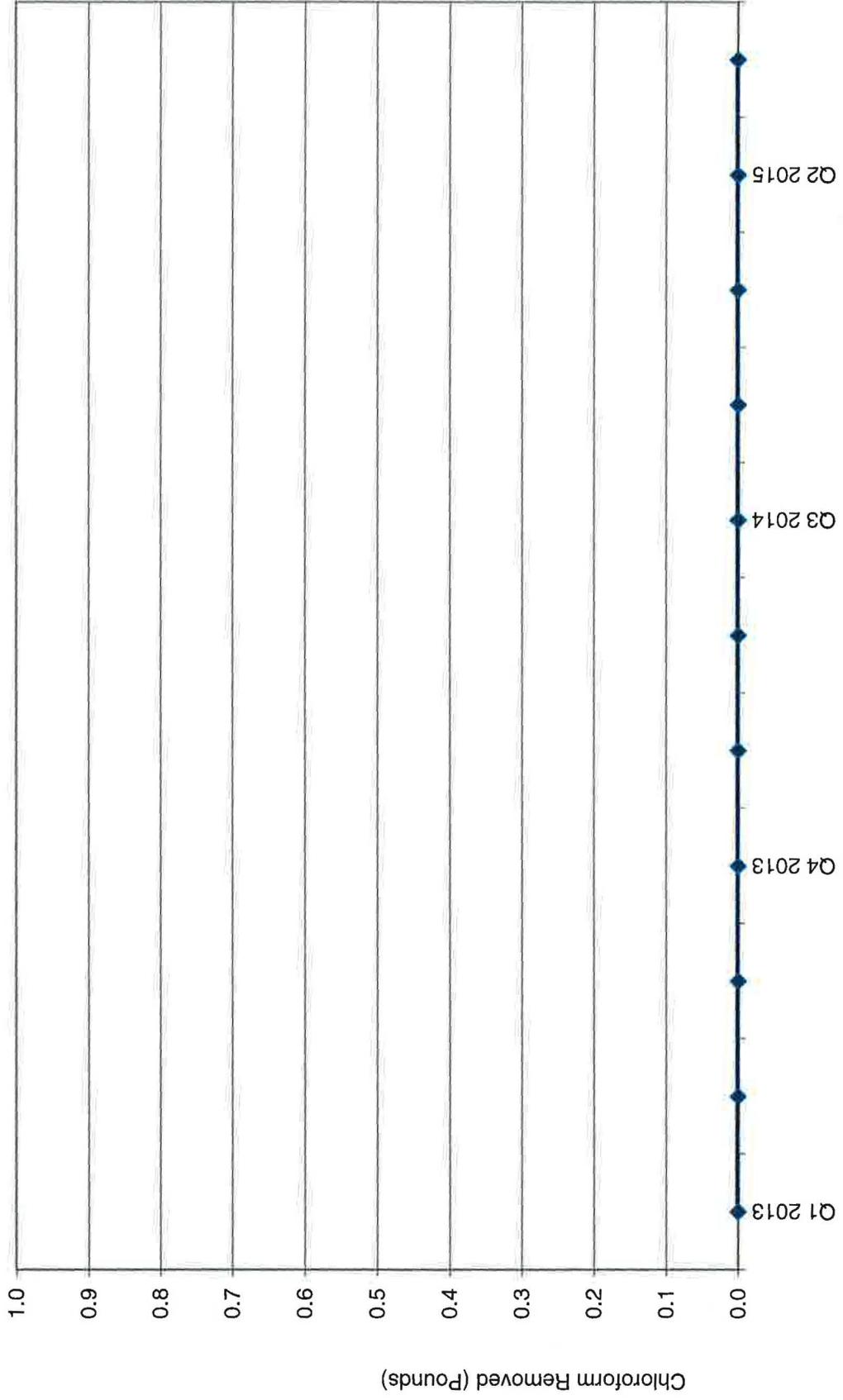
TW4-22 Mass of Chloroform Removed by Quarter (lbs.)



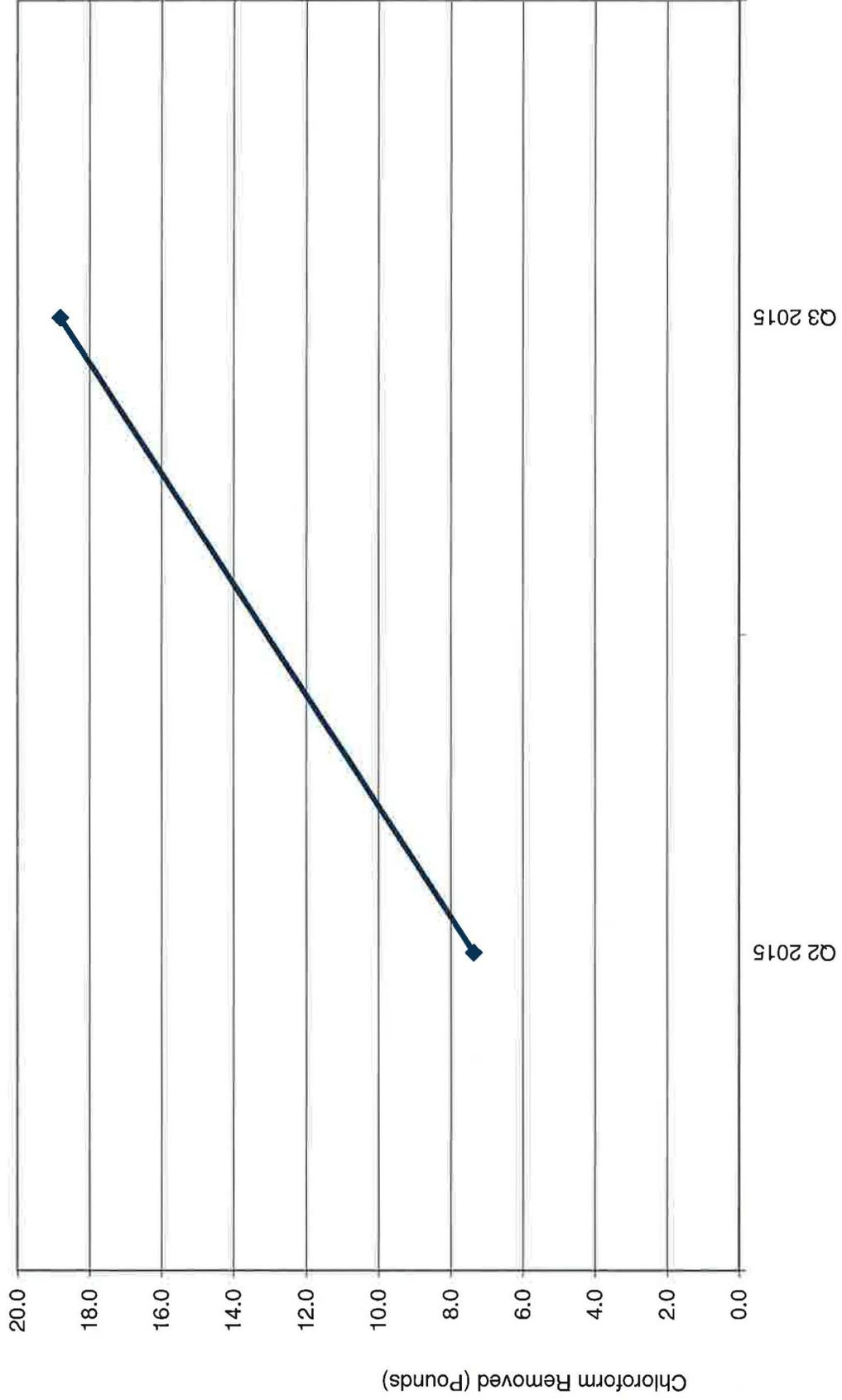
TW4-24 Mass of Chloroform Removed by Quarter (lbs.)



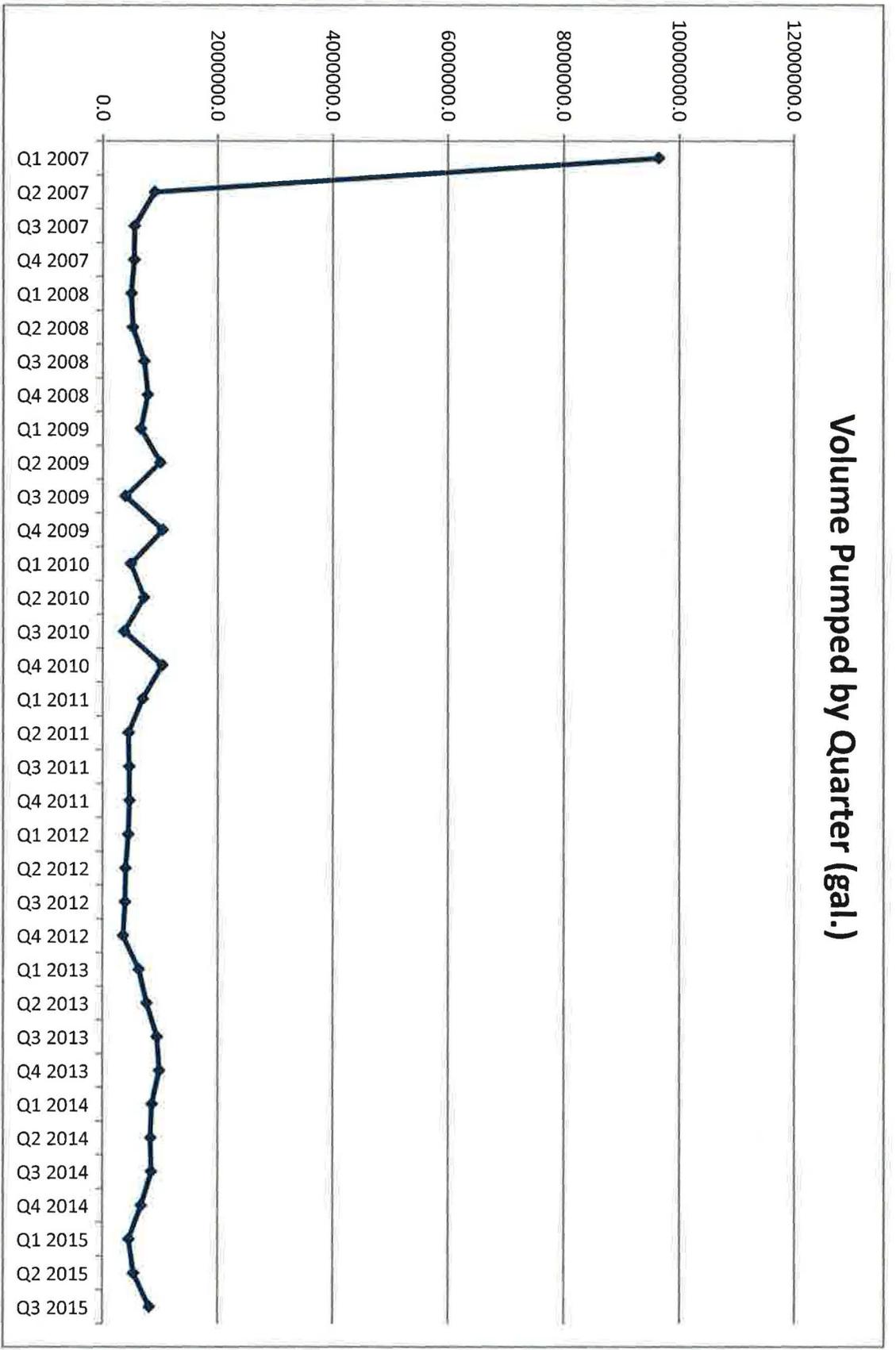
TW4-25 Mass of Chloroform Removed by Quarter (lbs.)



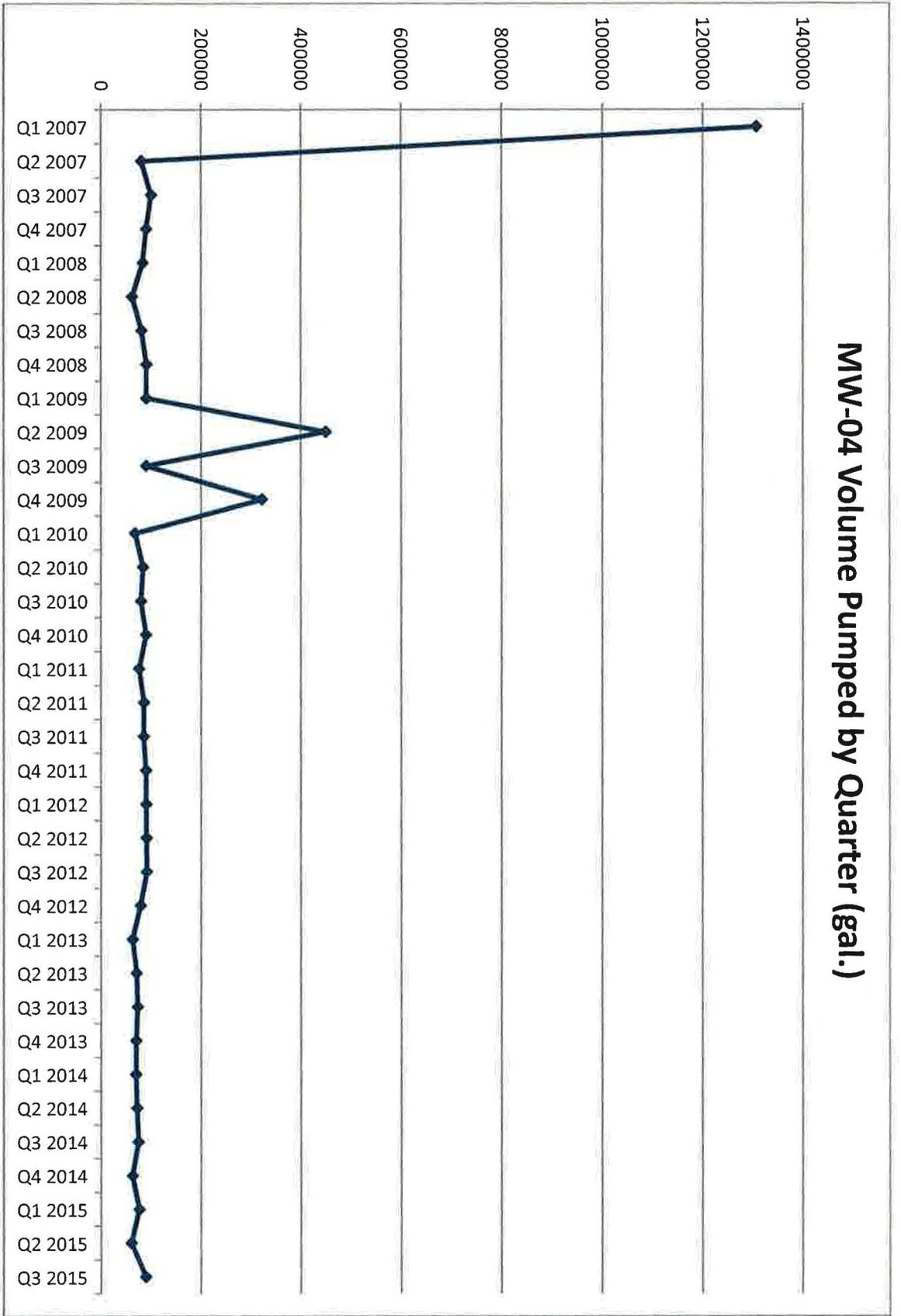
TW4-37 Mass of Chloroform Removed by Quarter (lbs.)



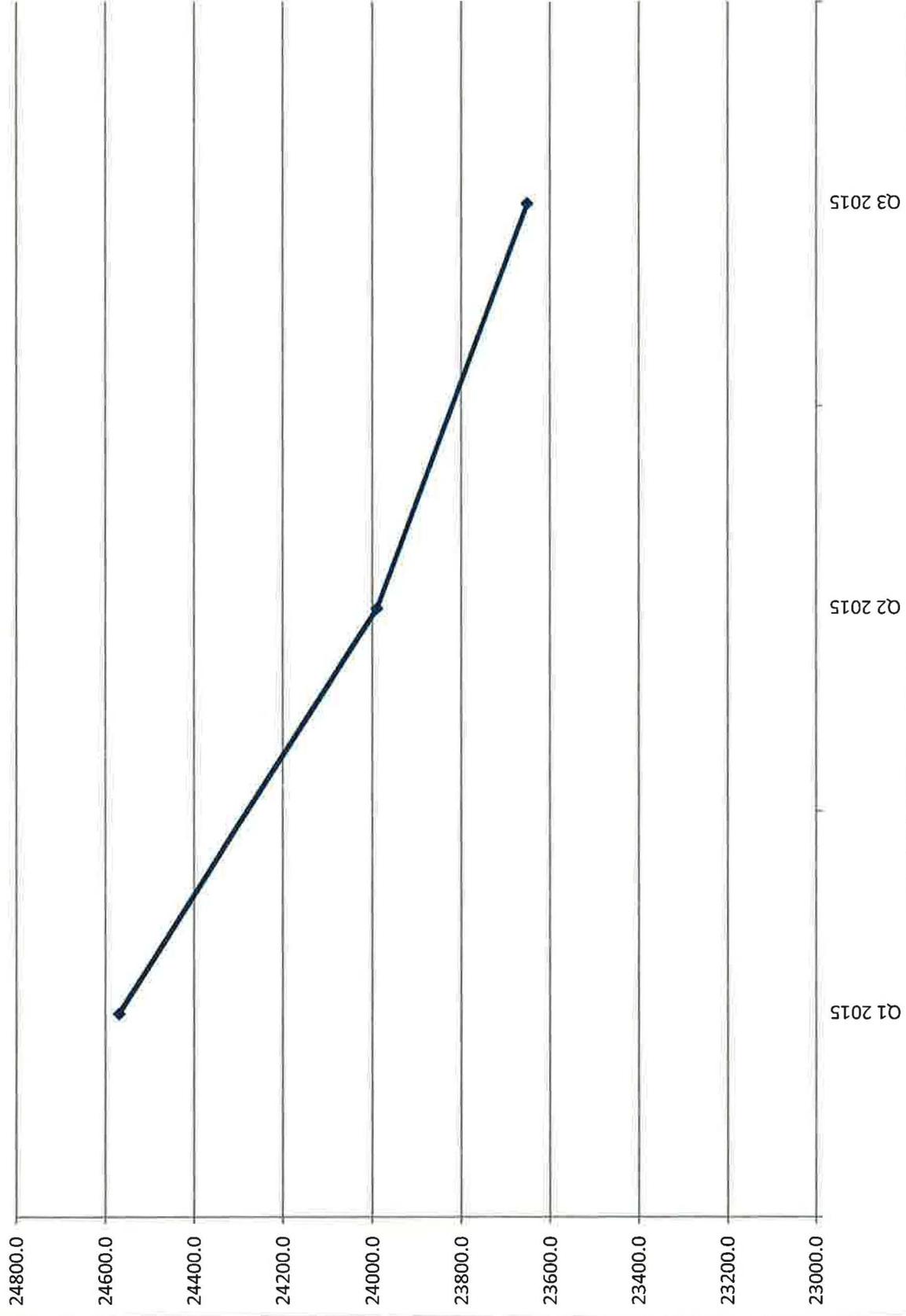
Volume Pumped by Quarter (gal.)



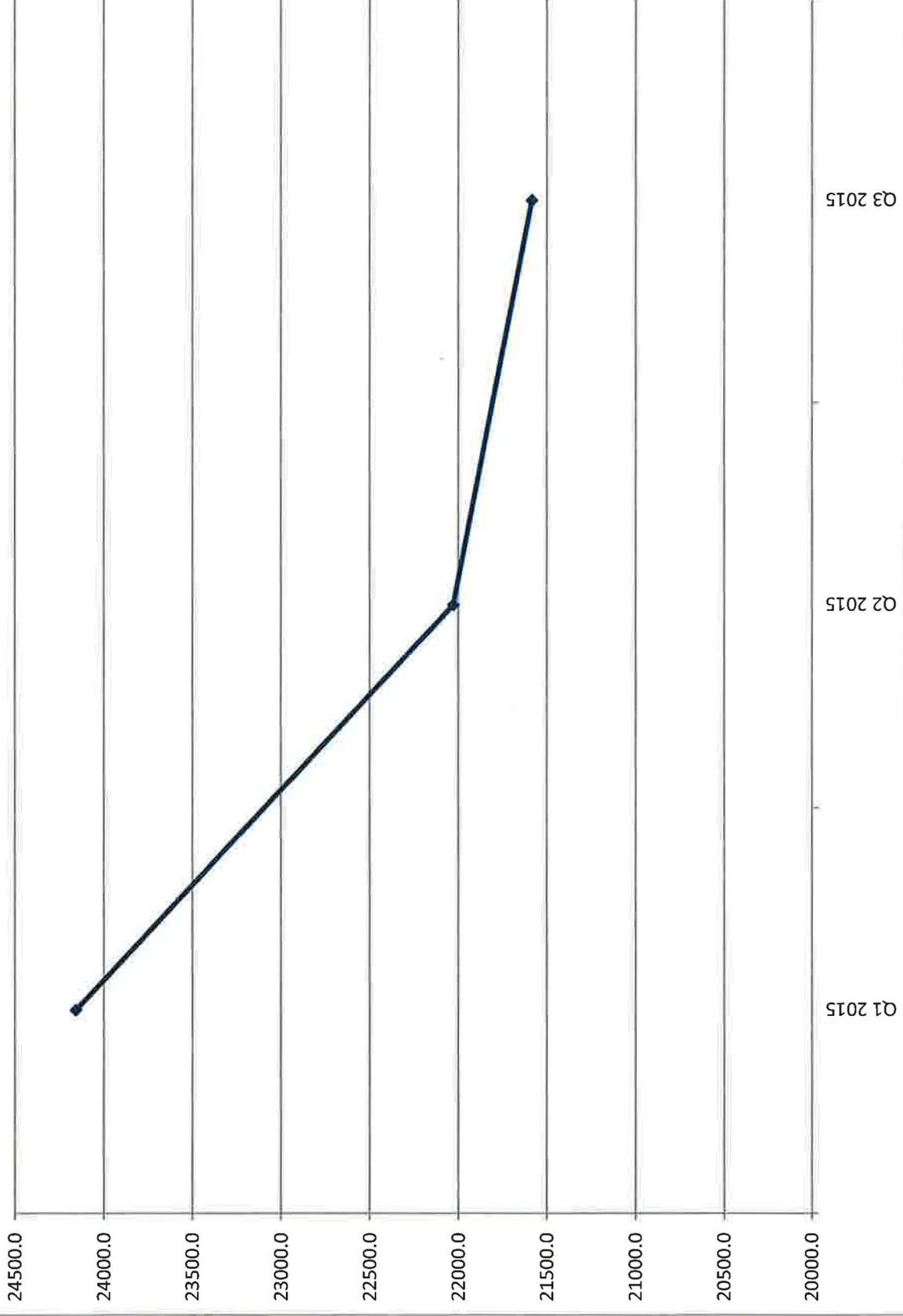
MW-04 Volume Pumped by Quarter (gal.)



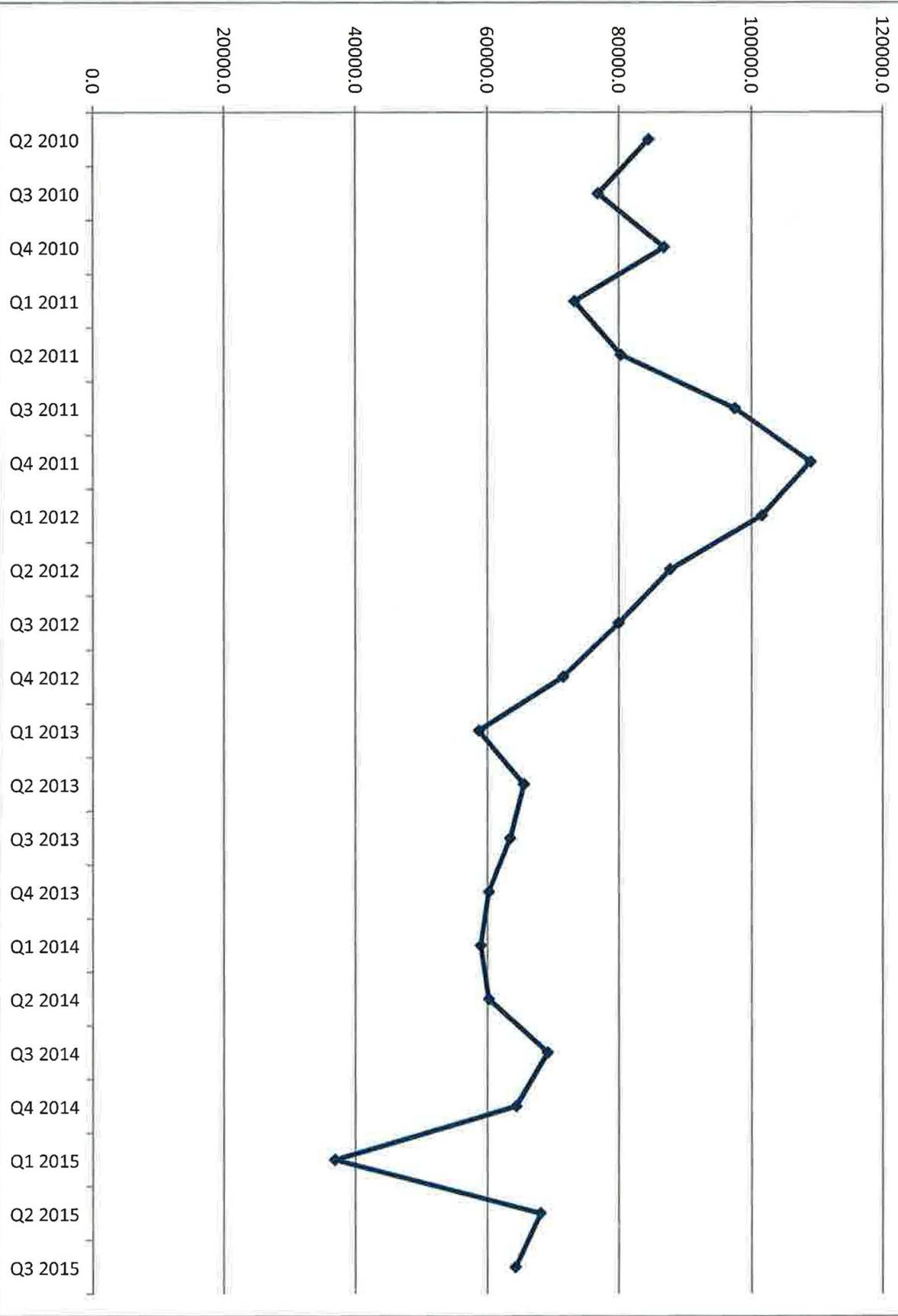
TW4-01 Volume Pumped by Quarter (gal.)



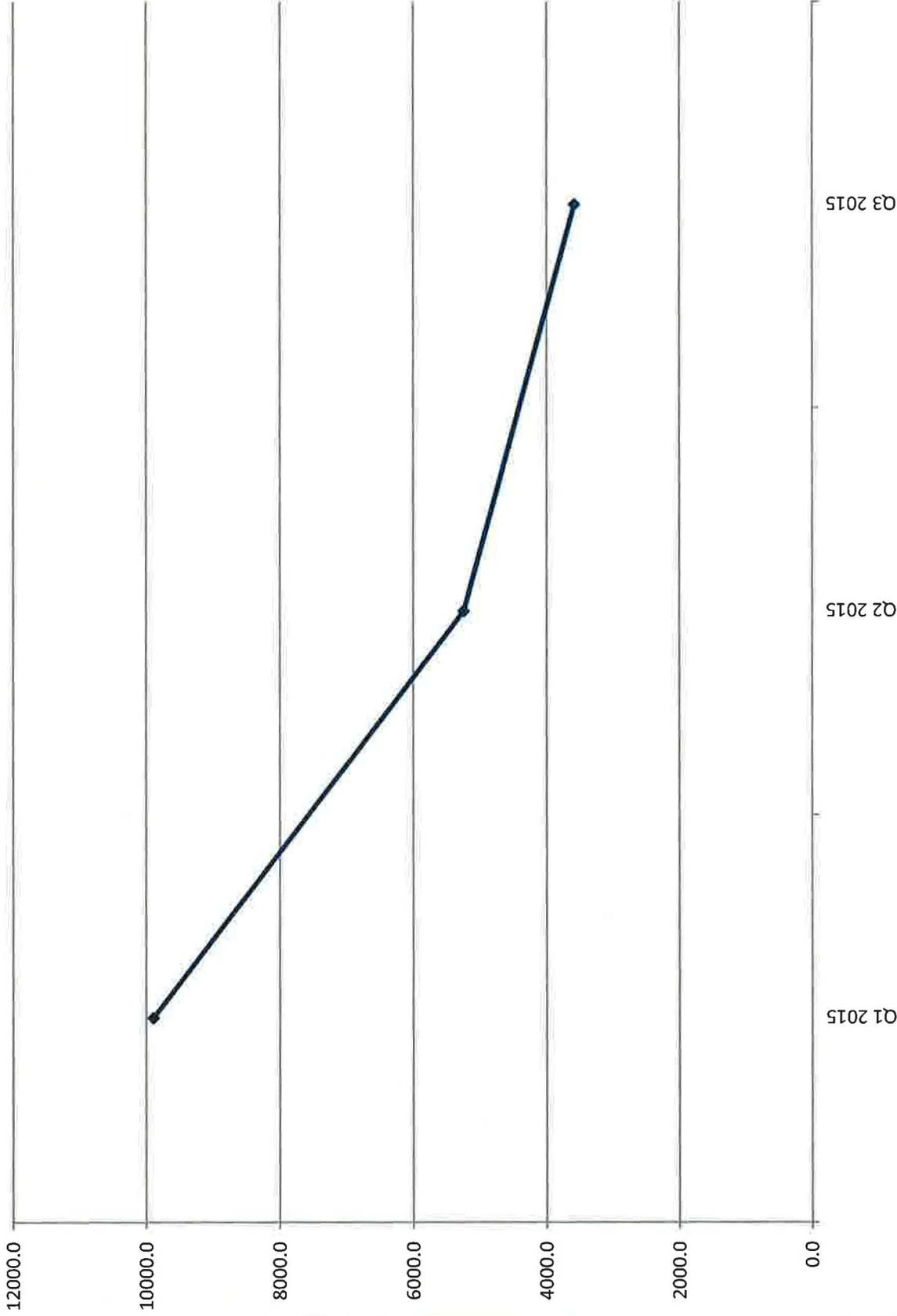
TW4-02 Volume Pumped by Quarter (gal.)



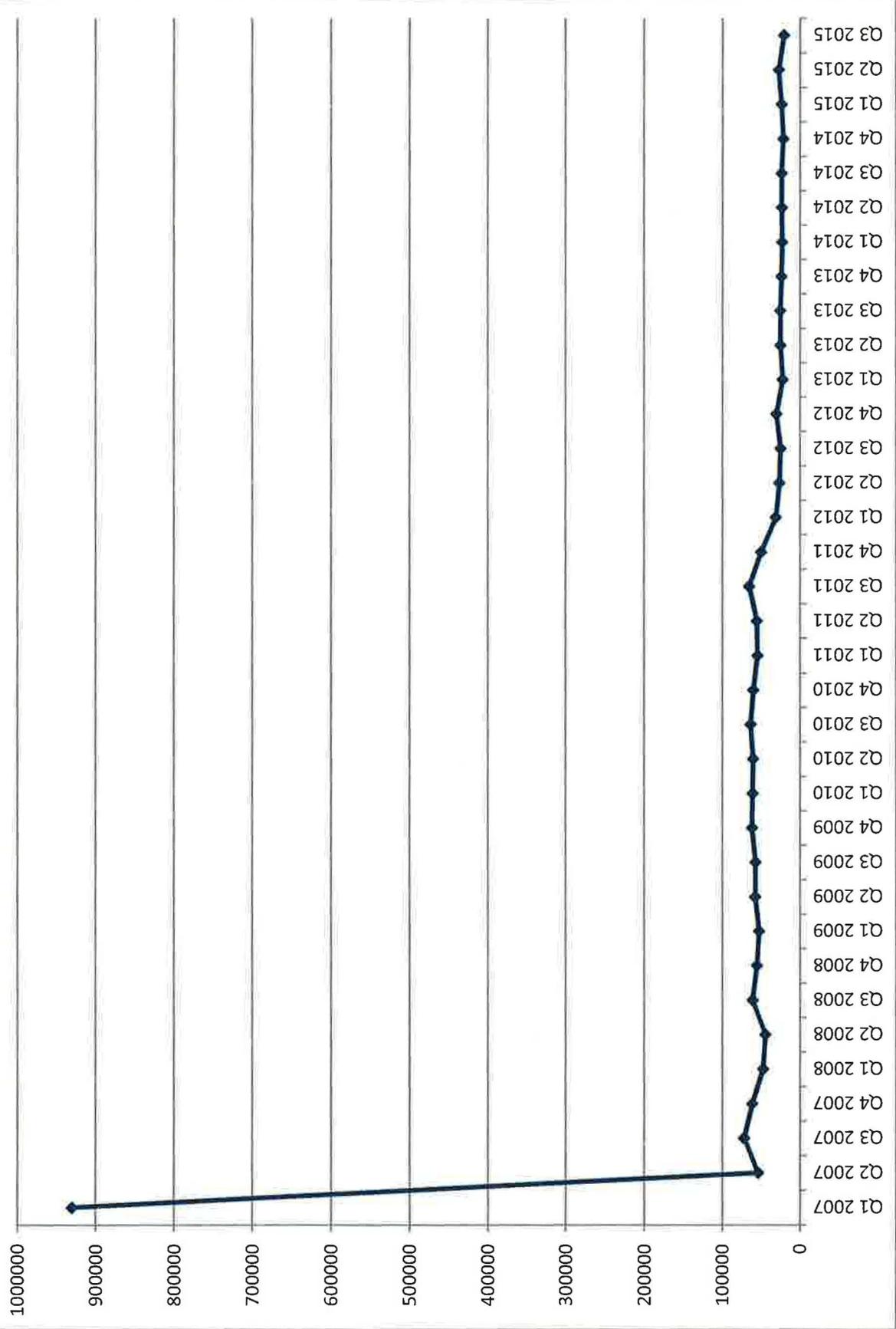
TW4-04 Volume Pumped by Quarter (gal.)



TW4-11 Volume Pumped by Quarter (gal.)

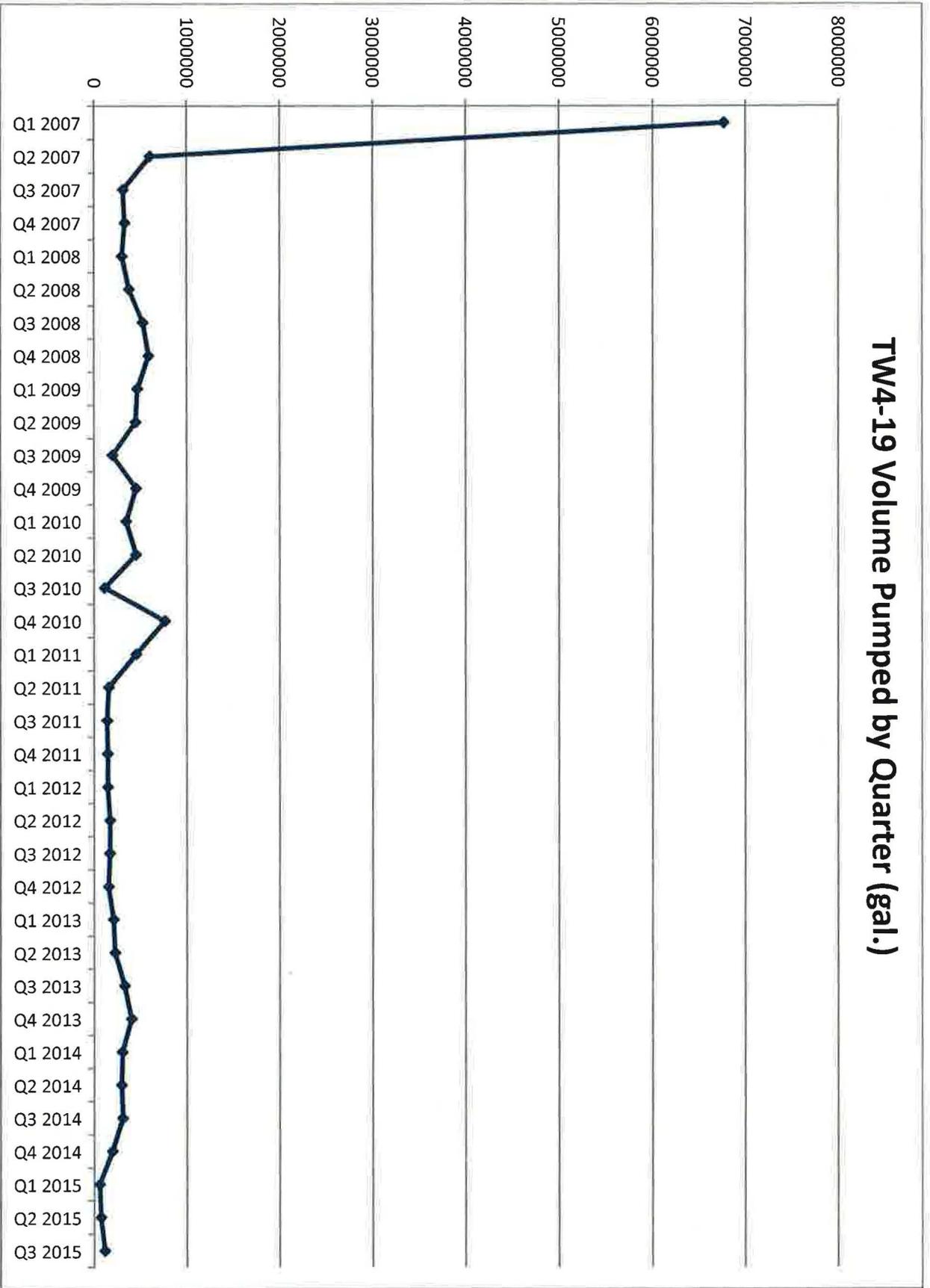


MW-26 Volume Pumped by Quarter (gal.)

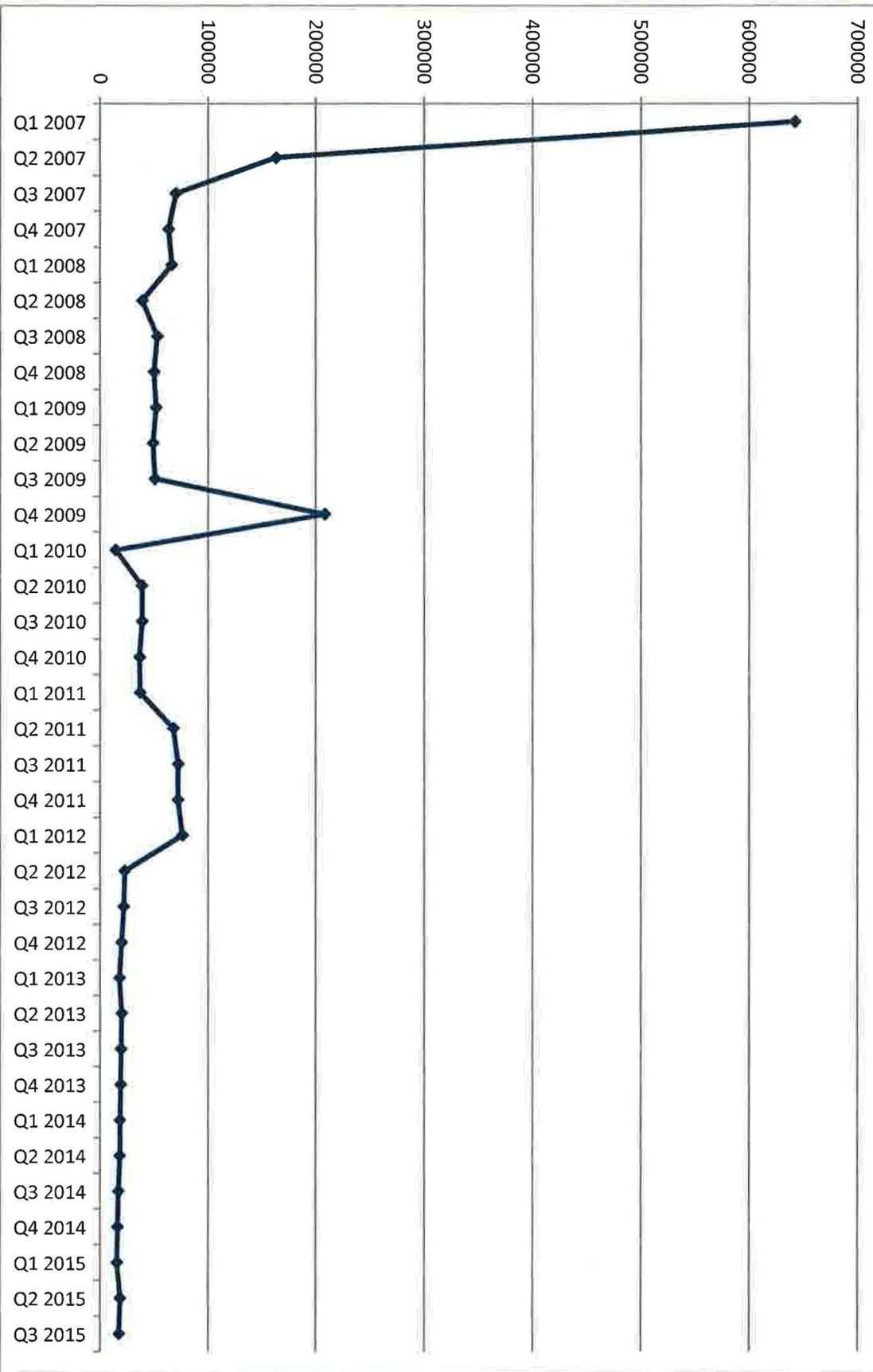


Q1 2007 represents the cumulative total prior to and including Q1 2007.

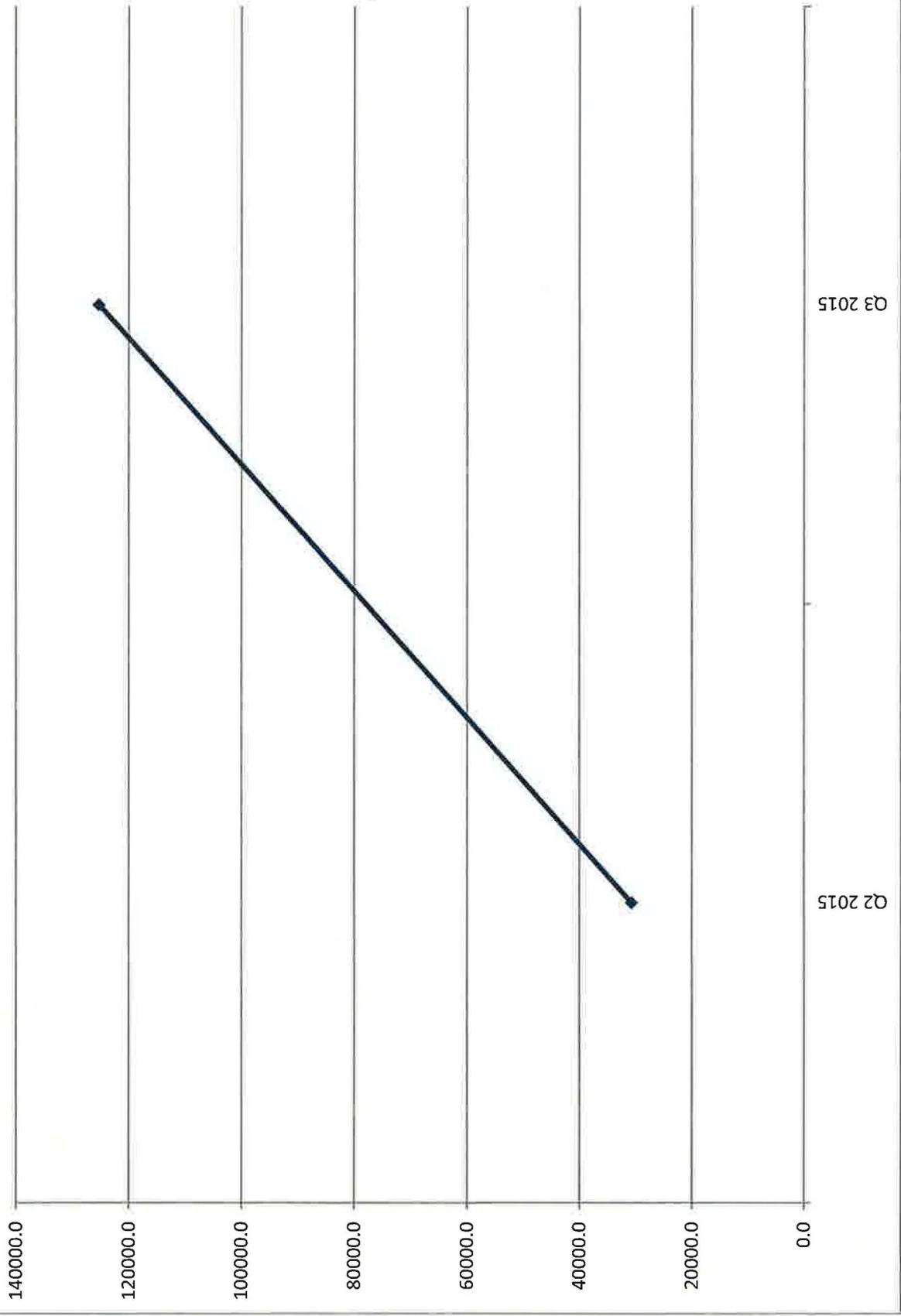
TW/4-19 Volume Pumped by Quarter (gal.)



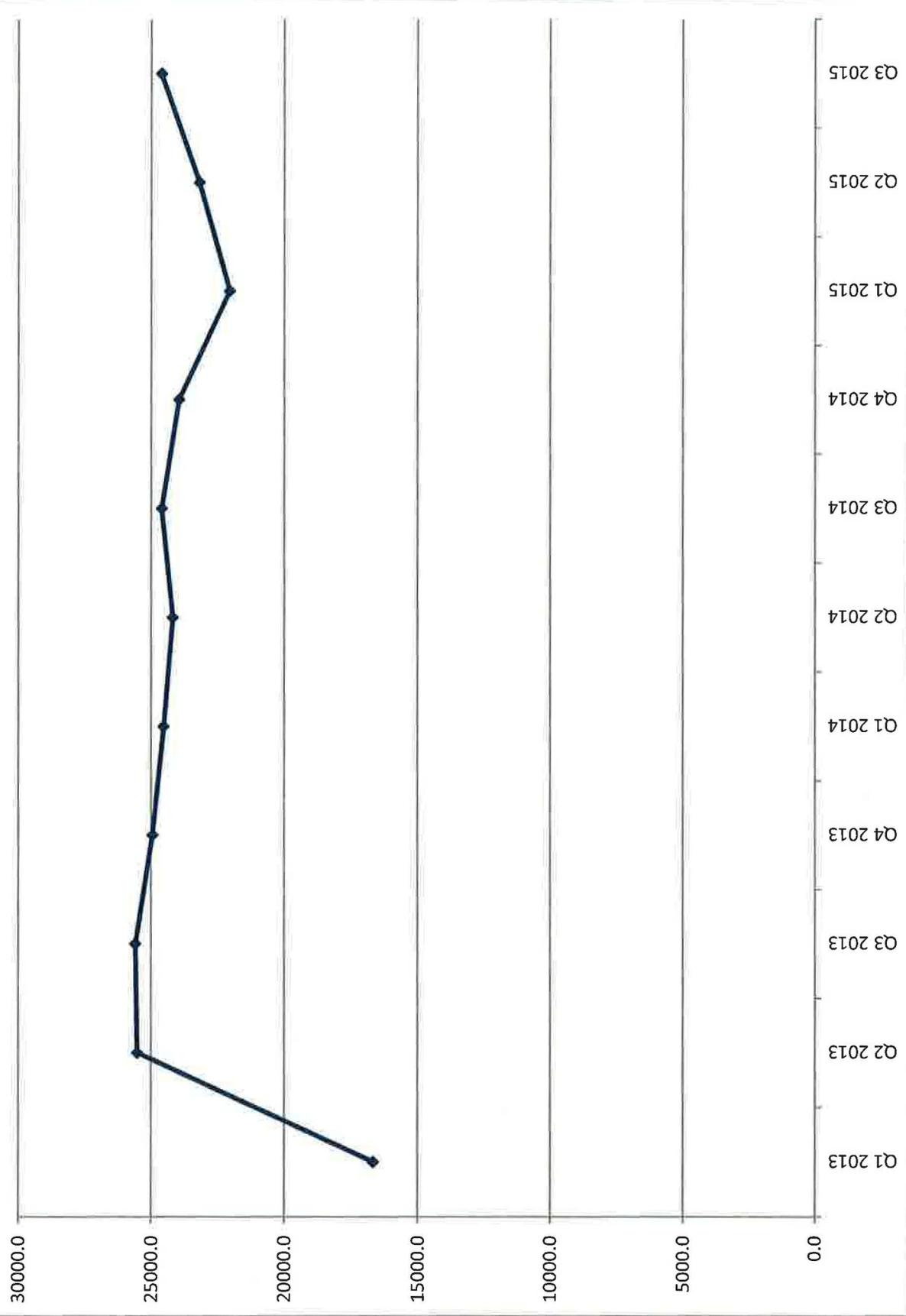
TW4-20 Volume Pumped by Quarter (gal.)



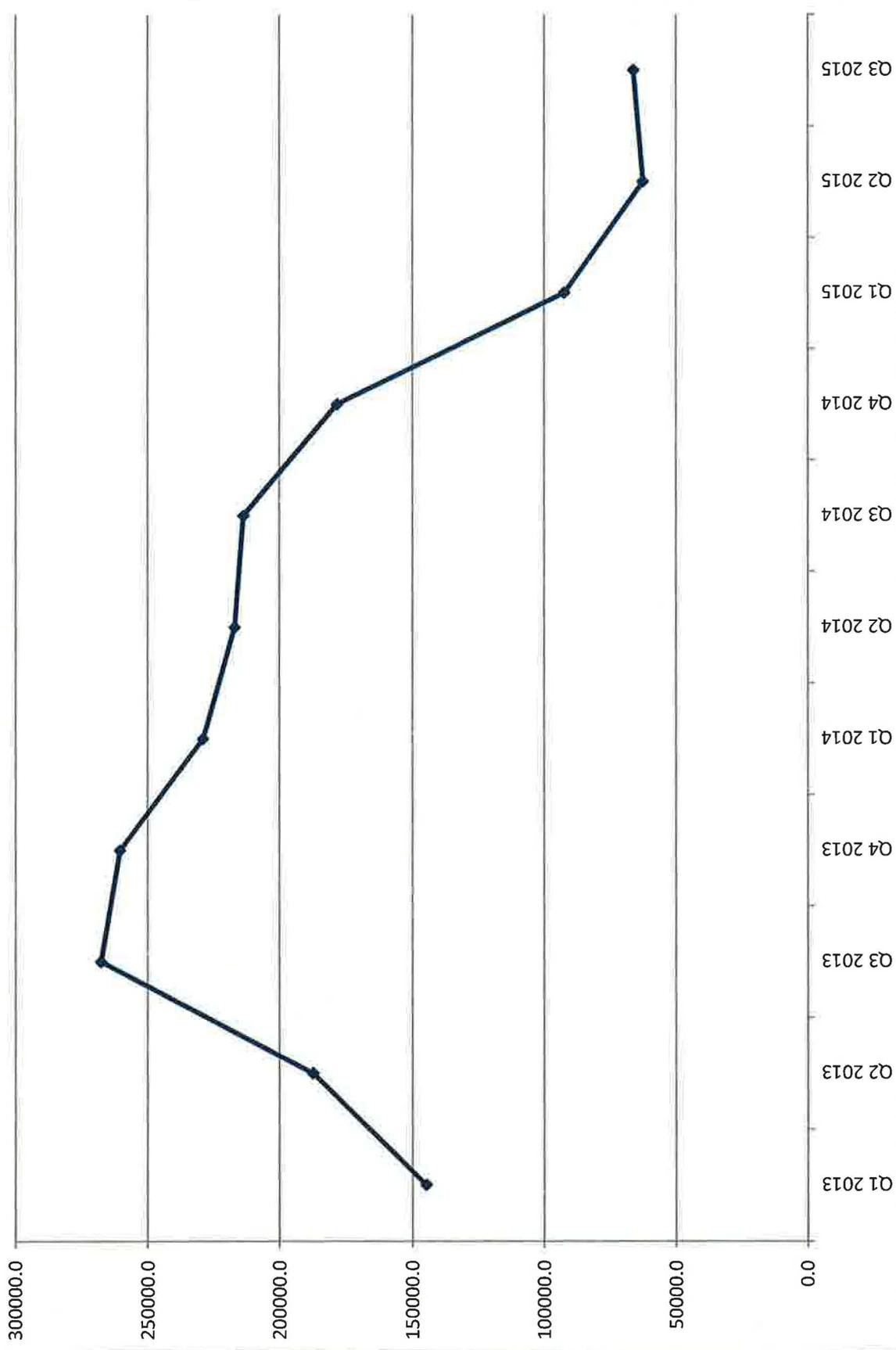
TW4-21 Volume Pumped by Quarter (gal.)



TW4-22 Volume Pumped by Quarter (gal.)



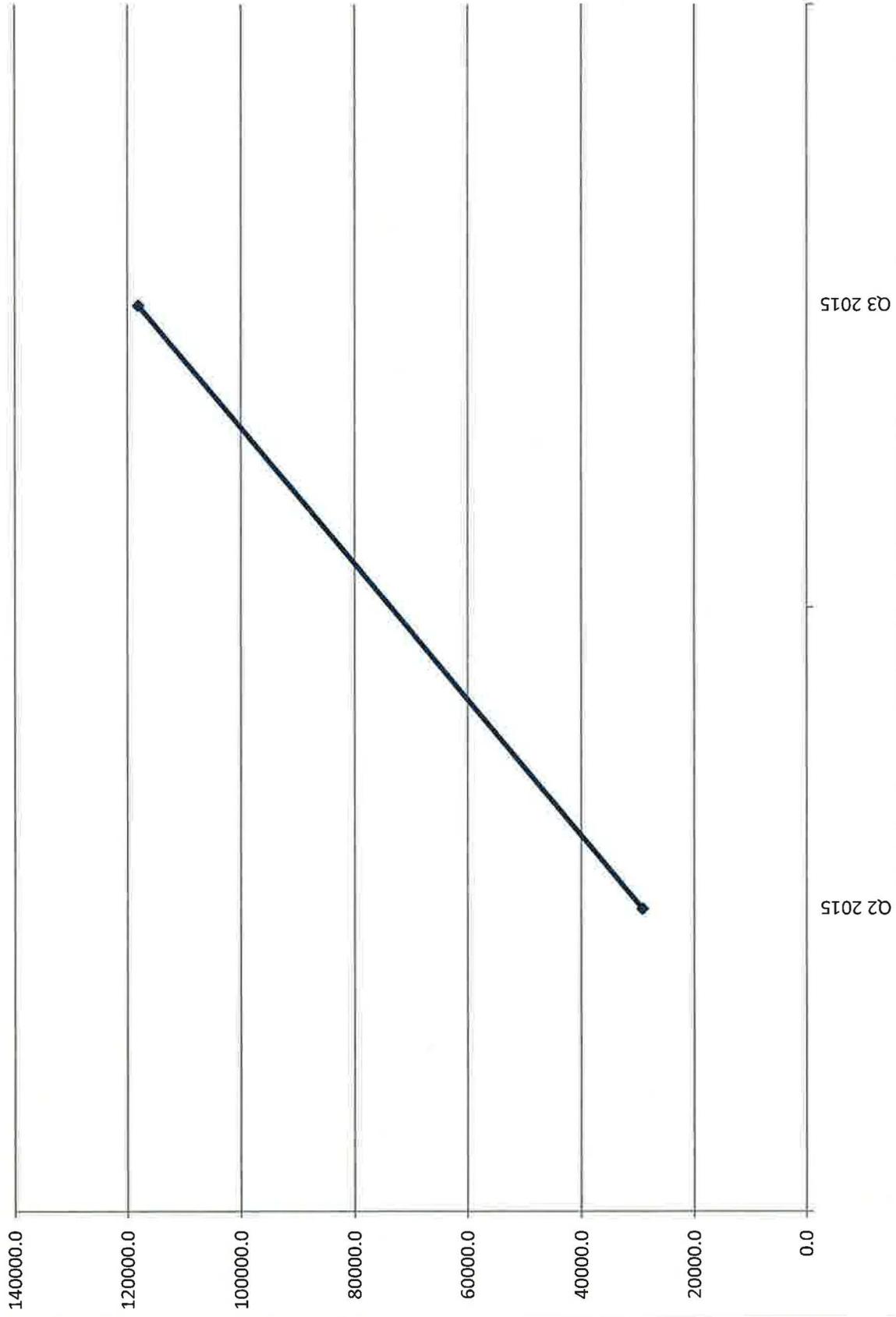
TW4-24 Volume Pumped by Quarter (gal.)



TW4-25 Volume Pumped by Quarter (gal.)



TW4-37 Volume Pumped by Quarter (gal.)



Tab H

Laboratory Analytical Reports



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-028

Client Sample ID: MW-04_08312015

Collection Date: 8/31/2015 1455h

Received Date: 9/4/2015 1030h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 344h	E300.0	10.0	44.3	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 954h	E353.2	1.00	4.79	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-028C
Client Sample ID: MW-04_08312015
Collection Date: 8/31/2015 1455h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1535h

Units: µg/L

Dilution Factor: 50

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,290	-

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,560	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,750	2,500	110	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,490	2,500	99.6	80-124	
Surr: Toluene-d8	2037-26-5	2,640	2,500	106	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1637h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	1.42	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.8	50.00	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-026

Client Sample ID: TW4-01_08312015

Collection Date: 8/31/2015 1502h

Received Date: 9/4/2015 1030h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 310h	E300.0	10.0	45.9	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1757h	E353.2	1.00	6.28	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-026C
Client Sample ID: TW4-01_08312015
Collection Date: 8/31/2015 1502h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1456h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,060	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,480	2,500	99.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,620	2,500	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,460	2,500	98.4	80-124	
Surr: Toluene-d8	2037-26-5	2,570	2,500	103	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1558h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.2	50.00	100	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	99.9	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-030

Client Sample ID: TW4-02_08312015

Collection Date: 8/31/2015 1437h

Received Date: 9/4/2015 1030h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 437h	E300.0	10.0	50.0	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1008h	E353.2	1.00	3.76	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-030C
Client Sample ID: TW4-02_08312015
Collection Date: 8/31/2015 1437h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1614h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,310	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,540	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,680	2,500	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,470	2,500	98.9	80-124	
Surr: Toluene-d8	2037-26-5	2,590	2,500	104	77-129	

-- The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1716h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	2.58	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.2	50.00	100	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-002

Client Sample ID: TW4-03_09022015

Collection Date: 9/2/2015 705h

Received Date: 9/4/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1447h	E300.0	10.0	27.4	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1541h	E353.2	0.100	3.88	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-002C
Client Sample ID: TW4-03_09022015
Collection Date: 9/2/2015 705h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1245h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.1	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	53.6	50.00	107	77-129	

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-001
Client Sample ID: TW4-03R_09012015
Collection Date: 9/1/2015 737h
Received Date: 9/4/2015 1030h

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 2222h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1539h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-001C
Client Sample ID: TW4-03R_09012015
Collection Date: 9/1/2015 737h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1225h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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web: www.awal-labs.com

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.9	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	54.1	50.00	108	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-027
Client Sample ID: TW4-04_08312015
Collection Date: 8/31/2015 1512h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 327h	E300.0	10.0	45.8	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 947h	E353.2	1.00	6.45	

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Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-027C
Client Sample ID: TW4-04_08312015
Collection Date: 8/31/2015 1512h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1516h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,220	-

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,550	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,660	2,500	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,520	2,500	101	80-124	
Surr: Toluene-d8	2037-26-5	2,590	2,500	103	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1617h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	1.72	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.0	50.00	99.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.9	50.00	104	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-015
Client Sample ID: TW4-05_09032015
Collection Date: 9/3/2015 853h
Received Date: 9/4/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 2007h	E300.0	10.0	52.2	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1522h	E353.2	1.00	8.10	

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-015C
Client Sample ID: TW4-05_09032015
Collection Date: 9/3/2015 853h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1758h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	12.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.9	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.9	50.00	108	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509241-004

Client Sample ID: TW4-06_09102015

Collection Date: 9/10/2015 715h

Received Date: 9/11/2015 1030h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/16/2015 1507h	E300.0	10.0	47.0	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1035h	E353.2	0.500	6.75	

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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-004C
Client Sample ID: TW4-06_09102015
Collection Date: 9/10/2015 715h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1705h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,040	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,530	2,500	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,680	2,500	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,470	2,500	98.9	80-124	
Surr: Toluene-d8	2037-26-5	2,580	2,500	103	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/11/2015 1448h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.2	50.00	98.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	98.1	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.3	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-002
Client Sample ID: TW4-07_09102015
Collection Date: 9/10/2015 703h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/16/2015 1433h	E300.0	10.0	46.7	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1019h	E353.2	0.500	4.72	'@

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

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-002C
Client Sample ID: TW4-07_09102015
Collection Date: 9/10/2015 703h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1626h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	897	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,550	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,720	2,500	109	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,490	2,500	99.7	80-124	
Surr: Toluene-d8	2037-26-5	2,600	2,500	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/11/2015 1330h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-007
Client Sample ID: TW4-07R_09092015
Collection Date: 9/9/2015 823h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/16/2015 1648h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1039h	E353.2	0.100	< 0.100	

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Kyle F. Gross
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Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-007C
Client Sample ID: TW4-07R_09092015
Collection Date: 9/9/2015 823h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1547h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	1.06	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-003
Client Sample ID: TW4-08_09102015
Collection Date: 9/10/2015 710h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/16/2015 1450h	E300.0	10.0	59.6	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1034h	E353.2	0.100	1.96	

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Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-003C
Client Sample ID: TW4-08_09102015
Collection Date: 9/10/2015 710h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1646h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	747	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,550	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,670	2,500	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,480	2,500	99.3	80-124	
Surr: Toluene-d8	2037-26-5	2,590	2,500	103	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/11/2015 1349h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-017
Client Sample ID: TW4-09_09032015
Collection Date: 9/3/2015 910h
Received Date: 9/4/2015 1030h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 2115h	E300.0	10.0	39.5	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1730h	E353.2	1.00	1.44	

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Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-017C
Client Sample ID: TW4-09_09032015
Collection Date: 9/3/2015 910h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1837h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	48.2	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.0	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	53.8	50.00	108	77-129	

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-005
Client Sample ID: TW4-10_09102015
Collection Date: 9/10/2015 723h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/16/2015 1524h	E300.0	10.0	89.5	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1036h	E353.2	1.00	14.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-005C
Client Sample ID: TW4-10_09102015
Collection Date: 9/10/2015 723h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1725h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,280	-

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,550	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,650	2,500	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,490	2,500	99.7	80-124	
Surr: Toluene-d8	2037-26-5	2,590	2,500	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/11/2015 1508h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.0	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.4	50.00	111	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.4	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-032
Client Sample ID: TW4-11_08312015
Collection Date: 8/31/2015 1428h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 511h	E300.0	10.0	73.1	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1011h	E353.2	1.00	9.61	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-032C
Client Sample ID: TW4-11_08312015
Collection Date: 8/31/2015 1428h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1654h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,120	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,500	2,500	99.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,670	2,500	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,400	2,500	96.2	80-124	
Surr: Toluene-d8	2037-26-5	2,600	2,500	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1755h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	1.62	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.4	50.00	94.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.7	50.00	95.4	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.1	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-003
Client Sample ID: TW4-12_09022015
Collection Date: 9/2/2015 715h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1538h	E300.0	10.0	60.2	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1532h	E353.2	1.00	16.4	

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QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-003C
Client Sample ID: TW4-12_09022015
Collection Date: 9/2/2015 715h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1304h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

3440 South 700 West
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.6	50.00	111	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	53.2	50.00	106	77-129	

web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-006
Client Sample ID: TW4-13_09022015
Collection Date: 9/2/2015 737h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 1628h	E300.0	10.0	76.5	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1534h	E353.2	1.00	5.70	

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QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-006C
Client Sample ID: TW4-13_09022015
Collection Date: 9/2/2015 737h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1502h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.1	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.1	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.7	50.00	107	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-012
Client Sample ID: TW4-14_09032015
Collection Date: 9/3/2015 825h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 1843h	E300.0	10.0	42.4	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1545h	E353.2	1.00	2.77	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-012C
Client Sample ID: TW4-14_09032015
Collection Date: 9/3/2015 825h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1659h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.9	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.4	50.00	111	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	53.1	50.00	106	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-031
Client Sample ID: MW-26_08312015
Collection Date: 8/31/2015 1420h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1951h	E300.0	10.0	69.6	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1734h	E353.2	0.100	0.684	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-031C
Client Sample ID: MW-26_08312015
Collection Date: 8/31/2015 1420h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1634h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	2,350	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,540	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,690	2,500	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,470	2,500	98.7	80-124	
Surr: Toluene-d8	2037-26-5	2,580	2,500	103	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 9/6/2015 1735h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	4.05	
Methylene chloride	75-09-2	1.00	11.6	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.4	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-018
Client Sample ID: TW4-16_09032015
Collection Date: 9/3/2015 917h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 2132h	E300.0	10.0	65.8	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1732h	E353.2	1.00	1.18	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-018C
Client Sample ID: TW4-16_09032015
Collection Date: 9/3/2015 917h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1857h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	82.0	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.4	50.00	109	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.0	50.00	106	77-129	

Kyle F. Gross
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-001
Client Sample ID: MW-32_09092015
Collection Date: 9/9/2015 1310h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Analytical Results

3440 South 700 West
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<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/16/2015 1343h	E300.0	10.0	37.7	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1017h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-001C
Client Sample ID: MW-32_09092015
Collection Date: 9/9/2015 1310h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1310h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	< 1.00			
Chloroform	67-66-3	1.00	< 1.00			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

Kyle F. Gross
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Jose Rocha
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-016
Client Sample ID: TW4-18_09032015
Collection Date: 9/3/2015 901h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 2058h	E300.0	10.0	47.6	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1547h	E353.2	5.00	15.7	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-016C
Client Sample ID: TW4-18_09032015
Collection Date: 9/3/2015 901h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1818h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	28.7	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.9	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.4	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	54.0	50.00	108	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-029
Client Sample ID: TW4-19_08312015
Collection Date: 8/31/2015 1535h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 054h	E300.0	100	326	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1053h	E353.2	1.00	11.6	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-029C
Client Sample ID: TW4-19_08312015
Collection Date: 8/31/2015 1535h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1555h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	7,860	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,120	5,000	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,310	5,000	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	4,900	5,000	98.0	80-124	
Surr: Toluene-d8	2037-26-5	5,200	5,000	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 9/6/2015 1656h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	7.78	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.2	50.00	110	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-034
Client Sample ID: TW4-20_08312015
Collection Date: 8/31/2015 1413h
Received Date: 9/4/2015 1030h

Analytical Results

3440 South 700 West
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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/13/2015 111h	E300.0	100	365	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1013h	E353.2	1.00	9.27	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-034C
Client Sample ID: TW4-20_08312015
Collection Date: 8/31/2015 1413h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1733h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	100	17,000	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,140	5,000	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,430	5,000	109	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,010	5,000	100	80-124	
Surr: Toluene-d8	2037-26-5	5,230	5,000	105	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 9/6/2015 1834h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	15.1			
Chloromethane	74-87-3	1.00	12.3			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.3	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.5	50.00	109	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	52.4	50.00	105	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-025

Client Sample ID: TW4-21_08312015

Collection Date: 8/31/2015 1327h

Received Date: 9/4/2015 1030h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 037h	E300.0	100	499	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1755h	E353.2	1.00	14.7	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-025C
Client Sample ID: TW4-21_08312015
Collection Date: 8/31/2015 1327h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1437h

Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	281	-

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	511	500.0	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	542	500.0	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	503	500.0	101	80-124	
Surr: Toluene-d8	2037-26-5	515	500.0	103	77-129	

-- The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1538h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.5	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.1	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-033
Client Sample ID: TW4-22_08312015
Collection Date: 8/31/2015 1359h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/14/2015 1209h	E300.0	100	557	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1012h	E353.2	5.00	64.7	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-033C
Client Sample ID: TW4-22_08312015
Collection Date: 8/31/2015 1359h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1713h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	7,810	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,540	2,500	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,670	2,500	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,460	2,500	98.4	80-124	
Surr: Toluene-d8	2037-26-5	2,620	2,500	105	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 9/6/2015 1814h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	5.47	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.1	50.00	100	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.7	50.00	109	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-024
Client Sample ID: TW4-23_09032015
Collection Date: 9/3/2015 813h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 252h	E300.0	10.0	54.1	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1749h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-024C
Client Sample ID: TW4-23_09032015
Collection Date: 9/3/2015 813h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1519h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.3	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.8	50.00	97.7	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-021
Client Sample ID: TW4-24_08312015
Collection Date: 8/31/2015 1348h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 2346h	E300.0	100	788	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1734h	E353.2	5.00	25.3	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-021C
Client Sample ID: TW4-24_08312015
Collection Date: 8/31/2015 1348h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1322h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	46.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.7	50.00	97.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.4	50.00	94.9	80-124	
Surr: Toluene-d8	2037-26-5	48.6	50.00	97.3	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-011
Client Sample ID: TW4-25_08312015
Collection Date: 8/31/2015 1335h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 1826h	E300.0	10.0	69.2	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1507h	E353.2	0.100	1.63	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-011C
Client Sample ID: TW4-25_08312015
Collection Date: 8/31/2015 1335h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1640h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	57.5	50.00	115	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	54.4	50.00	109	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-014

Client Sample ID: TW4-26_09032015

Collection Date: 9/3/2015 844h

Received Date: 9/4/2015 1030h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 454h	E300.0	10.0	14.0	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1050h	E353.2	1.00	14.2	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-014C
Client Sample ID: TW4-26_09032015
Collection Date: 9/3/2015 844h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1739h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

<u>Compound</u>	<u>CAS Number</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	4.77	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

<u>Surrogate</u>	<u>CAS</u>	<u>Result</u>	<u>Amount Spiked</u>	<u>% REC</u>	<u>Limits</u>	<u>Qual</u>
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	57.5	50.00	115	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-008
Client Sample ID: TW4-27_09022015
Collection Date: 9/2/2015 750h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 1736h	E300.0	10.0	26.8	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1540h	E353.2	10.0	20.9	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-008C
Client Sample ID: TW4-27_09022015
Collection Date: 9/2/2015 750h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1541h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	1.30	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.7	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.3	50.00	113	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.1	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.8	50.00	108	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-004
Client Sample ID: TW4-28_09022015
Collection Date: 9/2/2015 725h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1555h	E300.0	10.0	61.4	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1533h	E353.2	1.00	17.8	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-004C
Client Sample ID: TW4-28_09022015
Collection Date: 9/2/2015 725h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1324h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.0	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.1	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.9	50.00	108	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-020
Client Sample ID: TW4-29_09032015
Collection Date: 9/3/2015 933h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 2205h	E300.0	10.0	47.3	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1548h	E353.2	1.00	2.19	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-020C
Client Sample ID: TW4-29_09032015
Collection Date: 9/3/2015 933h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1812h

Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	276	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	508	500.0	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	541	500.0	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	490	500.0	97.9	80-124	
Surr: Toluene-d8	2037-26-5	518	500.0	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 9/6/2015 1302h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.9	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.9	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	99.9	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-013
Client Sample ID: TW4-30_09032015
Collection Date: 9/3/2015 834h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/12/2015 1934h	E300.0	10.0	44.2	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1729h	E353.2	1.00	1.75	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-013C
Client Sample ID: TW4-30_09032015
Collection Date: 9/3/2015 834h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1719h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	3.27	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.8	50.00	114	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.8	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	54.3	50.00	109	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-009

Client Sample ID: TW4-31_09022015

Collection Date: 9/2/2015 757h

Received Date: 9/4/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1753h	E300.0	10.0	30.4	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1706h	E353.2	0.100	0.916	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-009C
Client Sample ID: TW4-31_09022015
Collection Date: 9/2/2015 757h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1601h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

<u>Compound</u>	<u>CAS Number</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

<u>Surrogate</u>	<u>CAS</u>	<u>Result</u>	<u>Amount Spiked</u>	<u>% REC</u>	<u>Limits</u>	<u>Qual</u>
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.2	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.4	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-005
Client Sample ID: TW4-32_09022015
Collection Date: 9/2/2015 730h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1612h	E300.0	10.0	59.6	
Nitrate/Nitrite (as N)	mg/L		9/17/2015 1543h	E353.2	1.00	5.09	1

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-005C
Client Sample ID: TW4-32_09022015
Collection Date: 9/2/2015 730h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1442h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.0	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.7	50.00	107	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-019
Client Sample ID: TW4-33_09032015
Collection Date: 9/3/2015 925h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 2149h	E300.0	10.0	53.4	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1733h	E353.2	1.00	1.64	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-019C
Client Sample ID: TW4-33_09032015
Collection Date: 9/3/2015 925h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1243h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	123	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	77-129	

Kyle F. Gross
Laboratory Director

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-022

Client Sample ID: TW4-34_09032015

Collection Date: 9/3/2015 754h

Received Date: 9/4/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/13/2015 144h	E300.0	10.0	15.1	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1746h	E353.2	0.100	0.458	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

Lab Sample ID: 1509123-022C

Client Sample ID: TW4-34_09032015

Collection Date: 9/3/2015 754h

Received Date: 9/4/2015 1030h

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1440h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.8	50.00	99.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.5	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-023
Client Sample ID: TW4-35_09032015
Collection Date: 9/3/2015 803h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

3440 South 700 West
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<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 235h	E300.0	10.0	35.9	
Nitrate/Nitrite (as N)	mg/L		9/10/2015 1747h	E353.2	0.100	0.304	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-023C
Client Sample ID: TW4-35_09032015
Collection Date: 9/3/2015 803h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1459h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.6	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.9	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-007
Client Sample ID: TW4-36_09022015
Collection Date: 9/2/2015 743h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1645h	E300.0	10.0	76.4	
Nitrate/Nitrite (as N)	mg/L		9/22/2015 1702h	E353.2	0.100	< 0.100	

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Laboratory Director

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QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-007C
Client Sample ID: TW4-36_09022015
Collection Date: 9/2/2015 743h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1522h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.7	50.00	113	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.9	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	54.3	50.00	109	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-035
Client Sample ID: TW4-37_08312015
Collection Date: 8/31/2015 1405h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/13/2015 128h	E300.0	100	374	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1015h	E353.2	5.00	32.4	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-035C
Client Sample ID: TW4-37_08312015
Collection Date: 8/31/2015 1405h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1753h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	19,100	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,060	5,000	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,370	5,000	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	4,910	5,000	98.2	80-124	
Surr: Toluene-d8	2037-26-5	5,180	5,000	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 9/6/2015 1853h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Kyle F. Gross
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	16.6	
Chloromethane	74-87-3	1.00	13.7	
Methylene chloride	75-09-2	1.00	1.04	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.2	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-006
Client Sample ID: TW4-60_09102015
Collection Date: 9/10/2015 745h
Received Date: 9/11/2015 1030h

Analytical Results

3440 South 700 West
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<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		9/16/2015 1631h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		9/15/2015 1038h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-006C
Client Sample ID: TW4-60_09102015
Collection Date: 9/10/2015 745h
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1527h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.9	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-010
Client Sample ID: TW4-65_09022015
Collection Date: 9/2/2015 715h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/12/2015 1810h	E300.0	10.0	58.5	
Nitrate/Nitrite (as N)	mg/L		9/9/2015 1541h	E353.2	10.0	19.6	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-010C
Client Sample ID: TW4-65_09022015
Collection Date: 9/2/2015 715h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/6/2015 1620h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

3440 South 700 West
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.8	50.00	112	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	53.8	50.00	108	77-129	

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-036
Client Sample ID: TW4-70_09032015
Collection Date: 9/3/2015 813h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/13/2015 621h	E300.0	10.0	55.1	
Nitrate/Nitrite (as N)	mg/L		9/16/2015 934h	E353.2	0.100	< 0.100	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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-036C
Client Sample ID: TW4-70_09032015
Collection Date: 9/3/2015 813h
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1319h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.1	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.6	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509123-037A
Client Sample ID: Trip Blank
Collection Date: 8/31/2015
Received Date: 9/4/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/8/2015 1832h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.8	50.00	99.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.3	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.5	50.00	95.0	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	103	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Sample ID: 1509241-008A
Client Sample ID: Trip Blank
Collection Date: 9/9/2015
Received Date: 9/11/2015 1030h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/11/2015 1606h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.3	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	

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: 3rd Quarter Chloroform 2015

Dear Garrin Palmer:

Lab Set ID: 1509123

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 9/4/2015 for the analyses presented in the following report.

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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

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.

web: www.awal-labs.com

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.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:

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: 2015.09.28 13:15:57
-06'00'

Jose G.
Rocha

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123
Date Received: 9/4/2015 1030h

Contact: Garrin Palmer

3440 South 700 West Salt Lake City, UT 84119	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1509123-001A	TW4-03R_09012015	9/1/2015 737h	Aqueous	Anions, E300.0
	1509123-001B	TW4-03R_09012015	9/1/2015 737h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-001C	TW4-03R_09012015	9/1/2015 737h	Aqueous	VOA by GC/MS Method 8260C/5030C
Phone: (801) 263-8686	1509123-002A	TW4-03_09022015	9/2/2015 705h	Aqueous	Anions, E300.0
Toll Free: (888) 263-8686	1509123-002B	TW4-03_09022015	9/2/2015 705h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1509123-002C	TW4-03_09022015	9/2/2015 705h	Aqueous	VOA by GC/MS Method 8260C/5030C
e-mail: awal@awal-labs.com	1509123-003A	TW4-12_09022015	9/2/2015 715h	Aqueous	Anions, E300.0
	1509123-003B	TW4-12_09022015	9/2/2015 715h	Aqueous	Nitrite/Nitrate (as N), E353.2
web: www.awal-labs.com	1509123-003C	TW4-12_09022015	9/2/2015 715h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-004A	TW4-28_09022015	9/2/2015 725h	Aqueous	Anions, E300.0
Kyle F. Gross Laboratory Director	1509123-004B	TW4-28_09022015	9/2/2015 725h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-004C	TW4-28_09022015	9/2/2015 725h	Aqueous	VOA by GC/MS Method 8260C/5030C
Jose Rocha QA Officer	1509123-005A	TW4-32_09022015	9/2/2015 730h	Aqueous	Anions, E300.0
	1509123-005B	TW4-32_09022015	9/2/2015 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-005C	TW4-32_09022015	9/2/2015 730h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-006A	TW4-13_09022015	9/2/2015 737h	Aqueous	Anions, E300.0
	1509123-006B	TW4-13_09022015	9/2/2015 737h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-006C	TW4-13_09022015	9/2/2015 737h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-007A	TW4-36_09022015	9/2/2015 743h	Aqueous	Anions, E300.0
	1509123-007B	TW4-36_09022015	9/2/2015 743h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-007C	TW4-36_09022015	9/2/2015 743h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-008A	TW4-27_09022015	9/2/2015 750h	Aqueous	Anions, E300.0
	1509123-008B	TW4-27_09022015	9/2/2015 750h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-008C	TW4-27_09022015	9/2/2015 750h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-009A	TW4-31_09022015	9/2/2015 757h	Aqueous	Anions, E300.0
	1509123-009B	TW4-31_09022015	9/2/2015 757h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509123-009C	TW4-31_09022015	9/2/2015 757h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509123-010A	TW4-65_09022015	9/2/2015 715h	Aqueous	Anions, E300.0
	1509123-010B	TW4-65_09022015	9/2/2015 715h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123
Date Received: 9/4/2015 1030h

Contact: Garrin Palmer

3440 South 700 West
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
1509123-010C	TW4-65_09022015	9/2/2015 715h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-011A	TW4-25_08312015	8/31/2015 1335h	Aqueous	Anions, E300.0
1509123-011B	TW4-25_08312015	8/31/2015 1335h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-011C	TW4-25_08312015	8/31/2015 1335h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-012A	TW4-14_09032015	9/3/2015 825h	Aqueous	Anions, E300.0
1509123-012B	TW4-14_09032015	9/3/2015 825h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-012C	TW4-14_09032015	9/3/2015 825h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-013A	TW4-30_09032015	9/3/2015 834h	Aqueous	Anions, E300.0
1509123-013B	TW4-30_09032015	9/3/2015 834h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-013C	TW4-30_09032015	9/3/2015 834h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-014A	TW4-26_09032015	9/3/2015 844h	Aqueous	Anions, E300.0
1509123-014B	TW4-26_09032015	9/3/2015 844h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-014C	TW4-26_09032015	9/3/2015 844h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-015A	TW4-05_09032015	9/3/2015 853h	Aqueous	Anions, E300.0
1509123-015B	TW4-05_09032015	9/3/2015 853h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-015C	TW4-05_09032015	9/3/2015 853h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-016A	TW4-18_09032015	9/3/2015 901h	Aqueous	Anions, E300.0
1509123-016B	TW4-18_09032015	9/3/2015 901h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-016C	TW4-18_09032015	9/3/2015 901h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-017A	TW4-09_09032015	9/3/2015 910h	Aqueous	Anions, E300.0
1509123-017B	TW4-09_09032015	9/3/2015 910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-017C	TW4-09_09032015	9/3/2015 910h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-018A	TW4-16_09032015	9/3/2015 917h	Aqueous	Anions, E300.0
1509123-018B	TW4-16_09032015	9/3/2015 917h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-018C	TW4-16_09032015	9/3/2015 917h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-019A	TW4-33_09032015	9/3/2015 925h	Aqueous	Anions, E300.0
1509123-019B	TW4-33_09032015	9/3/2015 925h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-019C	TW4-33_09032015	9/3/2015 925h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-020A	TW4-29_09032015	9/3/2015 933h	Aqueous	Anions, E300.0
1509123-020B	TW4-29_09032015	9/3/2015 933h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123
Date Received: 9/4/2015 1030h

Contact: Garrin Palmer

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Salt Lake City, UT 84119

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 web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1509123-020C	TW4-29_09032015	9/3/2015 933h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-021A	TW4-24_08312015	8/31/2015 1348h	Aqueous	Anions, E300.0
1509123-021B	TW4-24_08312015	8/31/2015 1348h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-021C	TW4-24_08312015	8/31/2015 1348h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-022A	TW4-34_09032015	9/3/2015 754h	Aqueous	Anions, E300.0
1509123-022B	TW4-34_09032015	9/3/2015 754h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-022C	TW4-34_09032015	9/3/2015 754h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-023A	TW4-35_09032015	9/3/2015 803h	Aqueous	Anions, E300.0
1509123-023B	TW4-35_09032015	9/3/2015 803h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-023C	TW4-35_09032015	9/3/2015 803h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-024A	TW4-23_09032015	9/3/2015 813h	Aqueous	Anions, E300.0
1509123-024B	TW4-23_09032015	9/3/2015 813h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-024C	TW4-23_09032015	9/3/2015 813h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-025A	TW4-21_08312015	8/31/2015 1327h	Aqueous	Anions, E300.0
1509123-025B	TW4-21_08312015	8/31/2015 1327h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-025C	TW4-21_08312015	8/31/2015 1327h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-026A	TW4-01_08312015	8/31/2015 1502h	Aqueous	Anions, E300.0
1509123-026B	TW4-01_08312015	8/31/2015 1502h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-026C	TW4-01_08312015	8/31/2015 1502h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-027A	TW4-04_08312015	8/31/2015 1512h	Aqueous	Anions, E300.0
1509123-027B	TW4-04_08312015	8/31/2015 1512h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-027C	TW4-04_08312015	8/31/2015 1512h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-028A	MW-04_08312015	8/31/2015 1455h	Aqueous	Anions, E300.0
1509123-028B	MW-04_08312015	8/31/2015 1455h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-028C	MW-04_08312015	8/31/2015 1455h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-029A	TW4-19_08312015	8/31/2015 1535h	Aqueous	Anions, E300.0
1509123-029B	TW4-19_08312015	8/31/2015 1535h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-029C	TW4-19_08312015	8/31/2015 1535h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-030A	TW4-02_08312015	8/31/2015 1437h	Aqueous	Anions, E300.0
1509123-030B	TW4-02_08312015	8/31/2015 1437h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123
Date Received: 9/4/2015 1030h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1509123-030C	TW4-02_08312015	8/31/2015 1437h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-031A	MW-26_08312015	8/31/2015 1420h	Aqueous	Anions, E300.0
1509123-031B	MW-26_08312015	8/31/2015 1420h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-031C	MW-26_08312015	8/31/2015 1420h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-032A	TW4-11_08312015	8/31/2015 1428h	Aqueous	Anions, E300.0
1509123-032B	TW4-11_08312015	8/31/2015 1428h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-032C	TW4-11_08312015	8/31/2015 1428h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-033A	TW4-22_08312015	8/31/2015 1359h	Aqueous	Anions, E300.0
1509123-033B	TW4-22_08312015	8/31/2015 1359h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-033C	TW4-22_08312015	8/31/2015 1359h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-034A	TW4-20_08312015	8/31/2015 1413h	Aqueous	Anions, E300.0
1509123-034B	TW4-20_08312015	8/31/2015 1413h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-034C	TW4-20_08312015	8/31/2015 1413h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-035A	TW4-37_08312015	8/31/2015 1405h	Aqueous	Anions, E300.0
1509123-035B	TW4-37_08312015	8/31/2015 1405h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-035C	TW4-37_08312015	8/31/2015 1405h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-036A	TW4-70_09032015	9/3/2015 813h	Aqueous	Anions, E300.0
1509123-036B	TW4-70_09032015	9/3/2015 813h	Aqueous	Nitrite/Nitrate (as N), E353.2
1509123-036C	TW4-70_09032015	9/3/2015 813h	Aqueous	VOA by GC/MS Method 8260C/5030C
1509123-037A	Trip Blank	8/31/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 9/4/2015
Date(s) of Collection: 8/31-9/3/2015
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
1509123-005B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1509123-036B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1509241-002B	Nitrate-Nitrite (as N)	MSD/RPD	Sample matrix interference or suspected sample non-homogeneity
1509381-003C	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509123

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 9/4/2015
Date(s) of Collection: 8/31-9/3/2015
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody
Method: SW-846 8260C/5030C
Analysis: Volatile Organic Compounds

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

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

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

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

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

Laboratory Control Sample (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.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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-R82766													
Date Analyzed: 09/12/2015 1430h													
Test Code: 300.0-W													
Chloride	5.10	mg/L	E300.0	0.00751	0.100	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R82767													
Date Analyzed: 09/12/2015 2330h													
Test Code: 300.0-W													
Chloride	5.13	mg/L	E300.0	0.00751	0.100	5.000	0	103	90 - 110				
Lab Sample ID: LCS-R82792													
Date Analyzed: 09/14/2015 1153h													
Test Code: 300.0-W													
Chloride	5.07	mg/L	E300.0	0.00751	0.100	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R82651													
Date Analyzed: 09/09/2015 1445h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.960	mg/L	E353.2	0.00833	0.0100	1.000	0	96.0	90 - 110				
Lab Sample ID: LCS-R82716													
Date Analyzed: 09/10/2015 1724h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.980	mg/L	E353.2	0.00833	0.0100	1.000	0	98.0	90 - 110				
Lab Sample ID: LCS-R82866													
Date Analyzed: 09/15/2015 945h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00833	0.0100	1.000	0	105	90 - 110				
Lab Sample ID: LCS-R82882													
Date Analyzed: 09/16/2015 933h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.0100	1.000	0	106	90 - 110				
Lab Sample ID: LCS-R82927													
Date Analyzed: 09/17/2015 1541h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00833	0.0100	1.000	0	101	90 - 110				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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-R83139 Date Analyzed: 09/22/2015 1533h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.992	mg/L	E353.2	0.00833	0.0100	1.000	0	99.2	90 - 110				
Lab Sample ID: LCS-R83140 Date Analyzed: 09/22/2015 1656h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.913	mg/L	E353.2	0.00833	0.0100	1.000	0	91.3	90 - 110				



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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-R82766 Date Analyzed: 09/12/2015 1414h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R82767 Date Analyzed: 09/12/2015 2313h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R82792 Date Analyzed: 09/14/2015 1136h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R82651 Date Analyzed: 09/09/2015 1443h													
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-R82716 Date Analyzed: 09/10/2015 1721h													
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-R82866 Date Analyzed: 09/15/2015 942h													
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-R82882 Date Analyzed: 09/16/2015 930h													
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-R82927 Date Analyzed: 09/17/2015 1540h													
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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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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-R83139													
Date Analyzed: 09/22/2015 1531h													
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-R83140													
Date Analyzed: 09/22/2015 1654h													
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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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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: 1509123-002AMS Date Analyzed: 09/12/2015 1504h													
Test Code: 300.0-W													
Chloride	75.6	mg/L	E300.0	0.0751	1.00	50.00	27.4	96.4	90 - 110				
Lab Sample ID: 1509123-012AMS Date Analyzed: 09/12/2015 1900h													
Test Code: 300.0-W													
Chloride	92.6	mg/L	E300.0	0.0751	1.00	50.00	42.4	100	90 - 110				
Lab Sample ID: 1509123-021AMS Date Analyzed: 09/13/2015 003h													
Test Code: 300.0-W													
Chloride	1,760	mg/L	E300.0	1.50	20.0	1,000	788	97.1	90 - 110				
Lab Sample ID: 1509123-028AMS Date Analyzed: 09/13/2015 402h													
Test Code: 300.0-W													
Chloride	91.4	mg/L	E300.0	0.0751	1.00	50.00	44.3	94.2	90 - 110				
Lab Sample ID: 1509123-033AMS Date Analyzed: 09/14/2015 1226h													
Test Code: 300.0-W													
Chloride	1,010	mg/L	E300.0	0.751	10.0	500.0	557	91.2	90 - 110				
Lab Sample ID: 1509123-011BMS Date Analyzed: 09/09/2015 1543h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0833	0.100	10.00	1.63	102	90 - 110				
Lab Sample ID: 1509123-021BMS Date Analyzed: 09/10/2015 1743h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	125	mg/L	E353.2	0.833	1.00	100.0	25.3	99.5	90 - 110				
Lab Sample ID: 1509123-027BMS Date Analyzed: 09/15/2015 952h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.9	mg/L	E353.2	0.0833	0.100	10.00	6.45	94.4	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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: 1509241-002BMS Date Analyzed: 09/15/2015 1031h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.60	mg/L	E353.2	0.0417	0.0500	5.000	4.72	97.7	90 - 110				
Lab Sample ID: 1509123-036BMS Date Analyzed: 09/16/2015 938h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100	1.000	0	0	90 - 110				1
Lab Sample ID: 1509123-005BMS Date Analyzed: 09/17/2015 1544h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.8	mg/L	E353.2	0.0833	0.100	10.00	5.09	66.8	90 - 110				1
Lab Sample ID: 1509123-002BMS Date Analyzed: 09/22/2015 1542h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.0	mg/L	E353.2	0.0833	0.100	10.00	3.89	101	90 - 110				
Lab Sample ID: 1509123-007BMS Date Analyzed: 09/22/2015 1726h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.94	mg/L	E353.2	0.0833	0.100	10.00	0	99.4	90 - 110				
Lab Sample ID: 1509381-003CMS Date Analyzed: 09/22/2015 1737h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	4.91	mg/L	E353.2	0.0417	0.0500	5.000	0.795	82.3	90 - 110				1

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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: 1509123-002AMSD Date Analyzed: 09/12/2015 1521h													
Test Code: 300.0-W													
Chloride	76.2	mg/L	E300.0	0.0751	1.00	50.00	27.4	97.5	90 - 110	75.6	0.746	20	
Lab Sample ID: 1509123-012AMSD Date Analyzed: 09/12/2015 1917h													
Test Code: 300.0-W													
Chloride	93.1	mg/L	E300.0	0.0751	1.00	50.00	42.4	101	90 - 110	92.6	0.536	20	
Lab Sample ID: 1509123-021AMSD Date Analyzed: 09/13/2015 020h													
Test Code: 300.0-W													
Chloride	1,750	mg/L	E300.0	1.50	20.0	1,000	788	96.5	90 - 110	1760	0.376	20	
Lab Sample ID: 1509123-028AMSD Date Analyzed: 09/13/2015 419h													
Test Code: 300.0-W													
Chloride	91.0	mg/L	E300.0	0.0751	1.00	50.00	44.3	93.3	90 - 110	91.4	0.518	20	
Lab Sample ID: 1509123-033AMSD Date Analyzed: 09/14/2015 1243h													
Test Code: 300.0-W													
Chloride	1,010	mg/L	E300.0	0.751	10.0	500.0	557	90.8	90 - 110	1010	0.244	20	
Lab Sample ID: 1509123-011BMSD Date Analyzed: 09/09/2015 1544h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0833	0.100	10.00	1.63	103	90 - 110	11.9	0.253	10	
Lab Sample ID: 1509123-021BMSD Date Analyzed: 09/10/2015 1745h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	121	mg/L	E353.2	0.833	1.00	100.0	25.3	95.8	90 - 110	125	3.01	10	
Lab Sample ID: 1509123-027BMSD Date Analyzed: 09/15/2015 953h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.1	mg/L	E353.2	0.0833	0.100	10.00	6.45	96.4	90 - 110	15.9	1.25	10	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd 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: 1509241-002BMSD Date Analyzed: 09/15/2015 1032h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	7.84	mg/L	E353.2	0.0417	0.0500	5.000	4.72	62.5	90 - 110	9.6	20.2	10	'@
Lab Sample ID: 1509123-036BMSD Date Analyzed: 09/16/2015 940h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100	1.000	0	0	90 - 110	0	0	10	'
Lab Sample ID: 1509123-005BMSD Date Analyzed: 09/17/2015 1545h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0833	0.100	10.00	5.09	68.3	90 - 110	11.8	1.27	10	'
Lab Sample ID: 1509123-002BMSD Date Analyzed: 09/22/2015 1544h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.8	mg/L	E353.2	0.0833	0.100	10.00	3.89	99.0	90 - 110	14	1.44	10	
Lab Sample ID: 1509123-007BMSD Date Analyzed: 09/22/2015 1727h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.4	mg/L	E353.2	0.0833	0.100	10.00	0	104	90 - 110	9.94	4.63	10	
Lab Sample ID: 1509381-003CMSD Date Analyzed: 09/22/2015 1738h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	5.02	mg/L	E353.2	0.0417	0.0500	5.000	0.795	84.4	90 - 110	4.91	2.08	10	'

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

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



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 090615A Date Analyzed: 09/06/2015 1144h													
Test Code: 8260-W-DEN100													
Chloroform	21.6	µg/L	SW8260C	0.153	1.00	20.00	0	108	67 - 132				
Methylene chloride	19.4	µg/L	SW8260C	0.172	1.00	20.00	0	96.8	32 - 185				
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.6	80 - 152				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	67 - 128				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	81 - 135				
Lab Sample ID: LCS VOC-2 090815A Date Analyzed: 09/08/2015 1116h													
Test Code: 8260-W-DEN100													
Chloroform	21.1	µg/L	SW8260C	0.153	1.00	20.00	0	106	67 - 132				
Methylene chloride	19.2	µg/L	SW8260C	0.172	1.00	20.00	0	96.0	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	80 - 152				
Surr: Dibromofluoromethane	53.8	µg/L	SW8260C			50.00		108	67 - 128				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 135				
Lab Sample ID: LCS VOC-1 090615A Date Analyzed: 09/06/2015 1127h													
Test Code: 8260-W-DEN100													
Chloroform	20.1	µg/L	SW8260C	0.153	1.00	20.00	0	100	67 - 132				
Methylene chloride	20.0	µg/L	SW8260C	0.172	1.00	20.00	0	100	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.3	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	53.1	µg/L	SW8260C			50.00		106	80 - 152				
Surr: Dibromofluoromethane	53.4	µg/L	SW8260C			50.00		107	67 - 128				
Surr: Toluene-d8	53.5	µg/L	SW8260C			50.00		107	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 090615A Date Analyzed: 09/06/2015 1206h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	54.7	µg/L	SW8260C			50.00		109	76 - 138				
Surr: 4-Bromofluorobenzene	56.6	µg/L	SW8260C			50.00		113	80 - 152				
Surr: Dibromofluoromethane	53.3	µg/L	SW8260C			50.00		107	67 - 128				
Surr: Toluene-d8	55.0	µg/L	SW8260C			50.00		110	81 - 135				
Lab Sample ID: MB VOC-2 090615A Date Analyzed: 09/06/2015 1223h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	50.8	µg/L	SW8260C			50.00		102	76 - 138				
Surr: 4-Bromofluorobenzene	53.1	µg/L	SW8260C			50.00		106	80 - 152				
Surr: Dibromofluoromethane	49.7	µg/L	SW8260C			50.00		99.4	67 - 128				
Surr: Toluene-d8	51.3	µg/L	SW8260C			50.00		103	81 - 135				
Lab Sample ID: MB VOC-2 090815A Date Analyzed: 09/08/2015 1057h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	50.7	µg/L	SW8260C			50.00		101	76 - 138				
Surr: 4-Bromofluorobenzene	54.1	µg/L	SW8260C			50.00		108	80 - 152				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 090815A		Date Analyzed: 09/08/2015 1057h											
Test Code: 8260-W-DEN100													
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	52.3	µg/L	SW8260C			50.00		105	81 - 135				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1509123-001CMS		Date Analyzed: 09/06/2015 1403h											
Test Code: 8260-W-DEN100													
Chloroform	21.6	µg/L	SW8260C	0.153	1.00	20.00	0	108	50 - 146				
Methylene chloride	21.5	µg/L	SW8260C	0.172	1.00	20.00	0	107	30 - 192				
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	53.6	µg/L	SW8260C			50.00		107	80 - 152				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	53.7	µg/L	SW8260C			50.00		107	77 - 129				
Lab Sample ID: 1509123-019CMS		Date Analyzed: 09/06/2015 1401h											
Test Code: 8260-W-DEN100													
Chloroform	147	µg/L	SW8260C	0.153	1.00	20.00	123	118	50 - 146				
Methylene chloride	20.8	µg/L	SW8260C	0.172	1.00	20.00	0	104	30 - 192				
Surr: 1,2-Dichloroethane-d4	51.0	µg/L	SW8260C			50.00		102	72 - 151				
Surr: 4-Bromofluorobenzene	50.7	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	80 - 124				
Surr: Toluene-d8	50.2	µg/L	SW8260C			50.00		100	77 - 129				
Lab Sample ID: 1509145-001AMS		Date Analyzed: 09/08/2015 1358h											
Test Code: 8260-W-DEN100													
Chloroform	202	µg/L	SW8260C	1.53	10.0	200.0	0	101	50 - 146				
Methylene chloride	201	µg/L	SW8260C	1.72	10.0	200.0	0	101	30 - 192				
Surr: 1,2-Dichloroethane-d4	510	µg/L	SW8260C			500.0		102	72 - 151				
Surr: 4-Bromofluorobenzene	509	µg/L	SW8260C			500.0		102	80 - 152				
Surr: Dibromofluoromethane	514	µg/L	SW8260C			500.0		103	80 - 124				
Surr: Toluene-d8	499	µg/L	SW8260C			500.0		99.9	77 - 129				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509123
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1509123-001CMSD Date Analyzed: 09/06/2015 1423h													
Test Code: 8260-W-DEN100													
Chloroform	21.3	µg/L	SW8260C	0.153	1.00	20.00	0	106	50 - 146	21.6	1.40	25	
Methylene chloride	20.9	µg/L	SW8260C	0.172	1.00	20.00	0	104	30 - 192	21.5	2.74	25	
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	53.4	µg/L	SW8260C			50.00		107	80 - 152				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	53.2	µg/L	SW8260C			50.00		106	77 - 129				
Lab Sample ID: 1509123-019CMSD Date Analyzed: 09/06/2015 1420h													
Test Code: 8260-W-DEN100													
Chloroform	144	µg/L	SW8260C	0.153	1.00	20.00	123	105	50 - 146	147	1.70	25	
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	30 - 192	20.8	1.02	25	
Surr: 1,2-Dichloroethane-d4	50.7	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	51.3	µg/L	SW8260C			50.00		103	80 - 152				
Surr: Dibromofluoromethane	50.7	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.1	77 - 129				
Lab Sample ID: 1509145-001AMSD Date Analyzed: 09/08/2015 1417h													
Test Code: 8260-W-DEN100													
Chloroform	209	µg/L	SW8260C	1.53	10.0	200.0	0	105	50 - 146	202	3.26	25	
Methylene chloride	201	µg/L	SW8260C	1.72	10.0	200.0	0	101	30 - 192	201	0.0497	25	
Surr: 1,2-Dichloroethane-d4	509	µg/L	SW8260C			500.0		102	72 - 151				
Surr: 4-Bromofluorobenzene	508	µg/L	SW8260C			500.0		102	80 - 152				
Surr: Dibromofluoromethane	514	µg/L	SW8260C			500.0		103	80 - 124				
Surr: Toluene-d8	496	µg/L	SW8260C			500.0		99.1	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1509123**

Page 1 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Client ID: DEN100

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

QC Level: III

WO Type: Project

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

eh

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1509123-001A	TW4-03R_09012015	9/1/2015 0737h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509123-001B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-001C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-002A	TW4-03_09022015	9/2/2015 0705h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509123-002B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-002C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-003A	TW4-12_09022015	9/2/2015 0715h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509123-003B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-003C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-004A	TW4-28_09022015	9/2/2015 0725h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509123-004B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-004C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-005A	TW4-32_09022015	9/2/2015 0730h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509123-005B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-005C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				

WORK ORDER Summary

Work Order: **1509123**

Page 2 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1509123-006A	TW4-13_09022015	9/2/2015 0737h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-006B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-006C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-007A	TW4-36_09022015	9/2/2015 0743h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-007B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-007C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-008A	TW4-27_09022015	9/2/2015 0750h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-008B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-008C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-009A	TW4-31_09022015	9/2/2015 0757h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-009B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-009C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-010A	TW4-65_09022015	9/2/2015 0715h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-010B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-010C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-011A	TW4-25_08312015	8/31/2015 1335h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1509123-011B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1509123-011C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1509123-012A	TW4-14_09032015	9/3/2015 0825h	9/4/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1

WORK ORDER Summary

Work Order: **1509123**

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Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Storage	
1509123-012B	TW4-14_09032015	9/3/2015 0825h	9/4/2015 1030h	NO2/NO3-W-353.2	Aqueous	df - no2/no3	1
1509123-012C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-013A	TW4-30_09032015	9/3/2015 0834h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-013B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1509123-013C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-014A	TW4-26_09032015	9/3/2015 0844h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-014B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1509123-014C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-015A	TW4-05_09032015	9/3/2015 0853h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-015B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1509123-015C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-016A	TW4-18_09032015	9/3/2015 0901h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-016B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1509123-016C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-017A	TW4-09_09032015	9/3/2015 0910h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-017B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1509123-017C				8260-W-DEN100		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			
1509123-018A	TW4-16_09032015	9/3/2015 0917h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
1509123-018B				NO2/NO3-W-353.2		df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>			

WORK ORDER Summary

Work Order: **1509123** Page 4 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1509123-018C	TW4-16_09032015	9/3/2015 0917h	9/4/2015 1030h	8260-W-DEN100	Aqueous		VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-019A	TW4-33_09032015	9/3/2015 0925h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-019B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-019C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-020A	TW4-29_09032015	9/3/2015 0933h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-020B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-020C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-021A	TW4-24_08312015	8/31/2015 1348h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-021B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-021C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-022A	TW4-34_09032015	9/3/2015 0754h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-022B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-022C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-023A	TW4-35_09032015	9/3/2015 0803h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-023B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-023C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1509123-024A	TW4-23_09032015	9/3/2015 0813h	9/4/2015 1030h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1509123-024B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1509123-024C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								

WORK ORDER Summary

Work Order: **1509123** Page 5 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1509123-025A	TW4-21_08312015	8/31/2015 1327h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-025B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-025C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-026A	TW4-01_08312015	8/31/2015 1502h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-026B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-026C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-027A	TW4-04_08312015	8/31/2015 1512h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-027B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-027C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-028A	MW-04_08312015	8/31/2015 1455h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-028B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-028C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-029A	TW4-19_08312015	8/31/2015 1535h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-029B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-029C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-030A	TW4-02_08312015	8/31/2015 1437h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				
1509123-030B				NO2/NO3-W-353.2				df - no2/no3
				<i>1 SEL Analytes: NO3NO2N</i>				
1509123-030C				8260-W-DEN100		VOCFridge		3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509123-031A	MW-26_08312015	8/31/2015 1420h	9/4/2015 1030h	300.0-W	Aqueous	df - wc		1
				<i>1 SEL Analytes: CL</i>				

WORK ORDER Summary

Work Order: **1509123** Page 6 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 9/16/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1509123-031B	MW-26_08312015	8/31/2015 1420h	9/4/2015 1030h	NO2/NO3-W-353.2	Aqueous	df - no2/no3	1
				1 SEL Analytes: NO3NO2N			
1509123-031C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-032A	TW4-11_08312015	8/31/2015 1428h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1509123-032B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1509123-032C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-033A	TW4-22_08312015	8/31/2015 1359h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1509123-033B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1509123-033C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-034A	TW4-20_08312015	8/31/2015 1413h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1509123-034B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1509123-034C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-035A	TW4-37_08312015	8/31/2015 1405h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1509123-035B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1509123-035C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-036A	TW4-70_09032015	9/3/2015 0813h	9/4/2015 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1509123-036B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1509123-036C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1509123-037A	Trip Blank	8/31/2015	9/4/2015 1030h	8260-W-DEN100	Aqueous	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			



**American West
Analytical Laboratories**

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.

1509123

AWAL Lab Sample Set #
 Page 1 of 3

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Garrin Palmer**
 Phone #: **(435) 678-2221** Cell #:
gpalmer@energyfuels.com; kweinel@energyfuels.com;
 Email: **dturk@energyfuels.com**
 Project Name: **3rd Quarter Chloroform 2015**
 Project #:
 PO #:
 Sampler Name: **Tanner Holliday**

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								
Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NOS (953.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments	Laboratory Use Only	
									1	2
1 TW4-03R_09012015	9/1/2015	737	5	W	X	X	X			Samples Were: UP <input checked="" type="checkbox"/> Shipped or hand delivered 2 Ambient or Chilled 3 Temperature 1.6 °C 4 Received Broken/Leaking (Improperly Sealed) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 5 Properly Preserved <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Checked at bench <input type="checkbox"/> Y <input type="checkbox"/> N 6 Received Within Holding Times <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2 TW4-03_09022015	9/2/2015	705	5	W	X	X	X			
3 TW4-12_09022015	9/2/2015	715	5	W	X	X	X			
4 TW4-28_09022015	9/2/2015	725	5	W	X	X	X			
5 TW4-32_09022015	9/2/2015	730	5	W	X	X	X			
6 TW4-13_09022015	9/2/2015	737	5	W	X	X	X			
7 TW4-36_09022015	9/2/2015	743	5	W	X	X	X			
8 TW4-27_09022015	9/2/2015	750	5	W	X	X	X			
9 TW4-31_09022015	9/2/2015	757	5	W	X	X	X			
10 TW4-65_09022015	9/2/2015	715	5	W	X	X	X			
TW4-25_08312015	8/31/2015	1335	5	W	X	X	X			
11 TW4-14_09032015	9/3/2015	825	5	W	X	X	X			
12 TW4-30_09032015	9/3/2015	834	5	W	X	X	X			

Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NOS (953.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1 TW4-03R_09012015	9/1/2015	737	5	W	X	X	X	
2 TW4-03_09022015	9/2/2015	705	5	W	X	X	X	
3 TW4-12_09022015	9/2/2015	715	5	W	X	X	X	
4 TW4-28_09022015	9/2/2015	725	5	W	X	X	X	
5 TW4-32_09022015	9/2/2015	730	5	W	X	X	X	
6 TW4-13_09022015	9/2/2015	737	5	W	X	X	X	
7 TW4-36_09022015	9/2/2015	743	5	W	X	X	X	
8 TW4-27_09022015	9/2/2015	750	5	W	X	X	X	
9 TW4-31_09022015	9/2/2015	757	5	W	X	X	X	
10 TW4-65_09022015	9/2/2015	715	5	W	X	X	X	
TW4-25_08312015	8/31/2015	1335	5	W	X	X	X	
11 TW4-14_09032015	9/3/2015	825	5	W	X	X	X	
12 TW4-30_09032015	9/3/2015	834	5	W	X	X	X	

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

Discrepancies Between Sample Labels and COC Record?
 Y N

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 9/3/2015	Received by: Signature: <i>[Signature]</i>	Date: 9-4-15
Print Name: Tanner Holliday	Time: 1230	Print Name: <i>[Name]</i>	Time: 1030
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
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

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1509/23

AWAL Lab Sample Set #

Page 2 of 3

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: _____
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com;**
dturk@energyfuels.com
Project Name: **3rd Quarter Chloroform 2015**
Project #: _____
PO #: _____
Sampler Name: **Tanner Holliday**

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								
Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO ₂ /NO ₃ (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments	Laboratory Use Only	
									1	2
1 TW4-26_09032015	9/3/2015	844	5	W	X	X	X			Samples Were: MP 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature 1.6 °C 4 Received Broken/Leaking (Improperly Sealed) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 5 Properly Preserved <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Checked at bench <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 6 Received Within Holding Times <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2 TW4-05_09032015	9/3/2015	853	5	W	X	X	X			
3 TW4-18_09032015	9/3/2015	901	5	W	X	X	X			
4 TW4-09_09032015	9/3/2015	910	5	W	X	X	X			
5 TW4-16_09032015	9/3/2015	917	5	W	X	X	X			
6 TW4-33_09032015	9/3/2015	925	5	W	X	X	X			
7 TW4-29_09032015	9/3/2015	933	5	W	X	X	X			
8 TW4-24_08312015	8/31/2015	1348	5	W	X	X	X			
9 TW4-34_09032015	9/3/2015	754	5	W	X	X	X			
10 TW4-35_09032015	9/3/2015	803	5	W	X	X	X			
11 TW4-23_09032015	9/3/2015	813	5	W	X	X	X			
12 TW4-21_08312015	8/31/2015	1327	5	W	X	X	X			
13 TW4-01_08312015	8/31/2015	1502	5	W	X	X	X			

Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

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

Known Hazards & Sample Comments

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

Discrepancies Between Sample Labels and COC Record?
 Y N

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 9/3/2015	Received by: Signature: <i>Delana Day</i>	Date: 9-4-15	Special Instructions: See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1230	Print Name: Delana Day	Time: 1530	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: _____	Date: _____	
Print Name: _____	Time: _____	Print Name: _____	Time: _____	



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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.

1509123
 AWAL Lab Sample Set #
 Page 3 of 3

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Garrin Palmer**
 Phone #: **(435) 678-2221** Cell #:
gpalmer@energyfuels.com; KWeinel@energyfuels.com;
 Email: **dturk@energyfuels.com**
 Project Name: **3rd Quarter Chloroform 2015**
 Project #:
 PO #:
 Sampler Name: **Tanner Holliday**

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								
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	Laboratory Use Only	
									Shipped or hand delivered	Ambient or Chilled
1 TW4-04_08312015	8/31/2015	1512	5	W	X	X	X		<input checked="" type="checkbox"/>	Temperature 1.6 °C
2 MW-04_08312015	8/31/2015	1455	5	W	X	X	X		<input checked="" type="checkbox"/>	Received Broken/Leaking (Improperly Sealed) Y <input type="checkbox"/> N
3 TW4-19_08312015	8/31/2015	1535	5	W	X	X	X		<input checked="" type="checkbox"/>	Properly Preserved Y <input type="checkbox"/> N
4 TW4-02_08312015	8/31/2015	1437	5	W	X	X	X		<input checked="" type="checkbox"/>	Checked at bench Y <input type="checkbox"/> N
5 MW-26_08312015	8/31/2015	1420	5	W	X	X	X		<input checked="" type="checkbox"/>	Received Within Holding Times Y <input type="checkbox"/> N
6 TW4-11_08312015	8/31/2015	1428	5	W	X	X	X		<input checked="" type="checkbox"/>	
7 TW4-22_08312015	8/31/2015	1359	5	W	X	X	X		<input checked="" type="checkbox"/>	
8 TW4-20_08312015	8/31/2015	1413	5	W	X	X	X		<input checked="" type="checkbox"/>	
9 TW4-37_08312015	8/31/2015	1405	5	W	X	X	X		<input checked="" type="checkbox"/>	
10 TW4-70_09032015	9/3/2015	813	5	W	X	X	X		<input checked="" type="checkbox"/>	
11 TRIP BLANK	8/31/2015		3	W			X		<input checked="" type="checkbox"/>	
12 TEMP BLANK	9/3/2015		1	W					<input checked="" type="checkbox"/>	
13									<input checked="" type="checkbox"/>	

X Include EDD:
LOCUS UPLOAD
EXCEL
 Field Filtered For:

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

Known Hazards & Sample Comments

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

Discrepancies Between Sample Labels and COC Record?
 Y N

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 9/3/2015 Time: 1230	Received by: Signature: <i>Edna Hog</i>	Date: 9-4-15 Time: 1036	Special Instructions: See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday		Received by: Signature: <i>Edna Hog</i>	Date: 9-4-15 Time: 1036	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:		Received by: Signature:	Date:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:		Received by: Signature:	Date:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:		Received by: Signature:	Date:	

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-SO ₄ E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO ₃	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO ₃	A2320 B	1 mg/L	14 days	None	≤ 6°C
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

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 ₂ SO ₄																		
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃																		
NO ₂ & NO ₃	pH <2 H ₂ SO ₄	Yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO 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.



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

RE: 3rd Quarter Chloroform 2015

Dear Garrin Palmer:

Lab Set ID: 1509241

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 9/11/2015 for the analyses presented in the following report.

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

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.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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: 2015.09.22 13:31:04 -06'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509241
Date Received: 9/11/2015 1030h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis	
3440 South 700 West Salt Lake City, UT 84119	1509241-001A	MW-32_09092015	9/9/2015 1310h	Aqueous	Anions, E300.0
	1509241-001B	MW-32_09092015	9/9/2015 1310h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509241-001C	MW-32_09092015	9/9/2015 1310h	Aqueous	VOA by GC/MS Method 8260C/5030C
Phone: (801) 263-8686	1509241-002A	TW4-07_09102015	9/10/2015 703h	Aqueous	Anions, E300.0
Toll Free: (888) 263-8686	1509241-002B	TW4-07_09102015	9/10/2015 703h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1509241-002C	TW4-07_09102015	9/10/2015 703h	Aqueous	VOA by GC/MS Method 8260C/5030C
e-mail: awal@awal-labs.com	1509241-003A	TW4-08_09102015	9/10/2015 710h	Aqueous	Anions, E300.0
	1509241-003B	TW4-08_09102015	9/10/2015 710h	Aqueous	Nitrite/Nitrate (as N), E353.2
web: www.awal-labs.com	1509241-003C	TW4-08_09102015	9/10/2015 710h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509241-004A	TW4-06_09102015	9/10/2015 715h	Aqueous	Anions, E300.0
Kyle F. Gross Laboratory Director	1509241-004B	TW4-06_09102015	9/10/2015 715h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509241-004C	TW4-06_09102015	9/10/2015 715h	Aqueous	VOA by GC/MS Method 8260C/5030C
Jose Rocha QA Officer	1509241-005A	TW4-10_09102015	9/10/2015 723h	Aqueous	Anions, E300.0
	1509241-005B	TW4-10_09102015	9/10/2015 723h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509241-005C	TW4-10_09102015	9/10/2015 723h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509241-006A	TW4-60_09102015	9/10/2015 745h	Aqueous	Anions, E300.0
	1509241-006B	TW4-60_09102015	9/10/2015 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509241-006C	TW4-60_09102015	9/10/2015 745h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509241-007A	TW4-07R_09092015	9/9/2015 823h	Aqueous	Anions, E300.0
	1509241-007B	TW4-07R_09092015	9/9/2015 823h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1509241-007C	TW4-07R_09092015	9/9/2015 823h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1509241-008A	Trip Blank	9/9/2015	Aqueous	VOA by GC/MS Method 8260C/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509241

Sample Receipt Information:

Date of Receipt: 9/11/2015
Date(s) of Collection: 9/9 & 9/10/2015
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 MSD percent recovery was outside of control limits due to sample matrix interference and the RPD was outside of limits due to suspected sample non-homogeneity or matrix interference for nitrate/nitrite on sample 1509241-002B.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Chloroform 2015
Lab Set ID: 1509241

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 9/11/2015
Date(s) of Collection: 9/9 & 9/10/2015
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260C/5030C
Analysis: Volatile Organic Compounds

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

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

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

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

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509241
Project: 3rd 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-R82902													
Date Analyzed: 09/16/2015 1326h													
Test Code: 300.0-W													
Chloride	5.11	mg/L	E300.0	0.00751	0.100	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R82866													
Date Analyzed: 09/15/2015 945h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00833	0.0100	1.000	0	105	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: 1509241

Project: 3rd 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-R82902													
Date Analyzed: 09/16/2015 1309h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R82866													
Date Analyzed: 09/15/2015 942h													
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: 1509241
Project: 3rd 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: 1509241-001AMS Date Analyzed: 09/16/2015 1359h													
Test Code: 300.0-W													
Chloride	83.6	mg/L	E300.0	0.0751	1.00	50.00	37.7	91.8	90 - 110				
Lab Sample ID: 1509123-027BMS Date Analyzed: 09/15/2015 952h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.9	mg/L	E353.2	0.0833	0.100	10.00	6.45	94.4	90 - 110				
Lab Sample ID: 1509241-002BMS Date Analyzed: 09/15/2015 1031h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.60	mg/L	E353.2	0.0417	0.0500	5.000	4.72	97.7	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: 1509241
Project: 3rd 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: 1509241-001AMSD Date Analyzed: 09/16/2015 1416h													
Test Code: 300.0-W													
Chloride	83.6	mg/L	E300.0	0.0751	1.00	50.00	37.7	91.9	90 - 110	83.6	0.0347	20	
Lab Sample ID: 1509123-027BMSD Date Analyzed: 09/15/2015 953h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.1	mg/L	E353.2	0.0833	0.100	10.00	6.45	96.4	90 - 110	15.9	1.25	10	
Lab Sample ID: 1509241-002BMSD Date Analyzed: 09/15/2015 1032h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	7.84	mg/L	E353.2	0.0417	0.0500	5.000	4.72	62.5	90 - 110	9.6	20.2	10	1@

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

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509241
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 091115A		Date Analyzed: 09/11/2015 1106h											
Test Code: 8260-W-DEN100													
Chloroform	20.1	µg/L	SW8260C	0.153	1.00	20.00	0	100	67 - 132				
Methylene chloride	18.4	µg/L	SW8260C	0.172	1.00	20.00	0	92.0	32 - 185				
Surr: 1,2-Dichloroethane-d4	52.9	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	51.4	µg/L	SW8260C			50.00		103	80 - 152				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	67 - 128				
Surr: Toluene-d8	50.3	µg/L	SW8260C			50.00		101	81 - 135				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509241
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 091115A		Date Analyzed: 09/11/2015 1145h											
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	50.9	µg/L	SW8260C			50.00		102	76 - 138				
Surr: 4-Bromofluorobenzene	52.4	µg/L	SW8260C			50.00		105	80 - 152				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.7	67 - 128				
Surr: Toluene-d8	51.7	µg/L	SW8260C			50.00		103	81 - 135				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509241
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1509241-001CMS		Date Analyzed: 09/11/2015 1409h											
Test Code: 8260-W-DEN100													
Chloroform	19.8	µg/L	SW8260C	0.153	1.00	20.00	0	99.0	50 - 146				
Methylene chloride	19.7	µg/L	SW8260C	0.172	1.00	20.00	0	98.3	30 - 192				
Surr: 1,2-Dichloroethane-d4	52.9	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	53.4	µg/L	SW8260C			50.00		107	80 - 152				
Surr: Dibromofluoromethane	53.0	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	51.9	µg/L	SW8260C			50.00		104	77 - 129				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1509241
Project: 3rd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1509241-001CMSD		Date Analyzed: 09/11/2015 1428h											
Test Code: 8260-W-DEN100													
Chloroform	19.4	µg/L	SW8260C	0.153	1.00	20.00	0	96.9	50 - 146	19.8	2.19	25	
Methylene chloride	19.6	µg/L	SW8260C	0.172	1.00	20.00	0	97.9	30 - 192	19.7	0.408	25	
Surr: 1,2-Dichloroethane-d4	52.3	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	52.2	µg/L	SW8260C			50.00		104	80 - 152				
Surr: Dibromofluoromethane	51.6	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1509241** Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 9/22/2015

Client ID: DEN100

Contact: Garrin Palmer

Project: 3rd Quarter Chloroform 2015

QC Level: III

WO Type: Project

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

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1509241-001A	MW-32_09092015	9/9/2015 1310h	9/11/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous		df - wc	1
1509241-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3	
1509241-001C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			VOCFridge	3
1509241-002A	TW4-07_09102015	9/10/2015 0703h	9/11/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous		df - wc	1
1509241-002B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3	
1509241-002C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			VOCFridge	3
1509241-003A	TW4-08_09102015	9/10/2015 0710h	9/11/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous		df - wc	1
1509241-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3	
1509241-003C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			VOCFridge	3
1509241-004A	TW4-06_09102015	9/10/2015 0715h	9/11/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous		df - wc	1
1509241-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3	
1509241-004C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			VOCFridge	3
1509241-005A	TW4-10_09102015	9/10/2015 0723h	9/11/2015 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous		df - wc	1
1509241-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3	
1509241-005C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>			VOCFridge	3

WORK ORDER SummaryWork Order: **1509241**

Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 9/22/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1509241-006A	TW4-60_09102015	9/10/2015 0745h	9/11/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509241-006B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509241-006C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509241-007A	TW4-07R_09092015	9/9/2015 0823h	9/11/2015 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1509241-007B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1509241-007C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1509241-008A	Trip Blank	9/9/2015	9/11/2015 1030h	8260-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				



**American West
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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.

1509241

AWAL Lab Sample Set #
 Page 1 of 1

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;**
dtork@energyfuels.com
 Project Name: **3rd Quarter Chloroform 2015**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

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								
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	Laboratory Use Only	
									Samples Were:	Field Filtered For:
1 MW-32_09092015	9/9/2015	1310	5	W	X	X	X		X	Include EDD: LOCUS UPLOAD EXCEL
2 TW4-07_09102015	9/10/2015	703	5	W	X	X	X			Field Filtered For:
3 TW4-08_09102015	9/10/2015	710	5	W	X	X	X			For Compliance With:
4 TW4-06_09102015	9/10/2015	715	5	W	X	X	X			<input type="checkbox"/> NELAP
5 TW4-10_09102015	9/10/2015	723	5	W	X	X	X			<input type="checkbox"/> RCRA
6 TW4-60_09102015	9/10/2015	745	5	W	X	X	X			<input type="checkbox"/> CWA
7 TW4-07R_09092015	9/9/2015	823	5	W	X	X	X			<input type="checkbox"/> SDWA
8 TRIP BLANK	9/9/2015		3	W			X			<input type="checkbox"/> ELAP / A2LA
9 TEMP BLANK	9/10/2015		1	W						<input type="checkbox"/> NLLAP
10										<input type="checkbox"/> Non-Compliance
11										<input type="checkbox"/> Other:
12										

Laboratory Use Only

Samples Were: **WPS**

1 Shipped or hand delivered Y

2 Ambient or Collected Y

3 Temperature **2.4** °C Y

4 Received Broken/Leaking (Improperly Sealed) Y N

5 Properly Preserved Y N

6 Checked at bench Y N

7 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: <i>Tanner Holliday</i> Signature	Date: 9/10/2015	Received by: <i>Denise Braun</i> Signature	Date: 9/11/15
Print Name: Tanner Holliday	Time: 1230	Print Name: Denise Braun	Time: 10:30
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____
Relinquished by: _____ Signature	Date: _____	Received by: _____ Signature	Date: _____
Print Name: _____	Time: _____	Print Name: _____	Time: _____

Special Instructions:

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

Lab Set ID: 1509241

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007										
Ammonia	pH <2 H ₂ SO ₄																	
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO ₃																	
NO ₂ & NO ₃	pH <2 H ₂ SO ₄	yes																
O & G	pH <2 HCL																	
Phenols	pH <2 H ₂ SO ₄																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H ₂ SO ₄																	
T PO ₄	pH <2 H ₂ SO 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 I

Quality Assurance and Data Validation Tables

I-1: Field QA/QC Evaluation

Location	1x Casing Volume	Volume Pumped	2x Casing Volume	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD
MW-4	NA	Continuously pumped well	--	--	1842		N/A	6.86		N/A	16.15		N/A	257		N/A	0.00		N/A
TW4-01	NA	Continuously pumped well	--	--	2222		N/A	6.74		N/A	15.64		N/A	244		N/A	12.1		N/A
TW4-02	NA	Continuously pumped well	--	--	3315		N/A	6.69		N/A	16.19		N/A	229		N/A	0.0		N/A
TW4-03	55.55	85.25	111	Pumped Dry	1676	1681	0.30	6.50	6.54	0.61	15.89	15.94	0.31	NM		NC	NM		NC
TW4-04	NA	Continuously pumped well	--	--	2304		N/A	6.67		N/A	15.31		N/A	277		N/A	3.2		N/A
TW4-05	36.76	88.00	74	OK	1452	1442	0.69	6.68	6.66	0.30	15.59	15.59	0.00	277	277	0.00	40	40	0.00
TW4-06	17.07	22.00	34	Pumped Dry	3295	3301	0.18	7.30	7.28	0.27	14.81	14.88	0.47	NM		NC	NM		NC
TW4-07	29.54	58.66	59	Pumped Dry	1562	1580	1.15	7.49	7.47	0.27	15.68	15.73	0.32	NM		NC	NM		NC
TW4-08	31.99	77.00	64	OK	4623	4618	0.11	6.78	6.78	0.00	15.07	15.06	0.07	299	298	0.34	21	21.0	0.00
TW4-09	38.16	88.00	76	OK	2398	2398	0.00	6.54	6.54	0.00	15.29	15.29	0.00	279	278	0.36	46	46.0	0.00
TW4-10	32.52	49.50	65	Pumped Dry	2700	2724	0.88	6.96	6.92	0.58	14.29	14.33	0.28	NM		NC	NM		NC
TW4-11	NA	Continuously pumped well	--	--	3464		N/A	6.82		N/A	15.45		N/A	177		N/A	8.1		N/A
TW4-12	36.69	55.00	73	Pumped Dry	1278	1296	1.40	7.06	7.05	0.14	14.88	14.93	0.34	NM		NC	NM		NC
TW4-13	33.49	47.66	67	Pumped Dry	1872	1890	0.96	7.14	7.11	0.42	14.50	14.53	0.21	NM		NC	NM		NC
TW4-14	7.87	11.00	16	Pumped Dry	4960	4972	0.24	6.66	6.70	0.60	15.18	15.20	0.13	NM		NC	NM		NC
MW-26	NA	Continuously pumped well	--	--	3351		N/A	6.62		N/A	17.01		N/A	197		N/A	3.4		N/A
TW4-16	51.27	121.00	103	OK	717	737	2.75	6.58	6.58	0.00	15.11	15.12	0.07	238	237	0.42	36.0	36.0	0.00
MW-32	36.24	78.12	72	OK	3674	3690	0.43	7.15	7.14	0.14	15.69	15.65	0.26	134	133	0.75	34.0	33.0	0.00
TW4-18	47.63	110.00	95	OK	851	870	2.21	6.38	6.37	0.16	15.64	15.63	0.06	284	284	0.00	73	73	0.00
TW4-19	NA	Continuously pumped well	--	--	617		N/A	6.75		N/A	16.81		N/A	301		N/A	0		N/A
TW4-20	NA	Continuously pumped well	--	--	4232		N/A	6.31		N/A	16.65		N/A	214		N/A	6.4		N/A
TW4-21	NA	Continuously pumped well	--	--	4298		N/A	6.56		N/A	17.33		N/A	394		N/A	11.9		N/A
TW4-22	NA	Continuously pumped well	--	--	5752		N/A	6.57		N/A	16.29		N/A	278		N/A	11.2		N/A
TW4-23	29.64	88.00	59	OK	3575	3575	0.00	6.54	6.56	0.31	14.50	14.50	0.00	181	178	1.67	22	22	0.00
TW4-24	NA	Continuously pumped well	--	--	5737		N/A	6.45		N/A	16.70		N/A	284		N/A	1		N/A
TW4-25	NA	Continuously pumped well	--	--	2668		N/A	6.84		N/A	16.11		N/A	329		N/A	12.0		N/A
TW4-26	13.12	16.50	26	Pumped Dry	6324	6350	0.41	4.54	4.53	0.22	15.06	15.10	0.27	NM		NC	NM		NC
TW4-27	10.46	11.00	21	Pumped Dry	5038	5051	0.26	6.86	6.82	0.58	14.60	14.62	0.14	NM		NC	NM		NC
TW4-28	44.14	71.50	88	Pumped Dry	1242	1243	0.08	7.09	7.09	0.00	14.42	14.47	0.35	NM		NC	NM		NC
TW4-29	13.26	16.50	27	Pumped Dry	4145	4142	0.07	6.82	6.83	0.15	15.06	15.12	0.40	NM		NC	NM		NC
TW4-30	10.64	14.66	21	Pumped Dry	4390	4388	0.05	6.43	6.40	0.47	14.97	15.00	0.20	NM		NC	NM		NC
TW4-31	16.71	19.25	33	Pumped Dry	4733	4735	0.04	6.77	6.75	0.30	14.64	14.65	0.07	NM		NC	NM		NC
TW4-32	41.92	88.00	84	OK	7403	7405	0.03	3.65	3.65	0.00	14.85	14.85	0.00	488	488	0.00	25	25	0.00
TW4-33	10.41	11.00	21	Pumped Dry	4410	4428	0.41	6.10	6.16	0.98	15.37	15.39	0.13	NM		NC	NM		NC
TW4-34	16.92	27.50	34	Pumped Dry	3798	3801	0.08	7.23	7.20	0.42	15.97	16.01	0.25	NM		NC	NM		NC
TW4-35	8.71	11.00	17	Pumped Dry	4275	4289	0.33	6.69	6.68	0.15	15.26	15.30	0.26	NM		NC	NM		NC
TW4-36	27.68	36.66	55	Pumped Dry	2290	2301	0.48	7.02	7.00	0.29	14.47	14.47	0.00	NM		NC	NM		NC
TW4-37	NA	Continuously pumped well	--	--	4678		N/A	6.83		N/A	16.42		N/A	272		N/A	7.5		N/A

MW-4, TW4-01, TW4-02, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, and TW4-37 are continually pumped wells. TW4-22, TW4-24, and TW4-25 are pumped under the nitrate program.

TW4-03, TW4-06, TW4-07, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, and TW4-36 were pumped dry and sampled after recovery.

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

RPD = Relative Percent Difference

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 are included for information purposes only.

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Carbon tetrachloride	8/31/2015	9/8/2015	8	14	OK
Trip Blank	Chloroform	8/31/2015	9/8/2015	8	14	OK
Trip Blank	Chloromethane	8/31/2015	9/8/2015	8	14	OK
Trip Blank	Methylene chloride	8/31/2015	9/8/2015	8	14	OK
Trip Blank	Carbon tetrachloride	9/9/2015	9/11/2015	2	14	OK
Trip Blank	Chloroform	9/9/2015	9/11/2015	2	14	OK
Trip Blank	Chloromethane	9/9/2015	9/11/2015	2	14	OK
Trip Blank	Methylene chloride	9/9/2015	9/11/2015	2	14	OK
MW-04	Chloride	8/31/2015	9/13/2015	13	28	OK
MW-04	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
MW-04	Chloroform	8/31/2015	9/8/2015	8	14	OK
MW-04	Chloromethane	8/31/2015	9/6/2015	6	14	OK
MW-04	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
MW-04	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-01	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-01	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-01	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-01	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-01	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-01	Nitrate/Nitrite (as N)	8/31/2015	9/10/2015	10	28	OK
TW4-02	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-02	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-02	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-02	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-02	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-02	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-03	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-03	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-03	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-03	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-03	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-03	Nitrate/Nitrite (as N)	9/2/2015	9/22/2015	20	28	OK
TW4-03R	Chloride	9/1/2015	9/12/2015	11	28	OK
TW4-03R	Carbon tetrachloride	9/1/2015	9/6/2015	5	14	OK
TW4-03R	Chloroform	9/1/2015	9/6/2015	5	14	OK
TW4-03R	Chloromethane	9/1/2015	9/6/2015	5	14	OK
TW4-03R	Methylene chloride	9/1/2015	9/6/2015	5	14	OK
TW4-03R	Nitrate/Nitrite (as N)	9/1/2015	9/22/2015	21	28	OK
TW4-04	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-04	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-04	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-04	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-04	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-04	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-05	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-05	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-05	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-05	Chloromethane	9/3/2015	9/6/2015	3	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-05	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-05	Nitrate/Nitrite (as N)	9/3/2015	9/9/2015	6	28	OK
TW4-06	Chloride	9/10/2015	9/16/2015	6	28	OK
TW4-06	Carbon tetrachloride	9/10/2015	9/11/2015	1	14	OK
TW4-06	Chloroform	9/10/2015	9/11/2015	1	14	OK
TW4-06	Chloromethane	9/10/2015	9/11/2015	1	14	OK
TW4-06	Methylene chloride	9/10/2015	9/11/2015	1	14	OK
TW4-06	Nitrate/Nitrite (as N)	9/10/2015	9/15/2015	5	28	OK
TW4-07	Chloride	9/10/2015	9/16/2015	6	28	OK
TW4-07	Carbon tetrachloride	9/10/2015	9/11/2015	1	14	OK
TW4-07	Chloroform	9/10/2015	9/11/2015	1	14	OK
TW4-07	Chloromethane	9/10/2015	9/11/2015	1	14	OK
TW4-07	Methylene chloride	9/10/2015	9/11/2015	1	14	OK
TW4-07	Nitrate/Nitrite (as N)	9/10/2015	9/15/2015	5	28	OK
TW4-07R	Chloride	9/9/2015	9/16/2015	7	28	OK
TW4-07R	Carbon tetrachloride	9/9/2015	9/11/2015	2	14	OK
TW4-07R	Chloroform	9/9/2015	9/11/2015	2	14	OK
TW4-07R	Chloromethane	9/9/2015	9/11/2015	2	14	OK
TW4-07R	Methylene chloride	9/9/2015	9/11/2015	2	14	OK
TW4-07R	Nitrate/Nitrite (as N)	9/9/2015	9/15/2015	6	28	OK
TW4-08	Chloride	9/10/2015	9/16/2015	6	28	OK
TW4-08	Carbon tetrachloride	9/10/2015	9/11/2015	1	14	OK
TW4-08	Chloroform	9/10/2015	9/11/2015	1	14	OK
TW4-08	Chloromethane	9/10/2015	9/11/2015	1	14	OK
TW4-08	Methylene chloride	9/10/2015	9/11/2015	1	14	OK
TW4-08	Nitrate/Nitrite (as N)	9/10/2015	9/15/2015	5	28	OK
TW4-09	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-09	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-09	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-09	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-09	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-09	Nitrate/Nitrite (as N)	9/3/2015	9/22/2015	19	28	OK
TW4-10	Chloride	9/10/2015	9/16/2015	6	28	OK
TW4-10	Carbon tetrachloride	9/10/2015	9/11/2015	1	14	OK
TW4-10	Chloroform	9/10/2015	9/11/2015	1	14	OK
TW4-10	Chloromethane	9/10/2015	9/11/2015	1	14	OK
TW4-10	Methylene chloride	9/10/2015	9/11/2015	1	14	OK
TW4-10	Nitrate/Nitrite (as N)	9/10/2015	9/15/2015	5	28	OK
TW4-11	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-11	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-11	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-11	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-11	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-11	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-12	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-12	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-12	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-12	Chloromethane	9/2/2015	9/6/2015	4	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-12	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-12	Nitrate/Nitrite (as N)	9/2/2015	9/9/2015	7	28	OK
TW4-13	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-13	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-13	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-13	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-13	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-13	Nitrate/Nitrite (as N)	9/2/2015	9/9/2015	7	28	OK
TW4-14	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-14	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-14	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-14	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-14	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-14	Nitrate/Nitrite (as N)	9/3/2015	9/9/2015	6	28	OK
MW-26	Chloride	8/31/2015	9/12/2015	12	28	OK
MW-26	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
MW-26	Chloroform	8/31/2015	9/8/2015	8	14	OK
MW-26	Chloromethane	8/31/2015	9/6/2015	6	14	OK
MW-26	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
MW-26	Nitrate/Nitrite (as N)	8/31/2015	9/22/2015	22	28	OK
TW4-16	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-16	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-16	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-16	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-16	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-16	Nitrate/Nitrite (as N)	9/3/2015	9/22/2015	19	28	OK
MW-32	Chloride	9/9/2015	9/16/2015	7	28	OK
MW-32	Carbon tetrachloride	9/9/2015	9/11/2015	2	14	OK
MW-32	Chloroform	9/9/2015	9/11/2015	2	14	OK
MW-32	Chloromethane	9/9/2015	9/11/2015	2	14	OK
MW-32	Methylene chloride	9/9/2015	9/11/2015	2	14	OK
MW-32	Nitrate/Nitrite (as N)	9/9/2015	9/15/2015	6	28	OK
TW4-18	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-18	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-18	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-18	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-18	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-18	Nitrate/Nitrite (as N)	9/3/2015	9/9/2015	6	28	OK
TW4-19	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-19	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-19	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-19	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-19	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-19	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-20	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-20	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-20	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-20	Chloromethane	8/31/2015	9/6/2015	6	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-20	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-20	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-21	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-21	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-21	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-21	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-21	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-21	Nitrate/Nitrite (as N)	8/31/2015	9/10/2015	10	28	OK
TW4-22	Chloride	8/31/2015	9/14/2015	14	28	OK
TW4-22	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-22	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-22	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-22	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-22	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-23	Chloride	9/3/2015	9/13/2015	10	28	OK
TW4-23	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-23	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-23	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-23	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-23	Nitrate/Nitrite (as N)	9/3/2015	9/10/2015	7	28	OK
TW4-24	Chloride	8/31/2015	9/12/2015	12	28	OK
TW4-24	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-24	Chloroform	8/31/2015	9/6/2015	6	14	OK
TW4-24	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-24	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-24	Nitrate/Nitrite (as N)	8/31/2015	9/10/2015	10	28	OK
TW4-25	Chloride	8/31/2015	9/12/2015	12	28	OK
TW4-25	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-25	Chloroform	8/31/2015	9/6/2015	6	14	OK
TW4-25	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-25	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-25	Nitrate/Nitrite (as N)	8/31/2015	9/9/2015	9	28	OK
TW4-26	Chloride	9/3/2015	9/13/2015	10	28	OK
TW4-26	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-26	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-26	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-26	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-26	Nitrate/Nitrite (as N)	9/3/2015	9/15/2015	12	28	OK
TW4-27	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-27	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-27	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-27	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-27	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-27	Nitrate/Nitrite (as N)	9/2/2015	9/9/2015	7	28	OK
TW4-28	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-28	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-28	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-28	Chloromethane	9/2/2015	9/6/2015	4	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-28	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-28	Nitrate/Nitrite (as N)	9/2/2015	9/9/2015	7	28	OK
TW4-29	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-29	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-29	Chloroform	9/3/2015	9/8/2015	5	14	OK
TW4-29	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-29	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-29	Nitrate/Nitrite (as N)	9/3/2015	9/9/2015	6	28	OK
TW4-30	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-30	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-30	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-30	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-30	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-30	Nitrate/Nitrite (as N)	9/3/2015	9/22/2015	19	28	OK
TW4-31	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-31	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-31	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-31	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-31	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-31	Nitrate/Nitrite (as N)	9/2/2015	9/22/2015	20	28	OK
TW4-32	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-32	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-32	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-32	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-32	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-32	Nitrate/Nitrite (as N)	9/2/2015	9/17/2015	15	28	OK
TW4-33	Chloride	9/3/2015	9/12/2015	9	28	OK
TW4-33	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-33	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-33	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-33	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-33	Nitrate/Nitrite (as N)	9/3/2015	9/22/2015	19	28	OK
TW4-34	Chloride	9/3/2015	9/13/2015	10	28	OK
TW4-34	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-34	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-34	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-34	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-34	Nitrate/Nitrite (as N)	9/3/2015	9/10/2015	7	28	OK
TW4-35	Chloride	9/3/2015	9/13/2015	10	28	OK
TW4-35	Carbon tetrachloride	9/3/2015	9/6/2015	3	14	OK
TW4-35	Chloroform	9/3/2015	9/6/2015	3	14	OK
TW4-35	Chloromethane	9/3/2015	9/6/2015	3	14	OK
TW4-35	Methylene chloride	9/3/2015	9/6/2015	3	14	OK
TW4-35	Nitrate/Nitrite (as N)	9/3/2015	9/10/2015	7	28	OK
TW4-36	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-36	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-36	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-36	Chloromethane	9/2/2015	9/6/2015	4	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-36	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-36	Nitrate/Nitrite (as N)	9/2/2015	9/22/2015	20	28	OK
TW4-37	Chloride	8/31/2015	9/13/2015	13	28	OK
TW4-37	Carbon tetrachloride	8/31/2015	9/6/2015	6	14	OK
TW4-37	Chloroform	8/31/2015	9/8/2015	8	14	OK
TW4-37	Chloromethane	8/31/2015	9/6/2015	6	14	OK
TW4-37	Methylene chloride	8/31/2015	9/6/2015	6	14	OK
TW4-37	Nitrate/Nitrite (as N)	8/31/2015	9/15/2015	15	28	OK
TW4-60	Chloride	9/10/2015	9/16/2015	6	28	OK
TW4-60	Carbon tetrachloride	9/10/2015	9/11/2015	1	14	OK
TW4-60	Chloroform	9/10/2015	9/11/2015	1	14	OK
TW4-60	Chloromethane	9/10/2015	9/11/2015	1	14	OK
TW4-60	Methylene chloride	9/10/2015	9/11/2015	1	14	OK
TW4-60	Nitrate/Nitrite (as N)	9/10/2015	9/15/2015	5	28	OK
TW4-65	Chloride	9/2/2015	9/12/2015	10	28	OK
TW4-65	Carbon tetrachloride	9/2/2015	9/6/2015	4	14	OK
TW4-65	Chloroform	9/2/2015	9/6/2015	4	14	OK
TW4-65	Chloromethane	9/2/2015	9/6/2015	4	14	OK
TW4-65	Methylene chloride	9/2/2015	9/6/2015	4	14	OK
TW4-65	Nitrate/Nitrite (as N)	9/2/2015	9/9/2015	7	28	OK
TW4-70	Chloride	9/3/2015	9/13/2015	10	28	OK
TW4-70	Carbon tetrachloride	9/3/2015	9/8/2015	5	14	OK
TW4-70	Chloroform	9/3/2015	9/8/2015	5	14	OK
TW4-70	Chloromethane	9/3/2015	9/8/2015	5	14	OK
TW4-70	Methylene chloride	9/3/2015	9/8/2015	5	14	OK
TW4-70	Nitrate/Nitrite (as N)	9/3/2015	9/16/2015	13	28	OK

Table I-3 Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1509123	MW-04, MW-26, TW4-01, TW4-02, TW4-03, TW4-03R, TW4-04, TW4-05, TW4-09, TW4-11, TW4-12, TW4-13, TW4-14, TW4-15, TW4-16, TW4-18, TW4-19, TW4-20, TW4-21, TW4-22, TW4-23, TW4-24, TW4-25, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-32, TW4-33, TW4-34, TW4-35, TW4-36, TW4-37, TW4-65, TW4-70	1.6 °C
1509241	MW-32, TW4-06, TW4-07, TW4-07R, TW4-08, TW4-10, TW4-60, Trip Blank	2.4 °C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
Carbon Tetrachloride	SW8260B or SW8260C	SW8260C
Chloride	A4500-C1 B or A4500-C1 E or E300.0	E300.0
Chloroform	SW8260B or SW8260C	SW8260C
Chloromethane	SW8260B or SW8260C	SW8260C
Methylene chloride	SW8260B or SW8260C	SW8260C
Nitrogen	E353.1 or E353.2	E353.2

All parameters were analyzed using the reporting method specified in the QAP

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Chloride	10	mg/L		10	1	OK
MW-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-04	Chloroform	50	ug/L		50	1	OK
MW-04	Chloromethane	1	ug/L		1	1	OK
MW-04	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloroform	50	ug/L		50	1	OK
MW-26	Chloromethane	1	ug/L		1	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-32	Chloride	10	mg/L		10	1	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-32	Chloroform	1	ug/L	U	1	1	OK
MW-32	Chloromethane	1	ug/L	U	1	1	OK
MW-32	Methylene chloride	1	ug/L	U	1	1	OK
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-01	Chloride	10	mg/L		10	1	OK
TW4-01	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-01	Chloroform	50	ug/L		50	1	OK
TW4-01	Chloromethane	1	ug/L	U	1	1	OK
TW4-01	Methylene chloride	1	ug/L	U	1	1	OK
TW4-01	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-02	Chloride	10	mg/L		10	1	OK
TW4-02	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-02	Chloroform	50	ug/L		50	1	OK
TW4-02	Chloromethane	1	ug/L		1	1	OK
TW4-02	Methylene chloride	1	ug/L	U	1	1	OK
TW4-02	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-03	Chloride	10	mg/L		10	1	OK
TW4-03	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-03	Chloroform	1	ug/L	U	1	1	OK
TW4-03	Chloromethane	1	ug/L	U	1	1	OK
TW4-03	Methylene chloride	1	ug/L	U	1	1	OK
TW4-03	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-03R	Chloride	1	mg/L	U	1	1	OK
TW4-03R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-03R	Chloroform	1	ug/L	U	1	1	OK
TW4-03R	Chloromethane	1	ug/L	U	1	1	OK
TW4-03R	Methylene chloride	1	ug/L	U	1	1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-03R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-04	Chloride	10	mg/L		10	1	OK
TW4-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-04	Chloroform	50	ug/L		50	1	OK
TW4-04	Chloromethane	1	ug/L		1	1	OK
TW4-04	Methylene chloride	1	ug/L	U	1	1	OK
TW4-04	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-05	Chloride	10	mg/L		10	1	OK
TW4-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-05	Chloroform	1	ug/L		1	1	OK
TW4-05	Chloromethane	1	ug/L	U	1	1	OK
TW4-05	Methylene chloride	1	ug/L	U	1	1	OK
TW4-05	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-06	Chloride	10	mg/L		10	1	OK
TW4-06	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06	Chloroform	50	ug/L		50	1	OK
TW4-06	Chloromethane	1	ug/L	U	1	1	OK
TW4-06	Methylene chloride	1	ug/L	U	1	1	OK
TW4-06	Nitrate/Nitrite (as N)	0.5	mg/L		5	0.1	OK
TW4-07	Chloride	10	mg/L		10	1	OK
TW4-07	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-07	Chloroform	50	ug/L		50	1	OK
TW4-07	Chloromethane	1	ug/L	U	1	1	OK
TW4-07	Methylene chloride	1	ug/L	U	1	1	OK
TW4-07	Nitrate/Nitrite (as N)	0.5	mg/L		5	0.1	OK
TW4-07R	Chloride	1	mg/L	U	1	1	OK
TW4-07R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-07R	Chloroform	1	ug/L	U	1	1	OK
TW4-07R	Chloromethane	1	ug/L	U	1	1	OK
TW4-07R	Methylene chloride	1	ug/L		1	1	OK
TW4-07R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-08	Chloride	10	mg/L		10	1	OK
TW4-08	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-08	Chloroform	50	ug/L		50	1	OK
TW4-08	Chloromethane	1	ug/L	U	1	1	OK
TW4-08	Methylene chloride	1	ug/L	U	1	1	OK
TW4-08	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
TW4-09	Chloride	10	mg/L		10	1	OK
TW4-09	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-09	Chloroform	1	ug/L		1	1	OK
TW4-09	Chloromethane	1	ug/L	U	1	1	OK
TW4-09	Methylene chloride	1	ug/L	U	1	1	OK
TW4-09	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-10	Chloride	10	mg/L		10	1	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-10	Chloroform	50	ug/L		50	1	OK
TW4-10	Chloromethane	1	ug/L	U	1	1	OK
TW4-10	Methylene chloride	1	ug/L	U	1	1	OK
TW4-10	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-11	Chloride	10	mg/L		10	1	OK
TW4-11	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-11	Chloroform	50	ug/L		50	1	OK
TW4-11	Chloromethane	1	ug/L		1	1	OK
TW4-11	Methylene chloride	1	ug/L	U	1	1	OK
TW4-11	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-12	Chloride	10	mg/L		10	1	OK
TW4-12	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-12	Chloroform	1	ug/L	U	1	1	OK
TW4-12	Chloromethane	1	ug/L	U	1	1	OK
TW4-12	Methylene chloride	1	ug/L	U	1	1	OK
TW4-12	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-13	Chloride	10	mg/L		10	1	OK
TW4-13	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-13	Chloroform	1	ug/L	U	1	1	OK
TW4-13	Chloromethane	1	ug/L	U	1	1	OK
TW4-13	Methylene chloride	1	ug/L	U	1	1	OK
TW4-13	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-14	Chloride	10	mg/L		10	1	OK
TW4-14	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-14	Chloroform	1	ug/L	U	1	1	OK
TW4-14	Chloromethane	1	ug/L	U	1	1	OK
TW4-14	Methylene chloride	1	ug/L	U	1	1	OK
TW4-14	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-16	Chloride	10	mg/L		10	1	OK
TW4-16	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-16	Chloroform	1	ug/L		1	1	OK
TW4-16	Chloromethane	1	ug/L	U	1	1	OK
TW4-16	Methylene chloride	1	ug/L	U	1	1	OK
TW4-16	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-18	Chloride	10	mg/L		10	1	OK
TW4-18	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-18	Chloroform	1	ug/L		1	1	OK
TW4-18	Chloromethane	1	ug/L	U	1	1	OK
TW4-18	Methylene chloride	1	ug/L	U	1	1	OK
TW4-18	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
TW4-19	Chloride	100	mg/L		100	1	OK
TW4-19	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-19	Chloroform	100	ug/L		100	1	OK
TW4-19	Chloromethane	1	ug/L		1	1	OK
TW4-19	Methylene chloride	1	ug/L	U	1	1	OK
TW4-19	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-20	Chloride	100	mg/L		100	1	OK
TW4-20	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-20	Chloroform	100	ug/L		100	1	OK
TW4-20	Chloromethane	1	ug/L		1	1	OK
TW4-20	Methylene chloride	1	ug/L	U	1	1	OK
TW4-20	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-21	Chloride	100	mg/L		100	1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-21	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-21	Chloroform	10	ug/L		10	1	OK
TW4-21	Chloromethane	1	ug/L	U	1	1	OK
TW4-21	Methylene chloride	1	ug/L	U	1	1	OK
TW4-21	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-22	Chloride	100	mg/L		100	1	OK
TW4-22	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-22	Chloroform	50	ug/L		50	1	OK
TW4-22	Chloromethane	1	ug/L		1	1	OK
TW4-22	Methylene chloride	1	ug/L	U	1	1	OK
TW4-22	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
TW4-23	Chloride	10	mg/L		10	1	OK
TW4-23	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-23	Chloroform	1	ug/L	U	1	1	OK
TW4-23	Chloromethane	1	ug/L	U	1	1	OK
TW4-23	Methylene chloride	1	ug/L	U	1	1	OK
TW4-23	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-24	Chloride	100	mg/L		100	1	OK
TW4-24	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-24	Chloroform	1	ug/L		1	1	OK
TW4-24	Chloromethane	1	ug/L	U	1	1	OK
TW4-24	Methylene chloride	1	ug/L	U	1	1	OK
TW4-24	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
TW4-25	Chloride	10	mg/L		10	1	OK
TW4-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-25	Chloroform	1	ug/L	U	1	1	OK
TW4-25	Chloromethane	1	ug/L	U	1	1	OK
TW4-25	Methylene chloride	1	ug/L	U	1	1	OK
TW4-25	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
TW4-26	Chloride	10	mg/L		10	1	OK
TW4-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-26	Chloroform	1	ug/L		1	1	OK
TW4-26	Chloromethane	1	ug/L	U	1	1	OK
TW4-26	Methylene chloride	1	ug/L	U	1	1	OK
TW4-26	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-27	Chloride	10	mg/L		10	1	OK
TW4-27	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-27	Chloroform	1	ug/L		1	1	OK
TW4-27	Chloromethane	1	ug/L	U	1	1	OK
TW4-27	Methylene chloride	1	ug/L	U	1	1	OK
TW4-27	Nitrate/Nitrite (as N)	10	mg/L		100	0.1	OK
TW4-28	Chloride	10	mg/L		10	1	OK
TW4-28	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-28	Chloroform	1	ug/L	U	1	1	OK
TW4-28	Chloromethane	1	ug/L	U	1	1	OK
TW4-28	Methylene chloride	1	ug/L	U	1	1	OK
TW4-28	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-29	Chloride	10	mg/L		10	1	OK
TW4-29	Carbon tetrachloride	1	ug/L	U	1	1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-29	Chloroform	10	ug/L		10	1	OK
TW4-29	Chloromethane	1	ug/L	U	1	1	OK
TW4-29	Methylene chloride	1	ug/L	U	1	1	OK
TW4-29	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-30	Chloride	10	mg/L		10	1	OK
TW4-30	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-30	Chloroform	1	ug/L		1	1	OK
TW4-30	Chloromethane	1	ug/L	U	1	1	OK
TW4-30	Methylene chloride	1	ug/L	U	1	1	OK
TW4-30	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-31	Chloride	10	mg/L		10	1	OK
TW4-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-31	Chloroform	1	ug/L	U	1	1	OK
TW4-31	Chloromethane	1	ug/L	U	1	1	OK
TW4-31	Methylene chloride	1	ug/L	U	1	1	OK
TW4-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-32	Chloride	10	mg/L		10	1	OK
TW4-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-32	Chloroform	1	ug/L	U	1	1	OK
TW4-32	Chloromethane	1	ug/L	U	1	1	OK
TW4-32	Methylene chloride	1	ug/L	U	1	1	OK
TW4-32	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-33	Chloride	10	mg/L		10	1	OK
TW4-33	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-33	Chloroform	1	ug/L		1	1	OK
TW4-33	Chloromethane	1	ug/L	U	1	1	OK
TW4-33	Methylene chloride	1	ug/L	U	1	1	OK
TW4-33	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
TW4-34	Chloride	10	mg/L		10	1	OK
TW4-34	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-34	Chloroform	1	ug/L	U	1	1	OK
TW4-34	Chloromethane	1	ug/L	U	1	1	OK
TW4-34	Methylene chloride	1	ug/L	U	1	1	OK
TW4-34	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
TW4-35	Chloride	10	mg/L		10	1	OK
TW4-35	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-35	Chloroform	1	ug/L	U	1	1	OK
TW4-35	Chloromethane	1	ug/L	U	1	1	OK
TW4-35	Methylene chloride	1	ug/L	U	1	1	OK
TW4-35	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
TW4-36	Chloride	10	mg/L		10	1	OK
TW4-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-36	Chloroform	1	ug/L	U	1	1	OK
TW4-36	Chloromethane	1	ug/L	U	1	1	OK
TW4-36	Methylene chloride	1	ug/L	U	1	1	OK
TW4-36	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-37	Chloride	100	mg/L		100	1	OK
TW4-37	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-37	Chloroform	100	ug/L		100	1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-37	Chloromethane	1	ug/L		1	1	OK
TW4-37	Methylene chloride	1	ug/L		1	1	OK
TW4-37	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
TW4-60	Chloride	1	mg/L	U	1	1	OK
TW4-60	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-60	Chloroform	1	ug/L	U	1	1	OK
TW4-60	Chloromethane	1	ug/L	U	1	1	OK
TW4-60	Methylene chloride	1	ug/L	U	1	1	OK
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-65	Chloride	10	mg/L		10	1	OK
TW4-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-65	Chloroform	1	ug/L	U	1	1	OK
TW4-65	Chloromethane	1	ug/L	U	1	1	OK
TW4-65	Methylene chloride	1	ug/L	U	1	1	OK
TW4-65	Nitrate/Nitrite (as N)	10	mg/L		100	0.1	OK
TW4-70	Chloride	10	mg/L		10	1	OK
TW4-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-70	Chloroform	1	ug/L	U	1	1	OK
TW4-70	Chloromethane	1	ug/L	U	1	1	OK
TW4-70	Methylene chloride	1	ug/L	U	1	1	OK
TW4-70	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK

I-6 Trip Blank Evaluation

Lab Report	Constituent	Result	
1509123	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1509241	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L

I-7 QA/QC Evaluation for Sample Duplicates

Constituent	TW4-12	TW4-65	%RPD
Chloride (mg/L)	60.2	58.5	2.9
Nitrate + Nitrite (as N)	16.4	19.6	17.8
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-23	TW4-70	%RPD
Chloride (mg/L)	54.1	55.1	1.8
Nitrate + Nitrite (as N)	ND	ND	NC
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

RPD = Relative Percent Difference

ND = The analyte was not detected

I-8 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
1509241	1509241-002BMS	TW4-07	Nitrate	97.7	62.5	90 - 110	20.20
1509123	1509123-036BMS	TW4-70	Nitrate	0	0	90-110	0
1509123	1509123-005BMS	TW4-32	Nitrate	66.8	68.3	90-110	1.27
1509123	1509381-003CMS	N/A	Nitrate	82.3	84.4	90-110	2.08

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

Laboratory Control Sample

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

Surrogate % Recovery

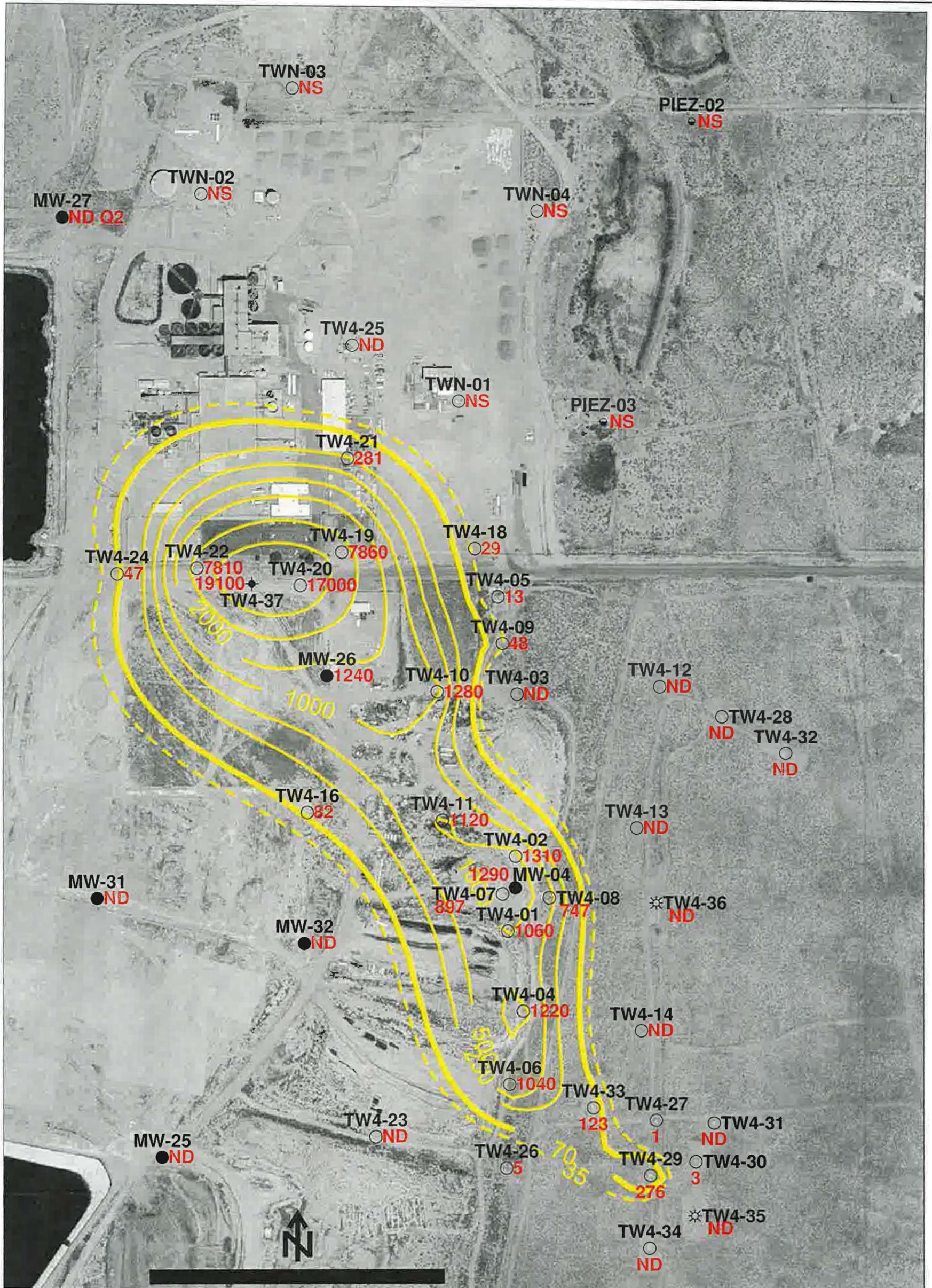
All Surrogate recoveries were within acceptance limits for the quarter.

I-9 Rinsate Evaluation

All rinsate blanks results were nondetect for the quarter.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



EXPLANATION

NS = not sampled; ND = not detected;
 ND Q2 = not detected in second quarter

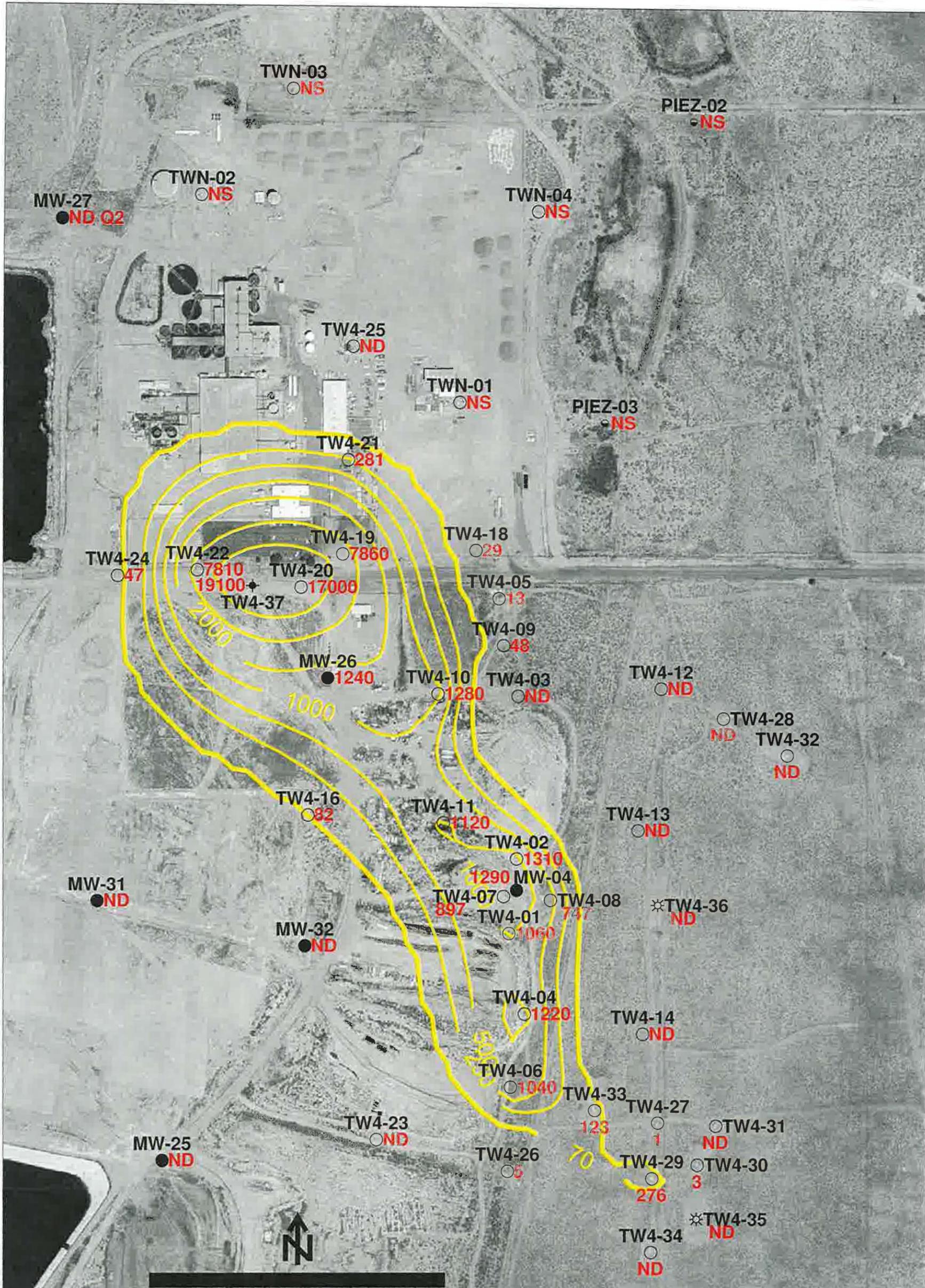
- 70 kriged chloroform isocon and label
- TW4-37 temporary perched pumping well installed March, 2015 showing concentration in µg/L
- MW-32 perched monitoring well showing concentration (µg/L)
- TW4-7 temporary perched monitoring well showing concentration (µg/L)
- PIEZ-2 perched piezometer showing concentration (µg/L)
- ✱ TW4-35 temporary perched monitoring well installed May, 2014 showing concentration (µg/L)

1000 feet

PIEZ-04
 ● NS

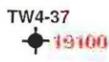
NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells;
 TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

 HYDRO GEO CHEM, INC.	KRIGED 3rd QUARTER, 2015 CHLOROFORM (µg/L) WHITE MESA SITE (detail map)		
	APPROVED	DATE	REFERENCE H:/718000/ nov15/chloroform/Uchl0915det.srf



EXPLANATION

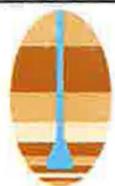
NS = not sampled; ND = not detected;
 ND Q2 = not detected in second quarter

-  70 kriged chloroform isocon and label
-  TW4-37 temporary perched pumping well installed March, 2015 showing concentration in µg/L
-  MW-32 perched monitoring well showing concentration (µg/L)
-  TW4-7 temporary perched monitoring well showing concentration (µg/L)
-  PIEZ-2 perched piezometer showing concentration (µg/L)
-  TW4-35 temporary perched monitoring well installed May, 2014 showing concentration (µg/L)

1000 feet

PIEZ-04
 NS

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.

**3rd QUARTER, 2015 CHLOROFORM
 GREATER THAN OR EQUAL TO 70 µg/L GRID
 WHITE MESA SITE**

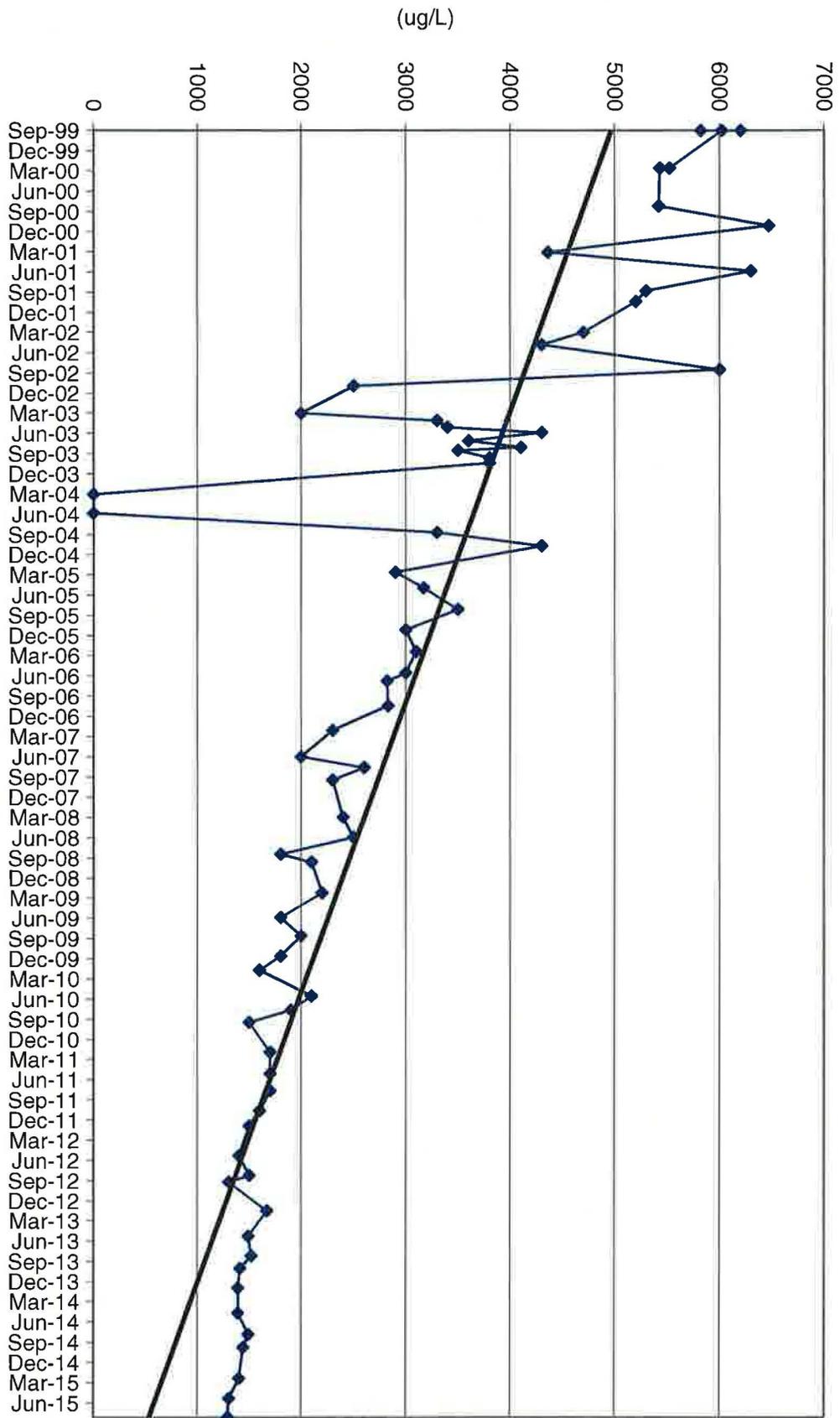
APPROVED	DATE	REFERENCE	H:/718000/ nov15/chloroform/Uchl0915ge70.srf	FIGURE
				J-3

Tab K

Analyte Concentration Data and Chloroform Concentration Trend Graphs Over Time

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Sep-99	6200					
28-Sep-99	5820					
28-Sep-99	6020					
15-Mar-00	5520					
15-Mar-00	5430					
2-Sep-00	5420				9.63	
30-Nov-00	6470				9.37	
29-Mar-01	4360				8.77	
22-Jun-01	6300				9.02	
20-Sep-01	5300				9.45	
8-Nov-01	5200				8	
26-Mar-02	4700				8.19	
22-May-02	4300				8.21	
12-Sep-02	6000				8.45	
24-Nov-02	2500				8.1	
28-Mar-03	2000				8.3	
30-Apr-03	3300				NA	
30-May-03	3400				8.2	
23-Jun-03	4300				8.2	
30-Jul-03	3600				8.1	
29-Aug-03	4100				8.4	
12-Sep-03	3500				8.5	
15-Oct-03	3800				8.1	
8-Nov-03	3800				8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	3300				6.71	
17-Nov-04	4300				7.5	
16-Mar-05	2900				6.3	
25-May-05	3170	NA	NA	NA	7.1	NA
31-Aug-05	3500	<10	<10	<10	7.0	NA
1-Dec-05	3000	<50	<50	<50	7.0	NA
9-Mar-06	3100	<50	<50	50	6	49
14-Jun-06	3000	<50	<50	50	6	49
20-Jul-06	2820	<50	<50	<50	1.2	48
9-Nov-06	2830	2.1	1.4	<1	6.4	50
28-Feb-07	2300	1.6	<1	<1	6.3	47
27-Jun-07	2000	1.8	<1	<1	7	45
15-Aug-07	2600	1.9	<1	<1	6.2	47
10-Oct-07	2300	1.7	<1	<1	6.2	45
26-Mar-08	2400	1.7	<1	<1	5.8	42
25-Jun-08	2500	1.6	<1	<1	6.09	42
10-Sep-08	1800	1.8	<1	<1	6.36	35
15-Oct-08	2100	1.7	<1	<1	5.86	45
4-Mar-09	2200	1.5	<1	<1	5.7	37
23-Jun-09	1800	1.3	<1	<1	5.2	34
14-Sep-09	2000	1.4	<1	<1	5.3	43
14-Dec-09	1800	1.6	ND	ND	5.8	44

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Feb-10	1600	1.2	ND	ND	4	45
14-Jun-10	2100	1.2	ND	ND	5.1	41
16-Aug-10	1900	1.5	ND	ND	4.8	38
11-Oct-10	1500	1.4	ND	ND	4.9	41
23-Feb-11	1700	1.5	ND	ND	4.6	40
1-Jun-11	1700	1.4	ND	ND	4.9	35
17-Aug-11	1700	1.1	ND	ND	4.9	41
16-Nov-11	1600	1.3	ND	ND	5.1	40
23-Jan-12	1500	1	ND	ND	4.8	41
6-Jun-12	1400	1.2	ND	ND	4.9	39
4-Sep-12	1500	1.5	ND	ND	5	41
4-Oct-12	1300	1	ND	ND	4.8	42
11-Feb-13	1670	1.49	ND	ND	4.78	37.8
5-Jun-13	1490	1.31	ND	ND	4.22	44
3-Sep-13	1520	1.13	ND	ND	4.89	41.4
29-Oct-13	1410	5.58	ND	ND	5.25	40.1
27-Jan-14	1390	4.15	ND	ND	4.7	38.5
19-May-14	1390	5.21	ND	ND	4.08	39.9
24-Aug-14	1490	ND	7.6	ND	3.7	41
21-Oct-14	1440	ND	ND	ND	5.07	41.5
9-Mar-15	1400	1.26	ND	ND	5.75	40.7
8-Jun-15	1300	ND	ND	ND	2.53	43.1
31-Aug-15	1290	ND	ND	ND	4.79	44.3

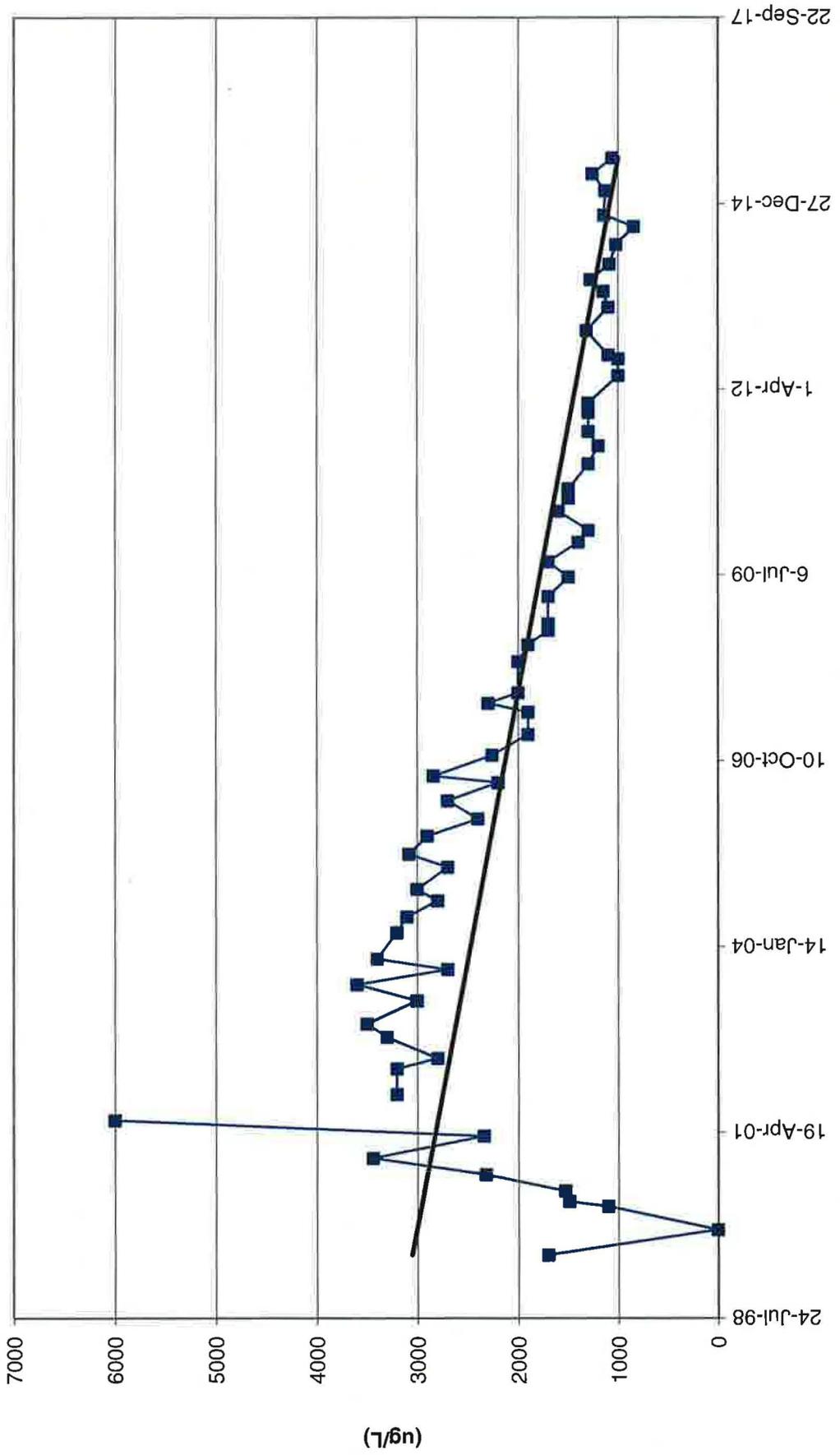


MW4-Chloroform Values

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	1700				7.2	
10-Nov-99	5.8					
15-Mar-00	1100					
10-Apr-00	1490					
6-Jun-00	1530					
2-Sep-00	2320				5.58	
30-Nov-00	3440				7.79	
29-Mar-01	2340				7.15	
22-Jun-01	6000				8.81	
20-Sep-01					12.8	
8-Nov-01	3200				12.4	
26-Mar-02	3200				13.1	
22-May-02	2800				12.7	
12-Sep-02	3300				12.8	
24-Nov-02	3500				13.6	
28-Mar-03	3000				12.4	
23-Jun-03	3600				12.5	
12-Sep-03	2700				12.5	
8-Nov-03	3400				11.8	
29-Mar-04	3200				11	
22-Jun-04	3100				8.78	
17-Sep-04	2800				10.8	
17-Nov-04	3000				11.1	
16-Mar-05	2700				9.1	
25-May-05	3080	NA	NA	NA	10.6	NA
31-Aug-05	2900	<10	<10	<10	9.8	NA
1-Dec-05	2400	<50	<50	<50	9.7	NA
9-Mar-06	2700	<50	<50	<50	9.4	49
14-Jun-06	2200	<50	<50	<50	9.8	48
20-Jul-06	2840	<50	<50	<50	9.7	51
8-Nov-06	2260	1.4	<1	<1	9.4	47
28-Feb-07	1900	1.2	<1	<1	8.9	47
27-Jun-07	1900	1.4	<1	<1	9	45
15-Aug-07	2300	1.3	<1	<1	8.4	43
10-Oct-07	2000	1.3	<1	<1	7.8	43
26-Mar-08	2000	1.3	<1	<1	7.6	39
25-Jun-08	1900	1.1	<1	<1	8.68	39
10-Sep-08	1700	1.3	<1	<1	8.15	35
15-Oct-08	1700	1.3	<1	<1	9.3	41
11-Mar-09	1700	1.1	<1	<1	7.5	37
24-Jun-09	1500	1	<1	<1	6.9	37
15-Sep-09	1700	<1	<1	<1	7.3	36

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Dec-09	1400	<1	<1	<1	6.8	41
3-Mar-10	1300	<1	<1	<1	7.1	35
15-Jun-10	1600	1.2	<1	<1	6.8	40
24-Aug-10	1500	<1	<1	<1	6.8	35
14-Oct-10	1500	<1	<1	<1	6.6	40
24-Feb-11	1300	ND	ND	ND	6.6	41
1-Jun-11	1200	ND	ND	ND	7	35
18-Aug-11	1300	ND	ND	ND	6.8	36
29-Nov-11	1300	ND	ND	ND	6.6	37
19-Jan-12	1300	ND	ND	ND	6.8	38
14-Jun-12	1000	ND	ND	ND	7.1	42
13-Sep-12	1000	ND	ND	ND	5	39
4-Oct-12	1100	ND	ND	ND	6.5	40
13-Feb-13	1320	3.66	ND	ND	6.99	37.6
19-Jun-13	1100	ND	ND	ND	6.87	39.1
12-Sep-13	1150	ND	ND	ND	7.12	37.6
14-Nov-13	1280	ND	ND	ND	7.08	36.5
5-Feb-14	1090	5.47	ND	ND	7.74	38.9
23-May-14	1020	4.77	ND	ND	6.93	37.4
27-Aug-14	845	ND	1.4	ND	4.8	38
29-Oct-14	1140	ND	ND	ND	6.31	38.7
9-Mar-15	1130	ND	ND	ND	7.06	38.3
8-Jun-15	1260	ND	ND	ND	6.07	40.3
31-Aug-15	1060	ND	ND	ND	6.28	45.9

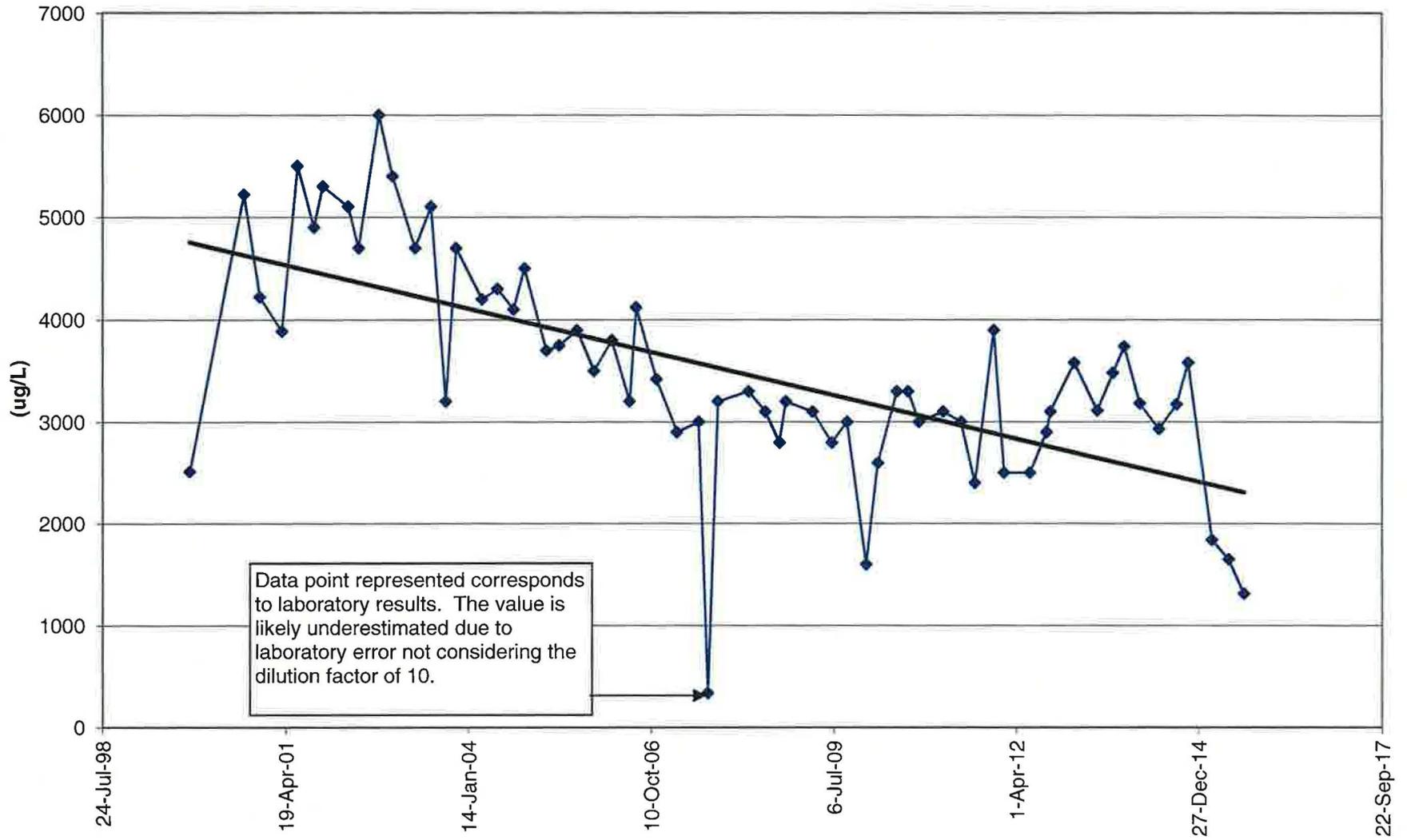
TW4-1 Chloroform Values



TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-99	2510					
2-Sep-00	5220					
28-Nov-00	4220				10.7	
29-Mar-01	3890				10.2	
22-Jun-01	5500				9.67	
20-Sep-01	4900				11.4	
8-Nov-01	5300				10.1	
26-Mar-02	5100				9.98	
23-May-02	4700				9.78	
12-Sep-02	6000				9.44	
24-Nov-02	5400				10.4	
28-Mar-03	4700				9.5	
23-Jun-03	5100				9.6	
12-Sep-03	3200				8.6	
8-Nov-03	4700				9.7	
29-Mar-04	4200				9.14	
22-Jun-04	4300				8.22	
17-Sep-04	4100				8.4	
17-Nov-04	4500				8.6	
16-Mar-05	3700				7.7	
25-May-05	3750				8.6	
31-Aug-05	3900	<10	<10	<10	8	NA
1-Dec-05	3500	<50	<50	<50	7.8	NA
9-Mar-06	3800	<50	<50	<50	7.5	56
14-Jun-06	3200	<50	<50	<50	7.1	56
20-Jul-06	4120	<50	<50	<50	7.4	54
8-Nov-06	3420	2.3	<1	<1	7.6	55
28-Feb-07	2900	1.8	<1	<1	7.3	54
27-Jun-07	3000	2.5	<1	<1	7.8	50
15-Aug-07	340	2.2	<1	<1	7.3	49
10-Oct-07	3200	2.1	<1	<1	6.9	51
26-Mar-08	3300	2.3	<1	<1	6.9	48
25-Jun-08	3100	2.2	<1	<1	7.44	46
10-Sep-08	2800	2.4	<1	<1	7.1	42
15-Oct-08	3200	2.4	<2	<2	7.99	47
11-Mar-09	3100	2.2	<1	<1	6.5	46
24-Jun-09	2800	2	<1	<1	6.4	44
15-Sep-09	3000	2	<1	<1	6.6	43
29-Dec-09	1600	2	<1	<1	6.4	46
3-Mar-10	2600	2	<1	<1	6.8	42
15-Jun-10	3300	2.6	<1	<1	6.7	43
16-Aug-10	3300	2.5	<1	<1	6.6	43
14-Oct-10	3000	2.1	<1	<1	6.5	41

TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Feb-11	3100	2.4	ND	ND	7	46
2-Jun-11	3000	2.2	ND	ND	6.8	42
17-Aug-11	2400	1.6	ND	ND	6	48
29-Nov-11	3900	2.8	ND	ND	7	49
24-Jan-12	2500	2	ND	ND	7.1	49
14-Jun-12	2500	2.1	ND	ND	7.7	52
13-Sep-12	2900	1.8	ND	ND	4	76
4-Oct-12	3100	2	ND	ND	7.6	49
13-Feb-13	3580	5.17	ND	ND	8.1	46
19-Jun-13	3110	2.65	ND	ND	7.51	46.9
12-Sep-13	3480	2.41	ND	ND	9.3	44.9
14-Nov-13	3740	3.15	ND	ND	8.39	43.9
6-Feb-14	3180	7.1	ND	ND	7.87	45.9
23-May-14	2930	6.05	ND	ND	9.11	45.4
27-Aug-14	3170	1.4	3.6	ND	6.2	45
30-Oct-14	3580	2.6	ND	ND	8.45	45.5
9-Mar-15	1840	1.44	ND	ND	5.32	44.9
8-Jun-15	1650	ND	ND	ND	4.3	48.1
31-Aug-15	1310	ND	ND	ND	3.76	50.0

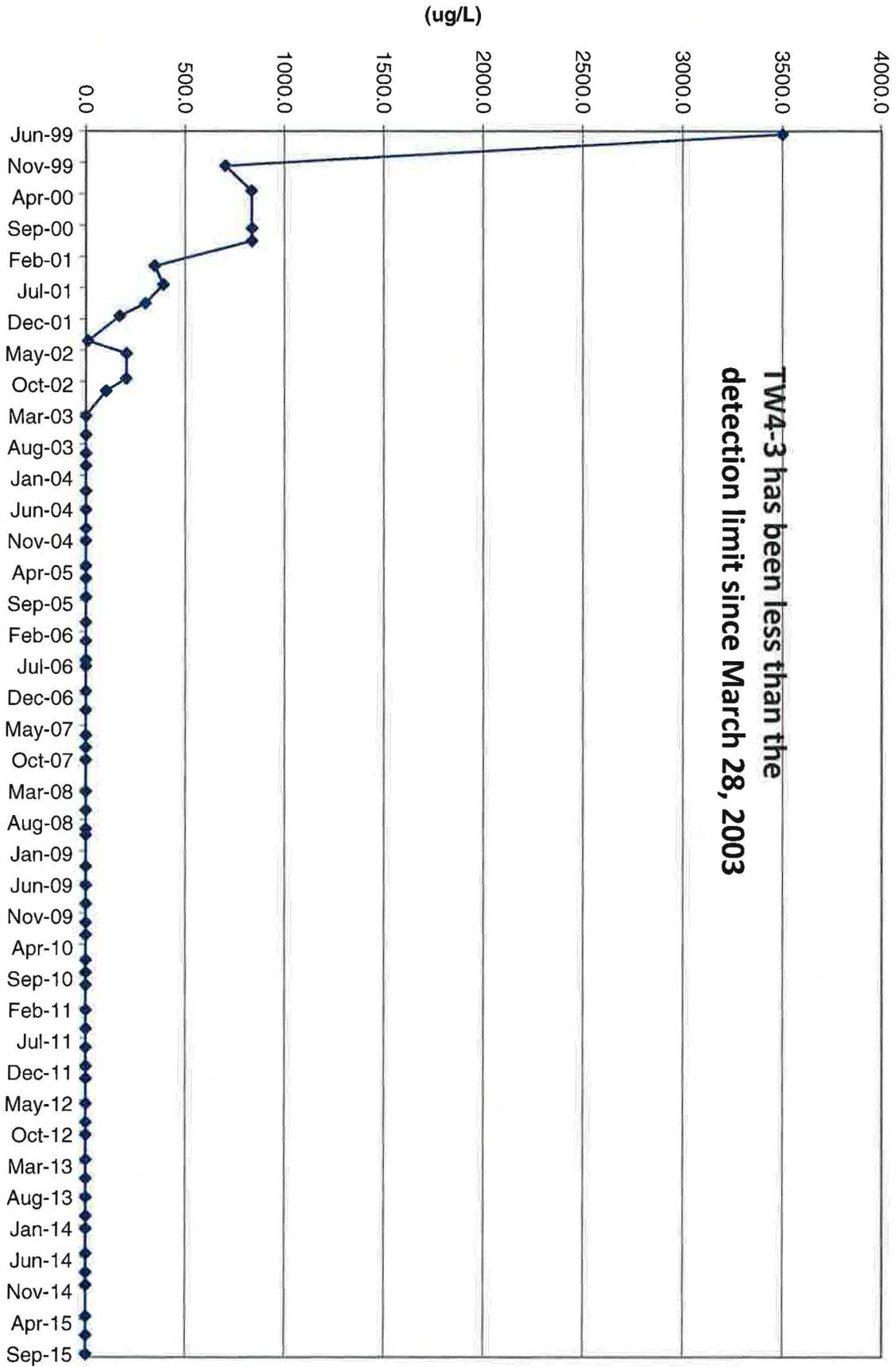
TW4-2 Chloroform Values



TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	3500				7.6	
29-Nov-99	702					
15-Mar-00	834					
2-Sep-00	836				1.56	
29-Nov-00	836				1.97	
27-Mar-01	347				1.85	
21-Jun-01	390				2.61	
20-Sep-01	300				3.06	
7-Nov-01	170				3.6	
26-Mar-02	11				3.87	
21-May-02	204				4.34	
12-Sep-02	203				4.32	
24-Nov-02	102				4.9	
28-Mar-03	0				4.6	
23-Jun-03	0				4.8	
12-Sep-03	0				4.3	
8-Nov-03	0				4.8	
29-Mar-04	0				4.48	
22-Jun-04	0				3.68	
17-Sep-04	0				3.88	
17-Nov-04	0				4.1	
16-Mar-05	0				3.5	
25-May-05	<1	NA	NA	NA	3.7	NA
31-Aug-05	<1	<1	6.4	<1	3.5	NA
1-Dec-05	<1	<1	2.3	<1	3.3	NA
9-Mar-06	<1	<1	2.2	<1	3.3	26
14-Jun-06	<1	<1	<1	<1	3.2	26
20-Jul-06	<1	<1	1.6	<1	2.9	26
8-Nov-06	<1	<1	<1	<1	1.5	23
28-Feb-07	<1	<1	<1	<1	3.1	22
27-Jun-07	<1	<1	<1	<1	3.3	23
15-Aug-07	<1	<1	<1	<1	3.1	24
10-Oct-07	<1	<1	<1	<1	2.8	27
26-Mar-08	<1	<1	<1	<1	2.8	21
25-Jun-08	<1	<1	<1	<1	2.85	19
10-Sep-08	<1	<1	<1	<1	2.66	19
15-Oct-08	<1	<1	<1	<1	2.63	22
4-Mar-09	<1	<1	<1	<1	2.5	21
24-Jun-09	<1	<1	<1	<1	2.9	20
15-Sep-09	<1	<1	<1	<1	2.8	21
16-Dec-09	<1	<1	<1	<1	2.5	22
23-Feb-10	<1	<1	<1	<1	2.8	23
8-Jun-10	<1	<1	<1	<1	3	24

TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Aug-10	<1	<1	<1	<1	3.1	22
5-Oct-10	<1	<1	<1	<1	3.3	26
15-Feb-11	ND	ND	ND	ND	3.5	23
25-May-11	ND	ND	ND	ND	3.7	23
16-Aug-11	ND	ND	ND	ND	4	23
15-Nov-11	ND	ND	ND	ND	4.4	23
17-Jan-12	ND	ND	ND	ND	4.3	21
31-May-12	ND	ND	ND	ND	4.4	24
29-Aug-12	ND	ND	ND	ND	4.9	25
3-Oct-12	ND	ND	ND	ND	4.8	25
7-Feb-13	ND	ND	ND	ND	5.05	23.7
29-May-13	ND	ND	ND	ND	5.83	23.8
29-Aug-13	ND	ND	ND	ND	6.26	24.0
6-Nov-13	ND	ND	ND	ND	5.89	24.1
22-Jan-14	ND	ND	ND	ND	6.66	24.9
19-May-14	ND	ND	ND	ND	6.01	24.4
13-Aug-14	ND	ND	ND	ND	5.3	26
23-Oct-14	ND	ND	ND	ND	6.07	26.7
11-Mar-15	ND	ND	ND	ND	6.64	26.2
10-Jun-15	ND	ND	ND	ND	5.71	27.5
2-Sep-15	ND	ND	ND	ND	3.88	27.4

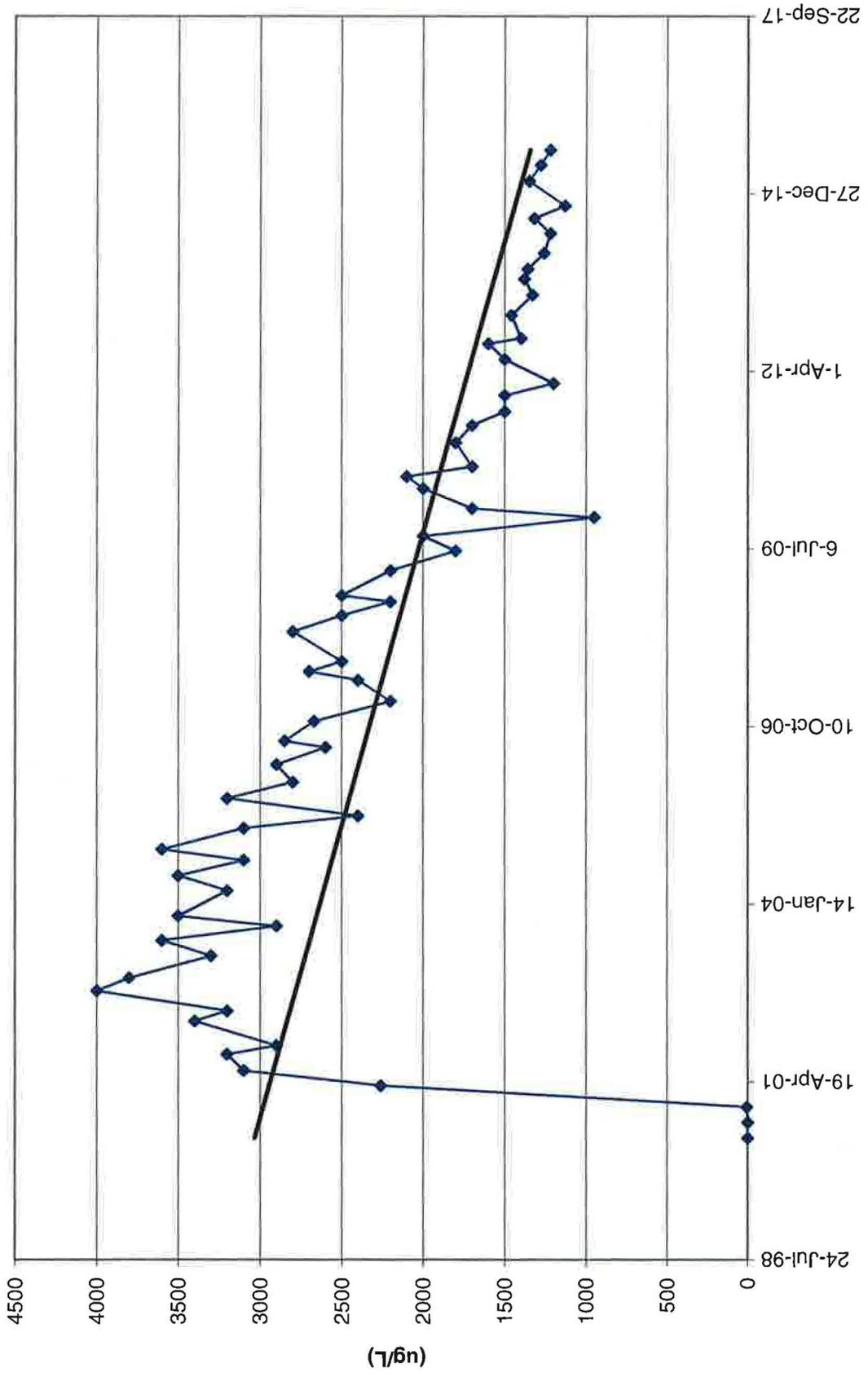
TW4-3 Chloroform Values



TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	3.9					
28-Mar-01	2260				1.02	
20-Jun-01	3100				14.5	
20-Sep-01	3200				14	
8-Nov-01	2900				14.8	
26-Mar-02	3400				15	
22-May-02	3200				13.2	
12-Sep-02	4000				13.4	
24-Nov-02	3800				12.6	
28-Mar-03	3300				13.4	
23-Jun-03	3600				12.8	
12-Sep-03	2900				12.3	
8-Nov-03	3500				12.3	
29-Mar-04	3200				12.2	
22-Jun-04	3500				12.1	
17-Sep-04	3100				11.1	
17-Nov-04	3600				10.8	
16-Mar-05	3100				11.6	
25-May-05	2400	NA	NA	NA	11.3	NA
31-Aug-05	3200	<10	<10	<10	9.9	NA
1-Dec-05	2800	<50	<50	<50	10.2	NA
9-Mar-06	2900	<50	<50	<50	9.5	51
14-Jun-06	2600	<50	<50	<50	8.6	48
20-Jul-06	2850	<50	<50	<50	9.7	50
8-Nov-06	2670	1.7	<1	<1	10.1	49
28-Feb-07	2200	1.5	<1	<1	9	49
27-Jun-07	2400	1.7	<1	<1	9.4	47
15-Aug-07	2700	1.5	<1	<1	9.5	45
10-Oct-07	2500	1.5	<1	<1	9.5	47
26-Mar-08	2800	1.6	<1	<1	9.2	43
25-Jun-08	2500	1.5	<1	<1	10.8	42
10-Sep-08	2200	1.4	<1	<1	8.83	39
15-Oct-08	2500	2	<2	<2	10.1	44
4-Mar-09	2200	1.2	<1	<1	10.2	37
24-Jun-09	1800	1.2	<1	<1	8.2	34
15-Sep-09	2000	1.1	<1	<1	8.4	39
29-Dec-09	950	1.1	<1	<1	7.6	41
17-Feb-10	1700	1	<1	<1	6.6	48
10-Jun-10	2000	1.2	<1	<1	7.6	35
16-Aug-10	2100	1.3	<1	<1	7.3	36
11-Oct-10	1700	1.3	<1	<1	7.1	38

TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
23-Feb-11	1800	1.4	ND	ND	7	41
1-Jun-11	1700	1.2	ND	ND	7	35
17-Aug-11	1500	ND	ND	ND	6.6	40
16-Nov-11	1500	1	ND	ND	7	39
23-Jan-12	1200	ND	ND	ND	7.1	38
6-Jun-12	1500	ND	ND	ND	7.1	43
4-Sep-12	1600	1.2	ND	ND	7.1	39
3-Oct-12	1400	1	ND	ND	7	38
11-Feb-13	1460	1.12	ND	ND	7.36	39
5-Jun-13	1330	ND	ND	ND	6.3	39.6
3-Sep-13	1380	ND	ND	ND	7.22	38.8
29-Oct-13	1360	5.3	ND	ND	7.84	43.9
27-Jan-14	1260	3.88	ND	ND	7.28	37.4
19-May-14	1220	5	ND	ND	5.91	47.5
11-Aug-14	1320	ND	7	ND	5.30	40.0
21-Oct-14	1130	ND	ND	ND	7.02	40.0
9-Mar-15	1350	1	ND	ND	7.70	37.6
8-Jun-15	1280	ND	ND	ND	6.33	41.3
31-Aug-15	1220	ND	ND	ND	6.45	45.8

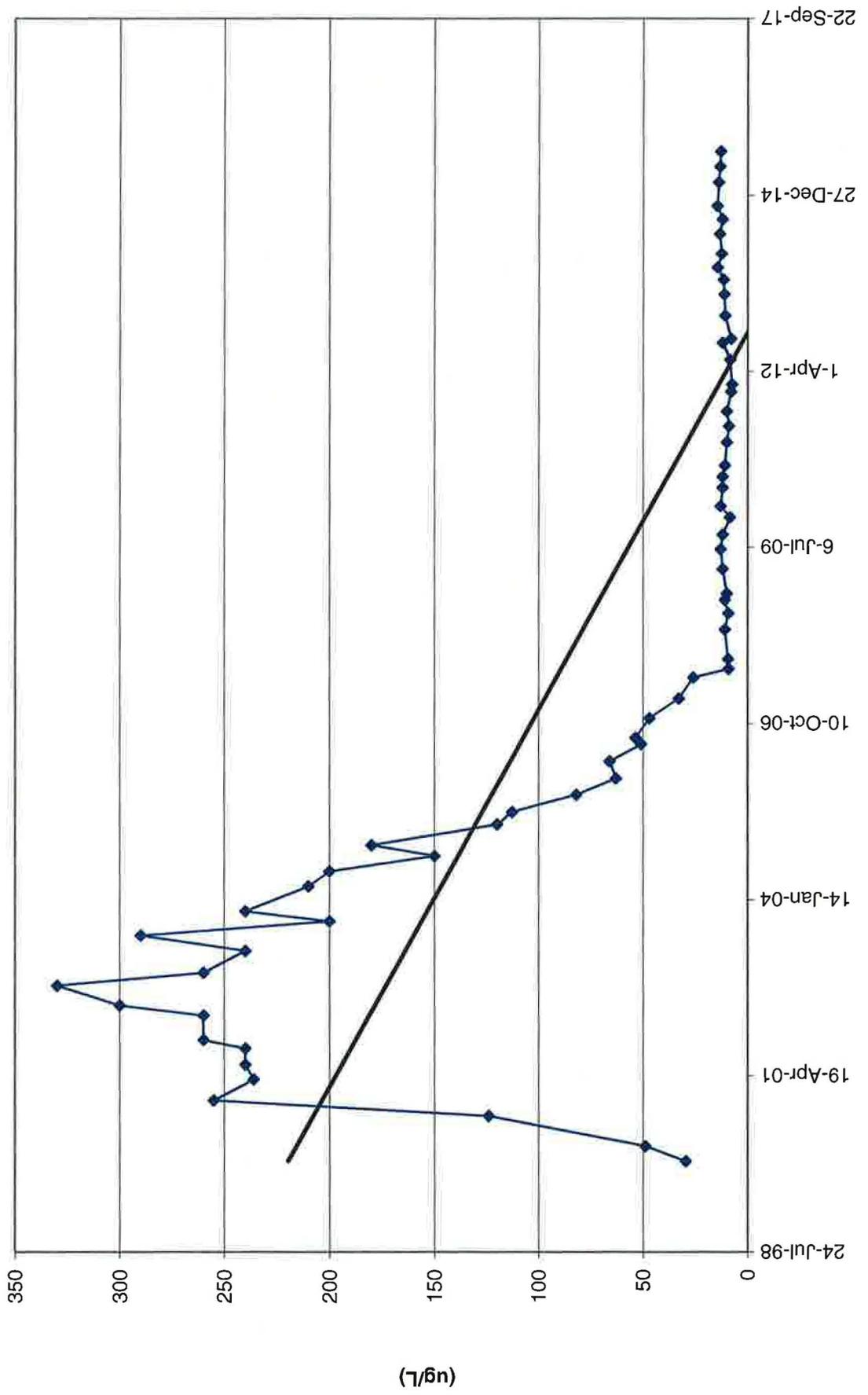
TW4-4 Chloroform Values



TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	29.5					
15-Mar-00	49.0					
2-Sep-00	124					
29-Nov-00	255					
28-Mar-01	236					
20-Jun-01	240					
20-Sep-01	240					
7-Nov-01	260					
26-Mar-02	260					
22-May-02	300					
12-Sep-02	330					
24-Nov-02	260					
28-Mar-03	240					
23-Jun-03	290					
12-Sep-03	200					
8-Nov-03	240					
29-Mar-04	210					
22-Jun-04	200					
17-Sep-04	150					
17-Nov-04	180					
16-Mar-05	120					
25-May-05	113	NA	NA	NA	3.7	NA
31-Aug-05	82.0	<2.5	5.8	<2.5	6	NA
1-Dec-05	63.0	<2.5	2.5	<2.5	6	NA
9-Mar-06	66.0	<2.5	3.1	<2.5	6	52
14-Jun-06	51.0	<1	<2.5	<2.5	5.9	51
20-Jul-06	53.7	<1	<1	<1	6.7	54
8-Nov-06	47.1	<1	<1	<1	2.9	55
28-Feb-07	33.0	<1	<1	<1	7.8	57
27-Jun-07	26.0	<1	<1	<1	7	45
15-Aug-07	9.2	<1	<1	<1	7.7	38
10-Oct-07	9.4	<1	<1	<1	8.2	39
26-Mar-08	11.0	<1	<1	<1	7.4	36
25-Jun-08	9.3	<1	<1	<1	8.7	37
10-Sep-08	11.0	<1	<1	<1	7.91	34
15-Oct-08	10.0	<1	<1	<1	9.3	37
4-Mar-09	12.0	<1	<1	<1	7.9	34
24-Jun-09	13.0	<1	<1	<1	7.5	37
15-Sep-09	12.0	<1	<1	<1	8.3	48
22-Dec-09	8.5	<1	<1	<1	7.5	41
25-Feb-10	13.0	<1	<1	<1	6.8	43
9-Jun-10	12.0	<1	<1	<1	7.1	28
11-Aug-10	12.0	<1	<1	<1	7	38

TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Oct-10	11.0	<1	<1	<1	7.2	41
22-Feb-11	10.0	ND	ND	ND	7	34
26-May-11	9.0	ND	ND	ND	7.2	35
17-Aug-11	10.0	ND	ND	ND	7.5	37
7-Dec-11	7.9	ND	ND	ND	6	30
18-Jan-12	7.6	ND	ND	ND	5.8	22
6-Jun-12	8.4	ND	ND	ND	8	39
11-Sep-12	12.0	ND	ND	ND	8.1	37
3-Oct-12	8.0	ND	ND	ND	7.7	38
13-Feb-13	10.8	ND	ND	ND	8.24	34.3
13-Jun-13	11.2	ND	ND	ND	10.7	36.5
5-Sep-13	11.6	ND	ND	ND	7.79	39.1
13-Nov-13	14.4	ND	ND	ND	7.75	41.1
30-Jan-14	12.5	ND	ND	ND	9.16	40.5
22-May-14	13.4	ND	ND	ND	7.78	51.4
14-Aug-14	12.0	ND	ND	ND	7.2	44
28-Oct-14	14.6	ND	ND	ND	8.31	45.1
12-Mar-15	13.8	ND	ND	ND	9.32	45.1
10-Jun-15	13.3	ND	1.07	ND	7.08	47.3
3-Sep-15	12.9	ND	ND	ND	8.1	52.2

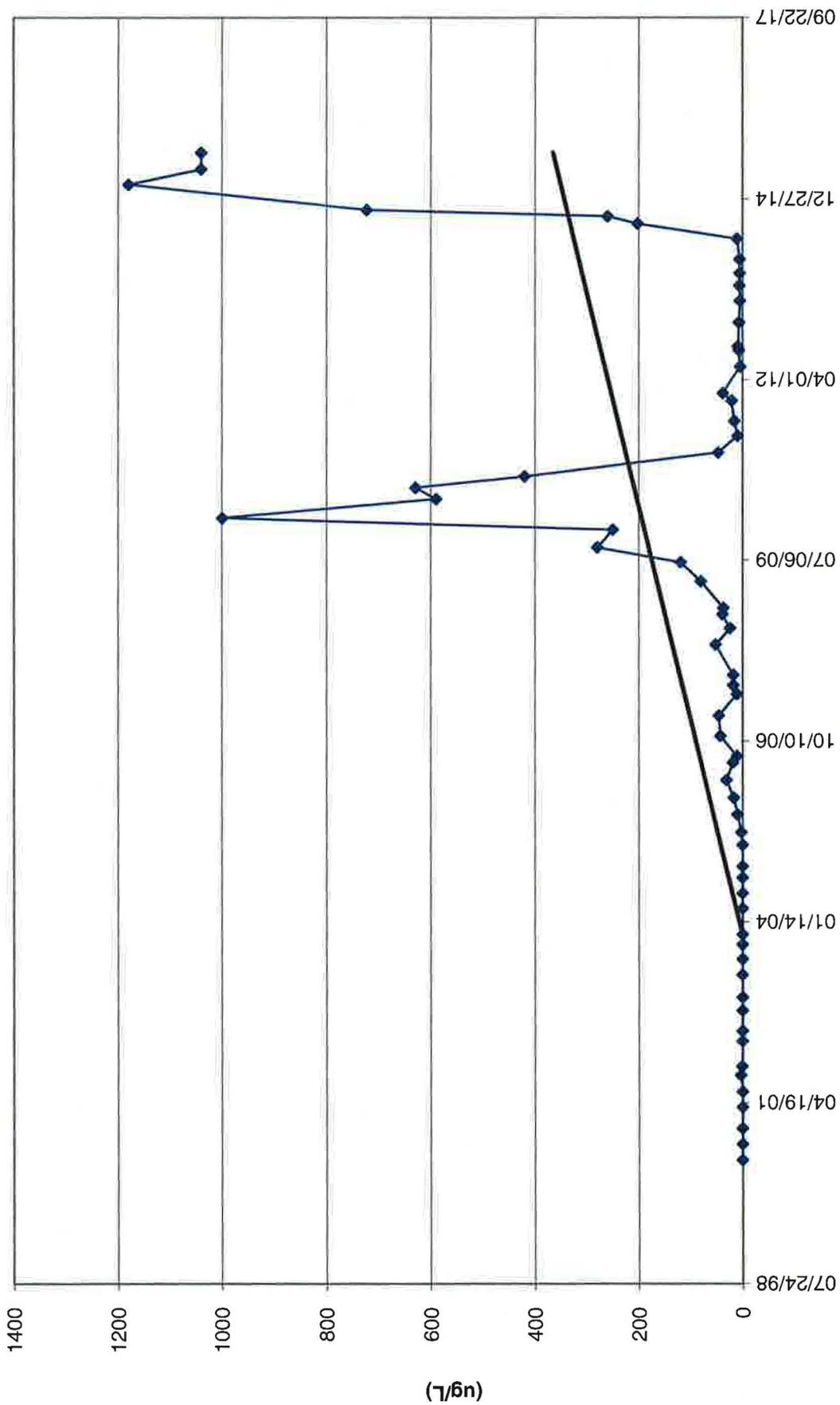
TW4-5 Chloroform Values



TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	0				ND	
26-Mar-01	0				0.13	
20-Jun-01	0				ND	
20-Sep-01	4				ND	
7-Nov-01	1				ND	
26-Mar-02	0				ND	
21-May-02	0				ND	
12-Sep-02	0				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	0				ND	
12-Sep-03	0				ND	
8-Nov-03	0				ND	
29-Mar-04	0				ND	
22-Jun-04	0				ND	
17-Sep-04	0				ND	
17-Nov-04	0				ND	
16-Mar-05	0				0.2	
25-May-05	2.5	NA	NA	NA	0.4	NA
31-Aug-05	10.0	<1	2.8	<1	0.8	NA
1-Dec-05	17.0	<1	1.3	<1	0.9	NA
9-Mar-06	31.0	<1	<1	<1	1.2	31
14-Jun-06	19.0	<1	<1	<1	1	30
20-Jul-06	11.0	<1	<1	<1	0.6	37
8-Nov-06	42.8	<1	<1	<1	1.4	65
28-Feb-07	46.0	<1	<1	<1	1.5	32
27-Jun-07	11.0	<1	<1	<1	0.6	38
15-Aug-07	18.0	<1	<1	<1	0.7	36
10-Oct-07	18.0	<1	<1	<1	0.8	38
26-Mar-08	52.0	<1	<1	<1	1.1	33
25-Jun-08	24.0	<1	<1	<1	0.9	35
10-Sep-08	39.0	<1	<1	<1	1.14	35
15-Oct-08	37.0	<1	<1	<1	1.01	33
11-Mar-09	81.0	<1	<1	<1	2.2	35
24-Jun-09	120	<1	<1	<1	2.7	37
15-Sep-09	280	<1	<1	<1	5.0	37
22-Dec-09	250	<1	<1	<1	6.1	41
25-Feb-10	1000	<1	<1	<1	1.6	45
10-Jun-10	590	<1	<1	<1	2.5	33
12-Aug-10	630	<1	<1	<1	3.9	31
13-Oct-10	420	<1	<1	<1	4.3	41
23-Feb-11	47	ND	ND	ND	0.7	40
26-May-11	10	ND	ND	ND	0.3	42
17-Aug-11	16	ND	ND	ND	0.3	39
7-Dec-11	21	ND	ND	ND	0.8	36

TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
18-Jan-12	38	ND	ND	ND	0.7	38
13-Jun-12	4.7	ND	ND	ND	0.2	40
11-Sep-12	6.9	ND	ND	ND	0.1	21
3-Oct-12	9.0	ND	ND	ND	0.2	41
13-Feb-13	6.9	ND	ND	ND	0.154	40.4
13-Jun-13	4.9	ND	ND	ND	0.155	37.9
5-Sep-13	5.9	ND	ND	ND	0.157	40.6
13-Nov-13	5.5	ND	ND	ND	1.52	40.2
29-Jan-14	5.7	ND	ND	ND	0.184	40.6
22-May-14	10.3	ND	ND	ND	0.312	37
14-Aug-14	202.0	ND	ND	ND	4.2	40
24-Sep-14	260.0	ND	ND	ND	N/A	N/A
29-Oct-14	723.0	ND	ND	ND	6.92	41.1
18-Mar-15	1180.0	ND	ND	ND	5.25	41.2
11-Jun-15	1040.0	ND	ND	ND	5.87	41.6
10-Sep-15	1040.0	ND	ND	ND	6.75	47.0

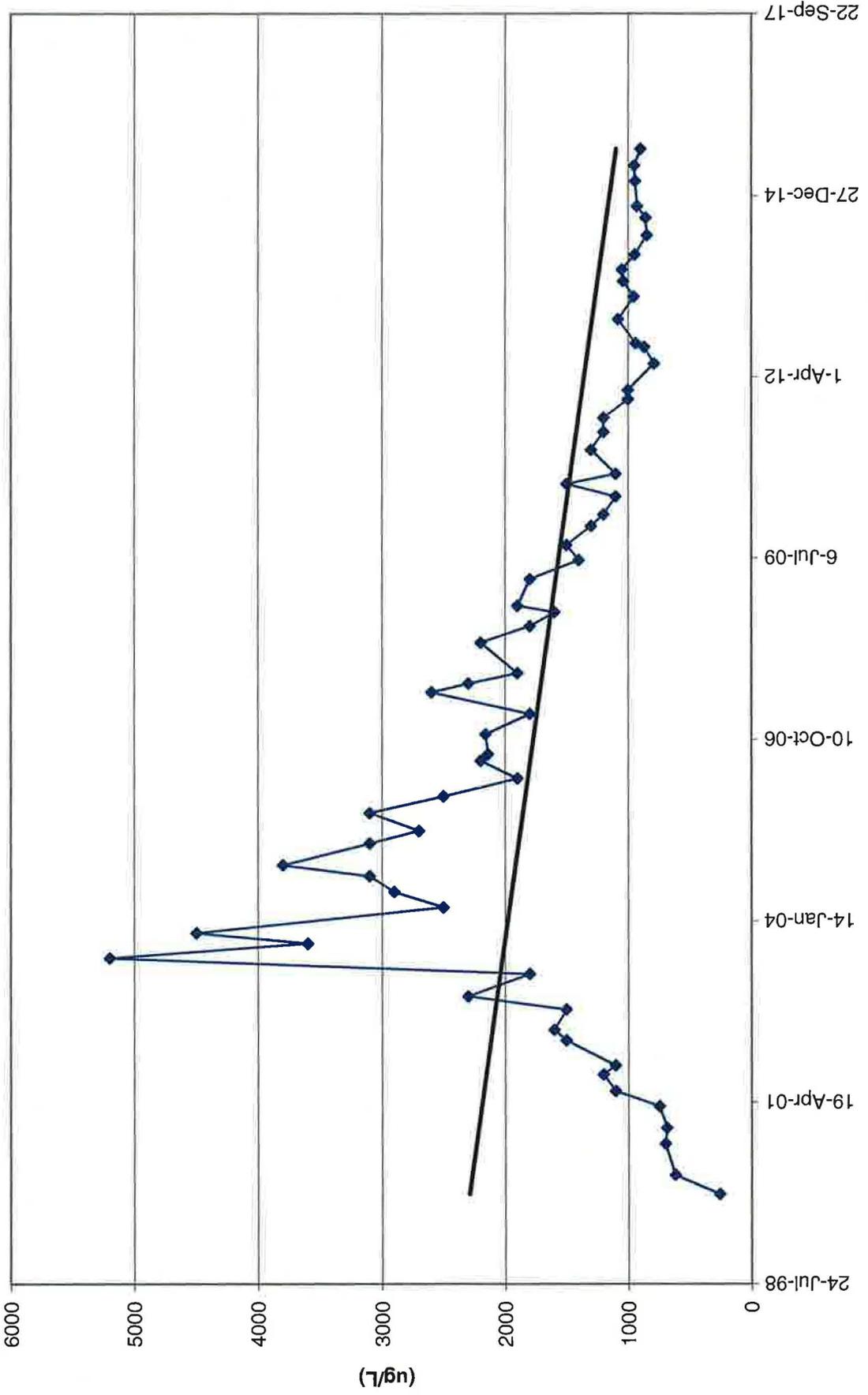
TW4-6 Chloroform Values



TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	256					
15-Mar-00	616					
2-Sep-00	698					
29-Nov-00	684				1.99	
28-Mar-01	747				2.46	
20-Jun-01	1100				2.65	
20-Sep-01	1200				3.38	
8-Nov-01	1100				2.5	
26-Mar-02	1500				3.76	
23-May-02	1600				3.89	
12-Sep-02	1500				3.18	
24-Nov-02	2300				4.6	
28-Mar-03	1800				4.8	
23-Jun-03	5200				7.6	
12-Sep-03	3600				7.6	
8-Nov-03	4500				7.1	
29-Mar-04	2500				4.63	
22-Jun-04	2900				4.83	
17-Sep-04	3100				5.59	
17-Nov-04	3800				6	
16-Mar-05	3100				5.2	
25-May-05	2700	NA	NA	NA	5.4	NA
31-Aug-05	3100	<10	<10	<10	5.2	NA
1-Dec-05	2500	<50	<50	<50	5.3	NA
9-Mar-06	1900	<50	<50	<50	1	48
14-Jun-06	2200	<50	<50	<50	4.5	47
20-Jul-06	2140	<50	<50	<50	4.7	51
8-Nov-06	2160	1.5	<1	<1	4.6	49
28-Feb-07	1800	1.1	<1	<1	5	47
27-Jun-07	2600	1.5	<1	<1	5.1	45
14-Aug-07	2300	1.4	<1	<1	4.7	44
10-Oct-07	1900	1.2	<1	<1	4.7	45
26-Mar-08	2200	1.3	<1	<1	4.2	43
25-Jun-08	1800	1.3	<1	<1	4.8	43
10-Sep-08	1600	1.4	<1	<1	4.16	35
15-Oct-08	1900	<2	<2	<2	4.01	40
11-Mar-09	1800	1.2	<1	<1	3.7	35
24-Jun-09	1400	<1	<1	<1	3.8	37
15-Sep-09	1500	1.0	<1	<1	4.1	37
29-Dec-09	1300	<1	<1	<1	4.2	37
3-Mar-10	1200	<1	<1	<1	3.8	36
10-Jun-10	1100	<1	<1	<1	3.9	31
18-Aug-10	1500	1.1	<1	<1	3.9	36

TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Oct-10	1100	1.1	<1	<1	4	38
23-Feb-11	1300	ND	ND	ND	3.6	45
1-Jun-11	1200	ND	ND	ND	4	35
18-Aug-11	1200	ND	ND	ND	4.1	37
29-Nov-11	1000	ND	ND	ND	3.8	37
19-Jan-12	1000	ND	ND	ND	3.9	37
14-Jun-12	790	ND	ND	ND	4	41
13-Sep-12	870	ND	ND	ND	3.8	40
4-Oct-12	940	ND	ND	ND	3.8	41
13-Feb-13	1080	3.51	ND	ND	3.9	37.7
18-Jun-13	953	ND	ND	ND	4.04	39.3
12-Sep-13	1040	ND	ND	ND	4.17	36.4
14-Nov-13	1050	ND	ND	ND	4.13	37.2
5-Feb-14	946	5.41	ND	ND	4.24	38.2
23-May-14	847	4.78	ND	ND	4.19	37.7
27-Aug-14	857	ND	1.5	ND	2.9	39
30-Oct-14	926	ND	ND	ND	3.68	40.2
18-Mar-15	942	ND	ND	ND	4.25	40.4
11-Jun-15	950	ND	ND	ND	2.62	42.1
10-Sep-15	897	ND	ND	ND	4.72	46.7

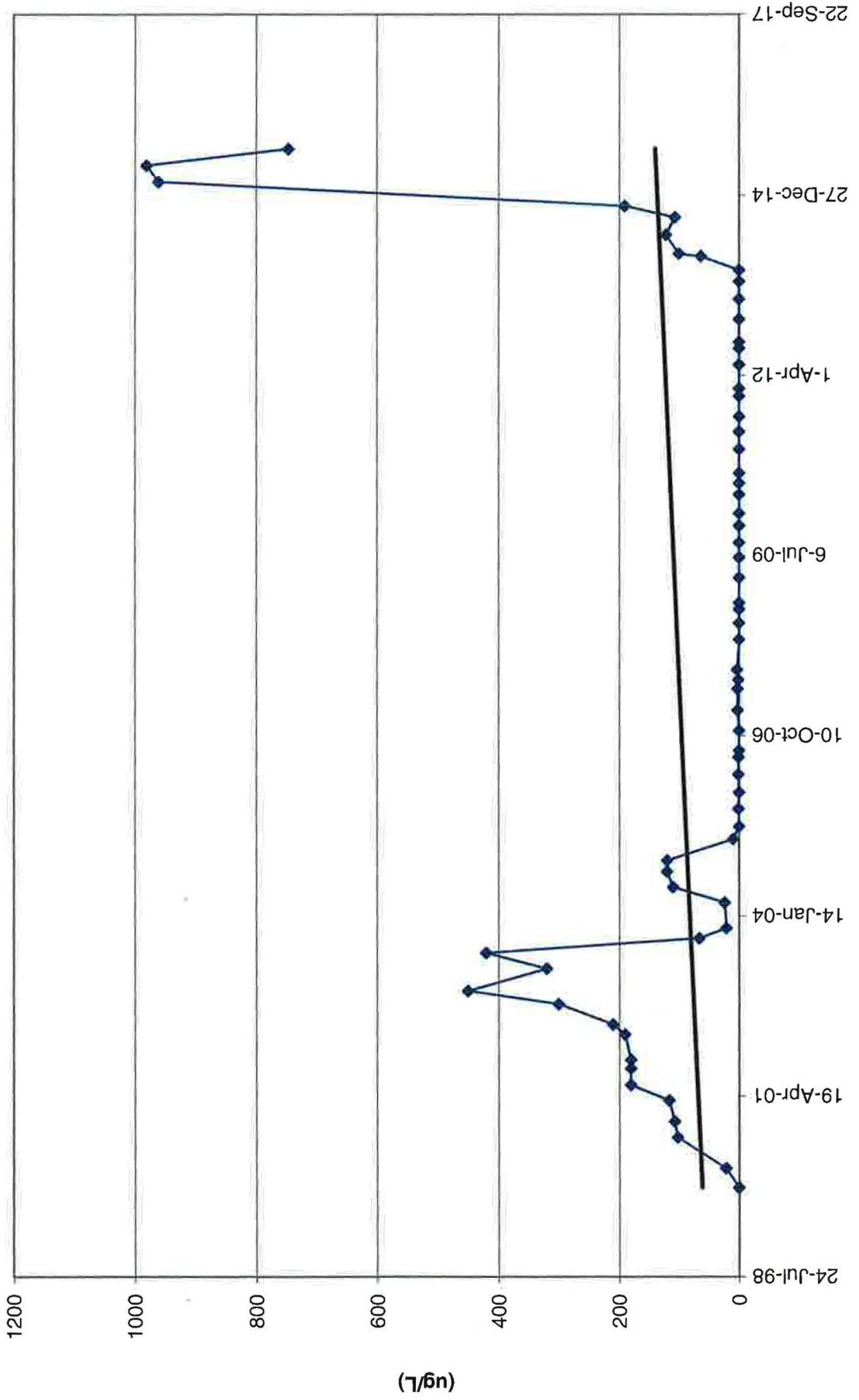
TW4-7 Chloroform Values



TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	0					
15-Mar-00	21.8					
2-Sep-00	102					
29-Nov-00	107				ND	
26-Mar-01	116				ND	
20-Jun-01	180				ND	
20-Sep-01	180				0.35	
7-Nov-01	180				ND	
26-Mar-02	190				0.62	
22-May-02	210				0.77	
12-Sep-02	300				ND	
24-Nov-02	450				ND	
28-Mar-03	320				0.8	
23-Jun-03	420				ND	
12-Sep-03	66.0				ND	
8-Nov-03	21.0				0.1	
29-Mar-04	24.0				0.65	
22-Jun-04	110				0.52	
17-Sep-04	120				ND	
17-Nov-04	120				ND	
16-Mar-05	10.0				ND	
25-May-05	<1	NA	NA	NA	0.2	NA
31-Aug-05	1.1	<1	1.7	<1	<0.1	NA
30-Nov-05	<1	<1	<1	<1	<0.1	NA
9-Mar-06	1.3	<1	2.1	<1	0.3	39
14-Jun-06	1.0	<1	1.8	<1	<0.1	37
20-Jul-06	<1	<1	<1	<1	0.1	39
8-Nov-06	<1	<1	<1	<1	<0.1	40
28-Feb-07	2.5	<1	<1	<1	0.7	39
27-Jun-07	2.5	<1	<1	<1	0.2	42
15-Aug-07	1.5	<1	<1	<1	<0.1	42
10-Oct-07	3.5	<1	<1	<1	0.5	43
26-Mar-08	<1	<1	<1	<1	0.1	46
25-Jun-08	<1	<1	<1	<1	<0.05	45
10-Sep-08	<1	<1	<1	<1	<0.05	39
15-Oct-08	<1	<1	<1	<1	<0.05	44
4-Mar-09	<1	<1	<1	<1	<0.1	42
24-Jun-09	<1	<1	<1	<1	<0.1	44
15-Sep-09	<1	<1	<1	<1	<1	44
17-Dec-09	<1	<1	<1	<1	<0.1	51
24-Feb-10	<1	<1	<1	<1	<0.1	57
9-Jun-10	<1	<1	<1	<1	<0.1	42
11-Aug-10	<1	<1	<1	<1	<0.1	45

TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
5-Oct-10	<1	<1	<1	<1	<0.1	46
16-Feb-11	ND	ND	ND	ND	ND	52
25-May-11	ND	ND	ND	ND	0.1	45
16-Aug-11	ND	ND	ND	ND	0.1	46
7-Dec-11	ND	ND	ND	ND	0.2	45
18-Jan-12	ND	ND	ND	ND	0.3	45
31-May-12	ND	ND	ND	ND	0.2	44
29-Aug-12	ND	ND	ND	ND	0.1	48
3-Oct-12	ND	ND	ND	ND	ND	47
7-Feb-13	ND	ND	ND	ND	0.411	46.6
30-May-13	ND	ND	ND	ND	ND	45.5
5-Sep-13	ND	ND	ND	ND	ND	47.5
7-Nov-13	ND	ND	ND	ND	ND	46.1
23-Jan-14	63.8	ND	ND	ND	0.166	48.5
6-Feb-14	100	ND	ND	ND	0.165	46.6
22-May-14	122	ND	ND	ND	0.538	53
27-Aug-14	107	ND	ND	ND	0.6	47
29-Oct-14	191	ND	ND	ND	0.914	46.7
12-Mar-15	961	ND	ND	ND	2.34	49.6
11-Jun-15	981	ND	ND	ND	1.88	53
10-Sep-15	747	ND	ND	ND	1.96	59.6

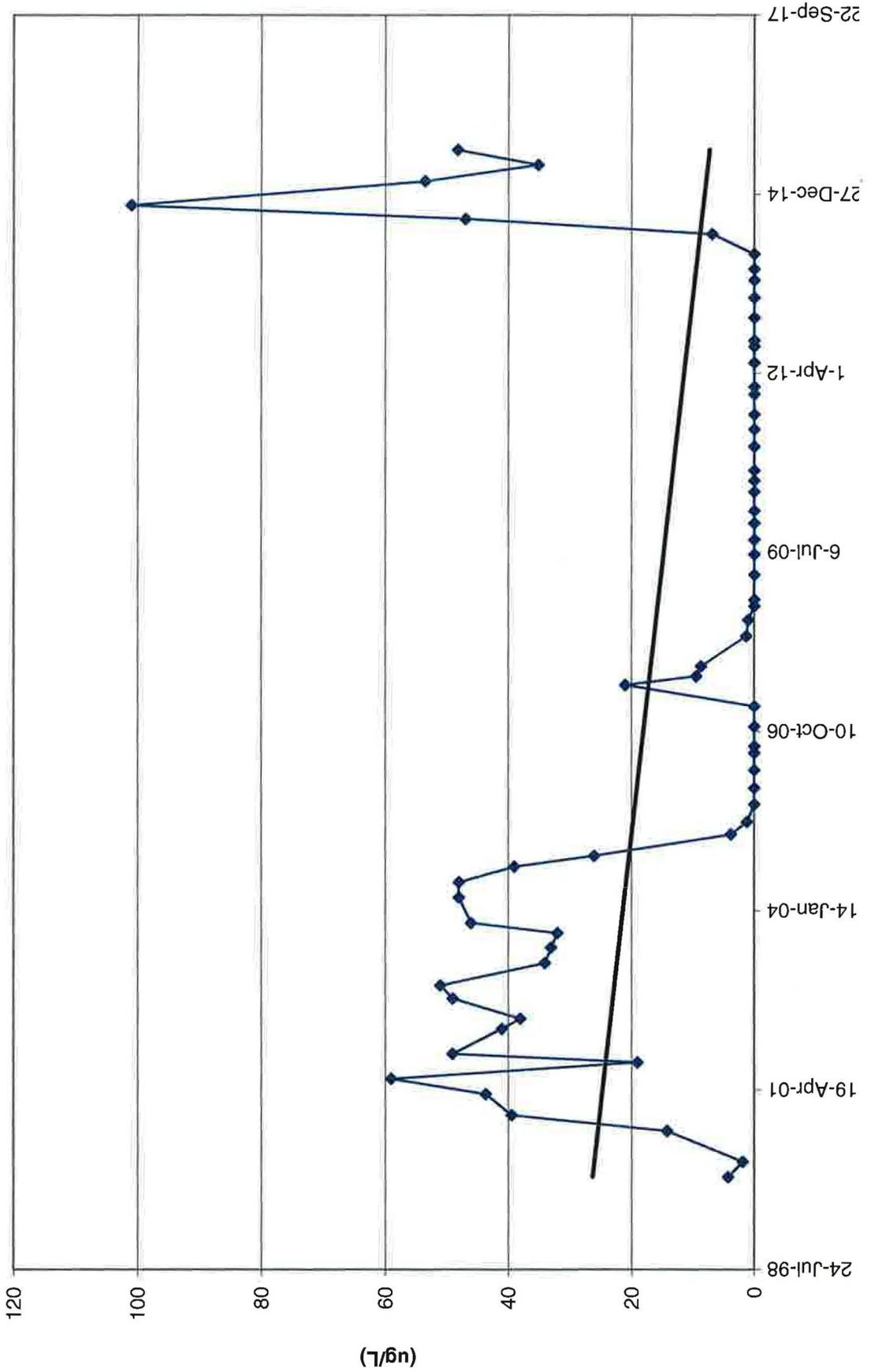
TW4-8 Chloroform Values



TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	4.2					
15-Mar-00	1.9					
2-Sep-00	14.2					
29-Nov-00	39.4				ND	
27-Mar-01	43.6				ND	
20-Jun-01	59.0				0.15	
20-Sep-01	19.0				0.4	
7-Nov-01	49.0				0.1	
26-Mar-02	41.0				0.5	
22-May-02	38.0				0.65	
12-Sep-02	49.0				0.2	
24-Nov-02	51.0				0.6	
28-Mar-03	34.0				0.6	
23-Jun-03	33.0				0.8	
12-Sep-03	32.0				1.1	
8-Nov-03	46.0				1.1	
29-Mar-04	48.0				0.82	
22-Jun-04	48.0				0.75	
17-Sep-04	39.0				0.81	
17-Nov-04	26.0				1.2	
16-Mar-05	3.8				1.3	
25-May-05	1.2	NA	NA	NA	1.3	NA
31-Aug-05	<1	<1	2.9	<1	1.3	NA
1-Dec-05	<1	<1	<1	<1	1.3	NA
9-Mar-06	<1	<1	2.6	<1	1.5	38
14-Jun-06	<1	<1	2.7	<1	1.5	39
20-Jul-06	<1	<1	<1	<1	0.9	41
8-Nov-06	<1	<1	<1	<1	0.7	44
28-Feb-07	<1	<1	<1	<1	0.6	44
27-Jun-07	21	<1	<1	<1	1.3	42
15-Aug-07	9.5	<1	<1	<1	1.8	38
10-Oct-07	8.7	<1	<1	<1	2	40
26-Mar-08	1.3	<1	<1	<1	2.1	35
25-Jun-08	1.0	<1	<1	<1	2.3	35
10-Sep-08	<1	<1	<1	<1	2.79	28
15-Oct-08	<1	<1	<1	<1	1.99	58
4-Mar-09	<1	<1	<1	<1	2.5	30
24-Jun-09	<1	<1	<1	<1	2.3	30
15-Sep-09	<1	<1	<1	<1	2.5	30
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40

TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
25-May-11	ND	ND	ND	ND	3.4	38
16-Aug-11	ND	ND	ND	ND	4	21
7-Dec-11	ND	ND	ND	ND	2.3	38
18-Jan-12	ND	ND	ND	ND	2.3	28
31-May-12	ND	ND	ND	ND	4	23
30-Aug-12	ND	ND	ND	ND	3.9	22
3-Oct-12	ND	ND	ND	ND	3.8	21
7-Feb-13	ND	ND	ND	ND	4.12	20.6
30-May-13	ND	ND	ND	ND	4.49	21.4
5-Sep-13	ND	ND	ND	ND	4.03	22.7
7-Nov-13	ND	ND	ND	ND	4.87	23.6
29-Jan-14	ND	ND	ND	ND	4.36	22
21-May-14	6.9	ND	ND	ND	3.44	24
14-Aug-14	46.9	ND	ND	ND	2.7	27
29-Oct-14	101	ND	ND	ND	4.27	25
12-Mar-15	53.5	ND	ND	ND	3.28	29.5
11-Jun-15	35.1	ND	ND	ND	1.83	35.3
3-Sep-15	48.2	ND	ND	ND	1.44	39.5

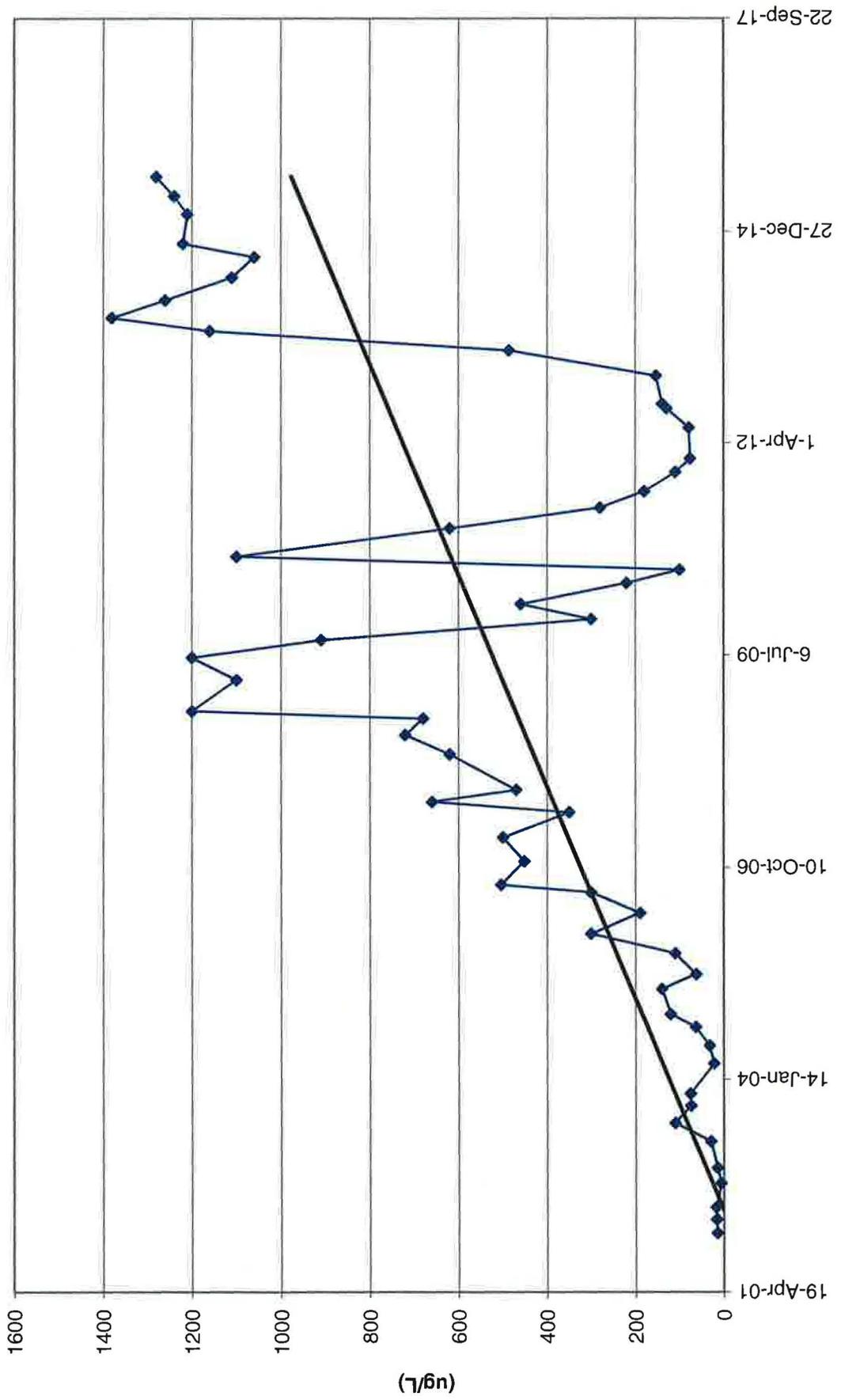
TW4-9 Chloroform Values



TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	14					
26-Mar-02	16				0.14	
21-May-02	17				0.11	
12-Sep-02	6				ND	
24-Nov-02	14				ND	
28-Mar-03	29				0.2	
23-Jun-03	110				0.4	
12-Sep-03	74				0.4	
8-Nov-03	75				0.3	
29-Mar-04	22				0.1	
22-Jun-04	32				ND	
17-Sep-04	63				0.46	
17-Nov-04	120				0.4	
16-Mar-05	140				1.6	
25-May-05	62.4	NA	NA	NA	0.8	NA
31-Aug-05	110	<2.5	6.2	<2.5	1.1	NA
1-Dec-05	300	<2.5	<2.5	<2.5	3.3	NA
9-Mar-06	190	<5	<50	<50	2.4	50
14-Jun-06	300	<5	<50	<50	3.5	54
20-Jul-06	504	<5	<50	<50	6.8	61
8-Nov-06	452	<1	1.6	1	5.7	58
28-Feb-07	500	<1	<1	1	7.6	62
27-Jun-07	350	<1	<1	1	5.1	54
15-Aug-07	660	<1	<1	1	7.3	59
10-Oct-07	470	<1	<1	1	6.7	59
26-Mar-08	620	<1	<1	1	7.3	55
25-Jun-08	720	<1	<1	1	9.91	58
10-Sep-08	680	<1	<1	1	9.23	51
15-Oct-08	1200	<2	<2	2	10.5	61
11-Mar-09	1100	<1	<1	1	11.6	64
24-Jun-09	1200	<1	<1	1	9.8	62
15-Sep-09	910	<1	<1	1	8.1	51
22-Dec-09	300	<1	<1	<1	3.5	51
3-Mar-10	460	<1	<1	<1	5	49
10-Jun-10	220	<1	<1	<1	1.6	42
12-Aug-10	100	<1	<1	<1	0.8	38
13-Oct-10	1100	<1	<1	<1	11	52
23-Feb-11	620	ND	ND	ND	9	62
1-Jun-11	280	ND	ND	ND	3.3	42
17-Aug-11	180	ND	ND	ND	1.9	41
16-Nov-11	110	ND	ND	ND	1.1	45
19-Jan-12	76	ND	ND	ND	0.9	40
13-Jun-12	79	ND	ND	ND	0.8	46

TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-12	130	ND	ND	ND	1.0	44
3-Oct-12	140	ND	ND	ND	1.6	45
13-Feb-13	154	ND	ND	ND	1.2	49.1
13-Jun-13	486	ND	ND	ND	5.6	51.5
12-Sep-13	1160	ND	ND	ND	13.0	67.9
14-Nov-13	1380	ND	ND	ND	16.0	70.9
5-Feb-14	1260	5.16	ND	ND	16.8	73
23-May-14	1110	ND	ND	ND	13.9	77.3
27-Aug-14	1060	ND	1.5	ND	9.8	74
30-Oct-14	1220	ND	ND	ND	13.2	75.2
18-Mar-15	1210	ND	ND	ND	15.0	78.6
11-Jun-15	1240	ND	ND	ND	11.4	75
10-Sep-15	1280	ND	ND	ND	14.0	89.5

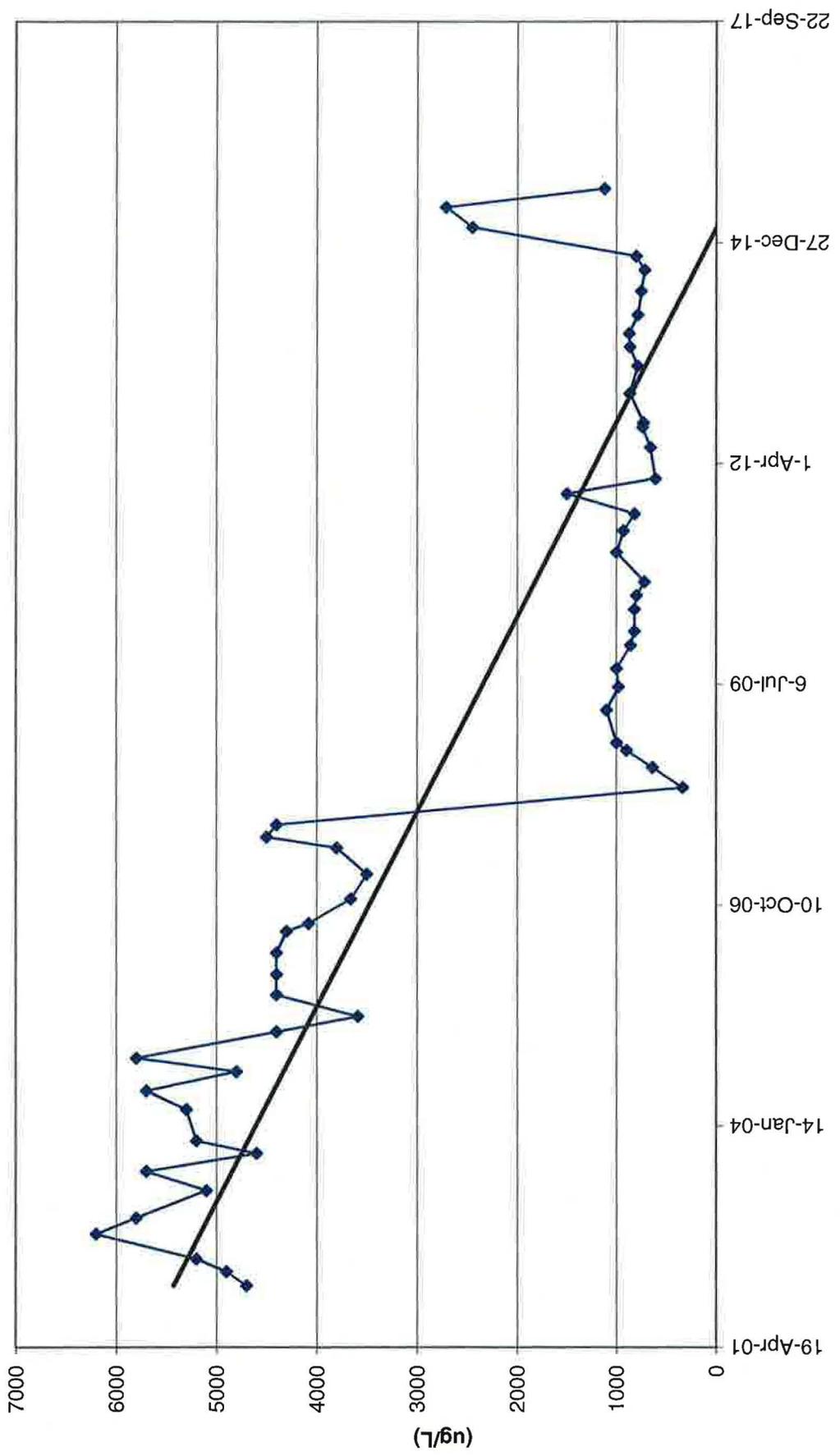
TW4-10 Chloroform Values



TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	4700					
26-Mar-02	4900				9.6	
22-May-02	5200				9.07	
12-Sep-02	6200				8.84	
24-Nov-02	5800				9.7	
28-Mar-03	5100				9.7	
23-Jun-03	5700				9.4	
12-Sep-03	4600				9.9	
8-Nov-03	5200				9.3	
29-Mar-04	5300				9.07	
22-Jun-04	5700				8.74	
17-Sep-04	4800				8.75	
17-Nov-04	5800				9.7	
16-Mar-05	4400				8.7	
25-May-05	3590	NA	NA	NA	10.3	NA
31-Aug-05	4400	<10	<10	<10	9.4	NA
1-Dec-05	4400	<100	<100	<100	9.4	NA
9-Mar-06	4400	<50	<50	<50	9.2	56
14-Jun-06	4300	<50	<50	<50	10	56
20-Jul-06	4080	<50	<50	<50	10	55
8-Nov-06	3660	1.7	2.7	1.3	10	55
28-Feb-07	3500	1.3	<1	1.6	10.1	54
27-Jun-07	3800	1.6	<1	1.1	10.6	53
15-Aug-07	4500	1.7	<1	1.1	10.2	53
10-Oct-07	4400	1.6	<1	1.2	9.8	53
26-Mar-08	340	<1	<1	<1	7.7	63
25-Jun-08	640	<1	<1	<1	7.28	46
10-Sep-08	900	<1	<1	<1	7.93	42
15-Oct-08	1000	<2	<2	<2	9.46	47
11-Mar-09	1100	<1	<1	<1	7.3	49
24-Jun-09	980	<1	<1	<1	6.8	44
15-Sep-09	1000	<1	<1	<1	7	49
29-Dec-09	860	<1	<1	<1	6.6	46
3-Mar-10	820	<1	<1	<1	6.8	42
10-Jun-10	820	<1	<1	<1	6.9	40
12-Aug-10	800	<1	<1	<1	6.7	43
13-Oct-10	720	<1	<1	<1	6.4	49
23-Feb-11	1000	ND	ND	ND	6.5	46
1-Jun-11	930	ND	ND	ND	7.3	49
17-Aug-11	820	ND	ND	ND	7.1	48
16-Nov-11	1500	ND	ND	ND	7.1	46
24-Jan-12	610	ND	ND	ND	6.8	43
13-Jun-12	660	ND	ND	ND	6.7	52

TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Sep-12	740	ND	ND	ND	3	49
4-Oct-12	730	ND	ND	ND	7	50
13-Feb-13	867	3.23	ND	ND	6.83	47.3
18-Jun-13	788	ND	ND	ND	7.42	49.7
12-Sep-13	865	ND	ND	ND	7.8	46.6
13-Nov-13	874	ND	ND	ND	8.01	46.7
5-Feb-14	785	5.19	ND	ND	8.47	48.5
23-May-14	751	ND	ND	ND	6.92	51.6
27-Aug-14	719	ND	1.2	ND	5.4	48
29-Oct-14	803	ND	ND	ND	7.33	56.4
9-Mar-15	2450	1.24	ND	ND	8.72	49.8
8-Jun-15	2710	ND	ND	ND	8.48	62.2
31-Aug-15	1120	ND	1.62	ND	9.61	73.1

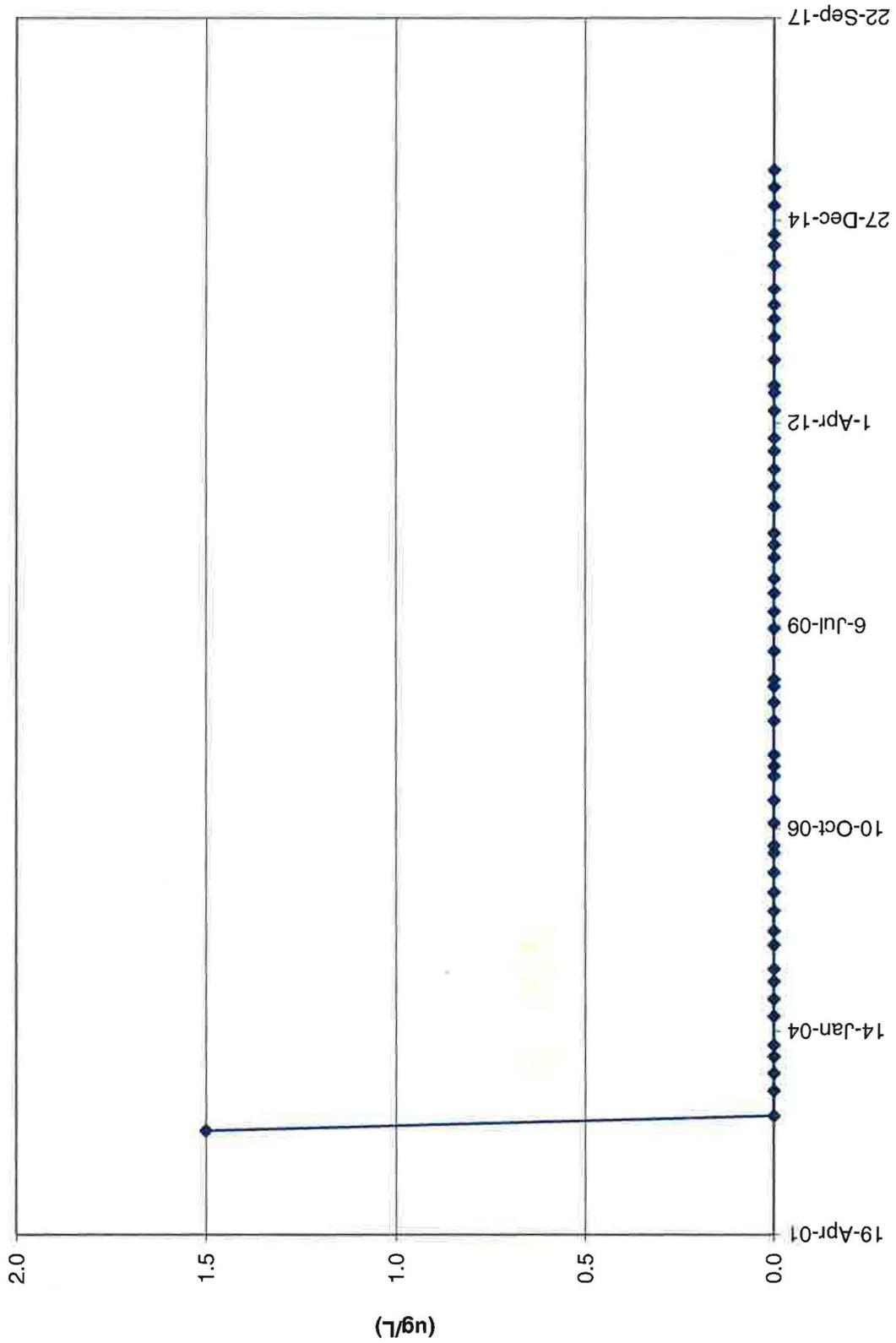
TW4-11 Chloroform Values



TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	2				2.54	
24-Nov-02	0				2.2	
28-Mar-03	0				1.9	
23-Jun-03	0				1.8	
12-Sep-03	0				1.8	
9-Nov-03	0				1.6	
29-Mar-04	0				1.58	
22-Jun-04	0				1.4	
17-Sep-04	0				1.24	
17-Nov-04	0				1.5	
16-Mar-05	0				1.4	
25-May-05	<1	NA	NA	NA	1.6	NA
31-Aug-05	<1	<1	5.8	<1	1.5	NA
1-Dec-05	<1	<1	1.9	<2	1.4	NA
9-Mar-06	<1	<1	2.6	<1	1.3	19
14-Jun-06	<1	<1	1.4	<1	1.4	16
20-Jul-06	<1	<1	<1	<1	1.4	16
8-Nov-06	<1	<1	<1	<1	1.4	16
28-Feb-07	<1	<1	<1	<1	1.5	16
27-Jun-07	<1	<1	<1	<1	1.5	18
15-Aug-07	<1	<1	<1	<1	1.4	29
10-Oct-07	<1	<1	<1	<1	1.4	16
26-Mar-08	<1	<1	<1	<1	1.6	16
25-Jun-08	<1	<1	<1	<1	2.69	19
10-Sep-08	<1	<1	<1	<1	2.65	18
15-Oct-08	<1	<1	<1	<1	2.47	22
4-Mar-09	<1	<1	<1	<1	2.4	23
24-Jun-09	<1	<1	<1	<1	3.8	22
15-Sep-09	<1	<1	<1	<1	5.1	22
16-Dec-09	<1	<1	<1	<1	3.6	23
23-Feb-10	<1	<1	<1	<1	4	22
8-Jun-10	<1	<1	<1	<1	11	29
10-Aug-10	<1	<1	<1	<1	9	35
5-Oct-10	<1	<1	<1	<1	8	31
15-Feb-11	ND	ND	ND	ND	6.5	31
25-May-11	ND	ND	ND	ND	7	32
16-Aug-11	ND	ND	ND	ND	6.8	31
15-Nov-11	ND	ND	ND	ND	8	30
17-Jan-12	ND	ND	ND	ND	7.7	28
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39
7-Feb-13	ND	ND	ND	ND	12.6	36.7

TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-May-13	ND	ND	ND	ND	14.2	38.6
29-Aug-13	ND	ND	ND	ND	17.4	41.7
6-Nov-13	ND	ND	ND	ND	16.4	41.4
22-Jan-14	ND	ND	ND	ND	18.4	41.6
21-May-14	ND	ND	ND	ND	17	40.2
27-Aug-14	ND	ND	ND	ND	13	47
23-Oct-14	ND	ND	ND	ND	16.1	50.2
11-Mar-15	ND	ND	ND	ND	19.2	50.6
10-Jun-15	ND	ND	ND	ND	18.8	56
2-Sep-15	ND	ND	ND	ND	16.4	60.2

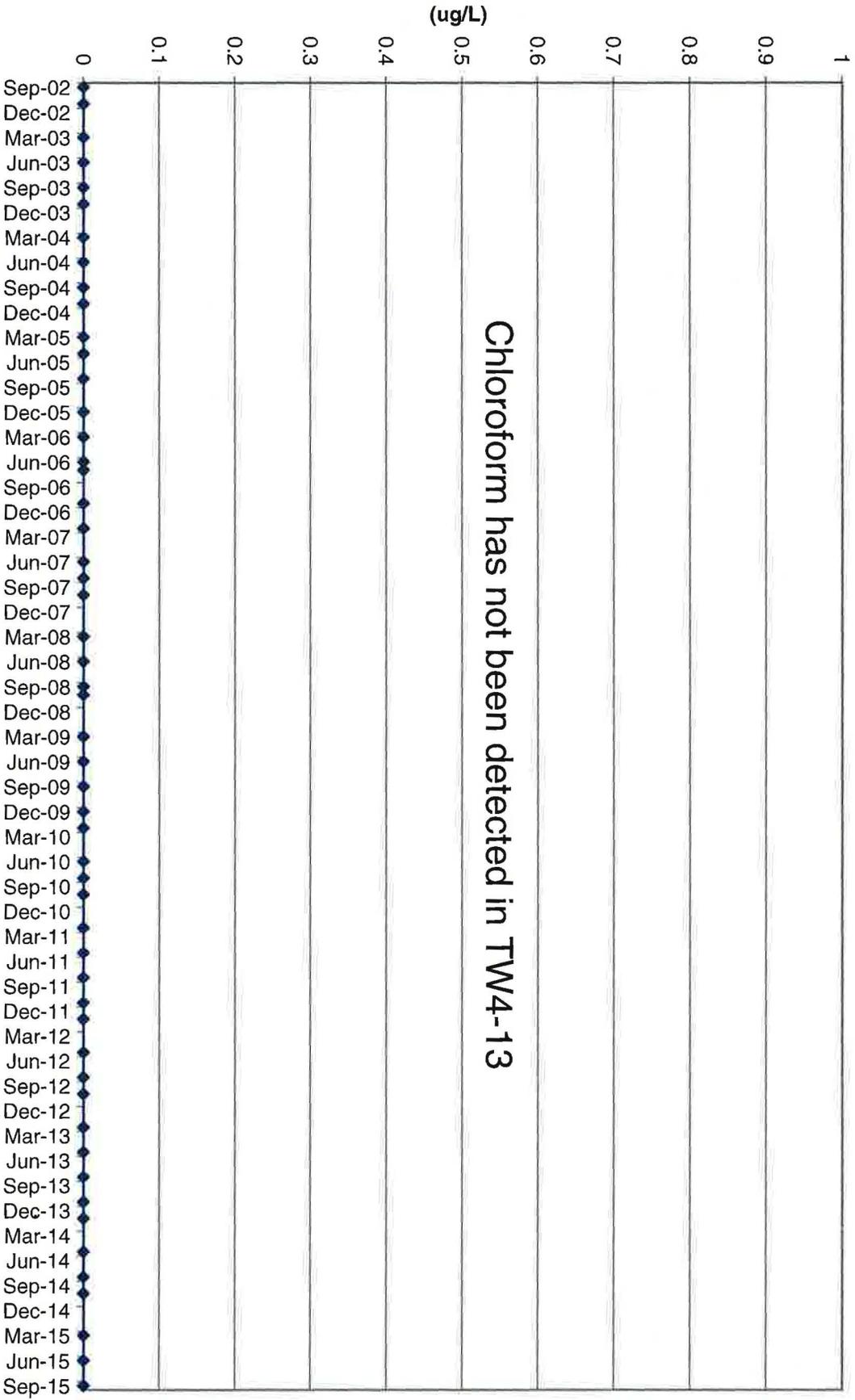
TW4-12 Chloroform Values



TW4-13	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	ND				ND	
24-Nov-02	ND				ND	
28-Mar-03	ND				0.2	
23-Jun-03	ND				0.2	
12-Sep-03	ND				ND	
9-Nov-03	ND				0.9	
29-Mar-04	ND				0.12	
22-Jun-04	ND				0.17	
17-Sep-04	ND				4.43	
17-Nov-04	ND				4.7	
16-Mar-05	ND				4.2	
25-May-05	<1	NA	NA	NA	4.3	NA
31-Aug-05	<1	<1	3.1	<1	4.6	NA
1-Dec-05	<1	<1	<1	<1	4.3	NA
9-Mar-06	<1	<1	1.7	<1	4.2	67
14-Jun-06	<1	<1	1.4	<1	4.9	66
20-Jul-06	<1	<1	<1	<1	4.3	65
8-Nov-06	<1	<1	<1	<1	0.8	33
28-Feb-07	<1	<1	<1	<1	4	59
27-Jun-07	<1	<1	<1	<1	4.6	59
15-Aug-07	<1	<1	<1	<1	4.4	58
10-Oct-07	<1	<1	<1	<1	4.1	58
26-Mar-08	<1	<1	<1	<1	3.8	54
25-Jun-08	<1	<1	<1	<1	4.24	58
10-Sep-08	<1	<1	<1	<1	4.26	50
15-Oct-08	<1	<1	<1	<1	4.63	58
4-Mar-09	<1	<1	<1	<1	3.7	58
24-Jun-09	<1	<1	<1	<1	1.2	57
15-Sep-09	<1	<1	<1	<1	4.7	63
16-Dec-09	<1	<1	<1	<1	4.1	60
24-Feb-10	<1	<1	<1	<1	4.3	53
8-Jun-10	<1	<1	<1	<1	5.2	52
10-Aug-10	<1	<1	<1	<1	5.6	55
5-Oct-10	<1	<1	<1	<1	5.8	55
15-Feb-11	ND	ND	ND	ND	5.5	60
25-May-11	ND	ND	ND	ND	5.4	56
16-Aug-11	ND	ND	ND	ND	5.2	60
15-Nov-11	ND	ND	ND	ND	5.9	54
17-Jan-12	ND	ND	ND	ND	5.5	55
31-May-12	ND	ND	ND	ND	6	59
29-Aug-12	ND	ND	ND	ND	6.2	60
3-Oct-12	ND	ND	ND	ND	5.9	60
7-Feb-13	ND	ND	ND	ND	6.31	59.3
29-May-13	ND	ND	ND	ND	6.84	56

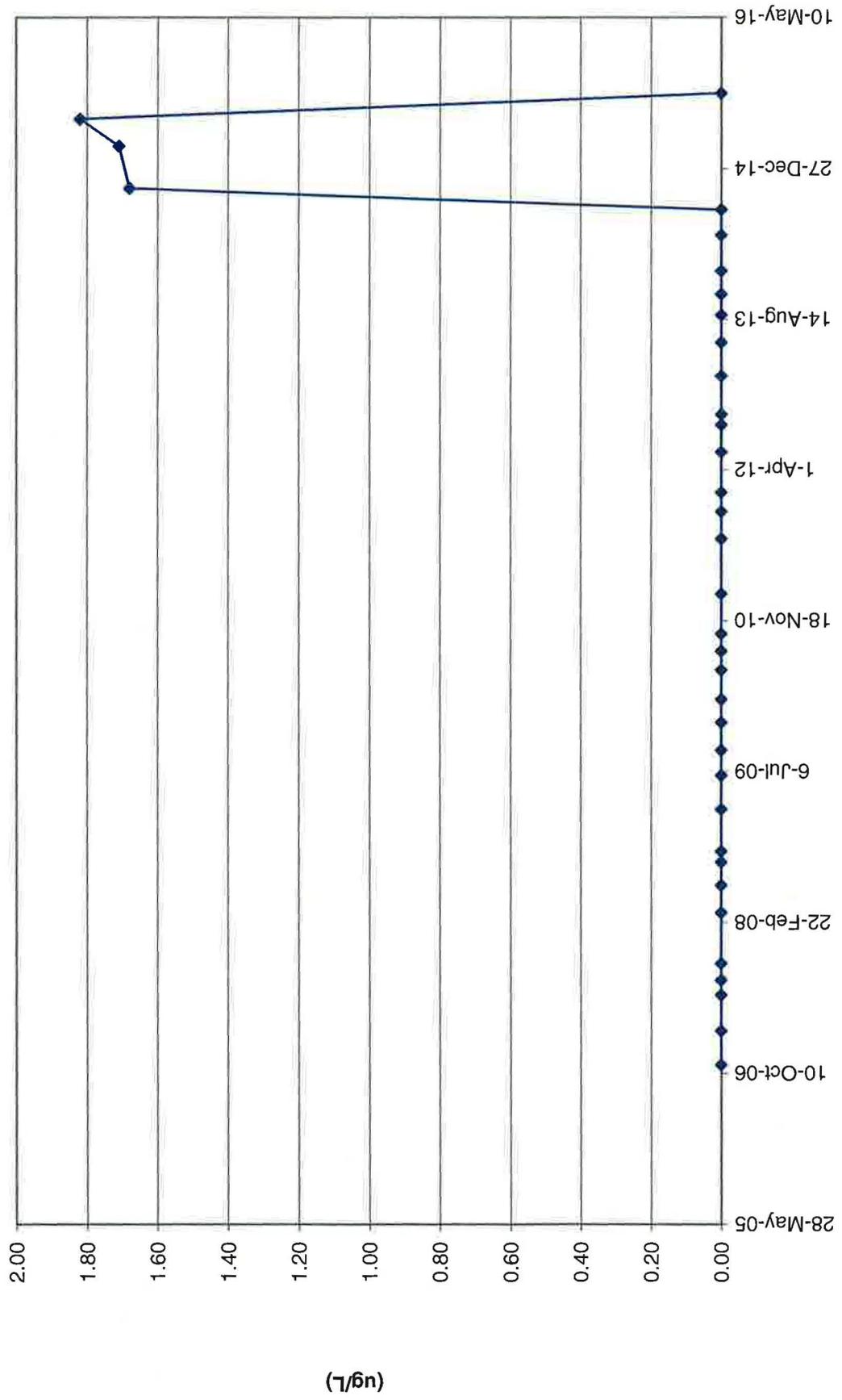
TW4-13	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Aug-13	ND	ND	ND	ND	7.16	63.5
6-Nov-13	ND	ND	ND	ND	6.48	58.5
22-Jan-14	ND	ND	ND	ND	7.09	63.1
21-May-14	ND	ND	ND	ND	5.99	56.1
13-Aug-14	ND	ND	ND	ND	4.8	62
23-Oct-14	ND	ND	ND	ND	6.28	66.1
11-Mar-15	ND	ND	ND	ND	7.09	66.4
10-Jun-15	ND	ND	ND	ND	6.32	70.3
2-Sep-15	ND	ND	ND	ND	5.7	76.5

TW4-13 Chloroform Values



TW4-14	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Nov-06	<1	<1	<1	<1	2.4	37
28-Feb-07	<1	<1	<1	<1	2.3	38
27-Jun-07	<1	<1	<1	<1	1.4	38
15-Aug-07	<1	<1	<1	<1	1.1	36
10-Oct-07	<1	<1	<1	<1	0.8	36
26-Mar-08	<1	<1	<1	<1	0.04	57
25-Jun-08	<1	<1	<1	<1	1.56	35
10-Sep-08	<1	<1	<1	<1	1.34	34
15-Oct-08	<1	<1	<1	<1	0.76	40
4-Mar-09	<1	<1	<1	<1	1.6	35
24-Jun-09	<1	<1	<1	<1	1.4	36
15-Sep-09	<1	<1	<1	<1	1.5	38
16-Dec-09	<1	<1	<1	<1	1.4	34
3-Mar-10	<1	<1	<1	<1	2.5	33
8-Jun-10	<1	<1	<1	<1	2.9	49
10-Aug-10	<1	<1	<1	<1	2.8	35
6-Oct-10	<1	<1	<1	<1	2.9	29
15-Feb-11	ND	ND	ND	ND	1.8	25
16-Aug-11	ND	ND	ND	ND	2.6	33
15-Nov-11	ND	ND	ND	ND	1.7	15
17-Jan-12	ND	ND	ND	ND	1.9	20
31-May-12	ND	ND	ND	ND	3.3	35
29-Aug-12	ND	ND	ND	ND	3.9	37
3-Oct-12	ND	ND	ND	ND	4.2	37
7-Feb-13	ND	ND	ND	ND	4.63	35.2
30-May-13	ND	ND	ND	ND	4.37	38.6
29-Aug-13	ND	ND	ND	ND	4.51	37.6
6-Nov-13	ND	ND	ND	ND	4.81	36.5
22-Jan-14	ND	ND	ND	ND	5.92	35.5
21-May-14	ND	ND	ND	ND	4.87	32.5
13-Aug-14	ND	ND	ND	ND	4.1	38
23-Oct-14	1.68	ND	ND	ND	5.22	38.9
12-Mar-15	1.71	ND	ND	ND	5.22	40.1
10-Jun-15	1.82	ND	ND	ND	3.55	41.8
3-Sep-15	ND	ND	ND	ND	2.77	42.4

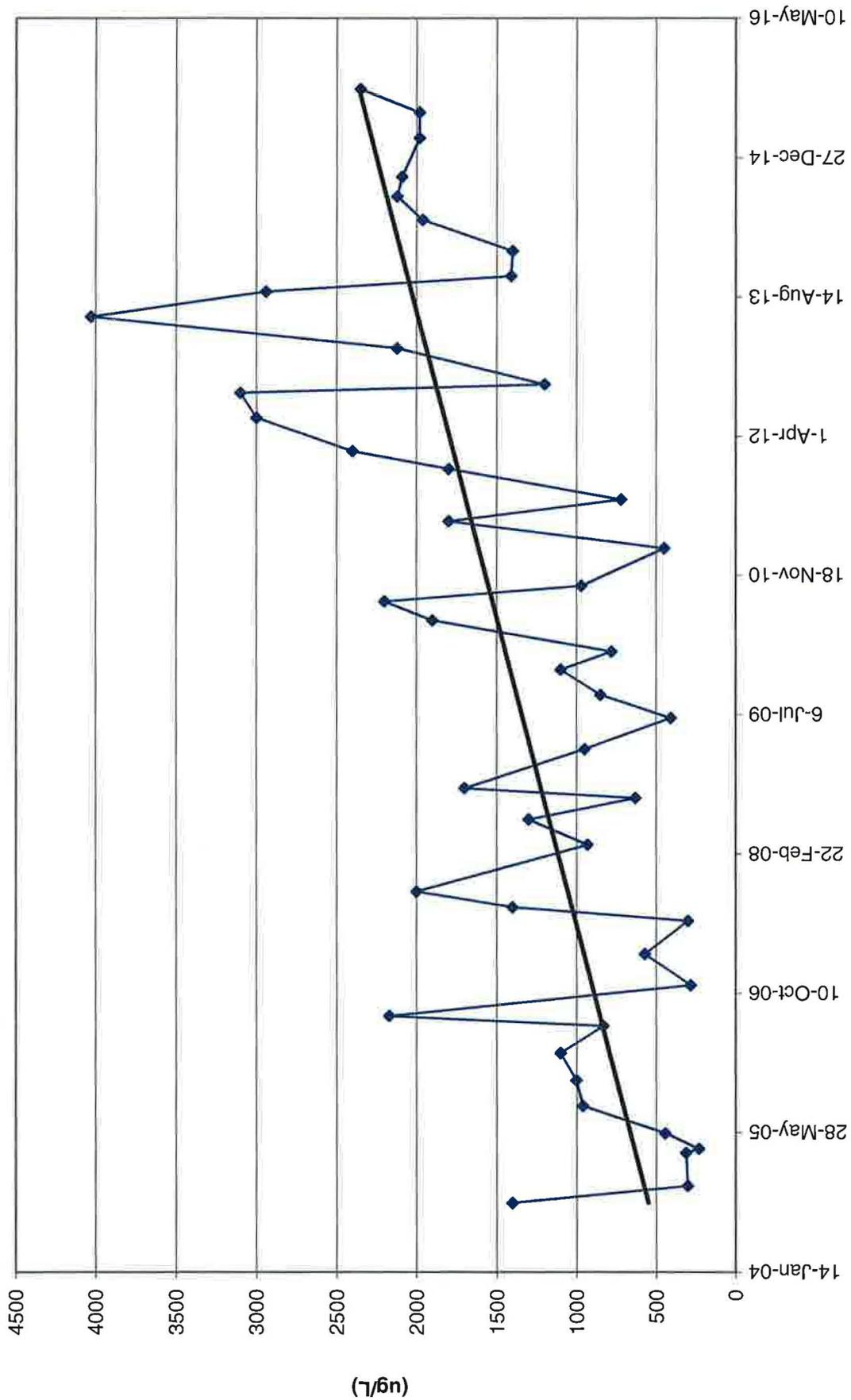
TW4-14 Chloroform Values



MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	3				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	7800				14.5	
15-Aug-03	7400				16.8	
12-Sep-03	2500				2.7	
25-Sep-03	2600				2.5	
29-Oct-03	3100				3.1	
8-Nov-03	3000				2.8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	1400				0.53	
17-Nov-04	300				0.2	
16-Mar-05	310				0.3	
30-Mar-05	230				0.2	
25-May-05	442	NA	NA	NA	0.2	NA
31-Aug-05	960	<5	5.4	<5	0.2	NA
1-Dec-05	1000	<50	<50	<50	0.3	NA
9-Mar-06	1100	<50	<50	<50	0.2	52
14-Jun-06	830	<50	<50	<50	0.2	52
20-Jul-06	2170	<50	<50	<50	1.4	65
8-Nov-06	282	<1	<1	2.8	0.3	54
28-Feb-07	570	<1	<1	5.5	0.5	56
27-Jun-07	300	<1	<1	13	0.4	49
15-Aug-07	1400	<1	<1	36	1	57
10-Oct-07	2000	<1	<1	14	0.6	57
26-Mar-08	930	<1	<1	40	0.1	49
25-Jun-08	1300	<1	<1	53	0.56	57
10-Sep-08	630	<1	<1	24	0.24	44
15-Oct-08	1700	<1	<1	100	0.65	64
4-Mar-09	950	<1	<1	51	0.4	49
24-Jun-09	410	<1	<1	12	0.2	48
15-Sep-09	850	<1	<1	30	0.1	46
14-Dec-09	1100	<1	<1	40	2.3	60
17-Feb-10	780	<1	<1	19	0.2	57
9-Jun-10	1900	<1	<1	28	1.1	58
16-Aug-10	2200	<1	<1	21	0.6	49
11-Oct-10	970	<1	<1	6.5	0.7	65
23-Feb-11	450	ND	ND	3.6	0.5	57
31-May-11	1800	ND	ND	1.3	0.4	88
17-Aug-11	720	ND	ND	7.2	0.9	58
5-Dec-11	1800	ND	ND	2.9	2	69
7-Feb-12	2400	ND	ND	16	1.7	98

MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-12	3000	ND	ND	21	2.5	73
4-Sep-12	3100	ND	ND	31	2.6	73
4-Oct-12	1200	ND	ND	4	1.8	68
11-Feb-13	2120	ND	ND	9.34	2.27	81.9
5-Jun-13	4030	ND	ND	52.4	2.11	77.9
3-Sep-13	2940	ND	ND	33.2	1.18	60.5
29-Oct-13	1410	ND	ND	4.03	1.38	72.3
27-Jan-14	1400	ND	ND	13.8	0.549	59.4
19-May-14	1960	ND	ND	15.4	0.928	53.4
11-Aug-14	2120	ND	8.7	26	0.7	59
21-Oct-14	2090	ND	ND	23.2	0.934	60.1
9-Mar-15	1980	ND	ND	27.4	0.732	56.5
8-Jun-15	1980	ND	ND	11.2	0.419	62
31-Aug-15	2350	ND	4.05	11.6	0.684	69.6

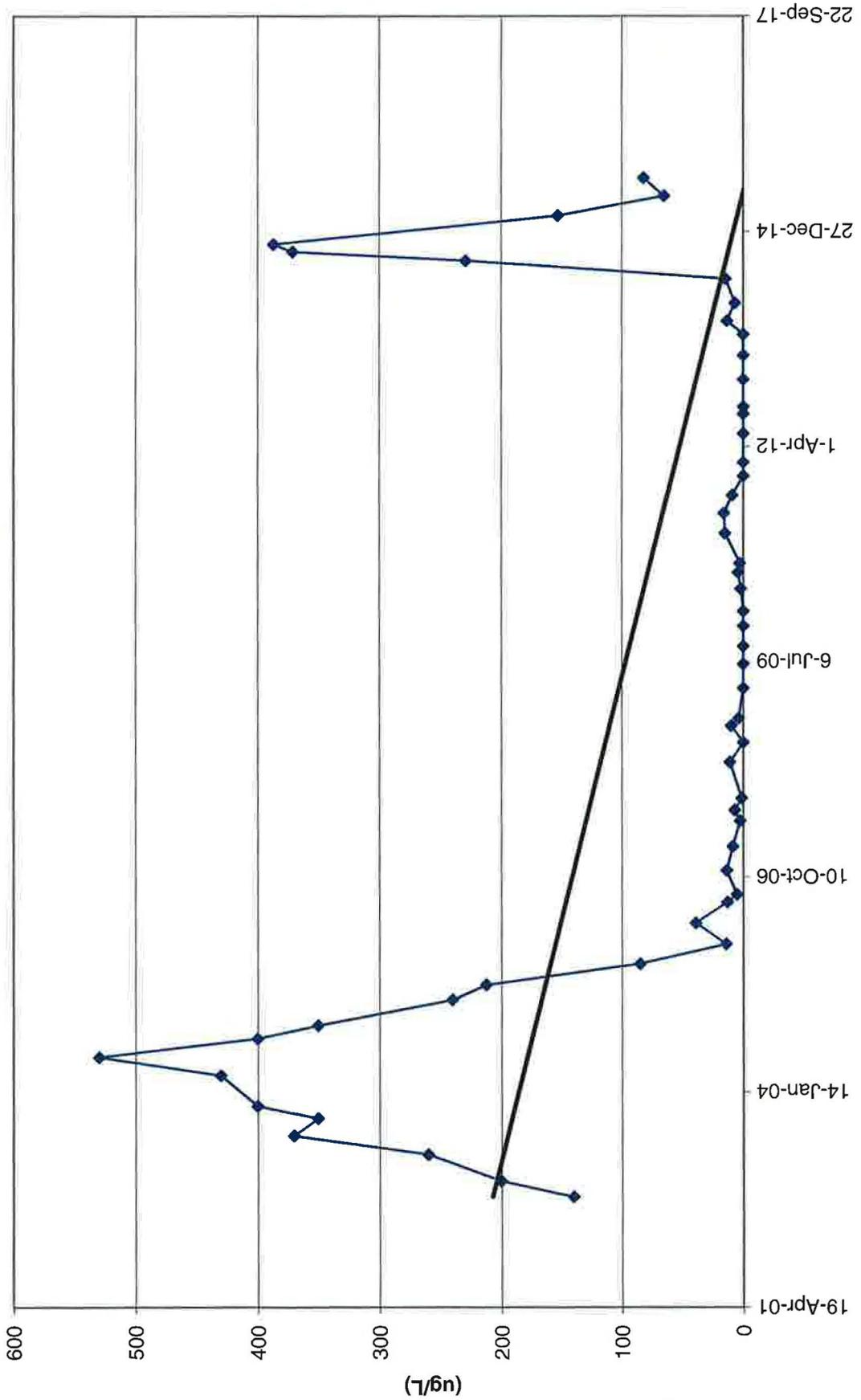
MW-26 Chloroform Values



TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	140				ND	
24-Nov-02	200				ND	
28-Mar-03	260				ND	
23-Jun-03	370				ND	
12-Sep-03	350				ND	
8-Nov-03	400				ND	
29-Mar-04	430				ND	
22-Jun-04	530				ND	
17-Sep-04	400				ND	
17-Nov-04	350				ND	
16-Mar-05	240				ND	
25-May-05	212	NA	NA	NA	<0.1	NA
31-Aug-05	85	<1	3.2	43	<0.1	NA
1-Dec-05	14	<2.5	2.6	5.9	1.4	NA
9-Mar-06	39.0	<1	1.1	21	3	60
14-Jun-06	13.0	<1	2.4	8.9	1.9	55
20-Jul-06	5.2	<1	<1	2.7	2.7	60
8-Nov-06	13.6	<1	<1	9.2	5.6	62
28-Feb-07	8.7	<1	<1	6.5	12.3	79
27-Jun-07	2.6	<1	<1	1.8	9.9	75
15-Aug-07	7.1	<1	<1	5.1	5.4	66
10-Oct-07	1.4	<1	<1	<1	4.4	69
26-Mar-08	11.0	<1	<1	26	ND	52
25-Jun-08	<1	<1	<1	<1	1.46	58
10-Sep-08	10	<1	<1	14	10.5	71
15-Oct-08	3.9	<1	<1	6.6	9.82	89
4-Mar-09	<1	<1	<1	<1	9.6	78
24-Jun-09	<1	<1	<1	<1	8.9	76
15-Sep-09	<1	<1	<1	<1	8.8	79
17-Dec-09	<1	<1	<1	<1	5.2	76
24-Feb-10	<1	<1	<1	<1	4.2	77
9-Jun-10	2.1	<1	<1	<1	4.7	64
24-Aug-10	4.3	<1	<1	<1	4.6	72
6-Oct-10	3.0	<1	<1	<1	3.3	72
22-Feb-11	15.0	ND	ND	ND	7	86
26-May-11	16.0	ND	ND	ND	5	81
17-Aug-11	9.2	ND	ND	ND	1.7	63
16-Nov-11	ND	ND	ND	1.4	0.4	38
18-Jan-12	ND	ND	ND	1.7	0.1	48
31-May-12	ND	ND	ND	ND	ND	53
30-Aug-12	ND	ND	ND	ND	ND	59
3-Oct-12	ND	ND	ND	3	ND	53
7-Feb-13	ND	ND	ND	3	ND	58.1

TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
30-May-13	ND	ND	ND	4.21	ND	49.8
5-Sep-13	ND	ND	ND	ND	ND	54.4
7-Nov-13	13.4	ND	ND	ND	1.37	56.6
29-Jan-14	6.9	ND	ND	ND	3.16	66.8
22-May-14	14.6	ND	ND	ND	4.94	80.7
14-Aug-14	229.0	ND	ND	ND	5.1	80
24-Sep-14	371.0	ND	ND	ND	N/A	N/A
29-Oct-14	387.0	ND	ND	ND	8.40	92.1
12-Mar-15	153.0	ND	ND	ND	4.30	65.3
11-Jun-15	65.3	ND	ND	ND	1.06	61
3-Sep-15	82.0	ND	ND	ND	1.18	65.8

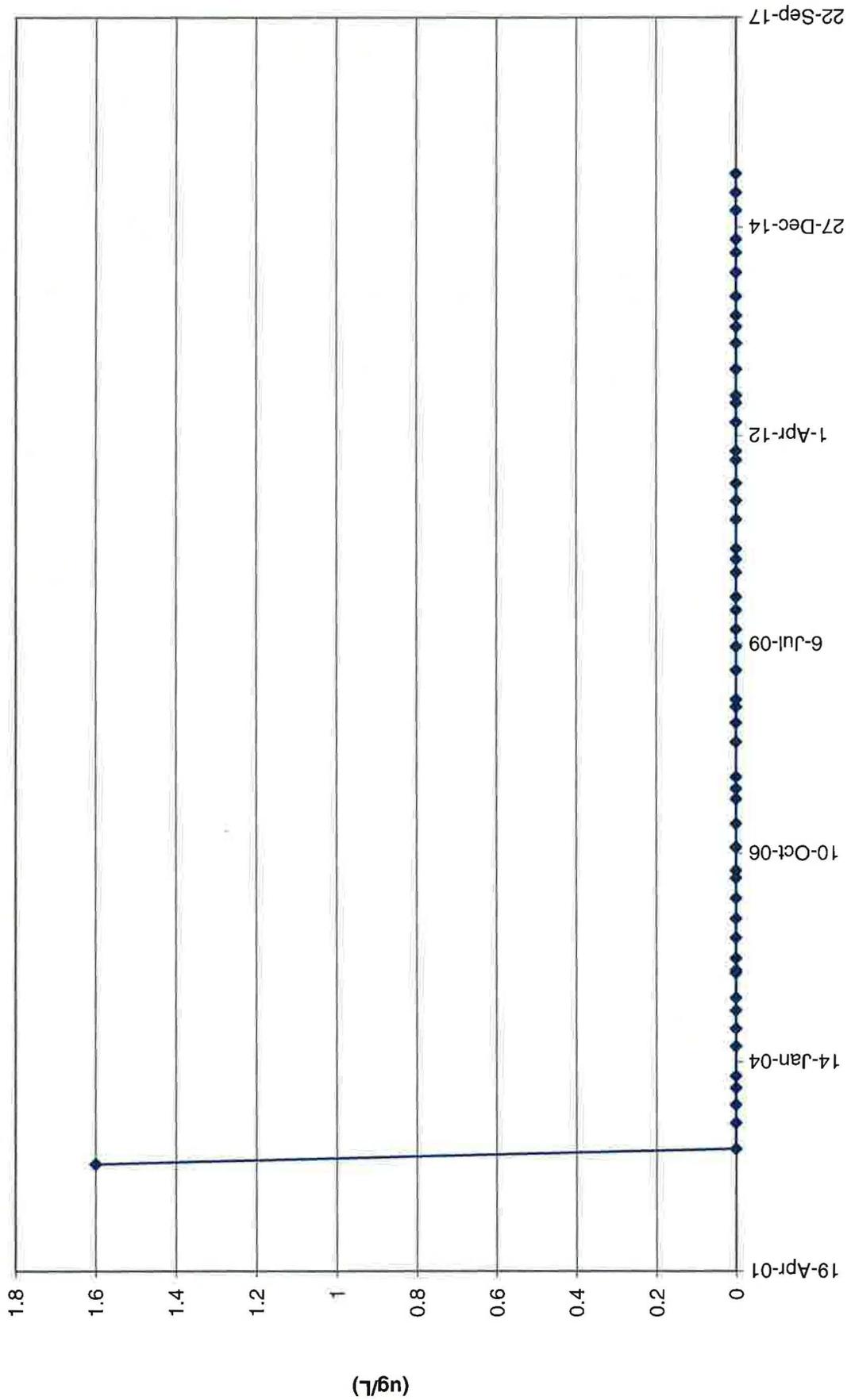
TW4-16 Chloroform Values



MW-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	1.6				ND	
24-Nov-02	ND				ND	
28-Mar-03	ND				ND	
23-Jun-03	ND				ND	
12-Sep-03	ND				ND	
8-Nov-03	ND				ND	
29-Mar-04	ND				ND	
22-Jun-04	ND				ND	
17-Sep-04	ND				ND	
17-Nov-04	ND				ND	
16-Mar-05	ND				ND	
30-Mar-05	ND				ND	
25-May-05	<1	NA	NA	NA	<0.1	NA
31-Aug-05	<1	<1	3.2	<1	<0.1	NA
1-Dec-05	<1	<1	<1	<1	<0.1	NA
9-Mar-06	<1	<1	<1	<1	<0.1	32
14-Jun-06	<1	<1	3.5	<1	<0.1	30
20-Jul-06	<1	<1	1.8	<1	<0.1	32
8-Nov-06	<1	<1	1.5	<1	<0.1	31
28-Feb-07	<1	<1	<1	<1	<0.1	32
27-Jun-07	<1	<1	<1	<1	<0.1	32
15-Aug-07	<1	<1	<1	<1	<0.1	31
10-Oct-07	<1	<1	<1	<1	<0.1	32
26-Mar-08	<1	<1	<1	<1	<0.1	31
25-Jun-08	<1	<1	<1	<1	<0.05	29
10-Sep-08	<1	<1	<1	<1	<0.05	30
15-Oct-08	<1	<1	<1	<1	<0.05	26
4-Mar-09	<1	<1	<1	<1	<0.1	30
24-Jun-09	<1	<1	<1	<1	<0.1	31
15-Sep-09	<1	<1	<1	<1	<0.1	33
16-Dec-09	<1	<1	<1	<1	<0.1	34
17-Feb-10	<1	<1	<1	<1	<0.1	38
14-Jun-10	<1	<1	<1	<1	<0.1	32
16-Aug-10	<1	<1	<1	<1	<0.1	28
6-Oct-10	<1	<1	<1	<1	<0.1	24
23-Feb-11	ND	ND	ND	ND	ND	40
25-May-11	ND	ND	ND	ND	ND	31
16-Aug-11	ND	ND	ND	ND	ND	33
6-Dec-11	ND	ND	ND	ND	ND	32
18-Jan-12	ND	ND	ND	ND	ND	21
4-Jun-12	ND	ND	ND	ND	ND	32
5-Sep-12	ND	ND	ND	ND	ND	33
10-Oct-12	ND	ND	ND	ND	ND	35

MW-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Feb-13	ND	ND	ND	ND	ND	34.3
18-Jun-13	ND	ND	ND	ND	ND	34.9
4-Sep-13	ND	ND	ND	ND	ND	33
29-Oct-13	ND	ND	ND	ND	ND	35.7
29-Jan-14	ND	ND	ND	ND	ND	34
23-May-14	ND	ND	ND	ND	ND	39.7
26-Aug-14	ND	ND	ND	ND	ND	34
29-Oct-14	ND	ND	ND	ND	ND	34.9
17-Mar-15	ND	ND	ND	ND	ND	36.3
11-Jun-15	ND	ND	ND	ND	ND	35.8
9-Sep-15	ND	ND	ND	ND	ND	37.7

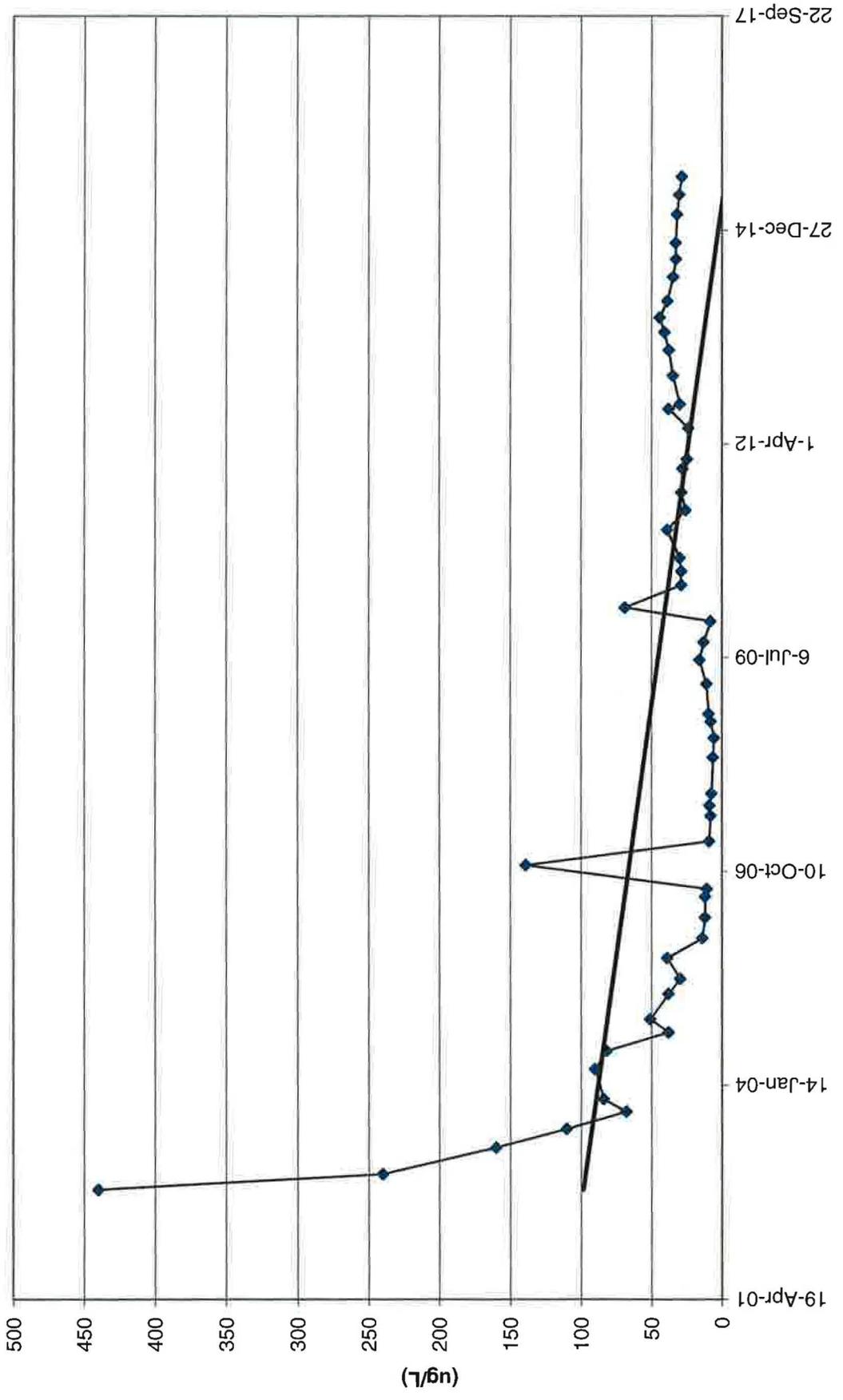
MW-32 Chloroform Values



TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	440				1.49	
24-Nov-02	240				13.3	
28-Mar-03	160				13.1	
23-Jun-03	110				19	
12-Sep-03	68.0				19.9	
9-Nov-03	84.0				20.7	
29-Mar-04	90.0				14	
22-Jun-04	82.0				12.2	
17-Sep-04	38.0				14.5	
17-Nov-04	51.0				17.3	
16-Mar-05	38.0				14.1	
25-May-05	29.8	NA	NA	NA	12.9	NA
31-Aug-05	39	<1	2.8	<1	13.3	NA
1-Dec-05	14	<1	1.1	<1	7.3	NA
9-Mar-06	12.0	<1	1.1	<1	5.9	5.9
14-Jun-06	12.0	<1	1.6	<1	4.7	35
20-Jul-06	10.8	<1	2.7	<1	6.1	35
8-Nov-06	139	<1	<1	<1	8.7	34
28-Feb-07	9.2	<1	<1	<1	5.1	30
27-Jun-07	8.0	<1	<1	<1	4.9	28
15-Aug-07	8.9	<1	<1	<1	5	32
10-Oct-07	7.4	<1	<1	<1	4.4	27
26-Mar-08	6.4	<1	<1	<1	0.7	23
25-Jun-08	5.7	<1	<1	<1	4.55	23
10-Sep-08	8.0	<1	<1	<1	4.68	26
15-Oct-08	9.4	<1	<1	<1	5,15	30
4-Mar-09	11.0	<1	<1	<1	5.2	29
24-Jun-09	16.0	<1	<1	<1	6.2	30
15-Sep-09	13.0	<1	<1	<1	5.9	26
22-Dec-09	8.2	<1	<1	<1	5.4	30
24-Feb-10	69.0	<1	<1	<1	5.1	41
9-Jun-10	29.0	<1	<1	<1	9	35
12-Aug-10	29.0	<1	<1	<1	9	37
13-Oct-10	30.0	<1	<1	<1	10	50
22-Feb-11	39.0	ND	ND	ND	10	52
26-May-11	26.0	ND	ND	ND	9	36
17-Aug-11	29.0	ND	ND	ND	4.6	23
7-Dec-11	28.0	ND	ND	ND	6.3	23
19-Jan-12	25.0	ND	ND	ND	4.4	18
13-Jun-12	24.0	ND	ND	ND	6.6	30
11-Sep-12	38.0	ND	ND	ND	6.6	26
3-Oct-12	30.0	ND	ND	ND	6	27
13-Feb-13	34.9	ND	ND	ND	5.58	23.1

TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Jun-13	37.9	ND	ND	ND	8.86	22.9
5-Sep-13	41.0	ND	ND	ND	12.1	36.2
13-Nov-13	44.3	ND	ND	ND	14.2	37.1
30-Jan-14	38.9	ND	ND	ND	12.8	40.9
22-May-14	34.8	ND	ND	ND	12.2	47
14-Aug-14	32.8	ND	ND	ND	9.8	49
28-Oct-14	33.0	ND	ND	ND	11.1	40.8
12-Mar-15	32.0	ND	ND	ND	11.7	41.6
11-Jun-15	30.5	ND	ND	ND	9.69	43.5
3-Sep-15	28.7	ND	ND	ND	15.7	47.6

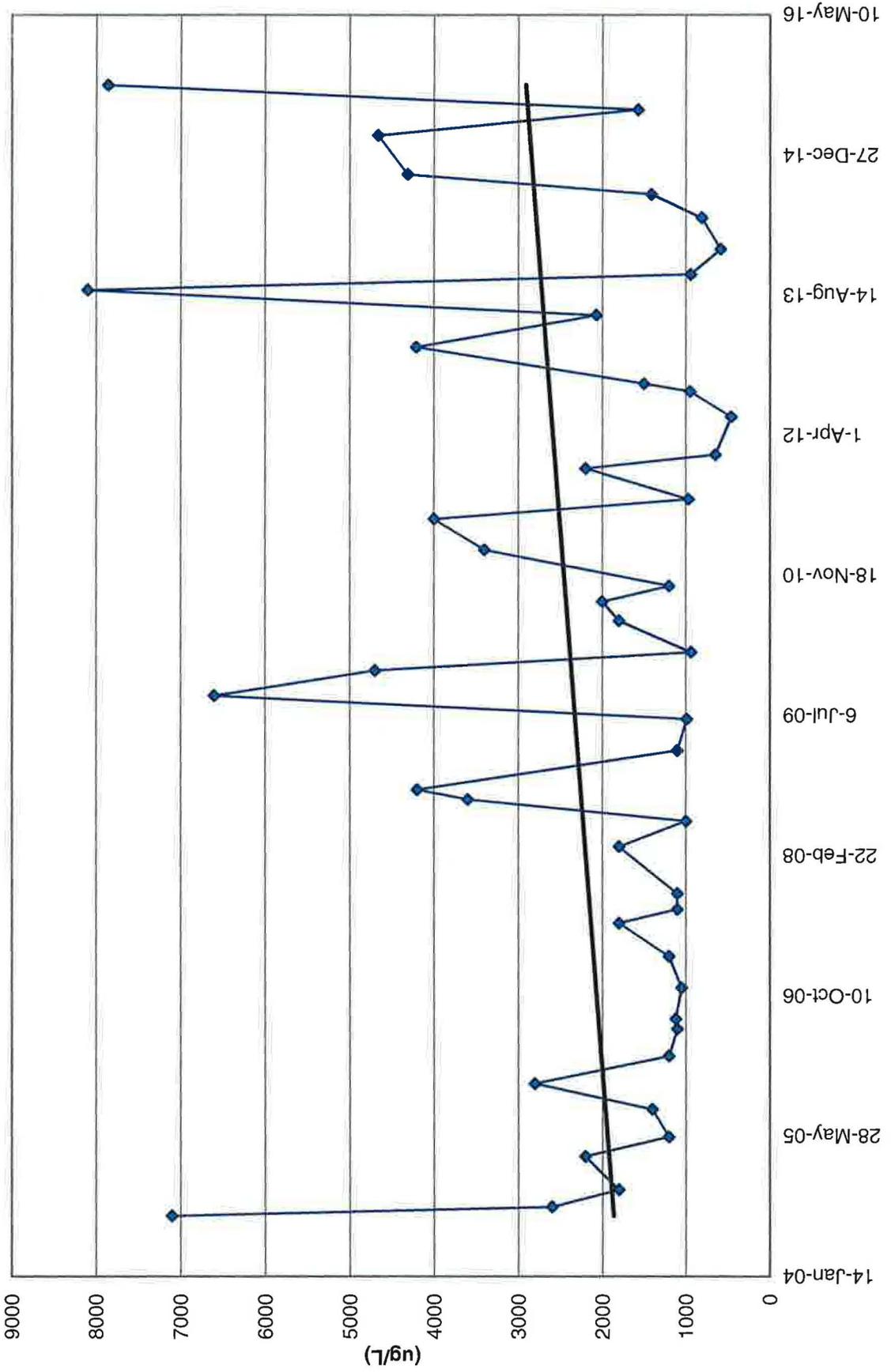
TW4-18 Chloroform Values



TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	7700				47.6	
24-Nov-02	5400				42	
28-Mar-03	4200				61.4	
15-May-03	4700				NA	
23-Jun-03	4500				11.4	
15-Jul-03	2400				6.8	
15-Aug-03	2600				4	
12-Sep-03	2500				5.7	
25-Sep-03	4600				9.2	
29-Oct-03	4600				7.7	
9-Nov-03	2600				4.8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
16-Aug-04	7100				9.91	
17-Sep-04	2600				4.5	
17-Nov-04	1800				3.6	
16-Mar-05	2200				5.3	
25-May-05	1200				5.7	
31-Aug-05	1400	<5	<5	<5	4.6	NA
1-Dec-05	2800	<50	<50	<50	<0.1	NA
9-Mar-06	1200	<50	<50	<50	4	86
14-Jun-06	1100	<50	<50	<50	5.2	116
20-Jul-06	1120	<50	<50	<50	4.3	123
8-Nov-06	1050	1.6	2.6	<1	4.6	134
28-Feb-07	1200	1.3	<1	<1	4	133
27-Jun-07	1800				2.3	
15-Aug-07	1100	1.9	<1	<1	4.1	129
10-Oct-07	1100	1.9	<1	<1	4	132
26-Mar-08	1800	2.9	<1	<1	2.2	131
25-Jun-08	1000	1	<1	<1	2.81	128
10-Sep-08	3600	8.6	<1	<1	36.2	113
15-Oct-08	4200	12	<1	<1	47.8	124
4-Mar-09	1100	1.2	<1	<1	3.2	127
24-Jun-09	990	1.2	<1	<1	2.4	132
15-Sep-09	6600	15	<1	<1	0.1	43
14-Dec-09	4700	16	<1	<1	26.7	124
17-Feb-10	940	1.3	<1	<1	2	144
9-Jun-10	1800	4.2	<1	<1	4.4	132
16-Aug-10	2000	4.9	<1	<1	5.9	142
11-Oct-10	1200	1.3	<1	<1	2.7	146
17-Feb-11	3400	17	ND	ND	17	135
7-Jun-11	4000	8.3	ND	ND	12	148
17-Aug-11	970	2.1	ND	ND	3	148

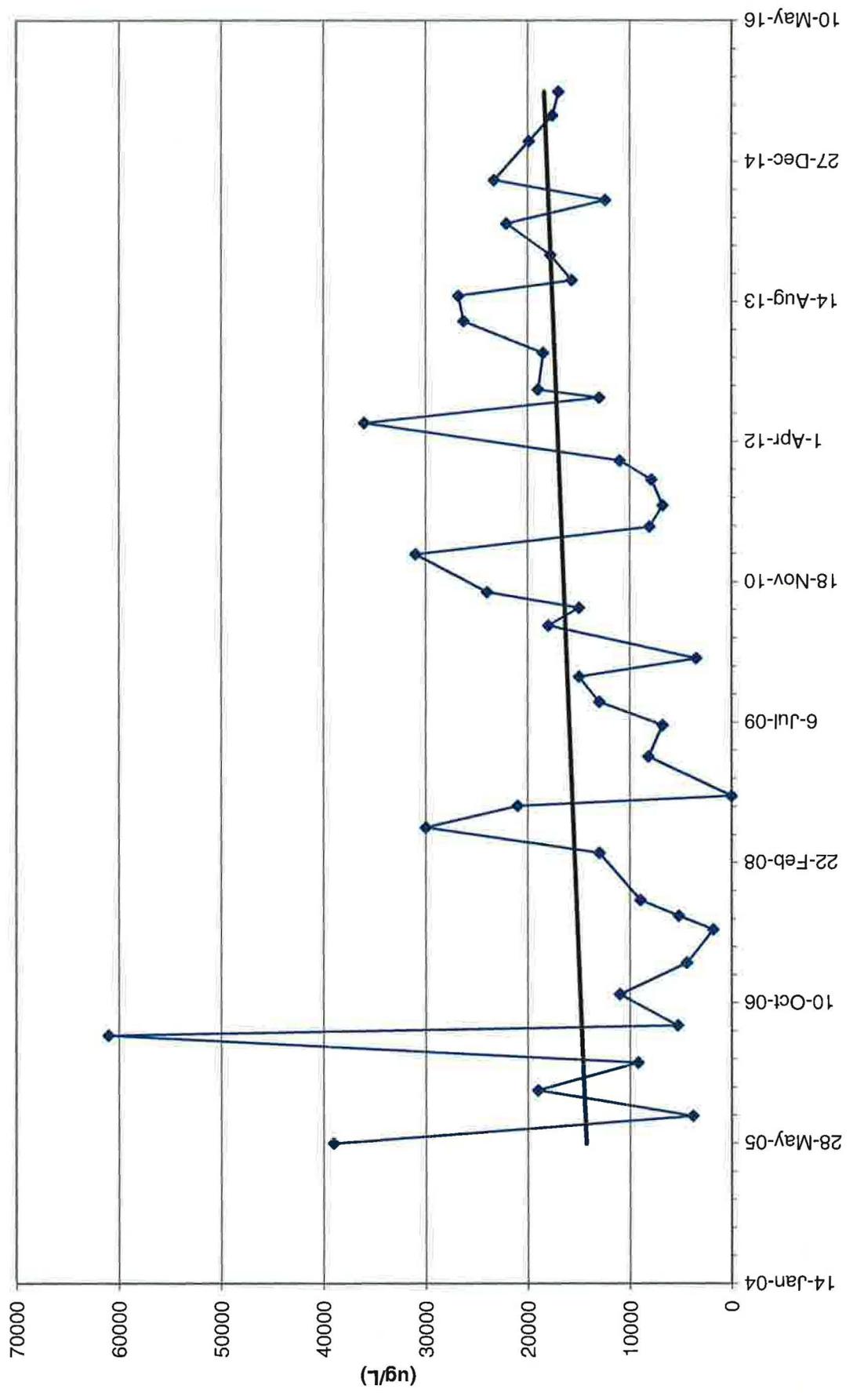
TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
5-Dec-11	2200	5.4	ND	ND	5	148
23-Jan-12	650	1.5	ND	ND	0.6	138
6-Jun-12	460	1.1	ND	ND	2.4	149
5-Sep-12	950	3.5	ND	ND	2.5	149
3-Oct-12	1500	4	ND	ND	4.1	150
11-Feb-13	4210	5.15	ND	ND	7.99	164
5-Jun-13	2070	5.15	ND	ND	2.95	148
3-Sep-13	8100	20.7	ND	ND	17.6	179
29-Oct-13	942	6.42	ND	ND	4.7	134
27-Jan-14	586	4.05	ND	ND	1.62	134
19-May-14	810	5.51	ND	ND	1.34	152
11-Aug-14	1410	1.9	8.3	ND	1.6	140
21-Oct-14	4310	4.8	ND	ND	4.72	130
9-Mar-15	4660	8.92	ND	ND	8.56	238
8-Jun-15	1570	2.62	ND	ND	0.916	180
4-Sep-15	7860	7.78	ND	ND	11.6	326

TW4-19 Chloroform Values



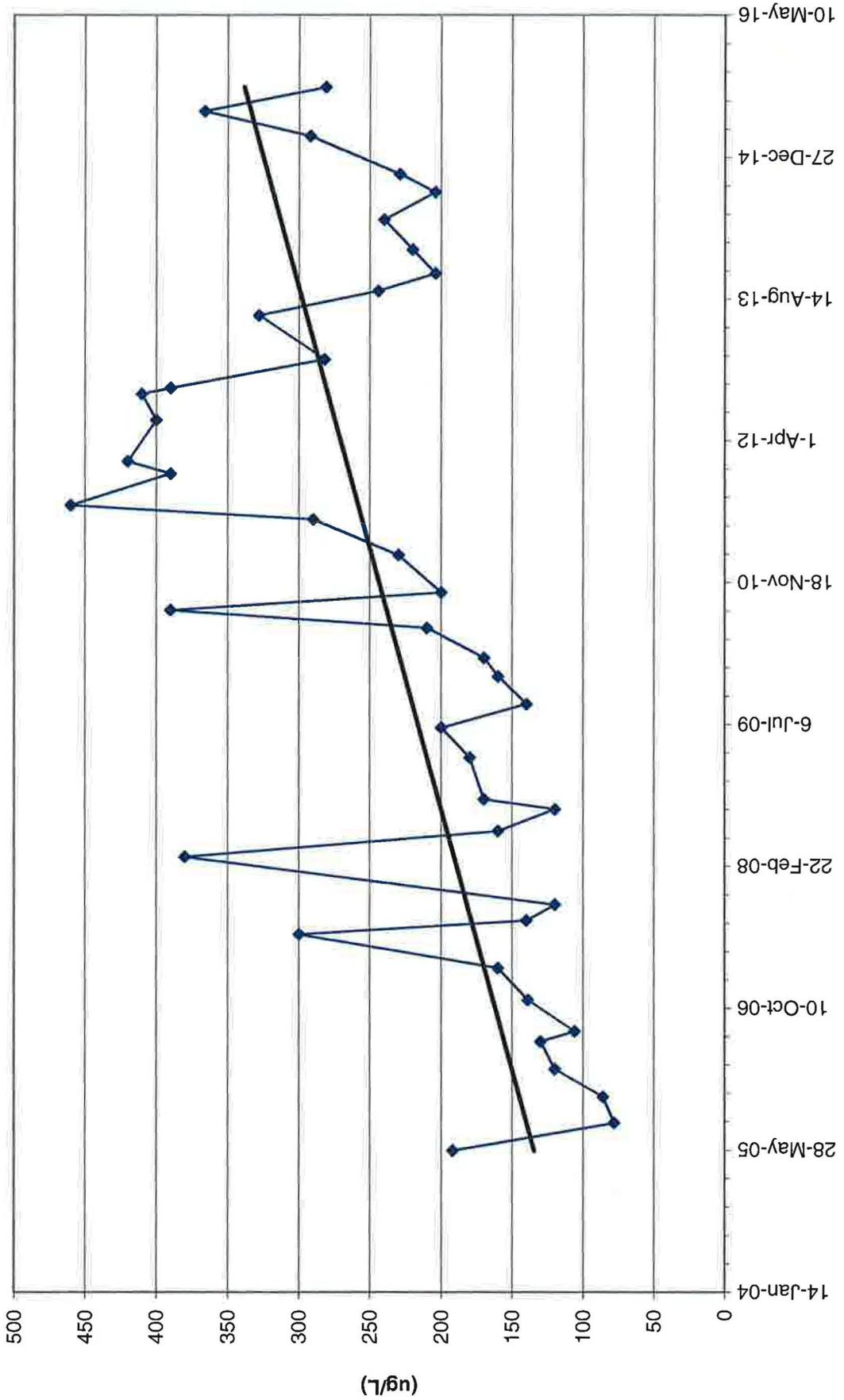
TW4-20	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	39000	NA	NA	NA	10.1	NA
31-Aug-05	3800	<10	<10	<10	2.9	NA
1-Dec-05	19000	<250	<250	<250	1.8	NA
9-Mar-06	9200	<500	<500	<500	3.8	120
14-Jun-06	61000	<500	<500	<500	9.4	235
20-Jul-06	5300	<1000	<1000	<1000	2.9	134
8-Nov-06	11000	7.1	1.9	2.2	3.5	124
28-Feb-07	4400	3.1	<1	1.1	4.2	124
27-Jun-07	1800	2.2	<1	<1	2.3	112
15-Aug-07	5200	3.5	<1	1.8	2.1	117
10-Oct-07	9000	6.8	<1	1.9	5.6	170
26-Mar-08	13000	9	<1	1.5	0.9	132
25-Jun-08	30000	13	<1	1.2	7.96	191
10-Sep-08	21000	15	<1	3.7	4.44	156
15-Oct-08	NA	NA	NA	NA	5.51	166
4-Mar-09	8200	5.7	<1	5.2	5.1	164
24-Jun-09	6800	4.9	<2	4.2	2.9	164
15-Sep-09	13000	8.4	<2	4.4	3.3	153
14-Dec-09	15000	14	<1	3	5.3	187
17-Feb-10	3500	2.7	<1	3.2	2	179
14-Jun-10	18000	11	<1	3.7	5.6	200
16-Aug-10	15000	12	<1	2.2	5.3	196
11-Oct-10	24000	20	<1	5.5	4.6	203
23-Feb-11	31000	27	ND	19	4.4	220
1-Jun-11	8100	10	ND	2.1	4.8	177
17-Aug-11	6800	7.3	ND	3.1	6.5	207
16-Nov-11	7900	7.2	ND	2.5	4.2	186
23-Jan-12	11000	10	ND	1.3	7.9	207
6-Jun-12	36000	33	ND	ND	11	262
4-Sep-12	13000	26	ND	ND	10.8	289
3-Oct-12	19000	22	ND	ND	11	302
11-Feb-13	18500	19.6	ND	1.21	9.07	252
5-Jun-13	26300	32.5	ND	1.13	9.76	250
3-Sep-13	26800	25.7	ND	2.14	8.65	260
29-Oct-13	15700	17.3	ND	1.37	9.64	272
27-Jan-14	17800	18.4	ND	2.04	7.56	254
19-May-14	22100	22.1	2.31	3.98	5.95	269
11-Aug-14	12400	14.1	55.2	2.2	4.3	299
21-Oct-14	23300	18.5	4.04	2.38	7.67	292
9-Mar-15	19900	20.8	4.85	1.38	9.8	290
8-Jun-15	17600	16.2	13.4	1.73	5.76	296
31-Aug-15	17000	15.1	12.3	ND	9.27	365

TW4-20 Chloroform Values



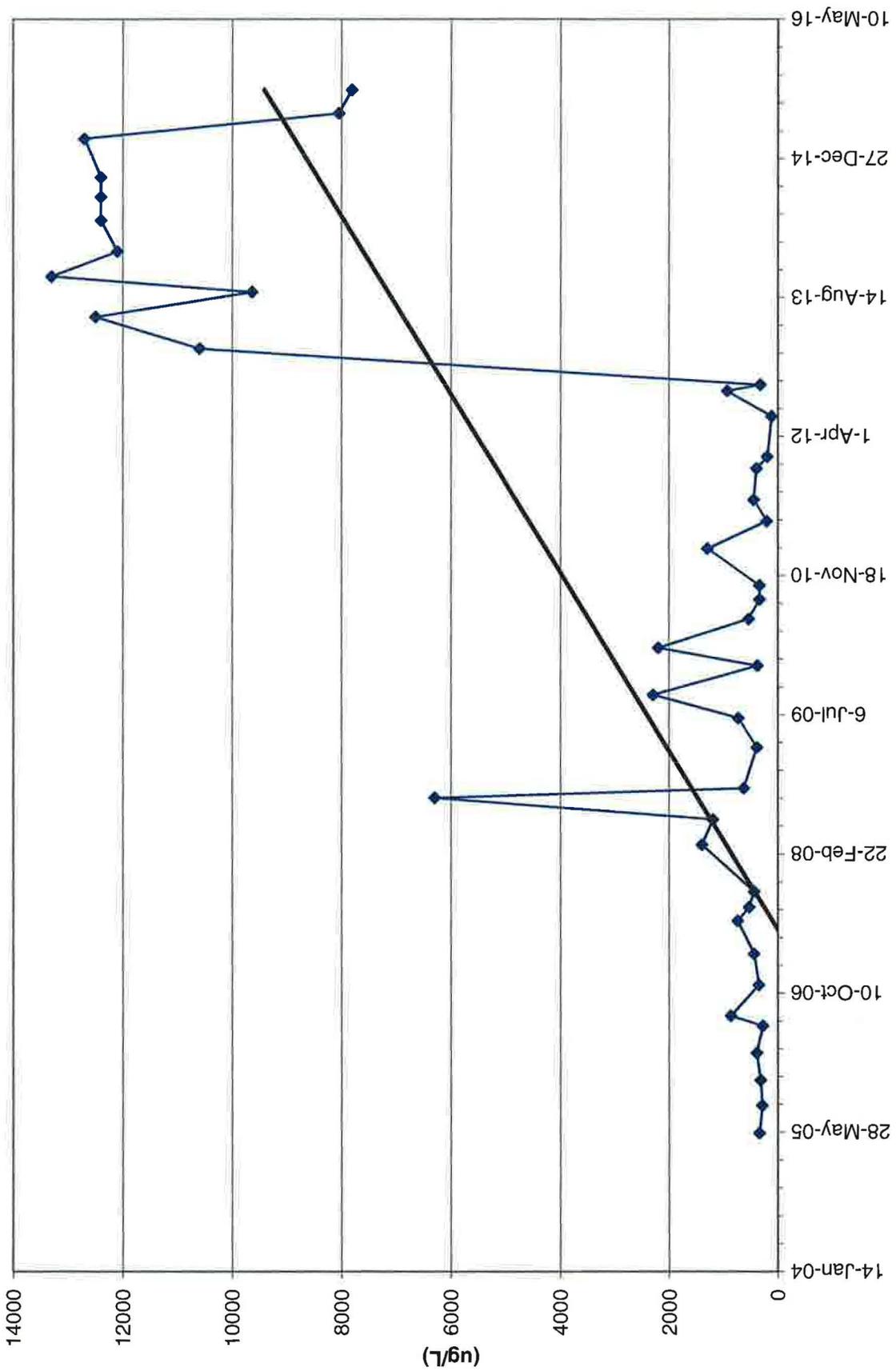
TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	192	NA	NA	NA	14.6	NA
31-Aug-05	78	<5	<5	<5	10.1	NA
1-Dec-05	86	<1	1.0	<1	9.6	NA
9-Mar-06	120	<2.5	<2.5	<2.5	8.5	347
14-Jun-06	130	<2.5	<2.5	<2.5	10.2	318
20-Jul-06	106	<2.5	<2.5	<2.5	8.9	357
8-Nov-06	139	2	<1	<1	8.7	296
28-Feb-07	160	1.8	<1	<1	8.7	306
27-Jun-07	300	5.8	<1	<1	8.6	327
15-Aug-07	140	<1	<1	<1	8.6	300
10-Oct-07	120	<1	<1	<1	8.3	288
26-Mar-08	380	7	<1	<1	14.3	331
25-Jun-08	160	1.7	<1	<1	8.81	271
10-Sep-08	120	1.6	<1	<1	7.57	244
15-Oct-08	170	2	<1	<2	8.00	284
11-Mar-09	180	<1	<1	<1	8.3	279
24-Jun-09	200	<1	<1	<1	8.1	291
15-Sep-09	140	<1	<1	<1	9.2	281
22-Dec-09	160	<1	<1	<1	8.4	256
25-Feb-10	170	<1	<1	<1	8.4	228
10-Jun-10	210	1.2	<1	<1	12	266
12-Aug-10	390	9.2	<1	<1	14	278
13-Oct-10	200	1.2	<1	<1	7	210
22-Feb-11	230	1.2	ND	ND	9	303
28-Jun-11	290	4.8	ND	ND	12	290
17-Aug-11	460	6.3	ND	ND	14	287
7-Dec-11	390	6.7	ND	ND	13	276
19-Jan-12	420	6.4	ND	ND	15	228
13-Jun-12	400	5.4	ND	ND	11	285
13-Sep-12	410	6	ND	ND	13	142
4-Oct-12	390	7	ND	ND	14	270
13-Jan-13	282	5.25	ND	ND	11.8	221
18-Jun-13	328	3.49	ND	ND	13.8	243
12-Sep-13	244	2.13	ND	ND	10.3	207
13-Nov-13	204	ND	ND	ND	9	206
5-Feb-14	220	6.23	ND	ND	11.4	200
22-May-14	240	4.73	ND	ND	11.5	243
27-Aug-14	204	ND	ND	ND	7.1	230
29-Oct-14	229	1.04	ND	ND	10	252
12-Mar-15	292	1.75	ND	ND	10.9	255
8-Jun-15	366	1.92	ND	ND	13.1	494
31-Aug-15	281	ND	ND	ND	14.7	499

TW4-21 Chloroform Values



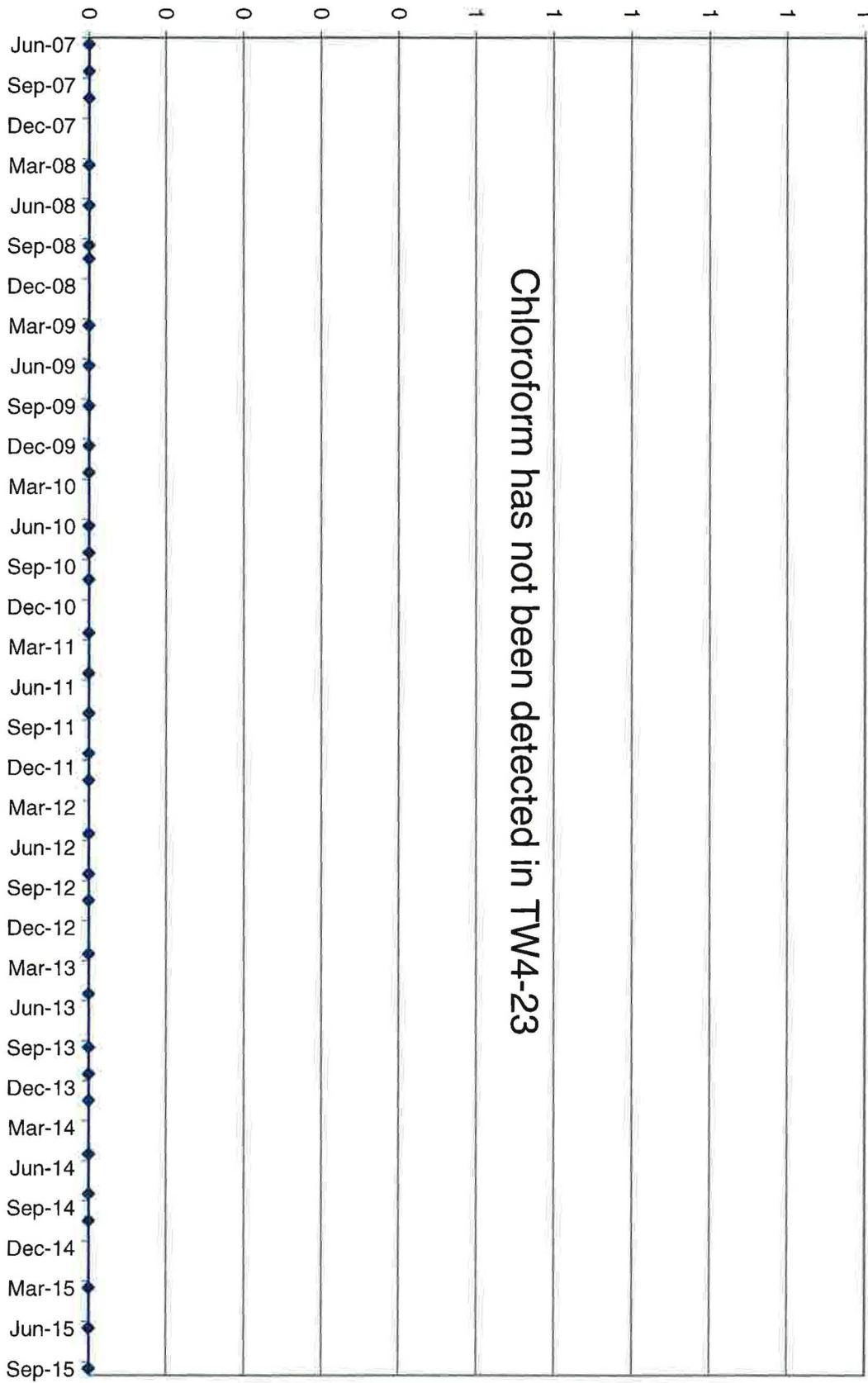
TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	340	NA	NA	NA	18.2	NA
31-Aug-05	290	<5	<5	<5	15.7	NA
1-Dec-05	320	<5	<5	<5	15.1	NA
9-Mar-06	390	<10	<10	<10	15.3	236
14-Jun-06	280	<10	<10	<10	14.3	221
20-Jul-06	864	<10	<10	<10	14.5	221
8-Nov-06	350	<1	1.6	<1	15.9	236
28-Feb-07	440	<1	<1	<1	20.9	347
27-Jun-07	740	<1	<1	<1	19.3	273
15-Aug-07	530	<1	<1	<1	19.3	259
10-Oct-07	440	<1	<1	<1	18.8	238
26-Mar-08	1400	<1	<1	<1	39.1	519
25-Jun-08	1200	<1	<1	<1	41.9	271
10-Sep-08	6300	1.3	<1	<1	38.7	524
15-Oct-08	630	<2	<2	<2	36.3	539
11-Mar-09	390	<1	<1	<1	20.7	177
24-Jun-09	730	<1	<1	<1	20.6	177
15-Sep-09	2300	<1	<1	<1	40.3	391
29-Dec-09	380	<1	<1	<1	17.8	175
3-Mar-10	2200	<1	<1	<1	36.6	427
15-Jun-10	540	<1	<1	<1	19	134
24-Aug-10	340	<1	<1	<1	15	130
13-Oct-10	340	<1	<1	<1	16	134
23-Feb-11	1300	ND	ND	ND	18	114
1-Jun-11	210	ND	ND	ND	17	138
17-Aug-11	450	ND	ND	ND	15	120
7-Dec-11	400	ND	ND	ND	19	174
19-Jan-12	200	ND	ND	ND	14	36
13-Jun-12	120	ND	ND	ND	12.8	35
12-Sep-12	940	ND	ND	ND	7	121
4-Oct-12	330	ND	ND	ND	14	130
11-Feb-13	10600	3.24	ND	ND	58	635
5-Jun-13	12500	3.35	ND	ND	50.2	586
3-Sep-13	9640	3.25	ND	ND	29.7	487
29-Oct-13	13300	8.09	ND	ND	45.2	501
27-Jan-14	12100	6.06	ND	2.83	54.6	598
19-May-14	12400	6.65	ND	ND	47.2	614
11-Aug-14	12400	1.9	40	ND	41.5	540
21-Oct-14	12400	3.32	1.61	ND	54.9	596
9-Mar-15	12700	3.77	4.31	ND	69.2	675
8-Jun-15	8050	2.42	3.42	ND	47.1	390
31-Aug-15	7810	ND	5.47	ND	64.7	557

TW4-22 Chloroform Values



TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	<0.1	47
15-Aug-07	<1	<1	<1	<1	<0.1	46
10-Oct-07	<1	<1	<1	<1	<0.1	43
26-Mar-08	<1	<1	<1	<1	<0.1	41
25-Jun-08	<1	<1	<1	<1	<0.05	41
10-Sep-08	<1	<1	<1	<1	<0.05	35
15-Oct-08	<2	<2	<2	<2	<0.05	51
4-Mar-09	<1	<1	<1	<1	<0.1	41
24-Jun-09	<1	<1	<1	<1	<0.1	43
15-Sep-09	<1	<1	<1	<1	<0.1	43
16-Dec-09	<1	<1	<1	<1	<0.1	37
24-Feb-10	<1	<1	<1	<1	<0.1	45
8-Jun-10	<1	<1	<1	<1	<0.1	40
10-Aug-10	<1	<1	<1	<1	<0.1	40
5-Oct-10	<1	<1	<1	<1	<0.1	34
16-Feb-11	ND	ND	ND	ND	ND	44
25-May-11	ND	ND	ND	ND	ND	44
16-Aug-11	ND	ND	ND	ND	ND	41
15-Nov-11	ND	ND	ND	ND	ND	43
17-Jan-12	ND	ND	ND	ND	ND	40
31-May-12	ND	ND	ND	ND	ND	44
29-Aug-12	ND	ND	ND	ND	ND	46
3-Oct-12	ND	ND	ND	ND	ND	45
7-Feb-13	ND	ND	ND	ND	ND	43.6
30-May-13	ND	ND	ND	ND	0.116	44.7
5-Sep-13	ND	ND	ND	ND	ND	48.0
7-Nov-13	ND	ND	ND	ND	ND	43.0
23-Jan-14	ND	ND	ND	ND	ND	44.6
21-May-14	ND	ND	ND	ND	ND	42.3
13-Aug-14	ND	ND	ND	ND	ND	46.0
28-Oct-14	ND	ND	ND	ND	ND	46.8
12-Mar-15	ND	ND	ND	ND	ND	47.3
10-Jun-15	ND	ND	ND	ND	ND	48.4
3-Sep-15	ND	ND	ND	ND	ND	54.1

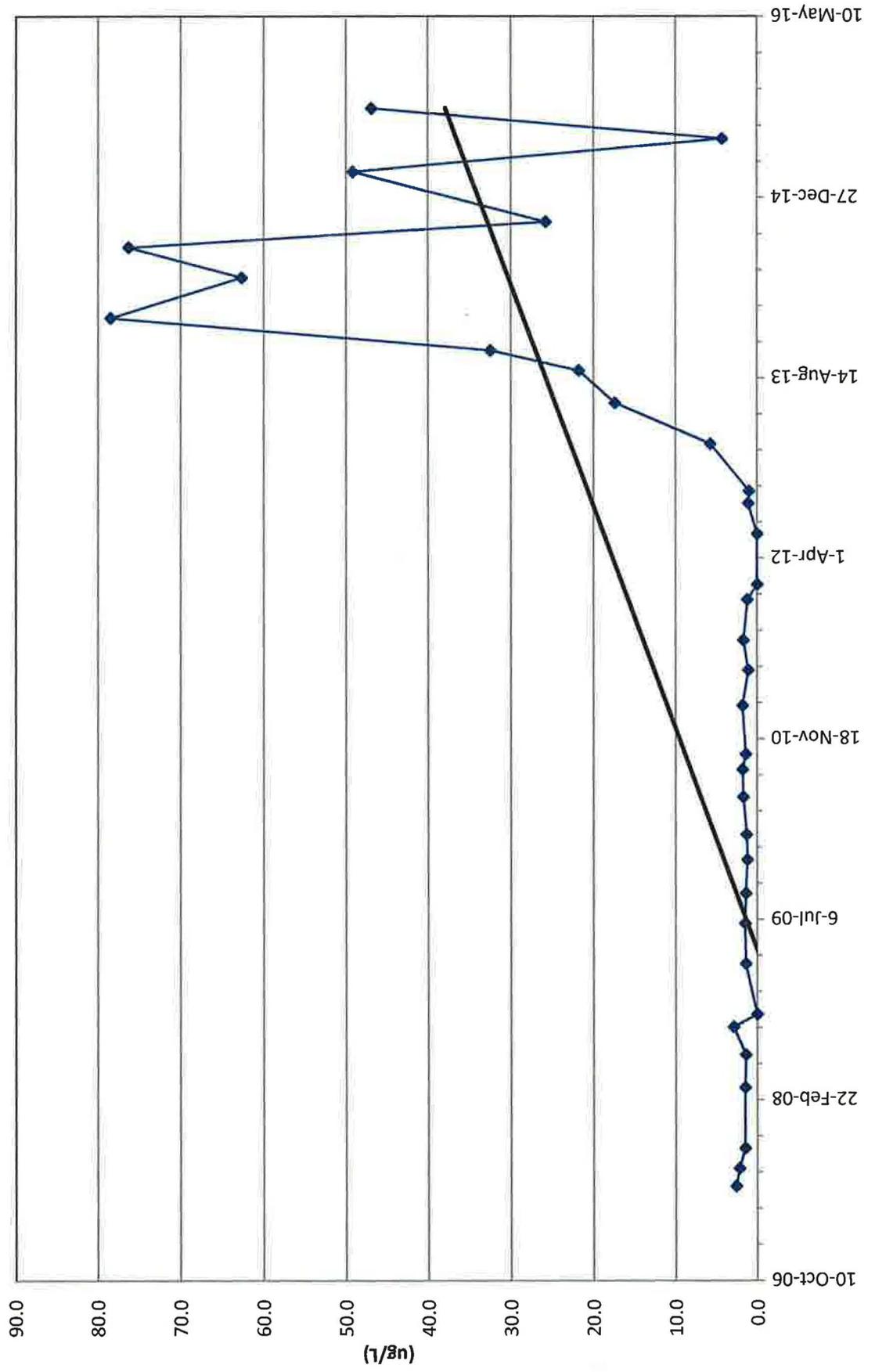
(ug/L)



TW4-23 Chloroform Values

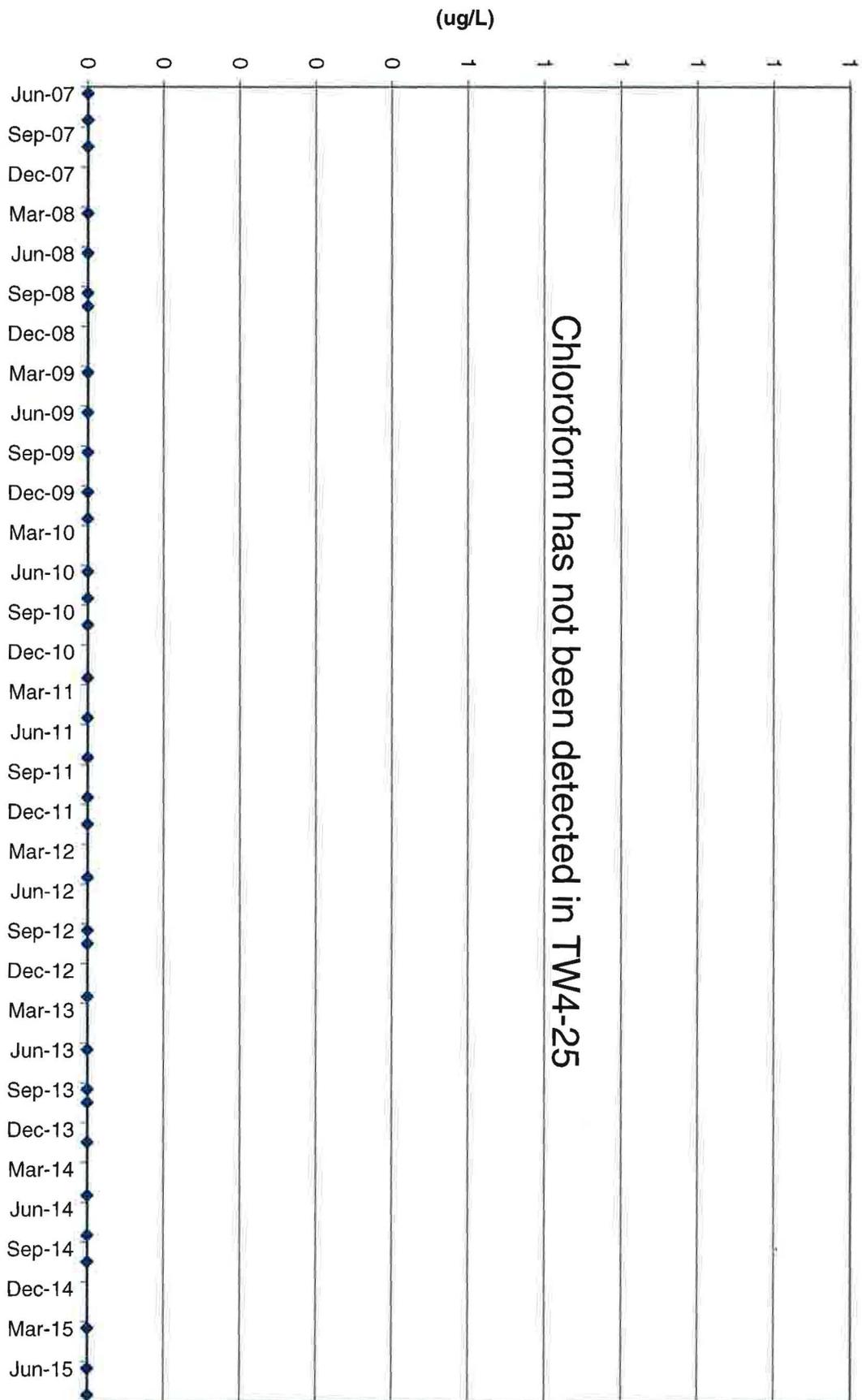
TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<1	<1	<1	38.4	1180
15-Oct-08	<2	<2	<2	<2	44.6	1130
4-Mar-09	1.4	<1	<1	<1	30.5	1010
24-Jun-09	1.5	<1	<1	<1	30.4	759
15-Sep-09	1.4	<1	<1	<1	30.7	618
17-Dec-09	1.2	<1	<1	<1	28.3	1080
25-Feb-10	1.3	<1	<1	<1	33.1	896
9-Jun-10	1.7	<1	<1	<1	30	639
24-Aug-10	1.8	<1	<1	<1	31	587
6-Oct-10	1.4	<1	<1	<1	31	522
17-Feb-11	1.8	ND	ND	ND	31	1100
26-May-11	1.1	ND	ND	ND	35	1110
17-Aug-11	1.7	ND	ND	ND	34	967
7-Dec-11	1.2	ND	ND	ND	35	608
18-Jan-12	ND	ND	ND	ND	37	373
6-Jun-12	ND	ND	ND	ND	37	355
30-Aug-12	1.1	ND	ND	ND	37	489
3-Oct-12	1.0	ND	ND	ND	38	405
11-Feb-13	5.7	ND	ND	ND	35.9	1260
5-Jun-13	17.4	ND	ND	ND	23.7	916
3-Sep-13	21.8	ND	ND	ND	32.6	998
29-Oct-13	32.5	ND	ND	ND	34.6	1030
27-Jan-14	78.5	ND	ND	1.18	31.6	809
19-May-14	62.7	ND	ND	ND	35	1020
11-Aug-14	76.3	ND	ND	ND	31.5	1150
21-Oct-14	25.8	ND	ND	ND	35.7	1050
9-Mar-15	49.2	ND	ND	ND	34.6	944
8-Jun-15	4.3	ND	ND	ND	31.8	1290
31-Aug-15	46.9	ND	ND	ND	25.3	788

TW4-24 Chloroform Values



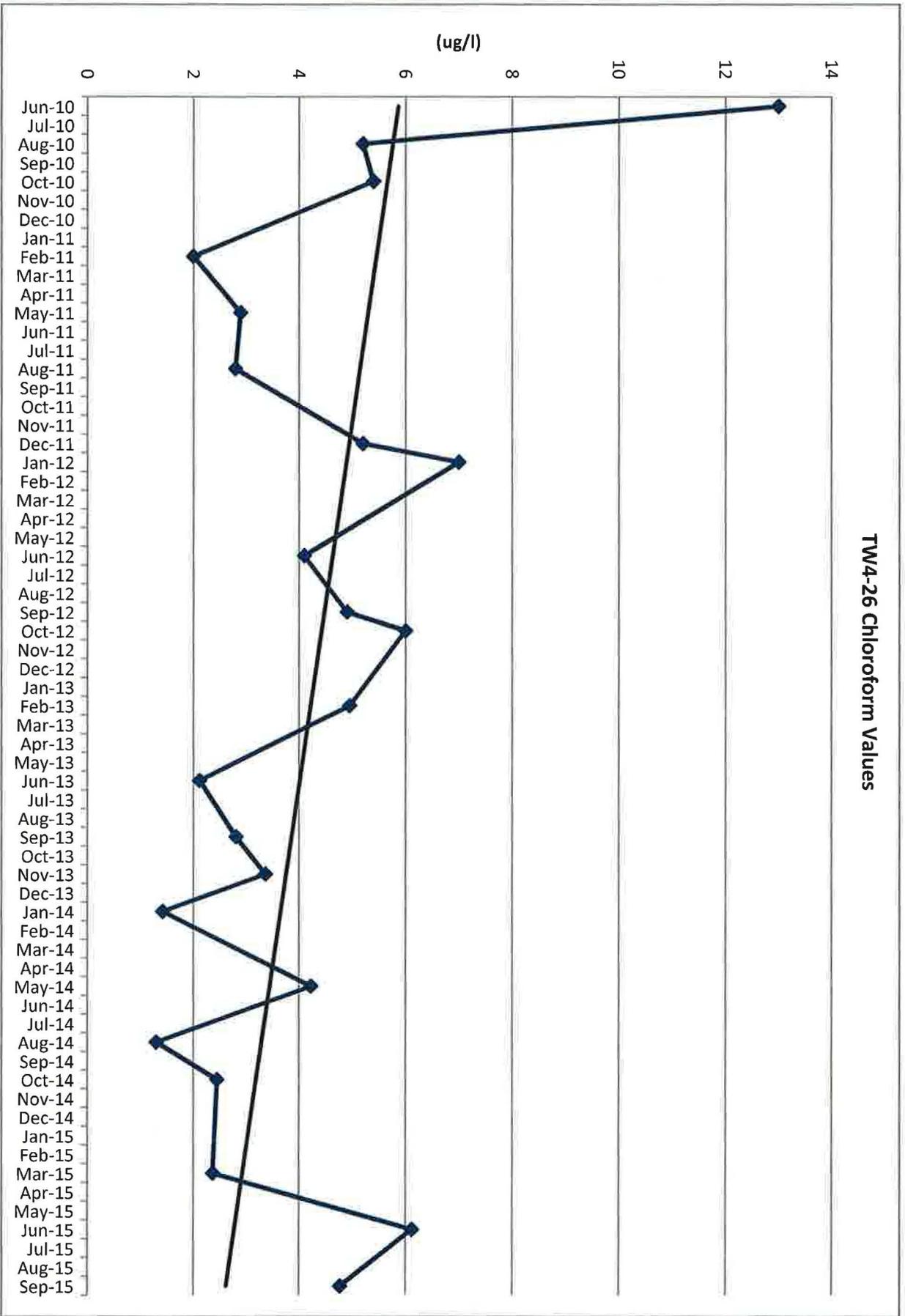
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	17.1	395
15-Aug-07	<1	<1	<1	<1	16.7	382
10-Oct-07	<1	<1	<1	<1	17	356
26-Mar-08	<1	<1	<1	<1	18.7	374
25-Jun-08	<1	<1	<1	<1	22.1	344
10-Sep-08	<1	<1	<1	<1	18.8	333
15-Oct-08	<2	<2	<2	<2	21.3	366
4-Mar-09	<1	<1	<1	<1	15.3	332
24-Jun-09	<1	<1	<1	<1	15.3	328
15-Sep-09	<1	<1	<1	<1	3.3	328
16-Dec-09	<1	<1	<1	<1	14.2	371
23-Feb-10	<1	<1	<1	<1	14.4	296
8-Jun-10	<1	<1	<1	<1	16	306
10-Aug-10	<1	<1	<1	<1	14	250
5-Oct-10	<1	<1	<1	<1	15	312
16-Feb-11	ND	ND	ND	ND	15	315
25-May-11	ND	ND	ND	ND	16	321
16-Aug-11	ND	ND	ND	ND	16	276
15-Nov-11	ND	ND	ND	ND	16	294
18-Jan-12	ND	ND	ND	ND	16	304
31-May-12	ND	ND	ND	ND	16	287
11-Sep-12	ND	ND	ND	ND	17	334
3-Oct-12	ND	ND	ND	ND	17	338
11-Feb-13	ND	ND	ND	ND	9.04	190
5-Jun-13	ND	ND	ND	ND	5.24	136
3-Sep-13	ND	ND	ND	ND	5.69	119
29-Oct-13	ND	ND	ND	ND	6.1	88.6
27-Jan-14	ND	ND	ND	ND	2.16	85.7
19-May-14	ND	ND	ND	ND	1.21	51.1
11-Aug-14	ND	ND	ND	ND	1.6	67
21-Oct-14	ND	ND	ND	ND	1.03	58.1
9-Mar-15	ND	ND	ND	ND	14.4	310
8-Jun-15	ND	ND	ND	ND	1.14	58.3
31-Aug-15	ND	ND	ND	ND	1.63	69.2

TW4-25 Chloroform Values

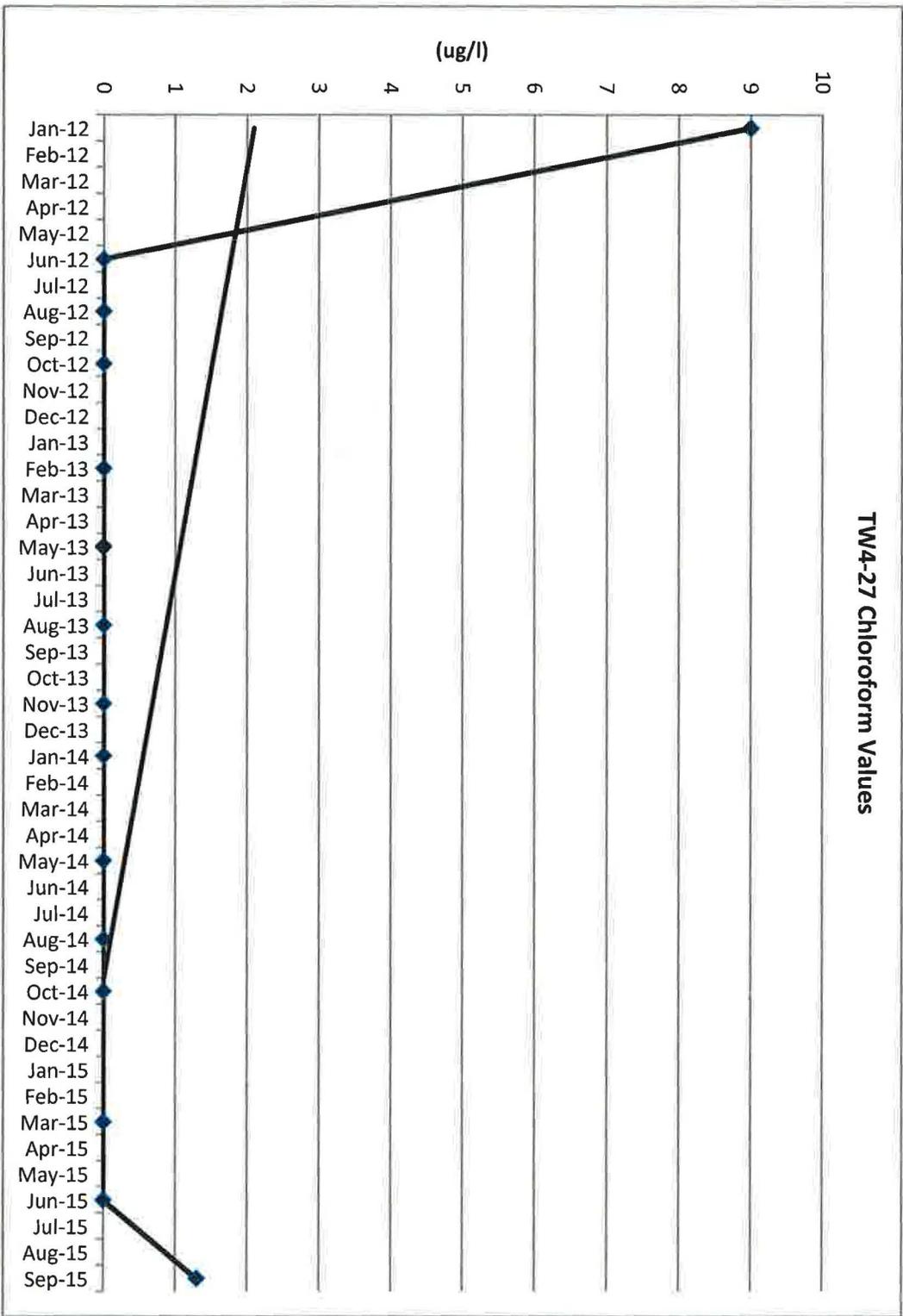


TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17
6-Oct-10	5.4	<1	<1	<1	9.6	22
22-Feb-11	2.0	ND	ND	ND	10	30
26-May-11	2.9	ND	ND	ND	10	15
17-Aug-11	2.8	ND	ND	ND	11	19
7-Dec-11	5.2	ND	ND	ND	10	26
18-Jan-12	7.0	ND	ND	ND	11	17
6-Jun-12	4.1	ND	ND	ND	12	19
11-Sep-12	4.9	ND	ND	ND	9	19
3-Oct-12	6.0	ND	ND	ND	12	19
7-Feb-13	5.0	ND	ND	ND	12.5	16.6
13-Jun-13	2.1	ND	ND	ND	13.6	14.5
5-Sep-13	2.8	ND	ND	ND	11.7	17.6
7-Nov-13	3.4	ND	ND	ND	15.9	15.9
29-Jan-14	1.4	ND	ND	ND	14.2	16.9
21-May-14	4.2	ND	ND	ND	12.5	15.4
11-Aug-14	1.3	ND	ND	ND	10.8	15
28-Oct-14	2.45	ND	ND	ND	12.3	14.6
12-Mar-15	2.37	ND	ND	ND	14.4	14.4
10-Jun-15	6.12	ND	1.17	ND	11.3	14.4
3-Sep-15	4.77	ND	ND	ND	14.2	14.0

TW4-26 Chloroform Values



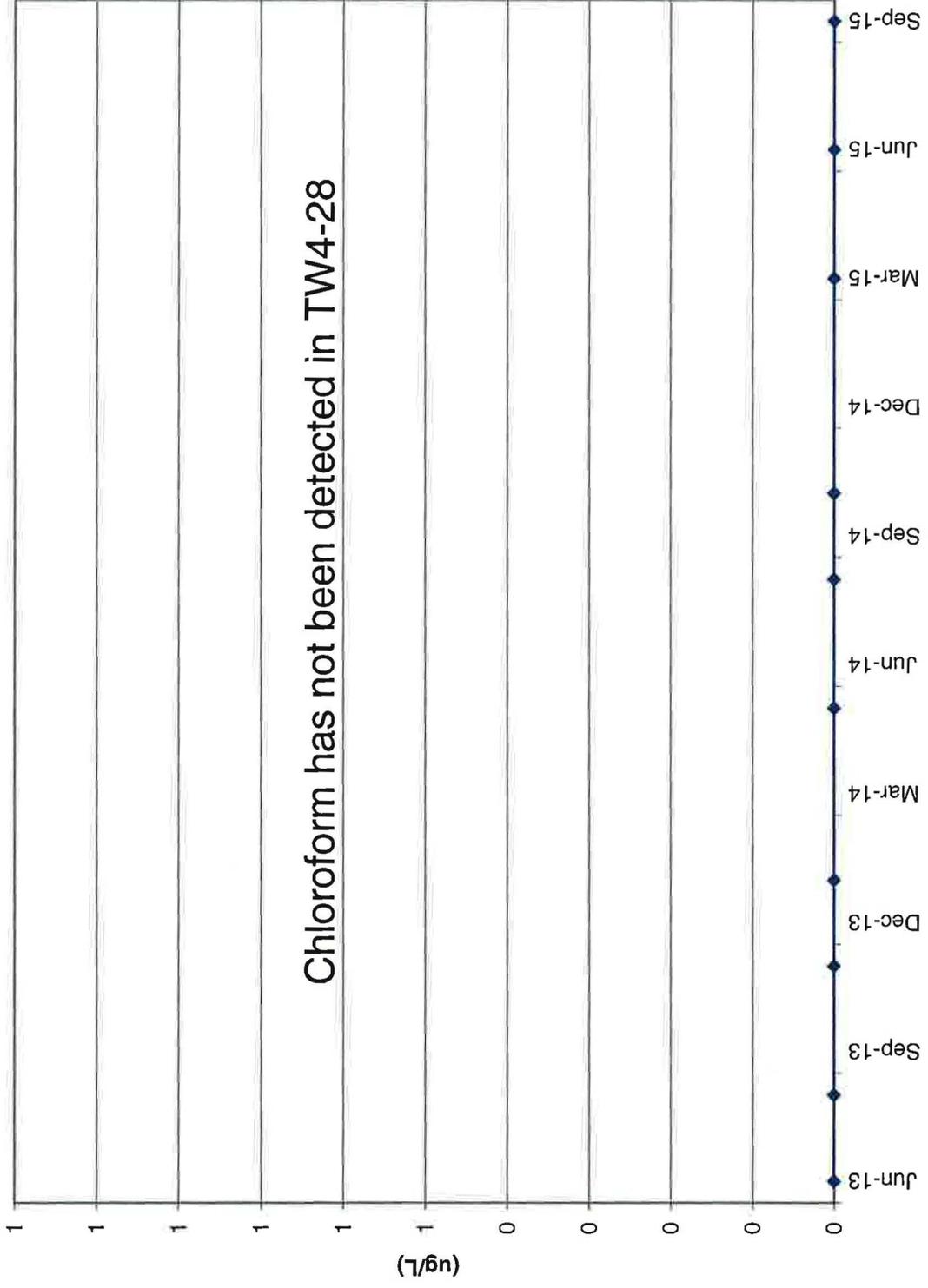
TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18
7-Feb-13	ND	ND	ND	ND	31.2	18.8
30-May-13	ND	ND	ND	ND	29.4	20.3
29-Aug-13	ND	ND	ND	ND	27.2	19
6-Nov-13	ND	ND	ND	ND	29.8	21.8
23-Jan-14	ND	ND	ND	ND	31.3	21.8
21-May-14	ND	ND	ND	ND	31.1	20.6
13-Aug-14	ND	ND	ND	ND	27.0	23
23-Oct-14	ND	ND	ND	ND	28.2	24.4
11-Mar-15	ND	ND	ND	ND	26.5	26.2
10-Jun-15	ND	ND	ND	ND	24.0	26.8
2-Sep-15	1.30	ND	ND	ND	20.9	26.8



TW4-27 Chloroform Values

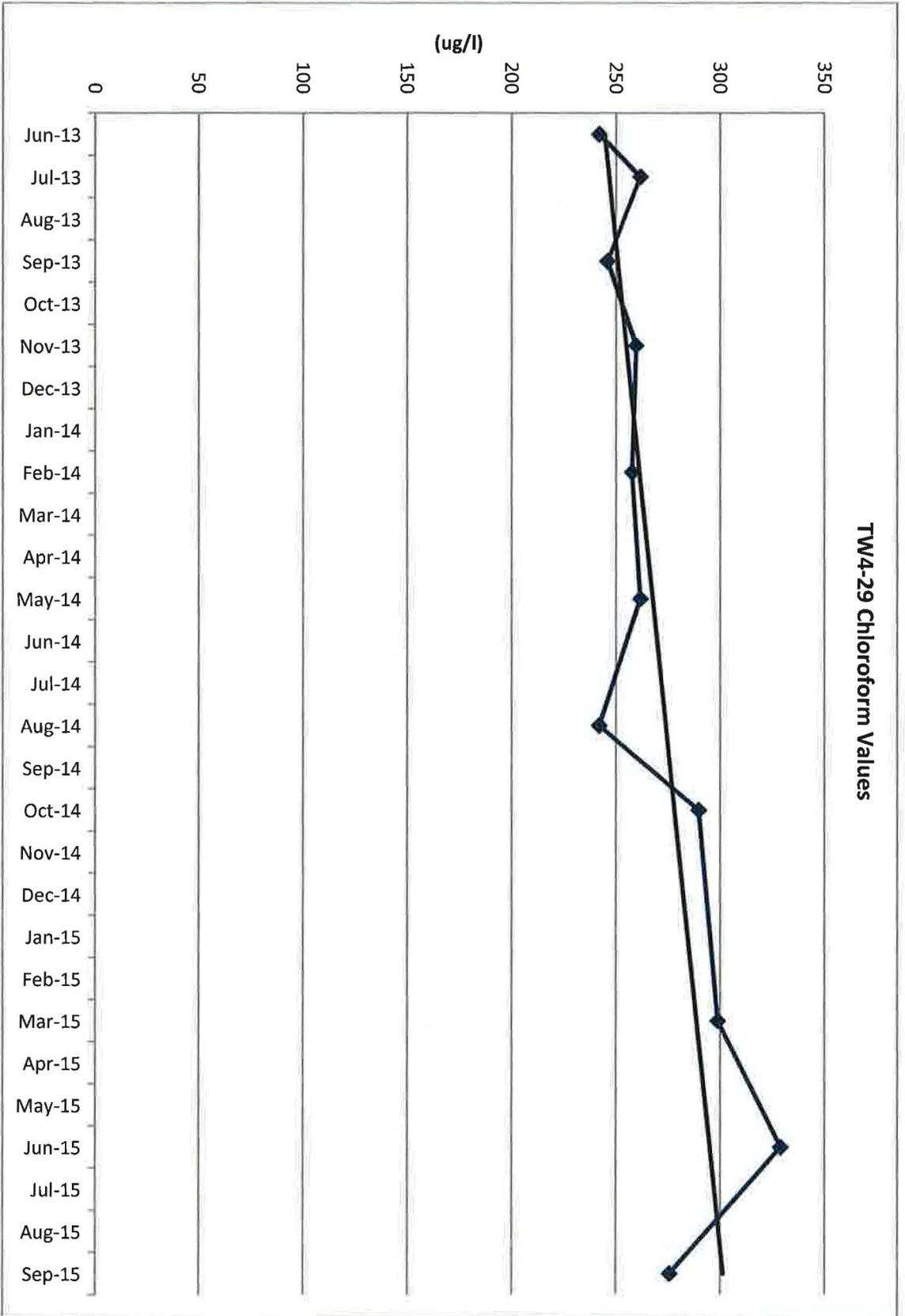
TW4-28	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	47.8
21-May-14	ND	ND	ND	ND	16.5	45.7
13-Aug-14	ND	ND	ND	ND	14.2	50
23-Oct-14	ND	ND	ND	ND	16.5	52.1
11-Mar-15	ND	ND	ND	ND	19	52.2
10-Jun-15	ND	ND	ND	ND	19	56.4
2-Sep-15	ND	ND	ND	ND	17.8	61.4

TW4-28 Chloroform Values



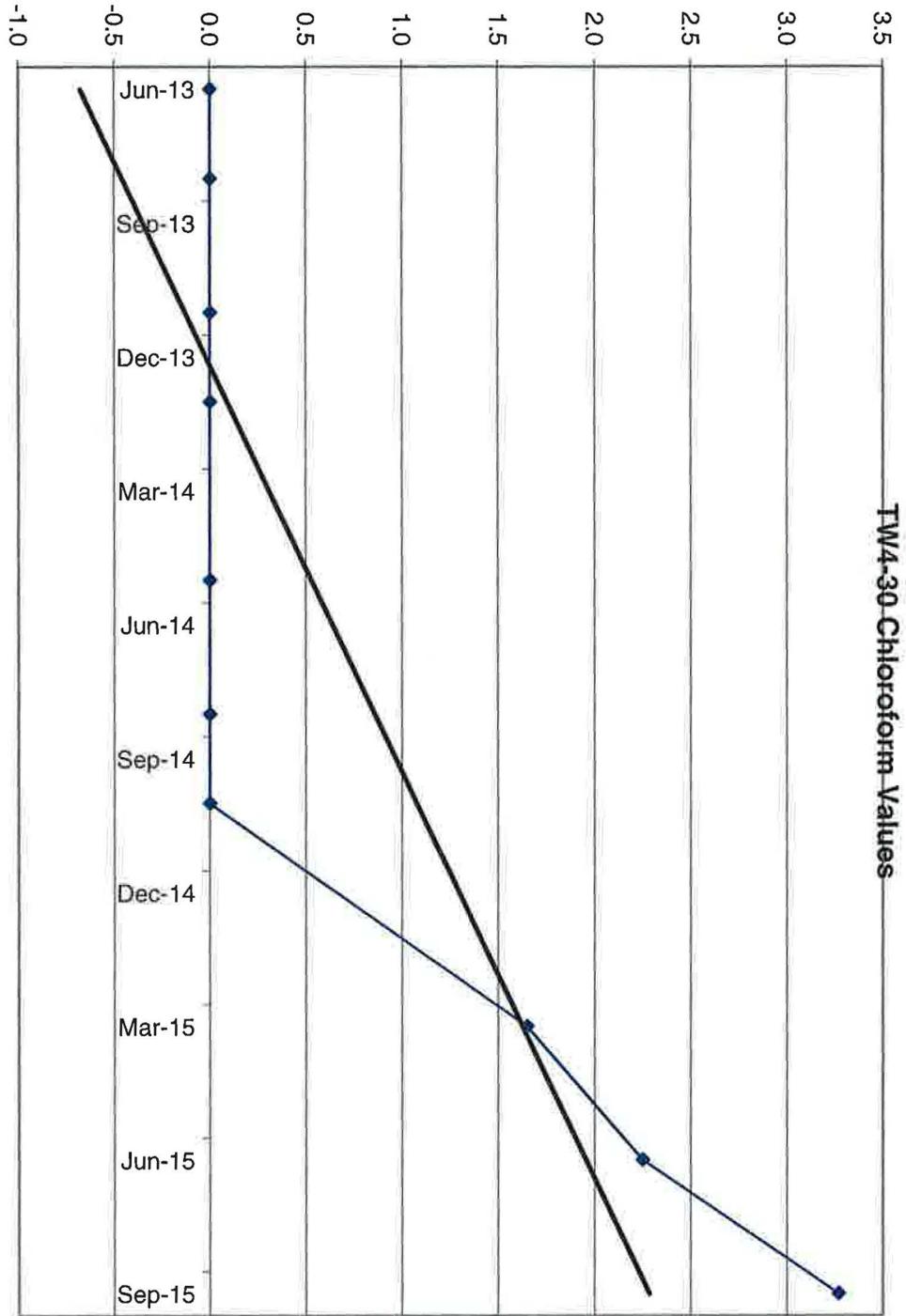
TW4-29	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	242	ND	ND	ND	4.63	44.8
11-Jul-13	262	ND	ND	ND	3.52	37.7
26-Sep-13	246	ND	ND	ND	4.18	41.4
13-Nov-13	260	ND	ND	ND	4.11	42.5
5-Feb-14	258	ND	ND	ND	4.63	41.9
22-May-14	262	ND	ND	ND	3.52	38.2
27-Aug-14	242	ND	ND	ND	3.4	41
29-Oct-14	290	ND	ND	ND	3.64	41
12-Mar-15	299	ND	ND	ND	4.14	40.5
11-Jun-15	329	ND	ND	ND	2.95	42.5
3-Sep-15	276	ND	ND	ND	2.19	47.3

TW4-29 Chloroform Values



TW4-30	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	0.948	36
29-Aug-13	ND	ND	ND	ND	0.952	36.3
7-Nov-13	ND	ND	ND	ND	1.24	35.9
23-Jan-14	ND	ND	ND	ND	1.36	36
21-May-14	ND	ND	ND	ND	1.44	31.99
13-Aug-14	ND	ND	ND	ND	1.5	38
23-Oct-14	ND	ND	ND	ND	1.84	37.1
11-Mar-15	1.65	ND	ND	ND	2.15	38.3
10-Jun-15	2.25	ND	ND	ND	1.75	40.3
3-Sep-15	3.27	ND	ND	ND	1.75	44.2

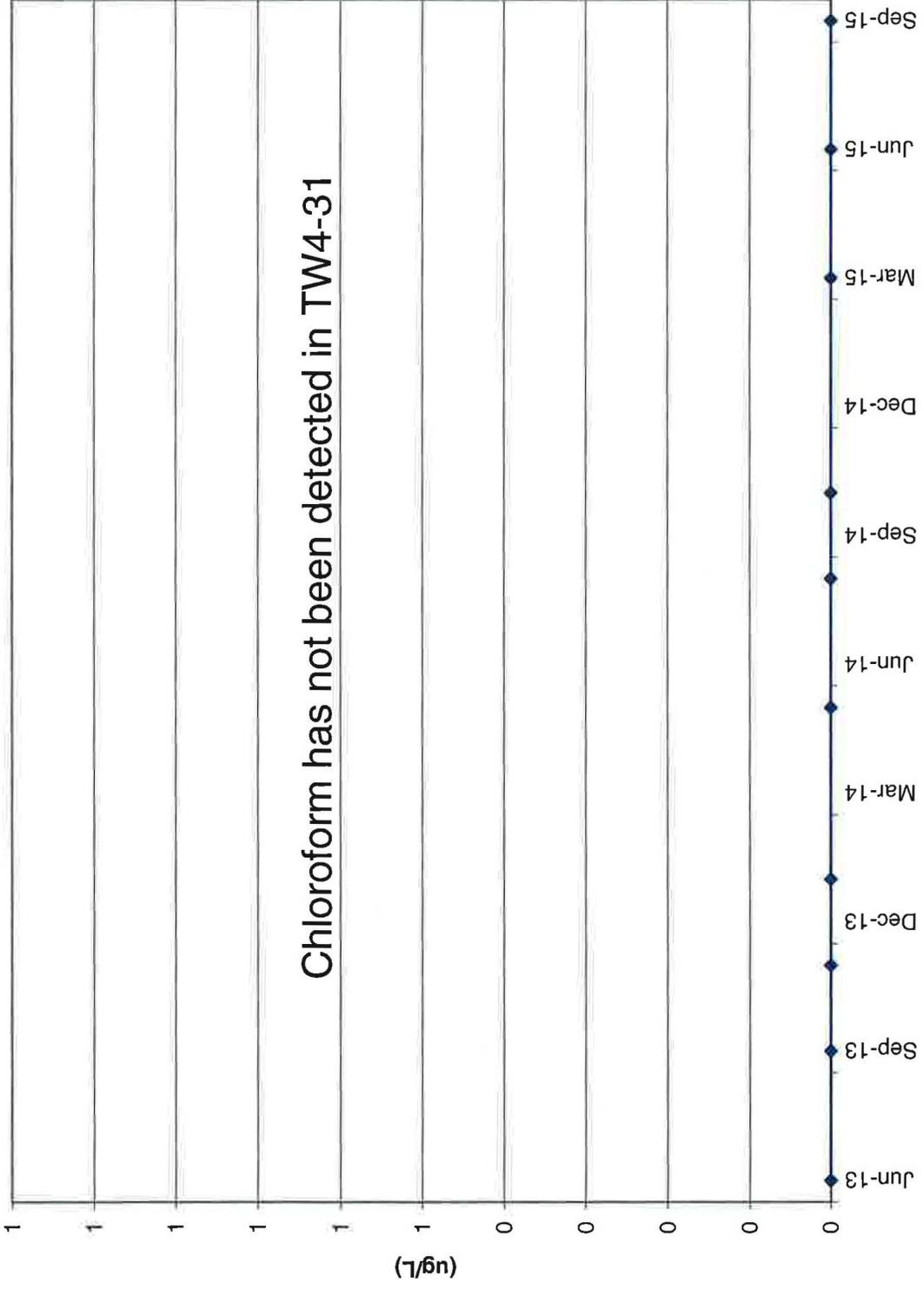
(ug/L)



TW4-30 Chloroform Values

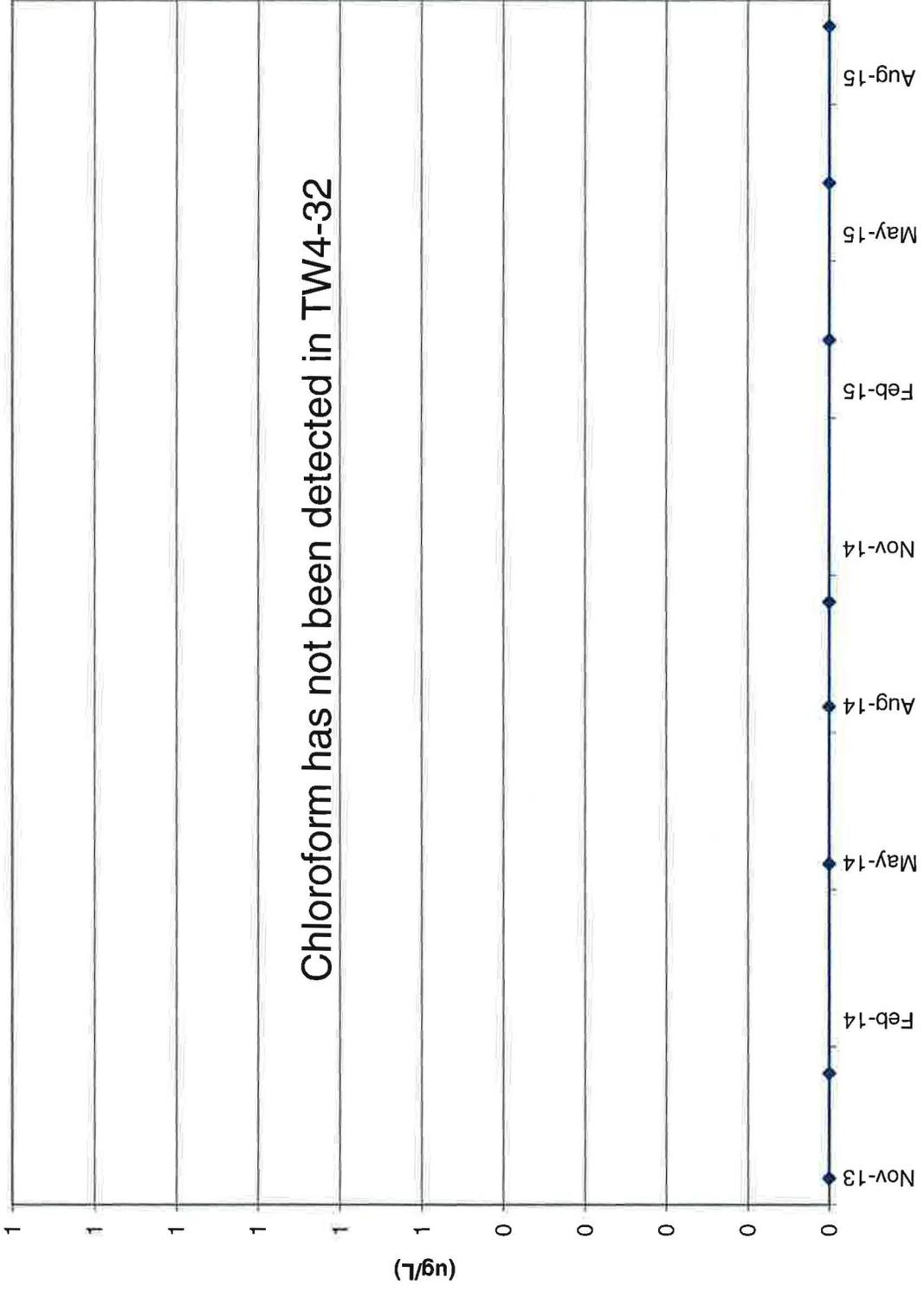
TW4-31	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	1.26	28.4
5-Sep-13	ND	ND	ND	ND	1.1	29.4
7-Nov-13	ND	ND	ND	ND	1.33	28
23-Jan-14	ND	ND	ND	ND	1.32	28.5
21-May-14	ND	ND	ND	ND	1.22	26.3
13-Aug-14	ND	ND	ND	ND	1.1	30
28-Oct-14	ND	ND	ND	ND	1.23	30
11-Mar-15	ND	ND	ND	ND	1.33	30.6
10-Jun-15	ND	ND	ND	ND	1.19	31.1
2-Sep-15	ND	ND	ND	ND	0.916	30.4

TW4-31 Chloroform Values



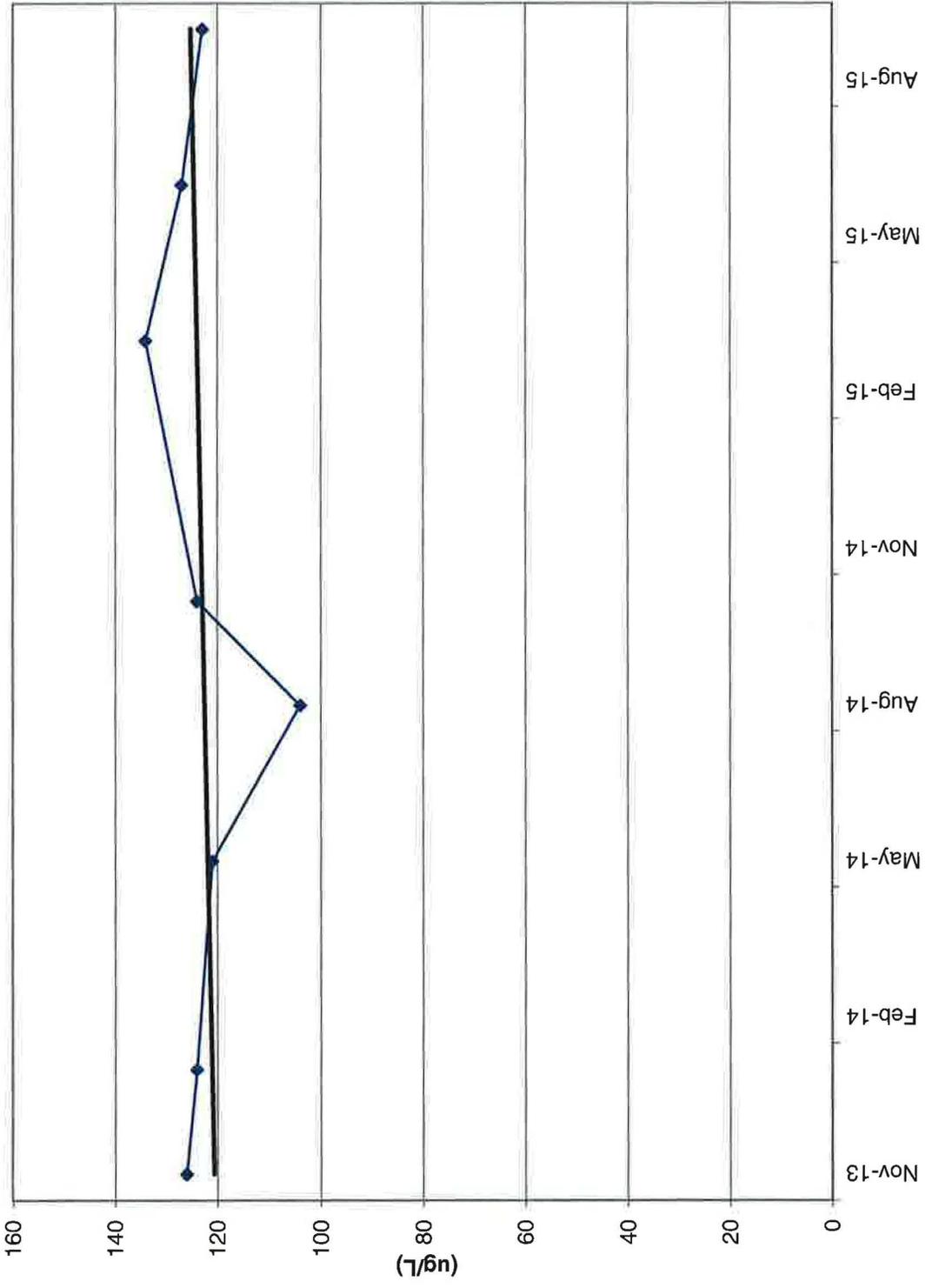
TW4-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	64
23-Oct-14	ND	ND	ND	ND	2.14	62.6
11-Mar-15	ND	ND	ND	ND	2.46	64.2
10-Jun-15	ND	ND	ND	ND	1.21	62.7
2-Sep-15	ND	ND	ND	ND	5.09	59.6

TW4-32 Chloroform Values



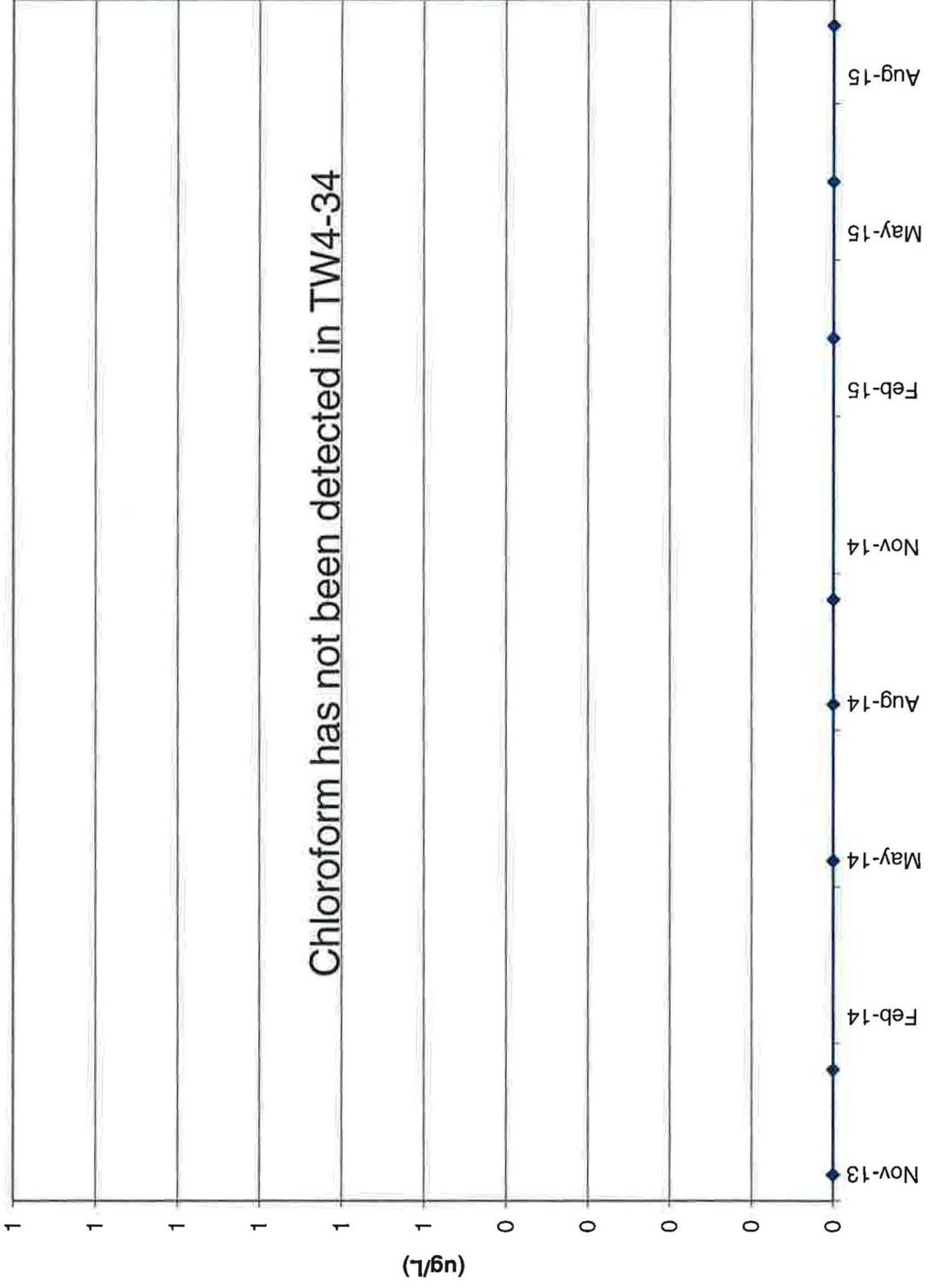
TW4-33	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	126	ND	ND	ND	1.82	47.2
30-Jan-14	124	ND	ND	ND	2.56	43.5
22-May-14	121	ND	ND	ND	1.63	46.8
27-Aug-14	104	ND	ND	ND	1.5	43
29-Oct-14	124	ND	ND	ND	2.22	44.2
12-Mar-15	134	ND	ND	ND	1.91	44.2
11-Jun-15	127	ND	ND	ND	1.62	46.4
3-Sep-15	123	ND	ND	ND	1.64	53.4

TW4-33 Chloroform Values



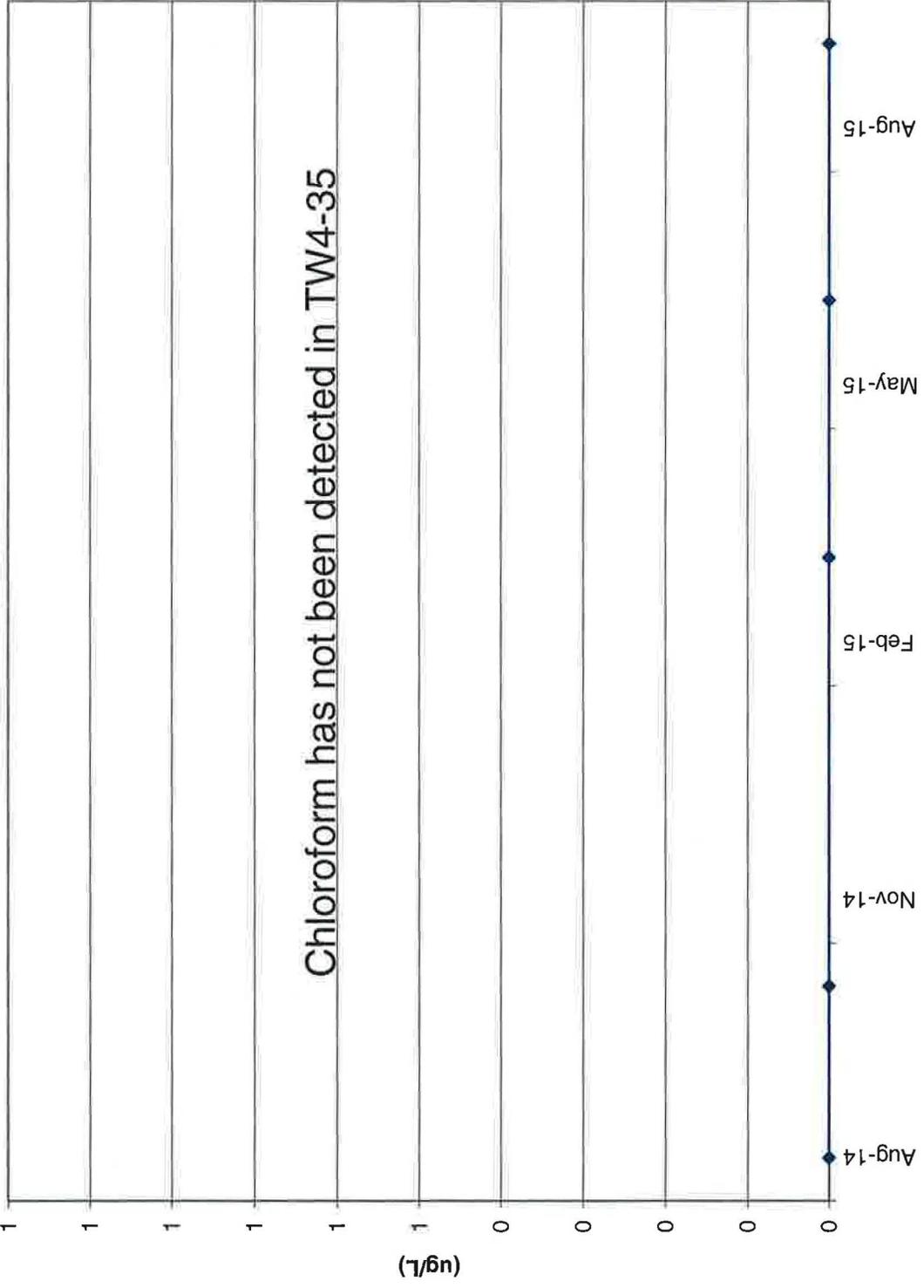
TW4-34	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	18
28-Oct-14	ND	ND	ND	ND	1.16	17.5
11-Mar-15	ND	ND	ND	ND	1.21	17.7
10-Jun-15	ND	ND	ND	ND	0.868	17.4
3-Sep-15	ND	ND	ND	ND	0.458	15.1

TW4-34 Chloroform Values



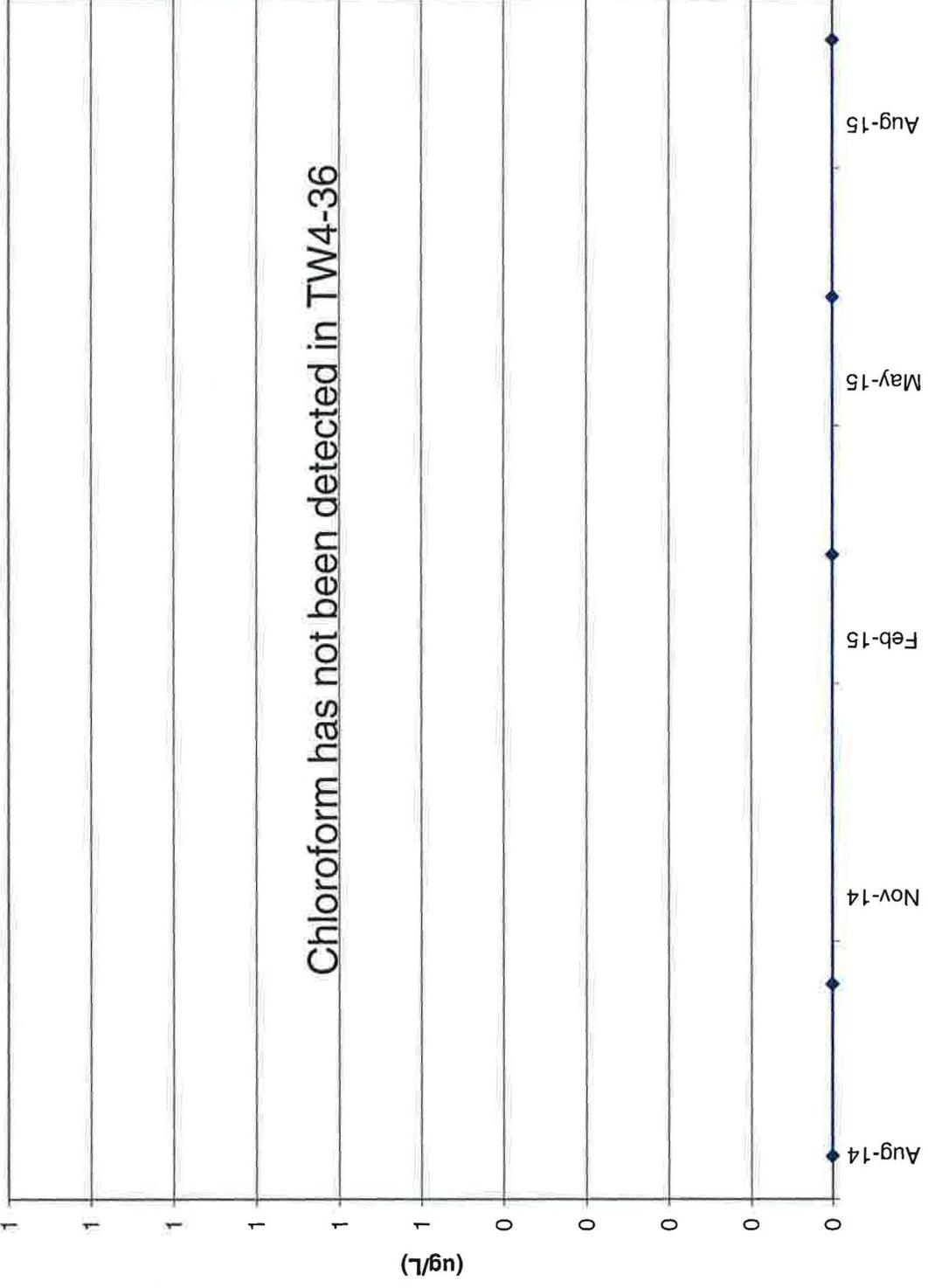
TW4-35	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9

TW4-35 Chloroform Values



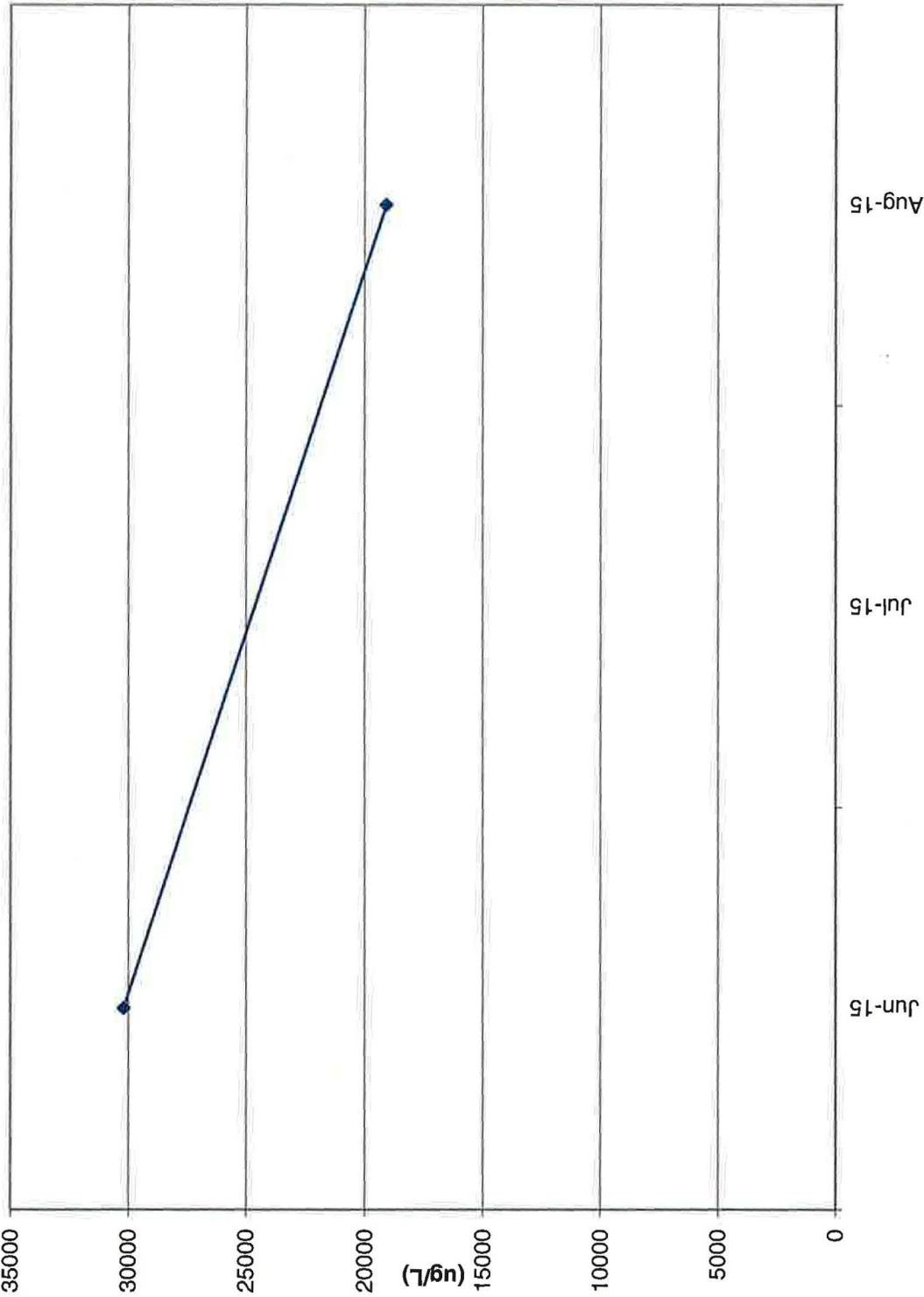
TW4-36	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4

TW4-36 Chloroform Values



TW4-37	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Jun-15	30200	18	16	2	35	345
31-Aug-15	19100	17	14	1.04	32	374

TW4-37 Chloroform Values

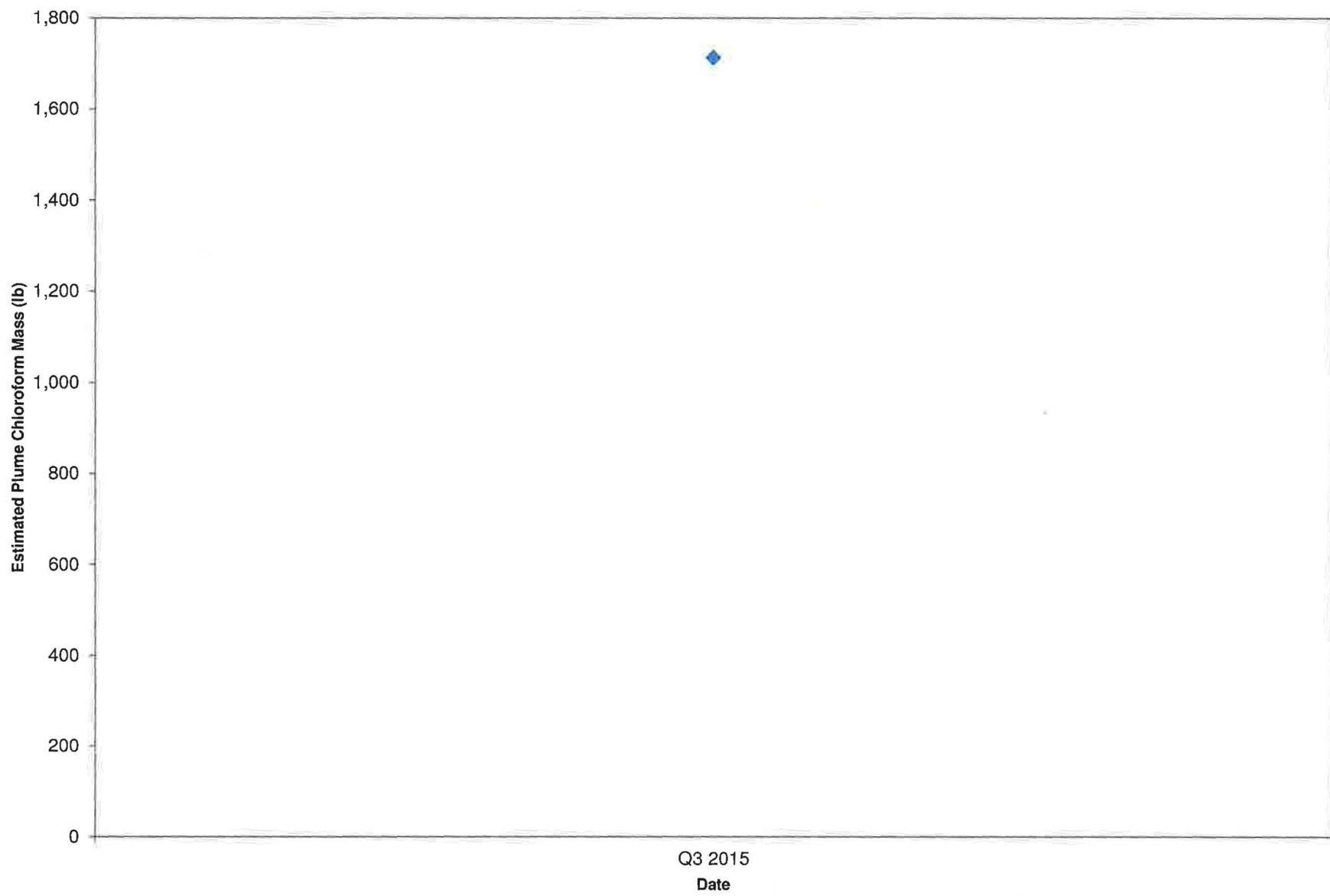


Tab L

Contour Map Based Chloroform Plume Mass Calculations and Data Over Time

Table L1
Chloroform Plume Mass Estimate over Time
White Mesa Mill

Quarter	Estimated Plume Chloroform Mass (lb)
Q3 2015	1,711.9



**HYDRO
GEO
CHEM, INC.**

**CONTOUR-BASED CHLOROFORM PLUME
RESIDUAL MASS ESTIMATE TIME SERIES
WHITE MESA MILL**

Approved	Date	Author	Date	File Name	Figure
SJS		GEM	11/3/2015	chl_massest.xls	L.1

**QUARTERLY CONTOUR BASED CHLOROFORM PLUME MASS
CALCULATION DETAILS:**

Chloroform Data File: CHL_SurferInput_Q3_15.xls

Gridding details:

- 1) **kriging parameters:** SURFER™ default parameters (point kriging, linear variogram, slope = 1, no anisotropy [anisotropy = 1], no search constraints [all data used])
- 2) **min x, max x (UTME[m]):** 631900, 633043
- 3) **min y, max y (UTME[m]):** 4154240, 4155550.64
- 4) **grid spacing in x, y (m):** 15.24, 15.24
- 5) **artificial or pseudo-data:** none
- 6) **Q2, 2015 (previous quarter) data used at wells:** MW-1, MW-2, MW-3, MW-5, MW-12, MW-15, MW-17 through MW-20, MW-22 through MW-24, MW-27 through MW-29.

Chloroform residual mass estimate kriged grid files (ascii format):

Ucm3Q15wl.grd: third quarter, 2015 Water Level Grid (ft amsl)

Ucm3Q15bb.grd: third quarter, 2015 Aquifer Base Grid (ft amsl)

Ucm3Q15sat.grd: third quarter, 2015 Saturated Thickness Grid (ft)

Ucm3Q15logchl.grd: third quarter, 2015 log of chloroform grid (log of ug/L)

Ucm3Q15chl.grd: third quarter, 2015 Chloroform Concentration Grid (ug/L)

Ucm3Q15ge70.grd: third quarter, 2015 Chloroform Concentration GE 70 Grid (ug/L)

Ucm3Q15volm3.grd: third quarter, 2015 Groundwater Volume Grid (m³)

Ucm3Q15masslb.grd: third quarter, 2015 Chloroform Plume Mass Grid (lb)

Chloroform residual mass estimate kriged grid XYZ files (ascii format):

Ucm3Q15wl.dat: third quarter, 2015 Water Level Grid XYZ file (ft amsl)

Ucm3Q15bb.dat: third quarter, 2015 top of Aquifer Base Grid XYZ file (ft amsl)

Ucm3Q15sat.dat: third quarter, 2015 Saturated Thickness Grid XYZ file (ft)

Ucm3Q15logchl.dat: third quarter, 2015 log of chloroform grid XYZ file (log of ug/L)

Ucm3Q15chl.dat: third quarter, 2015 Chloroform Concentration Grid XYZ file (ug/L)

Ucm3Q15ge70.dat: third quarter, 2015 Chloroform Concentration GE 70 Grid (ug/L)
XYZ file

Ucm3Q15volm3.dat: third quarter, 2015 Groundwater Volume Grid XYZ file (m³)

Ucm3Q15masslb.dat: third quarter, 2015 Chloroform Plume Mass Grid XYZ file (lb)

Chloroform plume mass estimate file: Ucm3Q15result.xls

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, November 23, 2015 12:46 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 Q3 Chloroform Monitoring
Attachments: 1509123-EDD.csv; 1509241-EDD.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for chloroform monitoring conducted at the White Mesa Mill during the third quarter of 2015, in Comma Separated Value (CSV) format.

Other electronic files required by the Corrective Action Plan are included on the CDs included with the hard copy reports.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel



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 N

Evaluation of Productivity at TW4-19 and TW4-24

ATTACHMENT N

EVALUATION OF REDUCED PRODUCTIVITY AT TW4-19 AND TW4-24 AND COMPARISON OF PUMPING AND 'BACKGROUND' FLOWS THROUGH THE CHLOROFORM PLUME

1.0 INTRODUCTION AND OVERVIEW

This analysis considers nitrate and chloroform program data up through the second quarter of 2015. As shown in Figures N.1 and N.2, the productivities of chloroform pumping well TW4-19 and nitrate pumping well TW4-24 have dropped since the third quarter of 2014. The decreases in average pumping rates at these wells have caused reductions in pumped chloroform and nitrate masses at each well.

As per the nitrate and chloroform CAPs, reductions in productivity of nitrate and chloroform pumping wells requires an evaluation to determine the likely causes and, depending on the results of the evaluation, a decision to either take no additional action, or to take action that may include rehabilitation or replacement of the affected wells, or installation of additional wells. Although under the chloroform CAP such an evaluation is only required as part of the 2-year review process (two-year Corrective Action Comprehensive Monitoring Evaluation ["CACME"]), to be proactive, and because the chloroform and nitrate pumping systems overlap, the evaluation of both systems is commencing at the present time.

Lost productivity may result from several causes. Likely causes at the Mill include: interference between relatively large numbers of closely spaced extraction wells; reductions in hydraulic gradients resulting from reduced wildlife pond recharge; reduced transmissivities as saturated thicknesses decline due to reduced wildlife pond recharge and increases in the number of pumping wells; potentially lower average hydraulic conductivity related to saturated thickness declines (that presumably have resulted in dewatering of relatively shallow zones of higher permeability); and losses in well efficiency.

Reduced productivity at TW4-24 doesn't significantly affect chloroform mass removal because TW4-24 is primarily a nitrate pumping well and because of low chloroform concentrations. Reduced productivity at TW4-24 is mainly of concern to the nitrate program because of moderately high nitrate concentrations and potentially reduced capture effectiveness. However, potential reductions in capture effectiveness will be mitigated by decreases in saturated thicknesses, decreases in hydraulic gradients, and potentially lower average hydraulic conductivities that in combination will significantly reduce non-pumping 'background' flow through the nitrate plume. Reduced 'background' flow reduces the amount of pumping needed to maintain effective capture.

The impact of reduced productivity at TW4-19 on chloroform mass removal will be mitigated by factors that include: 1) reduced non-pumping 'background' flow through the chloroform plume resulting from decreases in saturated thicknesses, decreases in hydraulic gradients, and potentially lower average hydraulic conductivities; 2) chloroform concentrations at TW4-19 are on average lower than concentrations at nearby chloroform pumping wells; and 3) the recent addition of five wells to the chloroform pumping system: four existing wells (TW4-1, TW4-2, TW4-11, and TW4-21), and one new well (TW4-37). The addition of these wells increases chloroform mass removal rates and reduces the relative importance of TW4-19.

At the present time, because nitrate pumping is likely to be adequate even with reduced pumping at TW4-24, and because of the beneficial impact of adding five wells to the chloroform pumping system (which reduces the relative importance of TW4-19), it is considered too early to commit to any particular course of action other than continuing evaluation of the pumping system.

2.0 COMPARISON OF PUMPING AND FLOW THROUGH THE CHLOROFORM PLUME OVER TIME

Reduced productivity at TW4-19 is likely the result of four factors other than potential losses in well efficiency: 1) smaller saturated thickness (by approx 10%) related to reduced wildlife pond recharge; 2) smaller hydraulic gradients (by approx 29%) also related to reduced wildlife pond recharge; 3) smaller average hydraulic conductivities (by approx 9%, presumably as a result of dewatering relatively shallow zones of higher permeability); and interference between pumping wells. 'Background' flow through the chloroform plume will be affected by the first three factors because it is meant to represent the condition that would arise in the absence of pumping.

The pre-chloroform pumping hydraulic gradient within the chloroform plume can be calculated based on water levels at wells TW4-5 and TW4-16 and wells TW4-10 and TW4-6. The pair TW4-5/TW4-16 can be used to represent the hydraulic gradient within the western portion of the plume and the pair TW4-10/TW4-6 can be used to represent the hydraulic gradient within the south-southeastern portion of the plume. Using these well pairs also allows representative comparison to current gradients because these wells have remained non-pumping. Using these well pairs, and water level data from September 2002 (Figure N.3), a pre-pumping hydraulic gradient of approximately 0.021 ft/ft is calculated for the western portion of the plume and a pre-pumping hydraulic gradient of approximately 0.038 ft/ft is calculated for the south-southeastern portion of the plume. Under current conditions, the hydraulic gradient within the western portion of the plume is approximately 0.015 ft/ft (a 29% reduction), and within the south-southeastern portion of the plume approximately 0.028 ft/ft (a 26% reduction).

The hydraulic gradient within the chloroform plume has been reduced by decay of the groundwater mound resulting from cessation of water delivery to the northern wildlife ponds and by pumping. Reliable separation of these two effects within much of the chloroform plume is not possible because pumping of the plume has been underway for

more than 12 years. However, pre-pumping flow through the plume using pre-pumping gradients and saturated thicknesses can be compared with the average pumping during the 2003 7-month long pumping test (HGC [2004]), and the flow through the plume based on Q2 2015 gradients and saturated thicknesses can be compared with Q2 2015 pumping.

Assuming that the pre-pumping plume width was approximately 1,100 feet (Figure N.3), the hydraulic gradient was approximately 0.021 ft/ft, and the saturated thickness was approximately 64 feet (based on September 2002 data from wells TW4-5, TW4-9, TW4-10, TW4-16, TW4-18, and TW4-19) a pre-pumping flow of approximately 4.6 gpm is calculated for the western portion of the plume; assuming that the pre-pumping plume width was approximately 550 feet (Figure N.3), the hydraulic gradient was approximately 0.039 ft/ft, and the saturated thickness was approximately 29 feet (based on September 2002 data from wells TW4-1, TW4-2, TW4-6, TW4-7, TW4-8, and TW4-11) a pre-pumping flow of approximately 0.78 gpm is calculated for the south-southeastern portion of the plume. The total pre-pumping flow through the plume was therefore approximately 5.4 gpm. During the 7-month long pumping test, the average pumping within the plume was approximately 6.4 gpm (from wells MW-4, MW-26 [TW4-15], and TW4-19). Therefore, pumping within the plume was approximately 1 gpm (19%) higher than the calculated pre-pumping flows.

An assessment of the change in transmissivity (product of saturated thickness and conductivity) was performed based on changes in water levels in non-pumping wells TW4-5, TW4-9, TW4-10, TW4-16, and TW4-18 that resulted from reduced pumping at TW4-19 and TW4-24. Water levels at these wells clearly responded to the reduction in pumping at TW4-19 and TW4-24. As shown in Figures N.4 through N.8, the downward trends in water levels in these wells were halted or reversed once pumping was reduced. These same wells responded to pumping of TW4-19 during the 2003 7-month long pumping test. By superposition, the reduced pumping at TW4-19 and TW4-24 can be simulated as injection of water at these locations at rates equivalent to the decreases in rates of pumping at these locations.

Water level changes (displacements) at non-pumping observation wells in response to reduced pumping were calculated by subtracting out the average downward water level trends at wells TW4-5, TW4-9, TW4-10, TW4-16, and TW4-18. This eliminated the impact of water level reductions attributable primarily to reduced wildlife pond recharge. The data were then analyzed as an equivalent injection test using the well hydraulics interpretation software WHIP (HGC, 1998). The previous use of WHIP at the Mill is described in HGC (2002). WHIP was chosen for the analysis because it is designed to interpret both pumping and injection tests.

Figures N.9 through N.13 provide the results and the fits between measured and simulated displacements at TW4-5, TW4-9, TW4-10, TW4-16, and TW4-18. Transmissivity estimates are similar, but lower, than estimates derived from the 7-month long pumping test (HGC, 2004). The reduction in transmissivity is primarily related to

reduced saturated thickness; however, as shown in Table N.1, compared to the year 2003 analysis, the average reduction in transmissivity is approximately 27% whereas the average reduction in saturated thickness is only 20%. This implies a reduction in average conductivity of approximately 9%.

Since September 2002, the reduction in average saturated thickness within the western portion of the chloroform plume based on water levels at non-pumping wells TW4-5, TW4-9, TW4-10, TW4-16, and TW4-18 is approximately 10% as of Q4 2014, the last quarter prior to addition of wells TW4-1, TW4-2, TW4-11, and TW4-21 to the pumping network. The saturated thickness in the south-southeastern portion of the plume based on water levels at TW4-1, TW4-2, TW4-6, TW4-7, TW4-8, and TW4-11 as of Q4 2014 has increased by about 12%

Assuming that the 9% reduction in conductivity is representative of the western portion of the chloroform plume, the reduced hydraulic gradient (-29%), reduced saturated thickness (-10%), and reduced conductivity (-9%) in combination yield a new (second quarter, 2015) 'background' flow that is approximately 42% lower than the pre-pumping calculation of 4.6 gpm. The new 'background' flow is estimated as approximately 2.7 gpm. For the south-southeastern portion of the plume, assuming no change in hydraulic conductivity, the new 'background' flow is calculated as approximately 0.63 gpm. The total 'background' flow is therefore approximately 3.3 gpm. The current total pumping from the chloroform plume (4.64 gpm, from wells MW-4, MW-26, TW4-1, TW4-2, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, and TW4-37) exceeds the total calculated new 'background' flow of 3.3 gpm indicating that pumping is likely adequate even with reduced productivity at TW4-19.

3.0 EVALUATION OF INTERFERENCE BETWEEN PUMPING WELLS

Closely spaced pumping wells will 'interfere' with one another as they 'compete' for groundwater. This 'interference' reduces the productivities of the individual wells. While adding wells will likely increase total pumping, a point will be reached where the gains are negligible.

Reduced productivity at individual wells results in part from reduced saturated thicknesses as overall pumping increases with the addition of wells. Addition of wells also creates stagnation points between wells; by superposition, an effective no-flow boundary is created between pumping wells. Because of the effective creation of a no-flow boundary between pumping wells, it is important to avoid the generation of rectangular grids of wells or triangular patterns of wells. The creation of effective no-flow boundaries increases the rates of drawdowns at individual wells as well as the rates of reductions in saturated thicknesses within pumped areas; both reduce individual well productivities.

A quantitative analysis of interference within the chloroform and nitrate pumping systems is considered premature at this time; nitrate pumping appears adequate even with reduced productivity at TW4-24, and chloroform mass removal rates remain adequate

due to the recent addition of five chloroform pumping wells. Additional data collection is considered necessary to evaluate the impacts of these additional wells on long-term pumping well productivities.

4.0 POTENTIAL FUTURE EVALUATION OF TW4-19 AND TW4-24 WELL EFFICIENCIES

Should continued monitoring indicate that the reduced productivities at TW4-19 and TW4-24 need to be addressed, the wells will be tested for reduced efficiency. Reduced efficiency would likely be related to partial clogging of well screens. Step-rate pumping tests may be conducted as part of this evaluation.

5.0 REFERENCES

HGC, 2004. Final Report. Long Term Pumping at MW-4, TW4-15, and TW4-19. White Mesa Uranium Mill Near Blanding, Utah. May 26, 2004.

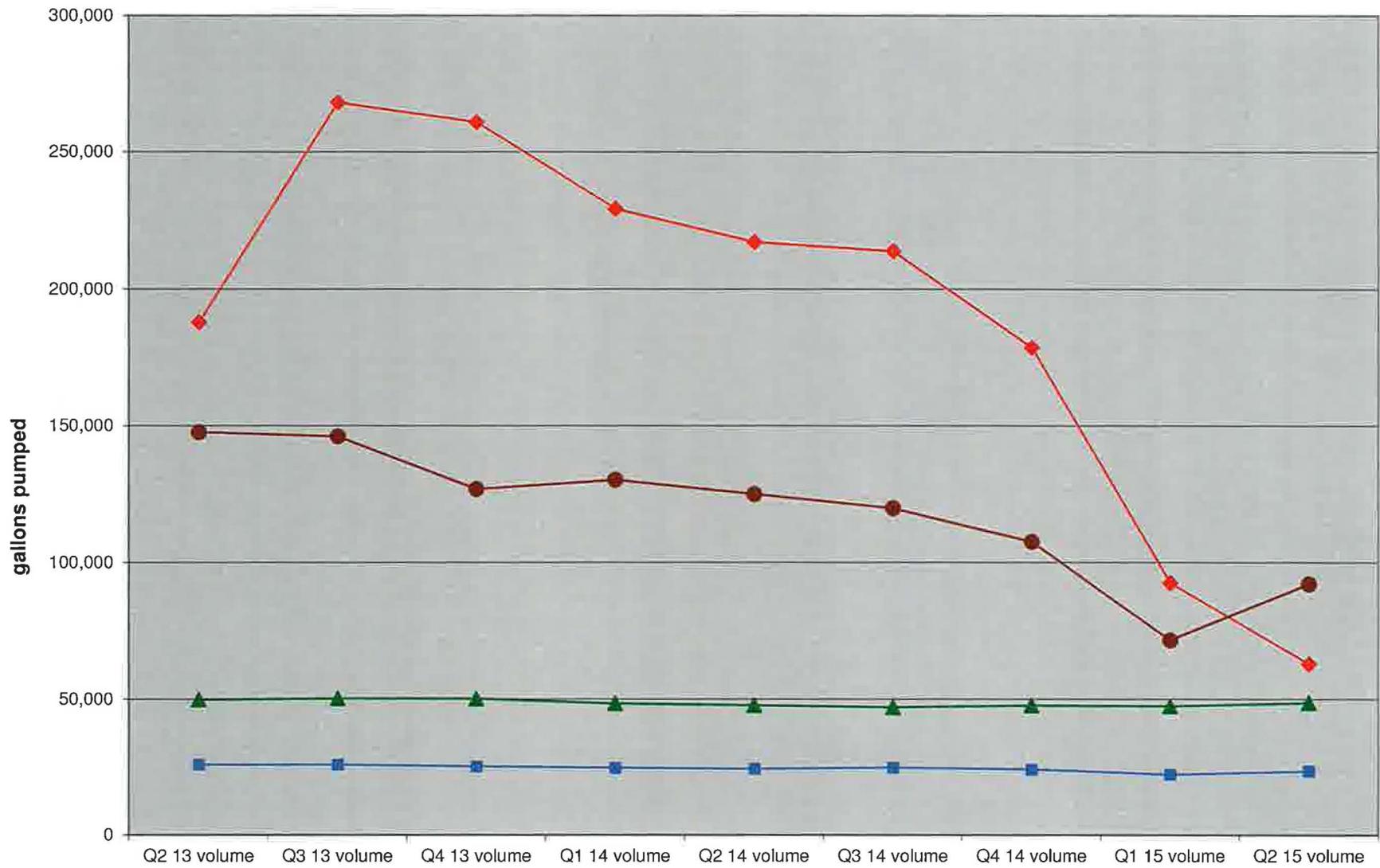
Table N.1
comparison of transmissivity and saturated thickness estimates

observation well	average 2003 saturated thickness (ft)	average 2015 saturated thickness (ft)	% difference	2003 T estimate (ft ² /day)	2015 T estimate (ft ² /day)	% difference
TW4-5	62	48	-23	87	46	-47
TW4-9	63	49	-22	71	51	-28
TW4-10	64	51	-20	46	47	2
TW4-16	79	67	-15	18	9	-50
TW4-18	80	65	-19	74	66	-11
average	70	56	-20	59	44	-27

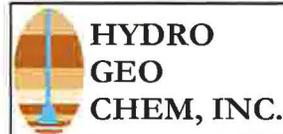
Notes:

average saturated thickness = average of TW4--19 and observation well saturated thicknesses

T = transmissivity in feet squared per day (assuming confined analysis)

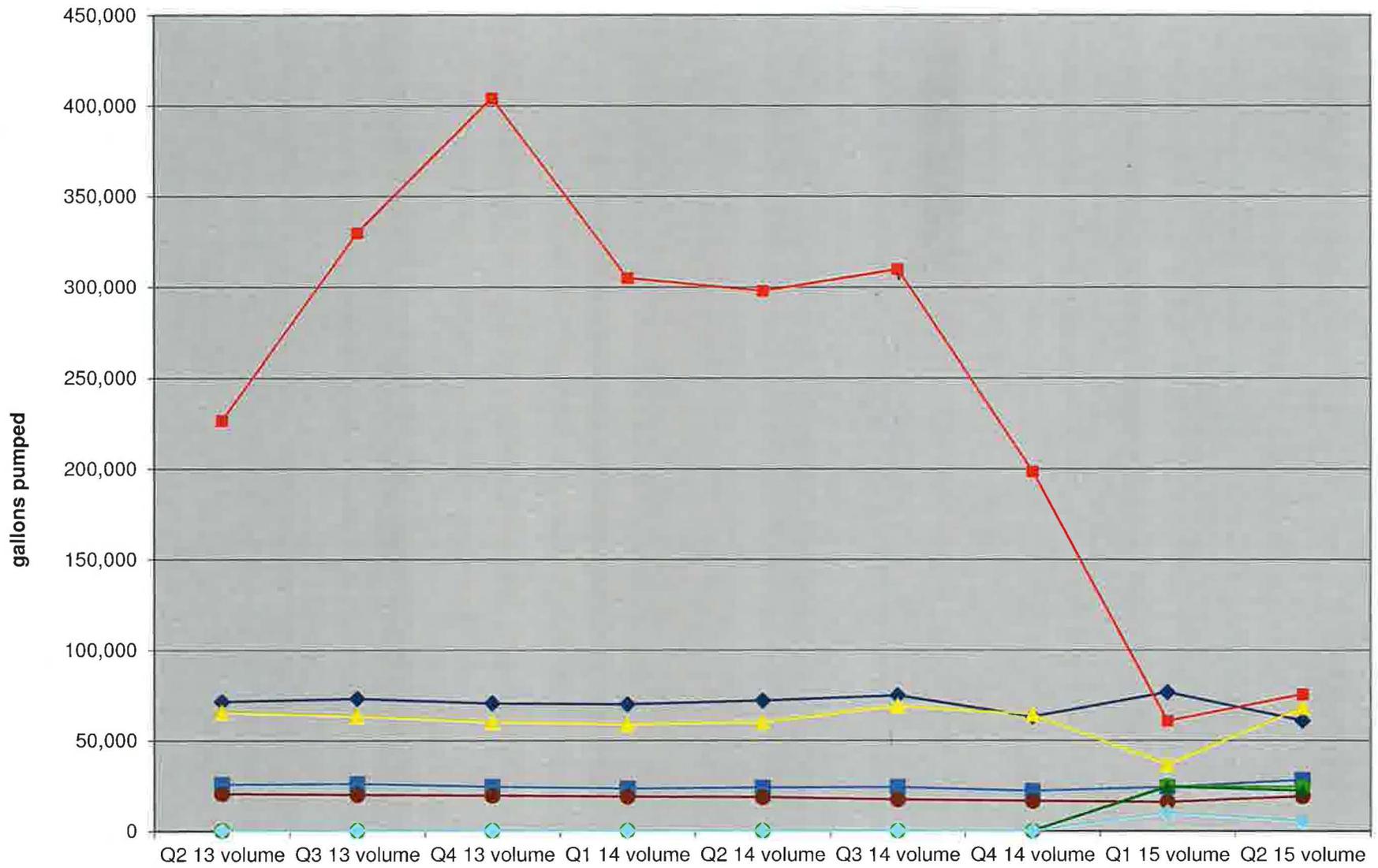


■ TW4-22 ◆ TW4-24
● TW4-25 ▲ TWN-2

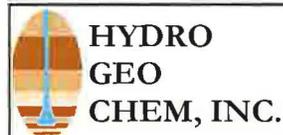


PRODUCTIVITY OF NITRATE PUMPING WELLS

Approved	Date	Author	Date	File Name	Figure
SJS	10/9/15	SJS	10/9/15	N pump	N.1

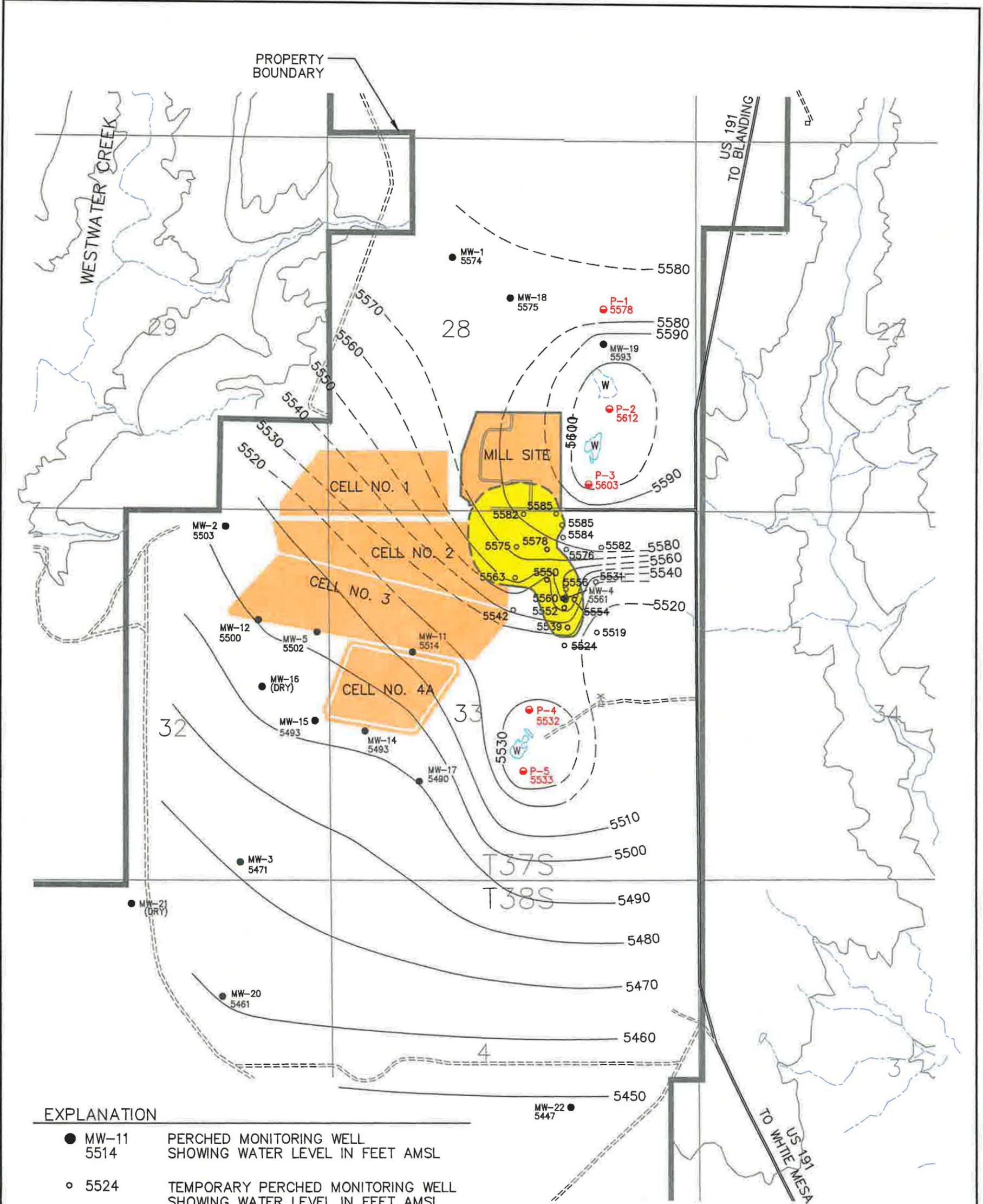


- ◆ MW-4 ■ MW-26 ▲ TW4-4
- TW4-19 ● TW4-20 ● TW4-1
- ▲ TW4-2 ◆ TW4-11



**PRODUCTIVITY OF
CHLOROFORM PUMPING WELLS**

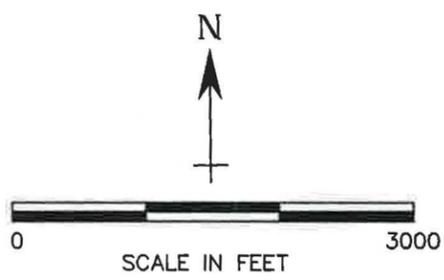
Approved SJS	Date 10/9/15	Author SJS	Date 10/9/15	File Name chl pmp	Figure N.2
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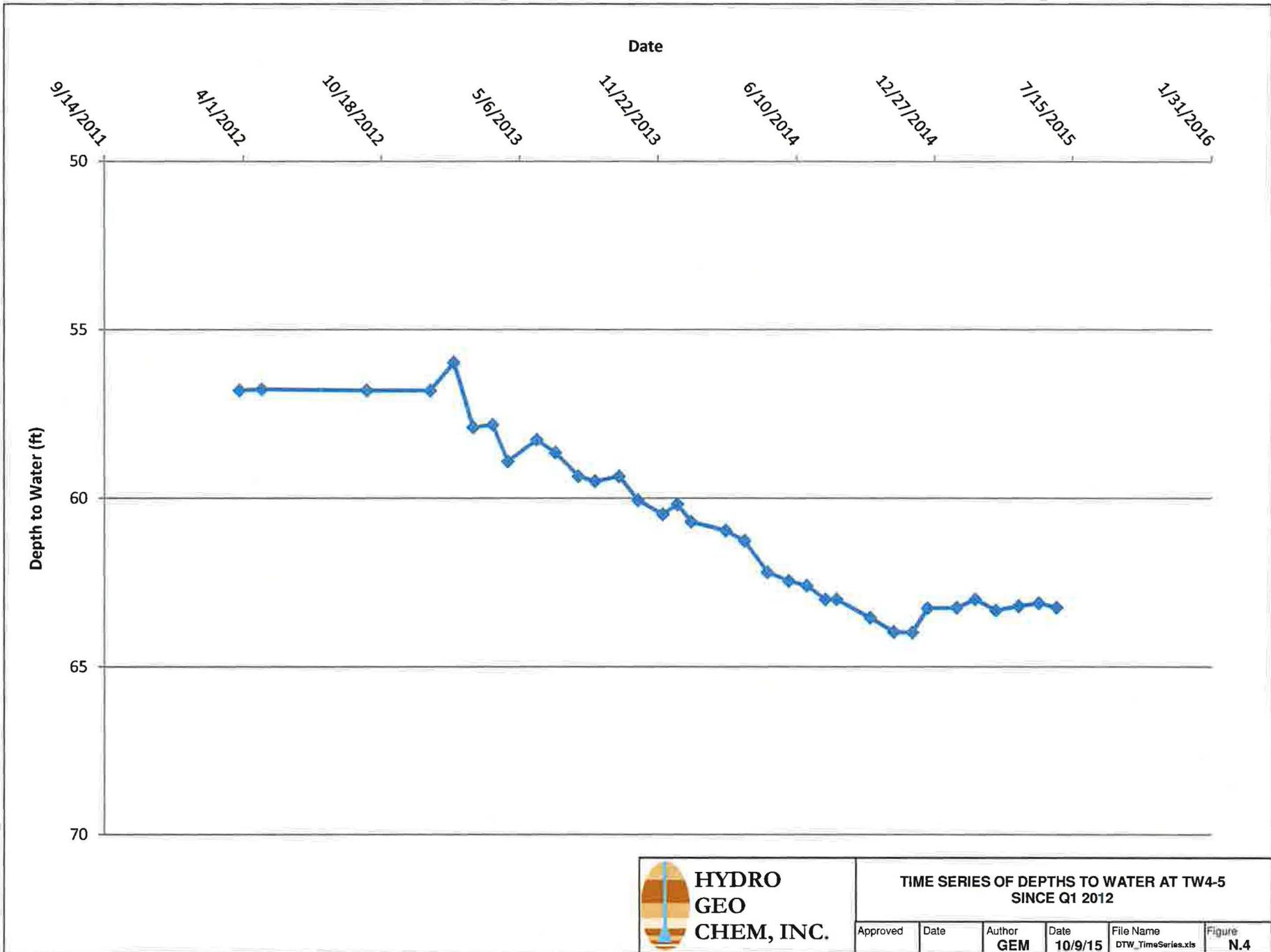
EXPLANATION

- MW-11 5514 PERCHED MONITORING WELL SHOWING WATER LEVEL IN FEET AMSL
- 5524 TEMPORARY PERCHED MONITORING WELL SHOWING WATER LEVEL IN FEET AMSL
- P-5 5533 PIEZOMETER SHOWING WATER LEVEL IN FEET AMSL
- 5580 WATER LEVEL CONTOUR LINE, DASHED WHERE UNCERTAIN
- APPROXIMATE EXTENT OF CHLOROFORM PLUME
- W WILDLIFE POND

NOTE: WATER LEVELS FOR PIEZOMETERS ARE FROM AUGUST, 2002



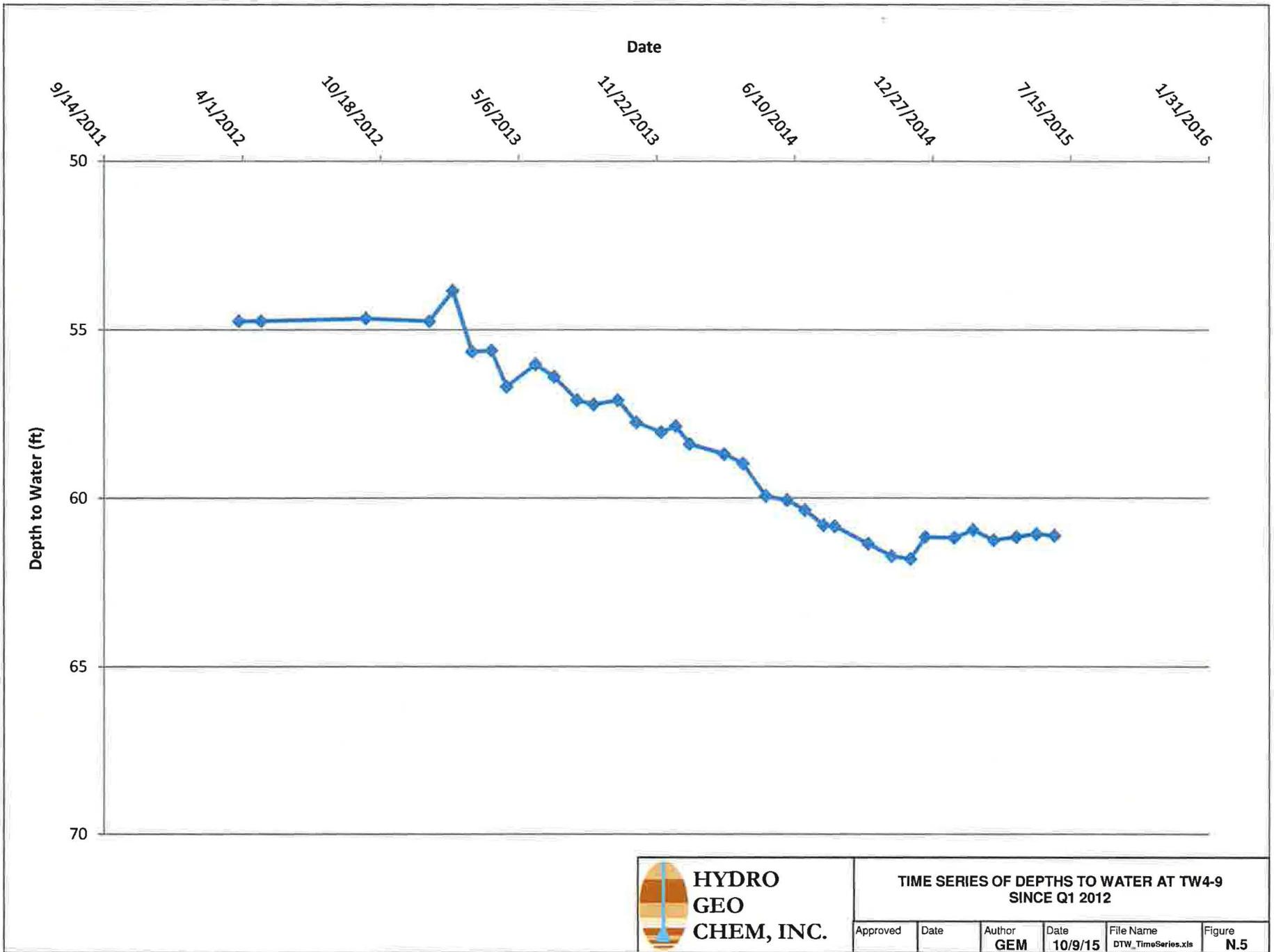
 HYDRO GEO CHEM, INC.	PERCHED WATER LEVELS SHOWING APPROXIMATE EXTENT OF CHLOROFORM PLUME SEPTEMBER 2002				Reference: 718000111A	FIG: N.3
	Approved SS	Date	Revised	Date		

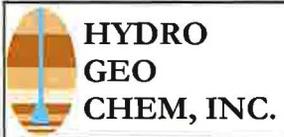
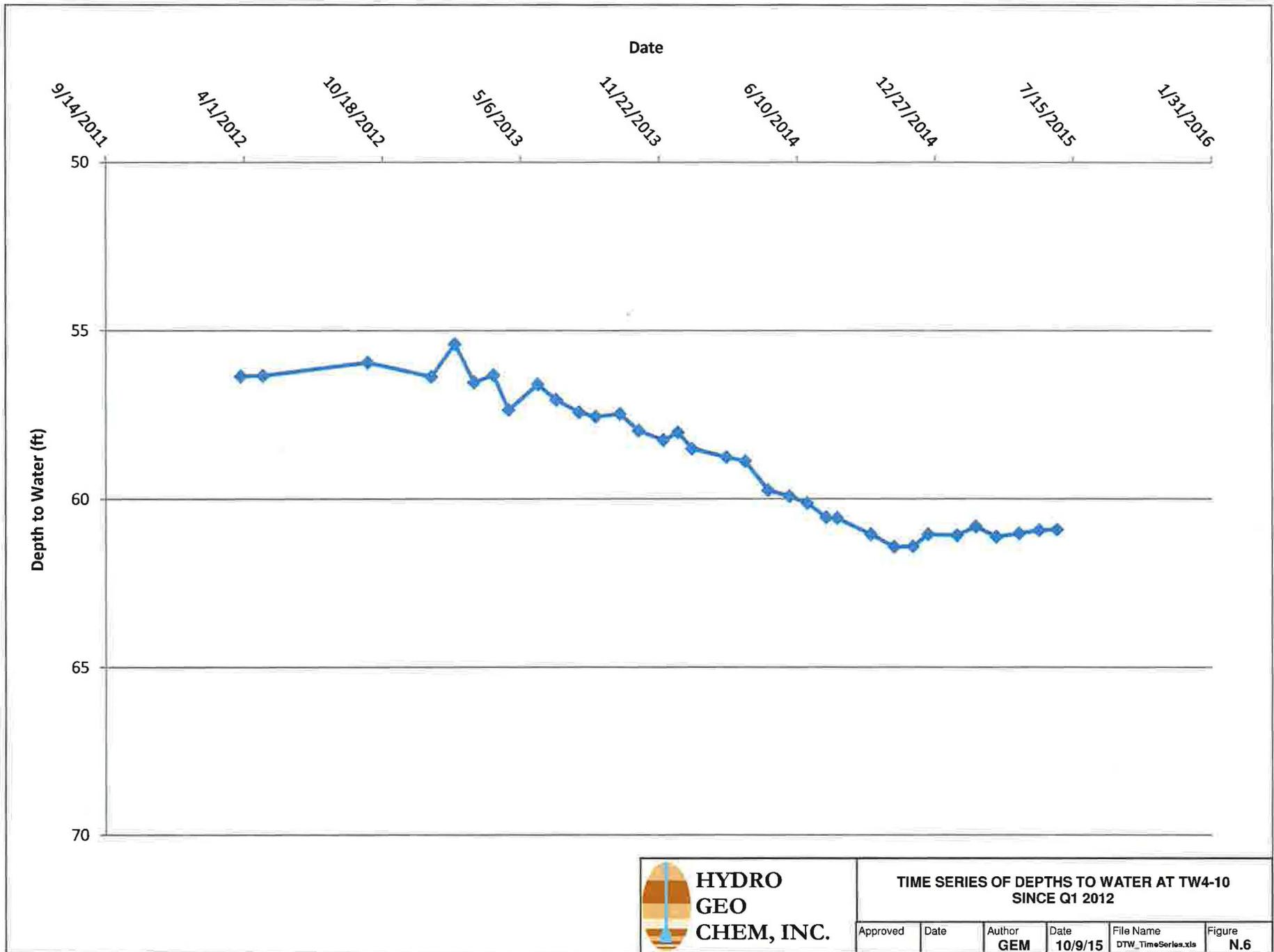


**HYDRO
GEO
CHEM, INC.**

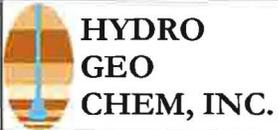
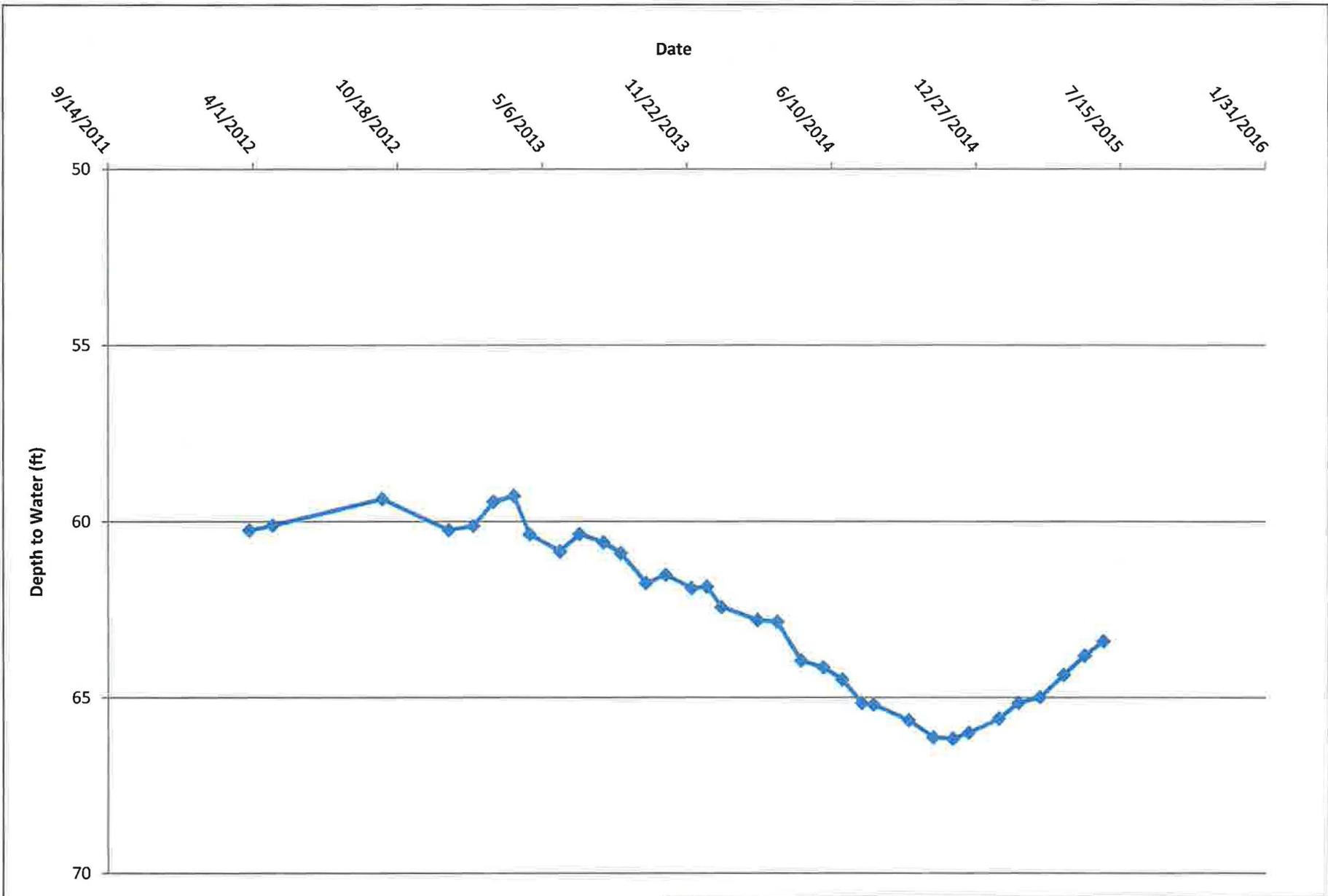
**TIME SERIES OF DEPTHS TO WATER AT TW4-5
SINCE Q1 2012**

Approved	Date	Author	Date	File Name	Figure
		GEM	10/9/15	DTW_TimeSeries.xls	N.4

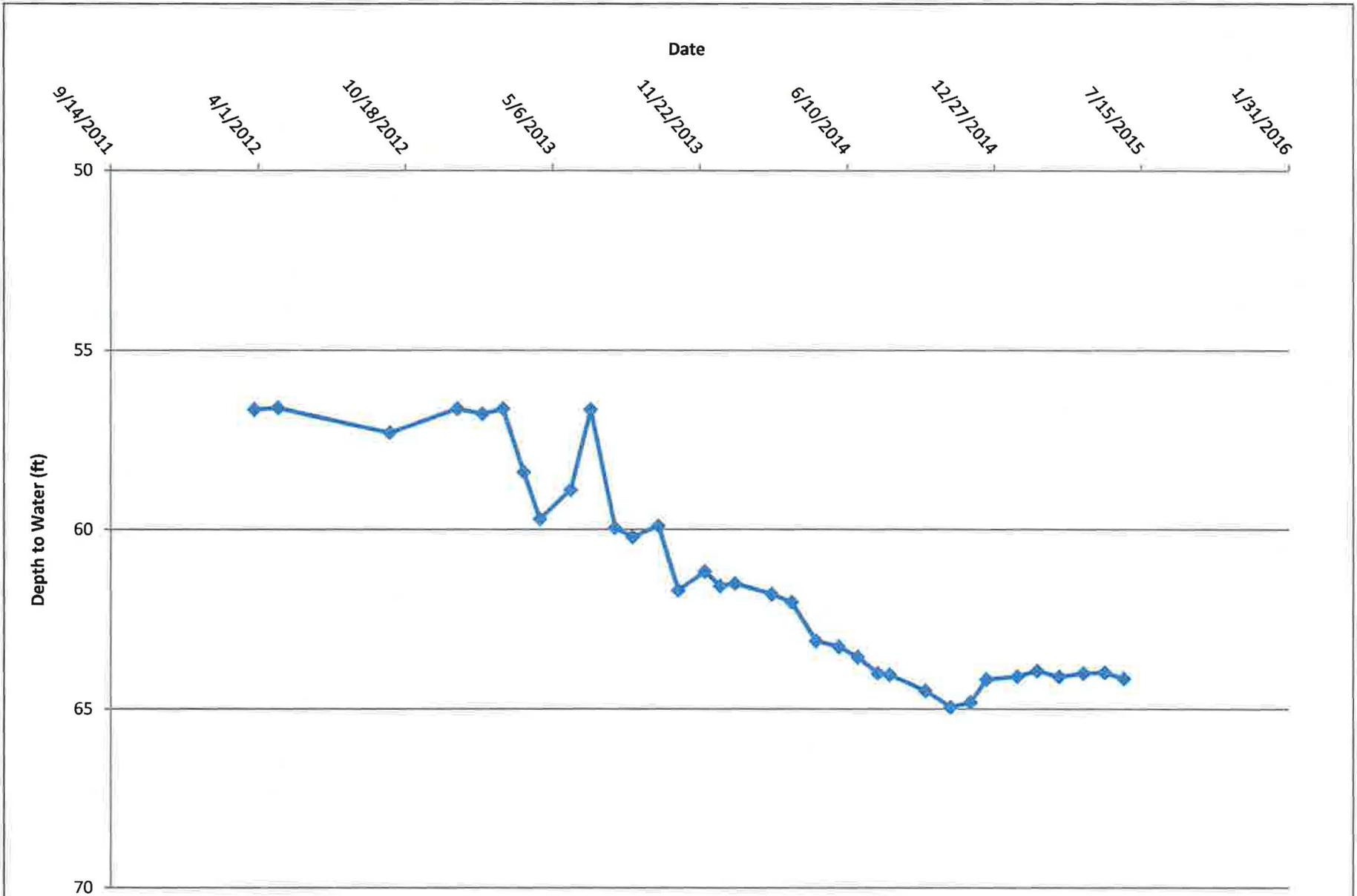


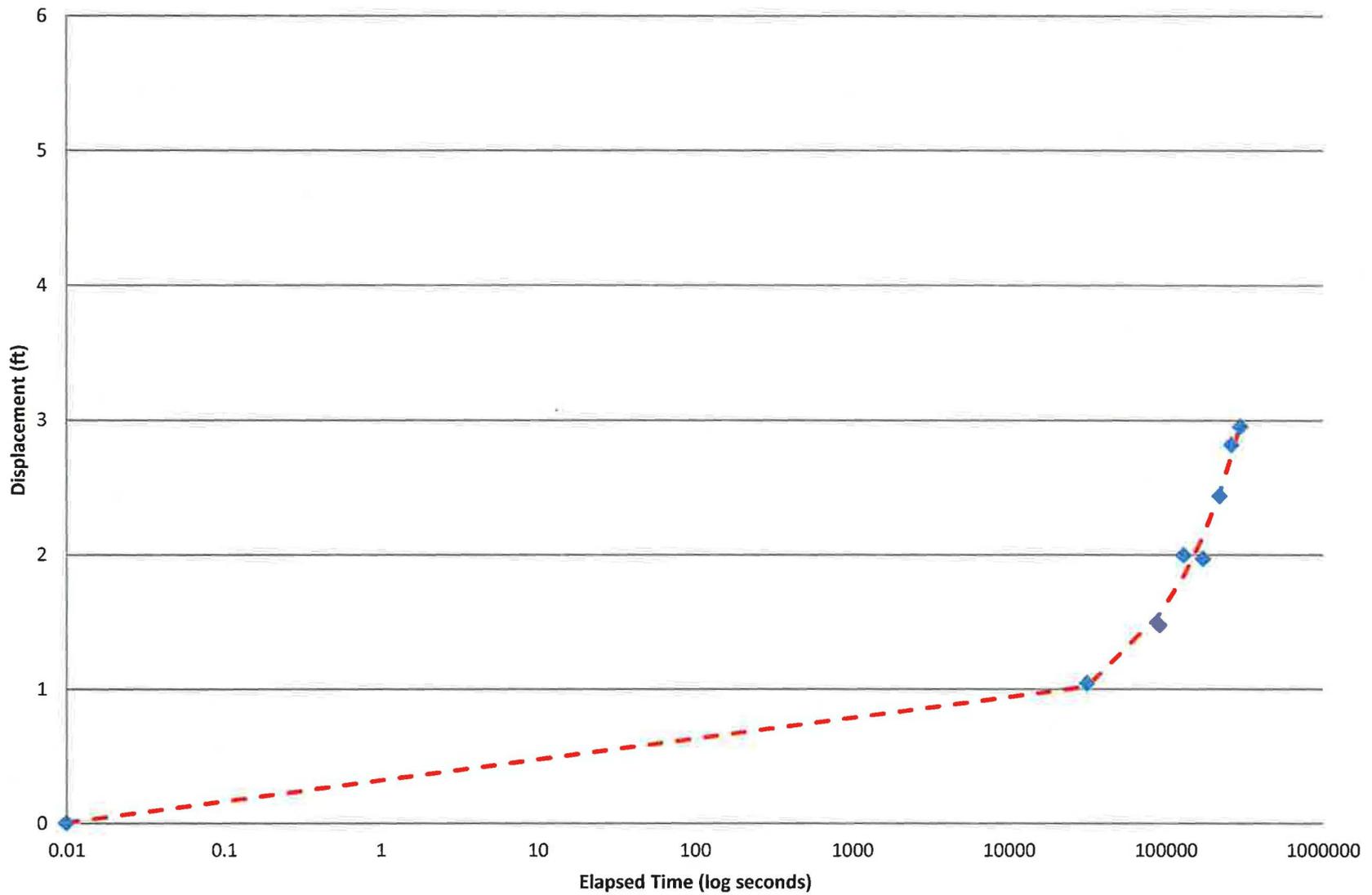


TIME SERIES OF DEPTHS TO WATER AT TW4-10 SINCE Q1 2012					
Approved	Date	Author	Date	File Name	Figure
		GEM	10/9/15	DTW_TimeSeries.xls	N.6



TIME SERIES OF DEPTHS TO WATER AT TW4-16 SINCE Q1 2012					
Approved	Date	Author	Date	File Name	Figure
		GEM	10/9/15	DTW_TimeSeries.xls	N.7



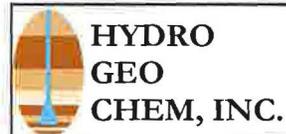


Results

Transmissivity = 45.9 ft²/d

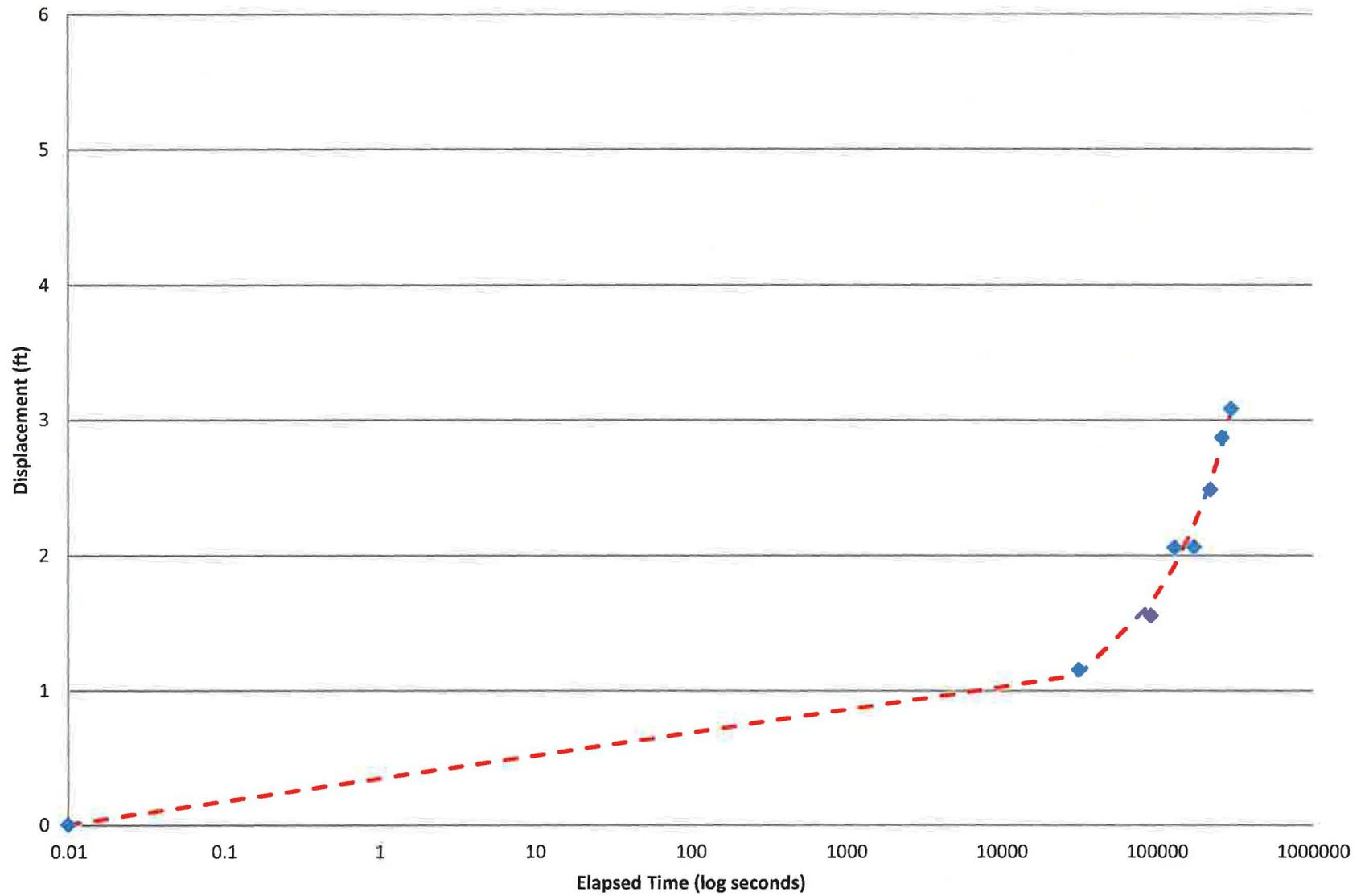
Storativity = 2.86E-04

◆ Observed
 - - - Simulated



OBSERVED AND SIMULATED WATER LEVEL DISPLACEMENTS IN TW4-5 SINCE Q4 2014

Approved	Date	Author	Date	File Name	Figure
		GEM	10/8/15		N.9

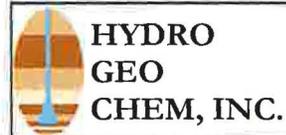


Results

Transmissivity = 50.8 ft²/d

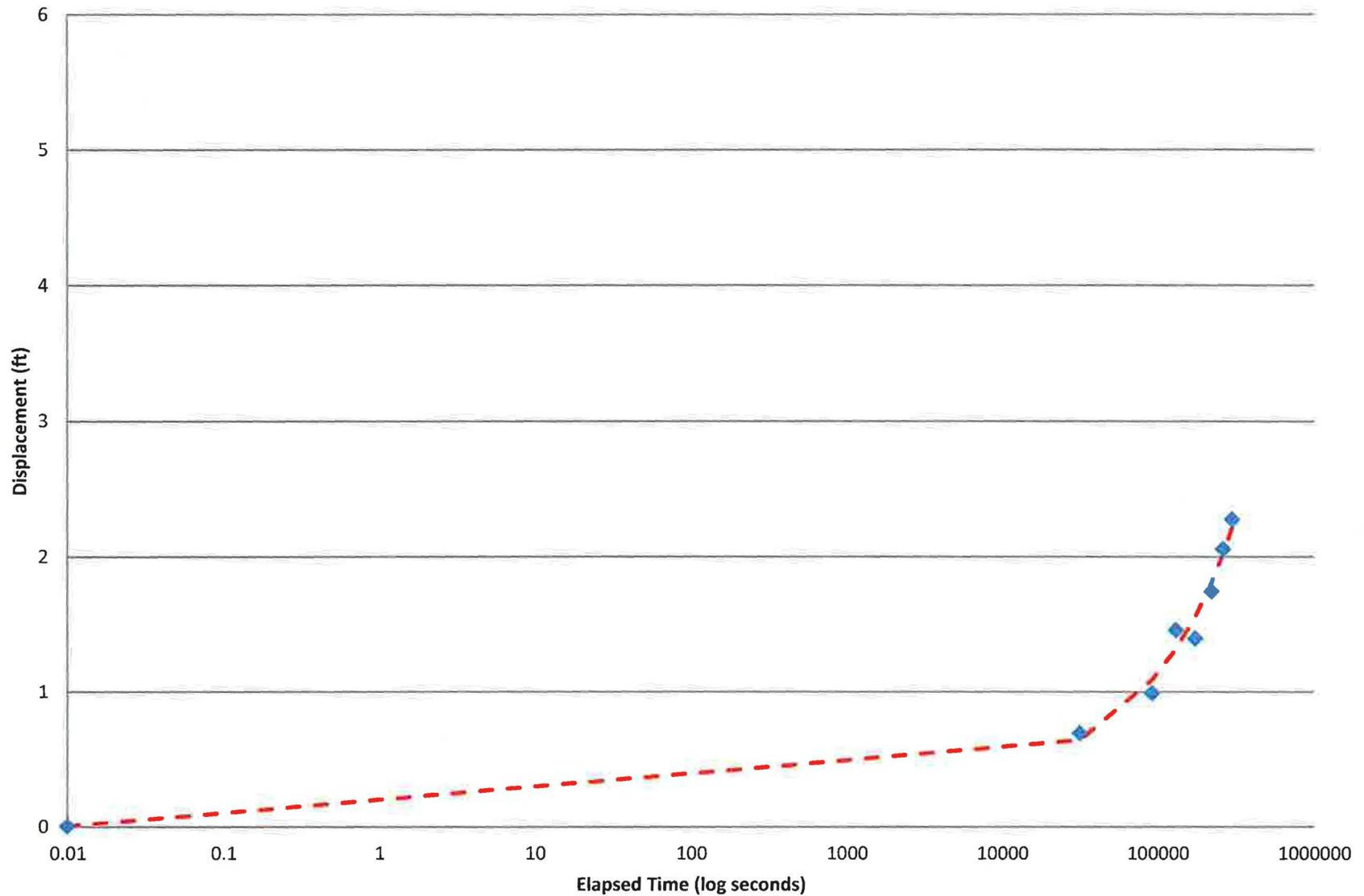
Storativity = 1.23E-04

◆ Observed
 - - - Simulated



OBSERVED AND SIMULATED WATER LEVEL DISPLACEMENTS IN TW4-9 SINCE Q4 2014

Approved	Date	Author	Date	File Name	Figure
		GEM	10/8/2015		N.10



Results

Transmissivity = 47.4 ft²/d

Storativity = 8.98E-04

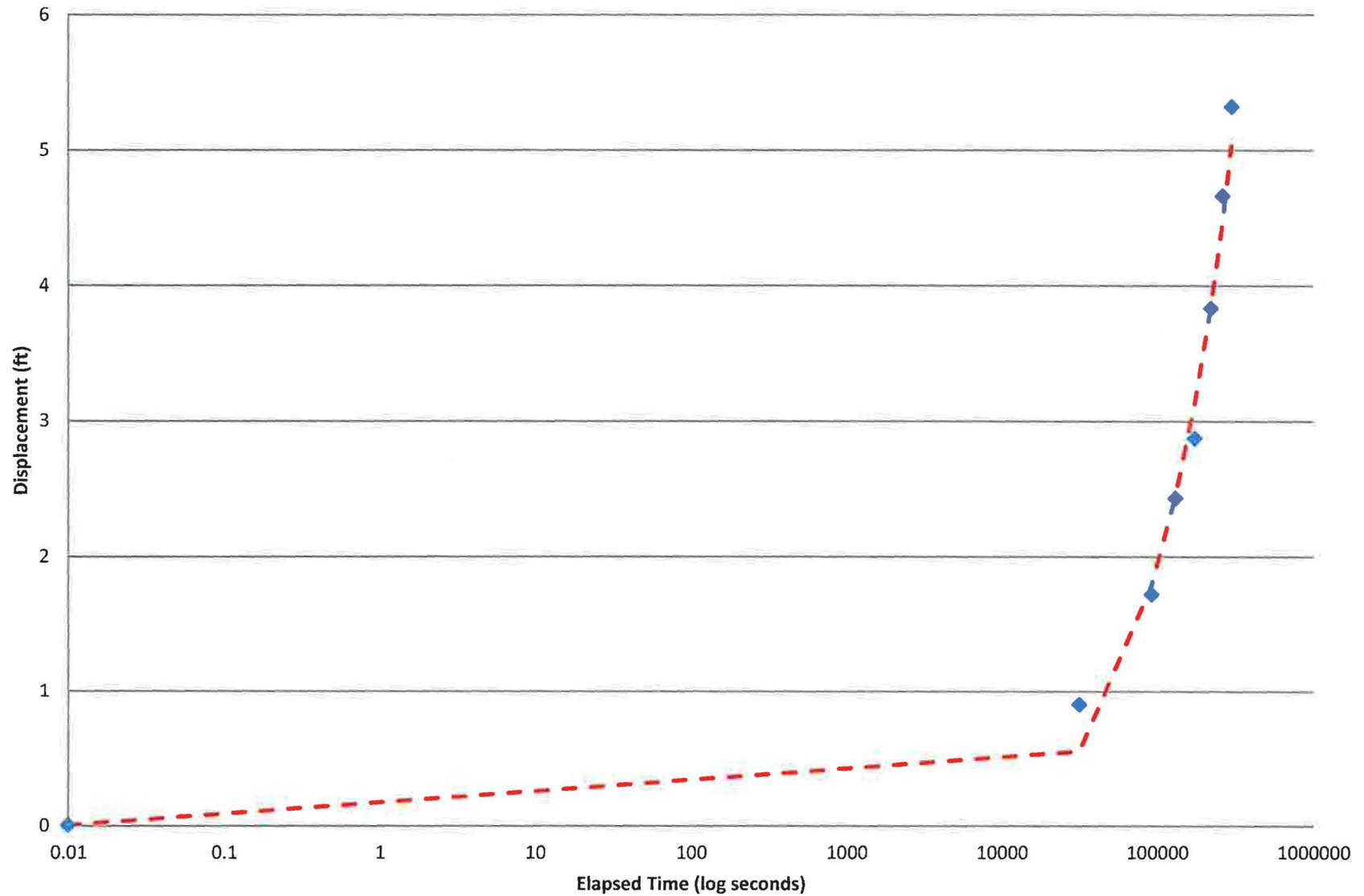
- ◆ Observed
- - - Simulated



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CHEM, INC.**

**OBSERVED AND SIMULATED WATER LEVEL
DISPLACEMENTS IN TW4-10 SINCE Q4 2014**

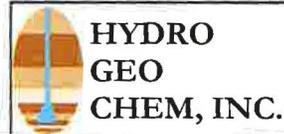
Approved	Date	Author	Date	File Name	Figure
		GEM	10/8/2015		N.11



Results

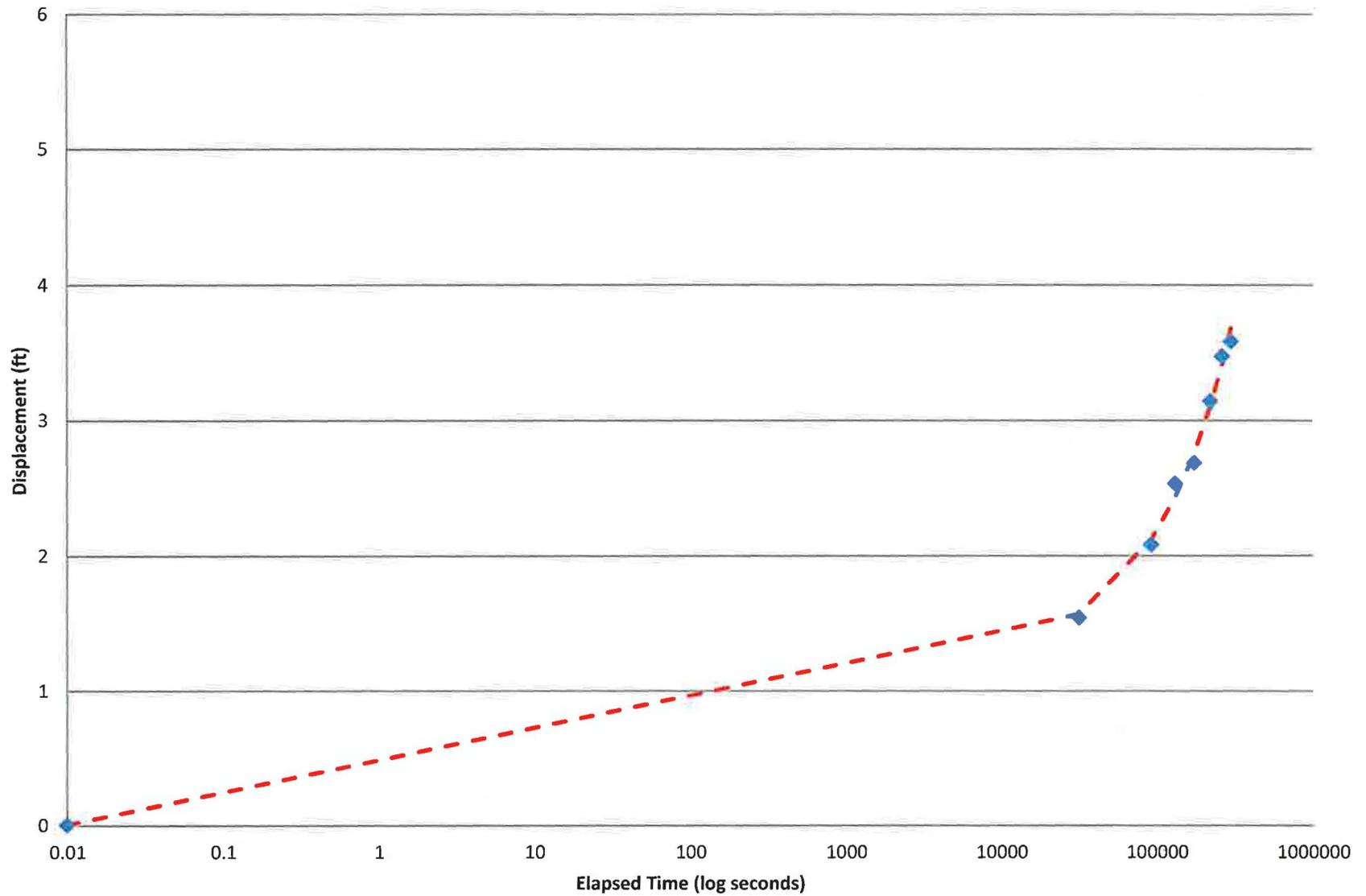
Transmissivity = 9.2 ft²/d
 Storativity = 7.23E-04

◆ Observed
 - - - Simulated



OBSERVED AND SIMULATED WATER LEVEL DISPLACEMENTS IN TW4-16 SINCE Q4 2014

Approved	Date	Author	Date	File Name	Figure
		GEM	10/8/2015		N.12

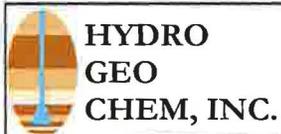


Results

Transmissivity = 65.7 ft²/d

Storativity = 1.29E-05

- ◆ Observed
- - - Simulated



OBSERVED AND SIMULATED WATER LEVEL DISPLACEMENTS IN TW4-18 SINCE Q4 2014

Approved	Date	Author	Date	File Name	Figure
		GEM	10/8/2015		N.13