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May 19, 2016

**Sent VIA OVERNIGHT DELIVERY**

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

**Re: Transmittal of 1st Quarter 2016 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 1st Quarter of 2016 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 blue ink that reads 'Kathy Weinel'.

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

CC: David C. Frydenlund  
Harold R. Roberts  
David E. Turk  
Logan Shumway  
Scott Bakken

**White Mesa Uranium Mill**  
**Chloroform Monitoring Report**

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

**1st Quarter**  
**(January through March)**  
**2016**

Prepared by:



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

**May 19, 2016**

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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 first quarter of 2016 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 H<sub>2</sub>SO<sub>4</sub>;
- 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, TW4-7, TW4-8, TW4-9, TW4-12, TW4-16, MW-32, TW4-18, TW4-23, TW4-28, 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, TW4-10, TW4-13, TW4-14, TW4-26, TW4-27, 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 TW4-7, TW4-9, TW4-11, TW4-12, TW4-16, MW-32, TW4-18, TW4-23, TW4-28, and TW4-32 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 temperatures 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 south of the tailings cells. 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 disrupts the generally southwesterly flow pattern, to the extent that locally northerly flow occurs 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 during the second quarter of 2015 (TW4-21 and TW4-37). The overall impact is expected to be generally higher constituent concentrations in these wells over 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 TW4-37, which began pumping during the second quarter of 2015. Although operation of chloroform pumping well TW4-4 has depressed the water table in the vicinity of TW4-4, a well-defined cone of depression is not clearly evident. The lack of a well-defined cone of depression near TW4-4 likely results from 1) variable permeability conditions in the vicinity of TW4-4, and 2) persistent relatively low water levels at adjacent well TW4-14. The lack of a well-defined cone of depression near TW4-37 likely results from recent start-up and close proximity to other pumping wells.

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 and southeast (downgradient) 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 and southeast of TW4-4. As will be discussed below, the permeability of the perched zone at TW4-6 and TW4-26, and relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, and TW4-35 is one to two orders of magnitude lower than at TW4-4, and the permeability at TW4-27 is approximately three orders of magnitude lower than at TW4-4. Detecting water level drawdowns in wells immediately south and southeast of TW4-4 resulting from TW4-4 pumping has also been difficult because of the general, long-term increase in water levels in this area attributable to past wildlife pond recharge.

Between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to the start of TW4-4 pumping), water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet 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.

Since the fourth quarter of 2013, water levels in all wells currently within the chloroform plume south of TW4-4 (TW4-6, TW4-29, and TW4-33) have been trending downward. This downward trend is attributable to the cessation of water delivery to the northern wildlife ponds and pumping. However, water level trends have been upward in many wells located at the margin of the chloroform plume southeast of TW4-4 (TW4-14, TW4-27, TW4-30, and TW4-31). These wells appear as yet to be responding to past wildlife pond recharge and expansion of the groundwater mound.

These spatially variable water level trends likely result from pumping conditions, the permeability distribution, and distance from the wildlife ponds. Wells that are relatively hydraulically isolated (due to completion in lower permeability materials or due to intervening lower permeability materials) and that are more distant from pumping wells and the ponds, are expected to respond more slowly to pumping and reduced recharge than wells that are less hydraulically isolated and are closer to pumping wells and the ponds. Wells that are more hydraulically isolated will also respond more slowly to changes in pumping.

The lack of a well-defined cone of depression at TW4-4 is also influenced by the persistent, relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. For the current quarter, the water level at TW4-14 (approximately 5533.2 feet above mean sea level ["ft amsl"]), is more than 3 feet lower than the water level at TW4-6 (approximately 5536.8 ft amsl) and approximately 7 feet lower than the water level at TW4-4 (approximately 5540.4 ft amsl), even though TW4-4 is pumping. However, water level differences among these wells are diminishing.

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 5528.6 ft amsl) is 4.6 feet lower than the water level at TW4-14 (5533.2 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 resulting 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 relatively 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. This suggested that TW4-26 was actually downgradient of TW4-6, and TW4-6 was actually downgradient of TW4-4, regardless of the flow direction implied by the low water level at TW4-14. The water level at TW4-26 (5535.2 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5536.8 feet amsl), and TW4-23 (5538.3 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). Past similarity of water levels at TW4-14 and TW4-27, and the low permeability estimate at TW4-27, suggested that both wells were completed in materials having lower permeability than nearby wells. The low permeability condition likely reduced the rate of long-term water level increase at TW4-14 and TW4-27 compared to nearby wells, yielding water levels that appeared anomalously low. This behavior is consistent with hydraulic test data collected from relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34 and TW4-35, which indicate that the permeability of these wells is one to two orders of magnitude higher than the permeability of TW4-27 (see: HGC, January 23, 2014, Contamination Investigation Report, TW4-12 and TW4-27 Areas, White Mesa Uranium Mill Near Blanding, Utah; and HGC, July 1, 2014, Installation and Hydraulic Testing of TW4-35 and TW4-36, White Mesa Uranium Mill Near Blanding, Utah [As-Built Report]). Hydraulic tests also indicate that the permeability at TW4-36 is slightly higher than but comparable to the low permeability at TW4-27, suggesting that TW4-36, TW4-14 and TW4-27 are completed in a continuous low permeability zone.

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, TW4-14 and TW4-27 remain outside the plume with first quarter, 2016 chloroform concentrations of 4.5 µg/L and 2.1 µg/L, respectively.

Chloroform exceeding 70 µg/L detected at TW4-29 and TW4-33 since their relatively recent installation in 2013 indicates that, in addition to migrating south from TW4-4 to TW4-6 and TW4-26, chloroform also migrated along a narrow path to the southeast from the vicinity of TW4-4 to TW4-33 then TW4-29. Such migration was in a direction nearly cross-gradient with respect to the direction of groundwater flow implied by the historic groundwater elevations in this area, which until relatively recently, placed TW4-14 almost directly downgradient of TW4-4. Such migration was historically possible because the water levels at TW4-29 have been lower than the water levels at TW4-4 (and TW4-6). The permeability and historic water level distributions are generally consistent with the apparent nearly cross-gradient migration of chloroform from TW4-4 around the low permeability zone defined by TW4-36, TW4-14, and TW4-27.

Chloroform during the current quarter was detected at only approximately 5.2 µg/L at relatively recently installed well TW4-30 (located east and downgradient of TW4-29), and was not detected at relatively recently installed wells TW4-31 (located east of TW4-27), TW4-34 (located south and cross-gradient of TW4-29), nor TW4-35 (located southeast and cross- to downgradient of TW4-29).

Data from existing and relatively 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 cross- to upgradient of TW4-29; and TW4-27, TW4-34 and TW4-35 are 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 eventually 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.

Relatively stable chloroform at TW4-33 and generally increasing concentrations at TW4-29 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with generally decreasing water levels at both TW4-29 and TW4-33.

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume (defined by TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27.

#### **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 fourth quarter of 2015, as submitted with the Chloroform Monitoring Report for the fourth quarter of 2015, is attached under Tab E.

A comparison of the water table contour maps for the current quarter (first quarter of 2016) to the water table contour maps for the previous quarter (fourth quarter of 2015) indicates similar

patterns of drawdowns associated with pumping wells. A significant cone of depression associated with relatively new chloroform pumping well TW4-37 is not yet evident. Drawdowns at chloroform pumping wells MW-4, TW4-1, and nitrate pumping well TWN-2 increased by 2 or more feet this quarter. Drawdowns at chloroform pumping well TW4-2 and nitrate pumping wells TW4-22 and TW4-24 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. Water levels in nitrate pumping wells showed both increases (decreases in drawdown) and decreases (increases 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 9.0, 2.0, and 3.6 feet occurred in chloroform pumping wells MW-4, TW4-1, and nitrate pumping well TWN-2, respectively. Increases in water level (decreases in drawdown) of approximately 3.9, 2.1, and 2.8 feet were reported for chloroform pumping well TW4-2 and nitrate pumping wells TW4-22 and TW4-24, 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 MW-26, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, and TW4-37, and nitrate pumping well TW4-25) 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 pumping system is approximately the same as last quarter.

Reported water level decreases of up to 0.37 feet at Piezometers 1, 2, 4, and 5, TWN-1, and TWN-4 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 0.2 feet and 0.3 feet at Piezometers 4 and 5, respectively, may also result from reduced recharge at the southern wildlife pond.

Reported water levels increased by approximately 3.9 feet, 3 feet, and 6 feet at MW-20, MW-23, and MW-37, respectively, approximately compensating for the decreases reported last quarter. Water level variability at these wells is likely the result of low permeability and variable intervals between purging/sampling and water level measurement. Measurable water was again reported at DR-22. Although DR-22 is typically dry, measurable water has been reported in the bottom of its casing since the second quarter of 2015.

### 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, since the first half of 2015, wells TW4-1, TW4-2, TW4-11, TW4-21, and TW4-37. 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, and at TW4-21 which began pumping during the second quarter of 2015. A cone of depression in the vicinity of chloroform pumping well TW4-37, which began pumping during the second quarter of 2015, is 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, TW4-4, TW4-11, and TW4-19 decreased by approximately 9.0, 2.0, 1.3, 1.2, and 1.1 feet respectively, while the water levels in chloroform pumping wells MW-26, TW4-2, TW4-20, TW4-21 and TW4-37 increased by approximately 0.8, 3.9, 0.4, 1.9, and 1.6 feet, respectively. The water level in nitrate pumping well TWN-2 decreased by approximately 3.6 feet while the water levels in

nitrate pumping wells TW4-22, TW4-24, and TW4-25 increased by approximately 2.1, 2.8, and 1.0 feet, respectively. Overall, the apparent capture of the combined pumping systems 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 was discussed in Attachment N (Tab N) of the third quarter, 2015 report. The report also included a discussion of the effectiveness of chloroform pumping on chloroform capture. 'Background' flow through the chloroform plume was calculated in Attachment N as approximately 3.3 gpm. A more refined 'background' flow calculation of 3.4 gpm was provided in the CACME Report (See HGC, March 31, 2016: Corrective Action Comprehensive Monitoring Evaluation Report, White Mesa Uranium Mill, Near Blanding, Utah).

Pumping from the chloroform plume during the current quarter (from wells MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, and TW4-37) is approximately 4.6 gpm, which exceeds the calculated background flow by 1.2 gpm or 35%. Therefore chloroform pumping is considered adequate at the present time even with the reduced productivities of TW4-19 and TW4-24. In addition, because of continued reductions in saturated thicknesses and hydraulic gradients resulting from reduced wildlife pond recharge, 'background' flow through the plume is expected to continue to diminish, thereby reducing the pumping needed to control the plume.

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 634 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 decreased slightly from 843 µg/L to 834 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  $\mu\text{g/L}$  to 10.3  $\mu\text{g/L}$ , and in TW4-26 from 13  $\mu\text{g/L}$  to 4.2  $\mu\text{g/L}$ , 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  $\mu\text{g/L}$  in the second quarter of 2004 to less than 70  $\mu\text{g/L}$  by the fourth quarter of 2005, and maintained concentrations below 70  $\mu\text{g/L}$  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 has expanded since initiation of pumping at wells TW4-1, TW4-2, and TW4-11 during the first quarter of 2015, and wells TW4-21 and TW4-37 during the second quarter of 2015. Operation of these additional wells may have reversed the increase in concentration at TW4-16 which dropped from 387  $\mu\text{g/L}$  in the fourth quarter of 2014 to less than 70  $\mu\text{g/L}$  in the second quarter of 2015. Chloroform at TW4-16 was detected at 46  $\mu\text{g/L}$  this quarter.

Chloroform exceeding 70  $\mu\text{g/L}$  was detected at relatively 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  $\mu\text{g/L}$  detected at relatively 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. As

discussed in Section 4.1.1, although decreasing concentration trends at both wells are eventually expected to occur, relatively stable chloroform at TW4-33 and recent increases in concentration at TW4-29 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with generally decreasing water levels at both TW4-29 and TW4-33.

In addition, detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume into the low permeability materials penetrated by these wells.

Chloroform analytical results from relatively 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: MW-26, TW4-14, TW4-20, TW4-27, and TW4-30;
- b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: TW4-16, TW4-26 and TW4-29;

- c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-1, TW4-2, TW4-4, TW4-5, TW4-6, TW4-7, TW4-8, TW4-9, TW4-10, TW4-11, TW4-18, TW4-19, TW4-21, TW4-22, TW4-24, TW4-33, and TW4-37;
- 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.

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, TW4-14, TW4-16, TW4-20, TW4-26, TW4-27, TW4-29 and TW4-30 had changes in concentration greater than 20%. Of these, MW-26 and TW4-20 are chloroform pumping wells 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. TW4-14 and TW4-27 are located immediately east of the plume boundary. Currently, TW4-14 is located cross- to downgradient of TW4-4, and TW4-27 is generally downgradient of TW4-33. TW4-29 is located within the extreme southeast portion of the plume and TW4-30 is located just outside the plume boundary immediately east (and downgradient) of TW4-29. Fluctuations in concentrations at these wells are expected based on their locations at the plume margins.

Chloroform pumping wells TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 21,600, 17,500, and 6,070  $\mu\text{g/L}$ , respectively. Since the last quarter, the chloroform concentration in TW4-20 increased from 17,000  $\mu\text{g/L}$  to 21,600  $\mu\text{g/L}$ , the concentration in adjacent pumping well TW4-19 decreased slightly from 7,840 to 7,780  $\mu\text{g/L}$ , and the concentration in nearby pumping well TW4-21 increased from 339 to 390  $\mu\text{g/L}$ . The chloroform concentration in nitrate pumping well TW4-22 decreased from 7,530  $\mu\text{g/L}$  to 6,070  $\mu\text{g/L}$ . The chloroform concentration in nitrate pumping well TW4-24 decreased from 25.3 to 22.8  $\mu\text{g/L}$ , and remains outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, bounds 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 from 770  $\mu\text{g/L}$  to 634  $\mu\text{g/L}$ . TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,240  $\mu\text{g/L}$ . 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 (4.5 µg/L). The increase in chloroform at TW4-14 from approximately 1.5 µg/L to 4.5 µg/L, and at TW4-27 from approximately 1.6 µg/L to approximately 2.1 µg/L, is consistent with ongoing, but slow, downgradient migration.

Chloroform at relatively 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 substantially from 631 µg/L to 335 µg/L. Chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 3.5 µg/L to approximately 5.2 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 (2.1 µg/L), to the east by TW4-30 (5.2 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 (1.8 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a slight decrease in concentration, from 129 µg/L to 122 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (4.5 µg/L), to the east by TW4-27 (2.1 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (1.8 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 decreased to 834 µg/L, and remains 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 µg/L to 10.3 µg/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 µg/L within only 2 quarters whereas 16 quarters were required for concentrations in TW4-6 to increase from non-detect to only 81 µg/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 relatively 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 TW4-9 (which is just inside the plume this quarter), and a contraction near TW4-16 (which is again outside the plume). The chloroform concentration at TW4-9 increased from approximately 68 µg/L to 74 µg/L, bringing TW4-9 back inside the plume for the first time since the fourth quarter of 2014. The plume boundary is now located between TW4-9 and TW4-12 (which is non-detect for chloroform and cross-gradient of TW4-9). The increase is attributable to reduced recharge (and dilution) from the northern wildlife ponds.

Nitrate pumping generally caused the boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Since the first quarter of 2014, 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 in the second quarter of 2015 and reduced productivity at TW4-24 (since the third quarter of 2014). 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 46 µg/L) is again outside the plume. 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 in the second quarter of 2015, is expected to have a beneficial impact. Generally reduced 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 Section 5.4.1.

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

### **5.4.1 TW4-24**

On January 5, 2016, Mill Field Personnel noted during the routine weekly inspection that the flow meter on TW4-24 was malfunctioning. The well continued to pump. The flow meter was replaced. No official notifications to DWMRC were required as the issue was rectified within 24-hours and there was no loss of pumping.

### **5.4.2 TW4-19 and MW-26**

On January 11, 2016, Mill Field Personnel replaced the heat lamps in the TW4-19 and MW-26 enclosures.

The heat lamp replacements noted above did not result in any adverse issues. 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 30.6 lb, which is within about 5% of the approximately 32.3 lb removed last quarter.

The residual mass of chloroform within the plume is estimated as 1,946 lb using the methodology described in Appendix A of the GCAP (“Chloroform Plume Mass Calculation Method”). This is approximately 77 lb more than last quarter’s estimate of 1,869 lb and is attributable to slightly higher average chloroform concentrations within the plume this quarter. 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. Based on the current and last two quarter's estimates, the trend is upward. Subsequent residual plume mass estimates will be calculated quarterly, added to the graph, and the trendline updated 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), TW4-16 (approximately 46 µg/L), TW4-23 (non-detect), TW4-24 (approximately 23 µg/L), and TW4-26 (approximately 2 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 11 µg/L), TW4-12 (non-detect), TW4-13 (non-detect), TW4-14 (approximately 4.5 µg/L), TW4-18 (approximately 57 µg/L), TW4-27 (approximately 2 µg/L), TW4-30 (approximately 5 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 ug/L for two or more quarters.

The compliance well chloroform concentrations were below the 70 ug/L except for TW4-9. As noted above, an exceedance is defined as the presence of chloroform in any compliance monitoring well in excess of 70 ug/L for two or more quarters. The previously reported chloroform concentration for TW4-9 was less than 70 ug/L (68.4 ug/L). Because an exceedance of chloroform in TW4-9 has not been reported two or more consecutive quarters, 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 1,946 lb using the methodology described in Appendix A of the GCAP (“Chloroform Plume Mass Calculation Method”). This is approximately 77 lb more than last quarter’s estimate of 1,869 lb and is attributable to slightly higher average chloroform concentrations within the plume this quarter. The mass of chloroform removed from the plume this quarter is approximately 30.6 lb, which is within about 5% of the approximately 32.3 lb removed last quarter.

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 ug/L. The plume is bounded to the north by TW4-25; to the west and southwest by MW-31, MW-32, TW4-16, TW4-23, TW4-24, and TW4-26; to the east by TW4-3, TW4-5, TW4-12, 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 first quarter, 2016 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 well TW4-37 which began pumping during the second quarter of 2015, 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 during the second quarter of 2015 is also expected to increase capture and chloroform removal rates. Overall capture this quarter is about the same as last quarter.

'Background' flow through the chloroform plume was calculated as approximately 3.4 gpm as presented in CACME Report (See HGC, March 31, 2016: Corrective Action Comprehensive Monitoring Evaluation Report, White Mesa Uranium Mill, Near Blanding, Utah). Pumping from the chloroform plume during the current quarter (from wells MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, and TW4-37) is approximately 4.6 gpm, which exceeds the calculated background flow by 1.2 gpm or 35%. Therefore chloroform pumping is considered adequate at the present time.

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, TW4-14, TW4-16, TW4-20, TW4-26, TW4-27, TW4-29 and TW4-30. Of these, MW-26 and TW4-20 are chloroform pumping wells 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. 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.

TW4-26 is located immediately southwest of the plume boundary. TW4-14 and TW4-27 are located immediately east of the plume boundary. Currently, TW4-14 is located cross- to downgradient of TW4-4, and TW4-27 is generally downgradient of TW4-33. TW4-29 is located within the extreme southeast portion of the plume and TW4-30 is located just outside the plume boundary immediately east (and downgradient) of TW4-29. Fluctuations in concentrations at these wells are expected based on their locations at the plume margins.

Chloroform at TW4-8 (which was non-detect from the first quarter of 2008 through the fourth quarter of 2013) decreased from 770  $\mu\text{g/L}$  to 634  $\mu\text{g/L}$ . TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,240  $\mu\text{g/L}$ . 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 (4.5  $\mu\text{g/L}$ ). The increase in chloroform at TW4-14 from approximately 1.5  $\mu\text{g/L}$  to 4.5  $\mu\text{g/L}$ , and at TW4-27

from approximately 1.6 µg/L to approximately 2.1 µg/L, is consistent with ongoing, but slow, downgradient chloroform migration.

Chloroform pumping wells TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 21,600, 17,500, and 6,070 µg/L, respectively. Since the last quarter, the chloroform concentration in TW4-20 increased from 17,000 µg/L to 21,600 µg/L, the concentration in adjacent pumping well TW4-19 decreased slightly from 7,840 to 7,780 µg/L, and the concentration in nearby pumping well TW4-21 increased from 339 to 390 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 7,530 µg/L to 6,070 µg/L. The chloroform concentration in nitrate pumping well TW4-24 decreased from 25.3 µg/L to 22.8 µg/L, remaining outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, bounds the chloroform plume to the north.

Chloroform at relatively 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 substantially from 631 µg/L to 335 µg/L. Chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 3.5 µg/L to approximately 5.2 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 (2.1 µg/L), to the east by TW4-30 (5.2 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 (1.8 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a slight decrease in concentration, from 129 µg/L to 122 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (4.5 µg/L), to the east by TW4-27 (2.1 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (1.8 µg/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 TW4-9 (which is just inside the plume this quarter), and a contraction near TW4-16 (which is again outside the plume). The chloroform concentration at TW4-9 increased from approximately 68 µg/L to 74 µg/L, bringing TW4-9 back inside the plume for the first time since the fourth quarter of 2014. The plume boundary is now located between TW4-9 and TW4-12 (which is non-detect for chloroform and cross-gradient of TW4-9). The increase is attributable to reduced recharge (and reduced dilution) from the northern wildlife ponds.

Nitrate pumping generally caused the boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Since the first quarter of 2014, 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 in the second quarter of 2015 and reduced productivity at TW4-24 (since the third quarter of 2014). 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 46

µg/L) is again outside the plume. 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 in the second quarter of 2015, is expected to have a beneficial impact. Generally reduced 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 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 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 once 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. Continued operation of TW4-1, TW4-2, TW4-11, TW4-21, and TW4-37 is also recommended. Pumping these wells has increased overall capture and improved chloroform mass removal rates.

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, while, since the third quarter of 2014, concentrations at TW4-29 appear to be on an upward trend. The relatively stable chloroform at TW4-33 and recent increases in concentration at TW4-29 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with decreasing water levels at both TW4-29 and TW4-33. Continued evaluation of trends at TW4-29 and TW4-33 will be provided in subsequent quarters.

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.

**10.0 SIGNATURE AND CERTIFICATION**

This document was prepared by Energy Fuels Resources (USA) Inc. on May 19, 2016

Energy Fuels Resources (USA) Inc.

By:

A handwritten signature in blue ink, appearing to read 'S. Bakken', with a horizontal line extending to the right.

Scott A. Bakken  
Senior Director Regulatory Affairs

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



---

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

## Tables

**Table 1: Summary of Well Sampling for the Period**

Well	Sample Date	Date of Lab Report
MW-04	3/9/2016	3/28/2016
TW4-01	3/9/2016	3/28/2016
TW4-02	3/9/2016	3/28/2016
TW4-03	3/15/2016	4/11/2016
TW4-03R	3/14/2016	4/11/2016
TW4-04	3/9/2016	3/28/2016
TW4-05	3/17/2016	4/11/2016
TW4-06	3/22/2016	3/30/2016
TW4-06R	3/21/2016	3/30/2016
TW4-07	3/22/2016	3/30/2016
TW4-08	3/17/2016	4/11/2016
TW4-09	3/17/2016	4/11/2016
TW4-10	3/22/2016	3/30/2016
TW4-11	3/9/2016	3/28/2016
TW4-12	3/15/2016	4/11/2016
TW4-13	3/16/2016	4/11/2016
TW4-14	3/16/2016	4/11/2016
MW-26	3/9/2016	3/28/2016
TW4-16	3/17/2016	4/11/2016
MW-32	3/22/2016	3/30/2016
TW4-18	3/17/2016	4/11/2016
TW4-19	3/9/2016	3/28/2016
TW4-20	3/9/2016	3/28/2016
TW4-21	3/9/2016	3/28/2016
TW4-22	3/9/2016	3/28/2016
TW4-23	3/16/2016	4/11/2016
TW4-24	3/9/2016	3/28/2016
TW4-25	3/9/2016	3/28/2016
TW4-26	3/16/2016	4/11/2016
TW4-27	3/16/2016	4/11/2016
TW4-28	3/15/2016	4/11/2016
TW4-29	3/17/2016	4/11/2016
TW4-30	3/17/2016	4/11/2016
TW4-31	3/16/2016	4/11/2016
TW4-32	3/15/2016	4/11/2016
TW4-33	3/17/2016	4/11/2016
TW4-34	3/16/2016	4/11/2016
TW4-35	3/16/2016	4/11/2016
TW4-36	3/16/2016	4/11/2016
TW4-37	3/9/2016	3/28/2016
TW4-60	3/22/2016	3/30/2016
TW4-65	3/15/2016	4/11/2016
TW4-70	3/22/2016	3/30/2016

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, TW4-65 is a duplicate of TW4-28, and TW4-70 is a duplicate of MW-32.

Highlighted wells are continuously pumped.

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Tab E Kriged Previous Quarter Groundwater Contour Map

Tab F Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

Tab G Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells Over Time

Tab H Laboratory Analytical Reports

Tab I Quality Assurance and Data Validation Tables

I-1 Field Data QA/QC Evaluation

I-2 Holding Time Evaluation

I-3 Receipt Temperature Check

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I-5 Reporting Limit Evaluation

I-6 Trip Blank Evaluation

I-7 QA/QC Evaluation for Sample Duplicates

I-8 QC Control Limits for Analyses and Blanks

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Tab J Kriged Current Quarter Chloroform Isoconcentration Map

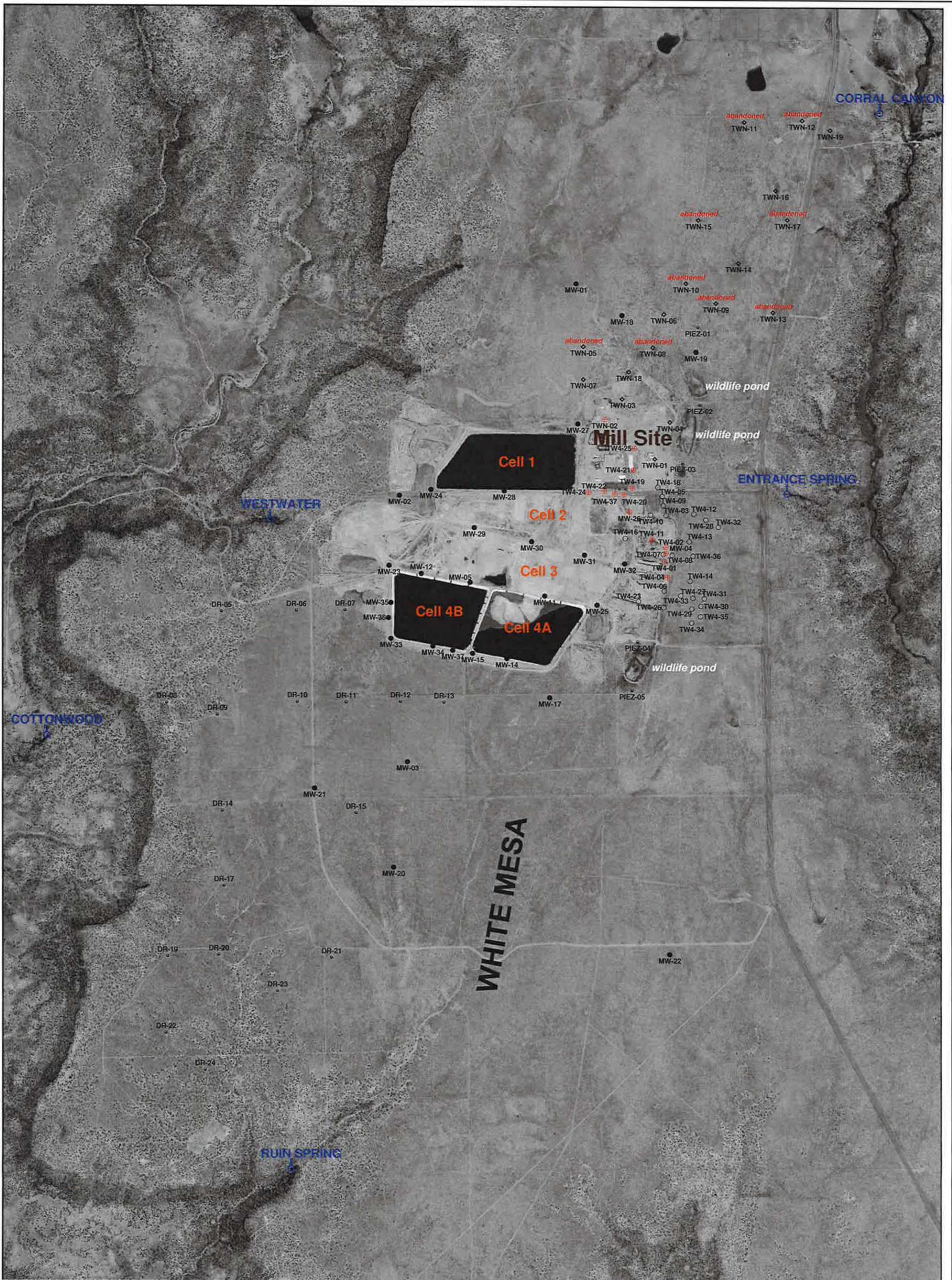
Tab K Analyte Concentration Data and Chloroform Concentration Trend Graphs Over Time

Tab L Contour Map Based Chloroform Plume Mass Calculations and Data Over Time

Tab M CSV Transmittal Letter

Tab A

Site Plan and Perched Well Locations White Mesa Site



**EXPLANATION**

- 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
- RUIN SPRING seep or spring



**HYDRO  
GEO  
CHEM, INC.**

**WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may16/Uwelloc0316.srf	A - 1

**Tab B**

**Order of Sampling and Field Data Worksheets**

# Order of Contamination for 1st Quarter 2016 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	<u>3/15/16 0639</u>	ND			141	TW4-03R-03142016 1329
TW4-12	<u>3/15/16 0652</u>	ND			101.5	
TW4-28	<u>3/15/16 0656</u>	ND			107	
TW4-32	<u>3/15/16 0705</u>	ND			115.1	
TW4-13	<u>3/16/16 0642</u>	ND			102.5	
TW4-36	<u>3/16/16 0649</u>	ND			99	
TW4-31	<u>3/16/16 0657</u>	ND			106	
TW4-34	<u>3/16/16 0705</u>	ND			97.2	
TW4-35	<u>3/16/16 0713</u>	ND			87.5	
TW4-23	<u>3/16/16 0721</u>	ND			114	
- MW-32	<u>3/22/16 1230</u>	ND			132.5	Bladder pump
TW4-25	<u>3/9/16 0956</u>	ND			134.8	Cont. Pumping
TW4-14	<u>3/16/16 0729</u>	1.46			93	
TW4-27	<u>3/16/16 0736</u>	1.6			96	
TW4-26	<u>3/16/16 0748</u>	3.45			86	
TW4-30	<u>3/17/16 0750</u>	3.48			92.5	
TW4-05	<u>3/17/16 0804</u>	11			120	
TW4-24	<u>3/9/16 1009</u>	25.3			112.5	Cont. Pumping
TW4-18	<u>3/17/16 0813</u>	52.9			137.5	
TW4-09	<u>3/17/16 0822</u>	68.4			120	
TW4-16	<u>3/17/16 0829</u>	112			142	
TW4-33	<u>3/17/16 0838</u>	129			87.9	
TW4-21	<u>3/9/16 0947</u>	339			121	cont Pumping
TW4-29	<u>3/17/16 0845</u>	631			93.5	
TW4-08	<u>3/17/16 0854</u>	770			125	
- TW4-06	<u>3/22/16 0851</u>	843			97.5	TW4-06R-03212016 1034
- TW4-07	<u>3/22/16 0858</u>	847			120	
TW4-01	<u>3/9/16 1217</u>	1040			110	Cont. Pumping
TW4-04	<u>3/9/16 1225</u>	1190			112	Cont. Pumping
MW-04	<u>3/9/16 1210</u>	1200			124	Cont. Pumping
- TW4-10	<u>3-22-16 0906</u>	1350			111	
TW4-02	<u>3/9/16 1201</u>	2070			120	Cont Pumping
MW-26	<u>3/9/16 1044</u>	2680			122.5	Cont. Pumping
TW4-11	<u>3/9/16 1153</u>	2730			100	Cont Pumping
TW4-22	<u>3/9/16 1018</u>	7530			113.5	Cont. Pumping
TW4-19	<u>3/9/16 1430</u>	7840			125	Cont. Pumping
TW4-20	<u>3/9/16 1031</u>	17000			106	Cont. Pumping
TW4-37	<u>3/9/16 1025</u>	19500			112	Cont. Pumping
- TW4-60	D.I. Blank	<u>3/22/16 1500</u>				
28 TW4-65	Duplicate	<u>3/15/16 0656</u>				
MW - TW4-70	Duplicate	<u>3/22/16 1230</u>				

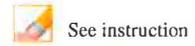
32 Comments:

Name: \_\_\_\_\_

Date: \_\_\_\_\_



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: MW-04-03092016

Date and Time for Purging: 3/9/2016 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 μMHOS/ cm Well Depth(0.01ft): 124.00

Depth to Water Before Purging: 79.80 Casing Volume (V) 4" Well: 0 (.653h)  
 3" Well: 16.22 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 9°

Time	<u>12:10</u>	Gal. Purged	<u>0</u>
Conductance	<u>1858</u>	pH	<u>7.37</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>256</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 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

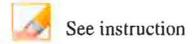
 See instruction

Comment  
 Arrived on site at 1207 Tanner and Garrin present to collect samples.  
 Samples collected at 1210. Water was clear  
 Left site at 1212

**MW-04 03-09-2016** 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   $\mu$ 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="1217"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="2335"/>	pH	<input type="text" value="7.25"/>
Temp. °C	<input type="text" value="15.26"/>		
Redox Potential Eh (mV)	<input type="text" value="268"/>		
Turbidity (NTU)	<input type="text" value="1.2"/>		

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 12:14 Tanner and Garrin present to collect samples  
 Samples collected at 12:17 water was clear  
 Left site at 12:19

**TW4-01 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-02 Sampler Name and initials: Tanner Holliday TH

Field Sample ID TW4-02-03092016

Date and Time for Purging 3/9/2016 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 TW4-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging 79.59 Casing Volume (V) 4" Well: 26.38 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 9°

Time	<u>1201</u>	Gal. Purged	<u>0</u>
Conductance	<u>3408</u>	pH	<u>7.23</u>
Temp. °C	<u>15.14</u>		
Redox Potential Eh (mV)	<u>257</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

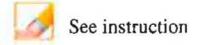
Comment

Arrived on site at 1158 Tanner and Garrin present to collect samples  
 Samples collected at 1201 Water was clear  
 Left site at 1203

**TW4-02 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarterly Quarter Chloroform 2016

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

Field Sample ID TW4-03\_03152016

Date and Time for Purging 3/14/2016 and Sampling (if different) 3/15/2016

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  $\mu$ MHOS/cm Well Depth(0.01ft): 141.00

Depth to Water Before Purging 56.70 Casing Volume (V) 4" Well: 55.04 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 11°

Time	<u>1404</u>	Gal. Purged	<u>110</u>
Conductance	<u>1726</u>	pH	<u>6.34</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>436</u>		
Turbidity (NTU)	<u>10.4</u>		

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

Time	<u>0638</u>	Gal. Purged	<u>0</u>
Conductance	<u>1709</u>	pH	<u>5.97</u>
Temp. °C	<u>14.21</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0641</u>	Gal. Purged	<u>0</u>
Conductance	<u>1714</u>	pH	<u>6.01</u>
Temp. °C	<u>14.18</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

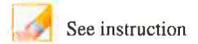
Arrived on site at 1348 Tanner and Garrin present for purge. Purge began at 1353 Purged well for a total of 11 minutes. Purged well dry! water was clear Purge ended at 1404. Left site at 1406

Arrived on site at 0636 Tanner and Garrin present to collect samples. Depth to water was 57.25 samples bailed at 0639 Left site at 0642

**TW4-03 03-14-2016** 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   $\mu$ 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="1328"/>	Gal. Purged	<input type="text" value="130"/>
Conductance	<input type="text" value="0.9"/>	pH	<input type="text" value="7.25"/>
Temp. °C	<input type="text" value="11.96"/>		
Redox Potential Eh (mV)	<input type="text" value="428"/>		
Turbidity (NTU)	<input type="text" value="1.3"/>		

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

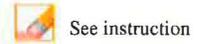
 See instruction

Comment  
 Arrived on site at 1312 Tanner and Garrin present to collect samples.  
 Rinsate began at 1315 Pumped 50 Gallons soap water and 100 Gallons  
 of DI water. samples collected at 1329  
 Left site at 1332

**TW4-03R 03-14-2016** 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:   $\mu$ 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="1225"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="2301"/>	pH	<input type="text" value="7.11"/>
Temp. °C	<input type="text" value="16.02"/>		
Redox Potential Eh (mV)	<input type="text" value="292"/>		
Turbidity (NTU)	<input type="text" value="11.0"/>		

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

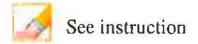
Comment

Arrived on site at 1222 Tanner and Garrin present to collect samples.  
 Samples collected at 1225 Water was mostly clear  
 Left site at 1228

**TW4-04 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-05 Sampler Name and initials: Tanner Holliday/JH

Field Sample ID: TW4-05\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 64.55 Casing Volume (V) 4" Well: 36.20 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1047</u>	Gal. Purged	<u>70</u>
Conductance	<u>1497</u>	pH	<u>6.25</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>429</u>		
Turbidity (NTU)	<u>3.8</u>		

Time	<u>1048</u>	Gal. Purged	<u>80</u>
Conductance	<u>1492</u>	pH	<u>6.27</u>
Temp. °C	<u>15.23</u>		
Redox Potential Eh (mV)	<u>429</u>		
Turbidity (NTU)	<u>3.8</u>		

Time	<u>1040</u> <u>1049</u>	Gal. Purged	<u>90</u>
Conductance	<u>1491</u>	pH	<u>6.27</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>428</u>		
Turbidity (NTU)	<u>3.8</u>		

Time	<u>1050</u>	Gal. Purged	<u>100</u>
Conductance	<u>1482</u>	pH	<u>6.28</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>427</u>		
Turbidity (NTU)	<u>3.8</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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

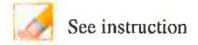
Comment

Arrived on site at 1038 Tanner and Garrin Present for purge. Purge began at 1040  
 Purged well for a total of 10 minutes. Purge ended at 1050  
 Water was clear. Left site at 1052  
 Arrived on site at 0802 Tanner and Garrin present to collect samples. Depth to  
 water was 64.53 Samples bailed at 0804 Left site at 0805

**TW4-05 03-16-2016** 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:   $\mu$ 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="1229"/>	Gal. Purged	<input type="text" value="30.33"/>
			<input type="text" value="30.33"/>
Conductance	<input type="text" value="3303"/>	pH	<input type="text" value="6.48"/>
Temp. °C	<input type="text" value="15.18"/>		
Redox Potential Eh (mV)	<input type="text" value="483"/>		
Turbidity (NTU)	<input type="text" value="150"/>		

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" value="0850"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3252"/>	pH	<input type="text" value="6.20"/>
Temp. °C	<input type="text" value="15.35"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text" value="0852"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3268"/>	pH	<input type="text" value="6.25"/>
Temp. °C	<input type="text" value="15.38"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

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

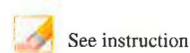
Arrived on site at 1224 Tanner and Garrin present for purge. Purge began at 1226 Purged well for a total of 3 minutes 15 seconds. Purged well dry! Purge ended at 1229. Water was cloudy. Left site at 1232

Arrived on site at 0848 Tanner and Garrin present to collect samples. Depth to water was 72.26 samples bailed at 0851 Left site at 0853

**TW4-06 03-21-2016** 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   $\mu$ 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="1033"/>	Gal. Purged	<input type="text" value="140.130"/>
Conductance	<input type="text" value="8.1"/>	pH	<input type="text" value="7.32"/>
Temp. °C	<input type="text" value="14.58"/>		
Redox Potential Eh (mV)	<input type="text" value="413"/>		
Turbidity (NTU)	<input type="text" value="1.0"/>		

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"/>

Chloride

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

Final Depth

Sample Time

 See instruction

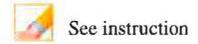
Comment

Arrived on site at 1018 Tanner and Garrin present for Rinsate. Rinsate began at 1020 Pumped 50 Gallons of soap water, and 100 Gallons of DI water. Samples collected at 1034. Left site at 1036

**TW4-06R 03-21-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-07\_03222016

Date and Time for Purging 3/21/2016

and Sampling (if different) 3/22/2016

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Chloroform

Prev. Well Sampled in Sampling Event TW4-06

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 76.27

Casing Volume (V) 4" Well: 28.55 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>1258</u>	Gal. Purged	<u>4</u>
Conductance	<u>1605</u>	pH	<u>6.51</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>8</u>		

Time	<u>1259</u>	Gal. Purged	<u>50</u>
Conductance	<u>1600</u>	pH	<u>6.52</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>9</u>		

Time	<u>1300</u>	Gal. Purged	<u>60</u>
Conductance	<u>1577</u>	pH	<u>6.52</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>352</u>		
Turbidity (NTU)	<u>9</u>		

Time	<u>1301</u>	Gal. Purged	<u>70</u>
Conductance	<u>1570</u>	pH	<u>6.53</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>350</u>		
Turbidity (NTU)	<u>9</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 1252 Tanner and Garrin present for purge. Purge began at 1254 Purged well for a total of 7 minutes. Purge ended at 1301. Water was clear Left site at 1303

Arrived on site at 0856 Tanner and Garrin present to collect samples. Depth to Water was 115.20<sup>77.12</sup> Samples bailed at 0858 Left site at 0900

77.12

**TW4-07 03-21-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-08

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-08\_03172016

Date and Time for Purging: 3/16/2016

and Sampling (if different): 3/17/2016

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: TW4-29

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: 80.02

Casing Volume (V) 4" Well: 29.37 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1516</u>	Gal. Purged	<u>50</u>
Conductance	<u>4814</u>	pH	<u>6.11</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>422</u>		
Turbidity (NTU)	<u>3</u>		

Time	<u>1517</u>	Gal. Purged	<u>60</u>
Conductance	<u>4814</u>	pH	<u>6.12</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>421</u>		
Turbidity (NTU)	<u>3</u>		

Time	<u>1518</u>	Gal. Purged	<u>70</u>
Conductance	<u>4812</u>	pH	<u>6.12</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>422</u>		
Turbidity (NTU)	<u>3</u>		

Time	<u>1519</u>	Gal. Purged	<u>80</u>
Conductance	<u>4811</u>	pH	<u>6.12</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>420</u>		
Turbidity (NTU)	<u>3</u>		

06-06-12 Rev. 7.2 - Errata / Template (2011) / Printed 11/20/2015 9:20 AM from 0606060602

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

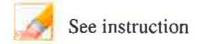
See instruction

**Comment**  
 Arrived on site at 1509 Tanner and Garrin present for purge. Purge began at 1511  
 Purged well for a total of 8 minutes. Purge ended at 1519  
 water was clear. Left site at 1522  
 Arrived on site at 0852 Tanner and Garrin present to collect samples. Depth to  
 water was 80.18 samples bailed at 0854 Left site at 0856

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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-09\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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 μMHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 62.47 Casing Volume (V) 4" Well: 37.56 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 10°

Time	<u>1238</u>	Gal. Purged	<u>60</u>
Conductance	<u>2447</u>	pH	<u>6.12</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>420</u>		
Turbidity (NTU)	<u>19</u>		

Time	<u>1239</u>	Gal. Purged	<u>70</u>
Conductance	<u>2445</u>	pH	<u>6.12</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>426</u>		
Turbidity (NTU)	<u>19</u>		

Time	<u>1240</u>	Gal. Purged	<u>80</u>
Conductance	<u>2446</u>	pH	<u>6.13</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>426</u>		
Turbidity (NTU)	<u>19</u>		

Time	<u>1241</u>	Gal. Purged	<u>90</u>
Conductance	<u>2446</u>	pH	<u>6.12</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>419</u>		
Turbidity (NTU)	<u>19</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

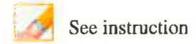
Arrived on site at 1230 Tanner and Garrin present for purge. Purge began at 1232  
 Purged well for a total of 9 minutes. Purge ended at 1241  
 Water was clear. Left site at 1244

Arrived on site at 0820 Tanner and Garrin present to collect samples. Depth to  
 water was 62.41 samples bailed at 0822 Left site at 0824

**TW4-09 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-10\_03222016

Date and Time for Purging 3/21/2016

and Sampling (if different) 3/22/2016

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 111.00

Depth to Water Before Purging 61.98

Casing Volume (V) 4" Well: 32.01 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 16°

Time	<u>1344</u>	Gal. Purged	<u>70</u>
Conductance	<u>2986</u>	pH	<u>5.69</u>
Temp. °C	<u>15.19</u>		
Redox Potential Eh (mV)	<u>427</u>		
Turbidity (NTU)	<u>20</u>		

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

Time	<u>0905</u>	Gal. Purged	<u>0</u>
Conductance	<u>2866</u>	pH	<u>6.31</u>
Temp. °C	<u>14.19</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>09007</u>	Gal. Purged	<u>0</u>
Conductance	<u>2891</u>	pH	<u>6.29</u>
Temp. °C	<u>14.32</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 1334 Tanner and Garrin present for purge. Purge began at 1337 Purged well for a total of 7 minutes. Purged well dry! Purge ended at 1344. Water was mostly clear. Left site at 1347

Arrived on site at 0903 Tanner and Garrin present to collect samples. Depth to water was 61.70 Samples bailed at 0906 Left site at 0909

**TW4-10 03-21-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-11\_03092016

Date and Time for Purging: 3/9/2016 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: 93.05 Casing Volume (V) 4" Well: 4.53 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 9°

Time	<u>1153</u>	Gal. Purged	<u>0</u>
Conductance	<u>3596</u>	pH	<u>7.25</u>
Temp. °C	<u>16.83</u>		
Redox Potential Eh (mV)	<u>231</u>		
Turbidity (NTU)	<u>30</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

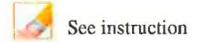
Comment

Arrived on site at 1150 Tanner and Garrin present to collect samples  
 Samples collected at 1153 Water was mostly clear  
 Left site at 1155

**TW4-11 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-12\_03152016

Date and Time for Purging 3/14/2016

and Sampling (if different) 3/15/2016

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 101.50

Depth to Water Before Purging 45.70

Casing Volume (V) 4" Well: 36.43 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1438</u>	Gal. Purged	<u>50</u>
Conductance	<u>1454</u>	pH	<u>6.38</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>418</u>		
Turbidity (NTU)	<u>13.7</u>		

Time	<u>1439</u>	Gal. Purged	<u>60</u>
Conductance	<u>1483</u>	pH	<u>6.44</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>417</u>		
Turbidity (NTU)	<u>13.9</u>		

Time	<u>1440</u>	Gal. Purged	<u>70</u>
Conductance	<u>1481</u>	pH	<u>6.47</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>417</u>		
Turbidity (NTU)	<u>13.9</u>		

Time	<u>1441</u>	Gal. Purged	<u>80</u>
Conductance	<u>1479</u>	pH	<u>6.51</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>14.0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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

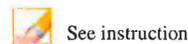
Arrived on site at 1430 Tanner and Garrin present for purge. Purge began at 1433  
 Purged well for a total of 8 minutes. Purge ended at 1441. Water was clear  
 Left site at 1443

Arrived on site at 0649 Tanner and Garrin present to collect samples. Depth to water was 45.90  
 samples bailed at 0652 Left site at 0654

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



Description of Sampling Event: 1st Quarter Ground Chloroform 2016

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-13\_03162016

TW4-13\_03162016

Date and Time for Purging: 3/15/2016

and Sampling (if different): 3/16/

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: 1006  $\mu$ MHOS/ cm

Well Depth(0.01ft): 102.50

Depth to Water Before Purging: 52.05

Casing Volume (V) 4" Well: 32.94 (.653h)  
 3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	<u>0945</u>	Gal. Purged	<u>10 60</u>
Conductance	<u>2107</u>	pH	<u>6.57</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>422</u>		
Turbidity (NTU)	<u>7.2</u>		

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

Time	<u>0641</u>	Gal. Purged	<u>0</u>
Conductance	<u>2024</u>	pH	<u>7.01</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0643</u>	Gal. Purged	<u>0</u>
Conductance	<u>2029</u>	pH	<u>7.00</u>
Temp. °C	<u>14.70</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

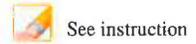
Arrived on site at 0936 Tanner and Garrin present for purge. Purge began at 0939 Purged well for a total of 6 minutes. Purged well dry Purge ended at 0945. Water was clear. Left site at 0948

Arrived on site at 0639 Tanner and Garrin present to collect samples. Depth to water was 52.15 samples bailed at 0647 Left site at 0645

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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-14\_03162016

Date and Time for Purging 3/15/2016

and Sampling (if different) 3/16/2016

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 93.00

Depth to Water Before Purging 80.05

Casing Volume (V) 4" Well: 8.45 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 10°

Time	<u>1347</u>	Gal. Purged	<u>15</u>
Conductance	<u>5149</u>	pH	<u>6.12</u>
Temp. °C	<u>15.14</u>		
Redox Potential Eh (mV)	<u>339</u>		
Turbidity (NTU)	<u>125</u>		

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

Time	<u>0728</u>	Gal. Purged	<u>0</u>
Conductance	<u>5150</u>	pH	<u>6.22</u>
Temp. °C	<u>12.45</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0730</u>	Gal. Purged	<u>0</u>
Conductance	<u>5153</u>	pH	<u>6.21</u>
Temp. °C	<u>12.50</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"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

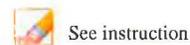
Arrived on site at 1342. Tanner and Garrin and Garrin present for purge. Purge began at 1346. Purged well for a total of 1 minute 30 seconds. Purged well dry. Purge ended at 1347. water was a little cloudy. Left site at 1350

Arrived on site at 0726 Tanner and Garrin Present to collect samples. Depth to water was 80.16 samples bailed at 0729 Left site at 0731

**TW4-14 03-15-2016** 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   $\mu$ 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="1044"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3425"/>	pH	<input type="text" value="6.99"/>
Temp. °C	<input type="text" value="15.21"/>		
Redox Potential Eh (mV)	<input type="text" value="276"/>		
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

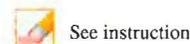
Comment

Arrived on site at 1041 Tanner and Garrin present to collect samples  
 Samples collected at 1044 Water was clear  
 Left site at 1046

**MW-26 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-16\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging: 63.89 Casing Volume (V) 4" Well: 51.00 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>1316</u>	Gal. Purged	<u>90</u>
Conductance	<u>3561</u>	pH	<u>6.02</u>
Temp. °C	<u>15.69</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>122</u>		

Time	<u>1317</u>	Gal. Purged	<u>100</u>
Conductance	<u>3562</u>	pH	<u>6.02</u>
Temp. °C	<u>15.72</u>		
Redox Potential Eh (mV)	<u>348</u>		
Turbidity (NTU)	<u>121</u>		

Time	<u>1318</u>	Gal. Purged	<u>110</u>
Conductance	<u>3561</u>	pH	<u>6.02</u>
Temp. °C	<u>15.74</u>		
Redox Potential Eh (mV)	<u>347</u>		
Turbidity (NTU)	<u>118</u>		

Time	<u>1319</u>	Gal. Purged	<u>120</u>
Conductance	<u>3561</u>	pH	<u>6.03</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)	<u>346</u>		
Turbidity (NTU)	<u>115</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

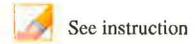
Arrived on site at 1303 Tanner and Garrin present for purge. Purge began at 1307 Purged well for a total of 12 minutes. Purge ended at 1319 water was a little cloudy. Left site at 1321

Arrived on site at 0827 Tanner and Garrin present to collect samples. Depth to water was 63.87. Samples bailed at 0829 Left site at 0831

**TW4-16 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID MW-32\_03222016

Date and Time for Purging 3/22/2016 and Sampling (if different) N/A

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

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 132.50

Depth to Water Before Purging 76.85 Casing Volume (V) 4" Well: 36.33 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy/windy Ext'l Amb. Temp. °C (prior sampling event) 6°

Time	<u>1227</u>	Gal. Purged	<u>77.46</u>
Conductance	<u>3806</u>	pH	<u>6.20</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>461</u>		
Turbidity (NTU)	<u>130</u>		

Time	<u>1228</u>	Gal. Purged	<u>77.68</u>
Conductance	<u>3818</u>	pH	<u>6.18</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>459</u>		
Turbidity (NTU)	<u>135</u>		

Time	<u>1229</u>	Gal. Purged	<u>77.90</u>
Conductance	<u>3827</u>	pH	<u>6.17</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>449</u>		
Turbidity (NTU)	<u>139</u>		

Time	<u>1230</u>	Gal. Purged	<u>78.12</u>
Conductance	<u>3819</u>	pH	<u>6.15</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>440</u>		
Turbidity (NTU)	<u>141</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

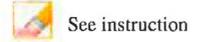
Comment

Arrived on site at 0626 Tanner and Garrin present for purge and sampling event.  
 Purge began at 0630. Purged well for a total of 360 minutes.  
 Purge ended and samples collected at 1230. Water was a little cloudy  
 Left site at 1245.

**MW-32 03-22-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-18\_03172016

Date and Time for Purging 3/16/2016

and Sampling (if different) 3/17/2016

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 137.50

Depth to Water Before Purging 65.48

Casing Volume (V) 4" Well: 47.02 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 9°

Time	<u>1205</u>	Gal. Purged	<u>90</u>
Conductance	<u>1927</u>	pH	<u>5.94</u>
Temp. °C	<u>16.74</u>		
Redox Potential Eh (mV)	<u>418</u>		
Turbidity (NTU)	<u>25</u>		

Time	<u>1206</u>	Gal. Purged	<u>100</u>
Conductance	<u>1916</u>	pH	<u>5.95</u>
Temp. °C	<u>16.77</u>		
Redox Potential Eh (mV)	<u>417</u>		
Turbidity (NTU)	<u>25</u>		

Time	<u>1207</u>	Gal. Purged	<u>110</u>
Conductance	<u>1877</u>	pH	<u>5.95</u>
Temp. °C	<u>16.77</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>24</u>		

Time	<u>1208</u>	Gal. Purged	<u>120</u>
Conductance	<u>1875</u>	pH	<u>5.95</u>
Temp. °C	<u>16.77</u>		
Redox Potential Eh (mV)	<u>415</u>		
Turbidity (NTU)	<u>24</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

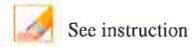
Arrived on site at 1153 Tanner and Garrin present for purge. Purge began at 1156  
 Purged well for a total of 12 minutes. Purge ended at 1208  
 water was clear Left site at 1210

Arrived on site at 0811. Tanner and Garrin present to collect samples. Depth to  
 water was 65.45 samples bailed at 0813 Left site at 0815

**TW4-18 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-19\_03092016

Date and Time for Purging 3/9/2016

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 TW4-04

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging 64.11

Casing Volume (V) 4" Well: 39.76 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>1430</u>	Gal. Purged	<u>0</u>
Conductance	<u>3768</u>	pH	<u>7.22</u>
Temp. °C	<u>16.67</u>		
Redox Potential Eh (mV)	<u>351</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"/>

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

Final Depth

Sample Time

 See instruction

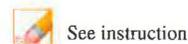
Comment

Arrived on site at 1427 Tanner and Garrin present to collect samples.  
 Samples collected at 1430 water was clear  
 Left site at 1432

**TW4-19 03-09-2016** 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   $\mu$ 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="1031"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3927"/>	pH	<input type="text" value="6.94"/>
Temp. °C	<input type="text" value="15.49"/>		
Redox Potential Eh (mV)	<input type="text" value="306"/>		
Turbidity (NTU)	<input type="text" value="4.4"/>		

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 1028 Tanner and Garrin present to collect samples.  
 Samples collected at 1031 Water was mostly clear  
 Left site at 1033

**TW4-20 03-09-2016** 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:   $\mu$ 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="0946"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="4528"/>	pH	<input type="text" value="6.44"/>
Temp. °C	<input type="text" value="15.81"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
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"/>

Chloride

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

Final Depth

Sample Time

 See instruction

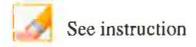
Comment

Arrived on site at 0944 Tanner and Garrin present to collect samples  
 Samples collected at 0947 water was clear  
 Left site at 0949

**TW4-21 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22\_03092016

Date and Time for Purging: 3/9/2016

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: 1006  $\mu$ MHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 58.75

Casing Volume (V) 4" Well: 35.75 (.653h)  
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	<u>1018</u>	Gal. Purged	<u>0</u>
Conductance	<u>5570</u>	pH	<u>7.05</u>
Temp. °C	<u>15.32</u>		
Redox Potential Eh (mV)	<u>317</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"/>

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

Final Depth

Sample Time

 See instruction

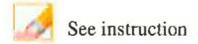
Comment

Arrived on site at 1015 Tanner and Garrin present to collect samples  
 Samples collected at 1018 Water was clear  
 Left site at 1021

**TW4-22 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-23\_03162016

Date and Time for Purging: 3/15/2016 and Sampling (if different): 3/16/2016

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  $\mu$ MHOS/cm Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 69.35 Casing Volume (V) 4" Well: 29.15 (.653h)  
3" Well: 0 (.367h)

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	<u>1313</u>	Gal. Purged	<u>50</u>
Conductance	<u>3652</u>	pH	<u>6.14</u>
Temp. °C	<u>14.35</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>125</u>		

Time	<u>1314</u>	Gal. Purged	<u>60</u>
Conductance	<u>3647</u>	pH	<u>6.14</u>
Temp. °C	<u>14.35</u>		
Redox Potential Eh (mV)	<u>314</u>		
Turbidity (NTU)	<u>118</u>		

Time	<u>1315</u>	Gal. Purged	<u>70</u>
Conductance	<u>3650</u>	pH	<u>6.14</u>
Temp. °C	<u>14.34</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>115</u>		

Time	<u>1316</u>	Gal. Purged	<u>80</u>
Conductance	<u>3641</u>	pH	<u>6.14</u>
Temp. °C	<u>14.34</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>113</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

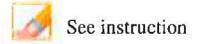
Arrived on site at 1305 Tanner and Garrin present for purge. Purge began at 1308 Purged well for a total of 8 minutes. Purge ended at 1316 water started with an orange color but slowly cleared. Left site at 1318

Arrived on site at 0719 Tanner and Garrin present to collect samples. Depth to water was 69.40 samples bailed at 0721 Left site at 0723

**TW4-23 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2016

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

Field Sample ID: TW4-24\_03092016

Date and Time for Purging: 3/9/2016 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: 63.70 Casing Volume (V) 4" Well: 31.86 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1008</u>	Gal. Purged	<u>0</u>
Conductance	<u>7462</u>	pH	<u>6.92</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>334</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 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

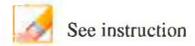
Comment

Arrived on site at 1006 Tanner and Garrin present to collect samples.  
 Samples collected at 1009 Water was clear  
 Left site at 1011

**TW4-24 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-25\_03092016

Date and Time for Purging: 3/9/2016 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  $\mu$ MHOS/ cm Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 66.20 Casing Volume (V) 4" Well: 44.79 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>0956</u>	Gal. Purged	<u>0</u>
Conductance	<u>2739</u>	pH	<u>7.14</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>314</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 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

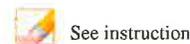
 See instruction

Comment  
 Arrived on site at 0953 Tanner and Garrin present to collect samples  
 Samples collected at 0956 Water was clear  
 Left site at 0958

**TW4-25 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2016

Location (well name): TW4-26 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-26\_03162016

Date and Time for Purging: 3/15/2016 and Sampling (if different): 3/16/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 86.00

Depth to Water Before Purging: 66.74 Casing Volume (V) 4" Well: 12.57 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 11°

Time	<u>1536</u>	Gal. Purged	<u>20</u>
Conductance	<u>6466</u>	pH	<u>3.40</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>467</u>		
Turbidity (NTU)	<u>21</u>		

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

Time	<u>0747</u>	Gal. Purged	<u>0</u>
Conductance	<u>6441</u>	pH	<u>4.24</u>
Temp. °C	<u>12.80</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0749</u>	Gal. Purged	<u>0</u>
Conductance	<u>6459</u>	pH	<u>4.22</u>
Temp. °C	<u>12.85</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  AWAL

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<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

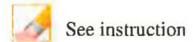
Arrived on site at 1532 Tanner and Garrin present for purge. Purge began at 1534 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1536 Water was clear. Left site at 1539

Arrived on site at 0745 Tanner and Garrin present to collect samples. Depth to water was 66.98 samples bailed at 0748 Left site at 0751

**TW4-26 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-27.03162016

Date and Time for Purging: 3/15/2016 and Sampling (if different): 3/16/2016

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

Depth to Water Before Purging: 79.72 Casing Volume (V) 4" Well: 10.63 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 11°

Time	<u>1418</u>	Gal. Purged	<u>15</u>
Conductance	<u>5228</u>	pH	<u>5.98</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>18</u>		

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

Time	<u>0735</u>	Gal. Purged	<u>0</u>
Conductance	<u>5188</u>	pH	<u>6.29</u>
Temp. °C	<u>12.27</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0737</u>	Gal. Purged	<u>0</u>
Conductance	<u>5226</u>	pH	<u>6.30</u>
Temp. °C	<u>12.37</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

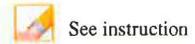
Arrived on site at 1413 Tanner and Garrin present for purge. Purge began at 1417 Purged well for a total of 1 minute 30 seconds. Purged well dry! Purge ended at 1418 Water was clear. Left site at 1421

Arrived on site at 0733 Tanner and Garrin present to collect samples. Depth to water was 80.20 samples bailed at 0736 Left site at 0738

**TW4-27 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2016

Location (well name): TW4-28

Sampler Name and initials: Tanner Holliday/JH

Field Sample ID TW4-28-03152016

Date and Time for Purging 3/14/2016

and Sampling (if different) 3/15/2016

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 107.00

Depth to Water Before Purging 39.75

Casing Volume (V) 4" Well: 43.91 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy/windy

Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1318</u>	Gal. Purged	<u>70</u>
Conductance	<u>1359</u>	pH	<u>6.58</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>386</u>		
Turbidity (NTU)	<u>45</u>		

Time	<u>1319</u>	Gal. Purged	<u>80</u>
Conductance	<u>1349</u>	pH	<u>6.60</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>383</u>		
Turbidity (NTU)	<u>45</u>		

Time	<u>1320</u>	Gal. Purged	<u>90</u>
Conductance	<u>1351</u>	pH	<u>6.61</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>381</u>		
Turbidity (NTU)	<u>44</u>		

Time	<u>1321</u>	Gal. Purged	<u>100</u>
Conductance	<u>1354</u>	pH	<u>6.63</u>
Temp. °C	<u>14.92</u>		
Redox Potential Eh (mV)	<u>380</u>		
Turbidity (NTU)	<u>43</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

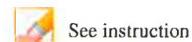
Arrived on site at 1509 Tanner and Garrin present for purge. Purge began at 1311 Purged well for a total of 10 minutes. Purge ended at 1321. Water was a little cloudy. Left site at 1324

Arrived on site at 0654 Tanner and Garrin present to collect samples. Depth to water was 39.96 samples bailed at 0658 0656 Left site at 0658

**TW4-28 03-14-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-29 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-29\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 93.50

Depth to Water Before Purging: 73.67 Casing Volume (V) 4" Well: 12.94 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1444</u>	Gal. Purged	<u>20</u>
Conductance	<u>4221</u>	pH	<u>5.95</u>
Temp. °C	<u>15.32</u>		
Redox Potential Eh (mV)	<u>428</u>		
Turbidity (NTU)	<u>17</u>		

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

Time	<u>0844</u>	Gal. Purged	<u>0</u>
Conductance	<u>4235</u>	pH	<u>6.22</u>
Temp. °C	<u>13.75</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0846</u>	Gal. Purged	<u>0</u>
Conductance	<u>4243</u>	pH	<u>6.25</u>
Temp. °C	<u>13.80</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"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

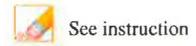
Arrived on site at 1439 Tanner and Garrin present for purge. Purge began at 1442 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1444 Water was clear. Left site at 1447

Arrived on site at 0842 Tanner and Garrin present to collect samples. Depth to water was 73.64 samples collected at 0845 Left site at 0847

**TW4-29 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2016

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

Field Sample ID: TW4-30\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 92.50

Depth to Water Before Purging: 75.85 Casing Volume (V) 4" Well: 10.87 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1011</u>	Gal. Purged	<u>22.50</u>
Conductance	<u>4338</u>	pH	<u>4.59</u>
Temp. °C	<u>14.30</u>		
Redox Potential Eh (mV)	<u>512</u>		
Turbidity (NTU)	<u>33</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>4342</u>	pH	<u>4.65</u>
Temp. °C	<u>13.94</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0751</u>	Gal. Purged	<u>0</u>
Conductance	<u>4345</u>	pH	<u>4.64</u>
Temp. °C	<u>13.98</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

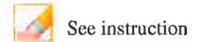
Arrived on site at 1005 Tanner and Garrin present for purge. Purge began at 1009 Purged well for a total of 2 minutes 15 seconds. Purged well dry! Purge ended at 1011. water was clear. Left site at 1014.

Arrived on site at 0747 Tanner and Garrin present to collect samples. Depth to water was 75.76 Samples bailed at 0750 Left site at 0752

**TW4-30 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-31\_03162016

Date and Time for Purging: 3/15/2016 and Sampling (if different): 3/16/2016

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  $\mu$ MHOS/cm Well Depth(0.01ft): 106.00

Depth to Water Before Purging: 79.70 Casing Volume (V) 4" Well: 17.17 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1052</u>	Gal. Purged	<u>30</u>
Conductance	<u>4717</u>	pH	<u>6.47</u>
Temp. °C	<u>14.73</u>		
Redox Potential Eh (mV)	<u>333</u>		
Turbidity (NTU)	<u>180</u>		

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

Time	<u>0656</u>	Gal. Purged	<u>0</u>
Conductance	<u>4679</u>	pH	<u>6.71</u>
Temp. °C	<u>13.30</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0658</u>	Gal. Purged	<u>0</u>
Conductance	<u>4692</u>	pH	<u>6.69</u>
Temp. °C	<u>13.35</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

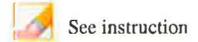
Arrived on site at 1047 Tanner and Garrin present for purge. Purge began at 1049  
Purged well for a total of 3 minutes. Purged well dry! Purge ended at 1052  
Water was a little cloudy. Left site at 1054.

Arrived on site at 0654 Tanner and Garrin present to collect samples. Depth to water was 79.74, samples bailed at 0657 Left site at 0659

**TW4-31 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

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

Field Sample ID: TW4-32\_03152016

Date and Time for Purging: 3/14/2016 and Sampling (if different): 3/15/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 115.10

Depth to Water Before Purging: 51.00 Casing Volume (V) 4" Well: 41.85 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy/windy Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1600</u>	Gal. Purged	<u>70</u>
Conductance	<u>7212</u>	pH	<u>3.05</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>520</u>		
Turbidity (NTU)	<u>13</u>		

Time	<u>1601</u>	Gal. Purged	<u>80</u>
Conductance	<u>7179</u>	pH	<u>3.06</u>
Temp. °C	<u>14.83</u>		
Redox Potential Eh (mV)	<u>518</u>		
Turbidity (NTU)	<u>12</u>		

Time	<u>1602</u>	Gal. Purged	<u>90</u>
Conductance	<u>7185</u>	pH	<u>3.06</u>
Temp. °C	<u>14.82</u>		
Redox Potential Eh (mV)	<u>517</u>		
Turbidity (NTU)	<u>12</u>		

Time	<u>1603</u>	Gal. Purged	<u>100</u>
Conductance	<u>7206</u>	pH	<u>3.06</u>
Temp. °C	<u>14.82</u>		
Redox Potential Eh (mV)	<u>517</u>		
Turbidity (NTU)	<u>12</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

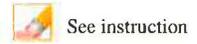
 See instruction

Comment  
 Arrived on site at 1549 Tanner and Garrin present for purge. Purge began at ~~1353~~ 1553  
 Purged well for a total of 10 minutes. Purge ended at 1603.  
 Water was clear. Left site at 1606  
 Arrived on site at 0702 Tanner and Garrin present to collect samples. Depth to water was 51.26 samples bailed at 0705 Left site at 0707

**TW4-32 03-14-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-33 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-33\_03172016

Date and Time for Purging: 3/16/2016 and Sampling (if different): 3/17/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 87.90

Depth to Water Before Purging: 72.50 Casing Volume (V) 4" Well: 10.05 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>1345</u>	Gal. Purged	<u>13.33</u>
Conductance	<u>4439</u>	pH	<u>5.71</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>409</u>		
Turbidity (NTU)	<u>15</u>		

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

Time	<u>0837</u>	Gal. Purged	<u>0</u>
Conductance	<u>4392</u>	pH	<u>5.71</u>
Temp. °C	<u>13.63</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0839</u>	Gal. Purged	<u>0</u>
Conductance	<u>4400</u>	pH	<u>5.73</u>
Temp. °C	<u>13.66</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

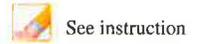
Arrived on site at 1341 Tanner and Garrin present for purge. Purge began at 1344 Purged well for a total of 1 minute 20 seconds. Purged well dry! Purge ended at 1345 Water was clear. Left site at 1347

Arrived on site at 0835 Tanner and Garrin present to collect samples. Depth to water was 72.46 samples bailed at 0838 Left site at 0840

**TW4-33 03-16-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-34 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-34\_03162016

Date and Time for Purging 3/15/2016 and Sampling (if different) 3/16/2016

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 71.85 Casing Volume (V) 4" Well: 16.55 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1211</u>	Gal. Purged	<u>35</u>
Conductance	<u>3955</u>	pH	<u>6.35</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>41</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>3909</u>	pH	<u>6.77</u>
Temp. °C	<u>13.08</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0706</u>	Gal. Purged	<u>0</u>
Conductance	<u>3920</u>	pH	<u>6.73</u>
Temp. °C	<u>13.11</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

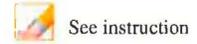
Arrived on site at 1205 Tanner and Garrin present for purge. Purge began at 1208. Purged well for a total of 3 minutes 30 seconds. Purged well dry! Purge ended at 1211. Water was mostly clear Left site at 1214

Arrived on site at 0702 Tanner and Garrin Present to collect samples. Depth to Water was 71.85 Samples bailed at 0705 Left site at 0707

**TW4-34 03-15-2016** 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:   $\mu$ 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="1241"/>	Gal. Purged	<input type="text" value="13.33"/>
Conductance	<input type="text" value="4420"/>	pH	<input type="text" value="5.93"/>
Temp. °C	<input type="text" value="14.66"/>		
Redox Potential Eh (mV)	<input type="text" value="364"/>		
Turbidity (NTU)	<input type="text" value="24"/>		

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" value="0712"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="4363"/>	pH	<input type="text" value="6.54"/>
Temp. °C	<input type="text" value="13.04"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text" value="0714"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="4390"/>	pH	<input type="text" value="6.53"/>
Temp. °C	<input type="text" value="13.10"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

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

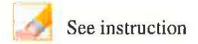
Arrived on site at 1237 Tanner and Garrin present for purge. Purge began at 1240 Purged well for a total of 1 minute 20 seconds. Purged well dry. Purge ended at 1241 Water was mostly clear. Left site at 1244.

Arrived on site at 0710 Tanner and Garrin present to collect samples. Depth to water was 74.16 samples bailed at 0713 Left site at 0715

**TW4-35 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-36 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-36\_03162016

Date and Time for Purging: 3/15/2016 and Sampling (if different): 3/16/2016

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 μMHOS/ cm Well Depth(0.01ft): 99.00

Depth to Water Before Purging: 56.50 Casing Volume (V) 4" Well: 27.75 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1019</u>	Gal. Purged	<u>17.50</u>
Conductance	<u>2569</u>	pH	<u>6.31</u>
Temp. °C	<u>14.82</u>		
Redox Potential Eh (mV)	<u>253</u>		
Turbidity (NTU)	<u>113</u>		

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

Time	<u>0648</u>	Gal. Purged	<u>0</u>
Conductance	<u>2354</u>	pH	<u>6.80</u>
Temp. °C	<u>13.68</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0650</u>	Gal. Purged	<u>0</u>
Conductance	<u>2379</u>	pH	<u>6.76</u>
Temp. °C	<u>13.73</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

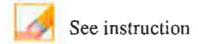
Arrived on site at 1012 Tanner and Garrin present for purge. Purge began at 1015 Purged well for a total of 4 minutes 45 seconds. Purged well dry! Purge ended at 1019. Water was a little cloudy. Left site at 1021

Arrived on site at 0646 Tanner and Garrin present to collect samples. Depth to water was 57.24 samples bailed at 0649 Left site at 0651

**TW4-36 03-15-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-37 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-37\_03092016

Date and Time for Purging: 3/9/2016 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  $\mu$ MHOS/ cm Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 62.30 Casing Volume (V) 4" Well: 32.45 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 8<sup>o</sup>

Time	<u>1025</u>	Gal. Purged	<u>0</u>
Conductance	<u>4417</u>	pH	<u>7.15</u>
Temp. °C	<u>15.58</u>		
Redox Potential Eh (mV)	<u>315</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"/>

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

Final Depth

Sample Time

 See instruction

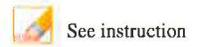
Comment

Arrived on site at 1022 Tanner and Garrin present to collect samples  
 Samples collected at 1025 Water was clear  
 Left site at 1028

**TW4-37 03-09-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/JH

Field Sample ID TW4-60\_03222016

Date and Time for Purging 3/22/2016

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 MW-32

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Weather Cond. Partly Cloudy/Windy

Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>1459</u>	Gal. Purged	<u>0</u>
Conductance	<u>0.8</u>	pH	<u>7.90</u>
Temp. °C	<u>18.80</u>		
Redox Potential Eh (mV)	<u>310</u>		
Turbidity (NTU)	<u>1.1</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"/>

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

Final Depth

Sample Time

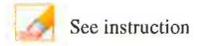
 See instruction

Comment

**TW4-60 03-22-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-65 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-65\_03152016

Date and Time for Purging: 3/14/2016 and Sampling (if different): 3/15/2016

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 107.00

Depth to Water Before Purging: 39.75 Casing Volume (V) 4" Well: 43.91 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy/Windy Ext'l Amb. Temp. °C (prior sampling event) 13°

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

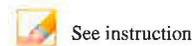
Comment

Duplicate of TW4-28

**TW4-65 03-14-2016** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2016

Location (well name): TW4-70

Sampler Name and initials: Tanner Holiday/TH

Field Sample ID TW4-70\_03222016

Date and Time for Purging 3/22/2016

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 132.50

Depth to Water Before Purging 76.85

Casing Volume (V) 4" Well: 36.33 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy/Windy

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

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

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

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

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

Duplicate of MW-32

**TW4-70 03-22-2016** Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

## Weekly Inspection Form

Date 1-5-2016

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1427	MW-4	78.45	Flow 4.4 Meter 887058.79	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1417	MW-26	64.83	Flow 8.5 Meter 56971.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<del>1423</del>	TW4-19	64.38	Flow 18.0 Meter 273924.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1413	TW4-20	64.76	Flow 7.0 Meter 114271.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1435	TW4-4	72.89	Flow 11.0 Meter 258277.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1400	TWN-2	28.94	Flow 18.5 Meter 566230.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1407	TW4-22	58.97	Flow 18.0 Meter 285711.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1404	TW4-24	64.11	Flow 16.5 Meter 2037552.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1356	TW4-25	64.43	Flow 15.0 Meter 1415112.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1431	TW4-1	80.45	Flow 15.0 Meter 94656.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1424	TW4-2	80.02	Flow 17.0 Meter 91551.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1421	TW4-11	91.32	Flow 16.5 Meter 23166.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1352	TW4-21	68.06	Flow 16.5 Meter 303298.78	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1410	TW4-37	62.73	Flow 17.0 Meter 269190.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number):

TW4-24 Meter needs Replaced

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

TW4-24 Meter was replaced

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 1/11/16

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1415	MW-4	80.32	Flow 4.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 893910.04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1025	MW-26	65.68	Flow 8.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 58235.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1145	TW4-19	63.48	Flow 18.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 281458.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1019	TW4-20	76.80	Flow 5.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 115250.79	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1423	TW4-4	76.48	Flow 11.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 262035.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0947	TWN-2	32.85	Flow 18.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 589394.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1012	TW4-22	58.96	Flow 17.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 287064.30	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0958	TW4-24	64.89	Flow 16.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 8861.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0943	TW4-25	67.55	Flow 15.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter <del>1422622.90</del>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1418	TW4-1	92.00	Flow 15.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 96012.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1412	TW4-2	81.15	Flow 18.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 93149.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1409	TW4-11	91.69	Flow 17.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 23424.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0939	TW4-21	68.03	Flow 16.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 311735.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1015	TW4-37	62.18	Flow 16.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 276236.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number):

MW-26.

Heat lamps were out on TW4-19.

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

Replaced bulbs in lamps. (TW4-19, MW-26)

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 1/18/16

Name Garnia Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1414	MW-4	81.23	Flow 4.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 900201.74	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1422	MW-26	63.45	Flow 8.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 59732.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1340	TW4-19	64.28	Flow 18.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 290345.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1424	TW4-20	63.80	Flow 6.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 116285.38	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1408	TW4-4	76.21	Flow 11.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 266500.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1440	TWN-2	32.40	Flow 18.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 572058.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1429	TW4-22	61.35	Flow 17.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 289296.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1431	TW4-24	64.06	Flow 16.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 19025.58	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1446	TW4-25	63.23	Flow 15.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1431788.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1417	TW4-1	92.38	Flow 15.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 47552.30	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1411	TW4-2	80.81	Flow 17.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 94752.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1420	TW4-11	91.40	Flow 16.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 23710.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1442	TW4-21	68.41	Flow 16.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 321734.13	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1426	TW4-37	64.29	Flow 17.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 285298.90	<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.

## Weekly Inspection Form

Date 1/25/16

Name Gavin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1248	MW-4	80.75	Flow 4.5 Meter 907422.60	(Yes) No (Yes) No
1555	MW-26	65.50	Flow 8.0 Meter 61129.90	(Yes) No (Yes) No
1559	TW4-19	63.82	Flow 18.1 Meter 299260.00	(Yes) No (Yes) No
1550	TW4-20	63.35	Flow 7.0 Meter 117221.42	(Yes) No (Yes) No
1242	TW4-4	73.80	Flow 11.5 Meter 271053.60	(Yes) No (Yes) No
1520	TWN-2	33.34	Flow Meter 576248.20	(Yes) No (Yes) No
1505	TW4-22	58.91	Flow 18.0 Meter 291147.40	(Yes) No (Yes) No
1509	TW4-24	64.07	Flow 16.2 Meter 28518.80	(Yes) No (Yes) No
1511	TW4-25	64.55	Flow 14.4 Meter 1440684.30	(Yes) No (Yes) No
1244	TW4-1	80.90	Flow 16.0 Meter 99049.60	(Yes) No (Yes) No
1251	TW4-2	99.69	Flow 16.4 Meter 96436.40	(Yes) No (Yes) No
1253	TW4-11	91.56	Flow 16.0 Meter 24091.70	(Yes) No (Yes) No
1514	TW4-21	67.88	Flow 16.2 Meter 331195.91	(Yes) No (Yes) No
1502	TW4-37	62.20	Flow 18.0 Meter 293701.90	(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.

11972

# Monthly Depth Check Form

Date 1/27/16

Name Garrin Palmer, Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
1223	MW-4	80.12	1250	TWN-1	62.40
1224	TW4-1	81.44	1251	TWN-2	29.98
1222	TW4-2	90.68	1253	TWN-3	39.30
1325	TW4-3	56.96	1306	TWN-4	55.22
1226	TW4-4	76.88	1314	TWN-7	85.40
1322	TW4-5	64.60	1304	TWN-18	60.50
1331	TW4-6	72.30	1310	MW-27	54.36
1329	TW4-7	77.20	1432	MW-30	75.56
1327	TW4-8	81.15	1422	MW-31	68.56
1323	TW4-9	62.49			
1319	TW4-10	62.10			
1220	TW4-11	91.40			
1407	TW4-12	45.76			
1401	TW4-13	52.12	1404	TW4-28	39.84
1357	TW4-14	80.42	1356	TW4-29	73.85
1218	TW4-15	67.92	1349	TW4-30	76.17
1241	TW4-16	64.00	1348	TW4-31	80.05
1419	TW4-17	77.35	1405	TW4-32	51.35
1247	TW4-18	65.51	1342	TW4-33	72.55
1201	TW4-19	64.02	1354	TW4-34	71.85
1216	TW4-20	63.52	1351	TW4-35	74.30
1245	TW4-21	69.10	1359	TW4-36	56.68
1214	TW4-22	59.48			
1337	TW4-23	69.35	1215	TW4-37	64.02
1212	TW4-24	64.00			
1210	TW4-25	65.22			
1334	TW4-26	66.67			
1344	TW4-27	80.03			

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

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\* Depth is measured to the nearest 0.01 feet

4563930

## Weekly Inspection Form

Date 2/3/16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
0845	MW-4	82.42	Flow 4.4 Meter 916431.66	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0835	MW-26	67.81	Flow 7.9 Meter 62921.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0745	TW4-19	66.82	Flow 18.4 Meter 310328.14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0831	TW4-20	63.14	Flow 7.0 Meter 118675.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0853	TW4-4	75.80	Flow 11.0 Meter 276562.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0814	TWN-2	34.80	Flow 18.6 Meter 581173.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0824	TW4-22	60.70	Flow 18.0 Meter 293541.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0820	TW4-24	64.01	Flow 8.4 Meter 39960.33	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0809	TW4-25	64.62	Flow 15.0 Meter 1451715.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0849	TW4-1	80.40	Flow 16.0 Meter 101086.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0842	TW4-2	97.46	Flow 17.0 Meter 98512.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0839	TW4-11	99.79	Flow 16.2 Meter 24371.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0805	TW4-21	68.88	Flow 16.2 Meter 343043.92	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0828	TW4-37	63.40	Flow 16.6 Meter 304652.40	<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.

## Weekly Inspection Form

Date 2/10/16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0832	MW-4	81.03	Flow 4.4 Meter 923691.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0823	MW-26	63.62	Flow 8.0 Meter 64488.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0740	TW4-19	65.28	Flow 18.2 Meter 319366.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0820	TW4-20	64.18	Flow 7.2 Meter 119785.27	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0839	TW4-4	74.26	Flow 11.2 Meter 280827.90	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0804	TWN-2	33.71	Flow 18.6 Meter 594750.50	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0813	TW4-22	68.39	Flow 17.0 Meter 295330.90	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0809	TW4-24	64.36	Flow 17.0 Meter 48315.71	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0758	TW4-25	64.00	Flow 15.0 Meter 1460067.20	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0837	TW4-1	91.29	Flow 16.0 Meter 102440.00	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0829	TW4-2	80.85	Flow 15.0 Meter 100117.60	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0826	TW4-11	98.62	Flow 16.0 Meter 24620.00	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0755	TW4-21	67.60	Flow 14.8 Meter 352686.18	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No
0817	TW4-37	67.04	Flow 17.1 Meter 313130.60	<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 2/16/16

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1411	MW-4	80.23	Flow 4.5 Meter 929911.53	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1400	MW-26	63.60	Flow 8.5 Meter 65767.00	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1320	TW4-19	63.19	Flow 18.4 Meter 328624.50	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1430	TW4-20	64.10	Flow 4.2 Meter 120706.08	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1419	TW4-4	74.82	Flow 11.1 Meter 284733.20	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1347	TWN-2	37.83	Flow 18.8 Meter 587804.60	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1438	TW4-22	60.31	Flow 17.1 Meter 297014.20	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1441	TW4-24	63.62	Flow 16.6 Meter 55339.29	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1343	TW4-25	63.85	Flow 15.0 Meter 1468569.20	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1415	TW4-1	92.59	Flow 16.0 Meter 103747.11	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1408	TW4-2	81.34	Flow 16.6 Meter 101537.80	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1404	TW4-11	91.48	Flow 17.0 Meter 24878.20	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1337	TW4-21	67.11	Flow 16.4 Meter 361187.93	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No
1434	TW4-37	63.75	Flow 17.4 Meter 320809.10	<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 2/22/16

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1305	MW-4	74.29	Flow 4.5 Meter 9359985.46	(Yes) No (Yes) No
1257	MW-26	63.98	Flow 7.0 Meter 66952.70	(Yes) No (Yes) No
1222	TW4-19	64.22	Flow 18.0 Meter 336291.10	(Yes) No (Yes) No
1253	TW4-20	70.11	Flow 4.2 Meter 121750.52	(Yes) No (Yes) No
1308	TW4-4	72.85	Flow 11.0 Meter 288502.10	(Yes) No (Yes) No
1236	TWN-2	60.04	Flow 18.8 Meter 590991.70	(Yes) No (Yes) No
1246	TW4-22	87.59	Flow 18.0 Meter 298691.60	(Yes) No (Yes) No
1243	TW4-24	76.23	Flow 17.4 Meter 61724.06	(Yes) No (Yes) No
1240	TW4-25	98.57	Flow 14.2 Meter 1476168.30	(Yes) No (Yes) No
1307	TW4-1	90.22	Flow 16.0 Meter 105017.60	(Yes) No (Yes) No
1304	85.14 TW4-2	<del>102</del> 85.14	Flow 16.6 Meter 102989.50	(Yes) No (Yes) No
1259	TW4-11	91.91	Flow 16.0 Meter 25112.00	(Yes) No (Yes) No
1230	TW4-21	57.45	Flow 16.8 Meter 369372.97	(Yes) No (Yes) No
1249	TW4-37	74.28	Flow 16.0 Meter 328021.40	(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.

# Monthly Depth Check Form

Date 2/24/16

Name Garrin Palmer, Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
1339	MW-4	72.11	1426	TWN-1	62.45
1319	TW4-1	88.33	1424	TWN-2	30.02
1321	TW4-2	85.05	0803	TWN-3	39.80
1334	TW4-3	56.99	1434	TWN-4	55.25
1359	TW4-4	73.04	0752	TWN-7	95.35
1332	TW4-5	64.65	1431	TWN-18	60.45
1340	TW4-6	72.34	1437	MW-27	54.28
1339	TW4-7	77.00	1417	MW-30	75.50
1337	TW4-8	<del>80.78</del> 80.78	1414	MW-31	68.50
1334	TW4-9	62.55			
1330	TW4-10	62.14			
1317	TW4-11	92.02			
1405	TW4-12	45.85			
1402	TW4-13	52.10	1406	TW4-28	39.90
1400	TW4-14	80.14	1358	TW4-29	73.81
1316	TW4-15	64.18	1352	TW4-30	76.05
1422	TW4-16	64.00	1351	TW4-31	79.87
1412	TW4-17	77.36	1407	TW4-32	51.34
1427	TW4-18	65.52	1347	TW4-33	72.60
1300	TW4-19	64.71	1357	TW4-34	71.85
1318	TW4-20	70.02	1354	TW4-35	74.24
1432	TW4-21	67.70	1401	TW4-36	56.62
1316	TW4-22	68.41	1317	TW4-37	64.22
1344	TW4-23	69.39			
134	TW4-24	75.40			
1425	TW4-25	63.66			
1342	TW4-26	66.75			
1349	TW4-27	79.89			

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

Quarterly nitrate sampling was done on the 23rd-24th.

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\* Depth is measured to the nearest 0.01 feet

## Weekly Inspection Form

Date 2/29/16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1434	MW-4	72.02	Flow 4.5 Meter 942861.36	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1459	MW-26	71.40	Flow 7.0 Meter 68266.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1527	TW4-19	65.75	Flow 18.0 Meter 345373.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1457	TW4-20	63.60	Flow 4.2 Meter 122824.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1425	TW4-4	74.88	Flow 11.0 Meter 292882.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1356	TWN-2	29.80	Flow 18.8 Meter 594679.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1447	TW4-22	59.50	Flow 17.0 Meter 300222.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1442	TW4-24	74.62	Flow 16.2 Meter 68852.74	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1352	TW4-25	70.75	Flow 15.0 Meter 1494903.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1429	TW4-1	88.12	Flow 16.0 Meter 106589.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1507	TW4-2	79.50	Flow 16.6 Meter 104435.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1504 <del>1504</del>	TW4-11	91.22	Flow 16.0 Meter 25499.60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1347	TW4-21	67.36	Flow 16.6 Meter 378811.96	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1452	TW4-37	63.15	Flow 17.5 Meter 336837.90	<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.

## Weekly Inspection Form

Date 3-7-16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1434	MW-4	80.05	Flow 4.5 Meter 949874.39	(Yes) No (Yes) No
1427	MW-26	62.31	Flow 9.0 Meter 69505.70	(Yes) No (Yes) No
1347	TW4-19	64.86	Flow 18.2 Meter 354014.30	(Yes) No (Yes) No
1425	TW4-20	63.66	Flow 7.2 Meter 124095.16	(Yes) No (Yes) No
1440	TW4-4	73.96	Flow 11.0 Meter 297267.00	(Yes) No (Yes) No
1412	TWN-2	29.04	Flow 18.8 Meter 598265.40	(Yes) No (Yes) No
1420	TW4-22	65.19	Flow 17.0 Meter 302422.40	(Yes) No (Yes) No
1415	TW4-24	63.10	Flow 16.4 Meter 75429.75	(Yes) No (Yes) No
1408	TW4-25	63.25	Flow 15.0 Meter 1493969	(Yes) No (Yes) No
1437	TW4-1	89.70	Flow 15.6 Meter 107938.50	(Yes) No (Yes) No
1431	TW4-2	79.70	Flow 16.8 Meter 106087.30	(Yes) No (Yes) No
1429	TW4-11	91.06	Flow 16.0 Meter 25775.50	(Yes) No (Yes) No
1423	TW4-21	66.65	Flow 16.8 Meter 388459.35 e	(Yes) No (Yes) No
1404	TW4-37	66.90	Flow 16.4 Meter 345301.50	(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 3/14/16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1216	MW-4	80.04	Flow 4.5 Meter 966475.09	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1207	MW-26	63.30	Flow 9.0 Meter 71052.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1028	TW4-19	64.04	Flow 18.0 Meter 362796.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1203	TW4-20	64.60	Flow 7.2 Meter 125106.63	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1223	TW4-4	75.32	Flow 11.0 Meter 301520.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1050	TWN-2	29.55	Flow 18.0 Meter 601817.80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1156	TW4-22	59.02	Flow 17.6 Meter 304398.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1055	TW4-24	64.86	Flow 16.0 Meter 812156.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1046	TW4-25	63.88	Flow 15.0 Meter 1502506.80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1219	TW4-1	84.40	Flow 16.0 Meter 109476.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1213	TW4-2	79.15	Flow 17.0 Meter 107570.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1211	TW4-11	92.64	Flow 16.0 Meter 25957.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1042	TW4-21	67.15	Flow 16.2 Meter 397421.95	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1200	TW4-37	62.93	Flow 17.0 Meter 353651.80	<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.

## Weekly Inspection Form

Date 3/21/16

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0930	MW-4	79.86	Flow 4.5 Meter 962900.33	(Yes) No (Yes) No
0922	MW-26	63.63	Flow 8.6 Meter 72527.60	(Yes) No (Yes) No
0950	TW4-19	67.44	Flow 18.0 Meter 371303.10	(Yes) No (Yes) No
0919	TW4-20	64.29	Flow 6.0 Meter 126208.43	(Yes) No (Yes) No
0936	TW4-4	72.36	Flow 11.0 Meter 305815.50	(Yes) No (Yes) No
0908	TWN-2	71.35	Flow 18.4 Meter 605571.60	(Yes) No (Yes) No
0914	TW4-22	58.90	Flow 17.0 Meter 306179.70	(Yes) No (Yes) No
0912	TW4-24	62.65	Flow 16.6 Meter 85731.61	(Yes) No (Yes) No
0905	TW4-25	92.12	Flow 14.4 Meter 1511422.40	(Yes) No (Yes) No
0933	TW4-1	83.55	Flow 16.0 Meter 110867.00	(Yes) No (Yes) No
0928	TW4-2	79.00	Flow 17.0 Meter 108980.10	(Yes) No (Yes) No
0925	TW4-11	96.65	Flow 16.0 Meter 26220.50	(Yes) No (Yes) No
0900	TW4-21	67.85	Flow 16.2 Meter 406891.88	(Yes) No (Yes) No
0916	TW4-37	62.80	Flow 17.2 Meter 361979.70	(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 3/28/16

Name Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1345	MW-4	82.11	Flow 4.5	<input checked="" type="checkbox"/> Yes No
			Meter 969787.86	<input checked="" type="checkbox"/> Yes No
1337	MW-26	67.36	Flow 8.6	<input checked="" type="checkbox"/> Yes No
+33			Meter 74285.10	<input checked="" type="checkbox"/> Yes No
1100	TW4-19	64.10	Flow 17.6	<input checked="" type="checkbox"/> Yes No
			Meter 380216.40	<input checked="" type="checkbox"/> Yes No
1334	TW4-20	63.35	Flow 7.0	<input checked="" type="checkbox"/> Yes No
			Meter 127458.93	<input checked="" type="checkbox"/> Yes No
1351	TW4-4	74.22	Flow 11.0	<input checked="" type="checkbox"/> Yes No
			Meter 310470.80	<input checked="" type="checkbox"/> Yes No
1321	TWN-2	29.70	Flow 18.7	<input checked="" type="checkbox"/> Yes No
			Meter 609851.40	<input checked="" type="checkbox"/> Yes No
1325	TW4-22	58.20	Flow 17.8	<input checked="" type="checkbox"/> Yes No
			Meter 308063.20	<input checked="" type="checkbox"/> Yes No
1324	TW4-24	62.28	Flow 16.8	<input checked="" type="checkbox"/> Yes No
			Meter 90515.95	<input checked="" type="checkbox"/> Yes No
1316	TW4-25	64.34	Flow 15.0	<input checked="" type="checkbox"/> Yes No
			Meter 1520464.80	<input checked="" type="checkbox"/> Yes No
1348	TW4-1	95.61	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 112231.00	<input checked="" type="checkbox"/> Yes No
1342	TW4-2	82.00	Flow 17.0	<input checked="" type="checkbox"/> Yes No
			Meter 110487.96	<input checked="" type="checkbox"/> Yes No
1339	TW4-11	92.40	Flow 16.4	<input checked="" type="checkbox"/> Yes No
			Meter 26512.96	<input checked="" type="checkbox"/> Yes No
1312	TW4-21	67.04	Flow 16.1	<input checked="" type="checkbox"/> Yes No
			Meter 416319.24	<input checked="" type="checkbox"/> Yes No
1331	TW4-37	61.97	Flow 17.0	<input checked="" type="checkbox"/> Yes No
			Meter 370598.40	<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.

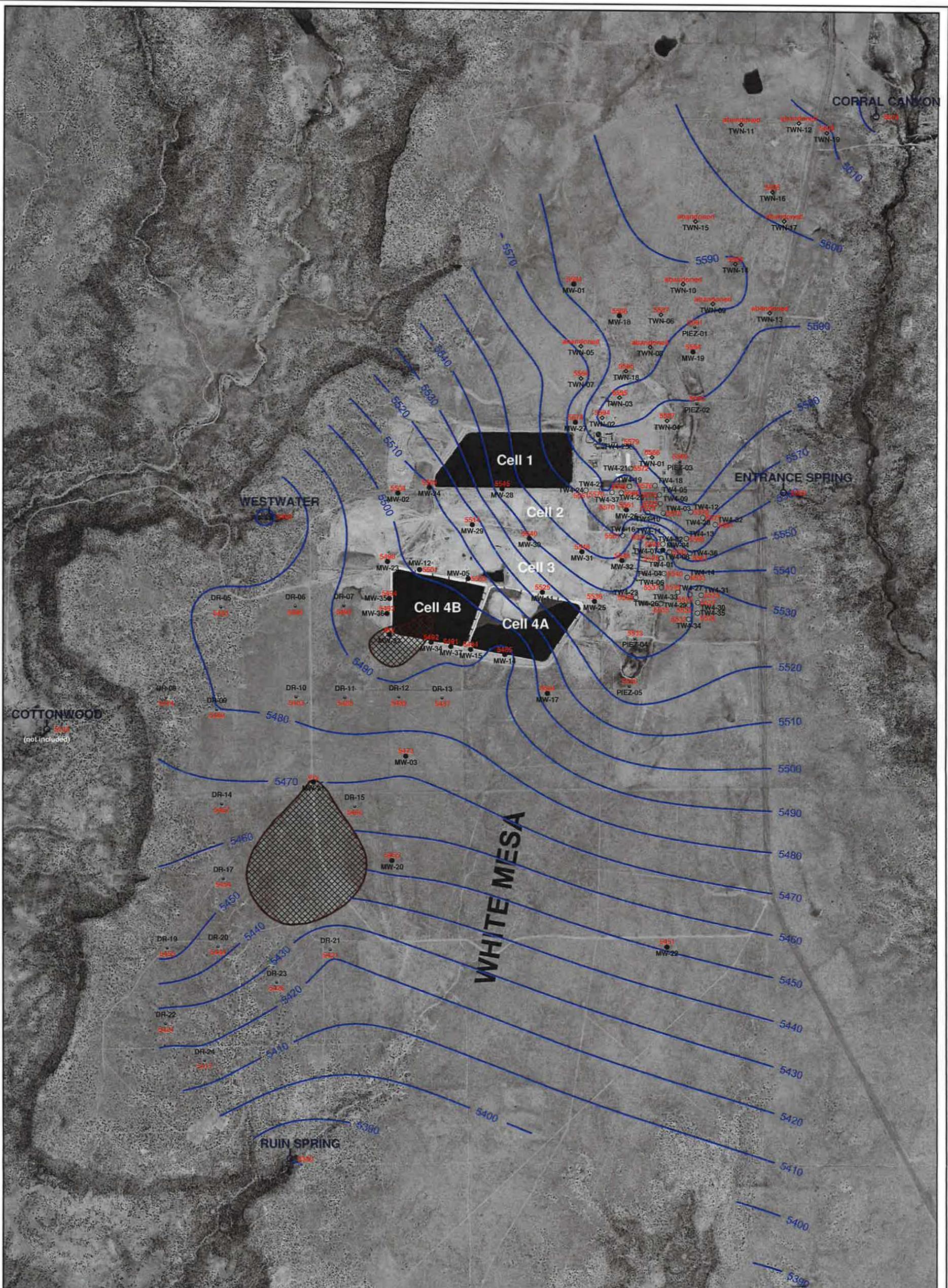
**Tab D**

**Kriged Current Quarter Groundwater Contour Map, Details Map, and Depth to Water Summary**

NAME: Garrin Palmer, Tanner Holliday

3/30/2016

TIME	WELL	DEPTH TO WATER (ft.)	TIME	WELL	DEPTH TO WATER (ft.)	TIME	WELL	DEPTH TO WATER (ft.)	TIME	WELL	DEPTH TO WATER (ft.)
1350	MW-1	64.00	754	MW-4	80.23	1339	PIEZ-1	64.89	NA	DR-1	Abandoned
1553	MW-2	109.50	806	TW4-1	91.03	1344	PIEZ-2	38.97	NA	DR-2	Abandoned
923	MW-3	82.16	803	TW4-2	82.50	728	PIEZ-3	48.57	823	DR-5	82.81
923	MW-3A	84.16	1511	TW4-3	56.61	1522	PIEZ-4	58.45	826	DR-6	94.11
1549	MW-5	105.77	808	TW4-4	73.11	1519	PIEZ-5	58.00	1539	DR-7	91.94
1606	MW-11	85.65	1508	TW4-5	64.40	735	TWN-1	62.20	835	DR-8	51.16
1547	MW-12	108.00	1516	TW4-6	72.02	731	TWN-2	32.44	832	DR-9	86.22
1527	MW-14	112.65	1515	TW4-7	75.99	718	TWN-3	39.21	830	DR-10	77.96
1530	MW-15	105.72	1513	TW4-8	79.40	724	TWN-4	54.97	916	DR-11	97.95
928	MW-17	71.55	1510	TW4-9	62.21		TWN-5	Abandoned	918	DR-12	90.95
1347	MW-18	71.70	1507	TW4-10	61.60	1356	TWN-6	78.02	926	DR-13	69.55
1342	MW-19	61.46	759	TW4-11	92.18	1352	TWN-7	85.07	845	DR-14	76.00
817	MW-20	85.81	1318	TW4-12	45.70		TWN-8	Abandoned	840	DR-15	92.56
812	MW-22	66.31	1316	TW4-13	51.55		TWN-9	Abandoned	NA	DR-16	Abandoned
1545	MW-23	113.78	1312	TW4-14	79.65		TWN-10	Abandoned	848	DR-17	64.55
1556	MW-24	112.75	740	TW4-15	64.38		TWN-11	Abandoned	NA	DR-18	Abandoned
1525	MW-25	76.51	701	TW4-16	63.10		TWN-12	Abandoned	851	DR-19	62.92
740	MW-26	64.38	1408	TW4-17	77.00		TWN-13	Abandoned	904	DR-20	55.11
715	MW-27	53.85	733	TW4-18	65.23	1336	TWN-14	60.83	909	DR-21	100.74
1557	MW-28	74.95	822	TW4-19	65.01		TWN-15	Abandoned	855	DR-22	60.58
1603	MW-29	100.42	806	TW4-20	63.66	1334	TWN-16	47.45	907	DR-23	70.22
1600	MW-30	74.97	734	TW4-21	67.54		TWN-17	Abandoned	858	DR-24	44.00
1610	MW-31	68.05	810	TW4-22	58.72	721	TWN-18	60.07	NA	DR-25	Abandoned
1408	MW-32	77.00	710	TW4-23	69.08	936	TWN-19	52.95			
1537	MW-33	DRY	808	TW4-24	64.14						
1534	MW-34	107.59	736	TW4-25	65.49						
1543	MW-35	112.11	1517	TW4-26	66.53						
1541	MW-36	110.30	1302	TW4-27	79.35						
1532	MW-37	108.64	1319	TW4-28	39.75						
			1310	TW4-29	73.50						
			1305	TW4-30	75.55						
			1304	TW4-31	79.26						
			1320	TW4-32	50.99						
			1301	TW4-33	72.40						
			1309	TW4-34	71.54						
			1307	TW4-35	73.86						
			1314	TW4-36	56.06						
			809	TW4-37	62.05						



**EXPLANATION**

-  estimated dry area
- MW-5**  
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5579 temporary perched monitoring well showing elevation in feet amsl
- TWN-7**  
 5564 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**  
 5591 perched piezometer showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl

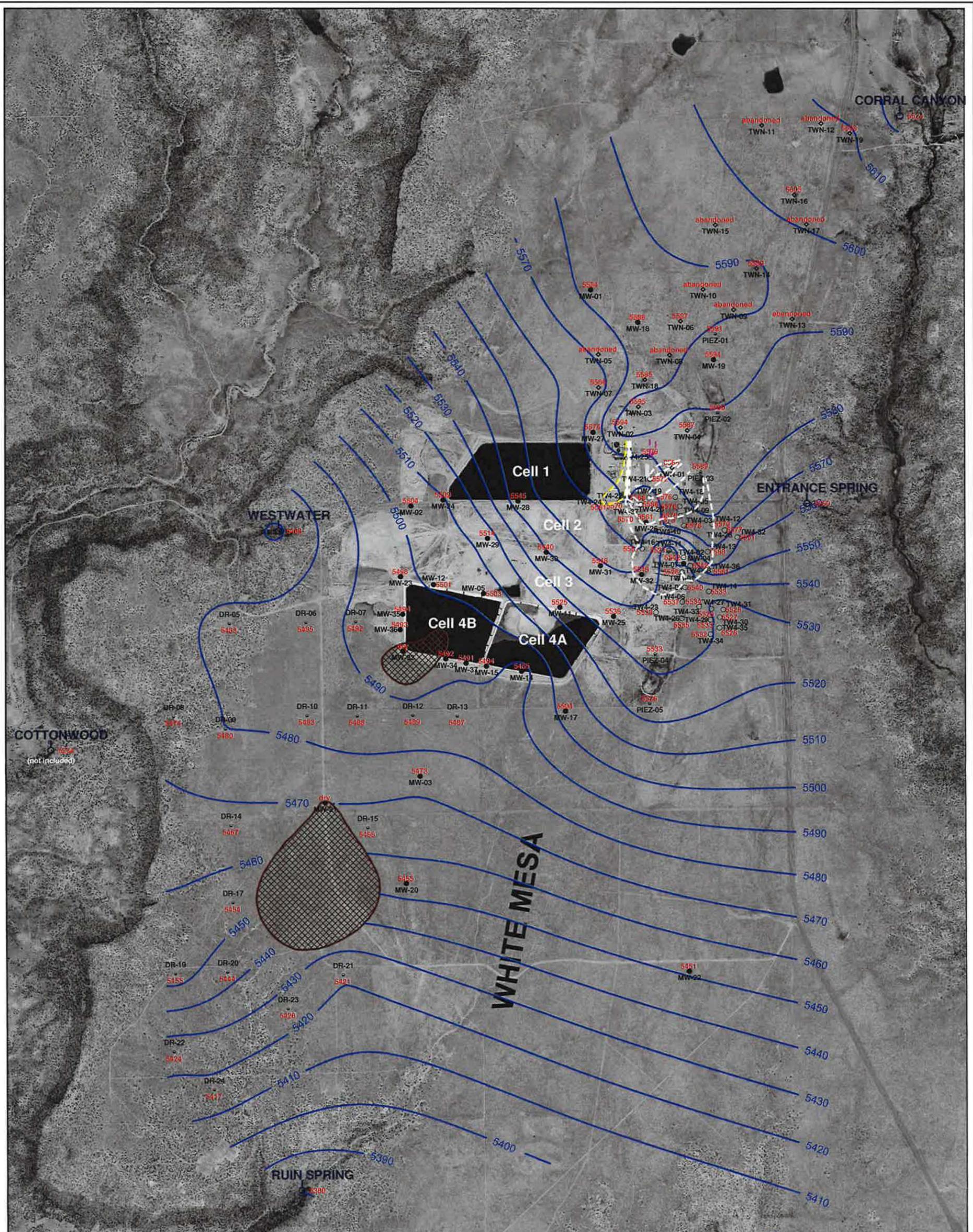
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells  
TW4-11 water level is below the base of the Burro Canyon Formation



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GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2016 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may16/WL/Uwl0316.srf	D-1



**EXPLANATION**

-  estimated nitrate capture zone boundary stream tubes resulting from pumping. (note: combined capture for TW4-22, and TW4-24 is shown)
-  estimated chloroform capture zone boundary stream tubes resulting from pumping
-  estimated dry area
- MW-5**  
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5579 temporary perched monitoring well showing elevation in feet amsl
- TWN-7**  
 5564 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**  
 5591 perched piezometer showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl

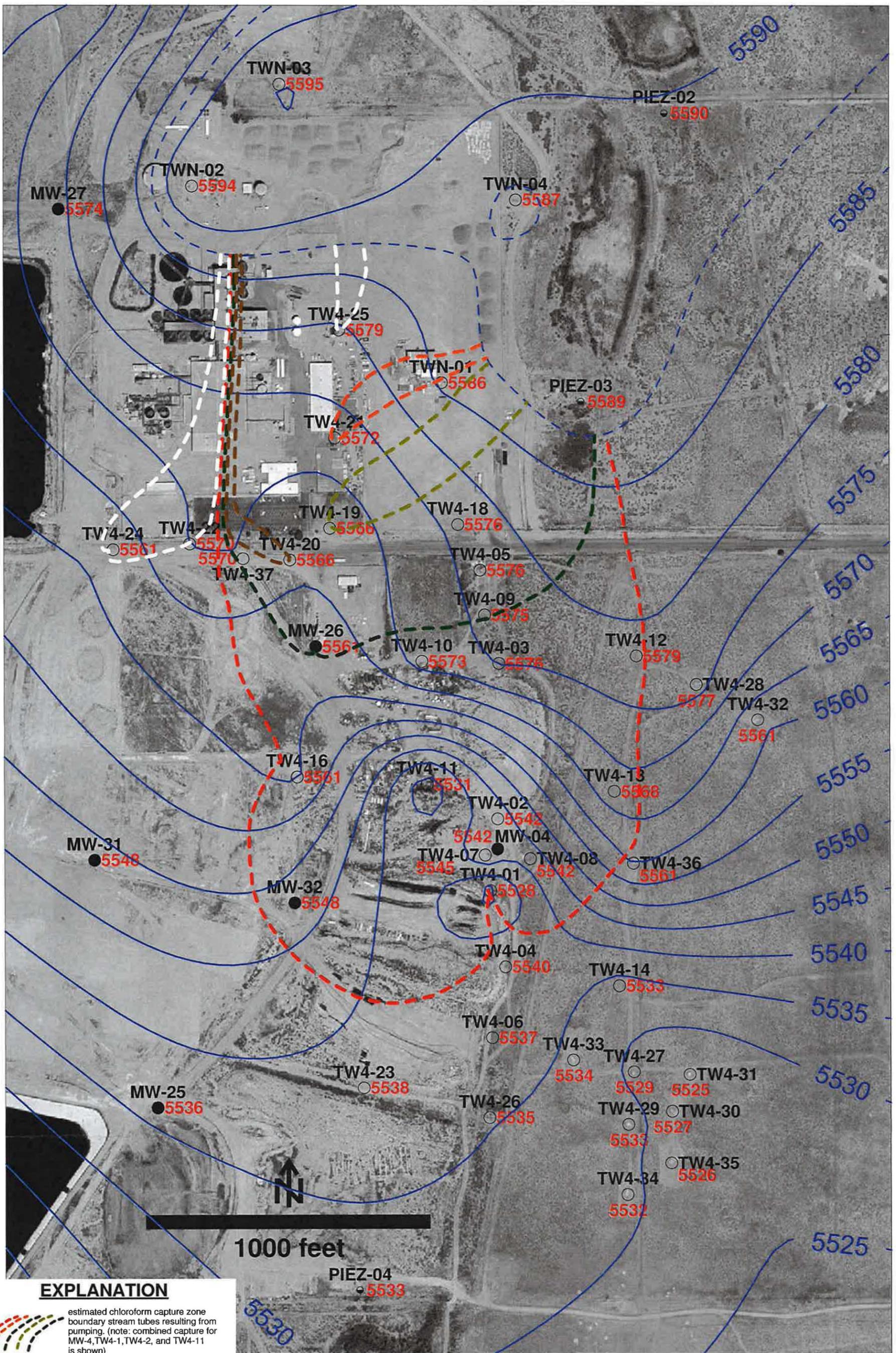
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells  
TW4-11 water level is below the base of the Burro Canyon Formation



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**KRIGED 1st QUARTER, 2016 WATER LEVELS  
AND ESTIMATED CAPTURE ZONES  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:718000/may16/WL/Uwl0316ntcz2.srf	D - 2



**EXPLANATION**

-  estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture for MW-4, TW4-1, TW4-2, and TW4-11 is shown)
-  estimated nitrate capture zone boundary stream tubes resulting from pumping
-  MW-25 5537 perched monitoring well showing elevation in feet amsl
-  TW4-7 5545 temporary perched monitoring well showing elevation in feet amsl
-  PIEZ-2 5590 perched piezometer 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



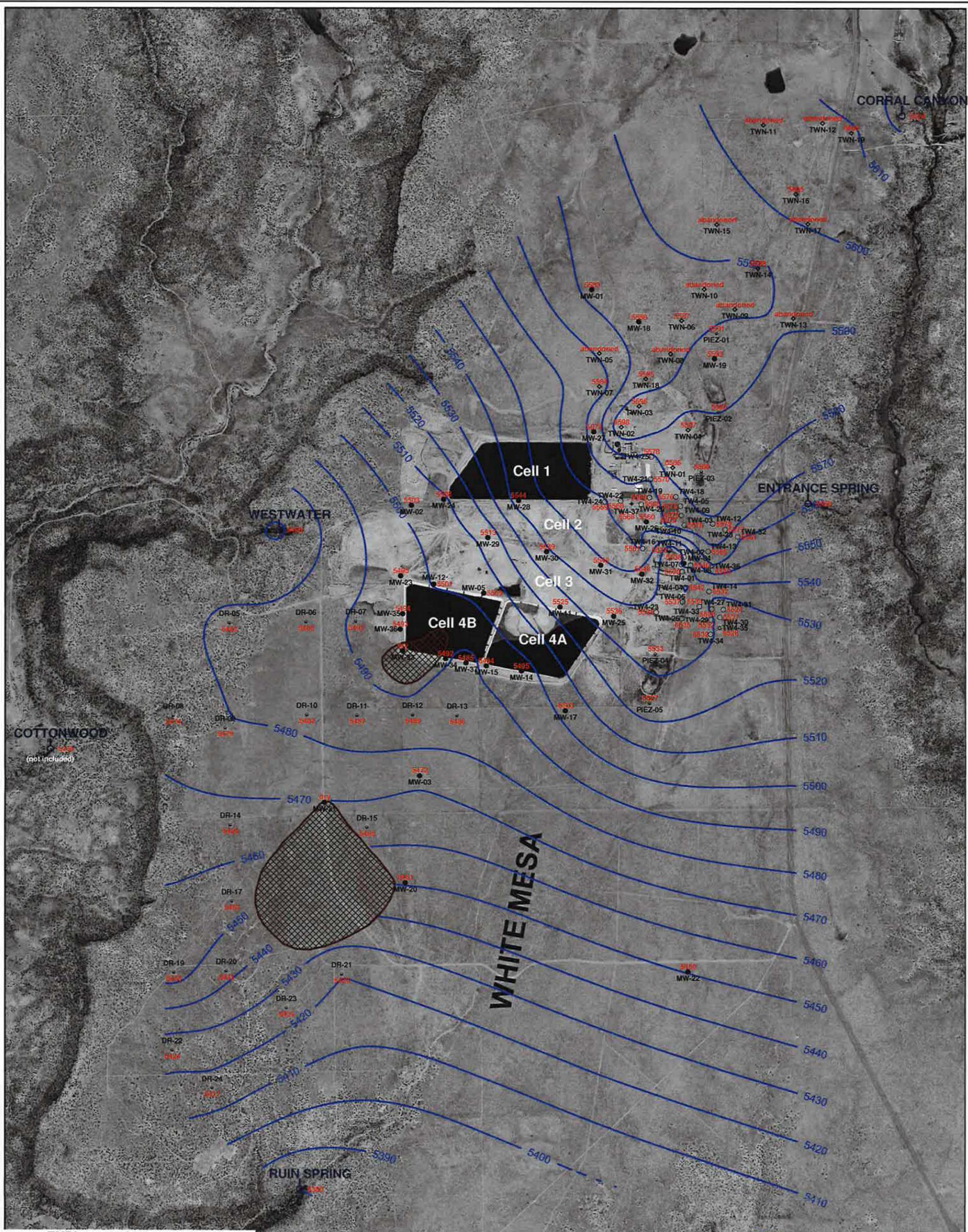
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**KRIGED 1st QUARTER, 2016 WATER LEVELS  
AND ESTIMATED CAPTURE ZONES  
WHITE MESA SITE  
(detail map)**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may16/WL/Uwl0316cz.srf	D-3

**Tab E**

**Kriged Previous Quarter Groundwater Contour Map**



**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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 CHEM, INC.**

**KRIGED 4th QUARTER, 2015 WATER LEVELS  
 WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:\718000\feb16\WL\Uw1215.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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.77	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.77	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.77	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	

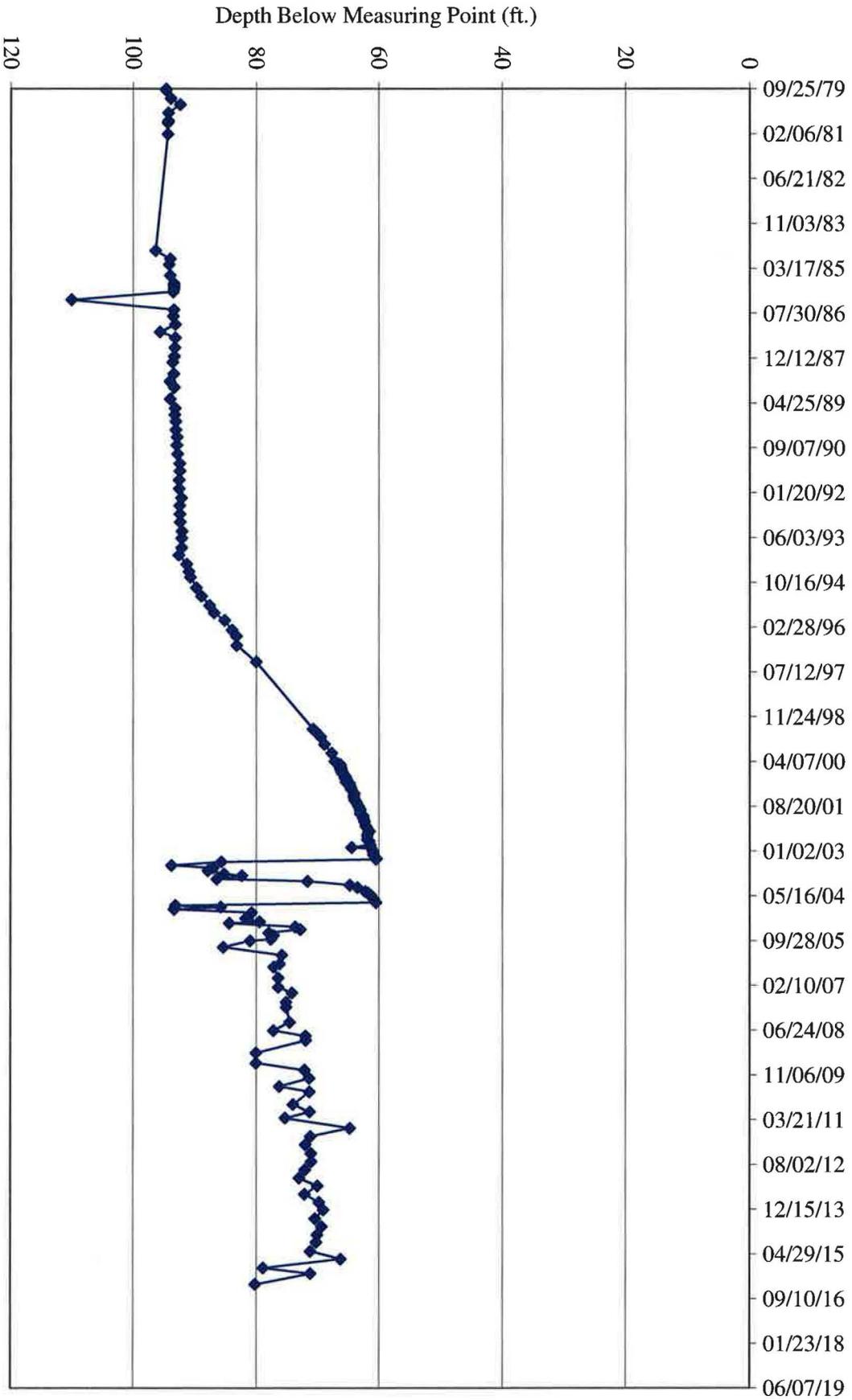
**Water Levels and Data over Time  
White Mesa Mill - Well MW4**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.77	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.77	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	
5,551.13				12/02/15	71.20	69.64	
5,542.10				03/30/16	80.23	78.67	

**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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
<b>z</b>	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	

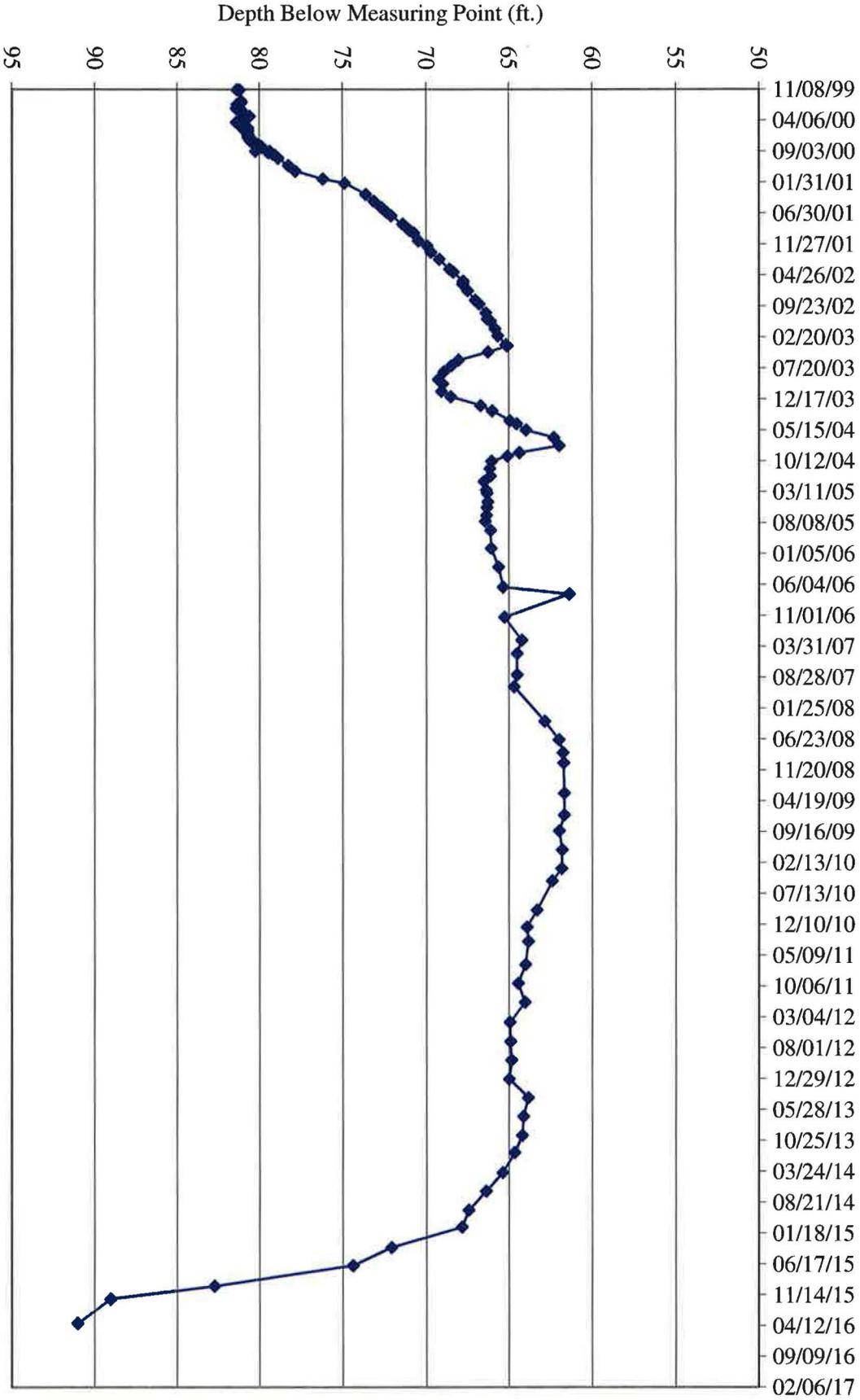
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-1**

Water Elevation (WL) 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)	
	5,620.77	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
<b>z</b>	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	
5,529.54				12/02/15	89.04	88.02	
5,527.55				03/30/16	91.03	90.01	

**TW4-1 Water Depth Over Time (ft. blmp)**



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-2**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.10	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.10	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	

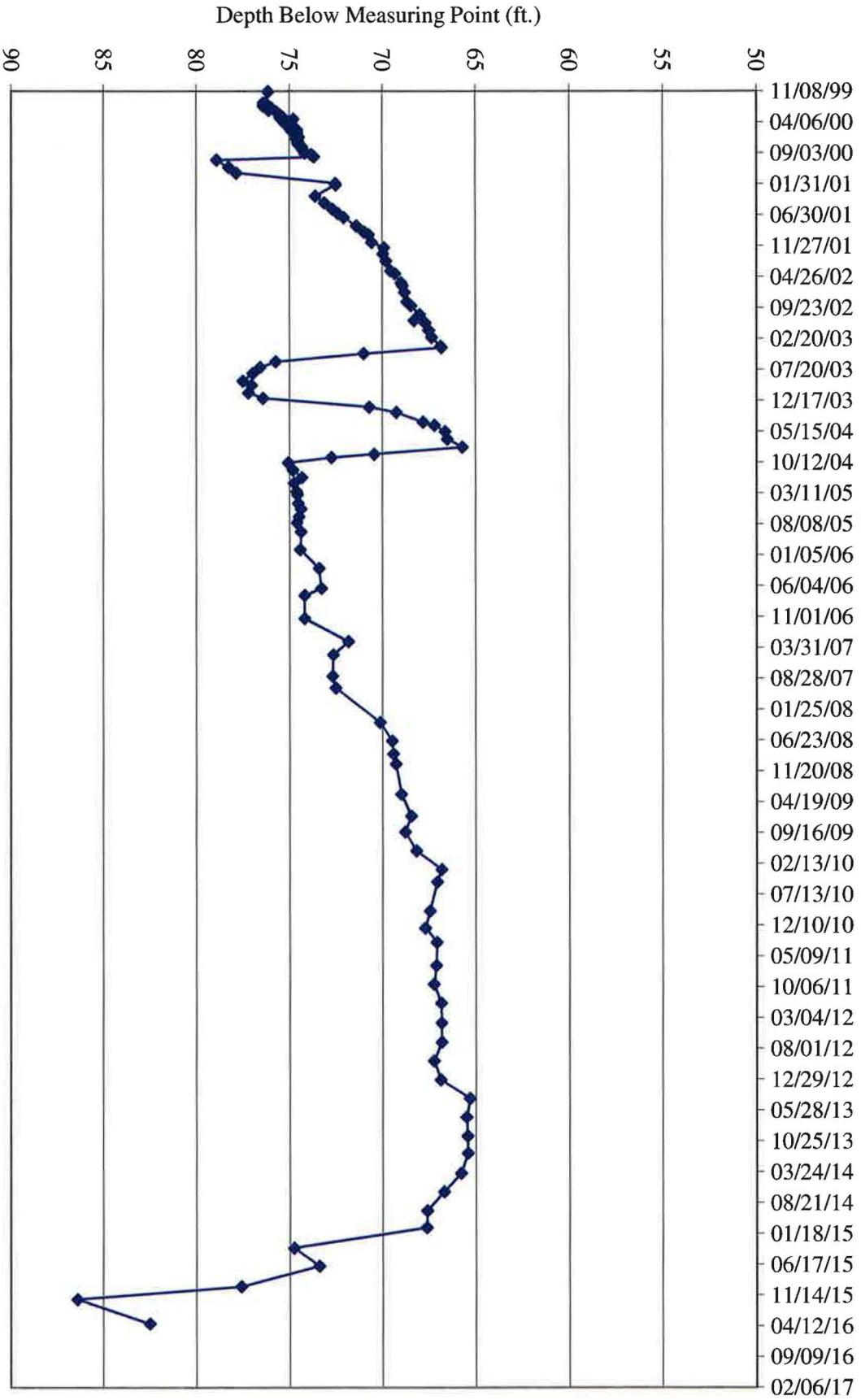
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-2**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.10	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.10	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	
5,538.34				12/02/15	86.38	84.76	
5,542.22				03/30/16	82.50	80.88	

**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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,631.21	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	

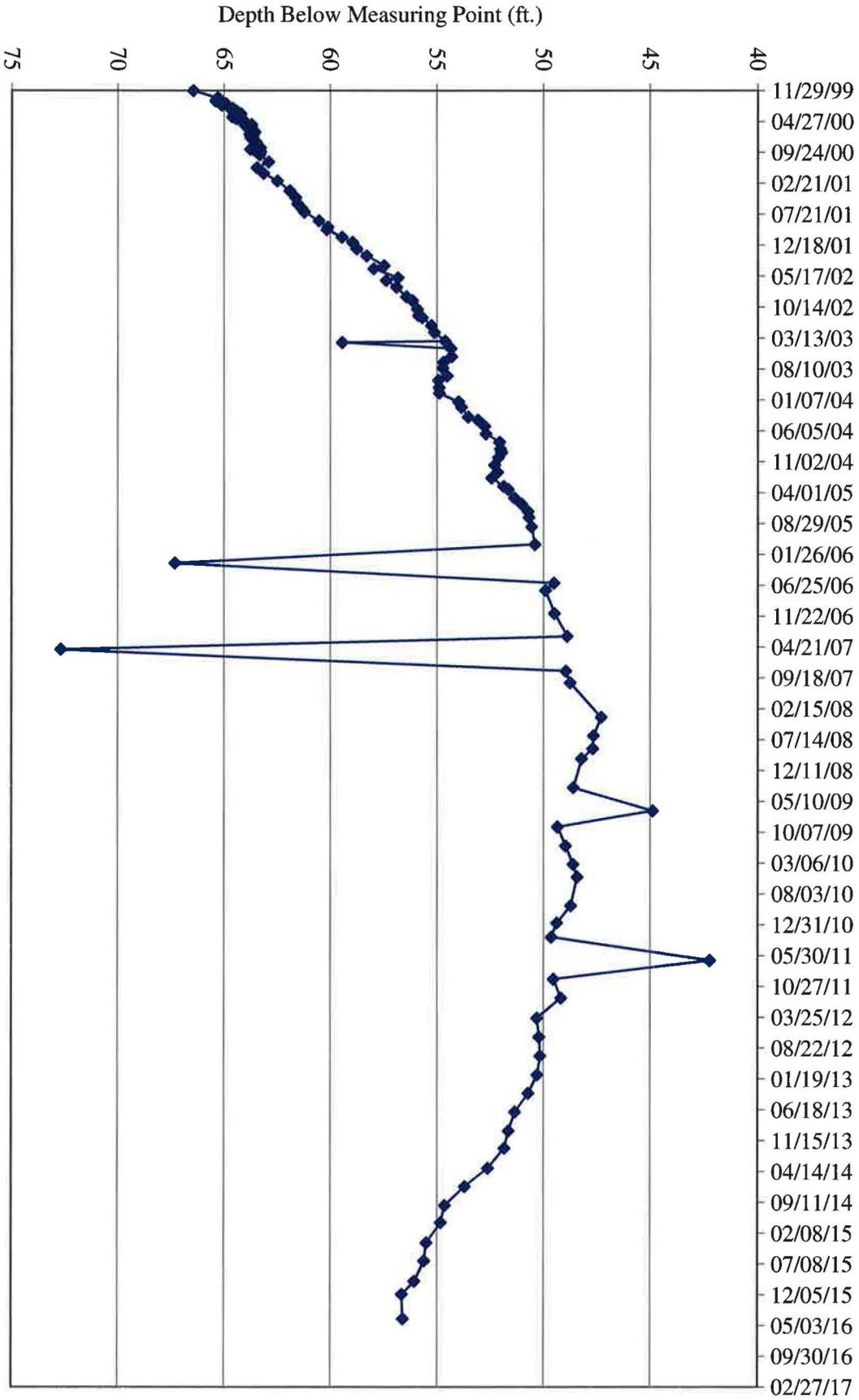
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-3**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,631.21	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	
5583.35				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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,631.21	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	
5,575.57				12/02/15	56.66	55.64	
5,575.62				03/30/16	56.61	55.59	

TW4-3 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-4**

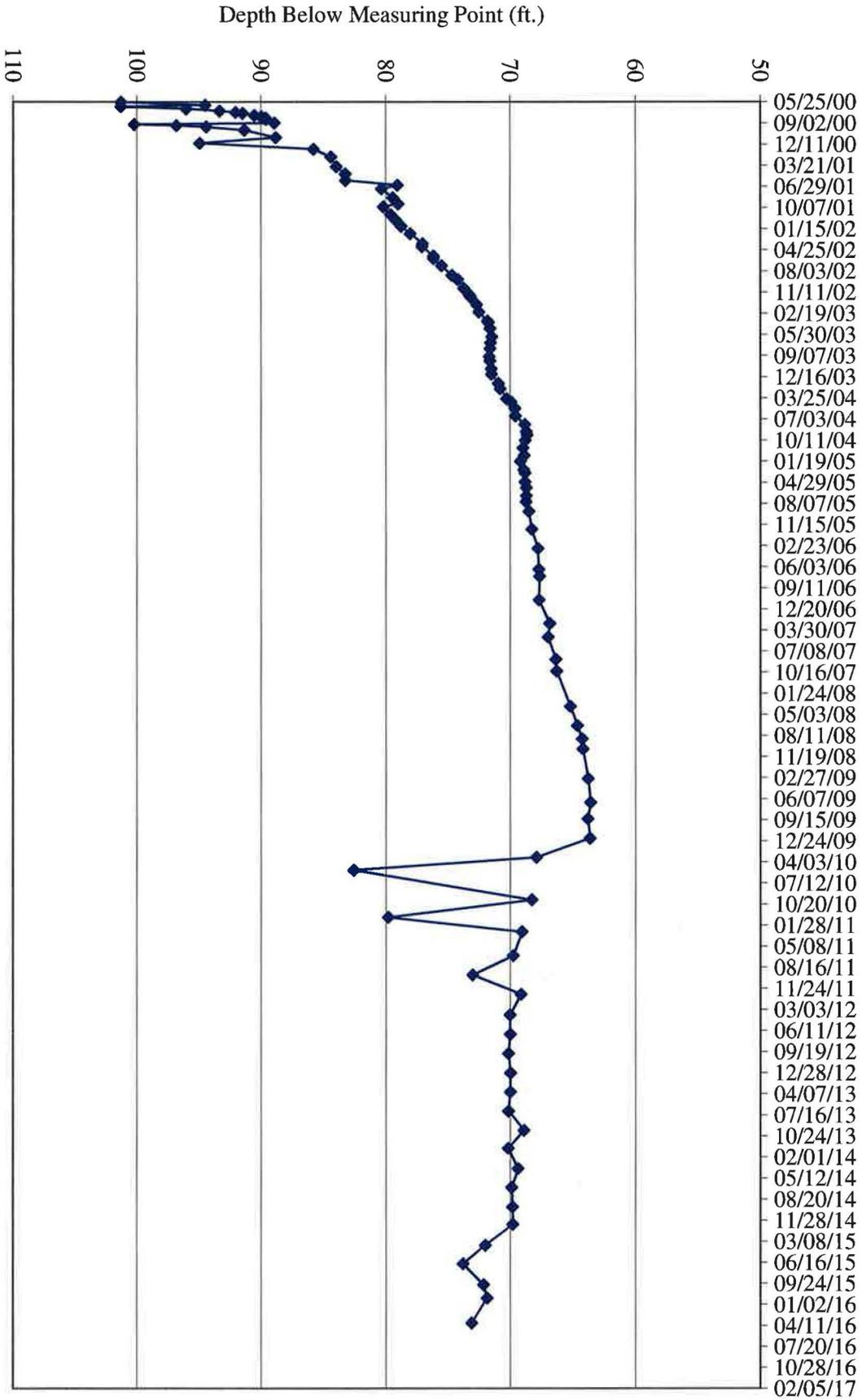
<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,612.301	5,613.485	1.184				114.5
5,512.145				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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,612.301	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,612.301	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	
5,541.63				12/02/15	71.86	70.68	
5,540.38				03/30/16	73.11	71.93	



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-5**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.75	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.75	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	

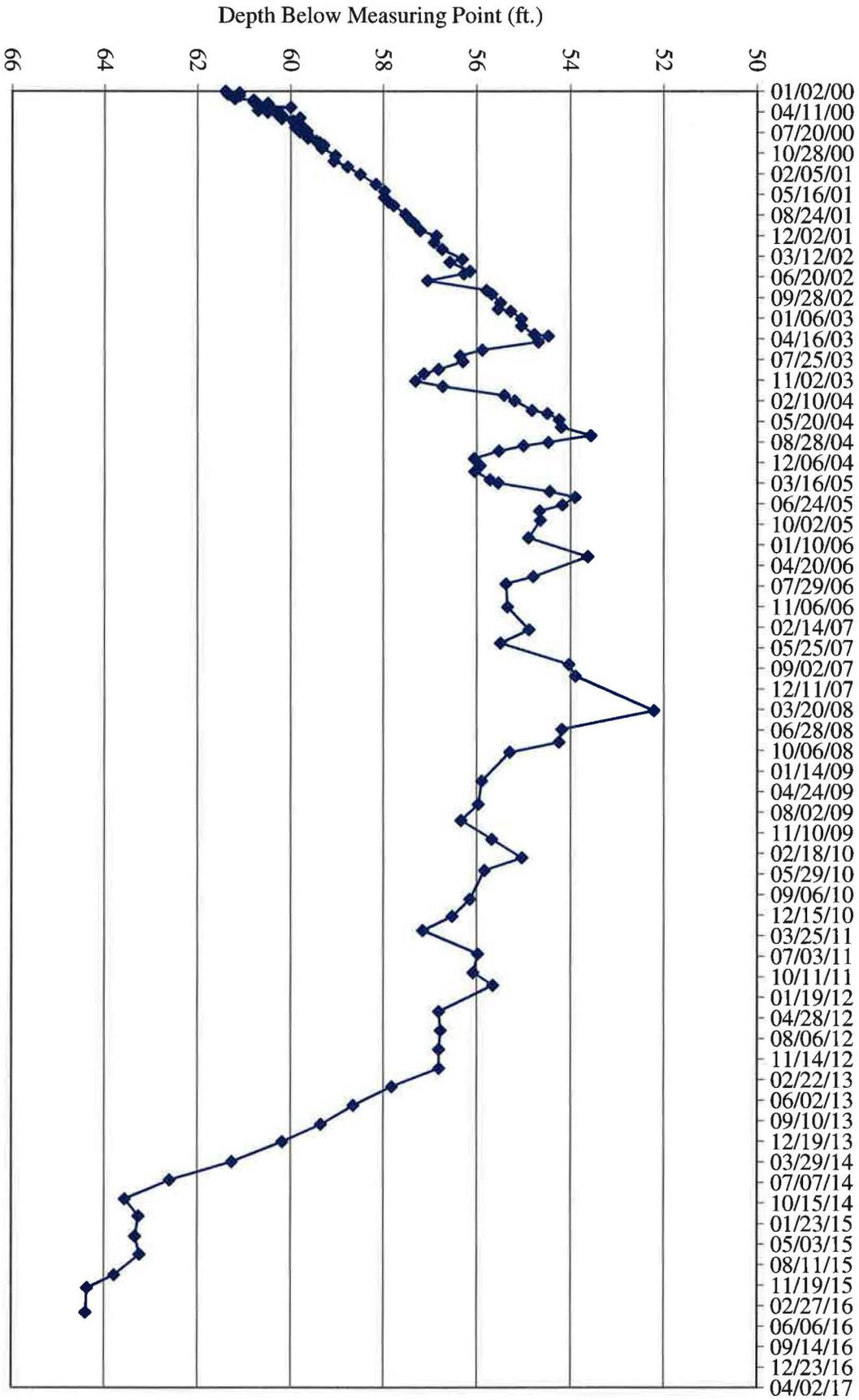
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-5**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.75	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.75	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	
5,576.33				12/02/15	64.37	62.42	
5,576.30				03/30/16	64.40	62.45	

TW4-5 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-6**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	

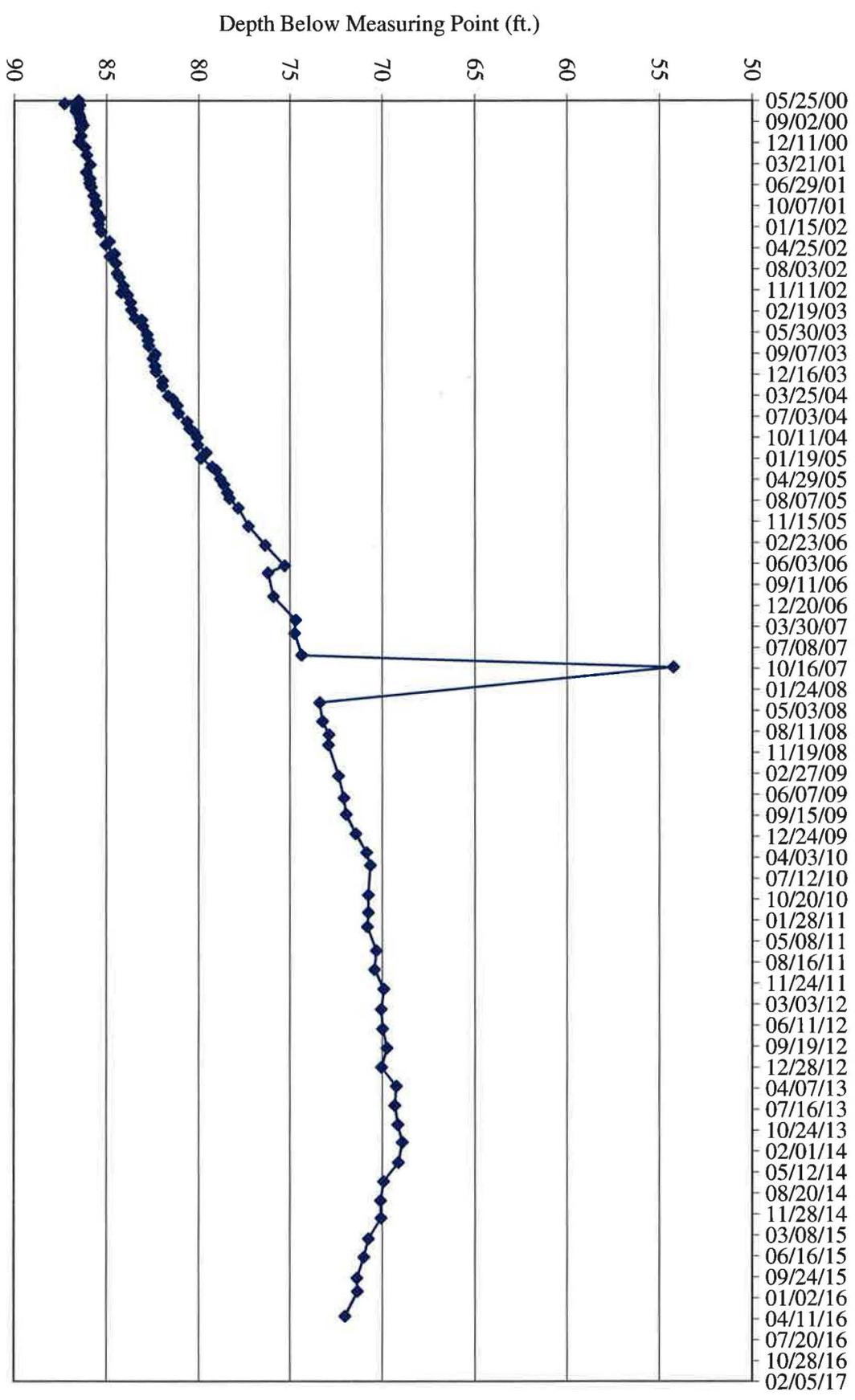
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-6**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	
5534.09				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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	
5,537.44				12/02/15	71.34	69.89	
5,536.76				03/30/16	72.02	70.57	

**TW4-6 Water Depth Over Time (ft. blmp)**



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-7**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	

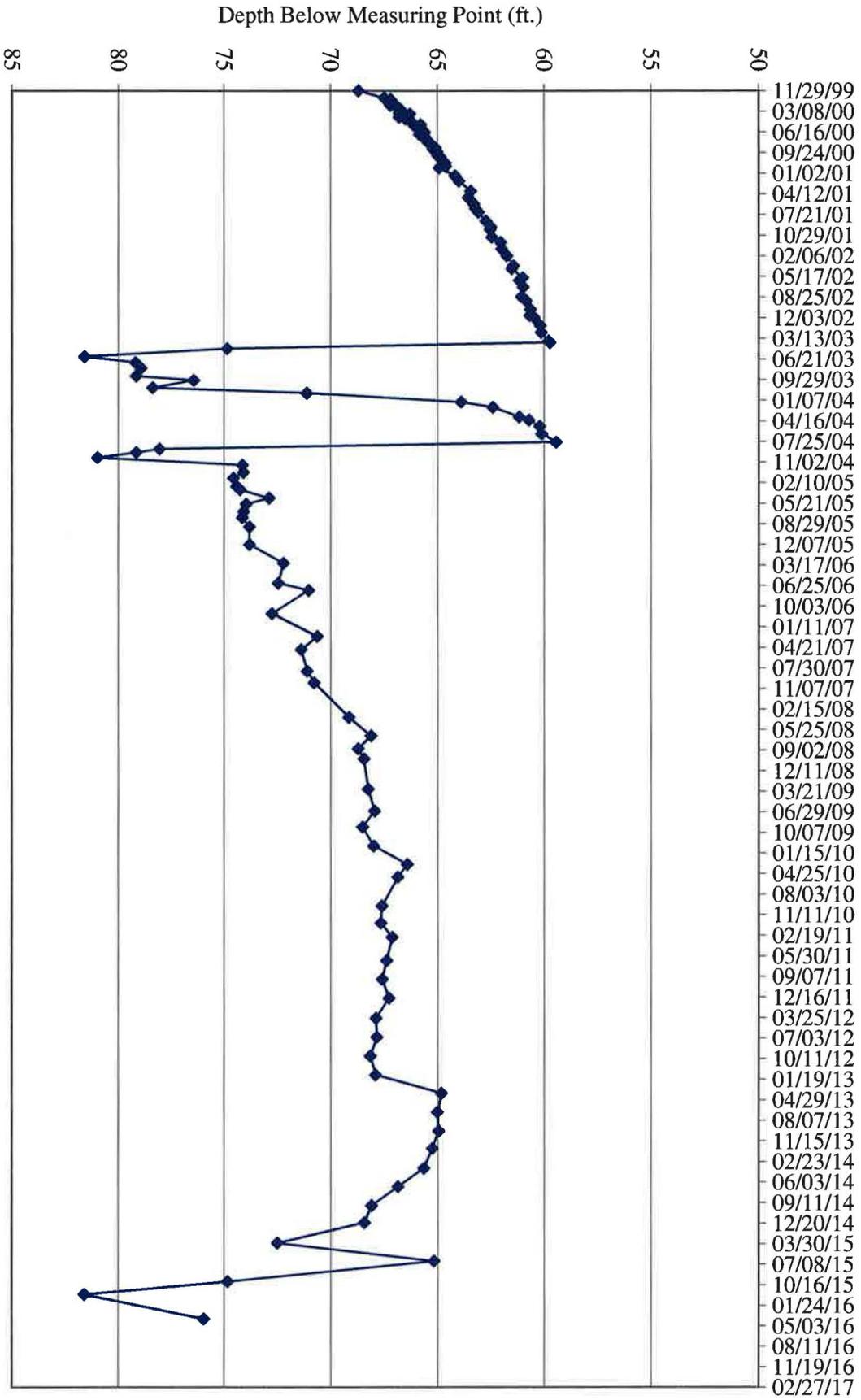
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-7**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
		Elevation (MP)	Length Of Riser (L)				
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	
5,539.47				12/02/15	81.60	80.40	
5,545.08				03/30/16	75.99	74.79	

TW4-7 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-8**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,616.80	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,616.80	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	

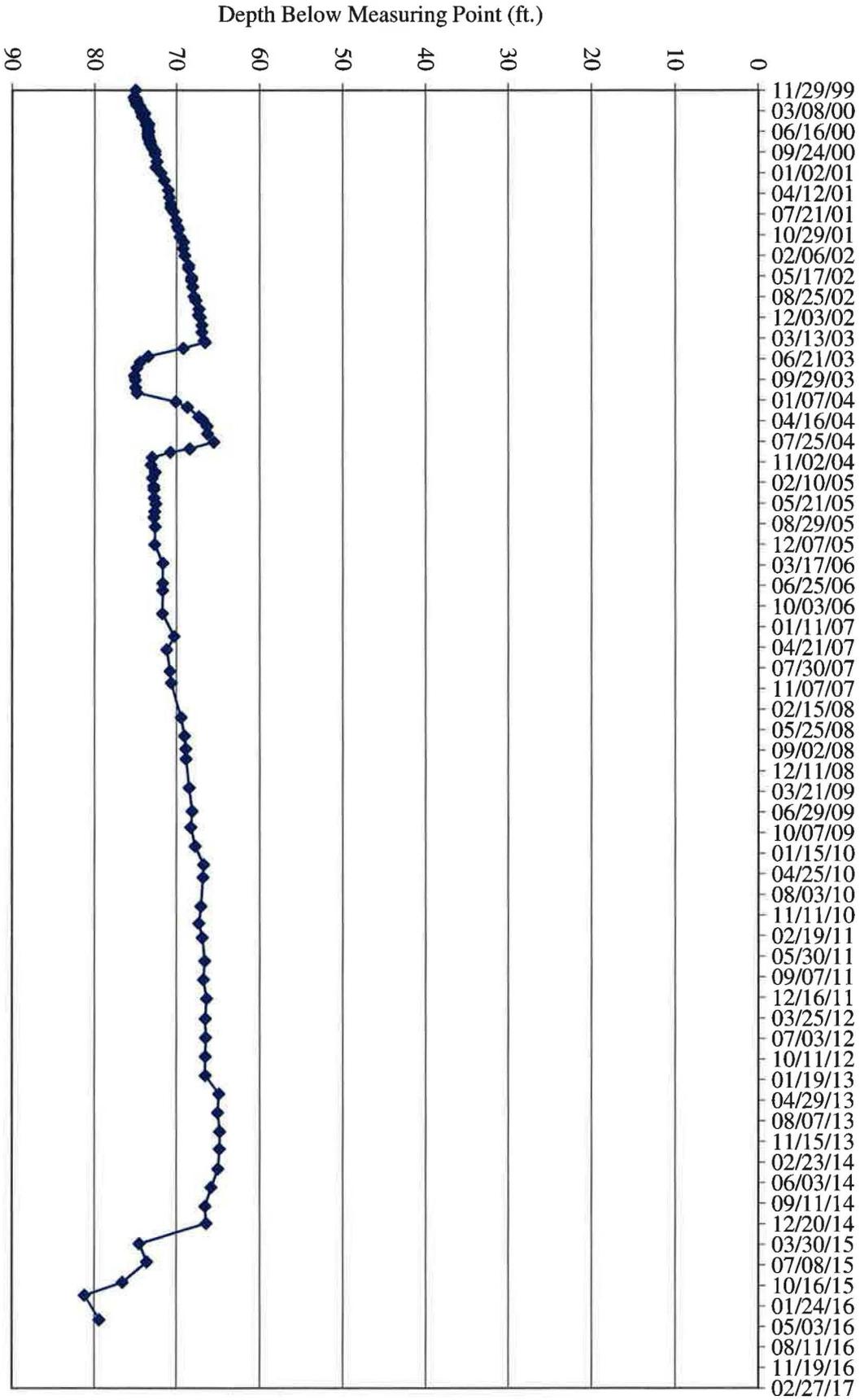
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-8**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,616.80	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	68.90	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	66.90	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	64.80	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,616.80	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	73.60	69.00	
5,544.84				09/30/15	76.56	71.96	
5,540.22				12/02/15	81.18	76.58	
5,542.00				03/30/16	79.40	74.80	

TW4-8 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-9**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,636.11	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**

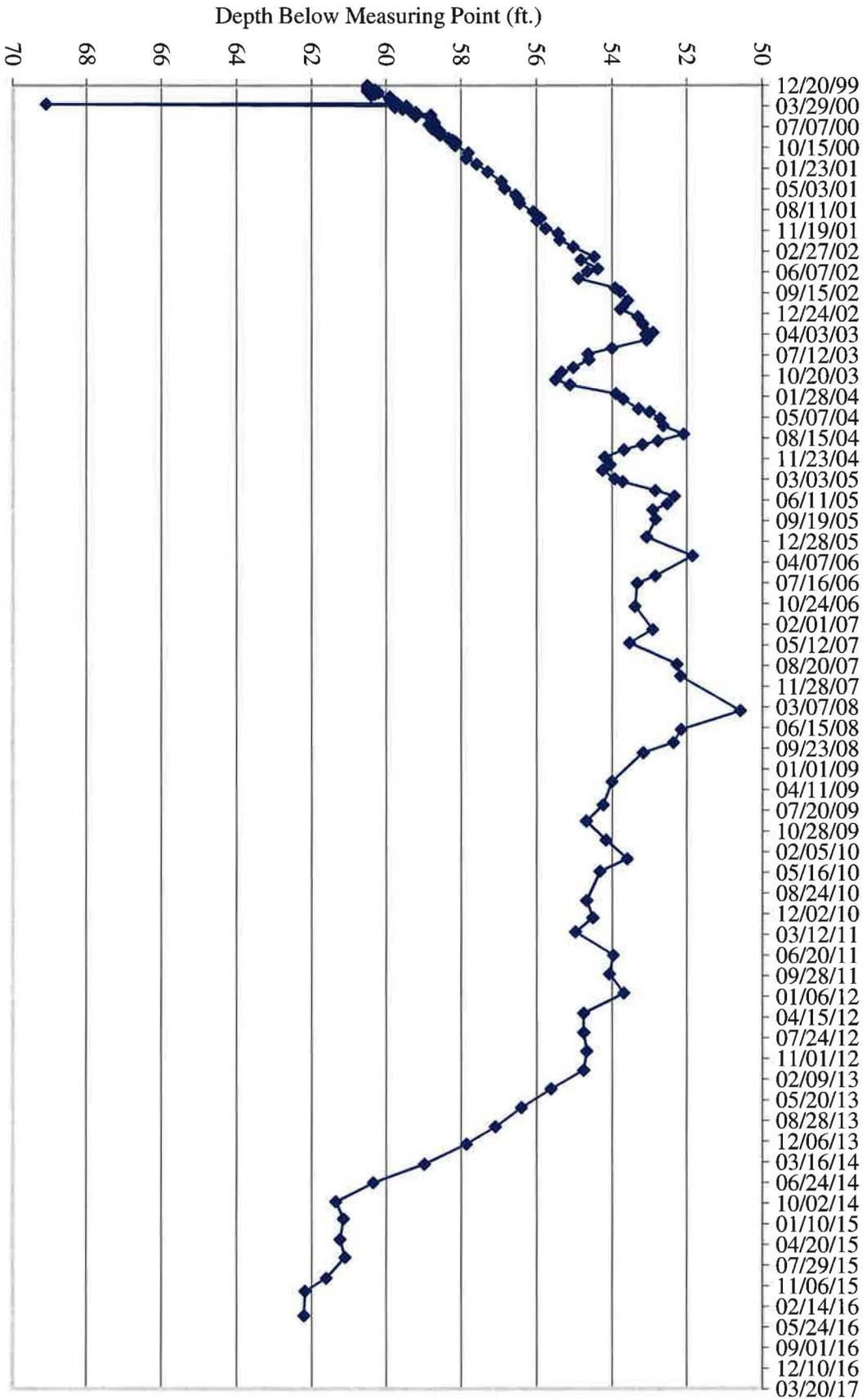
<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,636.11	5,637.59	1.48				121.33
5,581.04				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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,636.11	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,636.11	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	
5,575.41				12/02/15	62.18	60.70	
5,575.38				03/30/16	62.21	60.73	



**TW4-9 Water Depth Over Time (ft. blmp)**

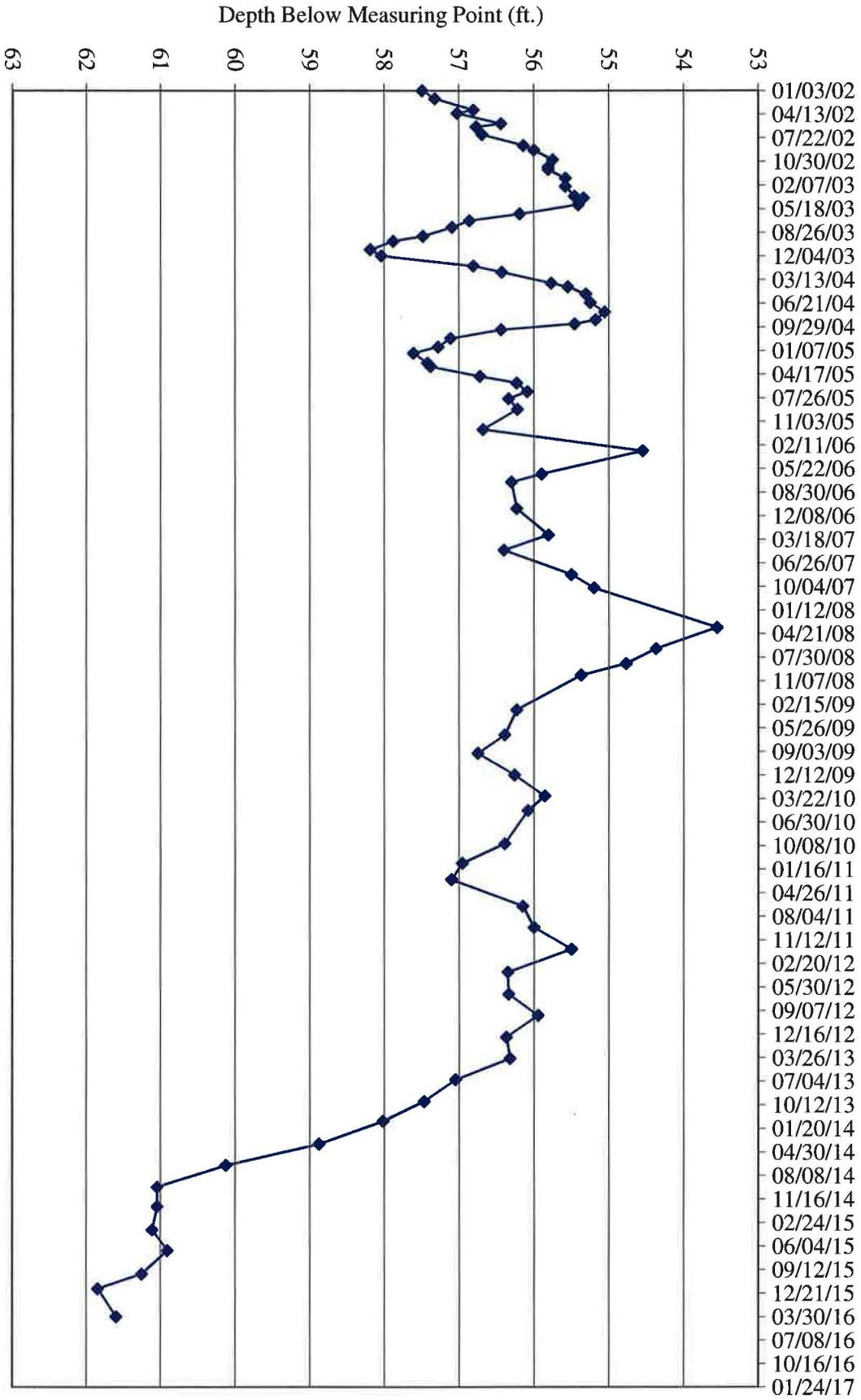
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-10**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,631.99	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 to Water (blw.LSD)	Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)		
	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	
5,578.43				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	57.10	54.85	
5,578.09				06/21/11	56.15	53.90	
5,578.24				09/20/11	56.00	53.75	
5,578.74				12/21/11	55.50	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	
5,572.39				12/02/15	61.85	59.60	
5,572.64				03/30/16	61.60	59.35	

TW4-10 Water Depth Over Time (ft. blmp)



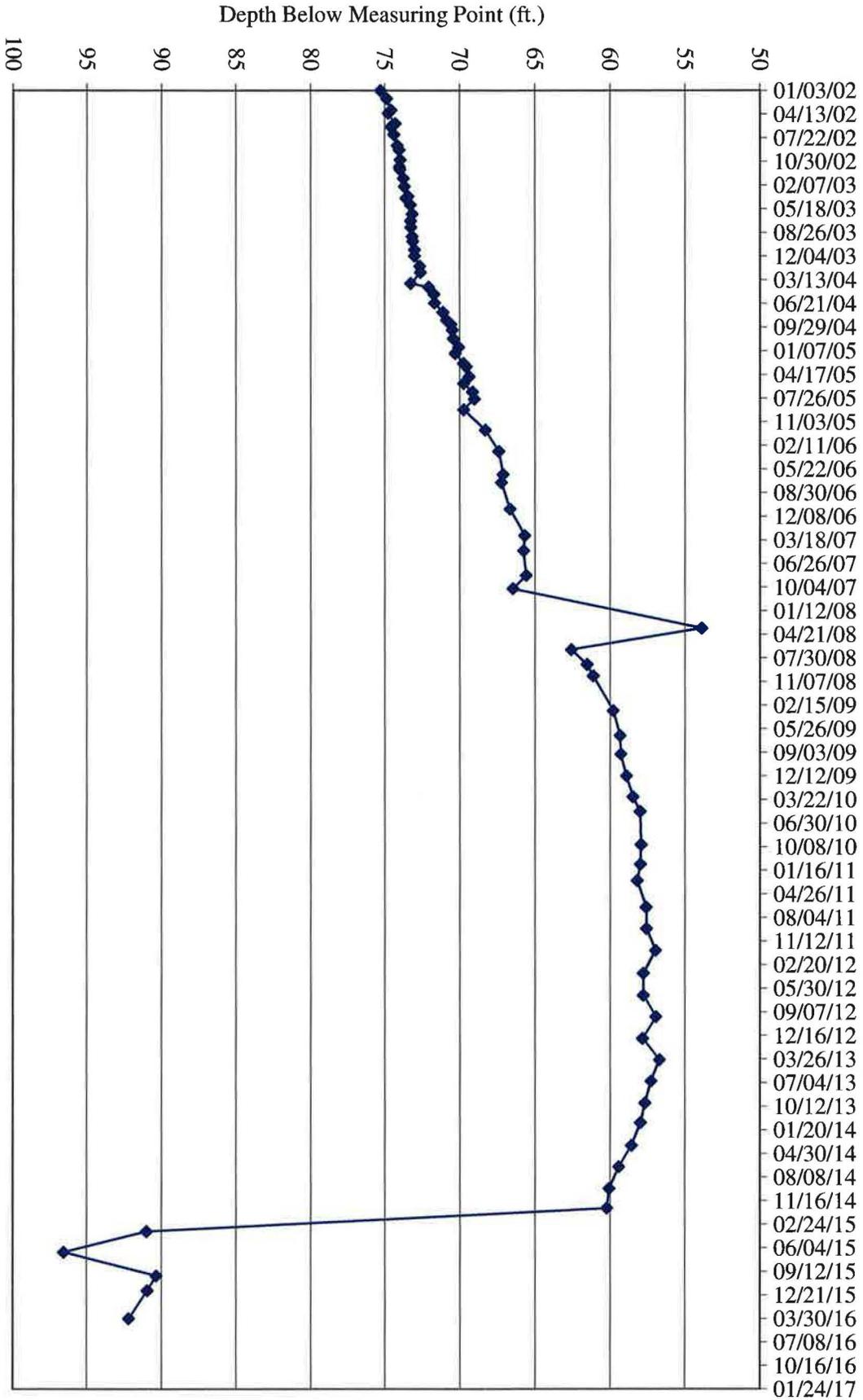
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-11**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,621.92	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,621.92	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	
5,532.67				12/02/15	90.95	89.25	
5,531.44				03/30/16	92.18	90.48	

TW4-11 Water Depth Over Time (ft. blmp)



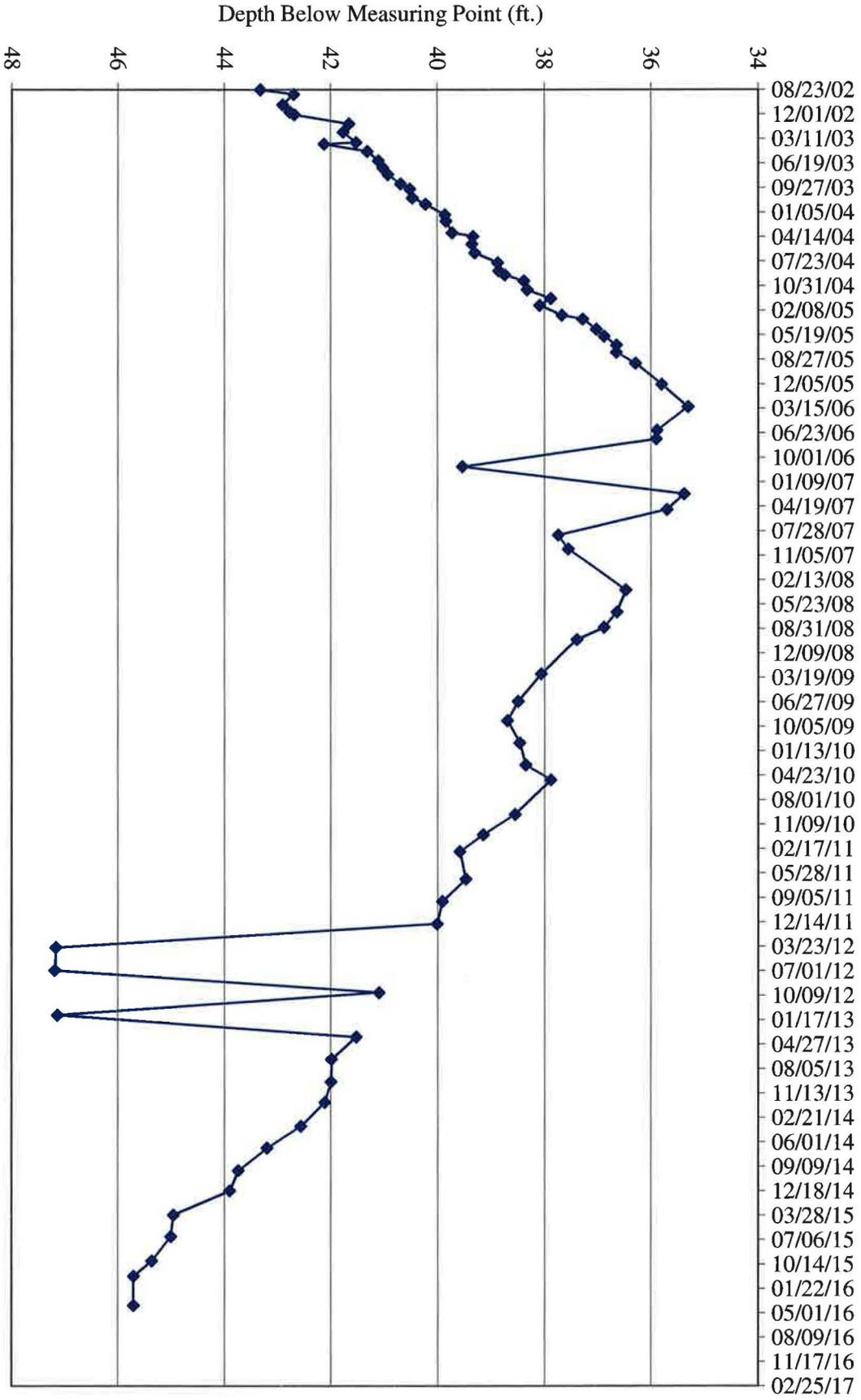
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-12**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,622.38	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,622.38	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	
5,578.53				12/02/15	45.70	43.85	
5,578.53				03/30/16	45.70	43.85	

TW4-12 Water Depth Over Time (ft. blmp)



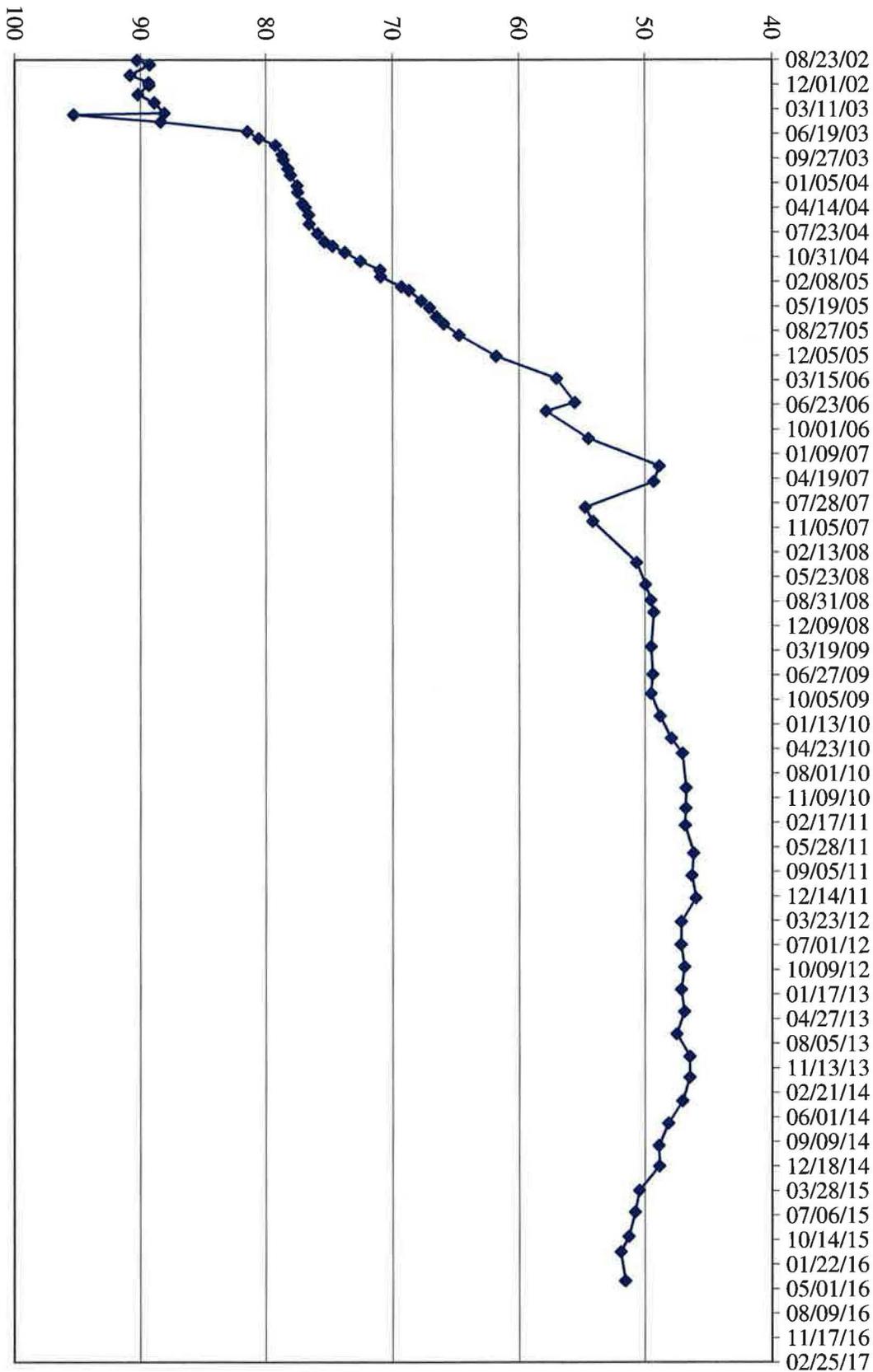
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-13**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,618.09	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,618.09	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	
5,568.02				12/02/15	51.92	50.07	
5,568.39				03/30/16	51.55	49.70	

Depth Below Measuring Point (ft.)



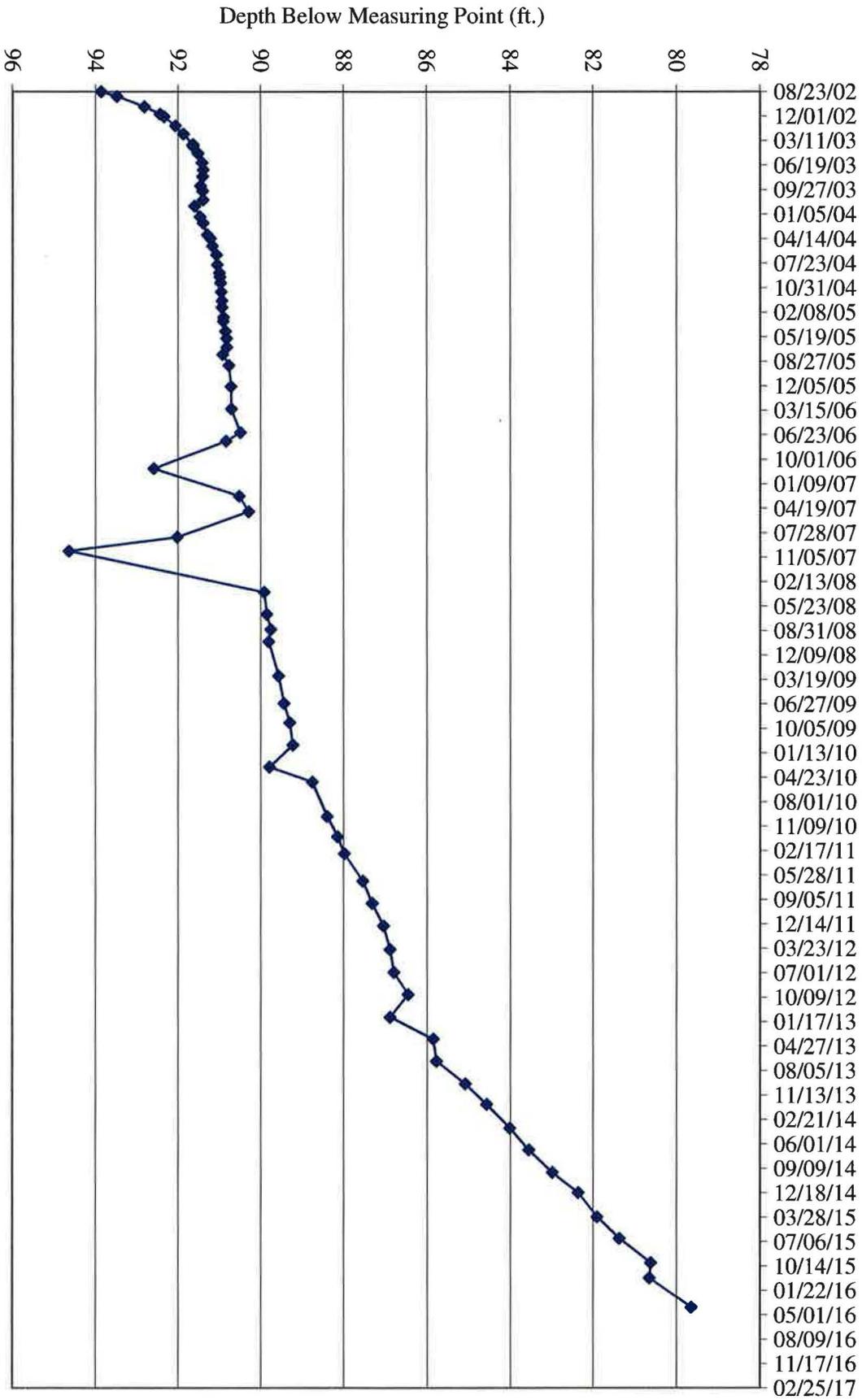
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-14**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,610.92	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,610.92	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	
5,532.12				12/02/15	80.65	78.80	
5,533.12				03/30/16	79.65	77.80	

TW4-14 Water Depth Over Time (ft. blmp)



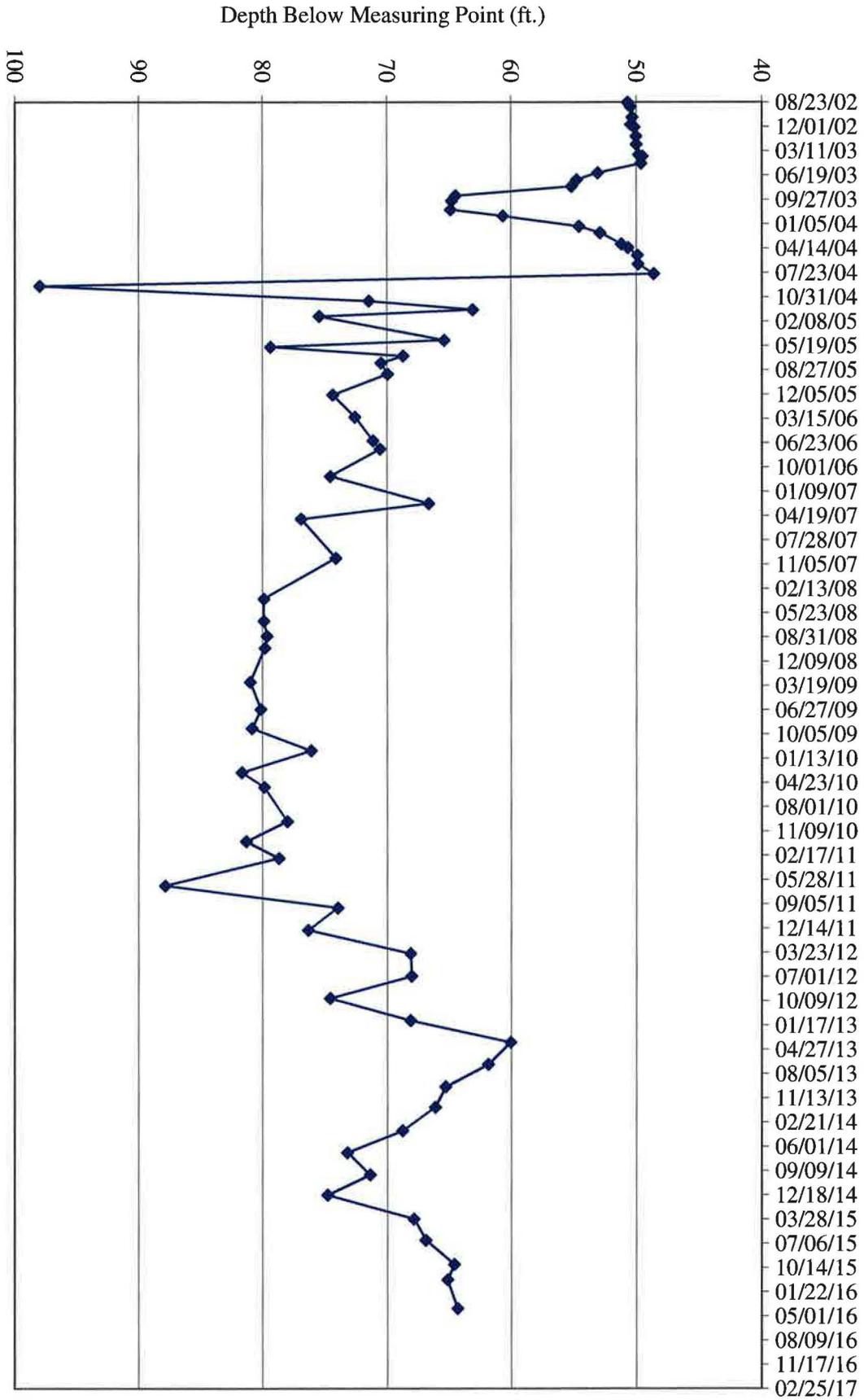
**Water Levels and Data over Time  
White Mesa Mill - Well MW-26**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,624.15	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	
5,558.77				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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,624.15	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	
5,560.25				12/02/15	65.20	63.90	
5,561.07				03/30/16	64.38	63.08	

MW-26 Water Depth Over Time (ft. blmp)



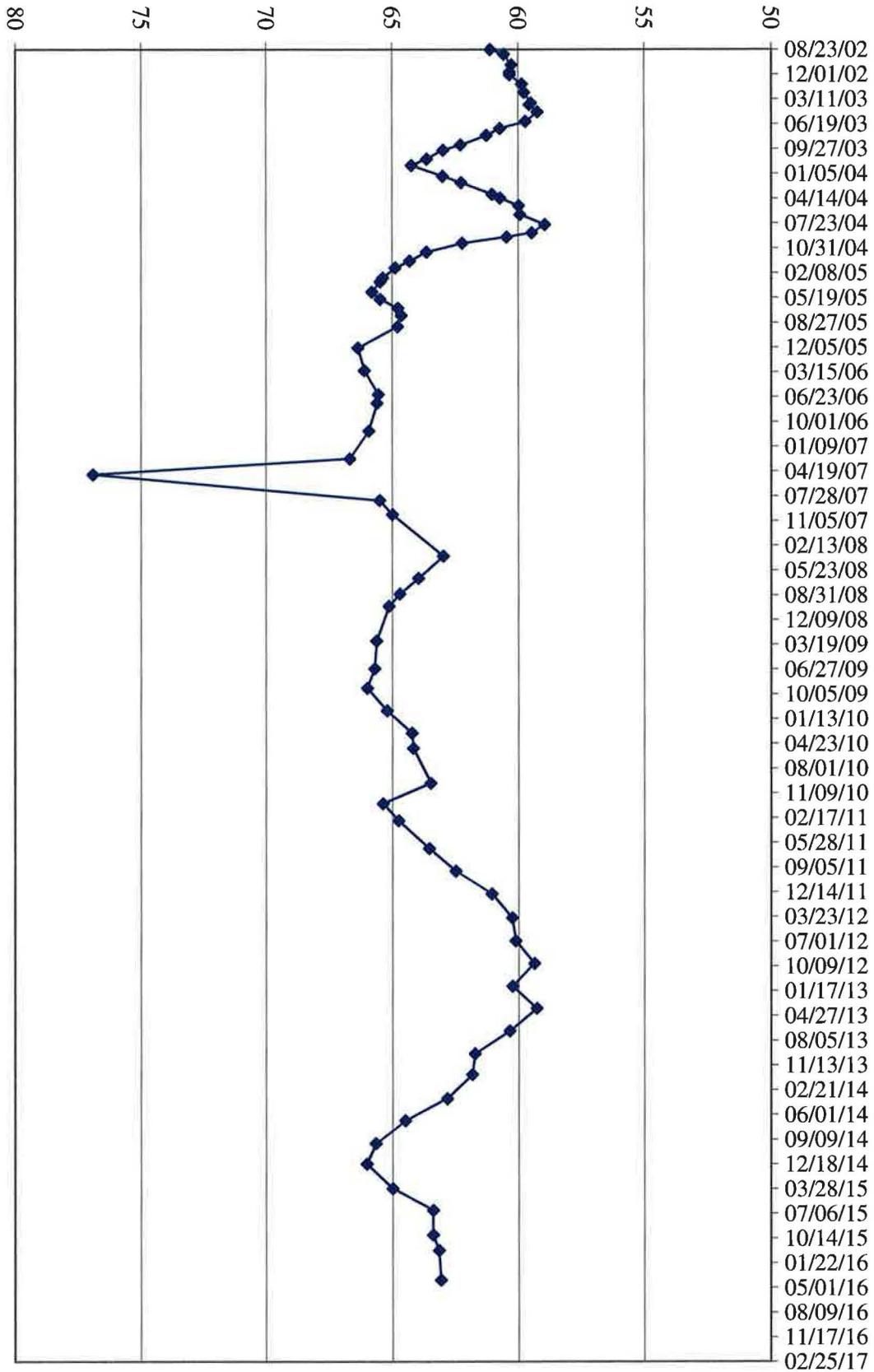
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-16**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,622.19	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,622.19	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	
5,560.85				12/02/15	63.17	61.34	
5,560.92				03/30/16	63.10	61.27	

Depth Below Measuring Point (ft.)



TW4-16 Water Depth Over Time (ft. blmp)

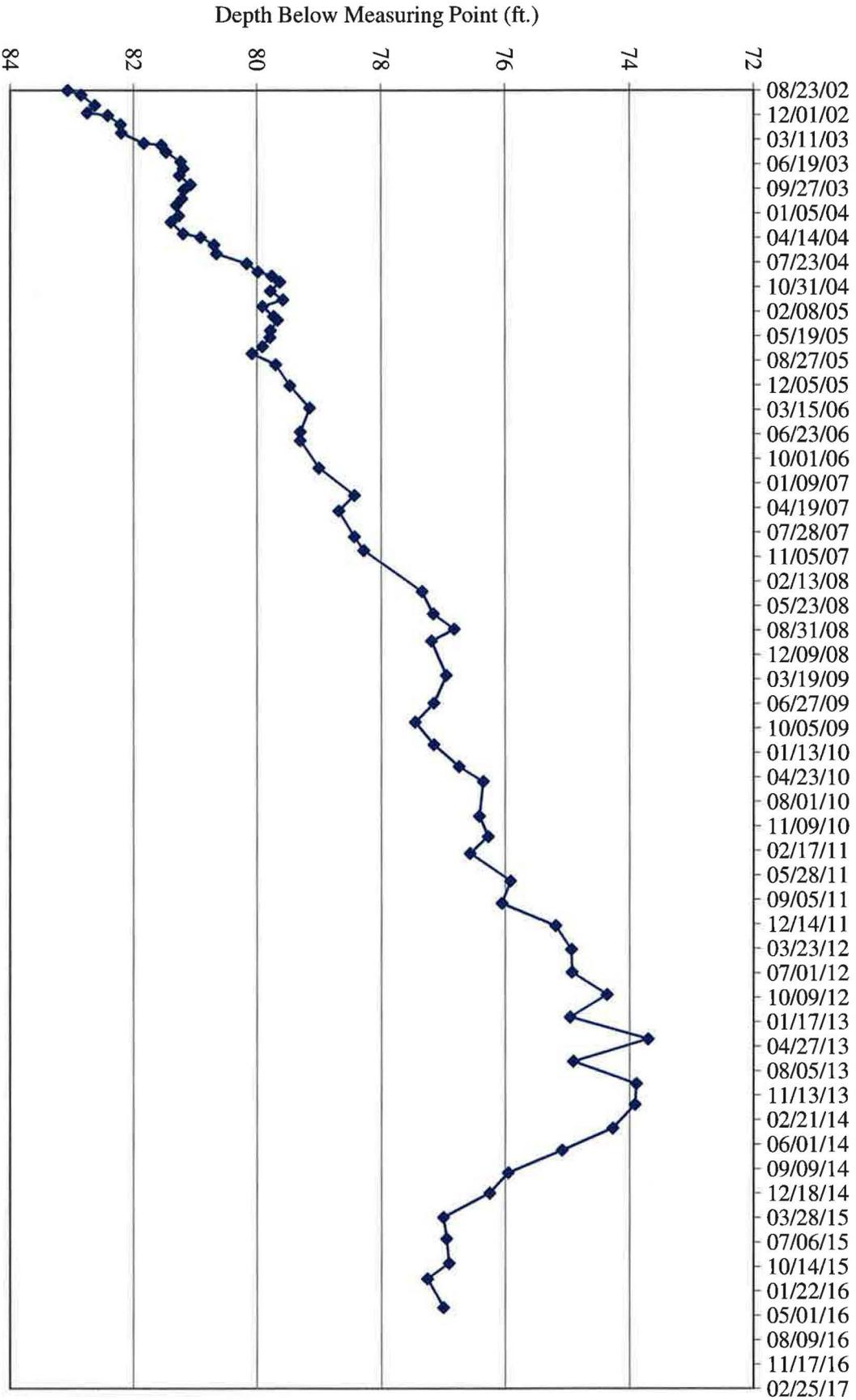
**Water Levels and Data over Time  
White Mesa Mill - Well MW-32**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.41	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,623.41	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	
5,547.98				12/02/15	77.26	75.43	
5,548.24				03/30/16	77.00	75.17	

**MW-32 Water Depth Over Time (ft. blmp)**



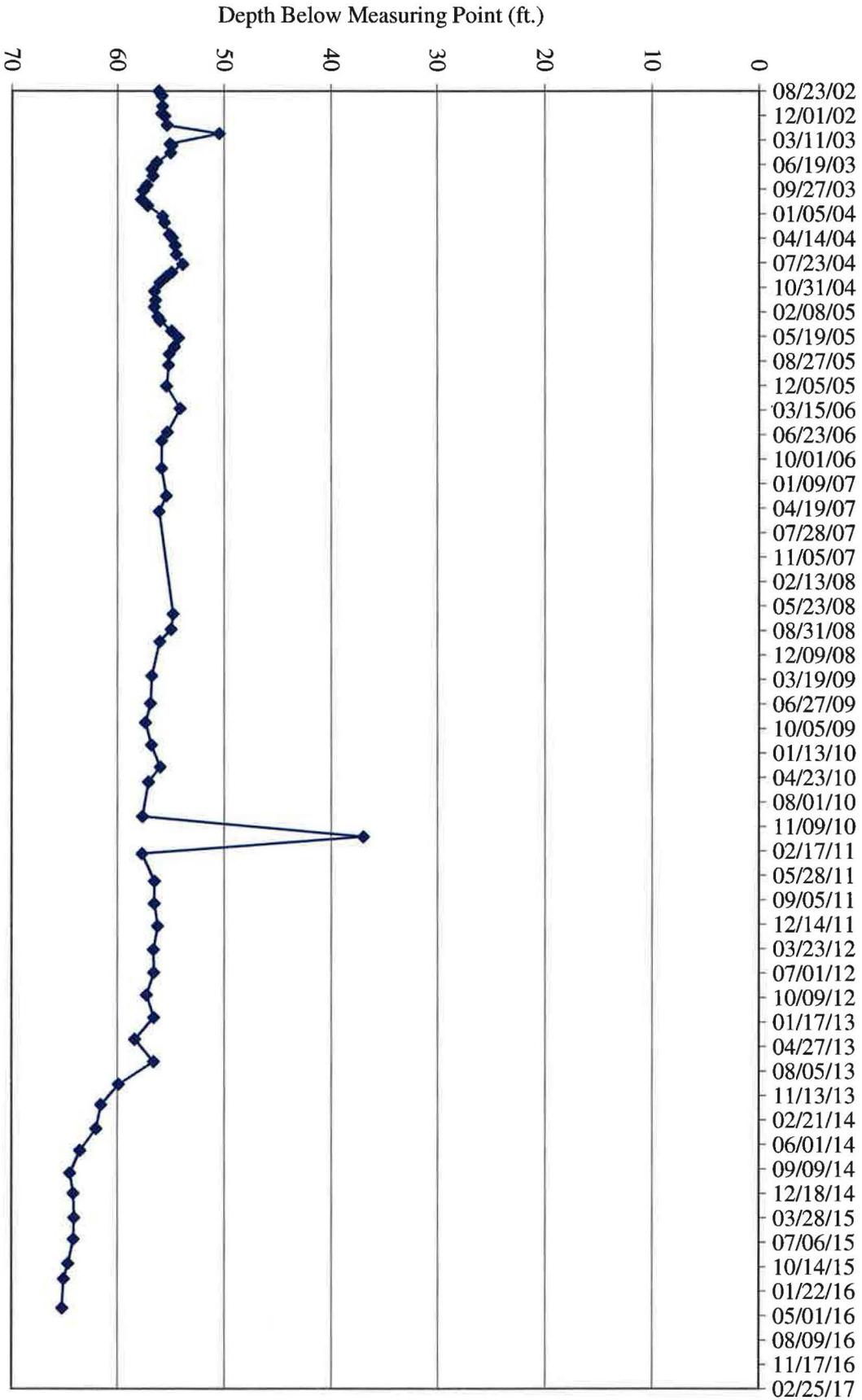
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-18**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,639.13	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,639.13	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	
5,576.20				12/02/15	65.08	62.93	
5,576.05				03/30/16	65.23	63.08	

TW4-18 Water Depth Over Time (ft. blmp)



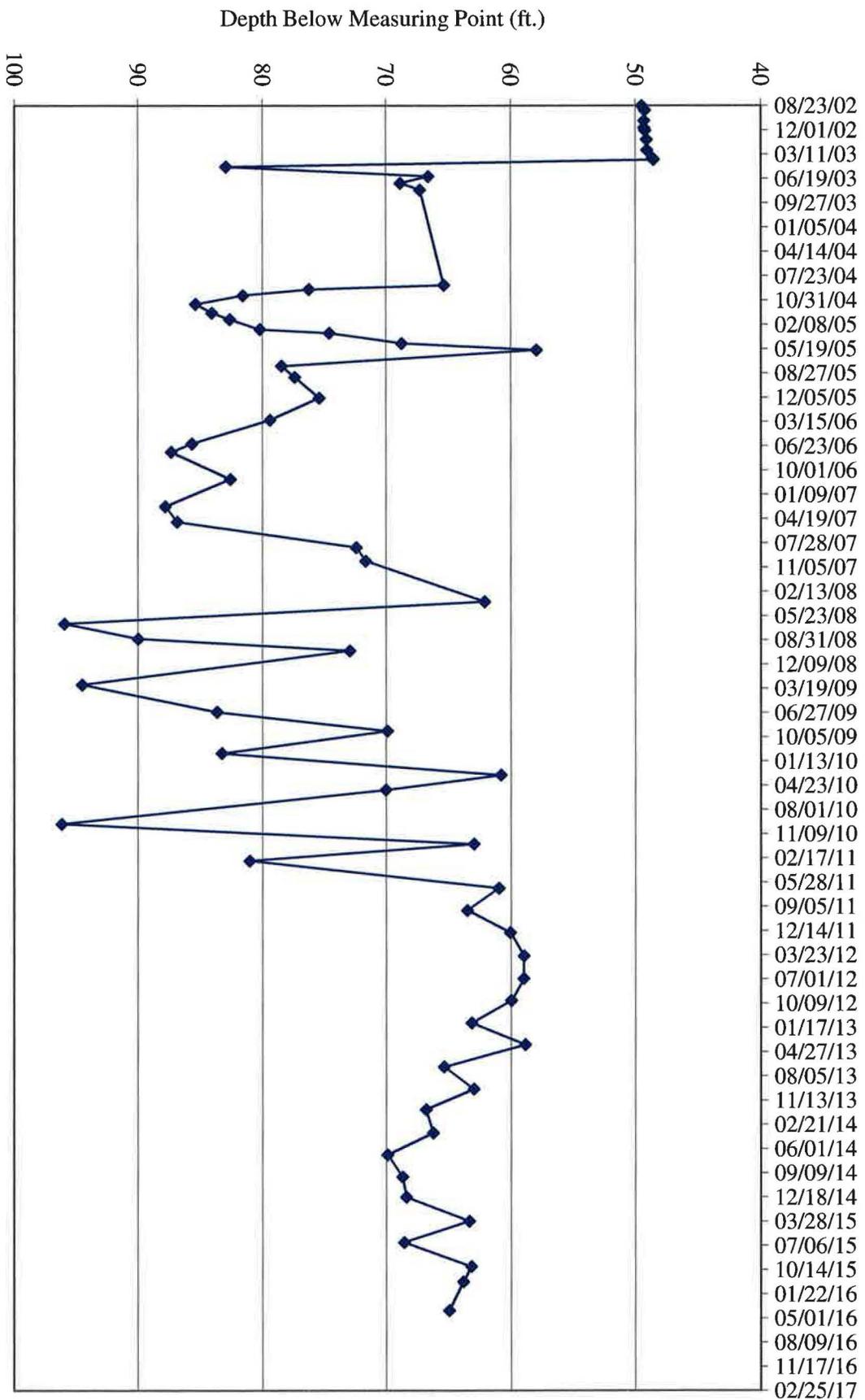
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-19**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,629.53	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,629.53	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	
5,567.51				12/02/15	63.88	62.02	
5,566.38				03/30/16	65.01	63.15	

TW4-19 Water Depth Over Time (ft. blmp)



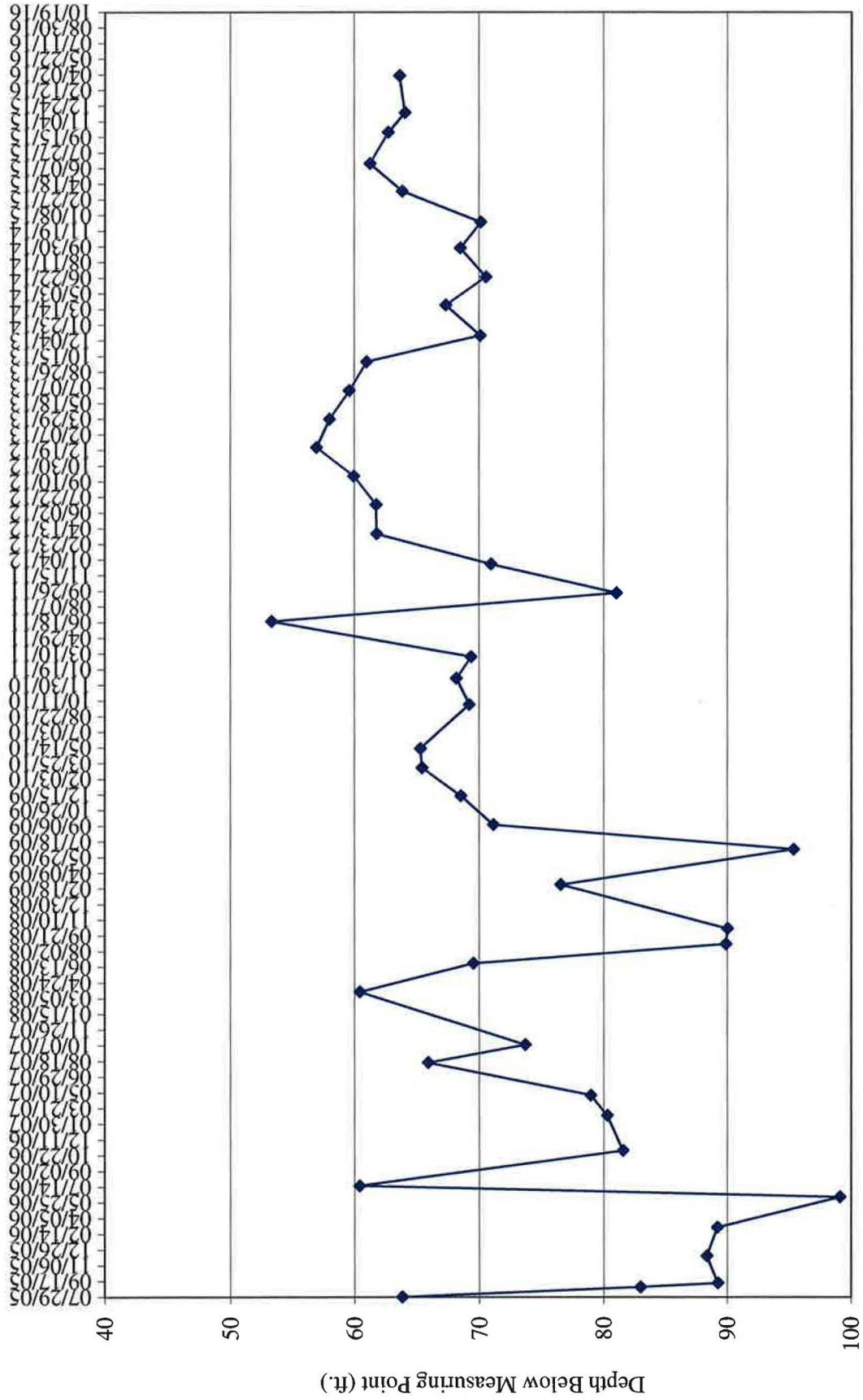
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-20**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,628.52	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,628.52	5,629.53	1.01				106.0
5,566.78				09/30/15	62.75	61.74	
5,565.43				12/02/15	64.10	63.09	
5,565.87				03/30/16	63.66	62.65	

### TW4-20 Water Depth Over Time (ft. blmp)



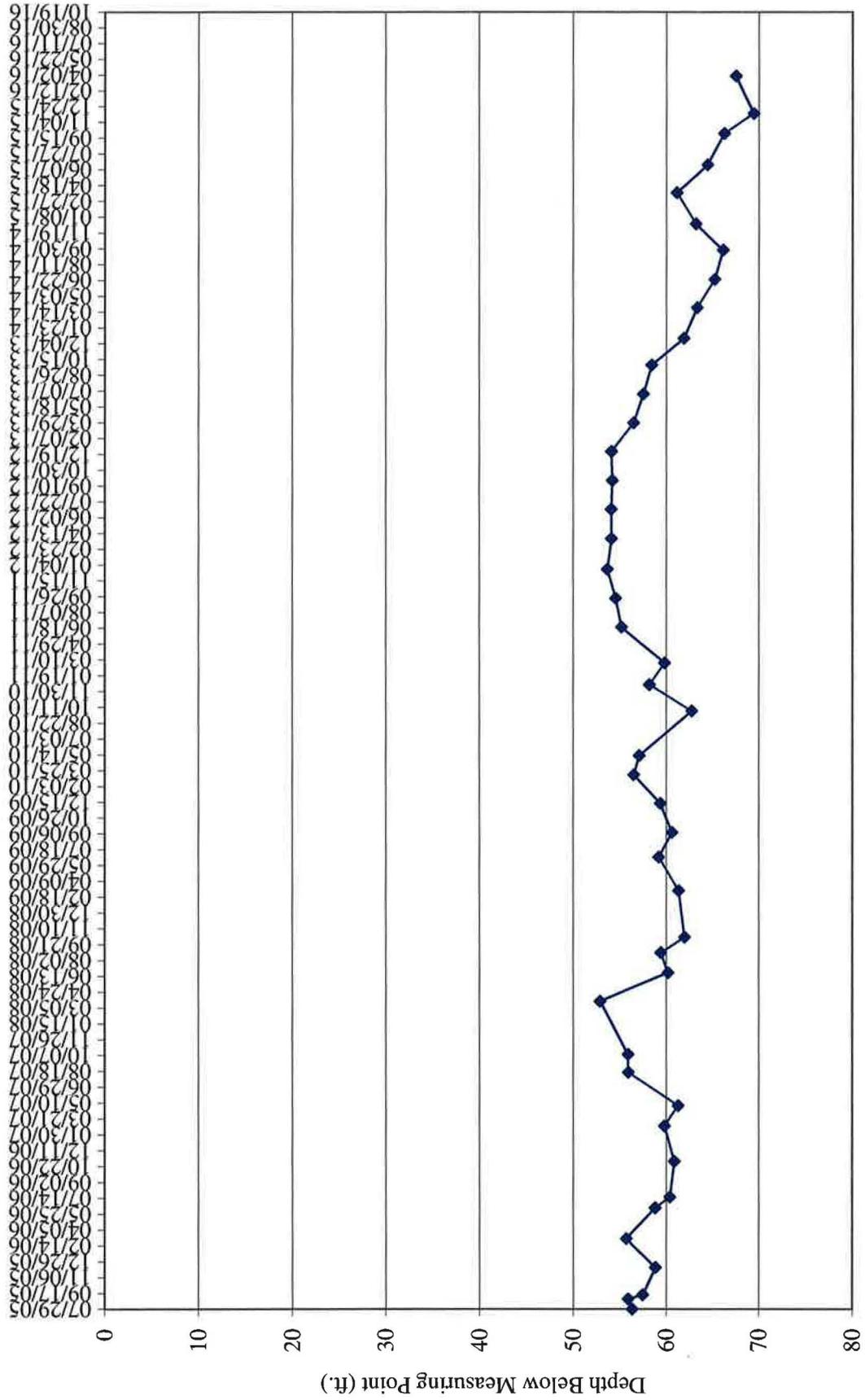
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-21**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.20	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,638.20	5,639.35	1.15				120.92
5,573.05				09/30/15	66.30	65.15	
5,569.88				12/02/15	69.47	68.32	
5,571.81				03/30/16	67.54	66.39	

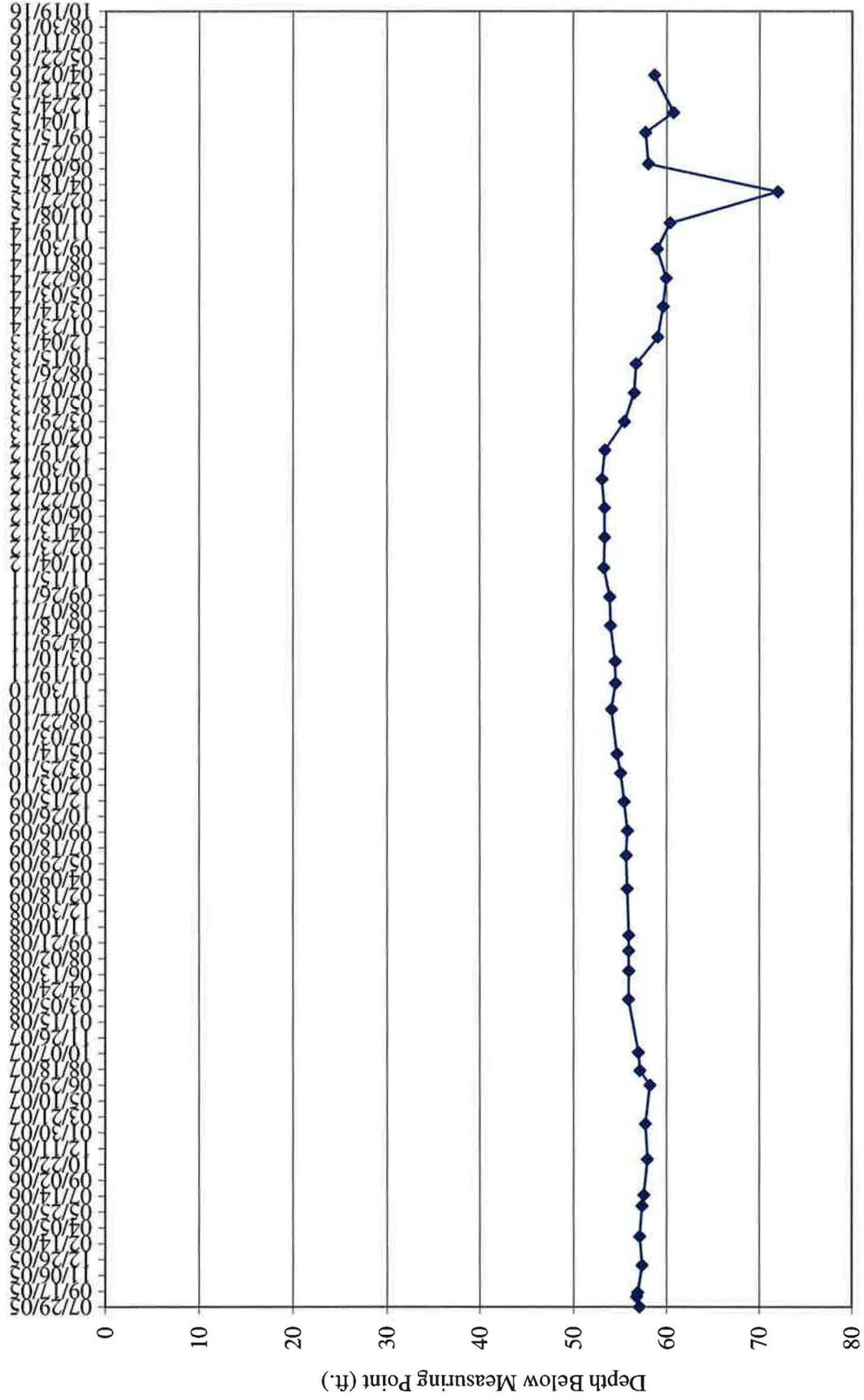
### TW4-21 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-22**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,627.83	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	
5,571.24				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	

### TW4-22 Water Depth Over Time (ft. blmp)



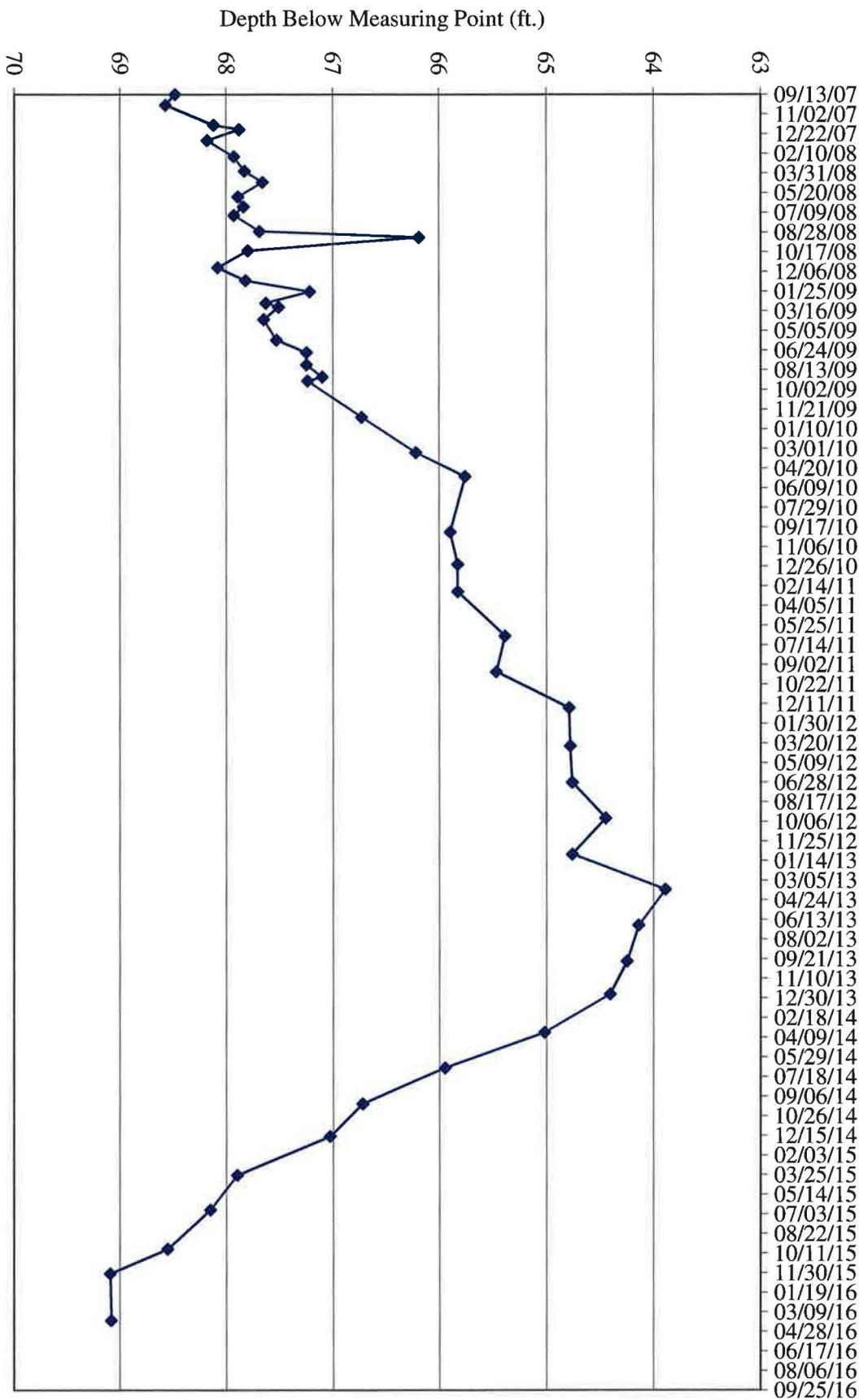
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-23**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,605.77	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,605.77	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	
5,538.28				12/02/15	69.09	67.49	
5,538.29				03/30/16	69.08	67.48	

TW4-23 Water Depth Over Time (ft. blmp)



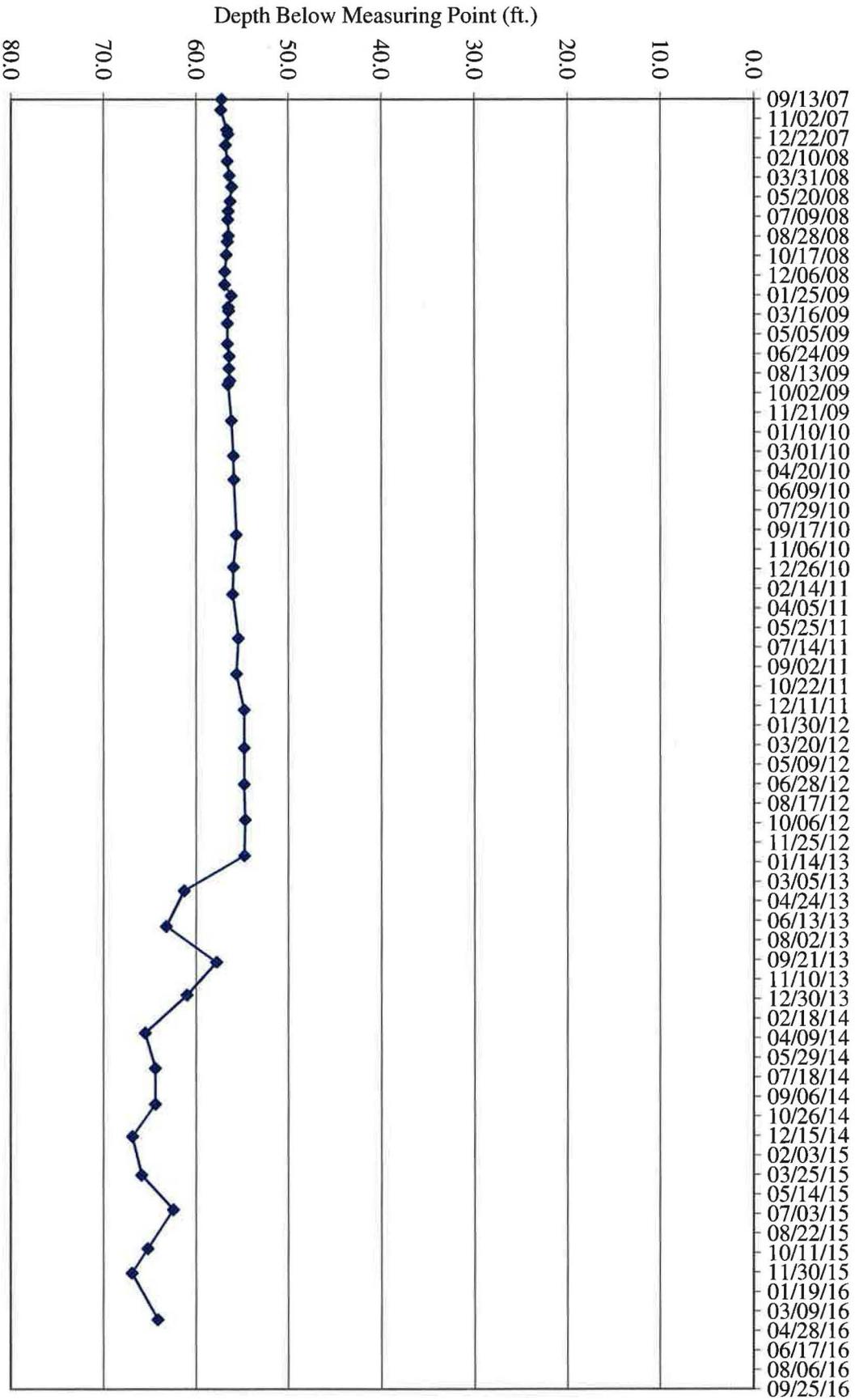
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-24**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or Measured		Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		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	
5,571.52				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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,625.70	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	
5,560.91				12/02/15	66.92	64.79	
5,563.69				03/30/16	64.14	62.01	

TW4-24 Water Depth Over Time (ft. blmp)



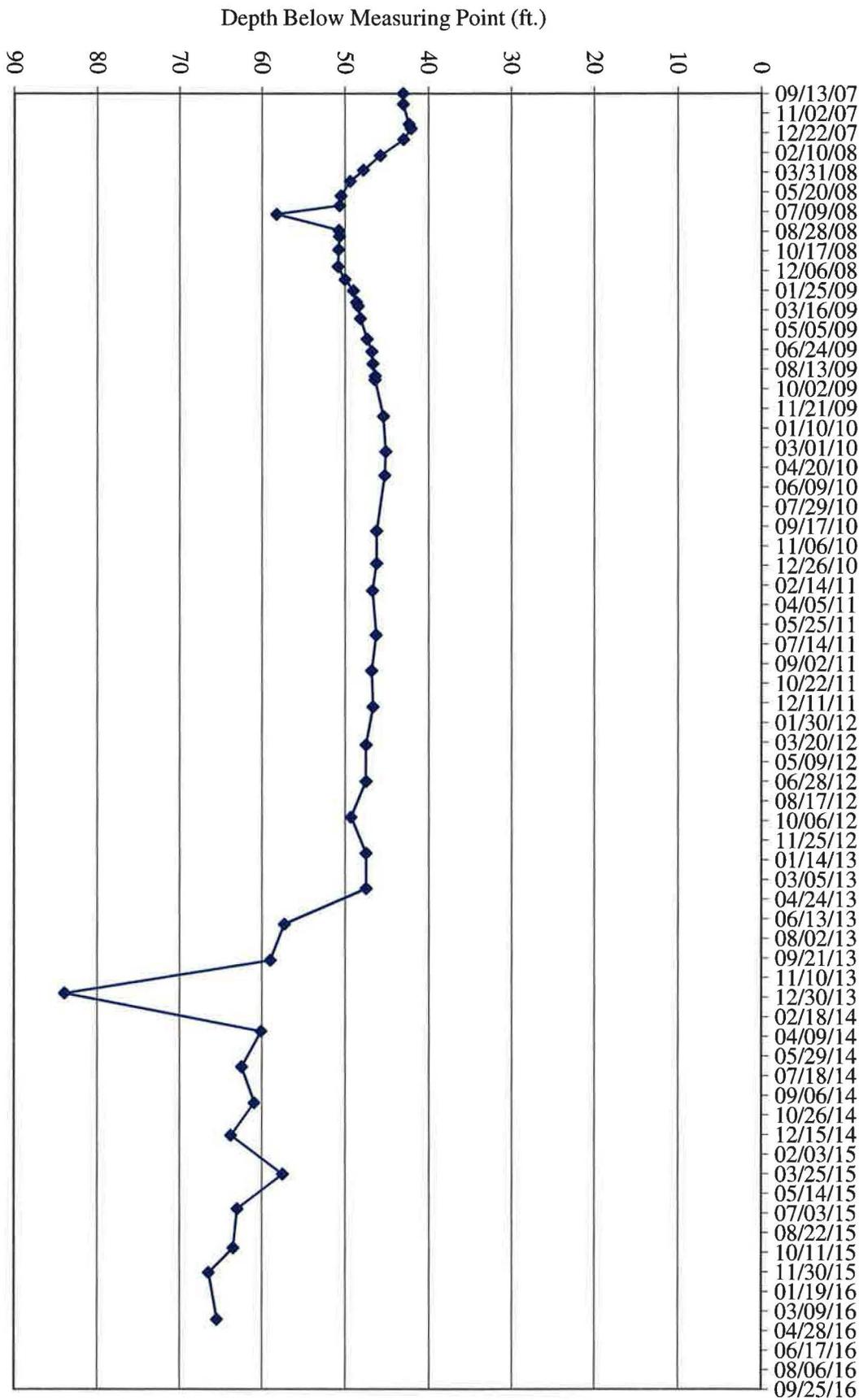
**Water Levels and Data over Time  
White Mesa Mill - Well TW4-25**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,627.83	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,627.83	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	
5,578.42				12/02/15	66.49	49.41	
5,579.42				03/30/16	65.49	48.41	

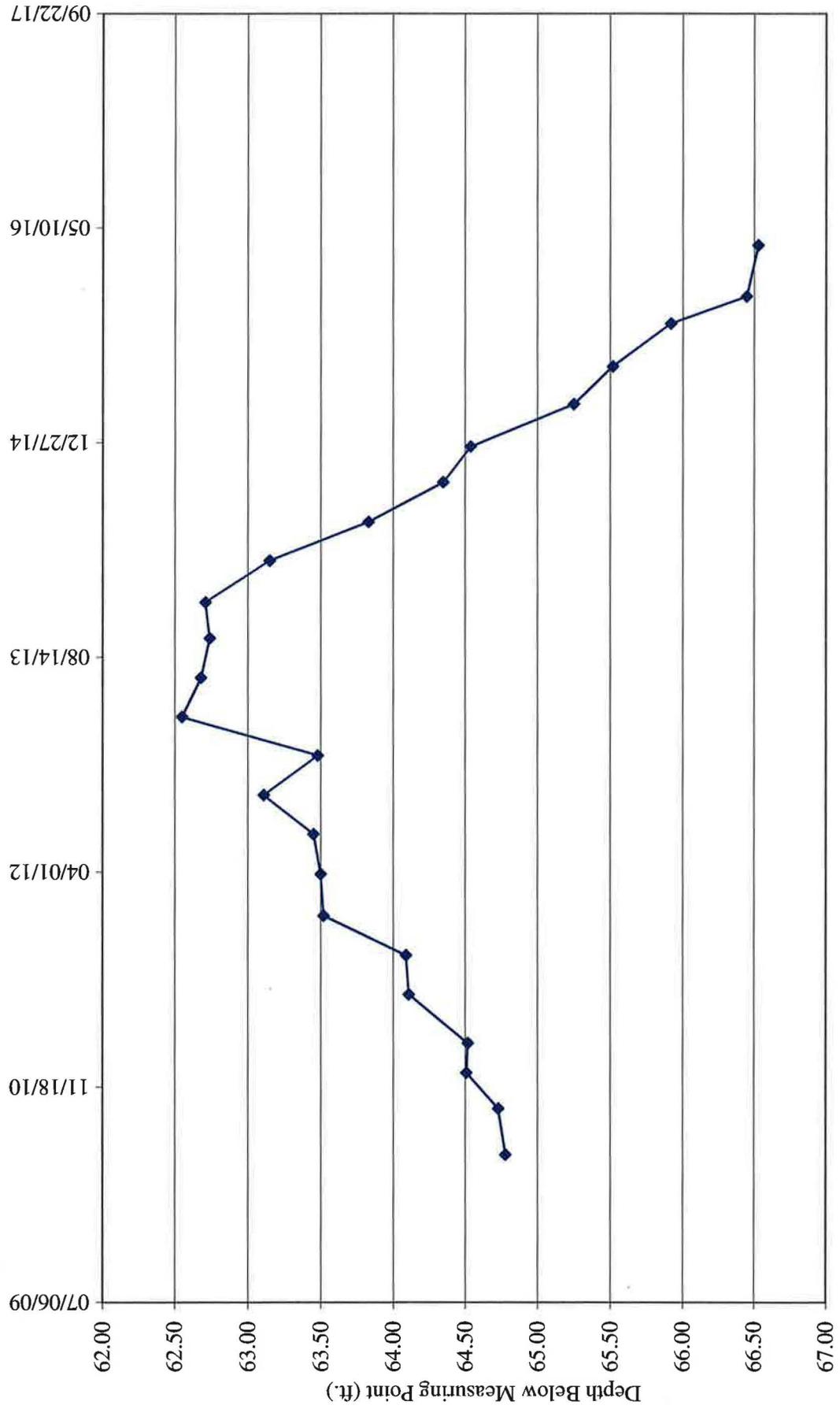
TW4-25 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-26**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,599.98	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	
5538.23				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	
5,535.23				12/02/15	66.45	64.75	
5,535.15				03/30/16	66.53	64.83	

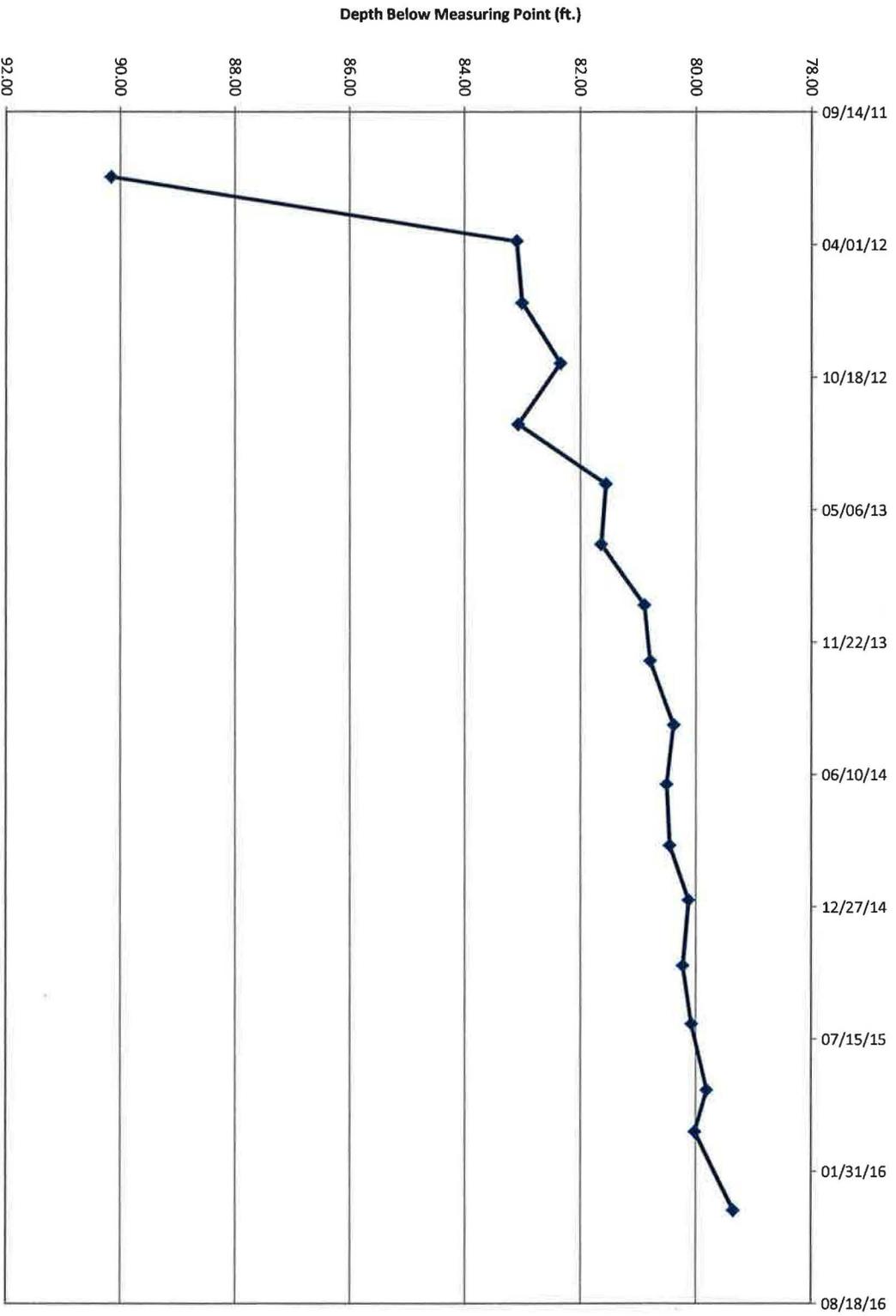
TW4-26 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-27**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,606.19	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	
5,527.92				12/02/15	80.02	78.27	
5,528.59				03/30/16	79.35	77.60	

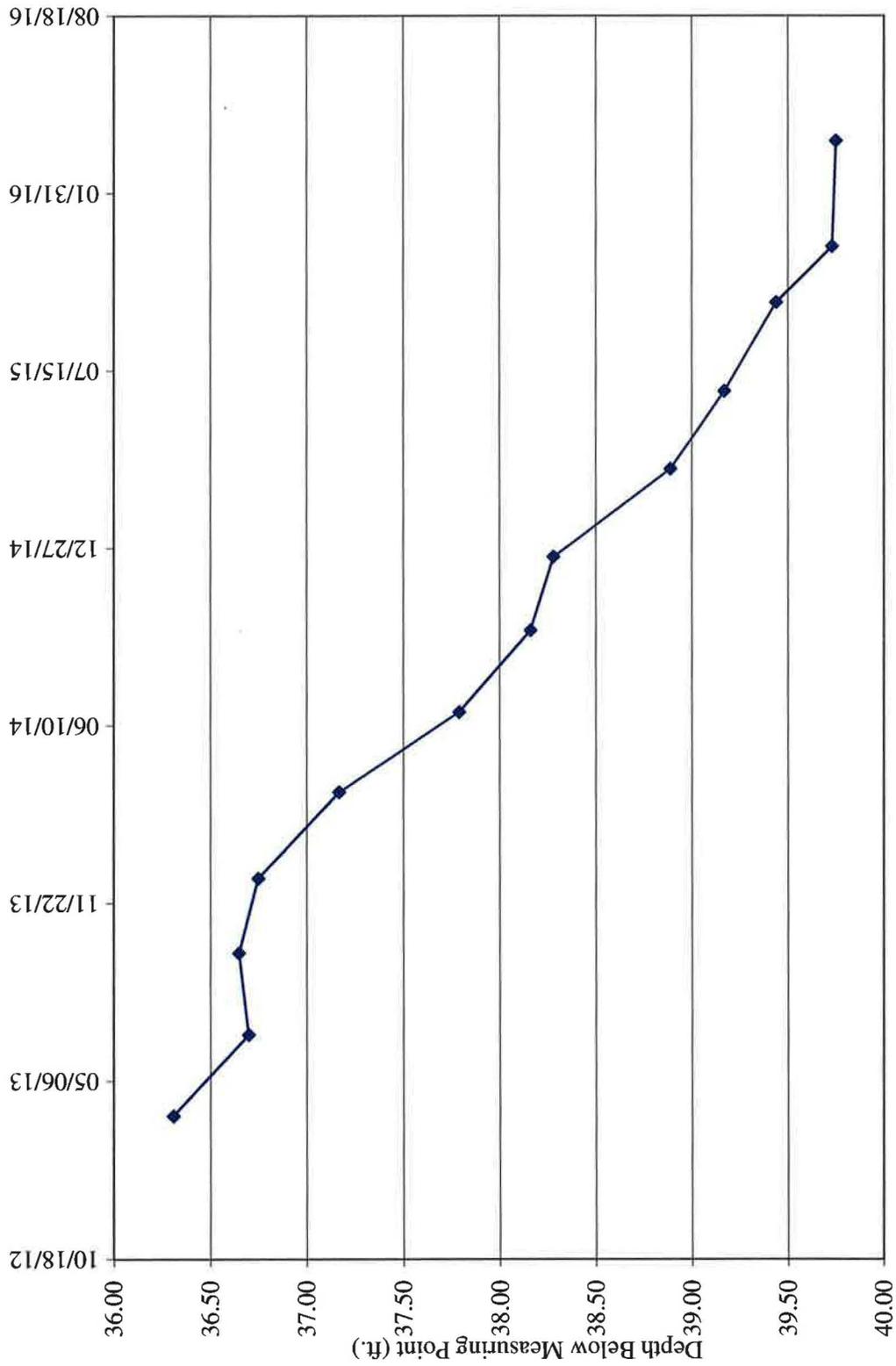
# TW4-27 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-28**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,613.52	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	
5,577.27				12/02/15	39.73	36.25	
5,577.25				03/30/16	39.75	36.27	

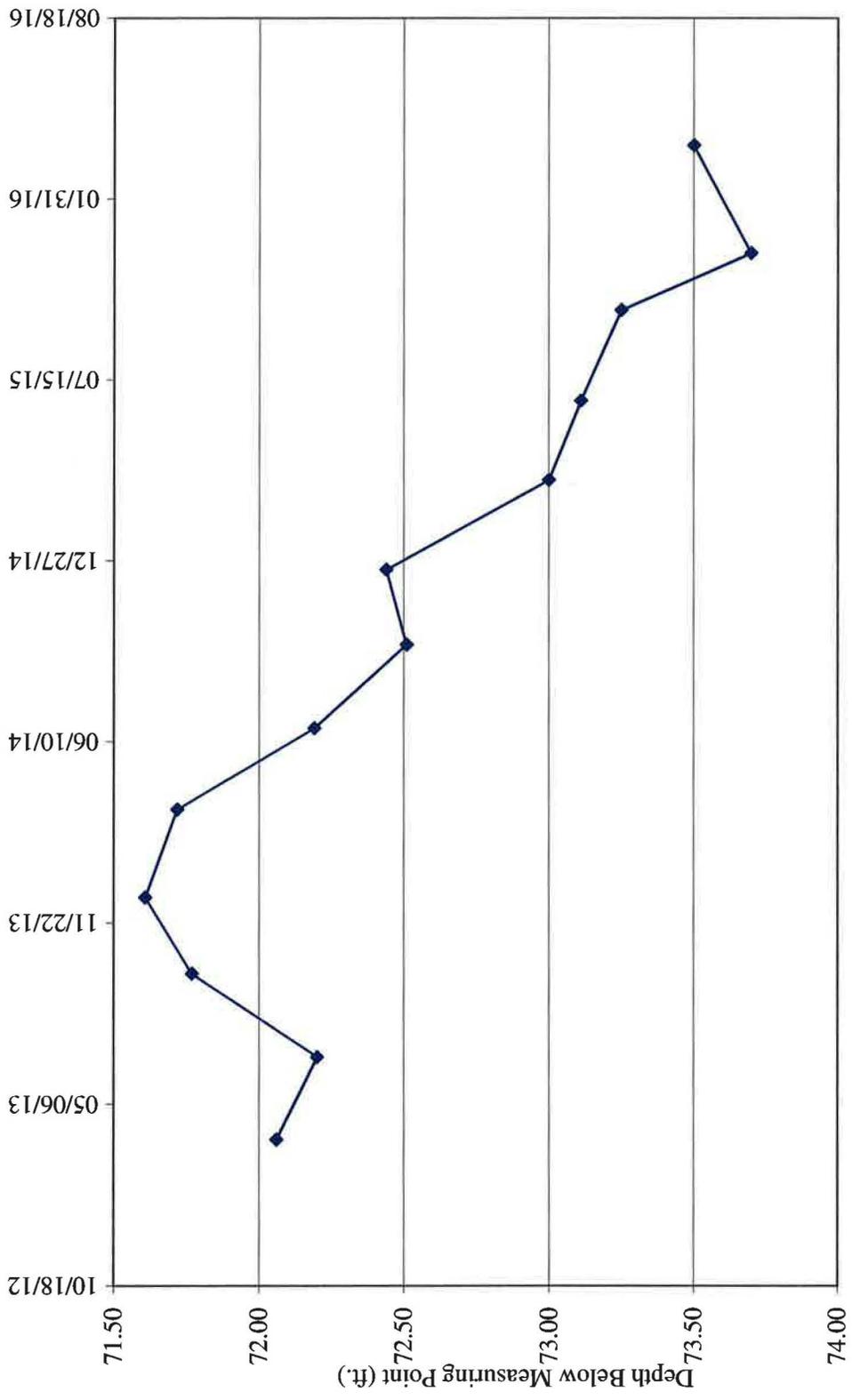
TW4-28 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-29**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,602.56	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	
5,532.34				12/02/15	73.70	70.22	
5,532.54				03/30/16	73.50	70.02	

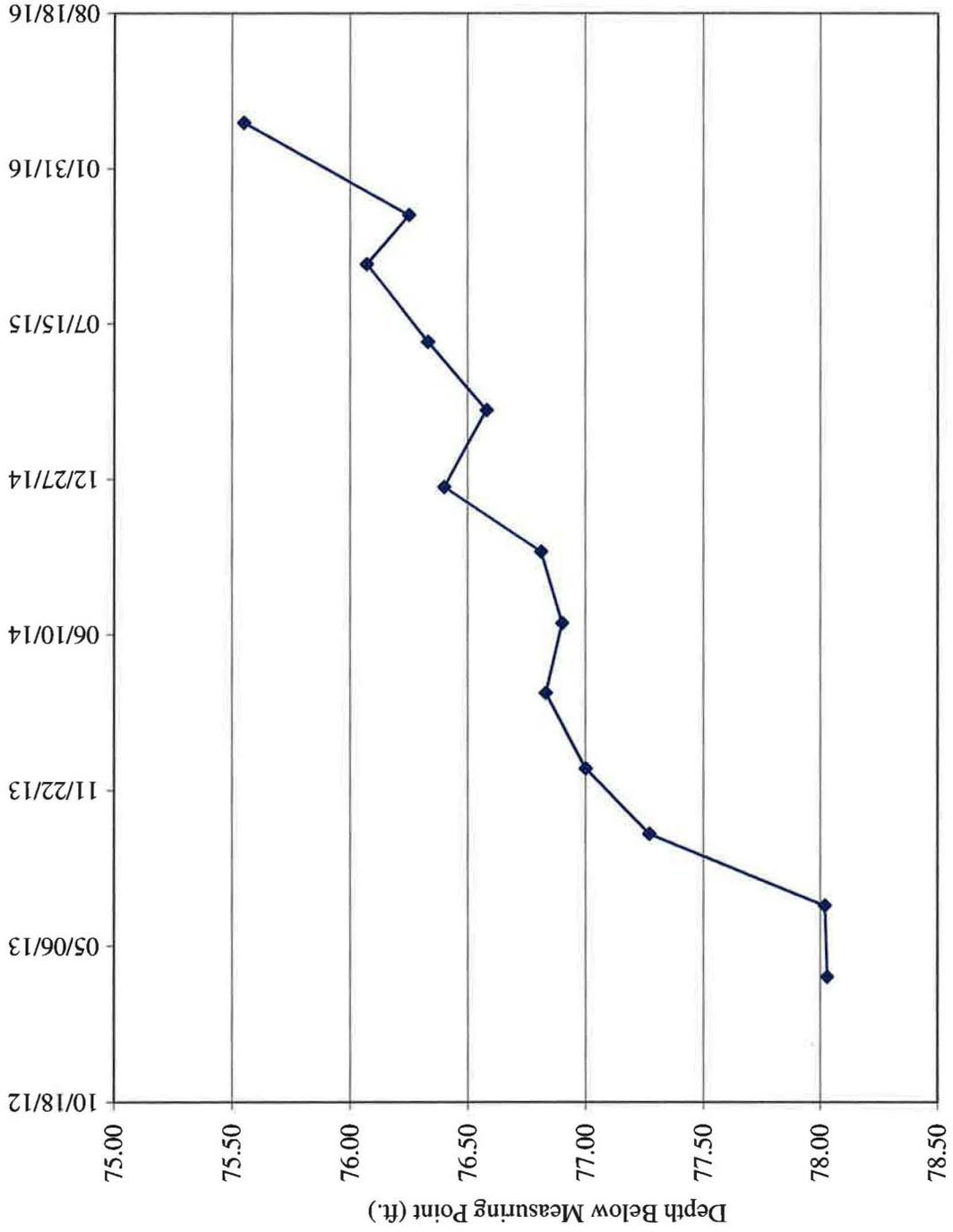
TW4-29 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-30**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measurin g Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,599.33	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	
5,526.56				12/02/15	76.25	72.77	
5,527.26				03/30/16	75.55	72.07	

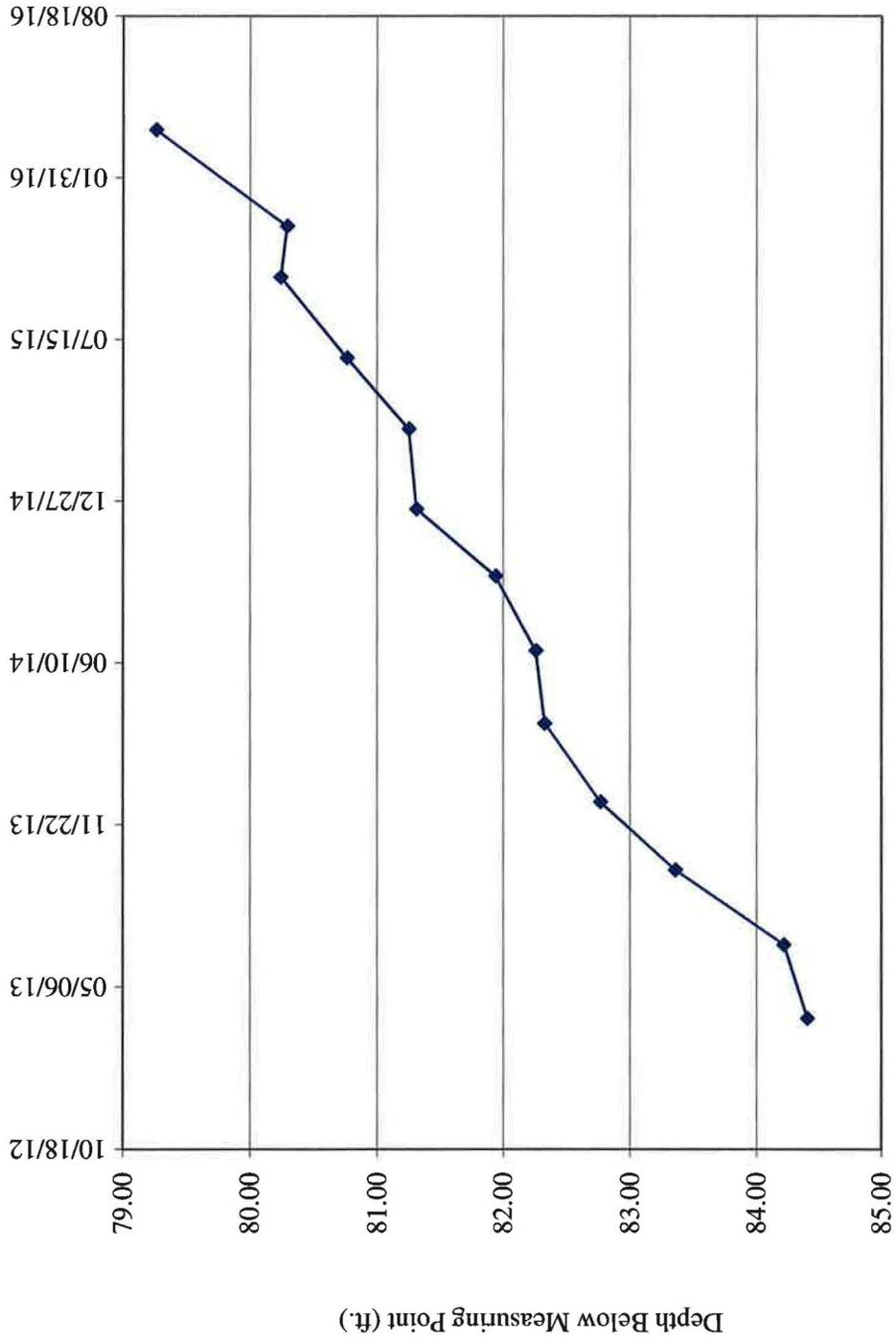
TW4-30 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-31**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,601.10	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	
5,524.29				12/02/15	80.29	76.81	
5,525.32				03/30/16	79.26	75.78	

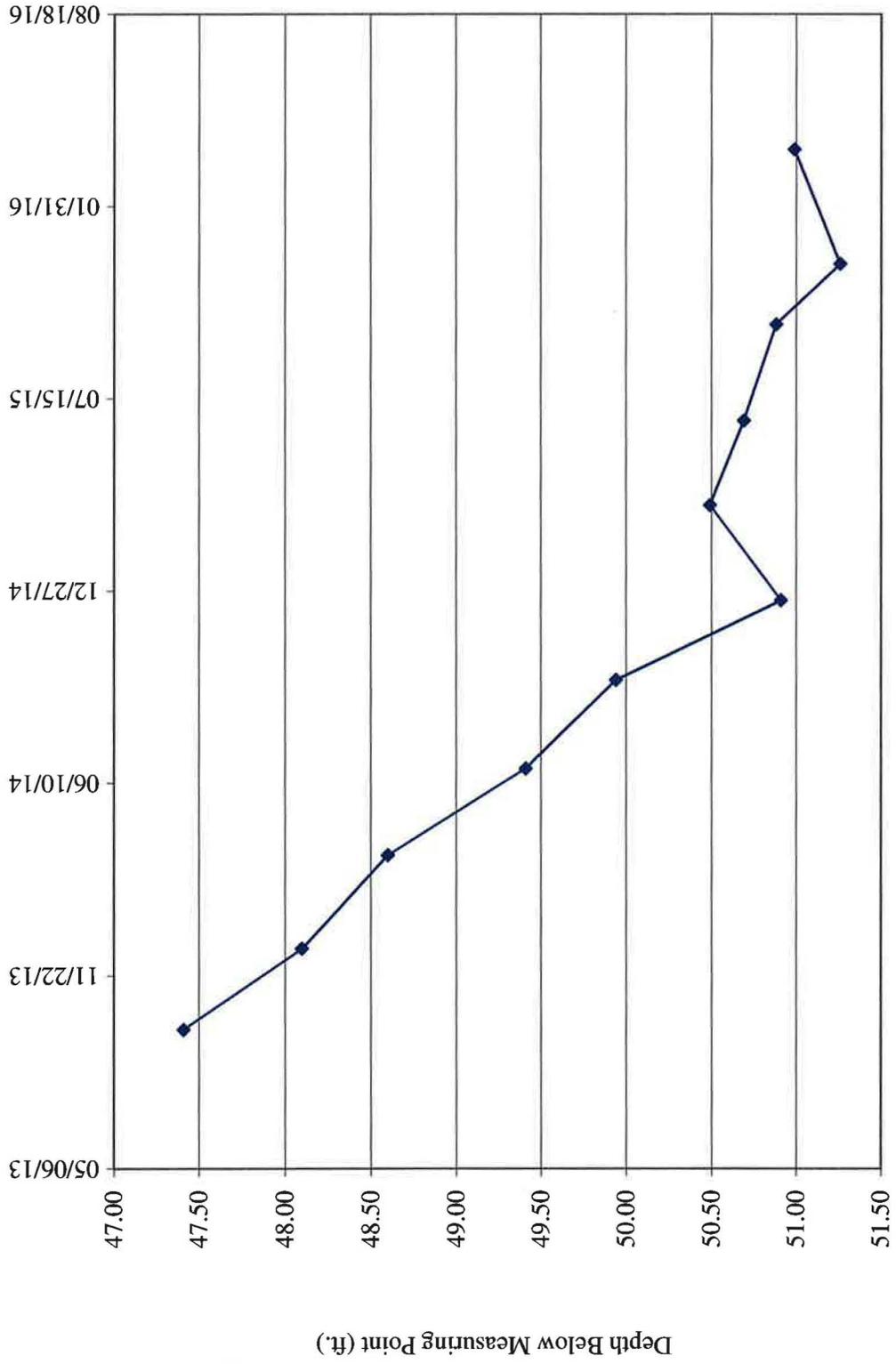
TW4-31 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-32**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,610.20	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	
5,560.58				12/02/15	51.26	49.62	
5,560.85				03/30/16	50.99	49.35	

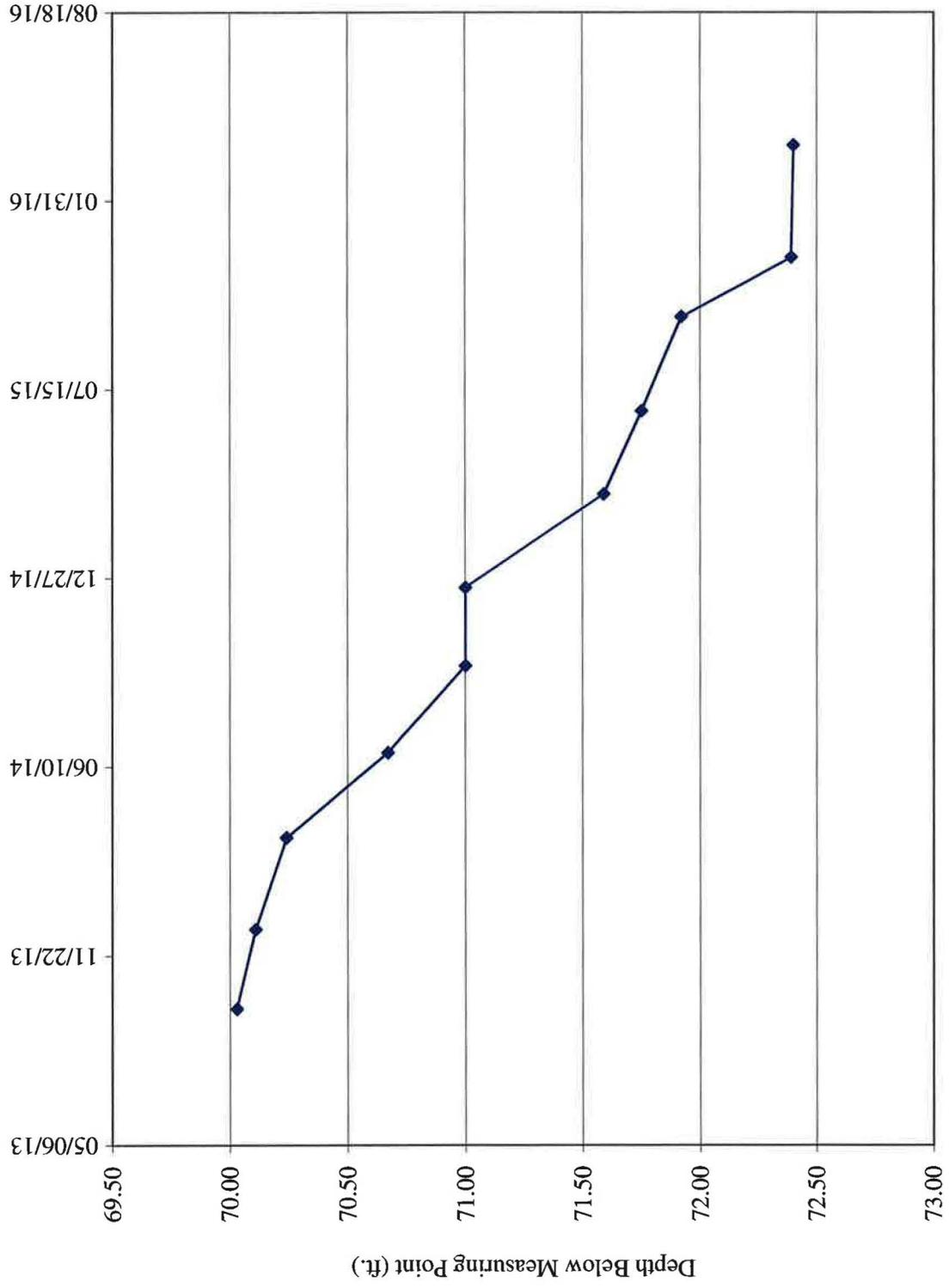
TW4-32 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-33**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,605.20	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	
5,534.34				12/02/15	72.39	70.86	
5,534.33				03/30/16	72.40	70.87	

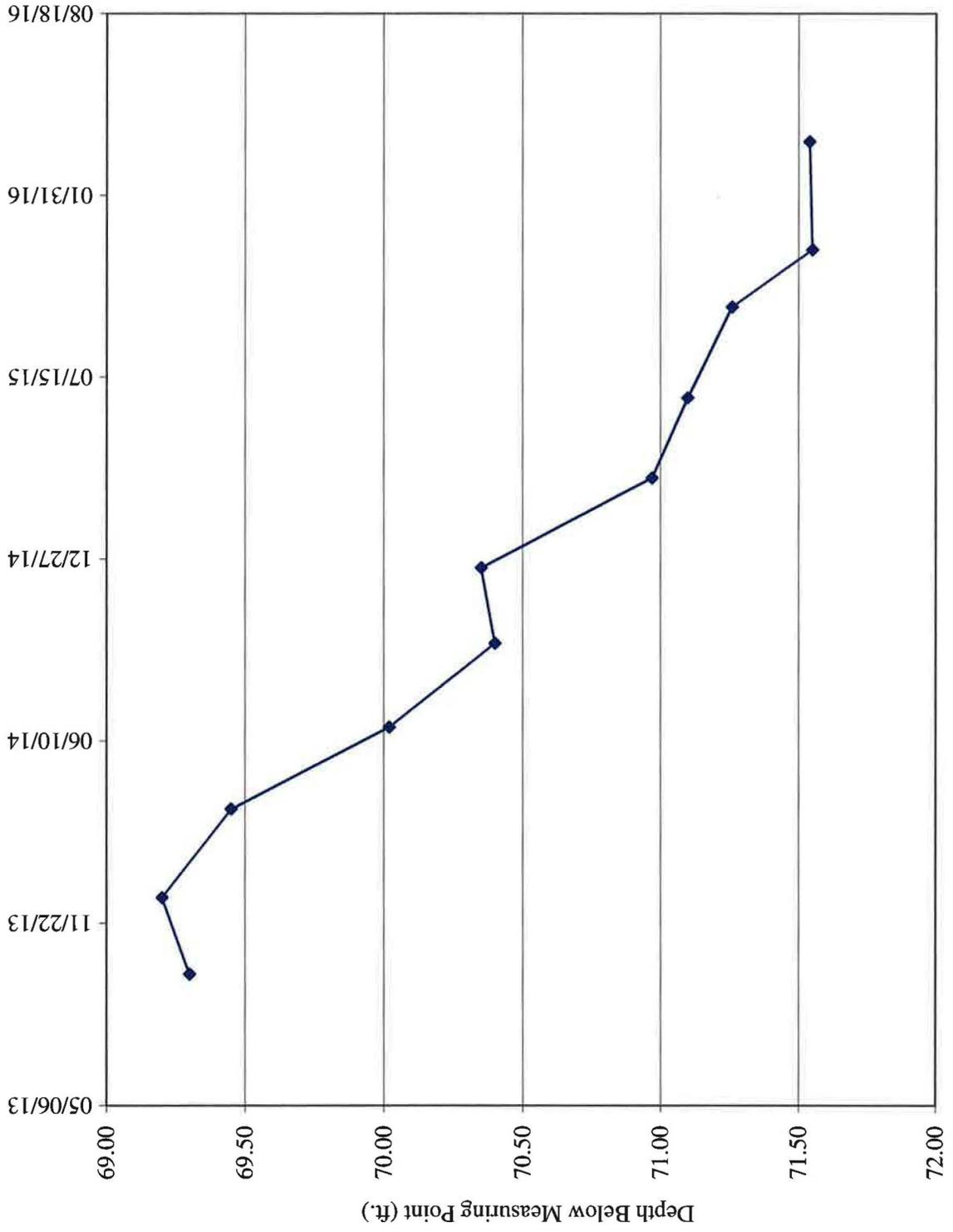
TW4-33 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time  
White Mesa Mill - Well TW4-34**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,601.60	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	
5,531.79				12/02/15	71.55	69.81	
5,531.80				03/30/16	71.54	69.80	

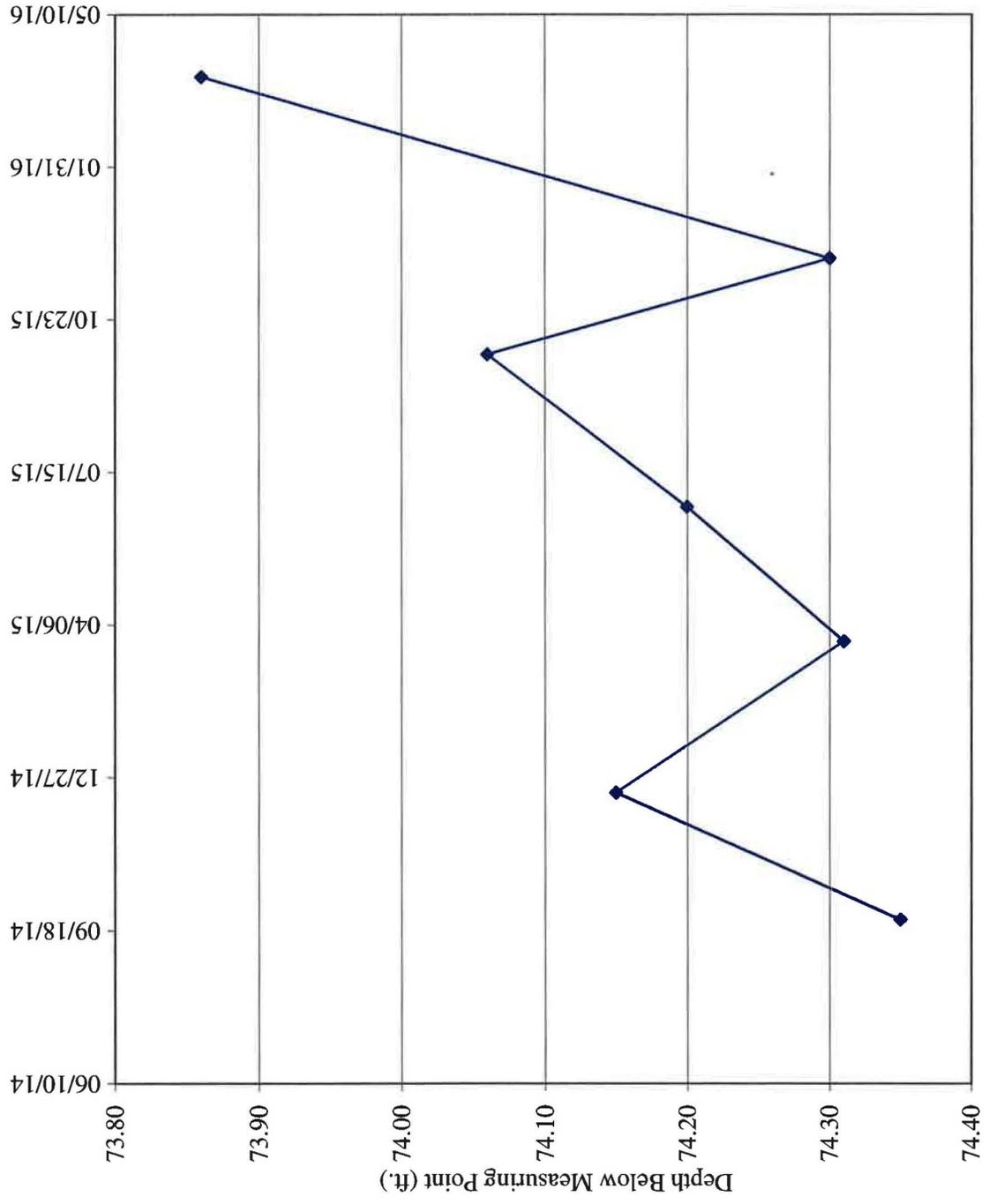
TW4-34 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-35**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,598.67	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	
5,525.57				12/02/15	74.30	73.10	
5,526.01				03/30/16	73.86	72.66	

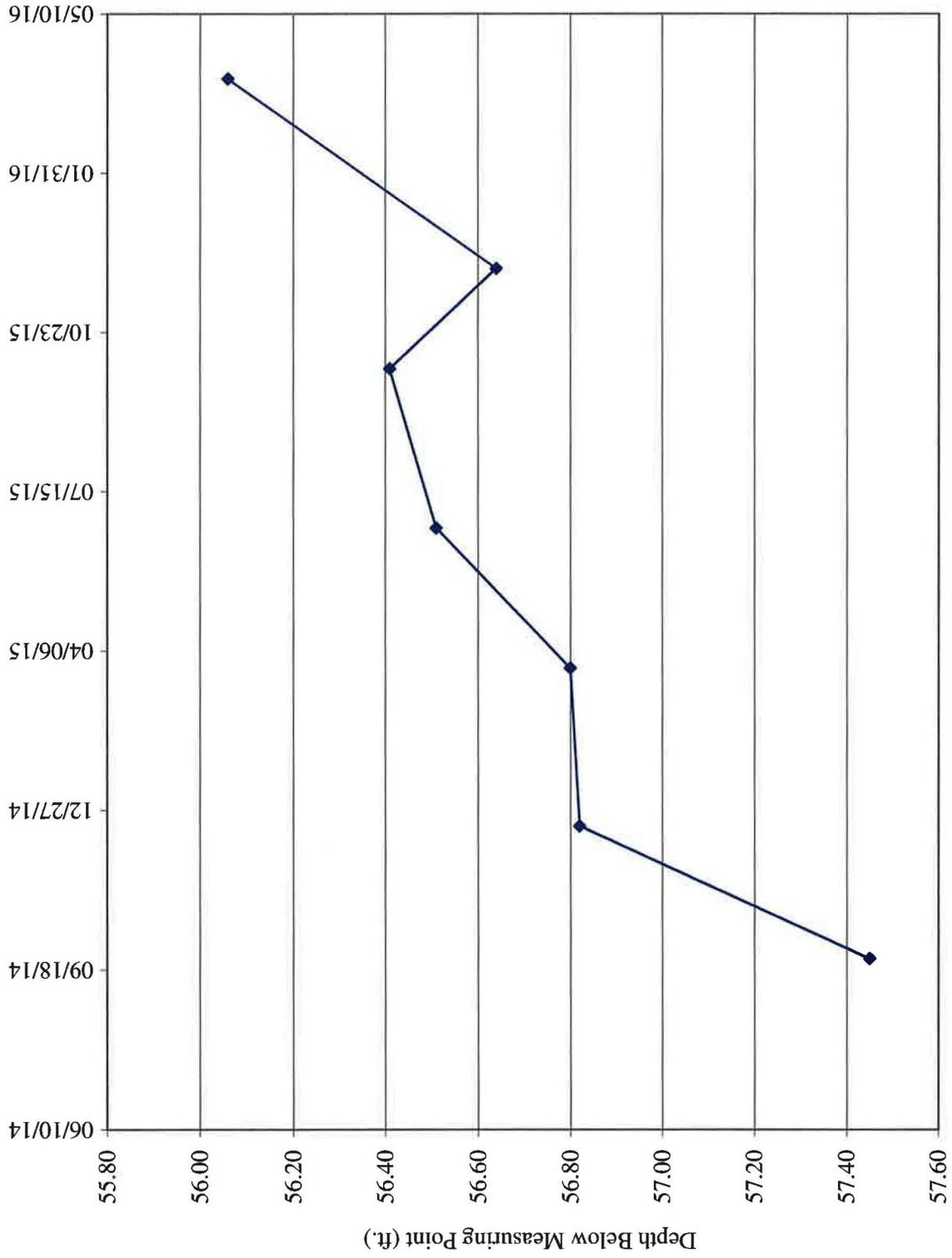
TW4-35 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-36**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,615.18	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	
5,559.95				12/02/15	56.64	55.23	
5,560.53				03/30/16	56.06	54.65	

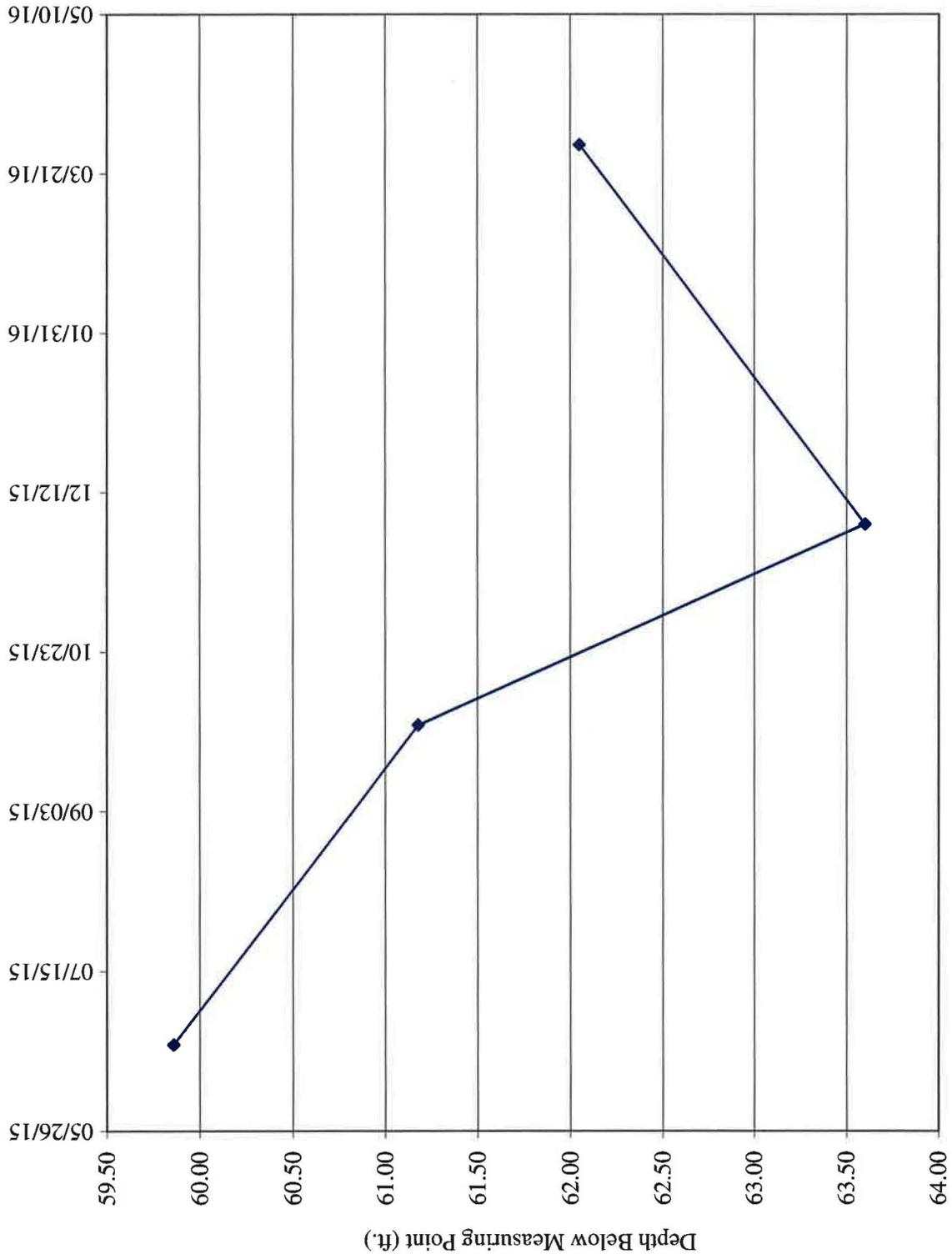
TW4-36 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-37**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,630.13	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	
5,568.25				12/02/15	63.60	61.88	
5,569.80				03/30/16	62.05	60.33	

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
Q4 2015	99633.4	1200.0	377112.4	452534903	453	1.0	19355.6	2680.0	73260.9	196339335	196	0.4
Q1 2016	90882.1	1240.0	343988.7	426546048	427	0.9	19150.8	2650.0	72485.8	192087312	192	0.4
Totals	4838026.48					87.3	2447985.6					31.2

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
Q4 2015	112762.7	7840	426806.8	3.346E+09	3346	7.4	15547.4	17000	58846.9	1E+09	1000	2.2
Q1 2016	116597.0	7780	441319.6	3.433E+09	3433	7.6	14353.5	21600	54328.0	1.173E+09	1173	2.6
Totals	17403837.83					360.5	2260884.09					261.3

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
Q4 2015	59235.1	1190.0	224204.9	2.7E+08	267	0.6	23657.6	7530.0	89544.0	674266440.5	674.3	1.5
Q1 2016	57274.0	1190.0	216782.1	2.6E+08	258	0.6	24517.8	6070.0	92799.9	563295229.1	563.3	1.2
Totals	1736449.4					21.3	308073.2					27.2

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	0.026	124137.1	0.0	469858.9	0.0	0.0	0.0
Q4 2015	107799.1	25.30	408019.6	10322895.7	10.3	0.023	116420.1	0.0	440650.1	0.0	0.0	0.0
Q1 2016	100063.2	22.80	378739.2	8635254.0	8.6	0.019	115483.2	0.0	437103.9	0.0	0.0	0.0
Totals	2128068.9				0.75		1520464.8				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
Q4 2015	20764.3	1040.0	78592.9	81736590.5	81.7	0.18	21769.8	2070.0	82398.7	170565294.5	170.6	0.38
Q1 2016	19255.6	974.0	72882.4	70987502.4	71.0	0.16	20944.6	1970.0	79275.3	156172362.7	156.2	0.34
Totals	112231.0					1.03	110487.9					1.6

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
Q4 2015	4110.3	2730.0	15557.5	42471935.4	42.5	0.09	134774.9	339.0	510123.0	172931695.8	172.9	0.38
Q1 2016	3676.2	2660.0	13914.4	37012349.2	37.0	0.08	125513.3	390.0	475067.8	185276457.8	185.3	0.41
Totals	26512.9				0.53		416317.3					1.18

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
Q4 2015	111737.5	19500.0	422926.4	8247065531.3	8247.1	18.2	32.3	847567.8
Q1 2016	111591.0	17500.0	422371.9	7391508862.5	7391.5	16.3	30.6	819302.3
<b>Totals</b>	<b>370598.4</b>				<b>60.7</b>	<b>854.5</b>		<b>33679937.8</b>

**Table G-2  
Chloroform Mass Removal Per Well Per Quarter**

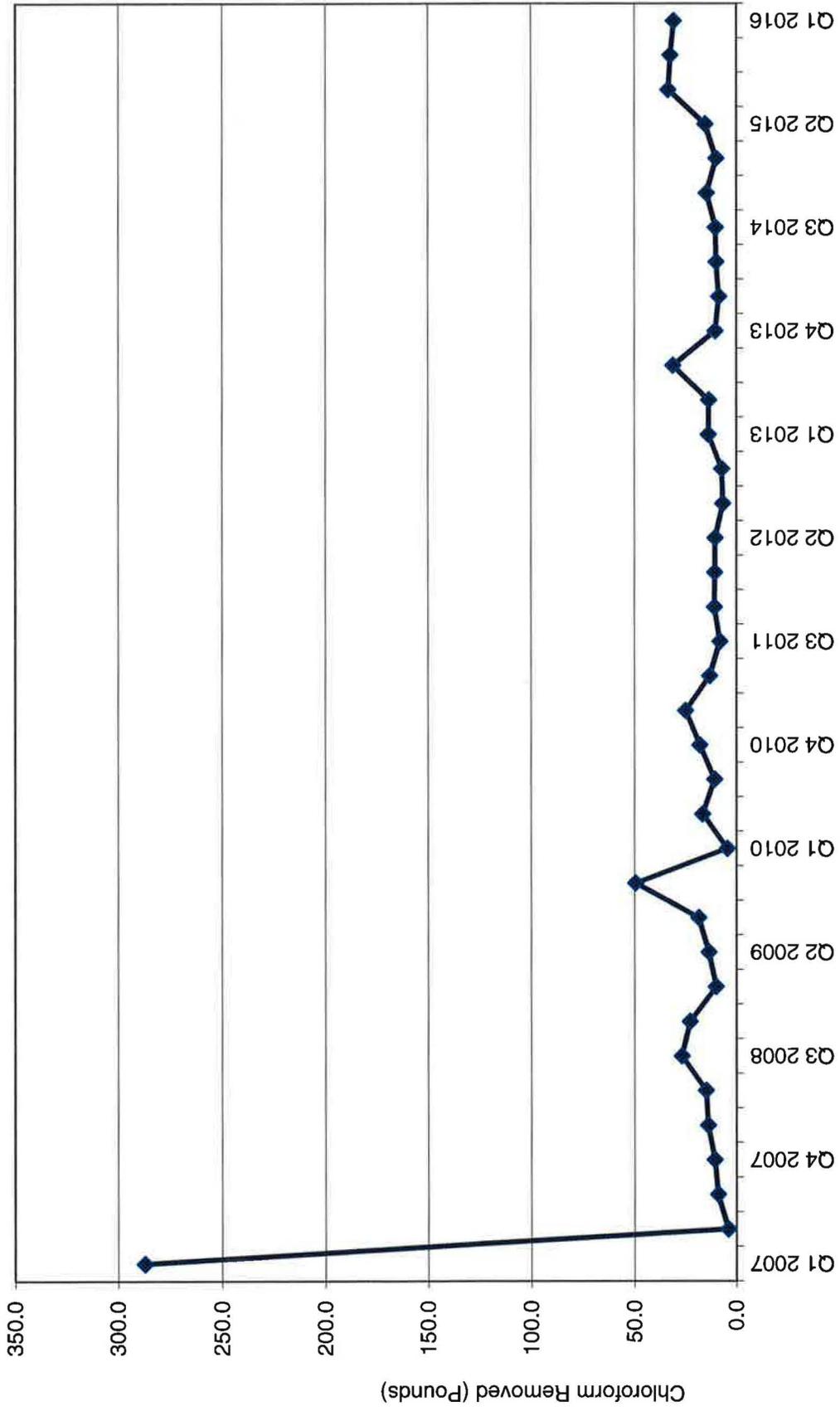
<b>Quarter*</b>	<b>MW-4 (lbs.)</b>	<b>TW4-15 (MW-26) (lbs.)</b>	<b>TW4-19 (lbs.)</b>	<b>TW4-20 (lbs.)</b>	<b>TW4-4 (lbs.)</b>	<b>TW4-22 (lbs.)</b>	<b>TW4-24 (lbs.)</b>	<b>TW4-25 (lbs.)</b>	<b>TW4-01 (lbs.)</b>	<b>TW4-02 (lbs.)</b>	<b>TW4-11 (lbs.)</b>	<b>TW4-21 (lbs.)</b>	<b>TW4-37 (lbs.)</b>	<b>Quarter Totals (lbs.)</b>
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
Q4 2015	1.0	0.4	7.4	2.2	0.6	1.5	0.02	0.0	0.18	0.38	0.09	0.38	18.2	32.3
<b>Q1 2016</b>	<b>0.9</b>	<b>0.4</b>	<b>7.6</b>	<b>2.6</b>	<b>0.6</b>	<b>1.2</b>	<b>0.02</b>	<b>0.0</b>	<b>0.16</b>	<b>0.34</b>	<b>0.08</b>	<b>0.41</b>	<b>16.3</b>	<b>30.6</b>
<b>Well Totals</b>	<b>87.3</b>	<b>31.2</b>	<b>360.5</b>	<b>261.3</b>	<b>21.3</b>	<b>27.2</b>	<b>0.75</b>	<b>0.00</b>	<b>1.03</b>	<b>1.63</b>	<b>0.53</b>	<b>1.18</b>	<b>60.7</b>	<b>854.5</b>

\* Q1 2007 represents the cumulative total prior to and including Q1 2007.

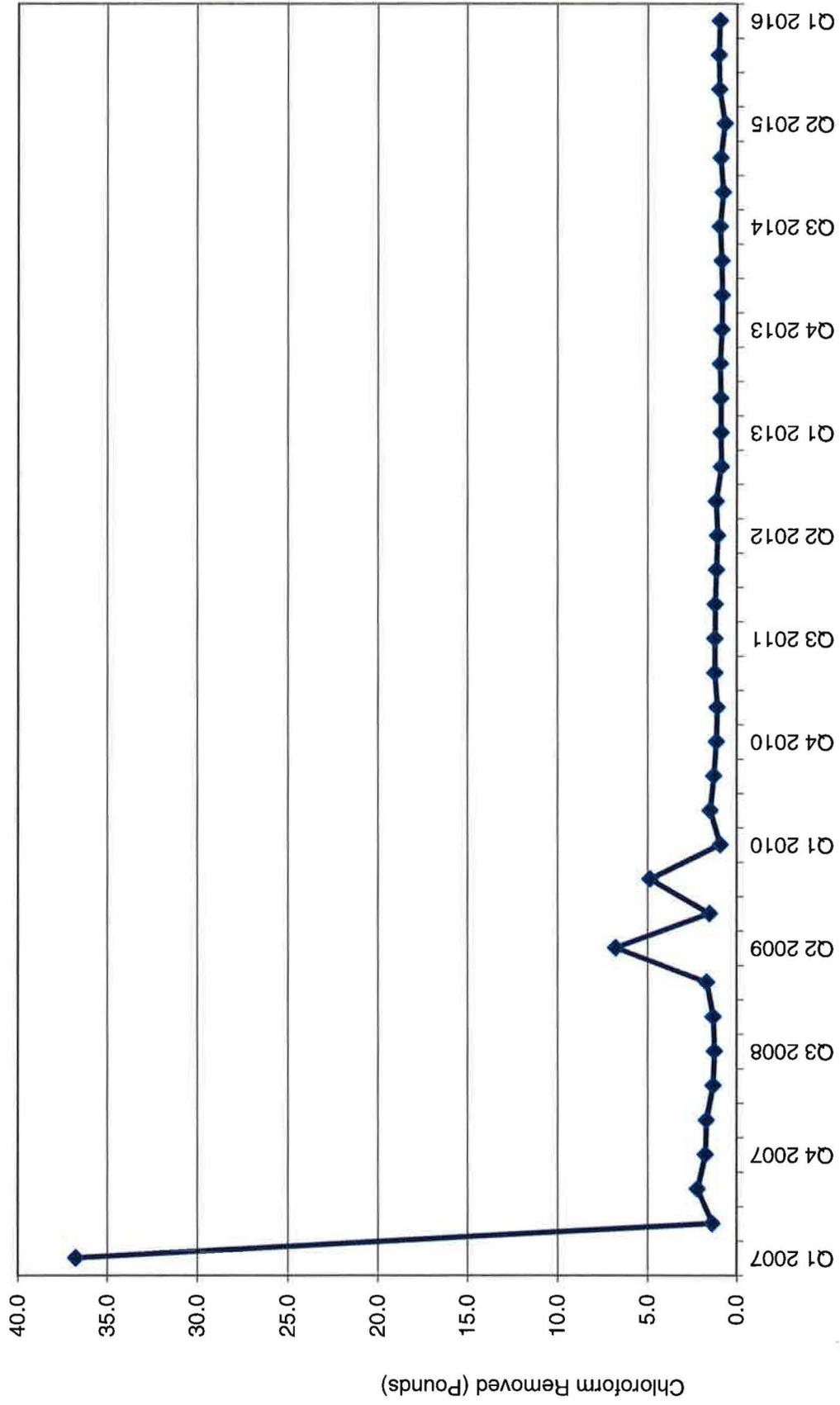
**Table G-3 Well Pumping Rates and Volumes**

Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	90,882.1	4.5
MW-26	19,150.8	8.2
TW4-4	57,274.0	11.1
TW4-19	116,597.0	18.1
TW4-20	14,353.5	6.2
TW4-22	24,517.8	17.5
TW4-24	100,063.2	15.9
TW4-25	115,483.2	14.8
TWN-2	47,670.2	18.6
TW4-01	19,255.6	15.8
TW4-02	20,944.6	16.8
TW4-11	3,676.2	16.3
TW4-21	125,513.3	16.3
TW4-37	111,591.0	17.0

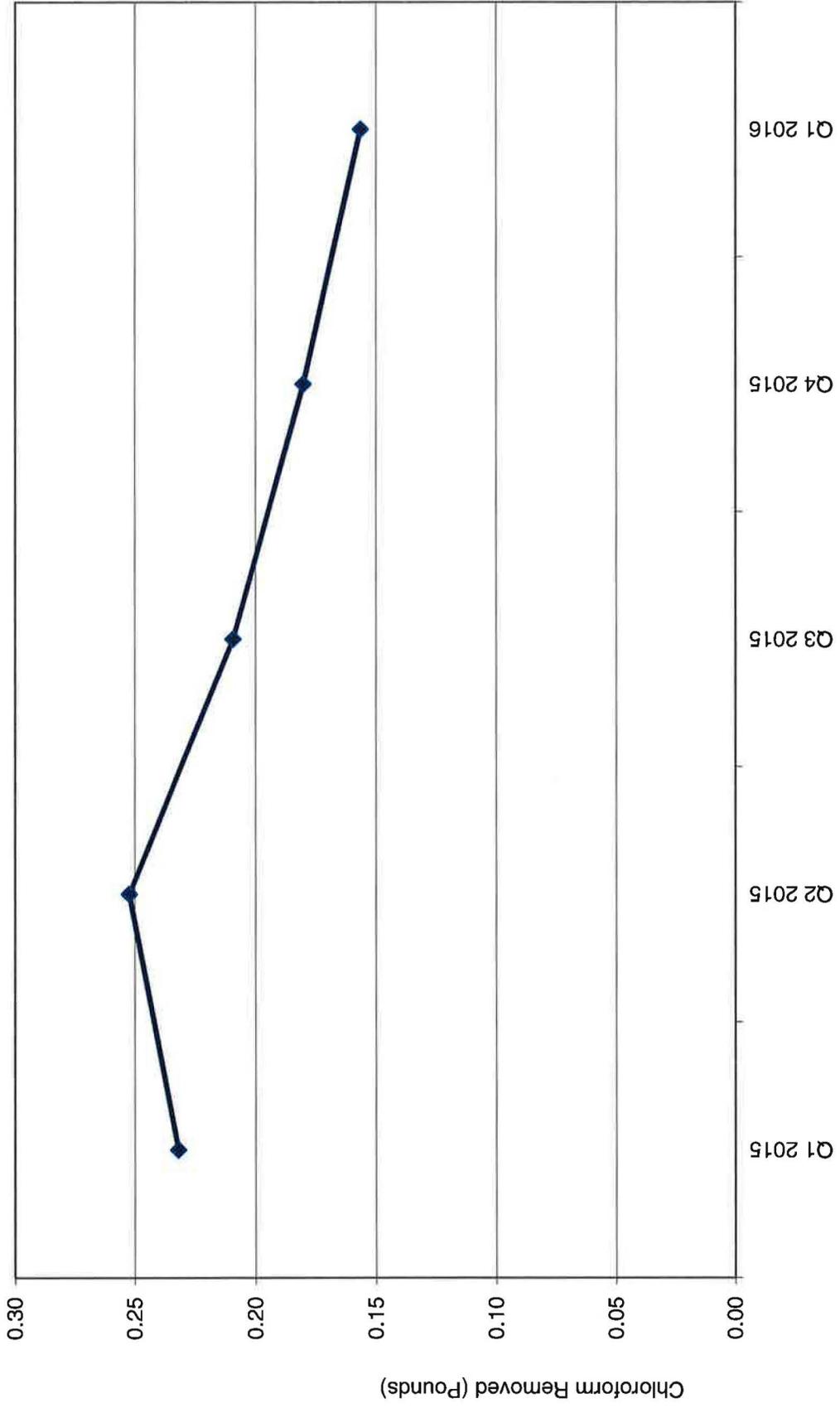
Mass of Chloroform Removed by Quarter (lbs.)



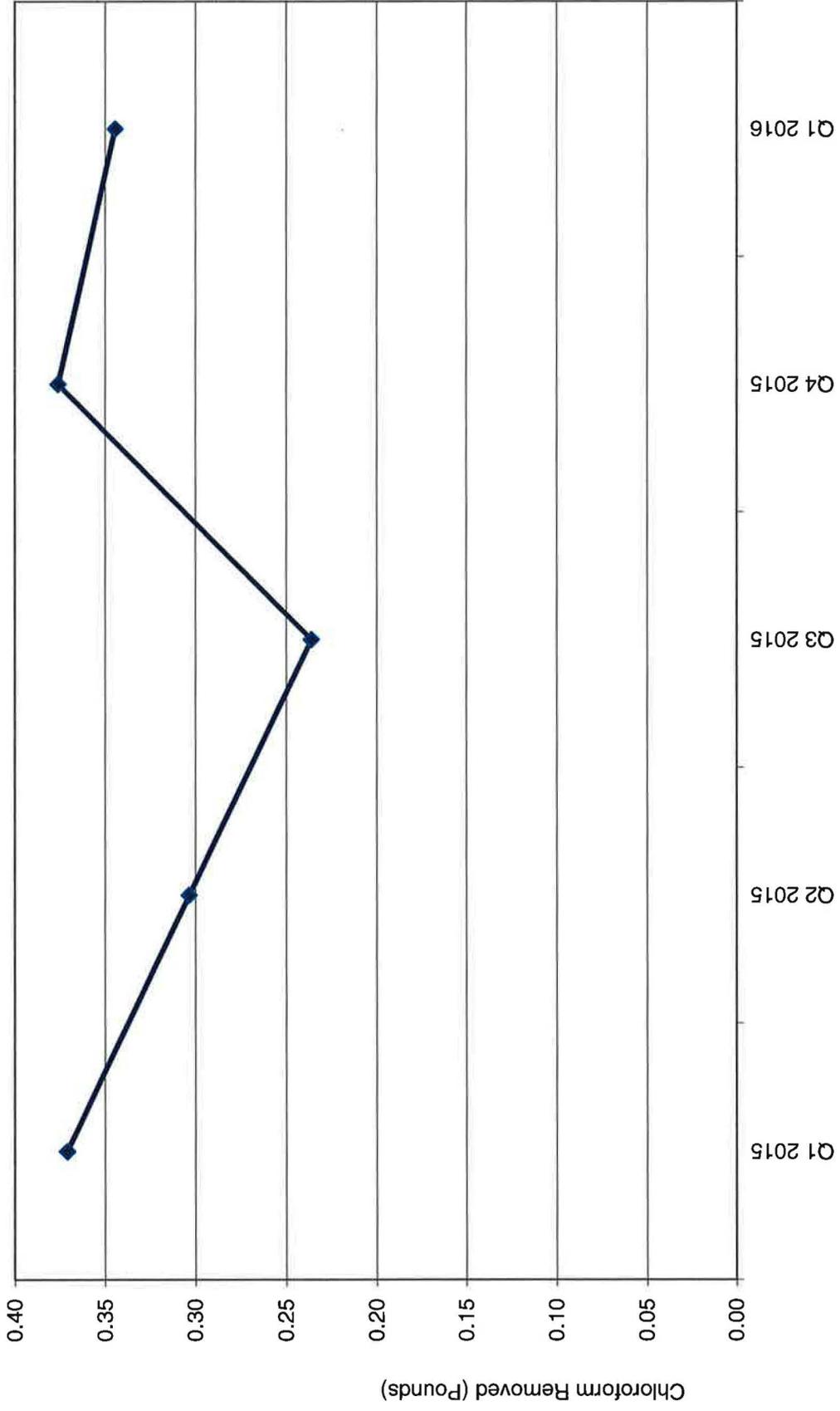
MW-04 Mass of Chloroform Removed by Quarter (lbs.)



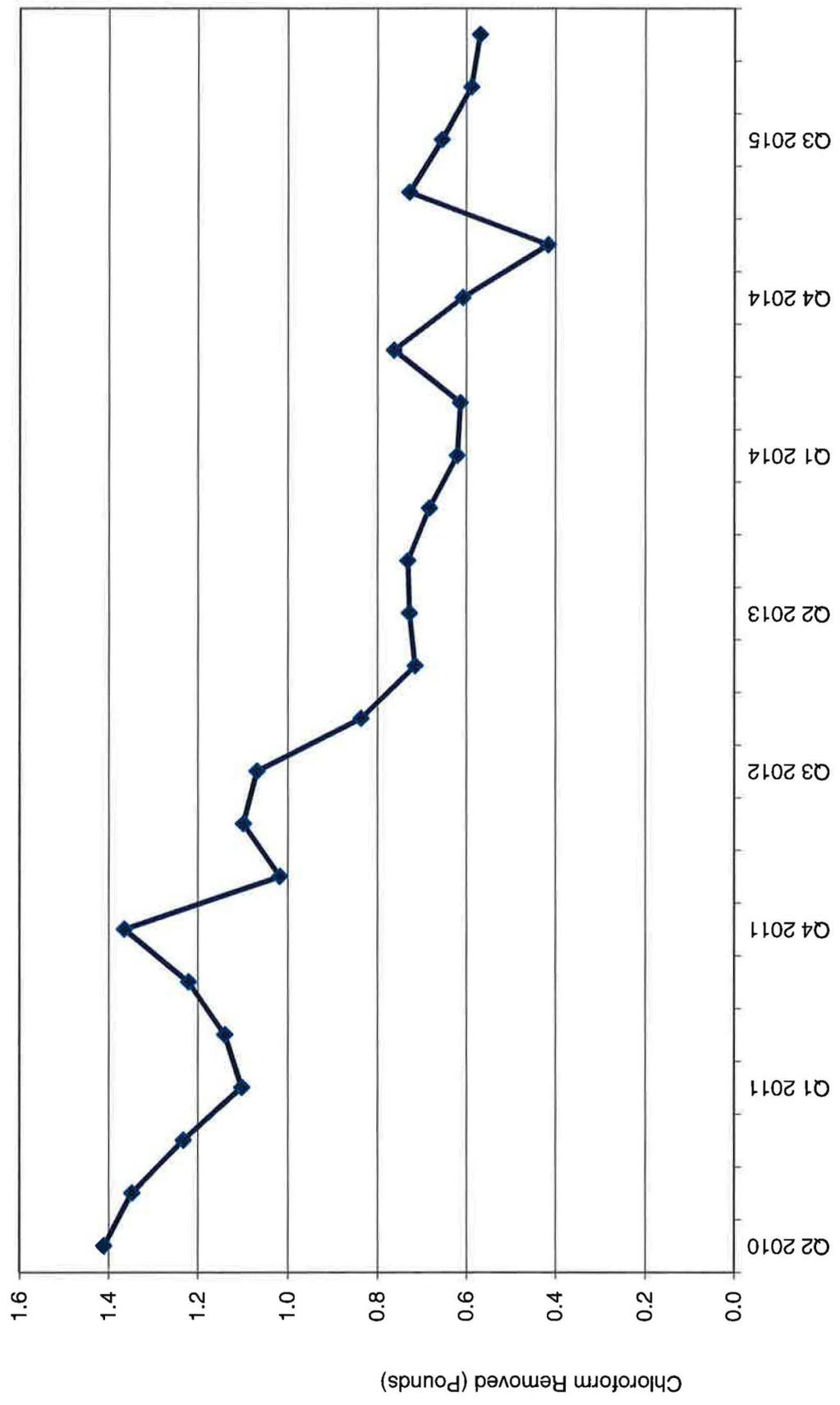
TW4-01 Mass of Chloroform Removed by Quarter (lbs.)



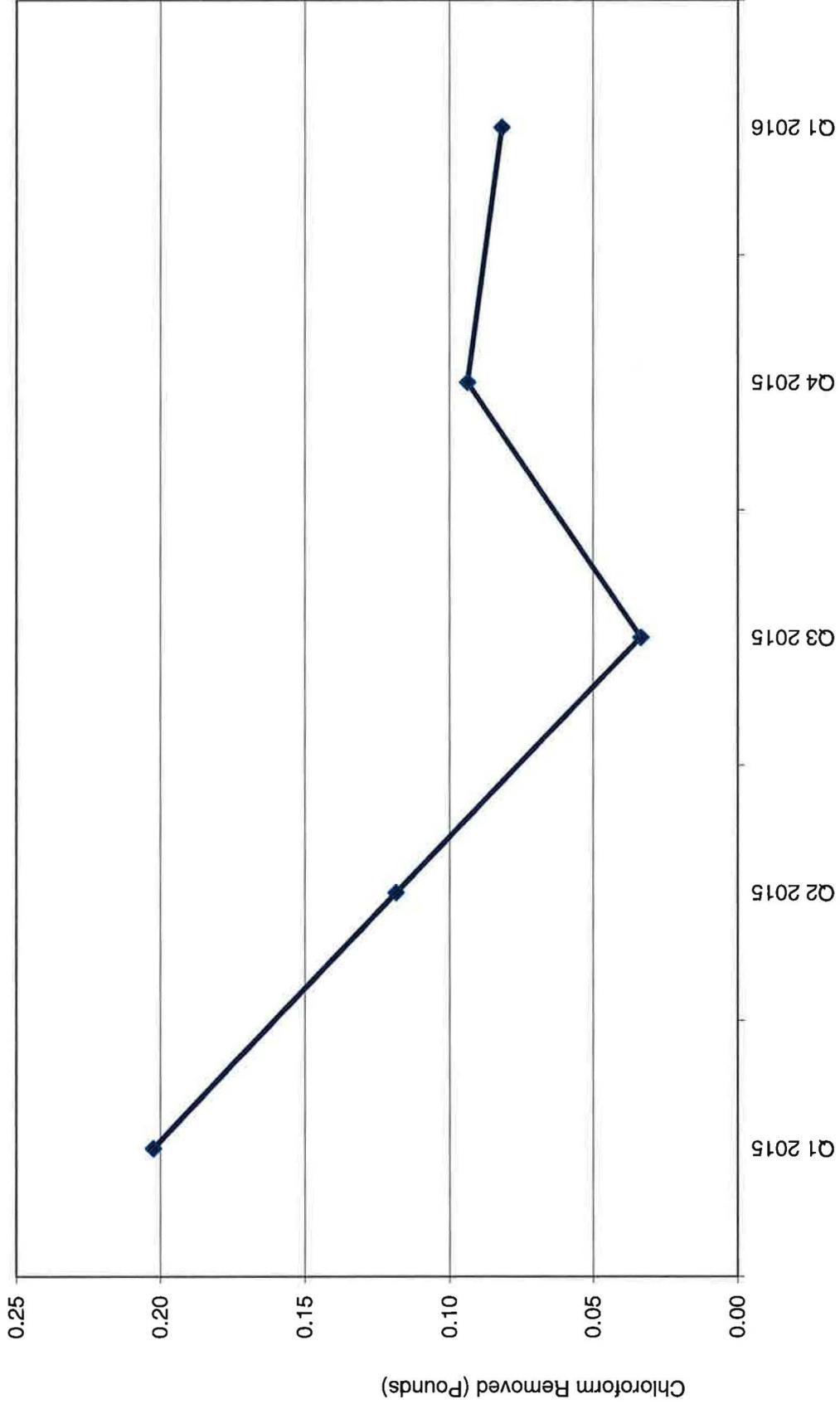
TW4-02 Mass of Chloroform Removed by Quarter (lbs.)



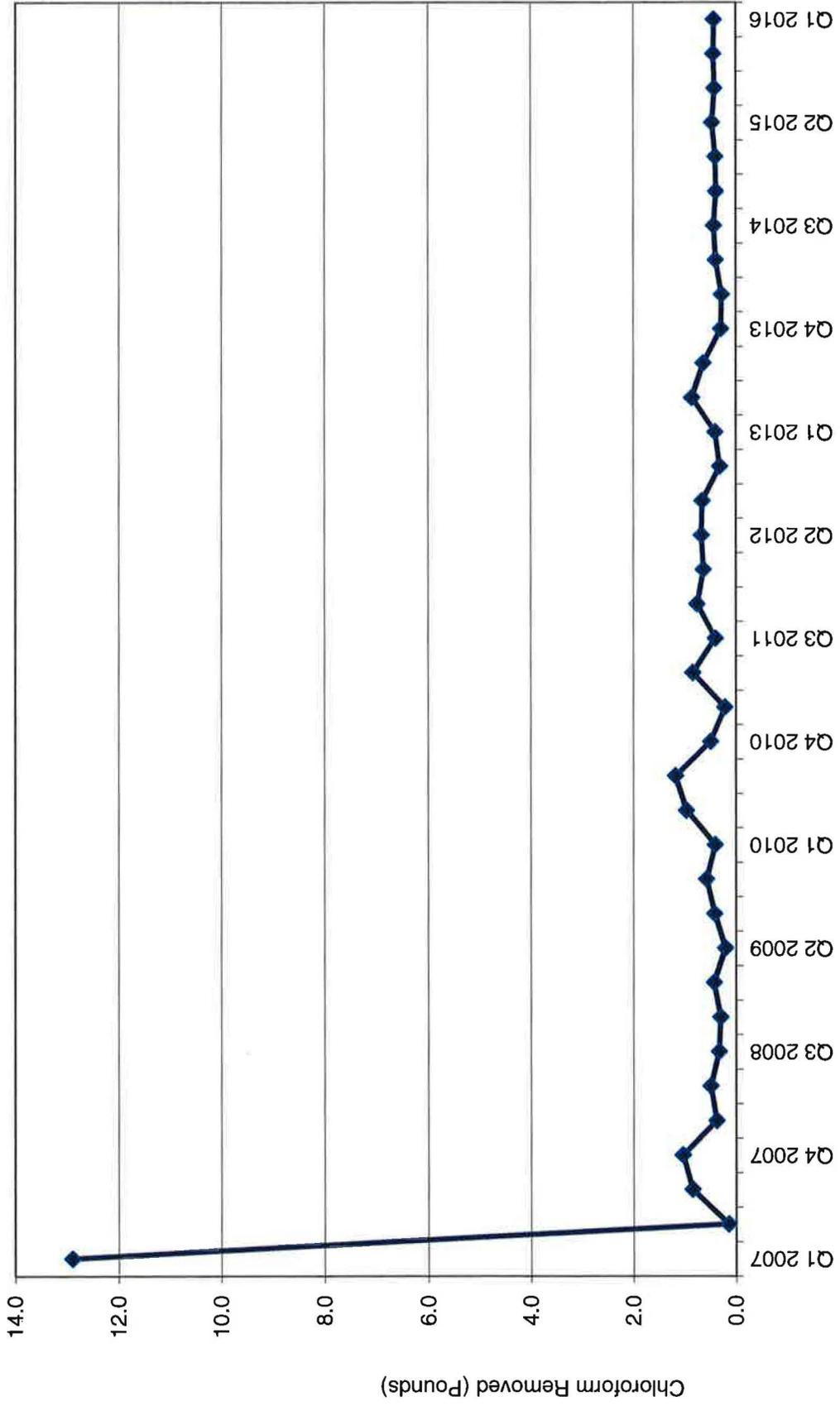
TW4-04 Mass of Chloroform Removed by Quarter (lbs.)



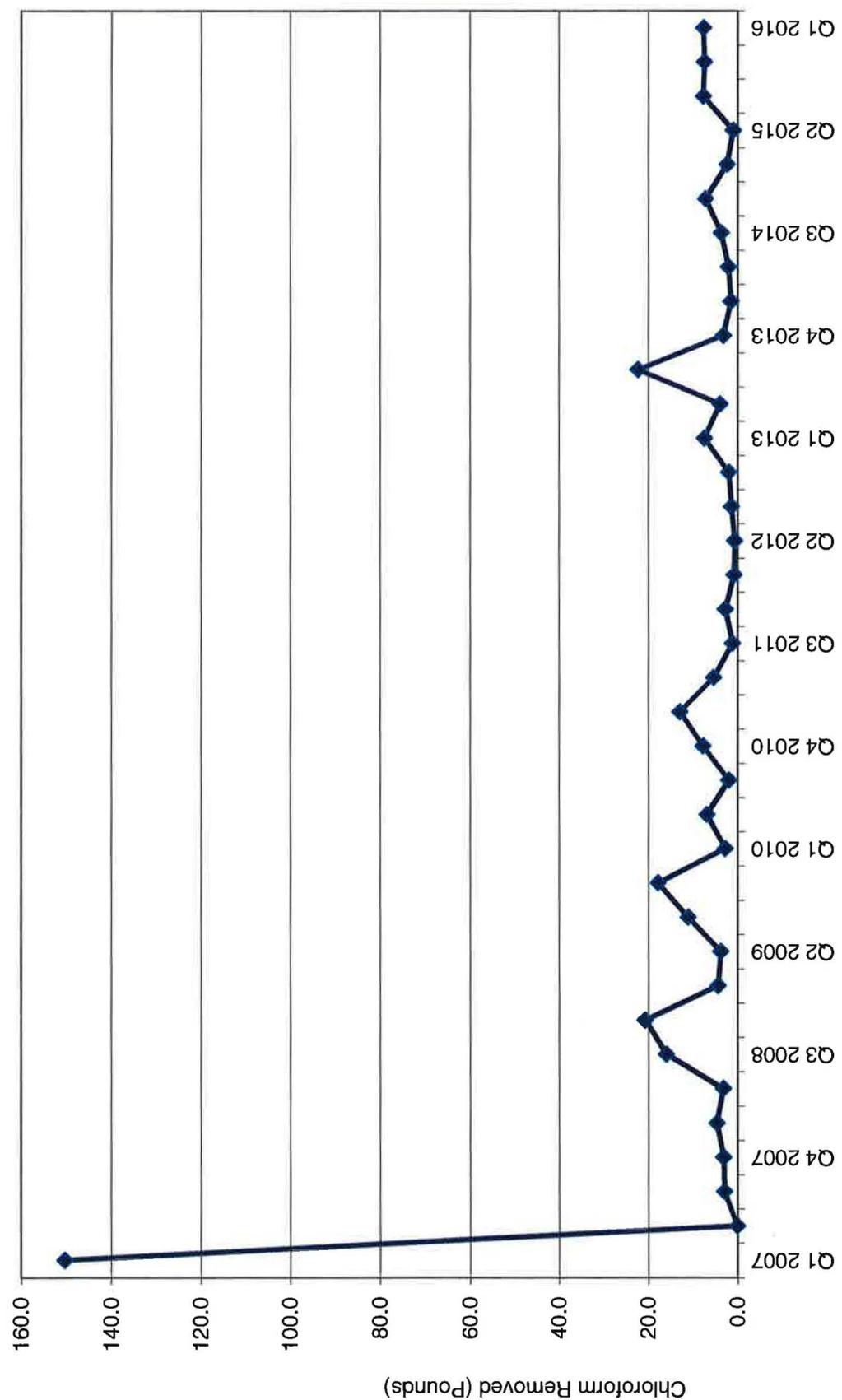
TW4-11 Mass of Chloroform Removed by Quarter (lbs.)



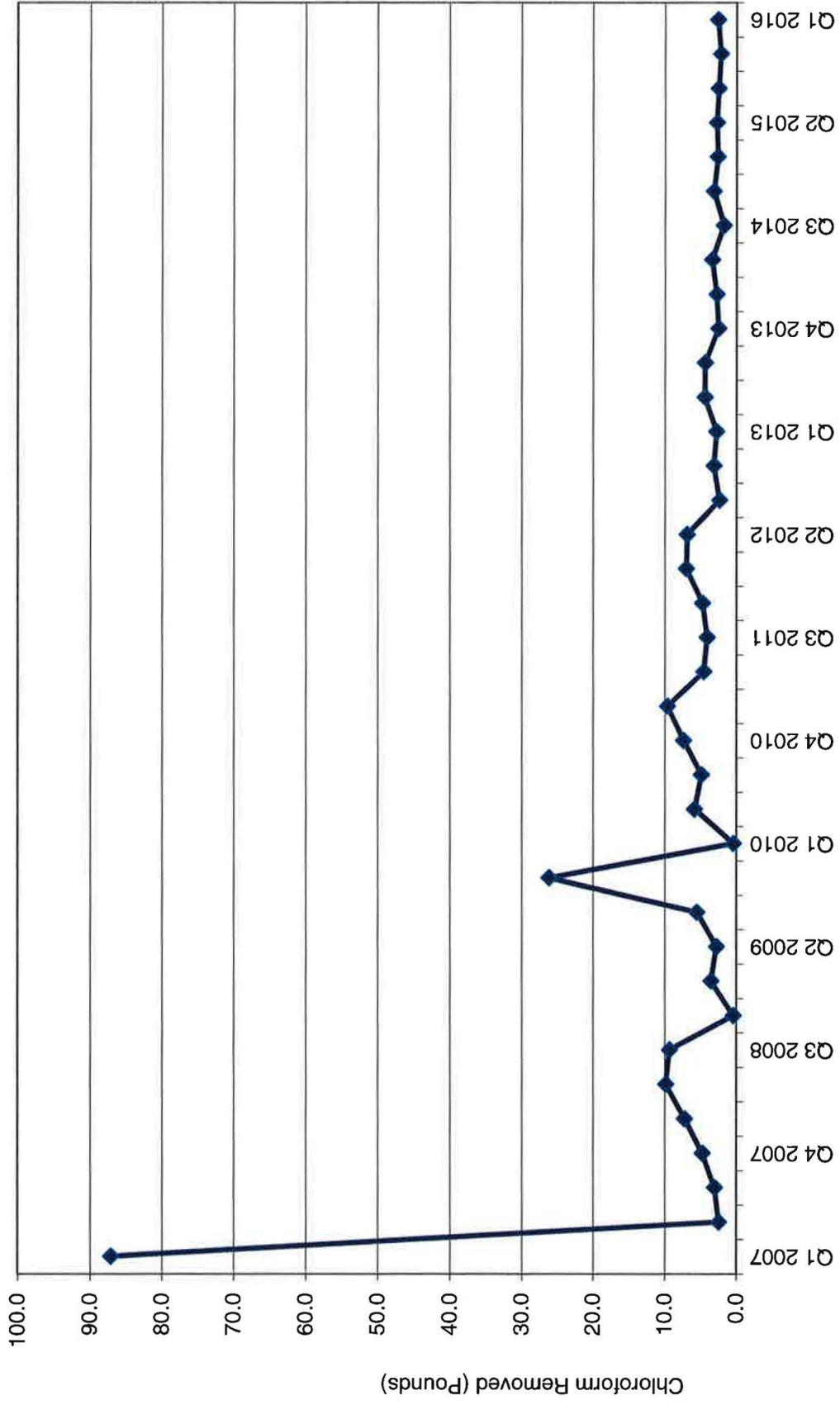
MW-26 Mass of Chloroform Removed by Quarter (lbs.)



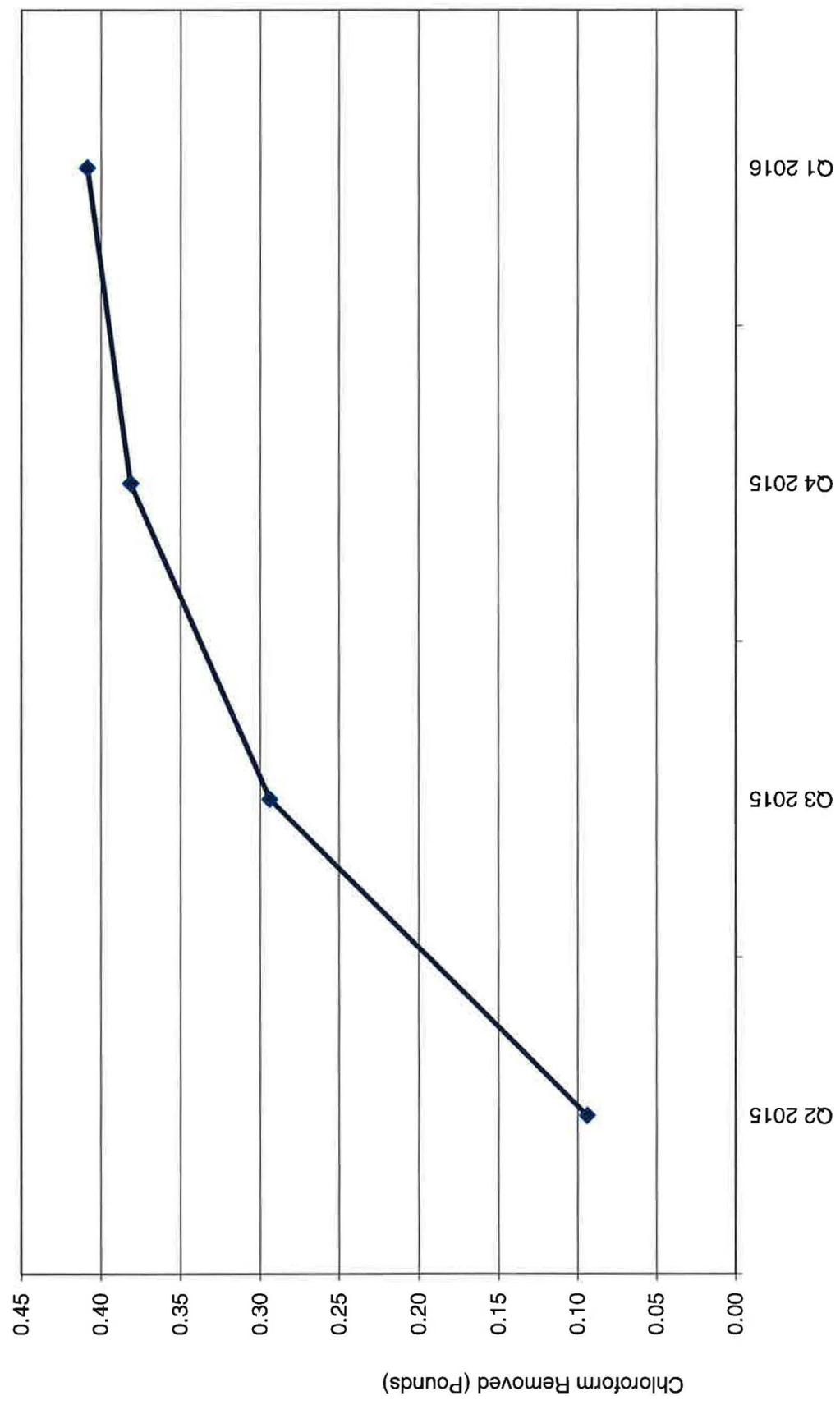
TW4-19 Mass of Chloroform Removed by Quarter (lbs.)



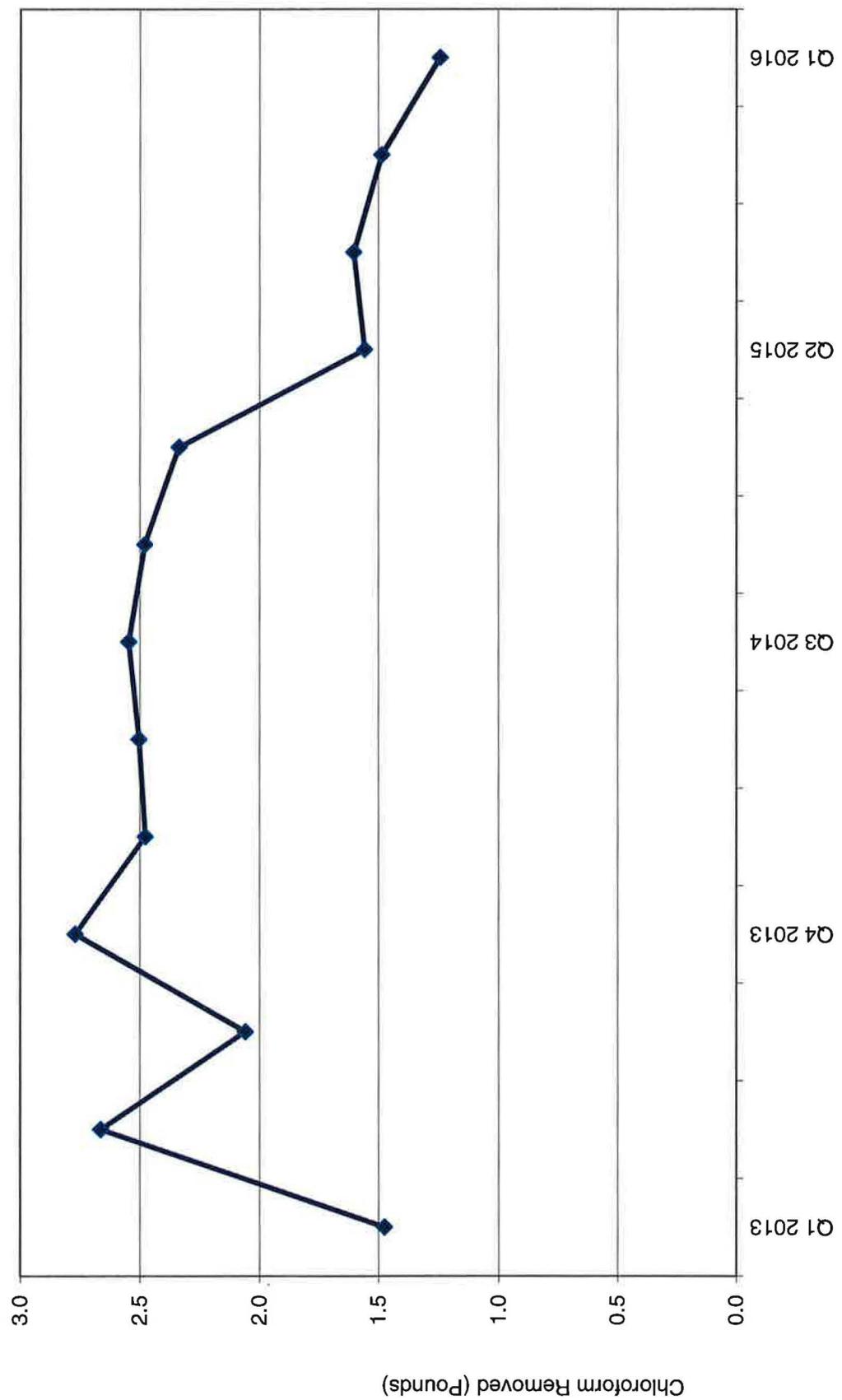
TW4-20 Mass of Chloroform Removed by Quarter (lbs.)



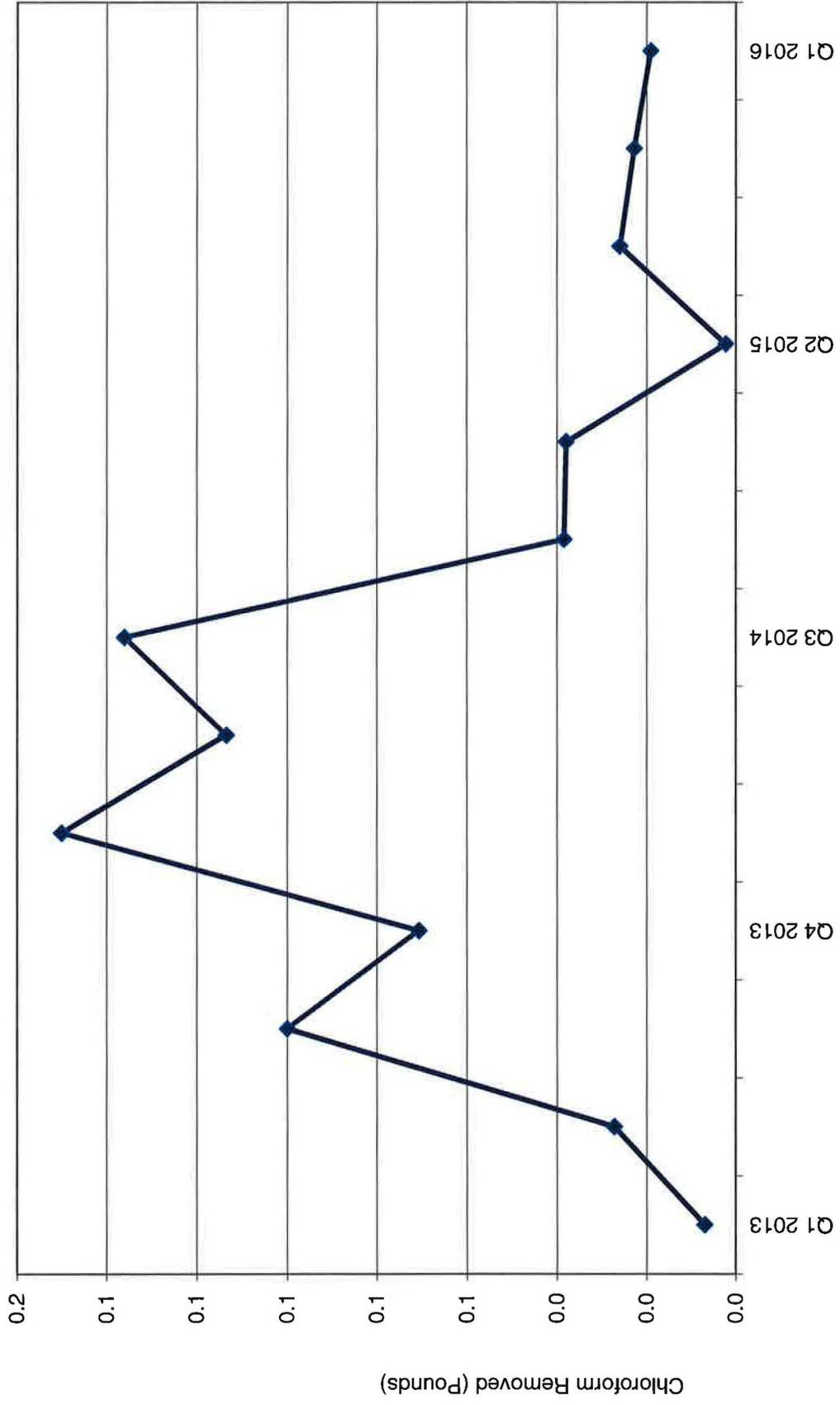
TW4-21 Mass of Chloroform Removed by Quarter (lbs.)



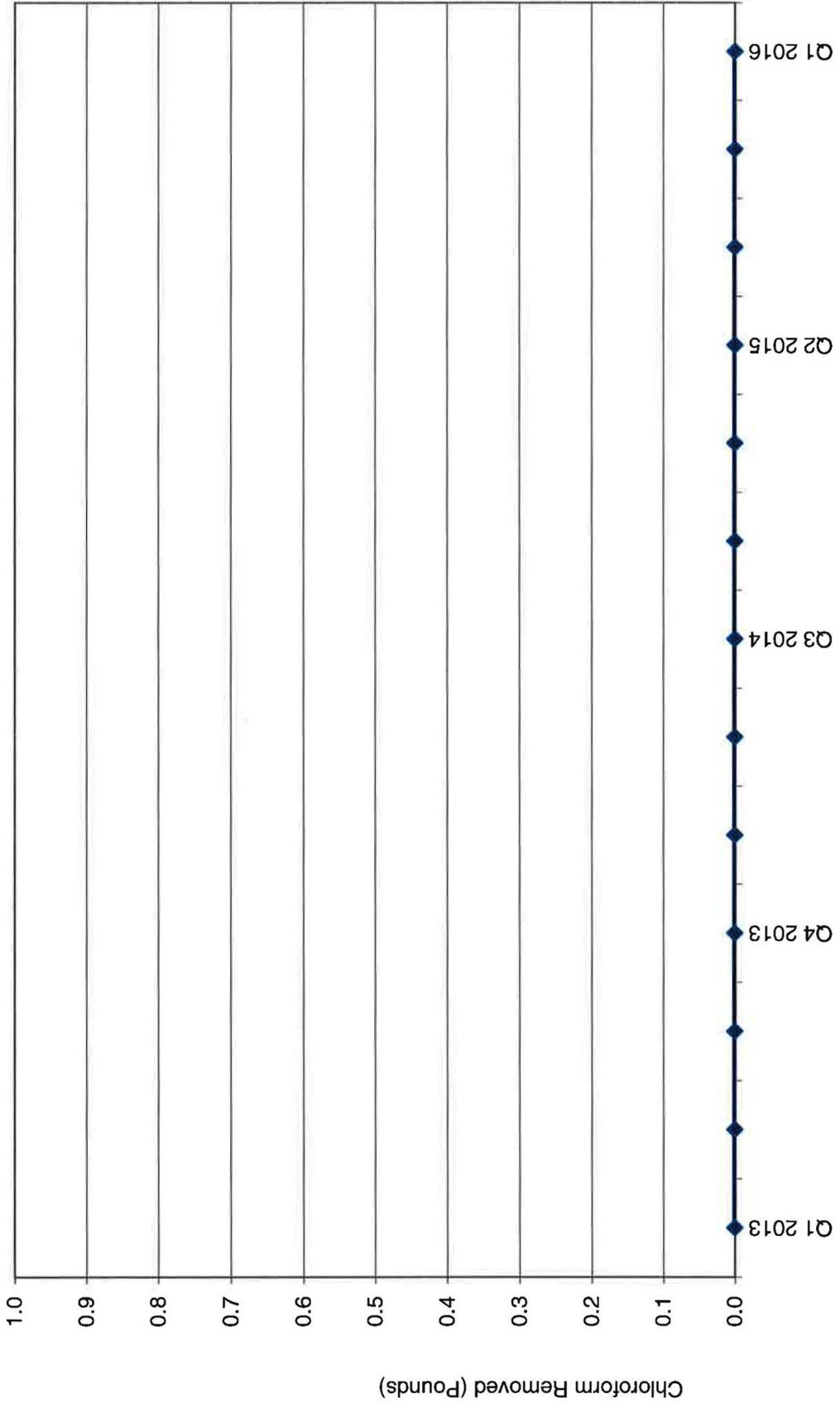
TW4-22 Mass of Chloroform Removed by Quarter (lbs.)



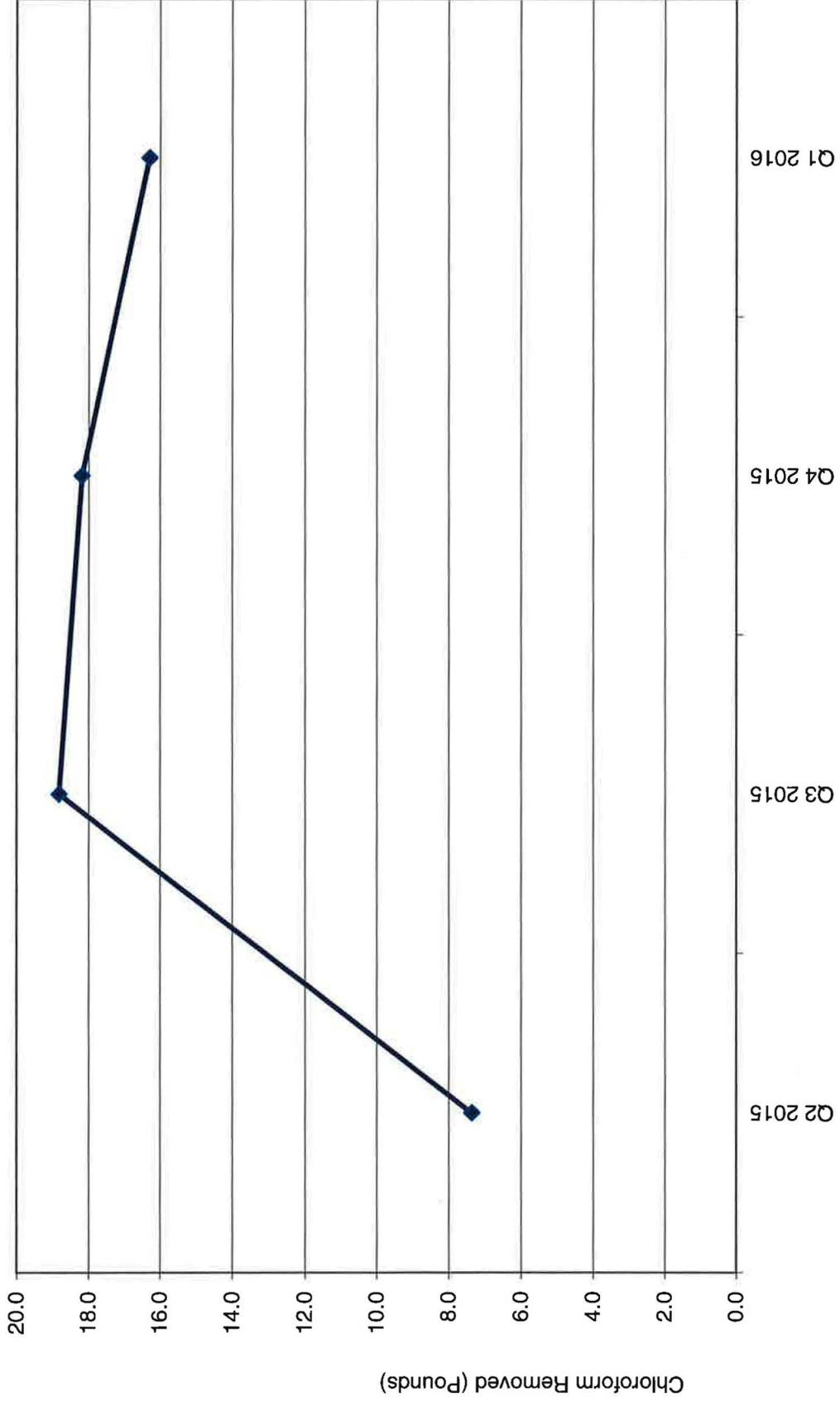
TW4-24 Mass of Chloroform Removed by Quarter (lbs.)



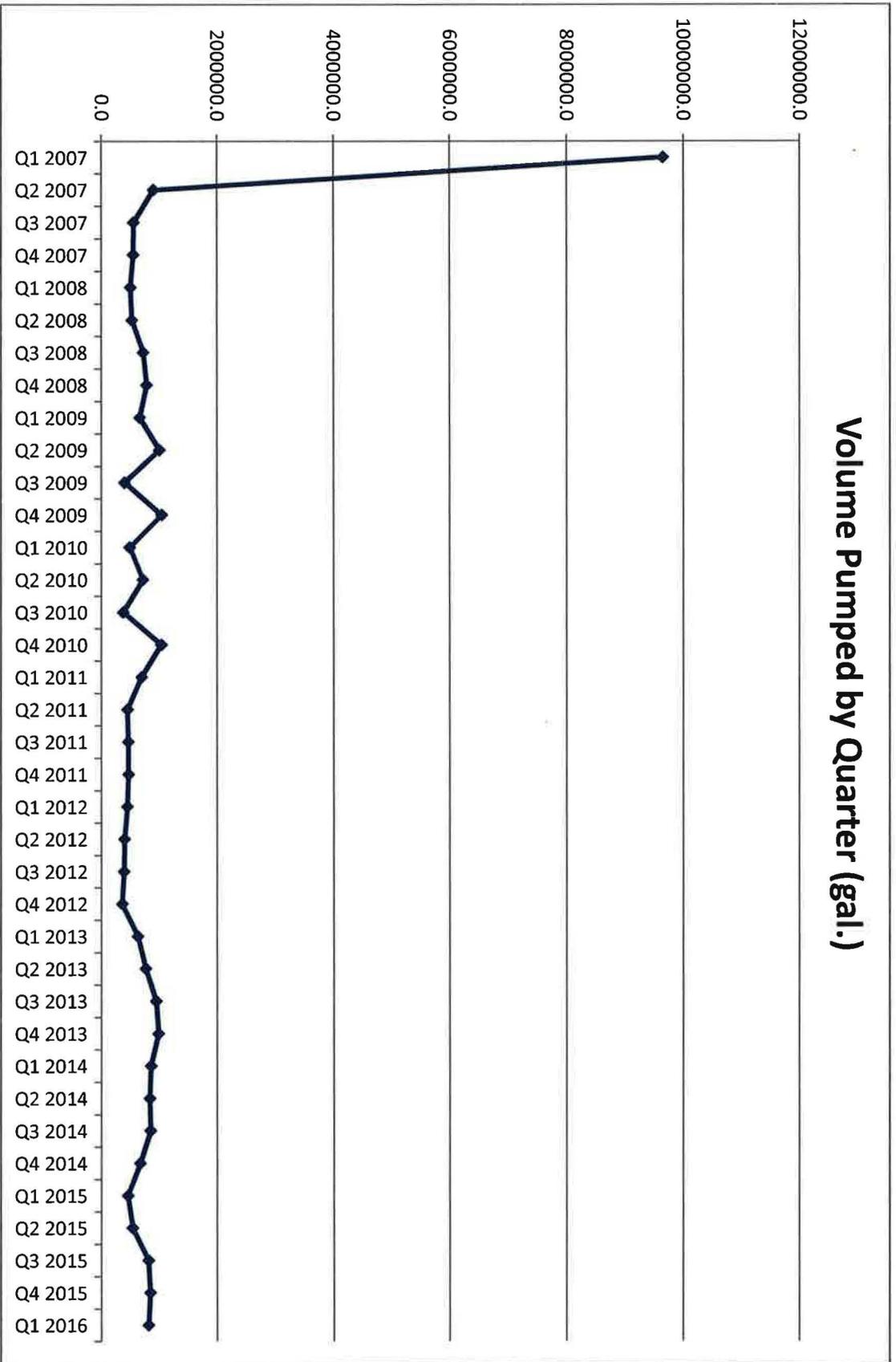
TW4-25 Mass of Chloroform Removed by Quarter (lbs.)



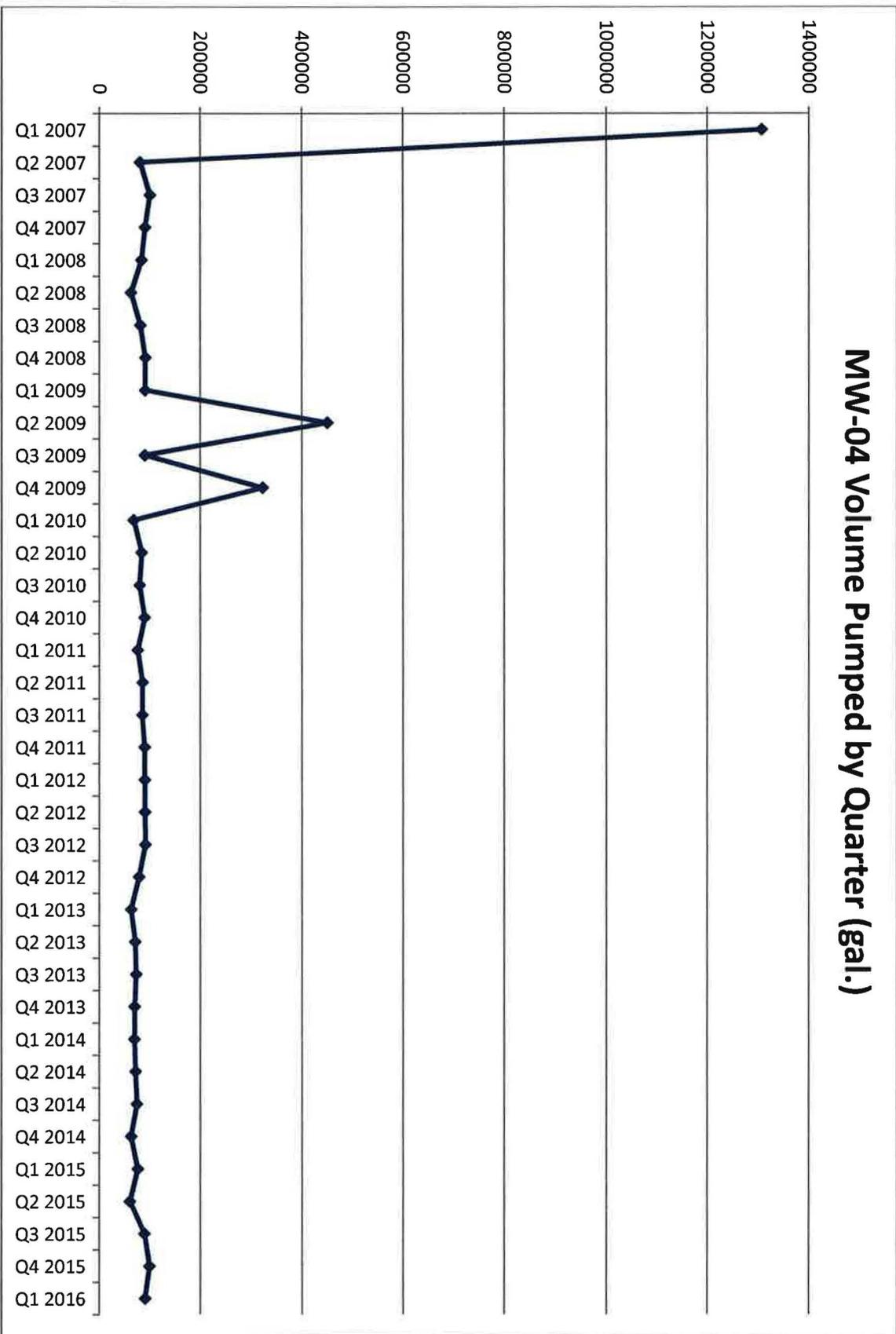
TW4-37 Mass of Chloroform Removed by Quarter (lbs.)



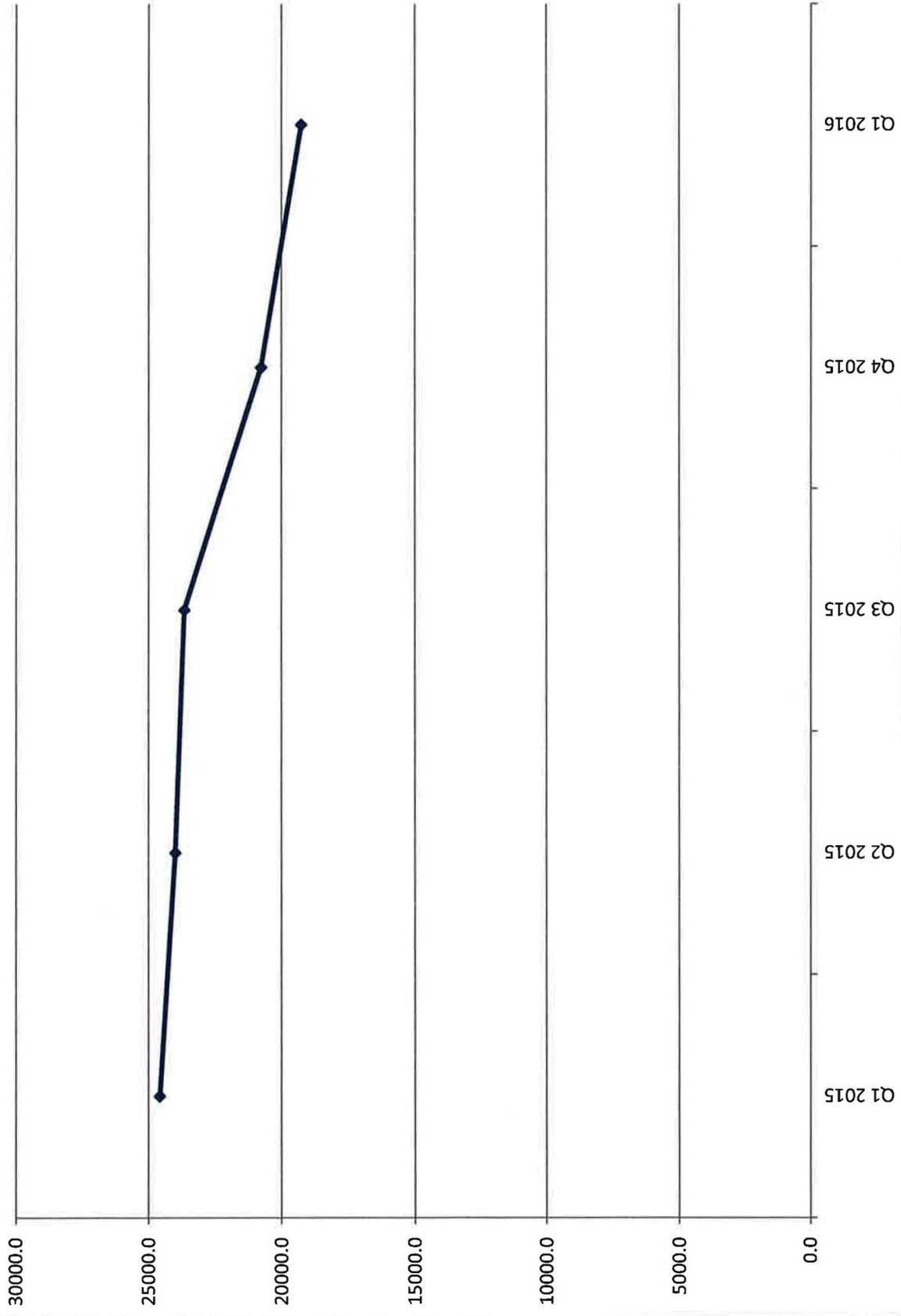
# Volume Pumped by Quarter (gal.)



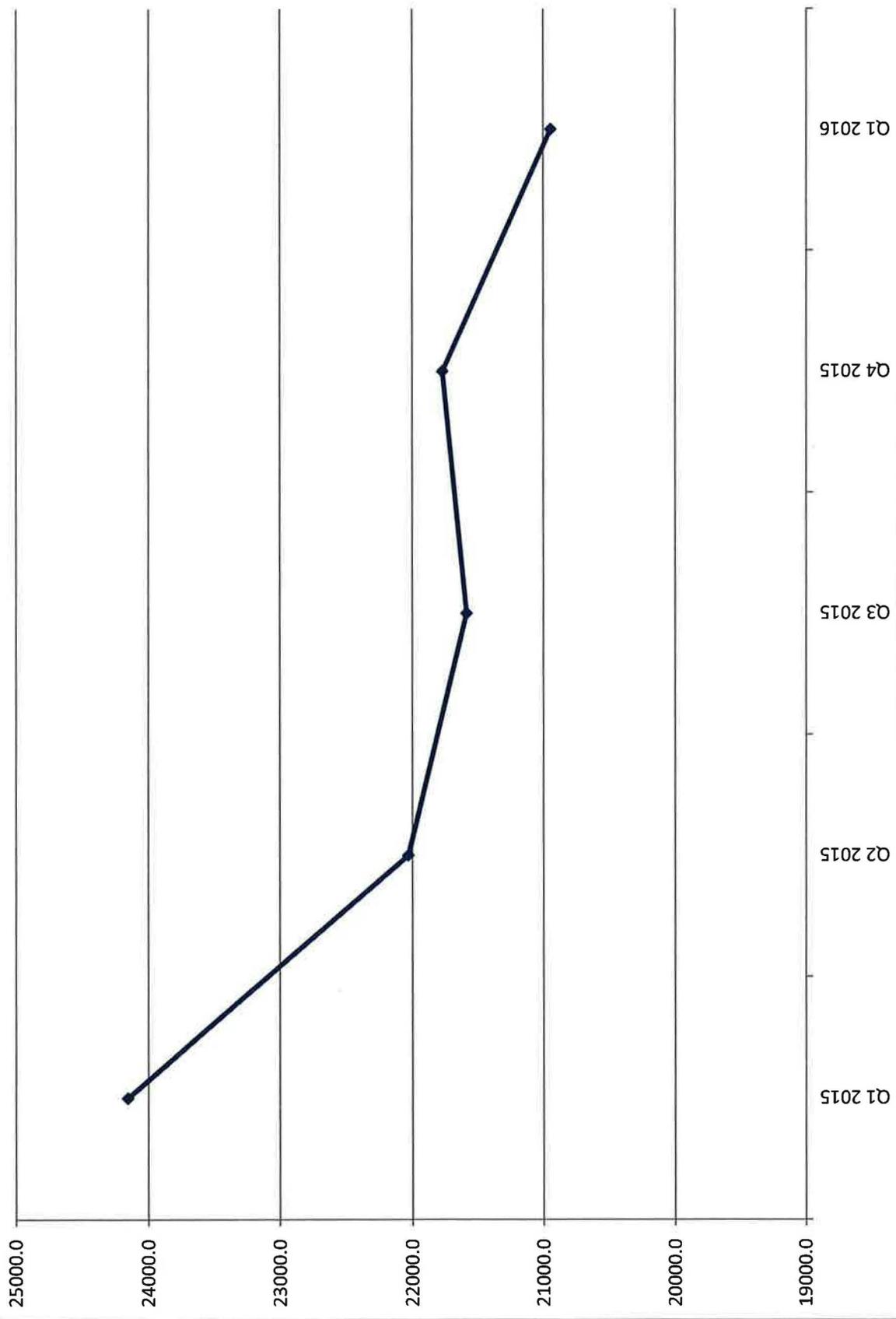
# MW-04 Volume Pumped by Quarter (gal.)



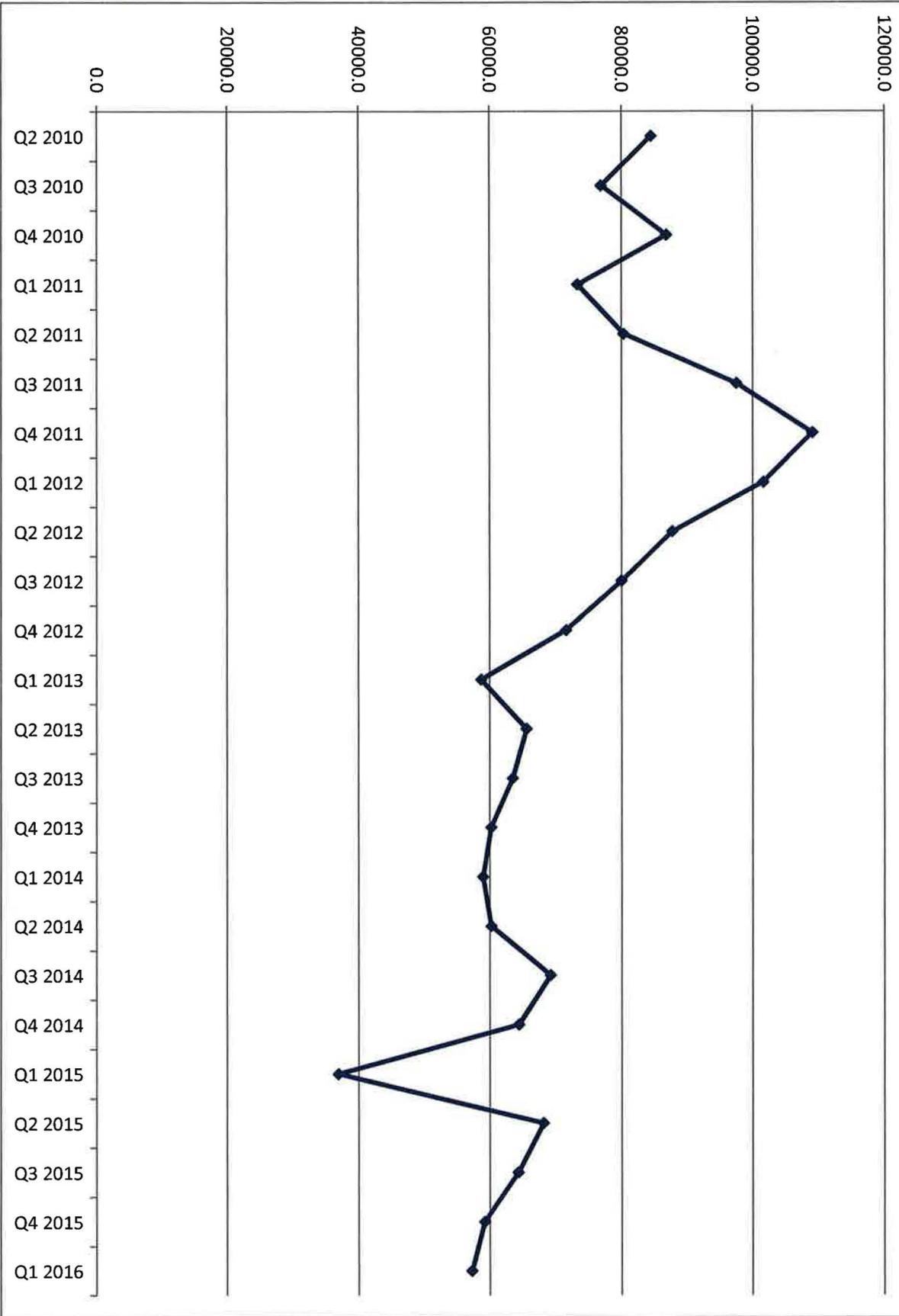
**TW4-01 Volume Pumped by Quarter (gal.)**



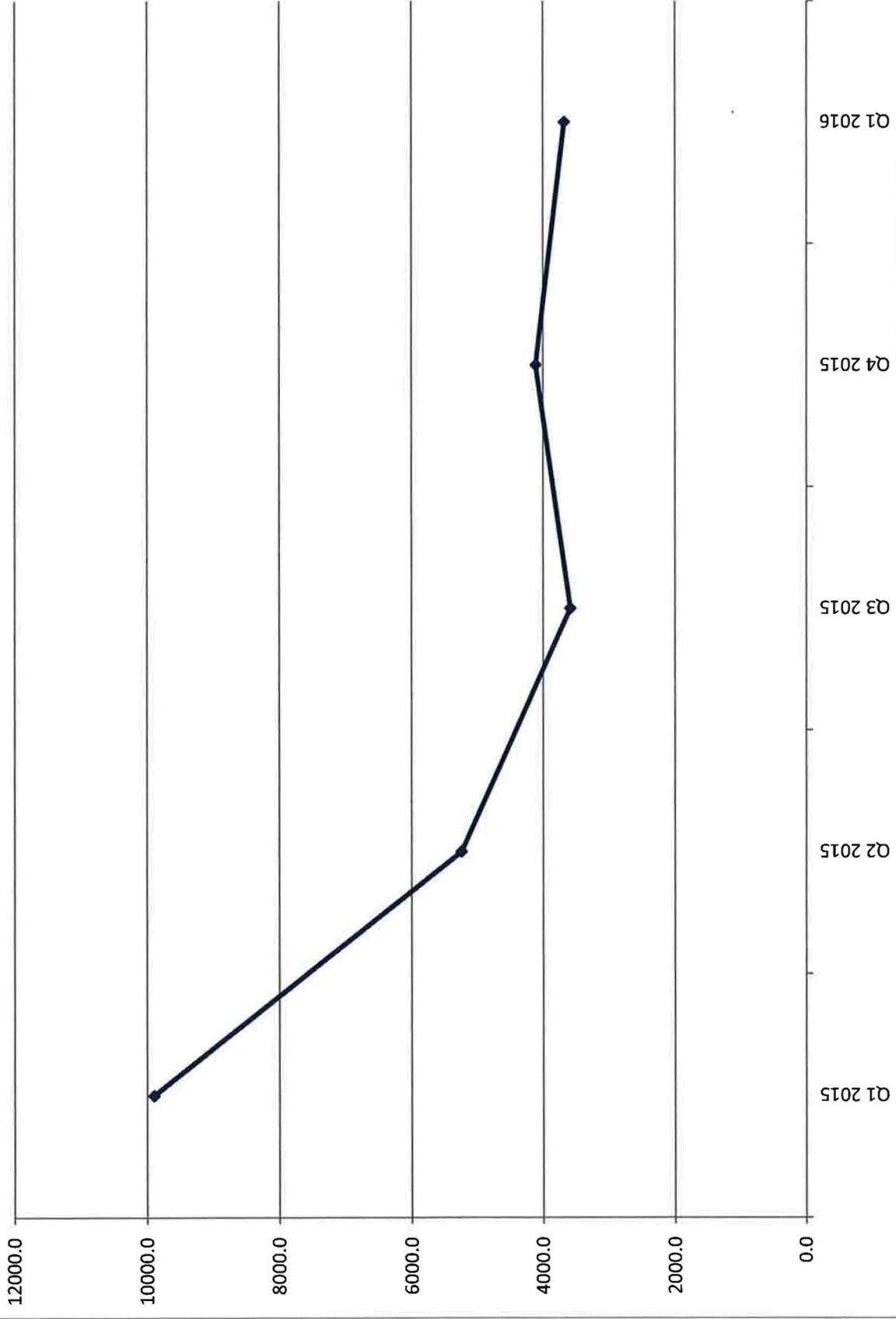
**TW4-02 Volume Pumped by Quarter (gal.)**



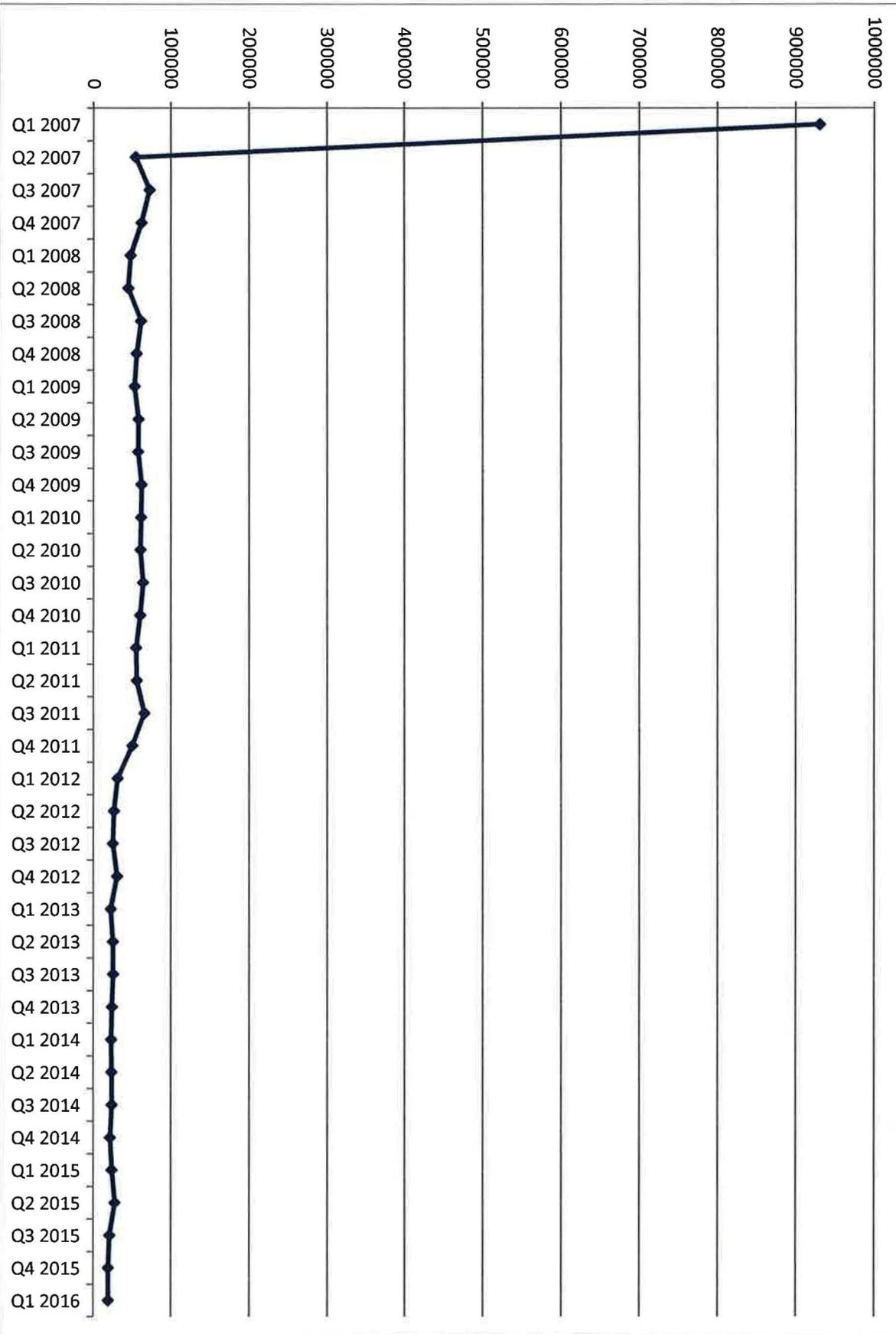
# TW4-04 Volume Pumped by Quarter (gal.)



**TW4-11 Volume Pumped by Quarter (gal.)**

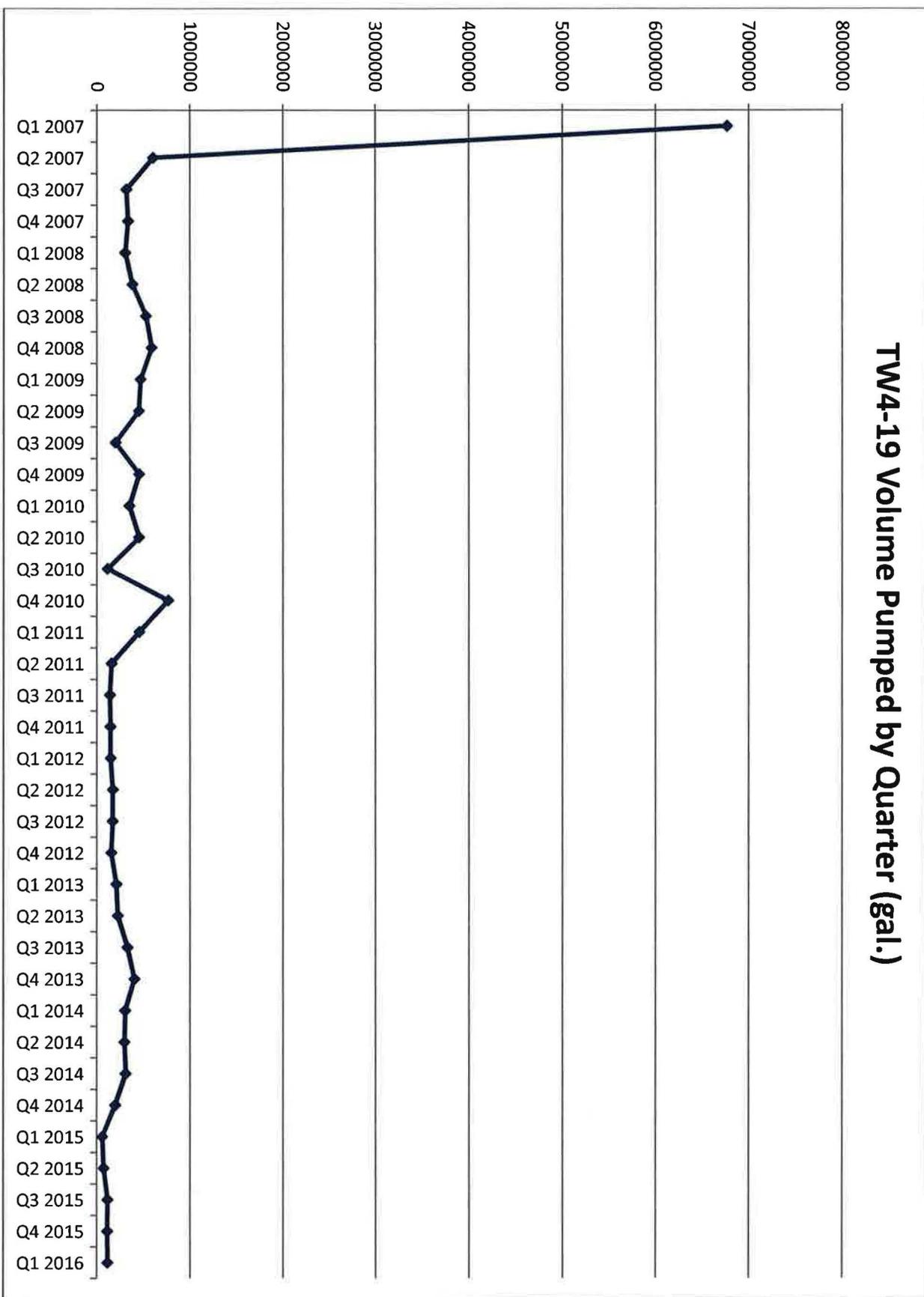


# MW-26 Volume Pumped by Quarter (gal.)

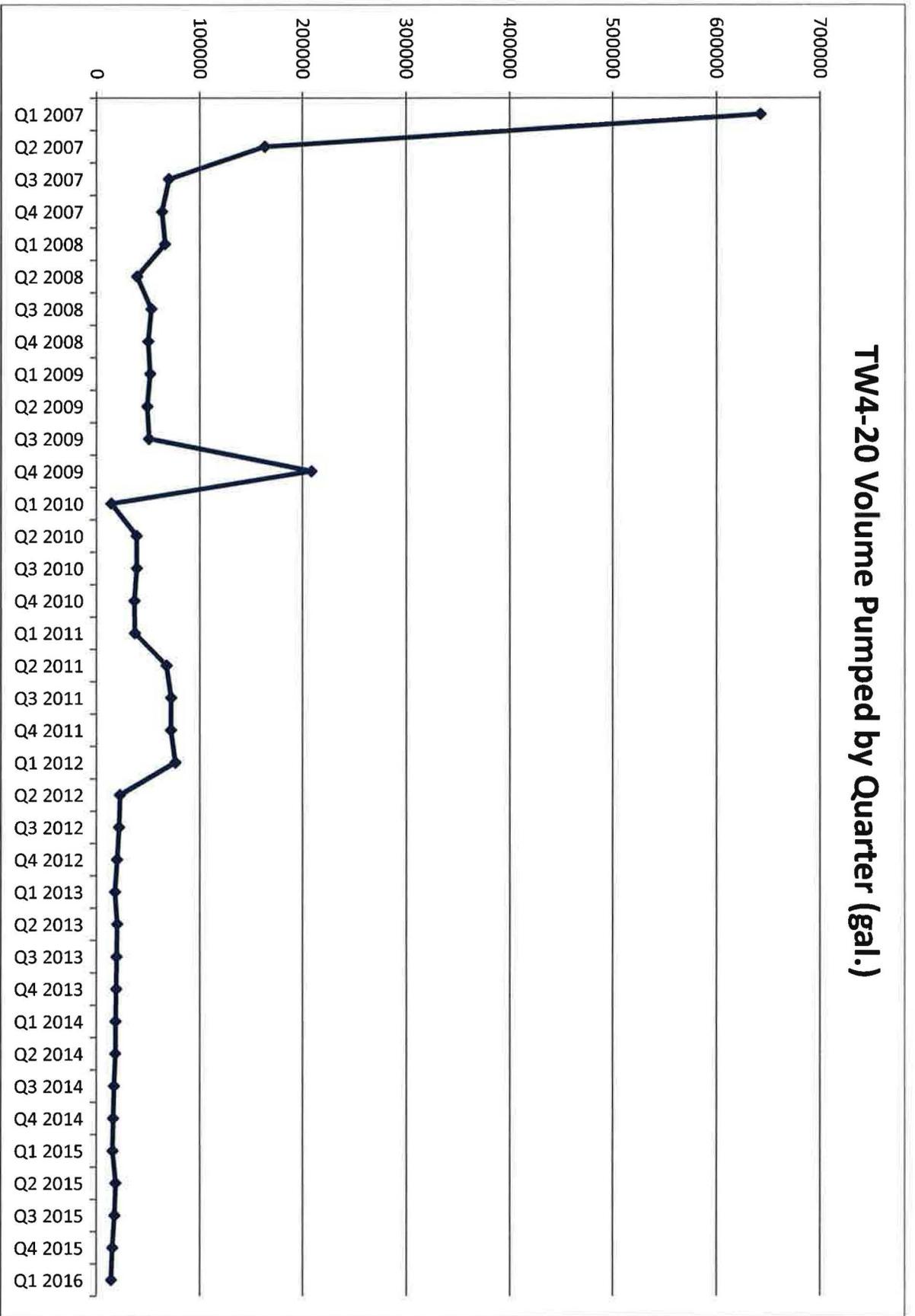


Q1 2007 represents the cumulative total prior to and including Q1 2007.

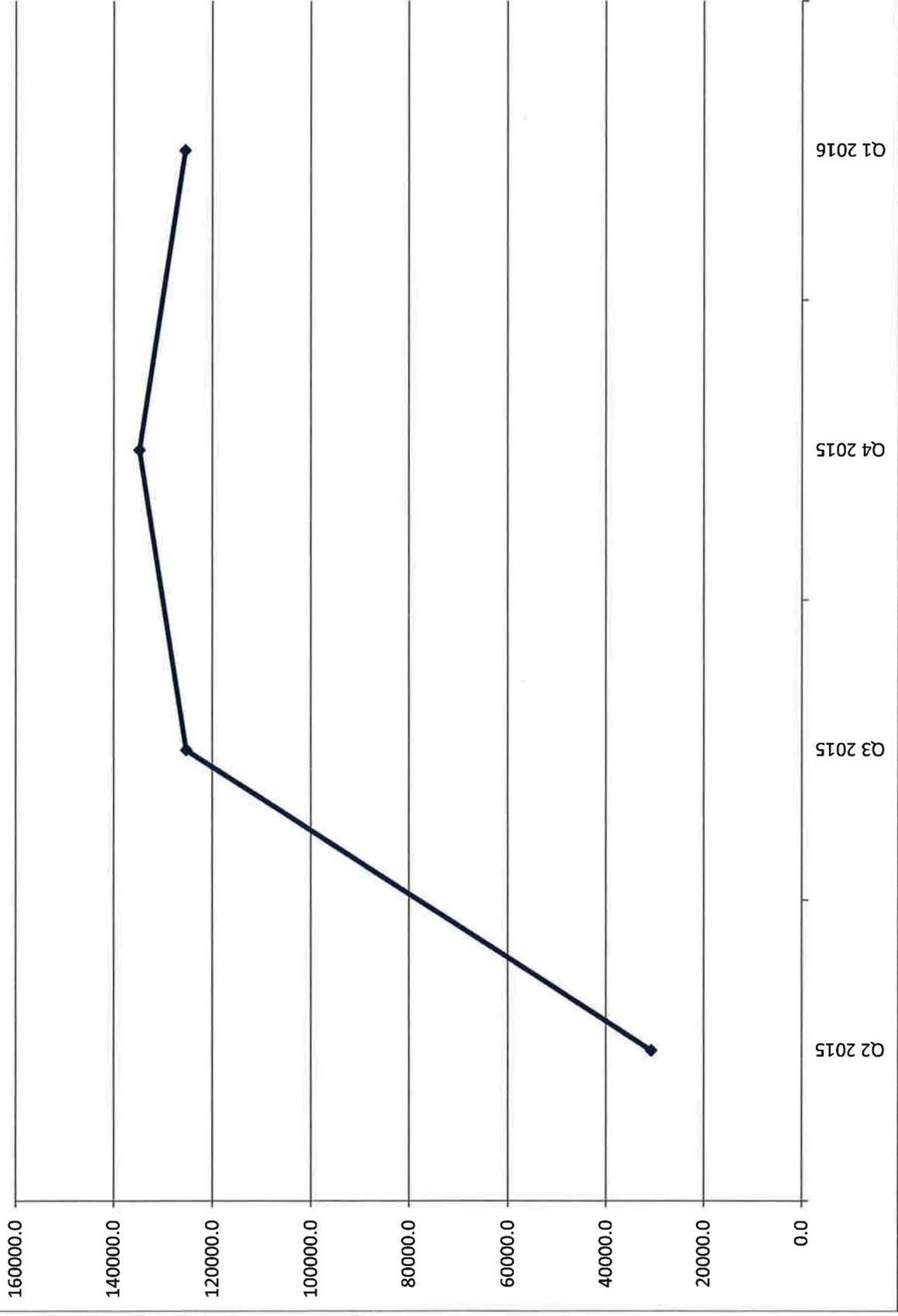
# TW4-19 Volume Pumped by Quarter (gal.)



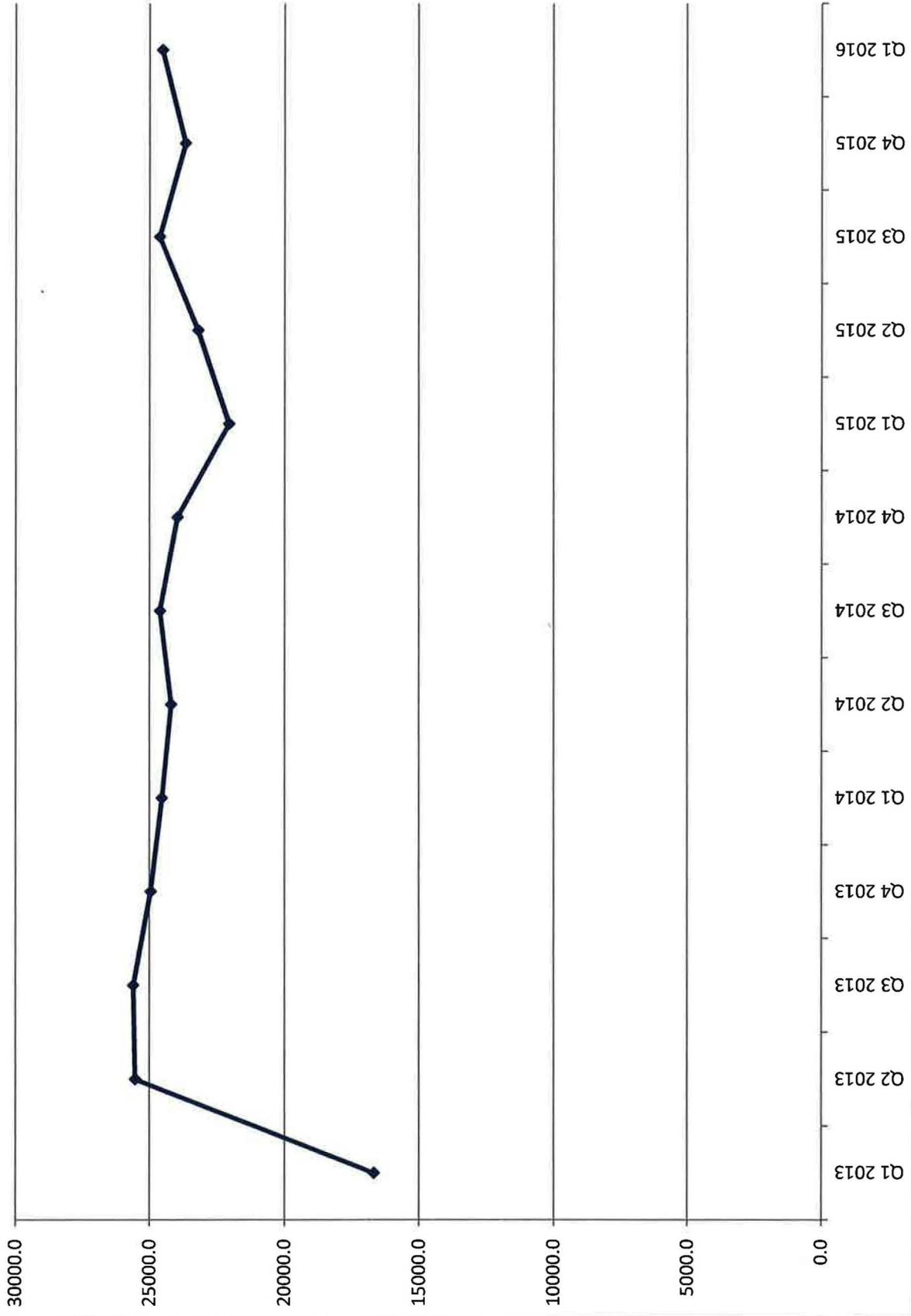
# TW4-20 Volume Pumped by Quarter (gal.)



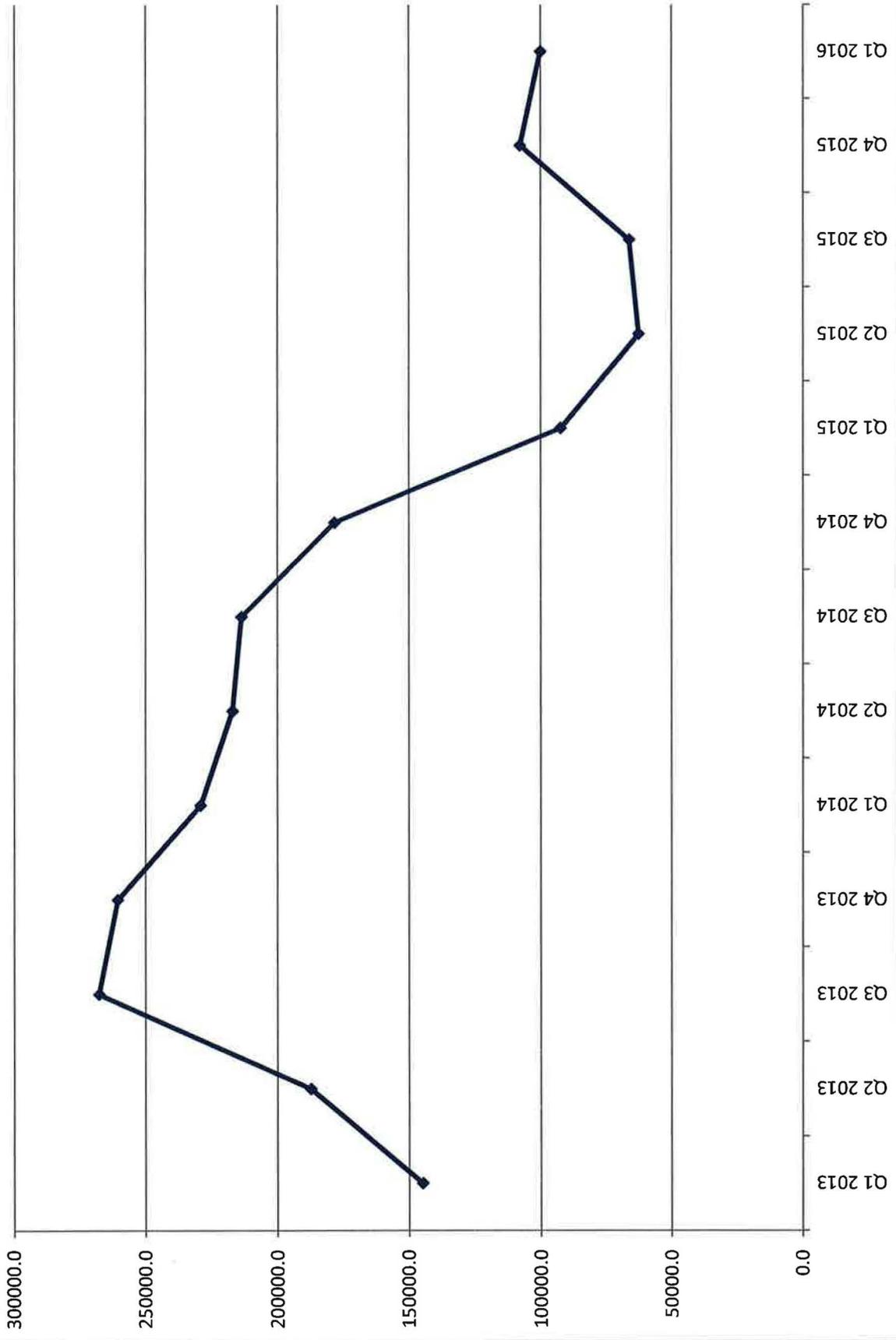
**TW4-21 Volume Pumped by Quarter (gal.)**



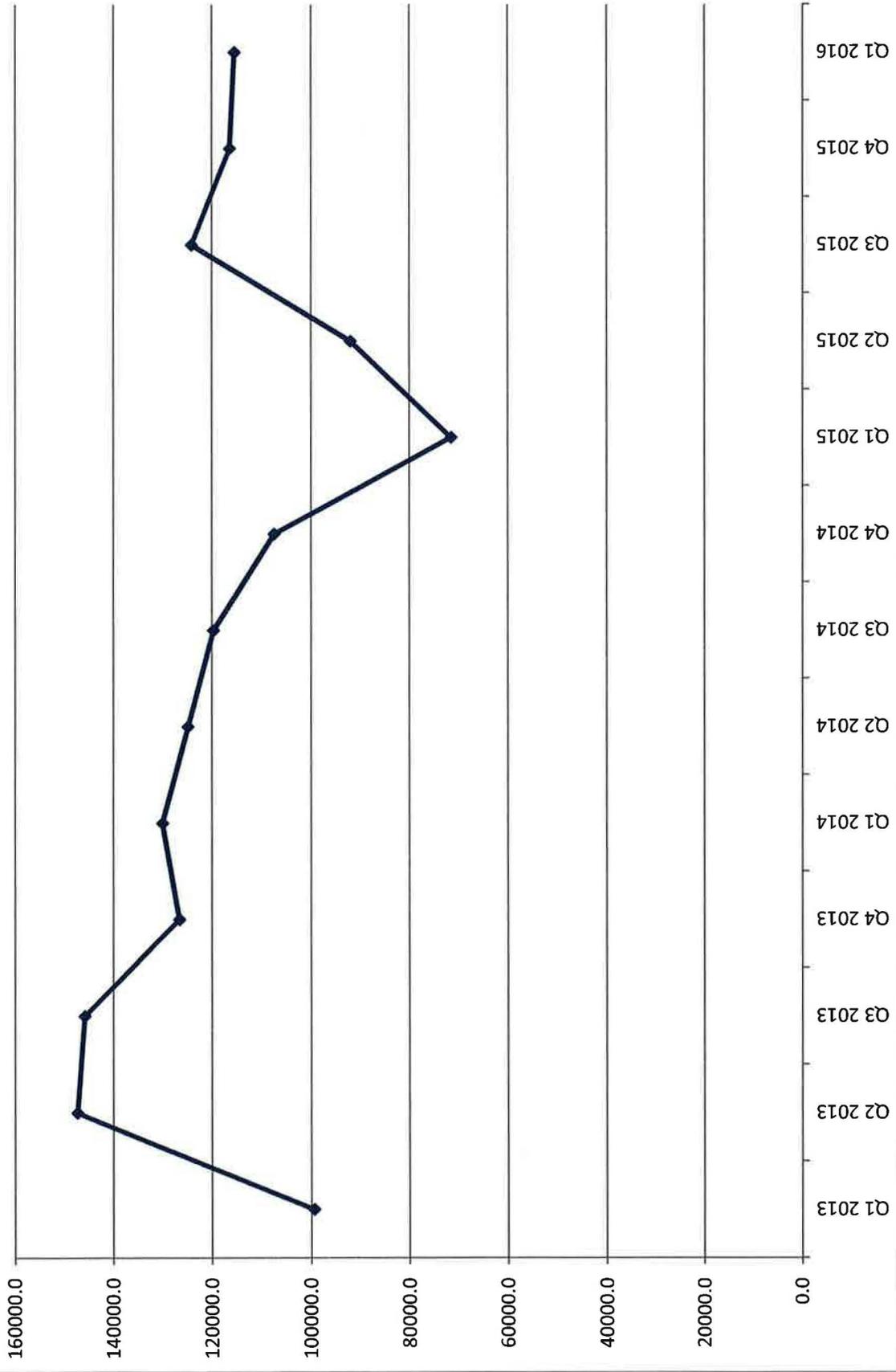
TW4-22 Volume Pumped by Quarter (gal.)



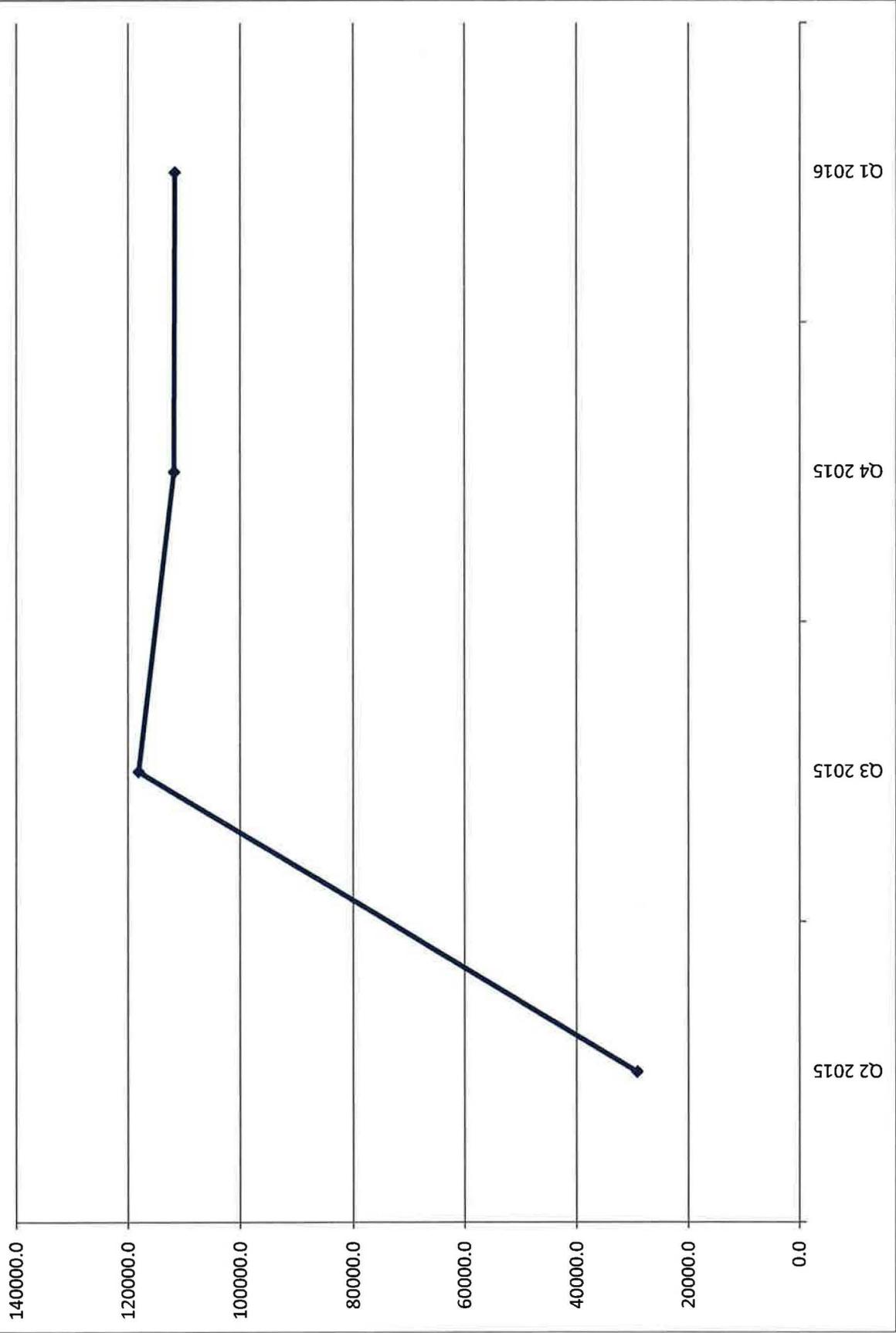
TW4-24 Volume Pumped by Quarter (gal.)



TW4-25 Volume Pumped by Quarter (gal.)



**TW4-37 Volume Pumped by Quarter (gal.)**



Tab H

Laboratory Analytical Reports



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-006C  
**Client Sample ID:** MW-04\_03092016  
**Collection Date:** 3/9/2016 1210h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1854h

**Units:** µg/L                      **Dilution Factor:** 20                      **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,240	~

Phone: (801) 263-8686

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,050	1,000	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,030	1,000	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	1,010	1,000	101	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Toll Free: (888) 263-8686

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**Analyzed:** 3/14/2016 1345h

**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	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.9	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-006  
**Client Sample ID:** MW-04\_03092016  
**Collection Date:** 3/9/2016 1210h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2122h	E300.0	10.0	<b>42.2</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1118h	E353.2	0.100	<b>5.15</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-004C  
**Client Sample ID:** TW4-01\_03092016  
**Collection Date:** 3/9/2016 1217h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1735h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

3440 South 700 West

Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	974	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,050	1,000	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,030	1,000	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	1,020	1,000	102	80-124	
Surr: Toluene-d8	2037-26-5	995	1,000	99.5	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

**Analyzed:** 3/14/2016 1305h

**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	52.4	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.2	50.00	96.4	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-004  
**Client Sample ID:** TW4-01\_03092016  
**Collection Date:** 3/9/2016 1217h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2048h	E300.0	10.0	<b>41.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/23/2016 1642h	E353.2	0.100	<b>0.148</b>	

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Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-007C  
**Client Sample ID:** TW4-02\_03092016  
**Collection Date:** 3/9/2016 1201h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1913h

**Units:** µg/L                      **Dilution Factor:** 20                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,970	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,050	1,000	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,030	1,000	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	1,000	1,000	100	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ ~ The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/14/2016 1404h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	1.20	
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	51.8	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.9	50.00	97.8	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	77-129	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-007  
**Client Sample ID:** TW4-02\_03092016  
**Collection Date:** 3/9/2016 1201h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2139h	E300.0	10.0	<b>43.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1119h	E353.2	0.100	<b>5.30</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-002C  
**Client Sample ID:** TW4-03\_03152016  
**Collection Date:** 3/15/2016 639h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1345h

**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	49.0	50.00	98.0	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	98.1	80-124	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-002  
**Client Sample ID:** TW4-03\_03152016  
**Collection Date:** 3/15/2016 639h  
**Received Date:** 3/18/2016 1040h

**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		3/23/2016 1309h	E300.0	10.0	<b>32.8</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1609h	E353.2	0.100	<b>5.83</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-001C  
**Client Sample ID:** TW4-03R\_03142016  
**Collection Date:** 3/14/2016 1329h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1325h

**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	48.2	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.3	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-001  
**Client Sample ID:** TW4-03R\_03142016  
**Collection Date:** 3/14/2016 1329h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/23/2016 2316h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1606h	E353.2	0.100	< 0.100	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-005C  
**Client Sample ID:** TW4-04\_03092016  
**Collection Date:** 3/9/2016 1225h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1834h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,190	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,050	1,000	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,030	1,000	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	1,010	1,000	101	80-124	
Surr: Toluene-d8	2037-26-5	997	1,000	99.7	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

**Analyzed:** 3/14/2016 1325h

**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	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.7	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-005  
**Client Sample ID:** TW4-04\_03092016  
**Collection Date:** 3/9/2016 1225h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2105h	E300.0	10.0	39.7	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1117h	E353.2	0.100	6.71	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-016C  
**Client Sample ID:** TW4-05\_03172016  
**Collection Date:** 3/17/2016 804h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1922h

**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	11.0	
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	50.3	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.2	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-016  
**Client Sample ID:** TW4-05\_03172016  
**Collection Date:** 3/17/2016 804h  
**Received Date:** 3/18/2016 1040h

**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		3/25/2016 123h	E300.0	10.0	<b>44.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1646h	E353.2	0.100	<b>10.2</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-003C  
**Client Sample ID:** TW4-06\_03222016  
**Collection Date:** 3/22/2016 851h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1633h

**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	834	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	482	500.0	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	526	500.0	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	510	500.0	102	80-124	
Surr: Toluene-d8	2037-26-5	519	500.0	104	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/23/2016 1340h

**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	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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	53.1	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-003  
**Client Sample ID:** TW4-06\_03222016  
**Collection Date:** 3/22/2016 851h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 931h	E300.0	10.0	<b>42.3</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1722h	E353.2	0.100	<b>6.79</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-001C  
**Client Sample ID:** TW4-06R\_03212016  
**Collection Date:** 3/21/2016 1034h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1301h

**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	48.2	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.3	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	51.9	50.00	104	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-001  
**Client Sample ID:** TW4-06R\_03212016  
**Collection Date:** 3/21/2016 1034h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 1112h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1719h	E353.2	0.100	< 0.100	'

*' - 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:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-004C  
**Client Sample ID:** TW4-07\_03222016  
**Collection Date:** 3/22/2016 858h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1652h

**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	834	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	509	500.0	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	519	500.0	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	501	500.0	100	80-124	
Surr: Toluene-d8	2037-26-5	508	500.0	102	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/23/2016 1400h

**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	50.0	50.00	99.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.6	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-004  
**Client Sample ID:** TW4-07\_03222016  
**Collection Date:** 3/22/2016 858h  
**Received Date:** 3/23/2016 930h

**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		3/25/2016 948h	E300.0	10.0	<b>42.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1723h	E353.2	0.100	<b>4.43</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-022C  
**Client Sample ID:** TW4-08\_03172016  
**Collection Date:** 3/17/2016 854h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1713h

**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	634	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	493	500.0	98.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	540	500.0	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	497	500.0	99.5	80-124	
Surr: Toluene-d8	2037-26-5	512	500.0	102	77-129	

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~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 3/18/2016 1530h

**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	47.8	50.00	95.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	80-124	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.5	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-022  
**Client Sample ID:** TW4-08\_03172016  
**Collection Date:** 3/17/2016 854h  
**Received Date:** 3/18/2016 1040h

**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		3/23/2016 2242h	E300.0	10.0	<b>54.2</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1703h	E353.2	0.100	<b>2.48</b>	

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Jose Rocha  
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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-018C  
**Client Sample ID:** TW4-09\_03172016  
**Collection Date:** 3/17/2016 822h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 2001h

**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	<b>74.3</b>	
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	50.5	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.7	50.00	97.4	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-018  
**Client Sample ID:** TW4-09\_03172016  
**Collection Date:** 3/17/2016 822h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 156h	E300.0	10.0	<b>33.6</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1648h	E353.2	0.100	<b>2.51</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-005C  
**Client Sample ID:** TW4-10\_03222016  
**Collection Date:** 3/22/2016 906h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1712h

**Units:** µg/L                      **Dilution Factor:** 20                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,430	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,020	1,000	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,050	1,000	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	1,000	1,000	100	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/23/2016 1420h

**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	49.9	50.00	99.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

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Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-005  
**Client Sample ID:** TW4-10\_03222016  
**Collection Date:** 3/22/2016 906h  
**Received Date:** 3/23/2016 930h

**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		3/25/2016 1005h	E300.0	10.0	<b>84.1</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1724h	E353.2	0.100	<b>17.3</b>	

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Jose Rocha

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-009C  
**Client Sample ID:** TW4-11\_03092016  
**Collection Date:** 3/9/2016 1153h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/15/2016 1415h

**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	2,660	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,480	2,500	99.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,520	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,430	2,500	97.1	80-124	
Surr: Toluene-d8	2037-26-5	2,470	2,500	98.9	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

**Analyzed:** 3/14/2016 1444h

**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	1.20	
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	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-009  
**Client Sample ID:** TW4-11\_03092016  
**Collection Date:** 3/9/2016 1153h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2212h	E300.0	10.0	<b>55.5</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1121h	E353.2	0.100	<b>7.13</b>	

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Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-003C  
**Client Sample ID:** TW4-12\_03152016  
**Collection Date:** 3/15/2016 652h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1404h

**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	48.3	50.00	96.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.4	50.00	94.8	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-003  
**Client Sample ID:** TW4-12\_03152016  
**Collection Date:** 3/15/2016 652h  
**Received Date:** 3/18/2016 1040h

## 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		3/23/2016 1400h	E300.0	10.0	<b>56.2</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1650h	E353.2	0.200	<b>34.8</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-006C  
**Client Sample ID:** TW4-13\_03162016  
**Collection Date:** 3/16/2016 642h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1523h

**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	49.6	50.00	99.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.7	50.00	97.3	80-124	
Surr: Toluene-d8	2037-26-5	50.8	50.00	102	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-006  
**Client Sample ID:** TW4-13\_03162016  
**Collection Date:** 3/16/2016 642h  
**Received Date:** 3/18/2016 1040h

### 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		3/23/2016 1450h	E300.0	10.0	<b>69.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1612h	E353.2	0.100	<b>7.97</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-012C  
**Client Sample ID:** TW4-14\_03162016  
**Collection Date:** 3/16/2016 729h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1803h

**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	<b>4.49</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	<b>2.18</b>	

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	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.6	50.00	95.3	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-012  
**Client Sample ID:** TW4-14\_03162016  
**Collection Date:** 3/16/2016 729h  
**Received Date:** 3/18/2016 1040h

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/24/2016 2308h	E300.0	10.0	<b>42.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1633h	E353.2	0.100	<b>2.94</b>	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-008  
**Client Sample ID:** MW-26\_03092016  
**Collection Date:** 3/9/2016 1044h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 2156h	E300.0	10.0	<b>68.3</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1120h	E353.2	0.100	<b>1.45</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-019C  
**Client Sample ID:** TW4-16\_03172016  
**Collection Date:** 3/17/2016 829h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 2021h

**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	<b>45.9</b>	
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	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.5	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-019  
**Client Sample ID:** TW4-16\_03172016  
**Collection Date:** 3/17/2016 829h  
**Received Date:** 3/18/2016 1040h

**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		3/25/2016 213h	E300.0	10.0	<b>56.5</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1649h	E353.2	0.100	<b>1.63</b>	

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Laboratory Director

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QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-002C  
**Client Sample ID:** MW-32\_03222016  
**Collection Date:** 3/22/2016 1230h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1321h

**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	51.0	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-002  
**Client Sample ID:** MW-32\_03222016  
**Collection Date:** 3/22/2016 1230h  
**Received Date:** 3/23/2016 930h

**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		3/25/2016 841h	E300.0	10.0	<b>36.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1722h	E353.2	0.100	< 0.100	

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Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-017C  
**Client Sample ID:** TW4-18\_03172016  
**Collection Date:** 3/17/2016 813h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1941h

**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	56.6	
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	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	98.0	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-017  
**Client Sample ID:** TW4-18\_03172016  
**Collection Date:** 3/17/2016 813h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 139h	E300.0	10.0	<b>40.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1647h	E353.2	0.100	<b>5.96</b>	

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Jose Rocha

QA Officer





## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-011  
**Client Sample ID:** TW4-19\_03092016  
**Collection Date:** 3/9/2016 1430h  
**Received Date:** 3/11/2016 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		3/16/2016 1907h	E300.0	100	276	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1123h	E353.2	0.100	15.7	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-012C  
**Client Sample ID:** TW4-20\_03092016  
**Collection Date:** 3/9/2016 1031h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/15/2016 1514h

**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	21,600	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,090	5,000	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,260	5,000	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	4,890	5,000	97.9	80-124	
Surr: Toluene-d8	2037-26-5	5,040	5,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 3/14/2016 1543h

**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	20.2	
Chloromethane	74-87-3	1.00	4.09	
Methylene chloride	75-09-2	1.00	1.16	

Jose Rocha  
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.3	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.3	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.2	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-012  
**Client Sample ID:** TW4-20\_03092016  
**Collection Date:** 3/9/2016 1031h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 1924h	E300.0	100	<b>293</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1124h	E353.2	0.100	<b>10.3</b>	

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QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-003C  
**Client Sample ID:** TW4-21\_03092016  
**Collection Date:** 3/9/2016 947h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1716h

**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	390	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	517	500.0	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	509	500.0	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	505	500.0	101	80-124	
Surr: Toluene-d8	2037-26-5	500	500.0	100	77-129	

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~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 3/14/2016 1245h

**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	52.8	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.3	50.00	94.6	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-003  
**Client Sample ID:** TW4-21\_03092016  
**Collection Date:** 3/9/2016 947h  
**Received Date:** 3/11/2016 1030h

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 1800h	E300.0	100	<b>452</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1109h	E353.2	0.100	<b>14.6</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-010C  
**Client Sample ID:** TW4-22\_03092016  
**Collection Date:** 3/9/2016 1018h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/15/2016 1434h

**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	6,070	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,520	2,500	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,530	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,480	2,500	99.4	80-124	
Surr: Toluene-d8	2037-26-5	2,530	2,500	101	77-129	

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~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 3/14/2016 1503h

**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	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-010  
**Client Sample ID:** TW4-22\_03092016  
**Collection Date:** 3/9/2016 1018h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 1850h	E300.0	100	<b>583</b>	
Nitrate/Nitrite (as N)	mg/L		3/21/2016 1539h	E353.2	0.500	<b>31.1</b>	

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Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-011C  
**Client Sample ID:** TW4-23\_03162016  
**Collection Date:** 3/16/2016 721h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1743h

**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	51.1	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	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	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-011  
**Client Sample ID:** TW4-23\_03162016  
**Collection Date:** 3/16/2016 721h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/24/2016 2251h	E300.0	10.0	<b>49.1</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1632h	E353.2	0.100	< 0.100	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-002C  
**Client Sample ID:** TW4-24\_03092016  
**Collection Date:** 3/9/2016 1009h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1226h

**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	22.8	
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	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.0	50.00	94.1	80-124	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.7	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-002  
**Client Sample ID:** TW4-24\_03092016  
**Collection Date:** 3/9/2016 1009h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/16/2016 1709h	E300.0	100	<b>989</b>	
Nitrate/Nitrite (as N)	mg/L		3/23/2016 1639h	E353.2	0.200	<b>29.1</b>	<sup>3</sup>

<sup>3</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-001C  
**Client Sample ID:** TW4-25\_03092016  
**Collection Date:** 3/9/2016 956h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/14/2016 1206h

**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	51.9	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.9	50.00	95.7	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-001  
**Client Sample ID:** TW4-25\_03092016  
**Collection Date:** 3/9/2016 956h  
**Received Date:** 3/11/2016 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		3/16/2016 2031h	E300.0	10.0	<b>62.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/12/2016 1103h	E353.2	0.100	<b>0.837</b>	'@

@ - 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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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-014C  
**Client Sample ID:** TW4-26\_03162016  
**Collection Date:** 3/16/2016 748h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1842h

**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	<b>1.80</b>	
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	50.2	50.00	100	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.7	50.00	95.4	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-014  
**Client Sample ID:** TW4-26\_03162016  
**Collection Date:** 3/16/2016 748h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 015h	E300.0	10.0	<b>13.7</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1635h	E353.2	0.100	<b>16.9</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-013C  
**Client Sample ID:** TW4-27\_03162016  
**Collection Date:** 3/16/2016 736h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1822h

**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	<b>2.11</b>			
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	99.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.9	50.00	95.9	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.5	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-013  
**Client Sample ID:** TW4-27\_03162016  
**Collection Date:** 3/16/2016 736h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/24/2016 2325h	E300.0	10.0	<b>28.0</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1634h	E353.2	0.500	<b>25.0</b>	

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QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-004C  
**Client Sample ID:** TW4-28\_03152016  
**Collection Date:** 3/15/2016 656h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1424h

**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	46.0	50.00	91.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	50.8	50.00	102	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-004  
**Client Sample ID:** TW4-28\_03152016  
**Collection Date:** 3/15/2016 656h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/23/2016 1416h	E300.0	10.0	<b>61.6</b>	.
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1651h	E353.2	0.200	<b>34.0</b>	

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Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-021C  
**Client Sample ID:** TW4-29\_03172016  
**Collection Date:** 3/17/2016 845h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1614h

**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	335	~

Phone: (801) 263-8686

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	482	500.0	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	553	500.0	111	80-152	
Surr: Dibromofluoromethane	1868-53-7	494	500.0	98.8	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:** 3/18/2016 1510h

**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	47.7	50.00	95.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.9	50.00	97.8	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.5	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-021  
**Client Sample ID:** TW4-29\_03172016  
**Collection Date:** 3/17/2016 845h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/23/2016 2225h	E300.0	10.0	<b>40.3</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1700h	E353.2	0.100	<b>2.92</b>	1

<sup>1</sup> - 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:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-015C  
**Client Sample ID:** TW4-30\_03172016  
**Collection Date:** 3/17/2016 750h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1902h

**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	<b>5.16</b>	
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	99.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.4	50.00	94.9	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-015  
**Client Sample ID:** TW4-30\_03172016  
**Collection Date:** 3/17/2016 750h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 106h	E300.0	10.0	<b>39.6</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1645h	E353.2	0.100	<b>2.74</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-008C  
**Client Sample ID:** TW4-31\_03162016  
**Collection Date:** 3/16/2016 657h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1643h

**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	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.9	50.00	95.7	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

Kyle F. Gross

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Jose Rocha

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-008  
**Client Sample ID:** TW4-31\_03162016  
**Collection Date:** 3/16/2016 657h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/24/2016 2127h	E300.0	10.0	<b>31.5</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1629h	E353.2	0.100	<b>1.84</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-005C  
**Client Sample ID:** TW4-32\_03152016  
**Collection Date:** 3/15/2016 705h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1444h

**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	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

Kyle F. Gross

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-005  
**Client Sample ID:** TW4-32\_03152016  
**Collection Date:** 3/15/2016 705h  
**Received Date:** 3/18/2016 1040h

**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		3/23/2016 1433h	E300.0	10.0	<b>64.2</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1652h	E353.2	0.100	<b>4.48</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-020C  
**Client Sample ID:** TW4-33\_03172016  
**Collection Date:** 3/17/2016 838h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1451h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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<b>Compound</b>	<b>CAS Number</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>122</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

<b>Surrogate</b>	<b>CAS</b>	<b>Result</b>	<b>Amount Spiked</b>	<b>% REC</b>	<b>Limits</b>	<b>Qual</b>
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.0	50.00	96.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.6	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.9	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-020  
**Client Sample ID:** TW4-33\_03172016  
**Collection Date:** 3/17/2016 838h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/23/2016 2135h	E300.0	10.0	<b>46.2</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1653h	E353.2	0.200	<b>2.13</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-009C  
**Client Sample ID:** TW4-34\_03162016  
**Collection Date:** 3/16/2016 705h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1703h

**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	51.1	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	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. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-009  
**Client Sample ID:** TW4-34\_03162016  
**Collection Date:** 3/16/2016 705h  
**Received Date:** 3/18/2016 1040h

## **Analytical Results**

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2016 2217h	E300.0	10.0	<b>17.3</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1630h	E353.2	0.100	<b>0.925</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-010C  
**Client Sample ID:** TW4-35\_03162016  
**Collection Date:** 3/16/2016 713h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1723h

**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	50.4	50.00	101	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.1	50.00	96.1	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

Kyle F. Gross

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-010  
**Client Sample ID:** TW4-35\_03162016  
**Collection Date:** 3/16/2016 713h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/24/2016 2234h	E300.0	10.0	<b>35.4</b>	
Nitrate/Nitrite (as N)	mg/L		4/7/2016 1529h	E353.2	0.100	<b>0.521</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-007C  
**Client Sample ID:** TW4-36\_03162016  
**Collection Date:** 3/16/2016 649h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1543h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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<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	49.8	50.00	99.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-007  
**Client Sample ID:** TW4-36\_03162016  
**Collection Date:** 3/16/2016 649h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2016 1507h	E300.0	10.0	67.1	
Nitrate/Nitrite (as N)	mg/L		4/7/2016 1527h	E353.2	0.100	< 0.100	†

<sup>†</sup> - 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:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-013C  
**Client Sample ID:** TW4-37\_03092016  
**Collection Date:** 3/9/2016 1025h  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/15/2016 1533h

**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	17,500	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,080	5,000	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,030	5,000	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	4,880	5,000	97.5	80-124	
Surr: Toluene-d8	2037-26-5	5,000	5,000	99.9	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 3/14/2016 1602h

**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	15.8	
Chloromethane	74-87-3	1.00	3.57	
Methylene chloride	75-09-2	1.00	1.34	

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	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-013  
**Client Sample ID:** TW4-37\_03092016  
**Collection Date:** 3/9/2016 1025h  
**Received Date:** 3/11/2016 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		3/16/2016 1941h	E300.0	100	<b>332</b>	
Nitrate/Nitrite (as N)	mg/L		3/23/2016 1643h	E353.2	0.200	<b>28.4</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-006C  
**Client Sample ID:** TW4-60\_03222016  
**Collection Date:** 3/22/2016 1500h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1439h

**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	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	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	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-006  
**Client Sample ID:** TW4-60\_03222016  
**Collection Date:** 3/22/2016 1500h  
**Received Date:** 3/23/2016 930h

**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		3/25/2016 1129h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1733h	E353.2	0.100	< 0.100	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-024C  
**Client Sample ID:** TW4-65\_03152016  
**Collection Date:** 3/15/2016 656h  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1550h

**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	48.3	50.00	96.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.7	80-124	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-024  
**Client Sample ID:** TW4-65\_03152016  
**Collection Date:** 3/15/2016 656h  
**Received Date:** 3/18/2016 1040h

## 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		3/23/2016 2259h	E300.0	10.0	<b>61.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1735h	E353.2	0.200	<b>32.6</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-007C  
**Client Sample ID:** TW4-70\_03222016  
**Collection Date:** 3/22/2016 1230h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 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	50.1	50.00	100	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.8	50.00	97.5	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.5	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-007  
**Client Sample ID:** TW4-70\_03222016  
**Collection Date:** 3/22/2016 1230h  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		3/25/2016 1022h	E300.0	10.0	<b>36.4</b>	
Nitrate/Nitrite (as N)	mg/L		3/24/2016 1734h	E353.2	0.100	<b>0.119</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603479-008A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 3/21/2016  
**Received Date:** 3/23/2016 930h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/23/2016 1519h

**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	49.9	50.00	99.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.3	50.00	98.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.3	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603400-023A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 3/14/2016  
**Received Date:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 3/18/2016 1431h

**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	47.6	50.00	95.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.9	50.00	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Sample ID:** 1603259-014A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 3/9/2016  
**Received Date:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

VOAs by GC/MS Method 8260C/5030C

## Analytical Results

**Analyzed:** 3/14/2016 1146h

**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	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 South Hwy 191  
Blanding, UT 84511  
TEL: (303) 389-4134

RE: 1st Quarter Chloroform 2016

Dear Garrin Palmer:

Lab Set ID: 1603259

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 3/11/2016 for the analyses presented in the following report.

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

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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:

<b>Jose G. Rocha</b>	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: 2016.03.28 13:36:58 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603259  
**Date Received:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603259-001A	TW4-25_03092016	3/9/2016 956h	Aqueous	Anions, E300.0
1603259-001B	TW4-25_03092016	3/9/2016 956h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-001C	TW4-25_03092016	3/9/2016 956h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-002A	TW4-24_03092016	3/9/2016 1009h	Aqueous	Anions, E300.0
1603259-002B	TW4-24_03092016	3/9/2016 1009h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-002C	TW4-24_03092016	3/9/2016 1009h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-003A	TW4-21_03092016	3/9/2016 947h	Aqueous	Anions, E300.0
1603259-003B	TW4-21_03092016	3/9/2016 947h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-003C	TW4-21_03092016	3/9/2016 947h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-004A	TW4-01_03092016	3/9/2016 1217h	Aqueous	Anions, E300.0
1603259-004B	TW4-01_03092016	3/9/2016 1217h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-004C	TW4-01_03092016	3/9/2016 1217h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-005A	TW4-04_03092016	3/9/2016 1225h	Aqueous	Anions, E300.0
1603259-005B	TW4-04_03092016	3/9/2016 1225h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-005C	TW4-04_03092016	3/9/2016 1225h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-006A	MW-04_03092016	3/9/2016 1210h	Aqueous	Anions, E300.0
1603259-006B	MW-04_03092016	3/9/2016 1210h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-006C	MW-04_03092016	3/9/2016 1210h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-007A	TW4-02_03092016	3/9/2016 1201h	Aqueous	Anions, E300.0
1603259-007B	TW4-02_03092016	3/9/2016 1201h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-007C	TW4-02_03092016	3/9/2016 1201h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-008A	MW-26_03092016	3/9/2016 1044h	Aqueous	Anions, E300.0
1603259-008B	MW-26_03092016	3/9/2016 1044h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-008C	MW-26_03092016	3/9/2016 1044h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-009A	TW4-11_03092016	3/9/2016 1153h	Aqueous	Anions, E300.0
1603259-009B	TW4-11_03092016	3/9/2016 1153h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-009C	TW4-11_03092016	3/9/2016 1153h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-010A	TW4-22_03092016	3/9/2016 1018h	Aqueous	Anions, E300.0
1603259-010B	TW4-22_03092016	3/9/2016 1018h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603259  
**Date Received:** 3/11/2016 1030h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603259-010C	TW4-22_03092016	3/9/2016 1018h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-011A	TW4-19_03092016	3/9/2016 1430h	Aqueous	Anions, E300.0
1603259-011B	TW4-19_03092016	3/9/2016 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-011C	TW4-19_03092016	3/9/2016 1430h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-012A	TW4-20_03092016	3/9/2016 1031h	Aqueous	Anions, E300.0
1603259-012B	TW4-20_03092016	3/9/2016 1031h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-012C	TW4-20_03092016	3/9/2016 1031h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-013A	TW4-37_03092016	3/9/2016 1025h	Aqueous	Anions, E300.0
1603259-013B	TW4-37_03092016	3/9/2016 1025h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603259-013C	TW4-37_03092016	3/9/2016 1025h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603259-014A	Trip Blank	3/9/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Jose Rocha  
QA Officer



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603259

3440 South 700 West  
Salt Lake City, UT 84119

## Sample Receipt Information:

**Date of Receipt:** 3/11/2016  
**Date of Collection:** 3/9/2016  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

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

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

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

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

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

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

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

Sample ID	Analyte	QC	Explanation
1603259-001B	Nitrate/Nitrite	MS/RPD	Sample matrix interference and suspected sample non-homogeneity or matrix interference.
1603259-002B	Nitrate/Nitrite	MS/MSD	Suspected sample non-homogeneity.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603259

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 3/11/2016  
**Date of Collection:** 3/9/2016  
**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:** 1603259

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS-R88289</b> Date Analyzed: 03/16/2016 957h													
Test Code: 300.0-W													
Chloride	4.80	mg/L	E300.0	0.00516	0.100	5.000	0	96.0	90 - 110				
<b>Lab Sample ID: LCS-R88185</b> Date Analyzed: 03/12/2016 1102h													
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				
<b>Lab Sample ID: LCS-R88439</b> Date Analyzed: 03/21/2016 1454h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.916	mg/L	E353.2	0.00833	0.0100	1.000	0	91.6	90 - 110				
<b>Lab Sample ID: LCS-R88521</b> Date Analyzed: 03/23/2016 1629h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.901	mg/L	E353.2	0.00833	0.0100	1.000	0	90.1	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:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID:</b> MB-R88289	Date Analyzed: 03/16/2016 940h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
<b>Lab Sample ID:</b> MB-R88185	Date Analyzed: 03/12/2016 1101h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID:</b> MB-R88439	Date Analyzed: 03/21/2016 1453h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID:</b> MB-R88521	Date Analyzed: 03/23/2016 1628h												
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:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603259-002AMS</b> Date Analyzed: 03/16/2016 1726h													
Test Code: 300.0-W													
Chloride	2,000	mg/L	E300.0	1.03	20.0	1,000	989	102	90 - 110				
<b>Lab Sample ID: 1603259-003AMS</b> Date Analyzed: 03/16/2016 1816h													
Test Code: 300.0-W													
Chloride	1,440	mg/L	E300.0	1.03	20.0	1,000	452	99.2	90 - 110				
<b>Lab Sample ID: 1603259-001BMS</b> Date Analyzed: 03/12/2016 1104h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.7	mg/L	E353.2	0.0833	0.100	10.00	0.837	119	90 - 110				1
<b>Lab Sample ID: 1603290-001CMS</b> Date Analyzed: 03/21/2016 1535h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.6	mg/L	E353.2	0.0833	0.100	10.00	1.48	141	90 - 110				1
<b>Lab Sample ID: 1603259-002BMS</b> Date Analyzed: 03/23/2016 1640h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	73.7	mg/L	E353.2	0.417	0.500	50.00	29.1	89.2	90 - 110				3

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

<sup>3</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. 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:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603259-002AMSD</b> Date Analyzed: 03/16/2016 1743h													
Test Code: 300.0-W													
Chloride	2,010	mg/L	E300.0	1.03	20.0	1,000	989	102	90 - 110	2000	0.241	20	
<b>Lab Sample ID: 1603259-003AMSD</b> Date Analyzed: 03/16/2016 1833h													
Test Code: 300.0-W													
Chloride	1,450	mg/L	E300.0	1.03	20.0	1,000	452	100	90 - 110	1440	0.669	20	
<b>Lab Sample ID: 1603259-001BMSD</b> Date Analyzed: 03/12/2016 1105h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.3	mg/L	E353.2	0.0833	0.100	10.00	0.837	105	90 - 110	12.7	11.5	10	@
<b>Lab Sample ID: 1603290-001CMSD</b> Date Analyzed: 03/21/2016 1536h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.3	mg/L	E353.2	0.0833	0.100	10.00	1.48	128	90 - 110	15.6	8.83	10	<sup>1</sup>
<b>Lab Sample ID: 1603259-002BMSD</b> Date Analyzed: 03/23/2016 1641h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	73.2	mg/L	E353.2	0.417	0.500	50.00	29.1	88.1	90 - 110	73.7	0.735	10	<sup>3</sup>

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

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

<sup>3</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. 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:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS VOC-2 031416A</b> Date Analyzed: 03/14/2016 1048h													
Test Code: 8260-W-DEN100													
Chloroform	19.6	µg/L	SW8260C	0.153	1.00	20.00	0	98.0	85 - 124				
Methylene chloride	20.0	µg/L	SW8260C	0.172	1.00	20.00	0	100	81 - 135				
Surr: 1,2-Dichloroethane-d4	49.7	µg/L	SW8260C			50.00		99.5	80 - 122				
Surr: 4-Bromofluorobenzene	48.4	µg/L	SW8260C			50.00		96.9	85 - 121				
Surr: Dibromofluoromethane	48.4	µg/L	SW8260C			50.00		96.9	80 - 116				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.4	81 - 123				
<b>Lab Sample ID: LCS VOC-2 031516A</b> Date Analyzed: 03/15/2016 1119h													
Test Code: 8260-W-DEN100													
Chloroform	20.6	µg/L	SW8260C	0.153	1.00	20.00	0	103	85 - 124				
Surr: 1,2-Dichloroethane-d4	52.9	µg/L	SW8260C			50.00		106	80 - 122				
Surr: 4-Bromofluorobenzene	50.2	µg/L	SW8260C			50.00		100	85 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	80 - 116				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.2	81 - 123				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: MB VOC-2 031416A</b> Date Analyzed: 03/14/2016 1127h													
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	51.7	µg/L	SW8260C			50.00		103	80 - 122				
Surr: 4-Bromofluorobenzene	51.5	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	48.6	µg/L	SW8260C			50.00		97.2	80 - 116				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	81 - 123				
<b>Lab Sample ID: MB VOC-2 031516A</b> Date Analyzed: 03/15/2016 1158h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	80 - 122				
Surr: 4-Bromofluorobenzene	52.2	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	50.9	µg/L	SW8260C			50.00		102	80 - 116				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	81 - 123				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1603259

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603259-004CMS</b>		Date Analyzed: 03/14/2016 1755h											
Test Code: 8260-W-DEN100													
Chloroform	1,380	µg/L	SW8260C	3.06	20.0	400.0	974	102	50 - 146				
Methylene chloride	442	µg/L	SW8260C	3.44	20.0	400.0	0	110	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,050	µg/L	SW8260C			1,000		105	72 - 151				
Surr: 4-Bromofluorobenzene	977	µg/L	SW8260C			1,000		97.7	80 - 152				
Surr: Dibromofluoromethane	1,020	µg/L	SW8260C			1,000		102	80 - 124				
Surr: Toluene-d8	982	µg/L	SW8260C			1,000		98.2	77 - 129				
<b>Lab Sample ID: 1603259-013CMS</b>		Date Analyzed: 03/15/2016 1553h											
Test Code: 8260-W-DEN100													
Chloroform	19,200	µg/L	SW8260C	15.3	100	2,000	17500	80.8	50 - 146				
Surr: 1,2-Dichloroethane-d4	5,000	µg/L	SW8260C			5,000		99.9	72 - 151				
Surr: 4-Bromofluorobenzene	4,910	µg/L	SW8260C			5,000		98.3	80 - 152				
Surr: Dibromofluoromethane	4,860	µg/L	SW8260C			5,000		97.2	80 - 124				
Surr: Toluene-d8	4,810	µg/L	SW8260C			5,000		96.2	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603259  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603259-004CMSD</b> Date Analyzed: 03/14/2016 1815h													
Test Code: 8260-W-DEN100													
Chloroform	1,320	µg/L	SW8260C	3.06	20.0	400.0	974	85.8	50 - 146	1380	4.73	25	
Methylene chloride	430	µg/L	SW8260C	3.44	20.0	400.0	0	107	30 - 192	442	2.80	25	
Surr: 1,2-Dichloroethane-d4	1,040	µg/L	SW8260C			1,000		104	72 - 151				
Surr: 4-Bromofluorobenzene	953	µg/L	SW8260C			1,000		95.3	80 - 152				
Surr: Dibromofluoromethane	1,010	µg/L	SW8260C			1,000		101	80 - 124				
Surr: Toluene-d8	952	µg/L	SW8260C			1,000		95.2	77 - 129				
<b>Lab Sample ID: 1603259-013CMSD</b> Date Analyzed: 03/15/2016 1612h													
Test Code: 8260-W-DEN100													
Chloroform	19,900	µg/L	SW8260C	15.3	100	2,000	17500	118	50 - 146	19200	3.76	25	
Surr: 1,2-Dichloroethane-d4	5,040	µg/L	SW8260C			5,000		101	72 - 151				
Surr: 4-Bromofluorobenzene	4,900	µg/L	SW8260C			5,000		97.9	80 - 152				
Surr: Dibromofluoromethane	4,920	µg/L	SW8260C			5,000		98.4	80 - 124				
Surr: Toluene-d8	4,920	µg/L	SW8260C			5,000		98.5	77 - 129				

## WORK ORDER Summary

Work Order: **1603259** Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 3/22/2016

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2016

**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 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.; 

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603259-001A	TW4-25_03092016	3/9/2016 0956h	3/11/2016 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc		1
1603259-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1603259-001C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge		3
1603259-002A	TW4-24_03092016	3/9/2016 1009h	3/11/2016 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc		1
1603259-002B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1603259-002C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge		3
1603259-003A	TW4-21_03092016	3/9/2016 0947h	3/11/2016 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc		1
1603259-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1603259-003C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge		3
1603259-004A	TW4-01_03092016	3/9/2016 1217h	3/11/2016 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc		1
1603259-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1603259-004C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge		3
1603259-005A	TW4-04_03092016	3/9/2016 1225h	3/11/2016 1030h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc		1
1603259-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1603259-005C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge		3

# WORK ORDER Summary

Work Order: **1603259** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 3/22/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1603259-006A	MW-04_03092016	3/9/2016 1210h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-006B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-006C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-007A	TW4-02_03092016	3/9/2016 1201h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-007B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-007C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-008A	MW-26_03092016	3/9/2016 1044h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-008B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-008C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-009A	TW4-11_03092016	3/9/2016 1153h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-009B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-009C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-010A	TW4-22_03092016	3/9/2016 1018h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-010B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-010C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-011A	TW4-19_03092016	3/9/2016 1430h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603259-011B				NO2/NO3-W-353.2			df - no2/no3
				1 SEL Analytes: NO3NO2N			
1603259-011C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603259-012A	TW4-20_03092016	3/9/2016 1031h	3/11/2016 1030h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			

# WORK ORDER Summary

Work Order: **1603259** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 3/22/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603259-012B	TW4-20_03092016	3/9/2016 1031h	3/11/2016 1030h	NO2/NO3-W-353.2	Aqueous		df - no2/no3	1
				<i>1 SEL Analytes: NO3NO2N</i>				
1603259-012C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1603259-013A	TW4-37_03092016	3/9/2016 1025h	3/11/2016 1030h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1603259-013B				NO2/NO3-W-353.2			df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1603259-013C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1603259-014A	Trip Blank	3/9/2016	3/11/2016 1030h	8260-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				



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Analytical Laboratories**

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Phone # (801) 263-8686 Toll Free # (888) 263-8686

Fax # (801) 263-8687 Email awal@awa-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.

1603259  
AWAL Lab Sample Set #  
Page 1 of 2

QC Level:		Turn Around Time:		Due Date:	
3		Standard		3/22/16	
X Include EDD: <b>LOCUS UPLOAD</b> <b>EXCEL</b> Field Filtered For:		For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:		Known Hazards & Sample Comments	
# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	
Sample ID:	Date Sampled	Time Sampled			
1 TW4-25_03092016	3/9/2016	956	5	W	X X X
2 TW4-24_03092016	3/9/2016	1009	5	W	X X X
3 TW4-21_03092016	3/9/2016	947	5	W	X X X
4 TW4-01_03092016	3/9/2016	1217	5	W	X X X
5 TW4-04_03092016	3/9/2016	1225	5	W	X X X
6 MW-04_03092016	3/9/2016	1210	5	W	X X X
7 TW4-02_03092016	3/9/2016	1201	5	W	X X X
8 MW-26_03092016	3/9/2016	1044	5	W	X X X
9 TW4-11_03092016	3/9/2016	1153	5	W	X X X
10 TW4-22_03092016	3/9/2016	1018	5	W	X X X
TW4-19_03092016	3/9/2016	1430	5	W	X X X
11 TW4-20_03092016	3/9/2016	1031	5	W	X X X
12 TW4-37_03092016	3/9/2016	1025	5	W	X X X

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;**  
**dturk@energyfuels.com**  
 Project Name: **TANNER HOLLIDAY**  
 Project #: **1ST QUARTER CHLOROFORM 2016**  
 PO #:  
 Sampler Name: **TANNER HOLLIDAY**

Laboratory Use Only

Samples Were: **WPS**

- Shipped or hand delivered
- Ambient or Chilled
- Temperature: **3.6 °C**
- Received Broken/Leaking (Improperly Sealed)  
Y N
- Properly Preserved  
Y N  
Checked at bench  
Y N
- Received Within Holding Times  
Y N

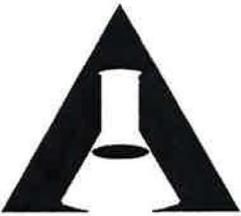
COC Taps Was:

- Present on Outer Package  
Y N NA
- Unbroken on Outer Package  
Y N NA
- Present on Sample  
Y N NA
- Unbroken on Sample  
Y N NA

Discrepancies Between Sample Labels and COC Record?  
Y N

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 3/10/2016 Time: 1300	Received by: Signature: <i>Elaine Hayes</i>	Date: 3-11-16 Time: 1030
Print Name: TANNER HOLLIDAY		Print Name: Elaine Hayes	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:		Print Name:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:		Print Name:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:		Print Name:	

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



**American West  
Analytical Laboratories**

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**CHAIN OF CUSTODY**

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1643259  
AWAL Lab Sample Set #  
Page 2 of 2

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; KWeincl@energyfuels.com; dturk@energyfuels.com**  
Project Name: **TANNER HOLLIDAY**  
Project #: **1ST QUARTER CHLOROFORM 2016**  
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	Temperature
1 TRIP BLANK	3/9/2016		3	W			X		Y	3.6 °C
2 TEMP BLANK	3/10/2016		1	W					Y	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

X Include EDD:  
**LOCUS UPLOAD**  
**EXCEL**  
Field Filtered For:

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

Samples Were:  
2 Ambient or Chilled  
3 Temperature 3.6 °C  
4 Received Broken/Leaking (Improperly Sealed)  
5 Properly Preserved  
6 Received Within Holding Times

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

Discrepancies Between Sample Labels and COC Record?

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 3/10/2016	Received by: Signature <i>Elaine Haywood</i>	Date: 3-11-16
Print Name: TANNER HOLLIDAY	Time: 1300	Print Name: Elaine Haywood	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.

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO <sub>4</sub> E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
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
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 µg/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 µg/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					
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>																		
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- 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 South Hwy 191  
Blanding, UT 84511  
TEL: (303) 389-4134

RE: 1st Quarter Chloroform 2016

Dear Garrin Palmer:

Lab Set ID: 1603400

3440 South 700 West

Salt Lake City, UT 84119

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 received sample(s) on 3/18/2016 for the analyses presented in the following report.

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

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

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

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

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: 2016.04.11 14:20:14  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603400  
**Date Received:** 3/18/2016 1040h

**Contact:** Garrin Palmer

3440 South 700 West  
 Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603400-001A	TW4-03R_03142016	3/14/2016 1329h	Aqueous	Anions, E300.0
1603400-001B	TW4-03R_03142016	3/14/2016 1329h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-001C	TW4-03R_03142016	3/14/2016 1329h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-002A	TW4-03_03152016	3/15/2016 639h	Aqueous	Anions, E300.0
1603400-002B	TW4-03_03152016	3/15/2016 639h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-002C	TW4-03_03152016	3/15/2016 639h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-003A	TW4-12_03152016	3/15/2016 652h	Aqueous	Anions, E300.0
1603400-003B	TW4-12_03152016	3/15/2016 652h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-003C	TW4-12_03152016	3/15/2016 652h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-004A	TW4-28_03152016	3/15/2016 656h	Aqueous	Anions, E300.0
1603400-004B	TW4-28_03152016	3/15/2016 656h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-004C	TW4-28_03152016	3/15/2016 656h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-005A	TW4-32_03152016	3/15/2016 705h	Aqueous	Anions, E300.0
1603400-005B	TW4-32_03152016	3/15/2016 705h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-005C	TW4-32_03152016	3/15/2016 705h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-006A	TW4-13_03162016	3/16/2016 642h	Aqueous	Anions, E300.0
1603400-006B	TW4-13_03162016	3/16/2016 642h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-006C	TW4-13_03162016	3/16/2016 642h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-007A	TW4-36_03162016	3/16/2016 649h	Aqueous	Anions, E300.0
1603400-007B	TW4-36_03162016	3/16/2016 649h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-007C	TW4-36_03162016	3/16/2016 649h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-008A	TW4-31_03162016	3/16/2016 657h	Aqueous	Anions, E300.0
1603400-008B	TW4-31_03162016	3/16/2016 657h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-008C	TW4-31_03162016	3/16/2016 657h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-009A	TW4-34_03162016	3/16/2016 705h	Aqueous	Anions, E300.0
1603400-009B	TW4-34_03162016	3/16/2016 705h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-009C	TW4-34_03162016	3/16/2016 705h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-010A	TW4-35_03162016	3/16/2016 713h	Aqueous	Anions, E300.0
1603400-010B	TW4-35_03162016	3/16/2016 713h	Aqueous	Nitrite/Nitrate (as N), E353.2



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603400  
**Date Received:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603400-010C	TW4-35_03162016	3/16/2016 713h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-011A	TW4-23_03162016	3/16/2016 721h	Aqueous	Anions, E300.0
1603400-011B	TW4-23_03162016	3/16/2016 721h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-011C	TW4-23_03162016	3/16/2016 721h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-012A	TW4-14_03162016	3/16/2016 729h	Aqueous	Anions, E300.0
1603400-012B	TW4-14_03162016	3/16/2016 729h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-012C	TW4-14_03162016	3/16/2016 729h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-013A	TW4-27_03162016	3/16/2016 736h	Aqueous	Anions, E300.0
1603400-013B	TW4-27_03162016	3/16/2016 736h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-013C	TW4-27_03162016	3/16/2016 736h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-014A	TW4-26_03162016	3/16/2016 748h	Aqueous	Anions, E300.0
1603400-014B	TW4-26_03162016	3/16/2016 748h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-014C	TW4-26_03162016	3/16/2016 748h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-015A	TW4-30_03172016	3/17/2016 750h	Aqueous	Anions, E300.0
1603400-015B	TW4-30_03172016	3/17/2016 750h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-015C	TW4-30_03172016	3/17/2016 750h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-016A	TW4-05_03172016	3/17/2016 804h	Aqueous	Anions, E300.0
1603400-016B	TW4-05_03172016	3/17/2016 804h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-016C	TW4-05_03172016	3/17/2016 804h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-017A	TW4-18_03172016	3/17/2016 813h	Aqueous	Anions, E300.0
1603400-017B	TW4-18_03172016	3/17/2016 813h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-017C	TW4-18_03172016	3/17/2016 813h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-018A	TW4-09_03172016	3/17/2016 822h	Aqueous	Anions, E300.0
1603400-018B	TW4-09_03172016	3/17/2016 822h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-018C	TW4-09_03172016	3/17/2016 822h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-019A	TW4-16_03172016	3/17/2016 829h	Aqueous	Anions, E300.0
1603400-019B	TW4-16_03172016	3/17/2016 829h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-019C	TW4-16_03172016	3/17/2016 829h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-020A	TW4-33_03172016	3/17/2016 838h	Aqueous	Anions, E300.0
1603400-020B	TW4-33_03172016	3/17/2016 838h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Salt Lake City, UT 84119

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603400  
**Date Received:** 3/18/2016 1040h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603400-020C	TW4-33_03172016	3/17/2016 838h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-021A	TW4-29_03172016	3/17/2016 845h	Aqueous	Anions, E300.0
1603400-021B	TW4-29_03172016	3/17/2016 845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-021C	TW4-29_03172016	3/17/2016 845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-022A	TW4-08_03172016	3/17/2016 854h	Aqueous	Anions, E300.0
1603400-022B	TW4-08_03172016	3/17/2016 854h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-022C	TW4-08_03172016	3/17/2016 854h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-023A	Trip Blank	3/14/2016	Aqueous	VOA by GC/MS Method 8260C/5030C
1603400-024A	TW4-65_03152016	3/15/2016 656h	Aqueous	Anions, E300.0
1603400-024B	TW4-65_03152016	3/15/2016 656h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603400-024C	TW4-65_03152016	3/15/2016 656h	Aqueous	VOA by GC/MS Method 8260C/5030C

3440 South 700 West  
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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603400

3440 South 700 West  
Salt Lake City, UT 84119

### **Sample Receipt Information:**

**Date of Receipt:** 3/18/2016  
**Date(s) of Collection:** 3/14 - 3/17/2016  
**Sample Condition:** See Chain of Custody  
**C-O-C Discrepancies:** None

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

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

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

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

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

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

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

Sample ID	Analyte	QC	Explanation
1603400-007B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1603400-021B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1603479-001B	Nitrate/Nitrite	MS/MSD	Sample matrix interference

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

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603400

---

3440 South 700 West  
Salt Lake City, UT 84119

### **Sample Receipt Information:**

**Date of Receipt:** 3/18/2016  
**Date(s) of Collection:** 3/14 - 3/17/2016  
**Sample Condition:** See Chain of Custody  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

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

web: www.awal-labs.com

**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.

Kyle F. Gross  
Laboratory Director

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

Jose Rocha  
QA Officer

**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:** 1603400

**Project:** 1st Quarter Chloroform 2016

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1603400-007BDUP</b>													
Date Analyzed: 04/07/2016 1528h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.0833	0.100					0	0	20	
<b>Lab Sample ID: 1603400-010BDUP</b>													
Date Analyzed: 04/07/2016 1530h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.507	mg/L	E353.2	0.0833	0.100					0.521	2.84	20	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS-R88552</b> Date Analyzed: 03/23/2016 1252h													
Test Code: 300.0-W													
Chloride	4.93	mg/L	E300.0	0.00516	0.100	5.000	0	98.7	90 - 110				
<b>Lab Sample ID: LCS-R88572</b> Date Analyzed: 03/24/2016 2051h													
Test Code: 300.0-W													
Chloride	4.91	mg/L	E300.0	0.00516	0.100	5.000	0	98.2	90 - 110				
<b>Lab Sample ID: LCS-R88553</b> Date Analyzed: 03/24/2016 1605h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.100	1.000	0	106	90 - 110				
<b>Lab Sample ID: LCS-R88554</b> Date Analyzed: 03/24/2016 1659h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.09	mg/L	E353.2	0.00833	0.0100	1.000	0	109	90 - 110				
<b>Lab Sample ID: LCS-R88933</b> Date Analyzed: 04/07/2016 1526h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.971	mg/L	E353.2	0.00833	0.0100	1.000	0	97.1	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:** 1603400

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID:</b> MB-R88552	Date Analyzed: 03/23/2016 1235h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
<b>Lab Sample ID:</b> MB-R88572	Date Analyzed: 03/24/2016 2034h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
<b>Lab Sample ID:</b> MB-R88553	Date Analyzed: 03/24/2016 1604h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00833	0.100								
<b>Lab Sample ID:</b> MB-R88554	Date Analyzed: 03/24/2016 1658h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID:</b> MB-R88933	Date Analyzed: 04/07/2016 1525h												
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:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603400-002AMS</b> Date Analyzed: 03/23/2016 1326h													
Test Code: 300.0-W													
Chloride	125	mg/L	E300.0	0.103	2.00	100.0	32.8	92.1	90 - 110				
<b>Lab Sample ID: 1603400-020AMS</b> Date Analyzed: 03/23/2016 2151h													
Test Code: 300.0-W													
Chloride	142	mg/L	E300.0	0.103	2.00	100.0	46.2	95.3	90 - 110				
<b>Lab Sample ID: 1603400-008AMS</b> Date Analyzed: 03/24/2016 2144h													
Test Code: 300.0-W													
Chloride	128	mg/L	E300.0	0.103	2.00	100.0	31.5	96.9	90 - 110				
<b>Lab Sample ID: 1603400-014AMS</b> Date Analyzed: 03/25/2016 032h													
Test Code: 300.0-W													
Chloride	111	mg/L	E300.0	0.103	2.00	100.0	13.7	97.5	90 - 110				
<b>Lab Sample ID: 1603400-001BMS</b> Date Analyzed: 03/24/2016 1607h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.9	mg/L	E353.2	0.0833	0.100	10.00	0.0198	109	90 - 110				
<b>Lab Sample ID: 1603400-007BMS</b> Date Analyzed: 03/24/2016 1627h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.2	mg/L	E353.2	0.0833	0.100	10.00	0.0109	112	90 - 110				1
<b>Lab Sample ID: 1603400-021BMS</b> Date Analyzed: 03/24/2016 1701h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	25.9	mg/L	E353.2	0.167	0.200	20.00	2.92	115	90 - 110				1
<b>Lab Sample ID: 1603479-001BMS</b> Date Analyzed: 03/24/2016 1720h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0	115	90 - 110				1

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



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603400-002AMSD</b> Date Analyzed: 03/23/2016 1343h													
Test Code: 300.0-W													
Chloride	125	mg/L	E300.0	0.103	2.00	100.0	32.8	91.8	90 - 110	125	0.294	20	
<b>Lab Sample ID: 1603400-020AMSD</b> Date Analyzed: 03/23/2016 2208h													
Test Code: 300.0-W													
Chloride	141	mg/L	E300.0	0.103	2.00	100.0	46.2	95.2	90 - 110	142	0.0937	20	
<b>Lab Sample ID: 1603400-008AMSD</b> Date Analyzed: 03/24/2016 2200h													
Test Code: 300.0-W													
Chloride	128	mg/L	E300.0	0.103	2.00	100.0	31.5	96.6	90 - 110	128	0.226	20	
<b>Lab Sample ID: 1603400-014AMSD</b> Date Analyzed: 03/25/2016 049h													
Test Code: 300.0-W													
Chloride	112	mg/L	E300.0	0.103	2.00	100.0	13.7	98.4	90 - 110	111	0.810	20	
<b>Lab Sample ID: 1603400-001BMSD</b> Date Analyzed: 03/24/2016 1608h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.8	mg/L	E353.2	0.0833	0.100	10.00	0.0198	108	90 - 110	10.9	0.460	10	
<b>Lab Sample ID: 1603400-007BMSD</b> Date Analyzed: 03/24/2016 1628h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.1	mg/L	E353.2	0.0833	0.100	10.00	0.0109	111	90 - 110	11.2	0.717	10	1
<b>Lab Sample ID: 1603400-021BMSD</b> Date Analyzed: 03/24/2016 1702h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	25.2	mg/L	E353.2	0.167	0.200	20.00	2.92	111	90 - 110	25.9	2.86	10	1
<b>Lab Sample ID: 1603479-001BMSD</b> Date Analyzed: 03/24/2016 1721h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0	115	90 - 110	11.5	0.261	10	1

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



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS VOC-2 031816A</b> Date Analyzed: 03/18/2016 1504h													
Test Code: 8260-W-DEN100													
Chloroform	21.7	µg/L	SW8260C	0.153	1.00	20.00	0	109	85 - 124				
Methylene chloride	20.4	µg/L	SW8260C	0.172	1.00	20.00	0	102	81 - 135				
Surr: 1,2-Dichloroethane-d4	48.2	µg/L	SW8260C			50.00		96.4	80 - 122				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.6	85 - 121				
Surr: Dibromofluoromethane	48.6	µg/L	SW8260C			50.00		97.2	80 - 116				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.9	81 - 123				
<b>Lab Sample ID: LCS VOC-1 031816A</b> Date Analyzed: 03/18/2016 1033h													
Test Code: 8260-W-DEN100													
Chloroform	20.7	µg/L	SW8260C	0.153	1.00	20.00	0	103	85 - 124				
Methylene chloride	20.0	µg/L	SW8260C	0.172	1.00	20.00	0	99.8	81 - 135				
Surr: 1,2-Dichloroethane-d4	51.5	µg/L	SW8260C			50.00		103	80 - 122				
Surr: 4-Bromofluorobenzene	51.3	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	80 - 116				
Surr: Toluene-d8	50.2	µg/L	SW8260C			50.00		100	81 - 123				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: MB VOC-2 031816A</b> Date Analyzed: 03/18/2016 1118h													
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	49.5	µg/L	SW8260C			50.00		99.1	80 - 122				
Surr: 4-Bromofluorobenzene	51.5	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	49.4	µg/L	SW8260C			50.00		98.8	80 - 116				
Surr: Toluene-d8	50.2	µg/L	SW8260C			50.00		100	81 - 123				
<b>Lab Sample ID: MB VOC-1 031816A</b> Date Analyzed: 03/18/2016 1112h													
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	54.3	µg/L	SW8260C			50.00		109	80 - 122				
Surr: 4-Bromofluorobenzene	53.5	µg/L	SW8260C			50.00		107	85 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260C			50.00		104	80 - 116				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	81 - 123				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603400-021CMS</b> Date Analyzed: 03/18/2016 1633h													
Test Code: 8260-W-DEN100													
Chloroform	536	µg/L	SW8260C	1.53	10.0	200.0	335	101	50 - 146				
Methylene chloride	249	µg/L	SW8260C	1.72	10.0	200.0	0	125	30 - 192				
Surr: 1,2-Dichloroethane-d4	475	µg/L	SW8260C			500.0		95.0	72 - 151				
Surr: 4-Bromofluorobenzene	491	µg/L	SW8260C			500.0		98.2	80 - 152				
Surr: Dibromofluoromethane	493	µg/L	SW8260C			500.0		98.7	80 - 124				
Surr: Toluene-d8	500	µg/L	SW8260C			500.0		100	77 - 129				
<b>Lab Sample ID: 1603400-001CMS</b> Date Analyzed: 03/18/2016 1603h													
Test Code: 8260-W-DEN100													
Chloroform	21.3	µg/L	SW8260C	0.153	1.00	20.00	0	107	50 - 146				
Methylene chloride	21.1	µg/L	SW8260C	0.172	1.00	20.00	0	106	30 - 192				
Surr: 1,2-Dichloroethane-d4	49.0	µg/L	SW8260C			50.00		98.1	72 - 151				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.3	80 - 152				
Surr: Dibromofluoromethane	48.8	µg/L	SW8260C			50.00		97.7	80 - 124				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.4	77 - 129				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603400  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603400-021CMSD</b> Date Analyzed: 03/18/2016 1653h													
Test Code: 8260-W-DEN100													
Chloroform	522	µg/L	SW8260C	1.53	10.0	200.0	335	93.5	50 - 146	536	2.65	25	
Methylene chloride	241	µg/L	SW8260C	1.72	10.0	200.0	0	121	30 - 192	249	3.22	25	
Surr: 1,2-Dichloroethane-d4	472	µg/L	SW8260C			500.0		94.4	72 - 151				
Surr: 4-Bromofluorobenzene	490	µg/L	SW8260C			500.0		98.0	80 - 152				
Surr: Dibromofluoromethane	491	µg/L	SW8260C			500.0		98.2	80 - 124				
Surr: Toluene-d8	502	µg/L	SW8260C			500.0		100	77 - 129				
<b>Lab Sample ID: 1603400-001CMSD</b> Date Analyzed: 03/18/2016 1623h													
Test Code: 8260-W-DEN100													
Chloroform	20.8	µg/L	SW8260C	0.153	1.00	20.00	0	104	50 - 146	21.3	2.37	25	
Methylene chloride	19.3	µg/L	SW8260C	0.172	1.00	20.00	0	96.5	30 - 192	21.1	9.06	25	
Surr: 1,2-Dichloroethane-d4	48.8	µg/L	SW8260C			50.00		97.6	72 - 151				
Surr: 4-Bromofluorobenzene	50.6	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	48.4	µg/L	SW8260C			50.00		96.8	80 - 124				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	77 - 129				

**WORK ORDER Summary**

Work Order: **1603400** Page 1 of 4

**Client:** Energy Fuels Resources, Inc.

Due Date: 3/29/2016

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2016

**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 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1603400-001A	TW4-03R_03142016	3/14/2016 1329h	3/18/2016 1040h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603400-001B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1603400-001C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603400-002A	TW4-03_03152016	3/15/2016 0639h	3/18/2016 1040h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603400-002B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1603400-002C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603400-003A	TW4-12_03152016	3/15/2016 0652h	3/18/2016 1040h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603400-003B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1603400-003C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603400-004A	TW4-28_03152016	3/15/2016 0656h	3/18/2016 1040h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603400-004B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1603400-004C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			
1603400-005A	TW4-32_03152016	3/15/2016 0705h	3/18/2016 1040h	300.0-W	Aqueous	df - wc	1
				1 SEL Analytes: CL			
1603400-005B				NO2/NO3-W-353.2		df - no2/no3	
				1 SEL Analytes: NO3NO2N			
1603400-005C				8260-W-DEN100		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4			

# WORK ORDER Summary

Work Order: **1603400**

Page 2 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 3/29/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603400-006A	TW4-13_03162016	3/16/2016 0642h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-006B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-006C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-007A	TW4-36_03162016	3/16/2016 0649h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-007B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-007C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-008A	TW4-31_03162016	3/16/2016 0657h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-008B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-008C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-009A	TW4-34_03162016	3/16/2016 0705h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-009B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-009C				8260-W-DEN100		VOCFridge		2
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-010A	TW4-35_03162016	3/16/2016 0713h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-010B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-010C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-011A	TW4-23_03162016	3/16/2016 0721h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-011B				NO2/NO3-W-353.2				df - no2/no3
				1 SEL Analytes: NO3NO2N				
1603400-011C				8260-W-DEN100		VOCFridge		2
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-012A	TW4-14_03162016	3/16/2016 0729h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				

**WORK ORDER Summary**Work Order: **1603400**

Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 3/29/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603400-012B	TW4-14_03162016	3/16/2016 0729h	3/18/2016 1040h	NO2/NO3-W-353.2	Aqueous	df - no2/no3		1
				1 SEL Analytes: NO3NO2N				
1603400-012C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-013A	TW4-27_03162016	3/16/2016 0736h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-013B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				
1603400-013C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-014A	TW4-26_03162016	3/16/2016 0748h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-014B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				
1603400-014C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-015A	TW4-30_03172016	3/17/2016 0750h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-015B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				
1603400-015C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-016A	TW4-05_03172016	3/17/2016 0804h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-016B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				
1603400-016C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-017A	TW4-18_03172016	3/17/2016 0813h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-017B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				
1603400-017C				8260-W-DEN100		VOCFridge		3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603400-018A	TW4-09_03172016	3/17/2016 0822h	3/18/2016 1040h	300.0-W	Aqueous	df - wc		1
				1 SEL Analytes: CL				
1603400-018B				NO2/NO3-W-353.2		df - no2/no3		
				1 SEL Analytes: NO3NO2N				

# WORK ORDER Summary

Work Order: **1603400**

Page 4 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 3/29/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603400-018C	TW4-09_03172016	3/17/2016 0822h	3/18/2016 1040h	8260-W-DEN100	Aqueous		VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-019A	TW4-16_03172016	3/17/2016 0829h	3/18/2016 1040h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1603400-019B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1603400-019C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-020A	TW4-33_03172016	3/17/2016 0838h	3/18/2016 1040h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1603400-020B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1603400-020C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-021A	TW4-29_03172016	3/17/2016 0845h	3/18/2016 1040h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1603400-021B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1603400-021C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-022A	TW4-08_03172016	3/17/2016 0854h	3/18/2016 1040h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1603400-022B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1603400-022C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-023A	Trip Blank	3/14/2016	3/18/2016 1040h	8260-W-DEN100	Aqueous		VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1603400-024A	TW4-65_03152016	3/15/2016 0656h	3/18/2016 1040h	300.0-W	Aqueous		df - wc	1
<i>1 SEL Analytes: CL</i>								
1603400-024B				NO2/NO3-W-353.2			df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1603400-024C				8260-W-DEN100			VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								



**American West Analytical Laboratories**

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

**CHAIN OF CUSTODY**

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

1603400

AWAL Lab Sample Set #  
 Page 1 of 2

QC Level:		Turn Around Time:		Due Date:						
3		Standard								
# of Containers Sample Matrix NO2/NO3 (353.2) Cl (4500 or 300.0) VOCs (8260C)	X Include EDD: <b>LOCUS UPLOAD</b> <b>EXCEL</b> Field Filtered For:			Laboratory Use Only Samples Were: <i>UPS</i> 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <i>0-8°C</i> 4 Received Broken/Leaking (Improperly Sealed) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 5 Properly Preserved <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 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						
	For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:			Known Hazards & Sample Comments						
Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments		
1 TW4-03R_03142016	3/14/2016	1329	5	W	X	X	X			
2 TW4-03_03152016	3/15/2016	639	5	W	X	X	X			
3 TW4-12_03152016	3/15/2016	652	5	W	X	X	X			
4 TW4-28_03152016	3/15/2016	656	5	W	X	X	X			
5 TW4-32_03152016	3/15/2016	705	5	W	X	X	X			
6 TW4-13_03162016	3/16/2016	642	5	W	X	X	X			
7 TW4-36_03162016	3/16/2016	649	5	W	X	X	X			
8 TW4-31_03162016	3/16/2016	657	5	W	X	X	X			
9 TW4-34_03162016	3/16/2016	705	5	W	X	X	X	* 1 vial rec. Broken		
10 TW4-35_03162016	3/16/2016	713	5	W	X	X	X			
11 TW4-23_03162016	3/16/2016	721	5	W	X	X	X	* 1 vial rec. Broken		
12 TW4-14_03162016	3/16/2016	729	5	W	X	X	X			
13 TW4-27_03162016	3/16/2016	736	5	W	X	X	X			

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: **TANNER HOLIDAY**  
 Project #: **1ST QUARTER [REDACTED] 2016**  
 PO #: **Chloroform**  
 Sampler Name: **TANNER HOLIDAY**

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: 3/17/2016	Received by: Signature: <i>Elma Hayward</i>	Date: 3-18-16	Special Instructions:  See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1230	Print Name: Elma Hayward	Time: 1040	
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:	



# American West Analytical Laboratories

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## CHAIN OF CUSTODY

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

1603400

AWAL Lab Sample Set #  
 Page 2 of 2

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:	
3		Standard					
# of Containers Sample Matrix NO2/NO3 (353.2) Cl (4500 or 300.0) VOCs (8260C)							

**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**

**Laboratory Use Only**

Samples Were: UPS

- Shipped or hand delivered
- Ambient or Chilled
- Temperature 0-8°C
- Received Broken/Leaking (Improperly Sealed)  N
- Properly Preserved  N  
Checked at bench  N
- Received Within Holding Times  N

COC Tape Was:

- Present on Outer Package  N NA
- Unbroken on Outer Package  N NA
- Present on Sample  N NA
- Unbroken on Sample  N NA

Discrepancies Between Sample Labels and COC Record?  N

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #:  
**gpalmer@energyfuels.com; kweincl@energyfuels.com;**  
**dturk@energyfuels.com**  
 Project Name: **TANNER HOLLIDAY**  
 Project #: **1ST QUARTER CHLOROFORM 2016**  
 PO #:  
 Sampler Name: **TANNER HOLLIDAY**

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)
4 TW4-26_03162016	3/16/2016	748	5	W	X	X	X
5 TW4-30_03172016	3/17/2016	750	5	W	X	X	X
6 TW4-05_03172016	3/17/2016	804	5	W	X	X	X
7 TW4-18_03172016	3/17/2016	813	5	W	X	X	X
8 TW4-09_03172016	3/17/2016	822	5	W	X	X	X
9 TW4-16_03172016	3/17/2016	829	5	W	X	X	X
0 TW4-33_03172016	3/17/2016	838	5	W	X	X	X
1 TW4-29_03172016	3/17/2016	845	5	W	X	X	X
2 TW4-08_03172016	3/17/2016	854	5	W	X	X	X
19 TRIP BLANK	3/14/2016		3	W			X
TEMP BLANK	3/17/2016		1	W			
4 TW4-65_03152016	3/15/2016	656	5	W	X	X	X

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 3/17/2016	Received by: Signature:	Date:	Special Instructions:  See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: <i>Tanner Holliday</i>	Time: 1230	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO <sub>4</sub> E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
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
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C



Lab Set ID: 1603400

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Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	19	20	21	22	24													
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>																		
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	yes	yes	yes													
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- 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

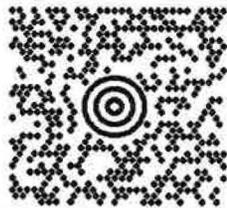
- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference.

GARRIN PALMER  
 4356782221  
 ENERGY FUELS-WHITE MESA MILL  
 6425 S HWY 191  
 BLANDING UT 84511

**49 LBS**

**1 OF 1**

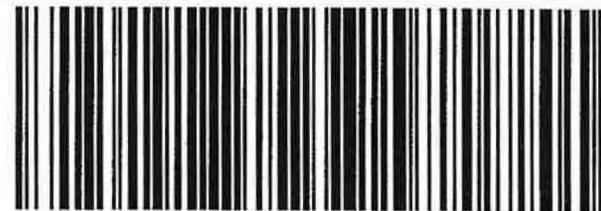
**SHIP TO:**  
 RECEIVING  
 801-263-8686  
 AMERICAN WEST ANALYTICAL LABS  
 3440 SOUTH 700 WEST  
**SALT LAKE CITY UT 84119**



**UT 841 9-22**



**UPS NEXT DAY AIR** **1**  
 TRACKING #: 1Z 187 Y4Y 01 9708 2505



BILLING: P/P

XOL 16.01.23

NV45 72.0A 01/2016



[Create New Shipment](#)

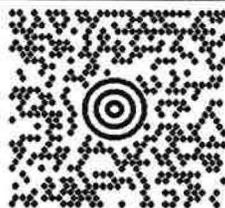
[View Pending Shipments](#)

GARRIN PALMER  
4356782221  
ENERGY FUELS-WHITE MESA MILL  
6425 S HWY 191  
BLANDING UT 84511

49 LBS

1 OF 1

**SHIP TO:**  
RECEIVING  
801-263-8686  
AMERICAN WEST ANALYTICAL LABS  
3440 SOUTH 700 WEST  
**SALT LAKE CITY UT 84119**



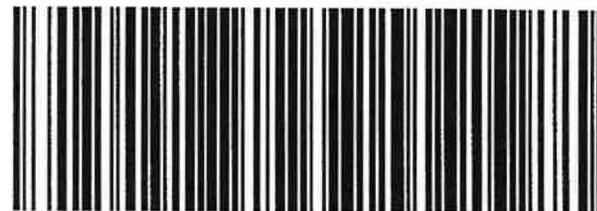
**UT 841 9-22**



**UPS NEXT DAY AIR**

**1**

TRACKING #: 1Z 187 Y4Y 01 9789 1891



BILLING: P/P

XOL 16.01.23

NV45 72.0A 01/2016



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Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 South Hwy 191  
Blanding, UT 84511  
TEL: (303) 389-4134

RE: 1st Quarter Chloroform 2016

Dear Garrin Palmer:

Lab Set ID: 1603479

3440 South 700 West

Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 3/23/2016 for the analyses presented in the following report.

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

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: [awal@awal-labs.com](mailto:awal@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.

web: [www.awal-labs.com](http://www.awal-labs.com)

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: 2016.03.30 12:56:39  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603479  
**Date Received:** 3/23/2016 930h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1603479-001A	TW4-06R_03212016	3/21/2016 1034h	Aqueous	Anions, E300.0
1603479-001B	TW4-06R_03212016	3/21/2016 1034h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-001C	TW4-06R_03212016	3/21/2016 1034h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-002A	MW-32_03222016	3/22/2016 1230h	Aqueous	Anions, E300.0
1603479-002B	MW-32_03222016	3/22/2016 1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-002C	MW-32_03222016	3/22/2016 1230h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-003A	TW4-06_03222016	3/22/2016 851h	Aqueous	Anions, E300.0
1603479-003B	TW4-06_03222016	3/22/2016 851h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-003C	TW4-06_03222016	3/22/2016 851h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-004A	TW4-07_03222016	3/22/2016 858h	Aqueous	Anions, E300.0
1603479-004B	TW4-07_03222016	3/22/2016 858h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-004C	TW4-07_03222016	3/22/2016 858h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-005A	TW4-10_03222016	3/22/2016 906h	Aqueous	Anions, E300.0
1603479-005B	TW4-10_03222016	3/22/2016 906h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-005C	TW4-10_03222016	3/22/2016 906h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-006A	TW4-60_03222016	3/22/2016 1500h	Aqueous	Anions, E300.0
1603479-006B	TW4-60_03222016	3/22/2016 1500h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-006C	TW4-60_03222016	3/22/2016 1500h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-007A	TW4-70_03222016	3/22/2016 1230h	Aqueous	Anions, E300.0
1603479-007B	TW4-70_03222016	3/22/2016 1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
1603479-007C	TW4-70_03222016	3/22/2016 1230h	Aqueous	VOA by GC/MS Method 8260C/5030C
1603479-008A	Trip Blank	3/21/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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web: [www.awal-labs.com](http://www.awal-labs.com)

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603479

3440 South 700 West  
Salt Lake City, UT 84119

### Sample Receipt Information:

**Date of Receipt:** 3/23/2016  
**Date(s) of Collection:** 3/21 & 3/22/2016  
**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:

Sample ID	Analyte	QC	Explanation
1603400-021B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1603479-001B	Nitrate/Nitrite	MS/MSD	Sample matrix interference

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2016  
**Lab Set ID:** 1603479

---

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 3/23/2016  
**Date(s) of Collection:** 3/21 & 3/22/2016  
**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:** 1603479

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS-R88598</b> Date Analyzed: 03/25/2016 806h													
Test Code: 300.0-W													
Chloride	4.80	mg/L	E300.0	0.00516	0.100	5.000	0	95.9	90 - 110				
<b>Lab Sample ID: LCS-R88554</b> Date Analyzed: 03/24/2016 1659h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.09	mg/L	E353.2	0.00833	0.0100	1.000	0	109	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:** 1603479  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID:</b> MB-R88598	Date Analyzed: 03/25/2016 749h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
<b>Lab Sample ID:</b> MB-R88554	Date Analyzed: 03/24/2016 1658h												
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:** 1603479  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603479-002AMS</b> Date Analyzed: 03/25/2016 857h													
Test Code: 300.0-W													
Chloride	134	mg/L	E300.0	0.103	2.00	100.0	36.7	96.9	90 - 110				
<b>Lab Sample ID: 1603400-021BMS</b> Date Analyzed: 03/24/2016 1701h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	25.9	mg/L	E353.2	0.167	0.200	20.00	2.92	115	90 - 110				1
<b>Lab Sample ID: 1603479-001BMS</b> Date Analyzed: 03/24/2016 1720h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0	115	90 - 110				1

<sup>1</sup> - 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:** 1603479

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603479-002AMSD</b>		Date Analyzed: 03/25/2016 914h											
Test Code: 300.0-W													
Chloride	133	mg/L	E300.0	0.103	2.00	100.0	36.7	96.7	90 - 110	134	0.161	20	
<b>Lab Sample ID: 1603400-021BMSD</b>		Date Analyzed: 03/24/2016 1702h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	25.2	mg/L	E353.2	0.167	0.200	20.00	2.92	111	90 - 110	25.9	2.86	10	†
<b>Lab Sample ID: 1603479-001BMSD</b>		Date Analyzed: 03/24/2016 1721h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0	115	90 - 110	11.5	0.261	10	†

† - 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:** 1603479

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: LCS VOC-2 032316A</b>													
Date Analyzed: 03/23/2016 1103h													
Test Code: 8260-W-DEN100													
Chloroform	18.6	µg/L	SW8260C	0.153	1.00	20.00	0	93.2	85 - 124				
Methylene chloride	18.3	µg/L	SW8260C	0.172	1.00	20.00	0	91.7	81 - 135				
Surr: 1,2-Dichloroethane-d4	47.2	µg/L	SW8260C			50.00		94.5	80 - 122				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	85 - 121				
Surr: Dibromofluoromethane	48.9	µg/L	SW8260C			50.00		97.7	80 - 116				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		99.1	81 - 123				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1603479  
**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID:</b> MB VOC-2 032316A	Date Analyzed: 03/23/2016 1142h												
<b>Test Code:</b> 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	49.0	µg/L	SW8260C			50.00		98.0	80 - 122				
Surr: 4-Bromofluorobenzene	51.6	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	48.6	µg/L	SW8260C			50.00		97.2	80 - 116				
Surr: Toluene-d8	50.5	µg/L	SW8260C			50.00		101	81 - 123				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1603479

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603479-005CMS</b>		Date Analyzed: 03/23/2016 1732h											
Test Code: 8260-W-DEN100													
Chloroform	1,850	µg/L	SW8260C	3.06	20.0	400.0	1430	107	50 - 146				
Methylene chloride	380	µg/L	SW8260C	3.44	20.0	400.0	0	95.1	30 - 192				
Surr: 1,2-Dichloroethane-d4	999	µg/L	SW8260C			1,000		99.9	72 - 151				
Surr: 4-Bromofluorobenzene	1,010	µg/L	SW8260C			1,000		101	80 - 152				
Surr: Dibromofluoromethane	995	µg/L	SW8260C			1,000		99.5	80 - 124				
Surr: Toluene-d8	988	µg/L	SW8260C			1,000		98.8	77 - 129				
<b>Lab Sample ID: 1603480-001AMS</b>		Date Analyzed: 03/23/2016 1553h											
Test Code: 8260-W-DEN100													
Chloroform	20.9	µg/L	SW8260C	0.153	1.00	20.00	0	105	50 - 146				
Methylene chloride	18.2	µg/L	SW8260C	0.172	1.00	20.00	0	90.9	30 - 192				
Surr: 1,2-Dichloroethane-d4	47.0	µg/L	SW8260C			50.00		94.0	72 - 151				
Surr: 4-Bromofluorobenzene	49.9	µg/L	SW8260C			50.00		99.8	80 - 152				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	50.1	µg/L	SW8260C			50.00		100	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:** 1603479

**Project:** 1st Quarter Chloroform 2016

**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
<b>Lab Sample ID: 1603479-005CMSD</b>		Date Analyzed: 03/23/2016 1752h											
Test Code: 8260-W-DEN100													
Chloroform	1,840	µg/L	SW8260C	3.06	20.0	400.0	1430	103	50 - 146	1850	0.758	25	
Methylene chloride	405	µg/L	SW8260C	3.44	20.0	400.0	0	101	30 - 192	380	6.26	25	
Surr: 1,2-Dichloroethane-d4	1,010	µg/L	SW8260C			1,000		101	72 - 151				
Surr: 4-Bromofluorobenzene	1,010	µg/L	SW8260C			1,000		101	80 - 152				
Surr: Dibromofluoromethane	993	µg/L	SW8260C			1,000		99.3	80 - 124				
Surr: Toluene-d8	993	µg/L	SW8260C			1,000		99.3	77 - 129				
<b>Lab Sample ID: 1603480-001AMSD</b>		Date Analyzed: 03/23/2016 1613h											
Test Code: 8260-W-DEN100													
Chloroform	19.4	µg/L	SW8260C	0.153	1.00	20.00	0	97.0	50 - 146	20.9	7.58	25	
Methylene chloride	18.7	µg/L	SW8260C	0.172	1.00	20.00	0	93.4	30 - 192	18.2	2.77	25	
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		99.9	80 - 152				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260C			50.00		100	80 - 124				
Surr: Toluene-d8	49.3	µg/L	SW8260C			50.00		98.5	77 - 129				

**WORK ORDER Summary**

Work Order: **1603479** Page 1 of 2

**Client:** Energy Fuels Resources, Inc.

Due Date: 4/1/2016

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2016

**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 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603479-001A	TW4-06R_03212016	3/21/2016 1034h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1603479-001B				NO2/NO3-W-353.2			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1603479-001C				8260-W-DEN100			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603479-002A	MW-32_03222016	3/22/2016 1230h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1603479-002B				NO2/NO3-W-353.2			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1603479-002C				8260-W-DEN100			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603479-003A	TW4-06_03222016	3/22/2016 0851h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1603479-003B				NO2/NO3-W-353.2			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1603479-003C				8260-W-DEN100			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603479-004A	TW4-07_03222016	3/22/2016 0858h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1603479-004B				NO2/NO3-W-353.2			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1603479-004C				8260-W-DEN100			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1603479-005A	TW4-10_03222016	3/22/2016 0906h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1603479-005B				NO2/NO3-W-353.2			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1603479-005C				8260-W-DEN100			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

# WORK ORDER Summary

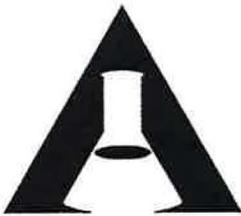
Work Order: **1603479**

Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 4/1/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1603479-006A	TW4-60_03222016	3/22/2016 1500h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1603479-006B				NO2/NO3-W-353.2				
				<i>1 SEL Analytes: NO3NO2N</i>				
1603479-006C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1603479-007A	TW4-70_03222016	3/22/2016 1230h	3/23/2016 0930h	300.0-W	Aqueous		df - wc	1
				<i>1 SEL Analytes: CL</i>				
1603479-007B				NO2/NO3-W-353.2				
				<i>1 SEL Analytes: NO3NO2N</i>				
1603479-007C				8260-W-DEN100			VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1603479-008A	Trip Blank	3/21/2016	3/23/2016 0930h	8260-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				



# American West Analytical Laboratories

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

## CHAIN OF CUSTODY

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

1603479  
 AWAL Lab Sample Set #  
 Page 1 of 1

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:				
3		Standard				4/16				
Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	CI (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments	Laboratory Use Only	
									Samples Were:	Checked at bench
1 TW4-06R_03212016	3/21/2016	1034	5	W	X	X	X		1 Shipped or hand delivered	
2 MW-32_03222016	3/22/2016	1230	5	W	X	X	X		2 Ambient or Chilled	
3 TW4-06_03222016	3/22/2016	851	5	W	X	X	X		3 Temperature 28 °C	
4 TW4-07_03222016	3/22/2016	858	5	W	X	X	X		4 Received Broken/Leaking (Improperly Sealed)	N
5 TW4-10_03222016	3/22/2016	906	5	W	X	X	X		5 Properly Preserved	N
6 TW4-60_03222016	3/22/2016	1500	5	W	X	X	X		6 Received Within Holding Times	N
7 TW4-70_03222016	3/22/2016	1230	5	W	X	X	X			
8 TRIP BLANK	3/21/2016		3	W			X			
9 TEMP BLANK	3/22/2016		1	W						
10										
11										
12										

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #: \_\_\_\_\_  
 Email: **gpalmer@energyfuels.com; kweinel@energyfuels.com; dturk@energyfuels.com**  
 Project Name: **1ST QUARTER CHLOROFORM 2016**  
 Project #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 Sampler Name: **TANNER HOLLIDAY**

X Include EDD:  
**LOCUS UPLOAD**  
**EXCEL**  
 Field Filtered For:  
 For Compliance With:  
 NELAP  
 RCRA  
 CWA  
 SDWA  
 ELAP / A2LA  
 NLLAP  
 Non-Compliance  
 Other:  
 Known Hazards & Sample Comments

Samples Were:  
 1 Shipped or hand delivered  
 2 Ambient or Chilled  
 3 Temperature 28 °C  
 4 Received Broken/Leaking (Improperly Sealed) Y N  
 5 Properly Preserved Y N  
 Checked at bench Y N  
 6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y NA

Relinquished by: Signature <i>Garrin Palmer</i>	Date: 3/23/2016	Received by: Signature <i>Tanner Holliday</i>	Date: 3/23/16
Print Name: GARRIN PALMER	Time: 0930	Print Name: Tanner Holliday	Time: 930
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.

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO <sub>4</sub> E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
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
<b>SVOCs – Tailings Impoundment Samples Only</b>					
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										
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO <sub>3</sub>																	
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes																
O & G	pH <2 HCL																	
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																	

- 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-04	NA	Continuously pumped well	--		1858		N/A	7.37		N/A	14.78		N/A	256		N/A	0.0		N/A
TW4-01	NA	Continuously pumped well	--		2335		N/A	7.25		N/A	15.26		N/A	268		N/A	1.2		N/A
TW4-02	NA	Continuously pumped well	--		3408		N/A	7.23		N/A	15.14		N/A	257		N/A	1.0		N/A
TW4-03	55.04	110.00	110	Pumped Dry	1709	1714	0.29	5.97	6.01	0.67	14.21	14.18	0.21	NM		NC	NM		NC
TW4-04	NA	Continuously pumped well	--		2301		N/A	7.11		N/A	16.02		N/A	292		N/A	11.0		N/A
TW4-05	36.20	100.00	72	OK	1491	1482	0.61	6.27	6.28	0.16	15.24	15.24	0.00	428	427	0.23	3.8	3.8	0.00
TW4-06	16.52	33.33	33	Pumped Dry	3652	3268	11.10	6.20	6.25	0.80	15.35	15.38	0.20	NM		NC	NM		NC
TW4-07	28.55	70.00	57	OK	1577	1570	0.44	6.52	6.53	0.15	14.96	14.97	0.07	352	350	0.57	9	9	0.00
TW4-08	29.37	80.00	59	OK	4812	4811	0.02	6.12	6.12	0.00	15.04	15.05	0.07	422	420	0.48	3.0	3.0	0.00
TW4-09	37.56	90.00	75	OK	2446	2446	0.00	6.13	6.12	0.16	14.93	14.93	0.00	420	419	0.24	19	19	0.00
TW4-10	32.01	70.00	64	Pumped Dry	2866	2891	0.87	6.31	6.29	0.32	14.19	14.32	0.91	NM		NC	NM		NC
TW4-11	NA	Continuously pumped well	--		3596		N/A	7.25		N/A	16.83		N/A	231		N/A	30		N/A
TW4-12	36.43	80.00	73	OK	1481	1479	0.14	6.47	6.51	0.62	14.98	14.97	0.07	417	416	0.24	13.9	14.0	0.72
TW4-13	32.94	60.00	66	Pumped Dry	2024	2029	0.25	7.01	7.00	0.14	14.72	14.70	0.14	NM		NC	NM		NC
TW4-14	8.45	15.00	17	Pumped Dry	5150	5163	0.25	6.22	6.21	0.16	12.45	12.50	0.40	NM		NC	NM		NC
MW-26	NA	Continuously pumped well	--		3425		N/A	6.99		N/A	15.21		N/A	276		N/A	0.00		N/A
TW4-16	51.00	120.00	102	OK	3561	3561	0.00	6.02	6.03	0.17	15.74	15.75	0.06	347	346	0.29	118	115	2.58
MW-32	36.33	78.12	73	OK	3827	3819	0.21	6.17	6.15	0.32	14.80	14.78	0.14	449	440	2.02	139	141	1.43
TW4-18	47.02	120.00	94	OK	1877	1875	0.11	5.95	5.95	0.00	16.77	16.77	0.00	416	415	0.24	24	24	0.00
TW4-19	NA	Continuously pumped well	--		3768		N/A	7.22		N/A	16.67		N/A	331		N/A	0		N/A
TW4-20	NA	Continuously pumped well	--		3927		N/A	6.94		N/A	15.49		N/A	306		N/A	4.4		N/A
TW4-21	NA	Continuously pumped well	--		4528		N/A	6.44		N/A	15.81		N/A	349		N/A	0		N/A
TW4-22	NA	Continuously pumped well	--		5570		N/A	7.05		N/A	15.32		N/A	317		N/A	0		N/A
TW4-23	29.15	80.00	58	OK	3650	3641	0.25	6.14	6.14	0.00	14.34	14.34	0.00	311	311	0.00	115	113	1.75
TW4-24	NA	Continuously pumped well	--		7462		N/A	6.92		N/A	15.04		N/A	334		N/A	0		N/A
TW4-25	NA	Continuously pumped well	--		2739		N/A	7.14		N/A	14.63		N/A	314		N/A	0		N/A
TW4-26	12.57	20.00	25	Pumped Dry	6441	6459	0.28	4.24	4.22	0.47	12.80	12.85	0.39	NM		NC	NM		NC
TW4-27	10.63	15.00	21	Pumped Dry	5188	5226	0.73	6.29	6.3	0.16	12.27	12.37	0.81	NM		NC	NM		NC
TW4-28	43.91	100.00	88	OK	1351	1354	0.22	6.61	6.63	0.30	14.93	14.92	0.07	381	380	0.26	44	43	2.30
TW4-29	12.94	20.00	26	Pumped Dry	4235	4243	0.19	6.22	6.25	0.48	13.75	13.80	0.36	NM		NC	NM		NC
TW4-30	10.87	22.50	22	Pumped Dry	4342	4345	0.07	4.65	4.64	0.22	13.94	13.98	0.29	NM		NC	NM		NC
TW4-31	17.17	30.00	34	Pumped Dry	4679	4692	0.28	6.71	6.69	0.30	13.30	13.35	0.38	NM		NC	NM		NC
TW4-32	41.85	100.00	84	OK	7185	7206	0.29	3.06	3.06	0.00	14.82	14.82	0.00	517	517	0.00	12	12	0.00
TW4-33	10.05	13.33	20	Pumped Dry	4392	4400	0.18	5.71	5.73	0.35	13.63	13.66	0.22	NM		NC	NM		NC
TW4-34	16.55	35.00	33	Pumped Dry	3909	3920	0.28	6.77	6.73	0.59	13.08	13.11	0.23	NM		NC	NM		NC
TW4-35	8.71	13.33	17	Pumped Dry	4363	4390	0.62	6.54	6.53	0.15	13.04	13.10	0.46	NM		NC	NM		NC
TW4-36	27.75	17.50	56	Pumped Dry	2354	2379	1.06	6.80	6.76	0.59	13.68	13.73	0.36	NM		NC	NM		NC
TW4-37	NA	Continuously pumped well	--		4417		N/A	7.15		N/A	15.58		N/A	315		N/A	0.0		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, TW4-10, TW4-13, TW4-14, TW4-26, TW4-27, 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	3/9/2016	3/14/2016	5	14	OK
Trip Blank	Chloroform	3/9/2016	3/14/2016	5	14	OK
Trip Blank	Chloromethane	3/9/2016	3/14/2016	5	14	OK
Trip Blank	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
Trip Blank	Carbon tetrachloride	3/14/2016	3/18/2016	4	14	OK
Trip Blank	Chloroform	3/14/2016	3/18/2016	4	14	OK
Trip Blank	Chloromethane	3/14/2016	3/18/2016	4	14	OK
Trip Blank	Methylene chloride	3/14/2016	3/18/2016	4	14	OK
Trip Blank	Carbon tetrachloride	3/21/2016	3/23/2016	2	14	OK
Trip Blank	Chloroform	3/21/2016	3/23/2016	2	14	OK
Trip Blank	Chloromethane	3/21/2016	3/23/2016	2	14	OK
Trip Blank	Methylene chloride	3/21/2016	3/23/2016	2	14	OK
MW-04	Chloride	3/9/2016	3/16/2016	7	28	OK
MW-04	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
MW-04	Chloroform	3/9/2016	3/14/2016	5	14	OK
MW-04	Chloromethane	3/9/2016	3/14/2016	5	14	OK
MW-04	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
MW-04	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-01	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-01	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-01	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-01	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-01	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-01	Nitrate/Nitrite (as N)	3/9/2016	3/23/2016	14	28	OK
TW4-02	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-02	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-02	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-02	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-02	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-02	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-03	Chloride	3/15/2016	3/23/2016	8	28	OK
TW4-03	Carbon tetrachloride	3/15/2016	3/18/2016	3	14	OK
TW4-03	Chloroform	3/15/2016	3/18/2016	3	14	OK
TW4-03	Chloromethane	3/15/2016	3/18/2016	3	14	OK
TW4-03	Methylene chloride	3/15/2016	3/18/2016	3	14	OK
TW4-03	Nitrate/Nitrite (as N)	3/15/2016	3/24/2016	9	28	OK
TW4-03R	Chloride	3/14/2016	3/23/2016	9	28	OK
TW4-03R	Carbon tetrachloride	3/14/2016	3/18/2016	4	14	OK
TW4-03R	Chloroform	3/14/2016	3/18/2016	4	14	OK
TW4-03R	Chloromethane	3/14/2016	3/18/2016	4	14	OK
TW4-03R	Methylene chloride	3/14/2016	3/18/2016	4	14	OK
TW4-03R	Nitrate/Nitrite (as N)	3/14/2016	3/24/2016	10	28	OK
TW4-04	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-04	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-04	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-04	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-04	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-04	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	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	Chloride	3/17/2016	3/25/2016	8	28	OK
TW4-05	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-05	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-05	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-05	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-05	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-06	Chloride	3/22/2016	3/25/2016	3	28	OK
TW4-06	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
TW4-06	Chloroform	3/22/2016	3/23/2016	1	14	OK
TW4-06	Chloromethane	3/22/2016	3/23/2016	1	14	OK
TW4-06	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
TW4-06	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK
TW4-06R	Chloride	3/21/2016	3/25/2016	4	28	OK
TW4-06R	Carbon tetrachloride	3/21/2016	3/23/2016	2	14	OK
TW4-06R	Chloroform	3/21/2016	3/23/2016	2	14	OK
TW4-06R	Chloromethane	3/21/2016	3/23/2016	2	14	OK
TW4-06R	Methylene chloride	3/21/2016	3/23/2016	2	14	OK
TW4-06R	Nitrate/Nitrite (as N)	3/21/2016	3/24/2016	3	28	OK
TW4-07	Chloride	3/22/2016	3/25/2016	3	28	OK
TW4-07	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
TW4-07	Chloroform	3/22/2016	3/23/2016	1	14	OK
TW4-07	Chloromethane	3/22/2016	3/23/2016	1	14	OK
TW4-07	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
TW4-07	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK
TW4-08	Chloride	3/17/2016	3/23/2016	6	28	OK
TW4-08	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-08	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-08	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-08	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-08	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-09	Chloride	3/17/2016	3/25/2016	8	28	OK
TW4-09	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-09	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-09	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-09	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-09	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-10	Chloride	3/22/2016	3/25/2016	3	28	OK
TW4-10	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
TW4-10	Chloroform	3/22/2016	3/23/2016	1	14	OK
TW4-10	Chloromethane	3/22/2016	3/23/2016	1	14	OK
TW4-10	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
TW4-10	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK
TW4-11	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-11	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-11	Chloroform	3/9/2016	3/15/2016	6	14	OK
TW4-11	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-11	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-11	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	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	Chloride	3/15/2016	3/23/2016	8	28	OK
TW4-12	Carbon tetrachloride	3/15/2016	3/18/2016	3	14	OK
TW4-12	Chloroform	3/15/2016	3/18/2016	3	14	OK
TW4-12	Chloromethane	3/15/2016	3/18/2016	3	14	OK
TW4-12	Methylene chloride	3/15/2016	3/18/2016	3	14	OK
TW4-12	Nitrate/Nitrite (as N)	3/15/2016	3/24/2016	9	28	OK
TW4-13	Chloride	3/16/2016	3/23/2016	7	28	OK
TW4-13	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-13	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-13	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-13	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-13	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
TW4-14	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-14	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-14	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-14	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-14	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-14	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
MW-26	Chloride	3/9/2016	3/16/2016	7	28	OK
MW-26	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
MW-26	Chloroform	3/9/2016	3/14/2016	5	14	OK
MW-26	Chloromethane	3/9/2016	3/14/2016	5	14	OK
MW-26	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
MW-26	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-16	Chloride	3/17/2016	3/25/2016	8	28	OK
TW4-16	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-16	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-16	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-16	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-16	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
MW-32	Chloride	3/22/2016	3/25/2016	3	28	OK
MW-32	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
MW-32	Chloroform	3/22/2016	3/23/2016	1	14	OK
MW-32	Chloromethane	3/22/2016	3/23/2016	1	14	OK
MW-32	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
MW-32	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK
TW4-18	Chloride	3/17/2016	3/25/2016	8	28	OK
TW4-18	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-18	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-18	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-18	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-18	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-19	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-19	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-19	Chloroform	3/9/2016	3/15/2016	6	14	OK
TW4-19	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-19	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-19	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	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	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-20	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-20	Chloroform	3/9/2016	3/15/2016	6	14	OK
TW4-20	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-20	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-20	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-21	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-21	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-21	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-21	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-21	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-21	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-22	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-22	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-22	Chloroform	3/9/2016	3/15/2016	6	14	OK
TW4-22	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-22	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-22	Nitrate/Nitrite (as N)	3/9/2016	3/21/2016	12	28	OK
TW4-23	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-23	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-23	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-23	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-23	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-23	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
TW4-24	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-24	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-24	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-24	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-24	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-24	Nitrate/Nitrite (as N)	3/9/2016	3/23/2016	14	28	OK
TW4-25	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-25	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-25	Chloroform	3/9/2016	3/14/2016	5	14	OK
TW4-25	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-25	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-25	Nitrate/Nitrite (as N)	3/9/2016	3/12/2016	3	28	OK
TW4-26	Chloride	3/16/2016	3/25/2016	9	28	OK
TW4-26	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-26	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-26	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-26	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-26	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
TW4-27	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-27	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-27	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-27	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-27	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-27	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	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	Chloride	3/15/2016	3/23/2016	8	28	OK
TW4-28	Carbon tetrachloride	3/15/2016	3/18/2016	3	14	OK
TW4-28	Chloroform	3/15/2016	3/18/2016	3	14	OK
TW4-28	Chloromethane	3/15/2016	3/18/2016	3	14	OK
TW4-28	Methylene chloride	3/15/2016	3/18/2016	3	14	OK
TW4-28	Nitrate/Nitrite (as N)	3/15/2016	3/24/2016	9	28	OK
TW4-29	Chloride	3/17/2016	3/23/2016	6	28	OK
TW4-29	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-29	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-29	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-29	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-29	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-30	Chloride	3/17/2016	3/25/2016	8	28	OK
TW4-30	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-30	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-30	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-30	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-30	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-31	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-31	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-31	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-31	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-31	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-31	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
TW4-32	Chloride	3/15/2016	3/23/2016	8	28	OK
TW4-32	Carbon tetrachloride	3/15/2016	3/18/2016	3	14	OK
TW4-32	Chloroform	3/15/2016	3/18/2016	3	14	OK
TW4-32	Chloromethane	3/15/2016	3/18/2016	3	14	OK
TW4-32	Methylene chloride	3/15/2016	3/18/2016	3	14	OK
TW4-32	Nitrate/Nitrite (as N)	3/15/2016	3/24/2016	9	28	OK
TW4-33	Chloride	3/17/2016	3/23/2016	6	28	OK
TW4-33	Carbon tetrachloride	3/17/2016	3/18/2016	1	14	OK
TW4-33	Chloroform	3/17/2016	3/18/2016	1	14	OK
TW4-33	Chloromethane	3/17/2016	3/18/2016	1	14	OK
TW4-33	Methylene chloride	3/17/2016	3/18/2016	1	14	OK
TW4-33	Nitrate/Nitrite (as N)	3/17/2016	3/24/2016	7	28	OK
TW4-34	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-34	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-34	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-34	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-34	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-34	Nitrate/Nitrite (as N)	3/16/2016	3/24/2016	8	28	OK
TW4-35	Chloride	3/16/2016	3/24/2016	8	28	OK
TW4-35	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-35	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-35	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-35	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-35	Nitrate/Nitrite (as N)	3/16/2016	4/7/2016	22	28	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	Chloride	3/16/2016	3/23/2016	7	28	OK
TW4-36	Carbon tetrachloride	3/16/2016	3/18/2016	2	14	OK
TW4-36	Chloroform	3/16/2016	3/18/2016	2	14	OK
TW4-36	Chloromethane	3/16/2016	3/18/2016	2	14	OK
TW4-36	Methylene chloride	3/16/2016	3/18/2016	2	14	OK
TW4-36	Nitrate/Nitrite (as N)	3/16/2016	4/7/2016	22	28	OK
TW4-37	Chloride	3/9/2016	3/16/2016	7	28	OK
TW4-37	Carbon tetrachloride	3/9/2016	3/14/2016	5	14	OK
TW4-37	Chloroform	3/9/2016	3/15/2016	6	14	OK
TW4-37	Chloromethane	3/9/2016	3/14/2016	5	14	OK
TW4-37	Methylene chloride	3/9/2016	3/14/2016	5	14	OK
TW4-37	Nitrate/Nitrite (as N)	3/9/2016	3/23/2016	14	28	OK
TW4-60	Chloride	3/22/2016	3/25/2016	3	28	OK
TW4-60	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
TW4-60	Chloroform	3/22/2016	3/23/2016	1	14	OK
TW4-60	Chloromethane	3/22/2016	3/23/2016	1	14	OK
TW4-60	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
TW4-60	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK
TW4-65	Chloride	3/15/2016	3/23/2016	8	28	OK
TW4-65	Carbon tetrachloride	3/15/2016	3/18/2016	3	14	OK
TW4-65	Chloroform	3/15/2016	3/18/2016	3	14	OK
TW4-65	Chloromethane	3/15/2016	3/18/2016	3	14	OK
TW4-65	Methylene chloride	3/15/2016	3/18/2016	3	14	OK
TW4-65	Nitrate/Nitrite (as N)	3/15/2016	3/24/2016	9	28	OK
MW-70	Chloride	3/22/2016	3/25/2016	3	28	OK
MW-70	Carbon tetrachloride	3/22/2016	3/23/2016	1	14	OK
MW-70	Chloroform	3/22/2016	3/23/2016	1	14	OK
MW-70	Chloromethane	3/22/2016	3/23/2016	1	14	OK
MW-70	Methylene chloride	3/22/2016	3/23/2016	1	14	OK
MW-70	Nitrate/Nitrite (as N)	3/22/2016	3/24/2016	2	28	OK

Table I-3 Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1603259	MW-04, MW-26, TW4-01, TW4-02, TW4-04, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, Trip Blank	3.6 °C
1603479	MW-32, TW4-06, TW4-06R, TW4-07, TW4-10, TW4-60, TW4-70, Trip Blank	2.8 °C
1603400	TW4-03, TW4-03R, TW4-05, TW4-08, TW4-09, TW4-12, TW4-13, TW4-14, TW4-16, TW4-18, TW4-23, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-32, TW4-33, TW4-34, TW4-35, TW4-36, TW4-65, Trip Blank	0.8 °C

I-4 Analytical Method Check

<b>Parameter</b>	<b>Method</b>	<b>Method Used by Lab</b>
Carbon Tetrachloride	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl 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
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	20	ug/L		20	1	OK
MW-04	Chloromethane	1	ug/L	U	1	1	OK
MW-04	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Nitrate/Nitrite (as N)	0.1	mg/L		10	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	20	ug/L		20	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)	0.1	mg/L		1	0.1	OK
TW4-02	Chloride	10	mg/L		10	1	OK
TW4-02	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-02	Chloroform	20	ug/L		20	1	OK
TW4-02	Chloromethane	1	ug/L	U	1	1	OK
TW4-02	Methylene chloride	1	ug/L	U	1	1	OK
TW4-02	Nitrate/Nitrite (as N)	0.1	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
TW4-03R	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	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	20	ug/L		20	1	OK
TW4-04	Chloromethane	1	ug/L	U	1	1	OK
TW4-04	Methylene chloride	1	ug/L	U	1	1	OK
TW4-04	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-05	Chloride	10	mg/L		10	1	OK

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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)	0.1	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	10	ug/L		10	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)	0.1	mg/L		10	0.1	OK
TW4-06R	Chloride	1	mg/L	U	1	1	OK
TW4-06R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06R	Chloroform	1	ug/L	U	1	1	OK
TW4-06R	Chloromethane	1	ug/L	U	1	1	OK
TW4-06R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-06R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	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	10	ug/L		10	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)	0.1	mg/L		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	10	ug/L		10	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		5	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)	0.1	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	20	ug/L		20	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)	0.1	mg/L		10	0.1	OK
TW4-11	Chloride	10	mg/L		10	1	OK
TW4-11	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-11	Chloroform	50	ug/L		50	1	OK
TW4-11	Chloromethane	1	ug/L	U	1	1	OK
TW4-11	Methylene chloride	1	ug/L	U	1	1	OK
TW4-11	Nitrate/Nitrite (as N)	0.1	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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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)	0.2	mg/L		20	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)	0.1	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		1	1	OK
TW4-14	Chloromethane	1	ug/L	U	1	1	OK
TW4-14	Methylene chloride	1	ug/L		1	1	OK
TW4-14	Nitrate/Nitrite (as N)	0.1	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	20	ug/L		20	1	OK
MW-26	Chloromethane	1	ug/L	U	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
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)	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	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)	0.1	mg/L		10	0.1	OK
TW4-19	Chloride	100	mg/L		100	1	OK
TW4-19	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-19	Chloroform	50	ug/L		50	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)	0.1	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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-20	Chloromethane	1	ug/L		1	1	OK
TW4-20	Methylene chloride	1	ug/L		1	1	OK
TW4-20	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-21	Chloride	100	mg/L		100	1	OK
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)	0.1	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	U	1	1	OK
TW4-22	Methylene chloride	1	ug/L	U	1	1	OK
TW4-22	Nitrate/Nitrite (as N)	0.5	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)	0.2	mg/L		20	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		10	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)	0.1	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)	0.5	mg/L		50	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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-28	Methylene chloride	1	ug/L	U	1	1	OK
TW4-28	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
TW4-29	Chloride	10	mg/L		10	1	OK
TW4-29	Carbon tetrachloride	1	ug/L	U	1	1	OK
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)	0.1	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)	0.1	mg/L		2	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		1	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)	0.1	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)	0.2	mg/L		20	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		10	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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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
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)	0.2	mg/L		20	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	10	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)	0.2	mg/L		20	0.1	OK
MW-70	Chloride	10	mg/L		10	1	OK
MW-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-70	Chloroform	1	ug/L	U	1	1	OK
MW-70	Chloromethane	1	ug/L	U	1	1	OK
MW-70	Methylene chloride	1	ug/L	U	1	1	OK
MW-70	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-6 Trip Blank Evaluation

Lab Report	Constituent	Result
1603259	Carbon tetrachloride	ND ug/L
	Chloroform	ND ug/L
	Chloromethane	ND ug/L
	Methylene chloride	ND ug/L
1603400	Carbon tetrachloride	ND ug/L
	Chloroform	ND ug/L
	Chloromethane	ND ug/L
	Methylene chloride	ND ug/L
1603479	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	TW4-28	TW4-65	%RPD
Chloride (mg/L)	61.6	61.4	0.3
Nitrate + Nitrite (as N)	34.0	32.6	4.2
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	MW-32	TW4-70	%RPD
Chloride (mg/L)	36.7	36.4	0.8
Nitrate + Nitrite (as N)	ND	0.119	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
1603400	1603400-007BMS	TW4-36	Nitrate	112	111	90 - 110	0.72
1603400	1603400-021BMS	TW4-29	Nitrate	115	111	90 - 110	2.86
1603400	1603479-001BMS	TW4-06R	Nitrate	115	115	90 - 110	0.261
1603259	1603259-001BMS	TW4-25	Nitrate	119	105	90 - 110	11.50
1603259	1603290-001CMS	N/A	Nitrate	141	128	90 - 110	8.83
1603259	1603259-002BMS	TW4-24	Nitrate	89.2	88.1	90 - 110	0.735

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**

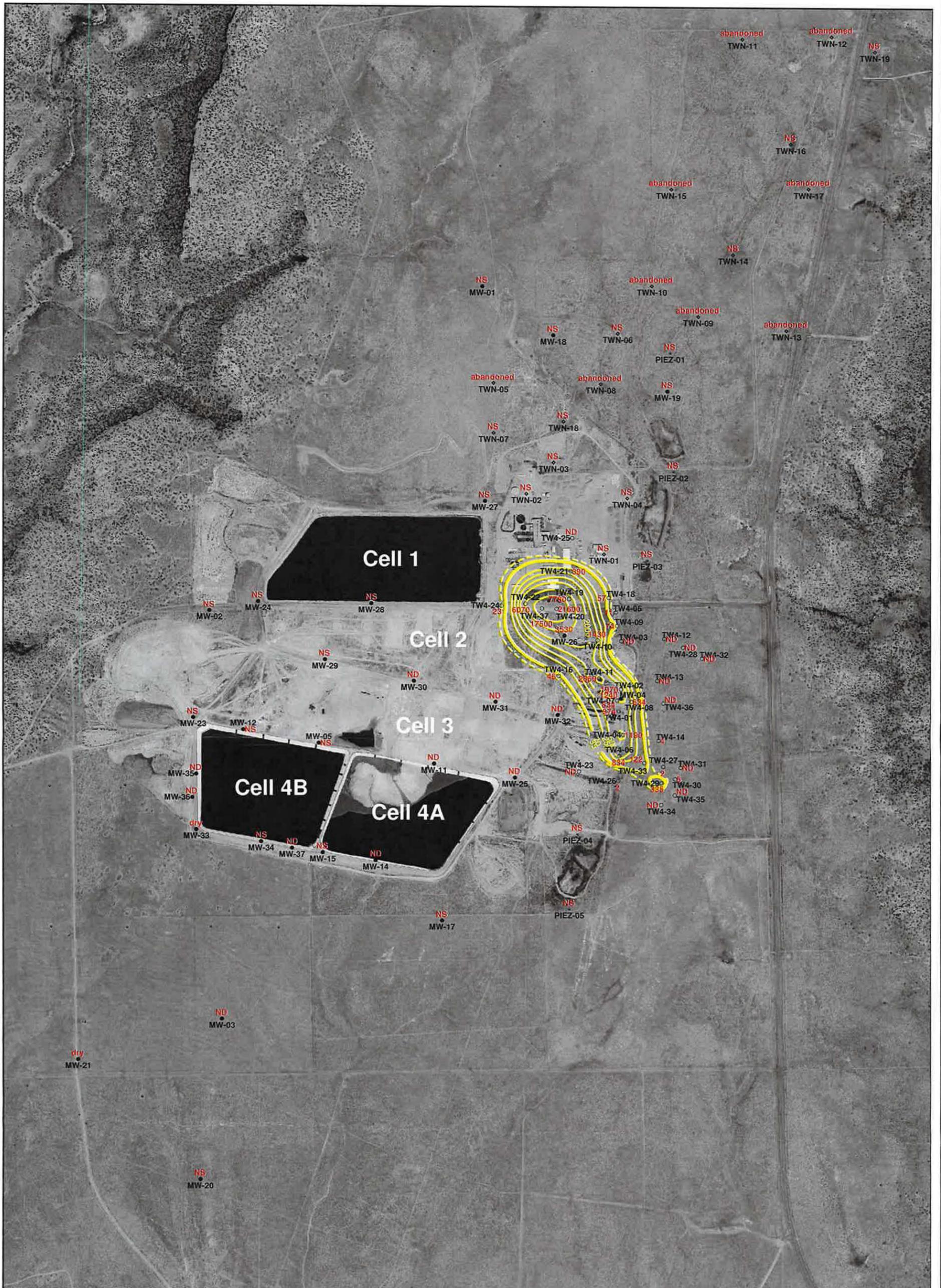
All Surrogate recoveries were within acceptance limits for the quarter.

## 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

-  70 kriged chloroform isocon and label
-  MW-32 perched monitoring well showing concentration in µg/L
-  TW4-7 temporary perched monitoring well showing concentration in µg/L
-  TWN-1 temporary perched nitrate monitoring well (not sampled)
-  PIEZ-1 perched piezometer (not sampled)

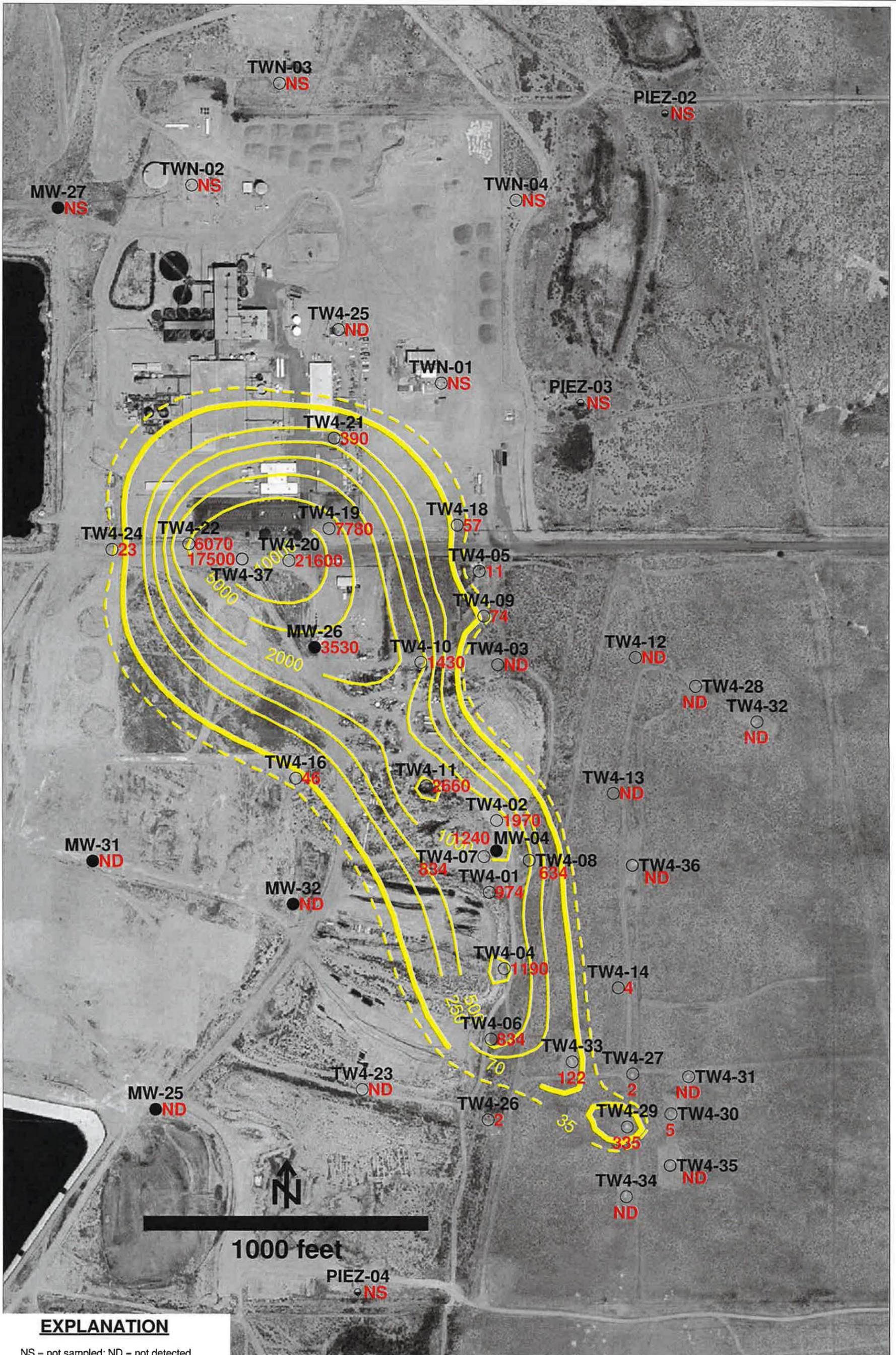
NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2016 CHLOROFORM (µg/L)  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/May16/chloroform/Uchl0316.srf	J-1



**EXPLANATION**

NS = not sampled; ND = not detected

- 70 kriged chloroform isocon and label
- 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)

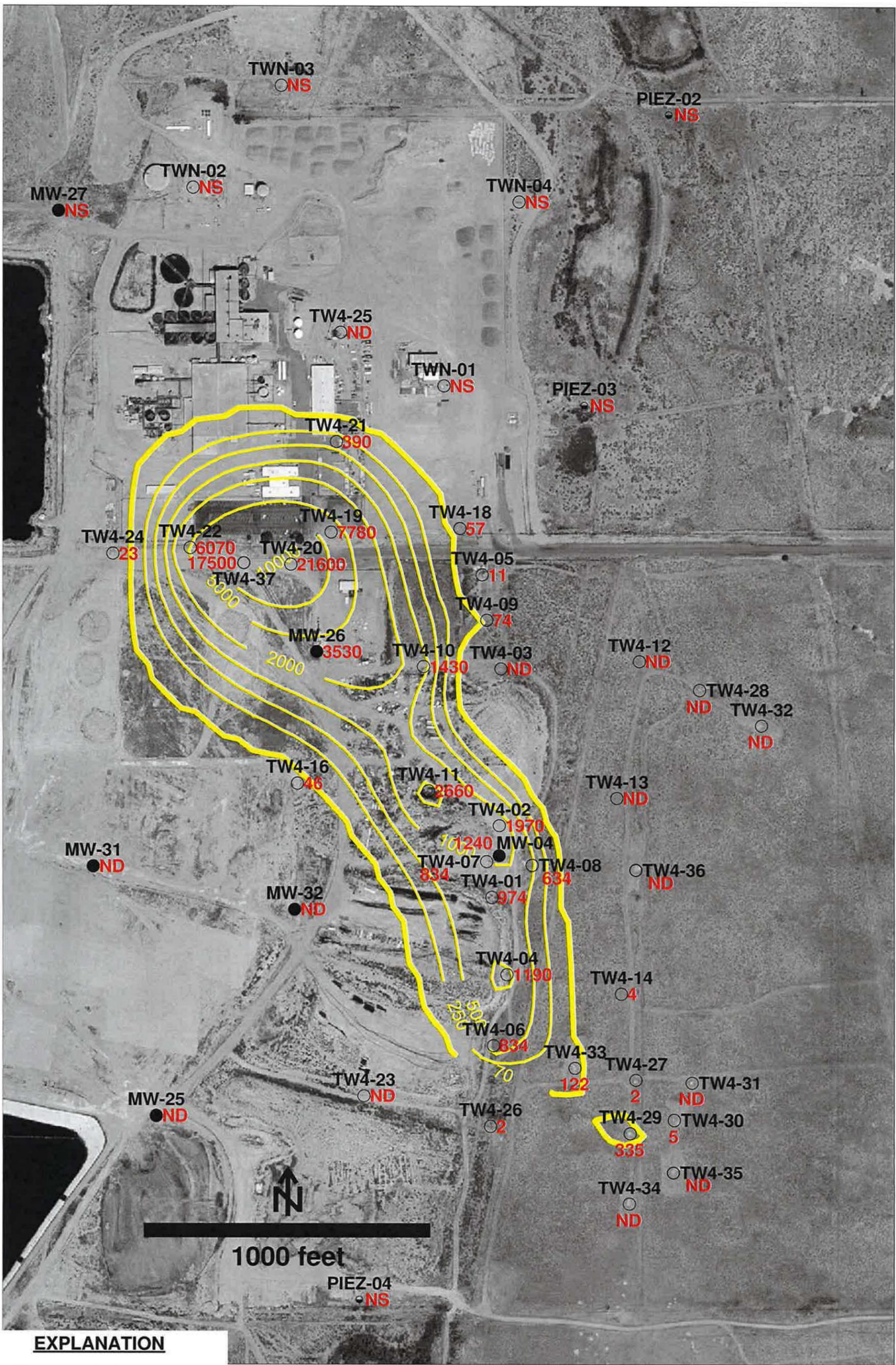
NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2016 CHLOROFORM (µg/L)  
WHITE MESA SITE  
(detail map)**

APPROVED	DATE	REFERENCE	H:/718000/ May16/chloroform/Uchl0316det.srf	FIGURE	J-2
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**EXPLANATION**

NS = not sampled; ND = not detected

- 70 kriged chloroform isocon and label
- 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)

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.**

**1st QUARTER, 2016 CHLOROFORM  
GREATER THAN OR EQUAL TO 70 µg/L GRID  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	H:718000/ May16/chloroform/Uchl0316ge70.srf	FIGURE J-3
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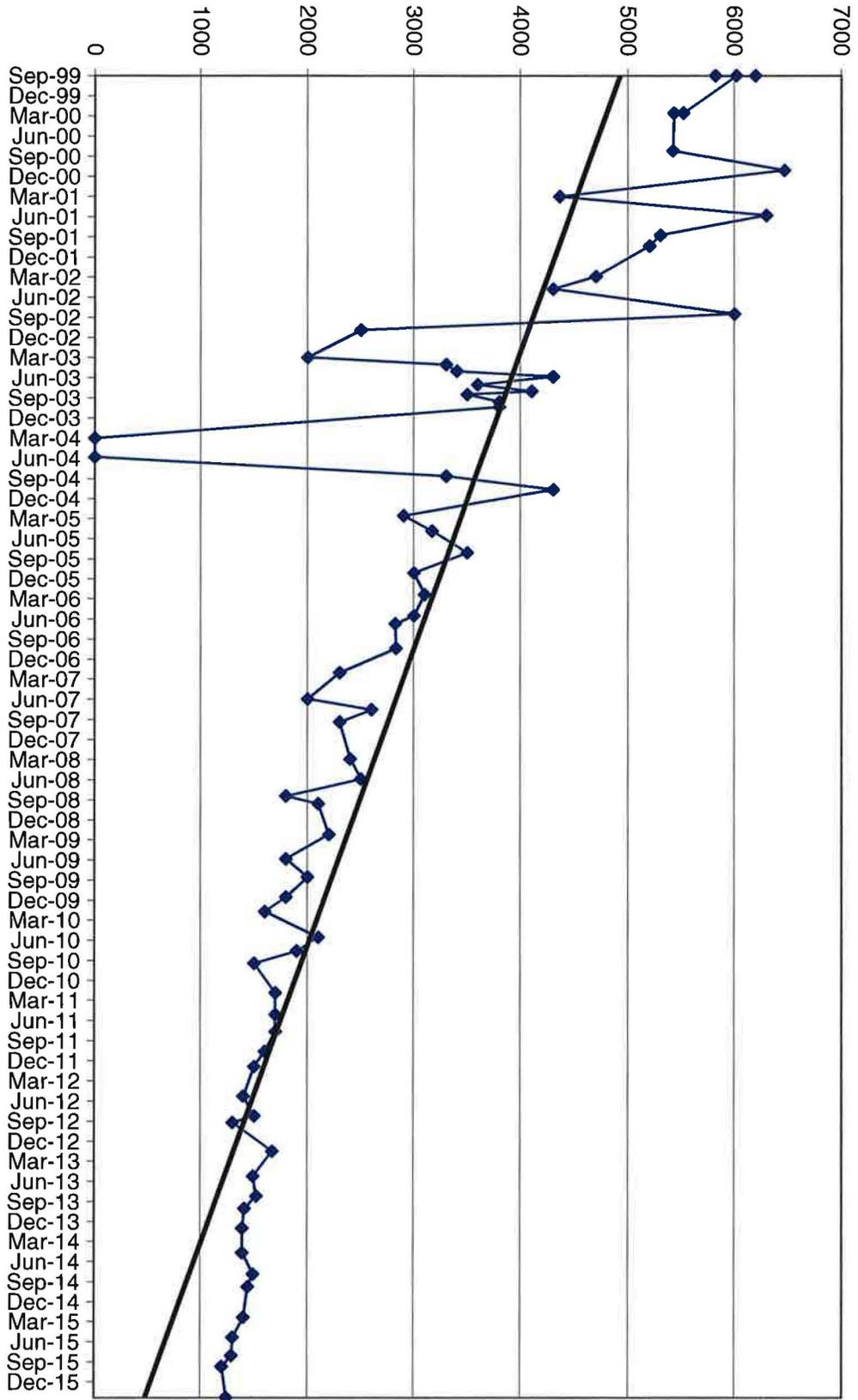
**Tab K**

**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
19-Oct-15	1200	ND	ND	ND	4.43	40.8
9-Mar-16	1240	ND	ND	ND	5.15	42.2

(ug/L)

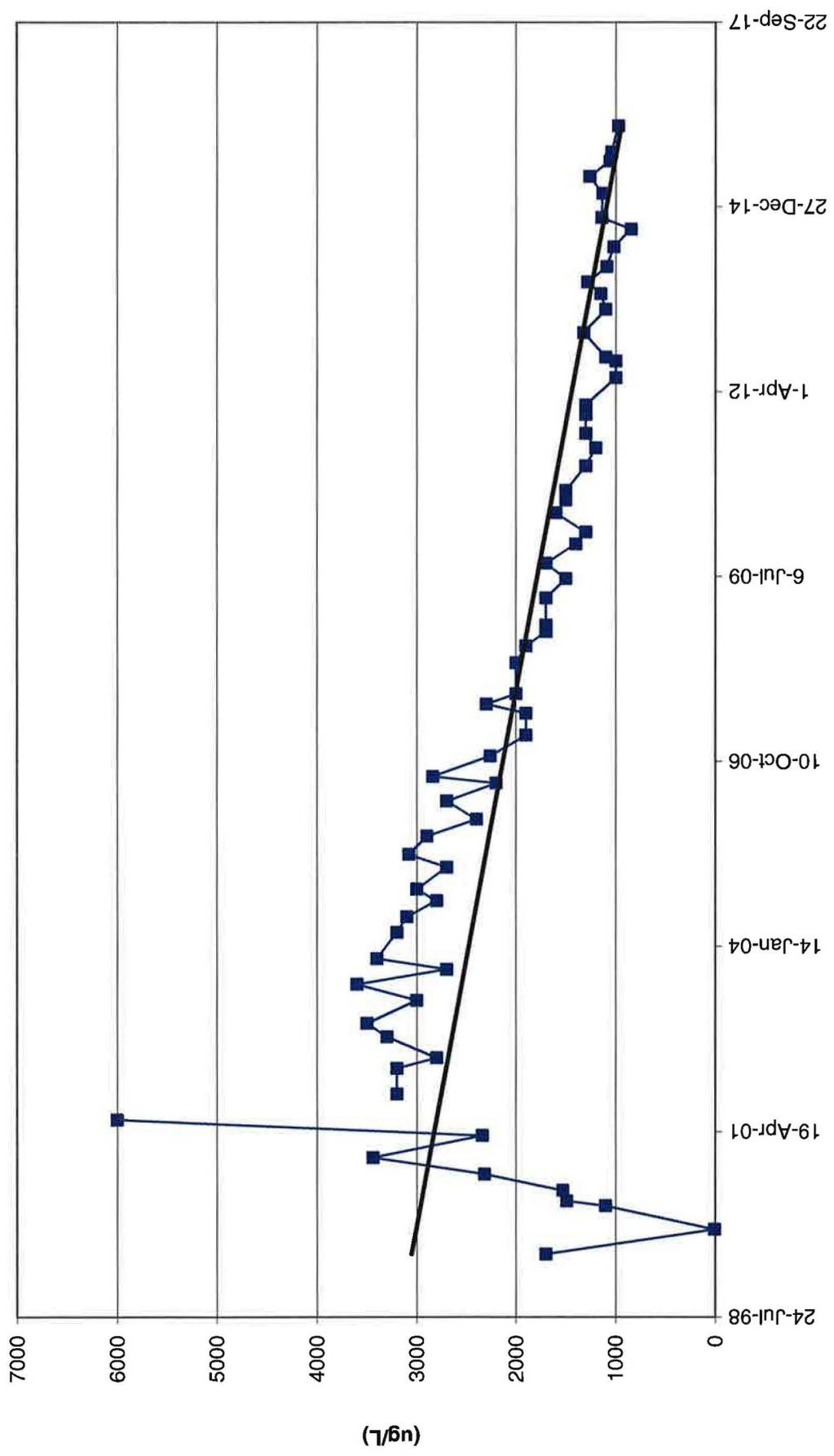


MW4-Chloroform Values

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
19-Oct-15	1040	ND	ND	ND	1.55	38.5
9-Mar-16	974	ND	ND	ND	0.148	41.7

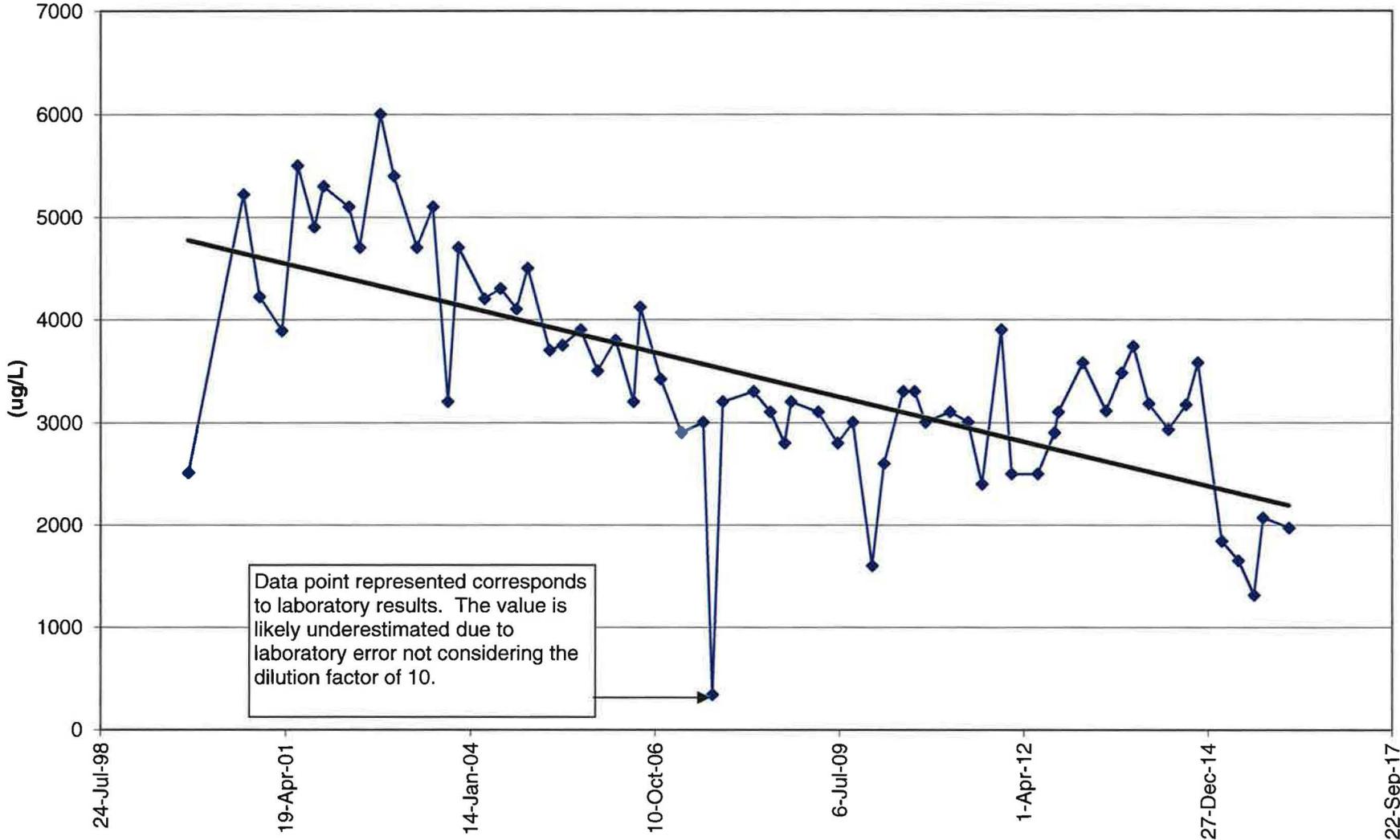
# TW4-1 Chloroform Values



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
19-Oct-15	2070	ND	ND	ND	5.18	41.9
9-Mar-16	1970	1.20	ND	ND	5.30	43.4

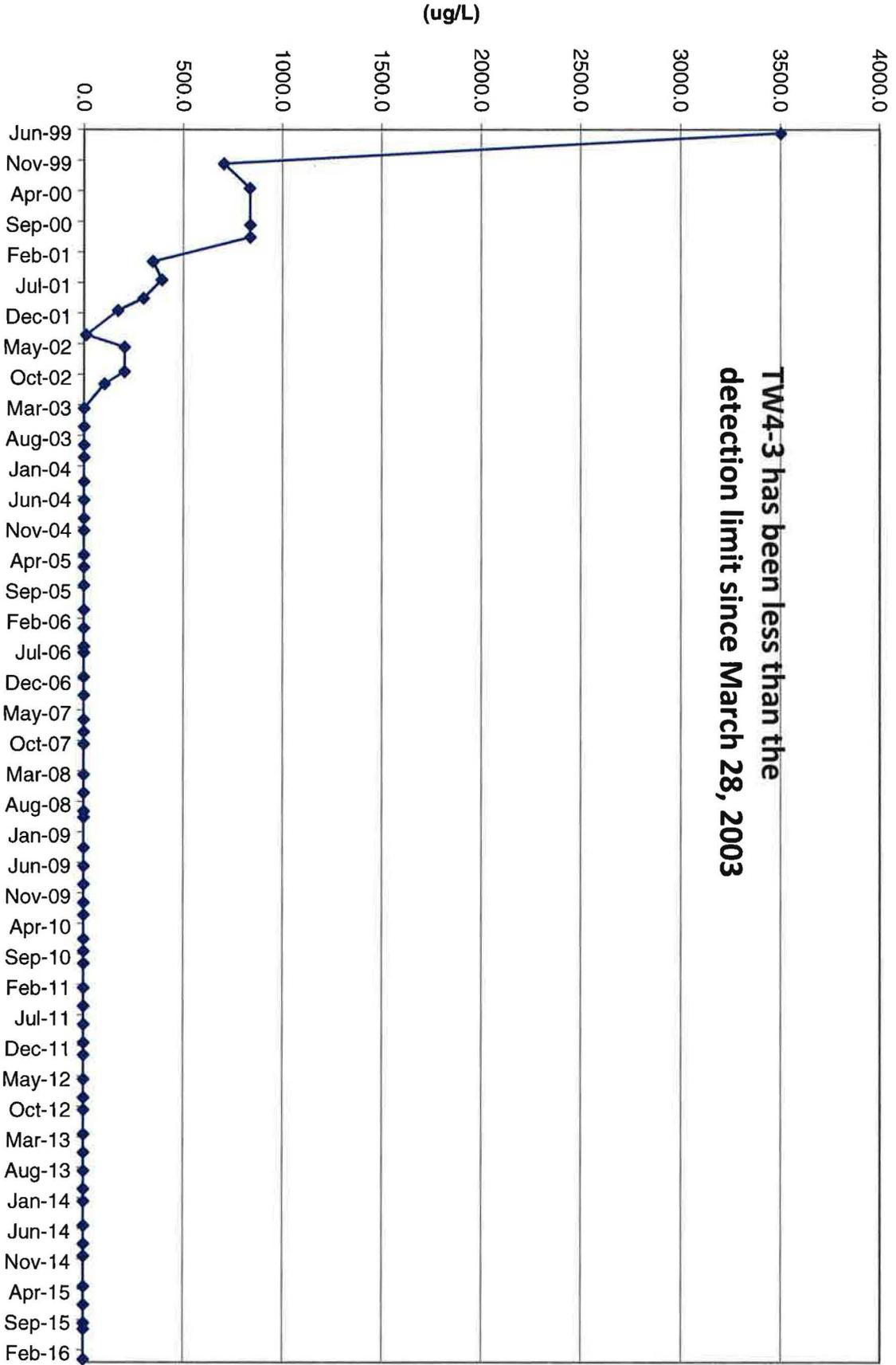
### TW4-2 Chloroform Values



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
21-Oct-15	ND	ND	ND	ND	5.37	25.6
15-Mar-16	ND	ND	ND	ND	5.83	32.8

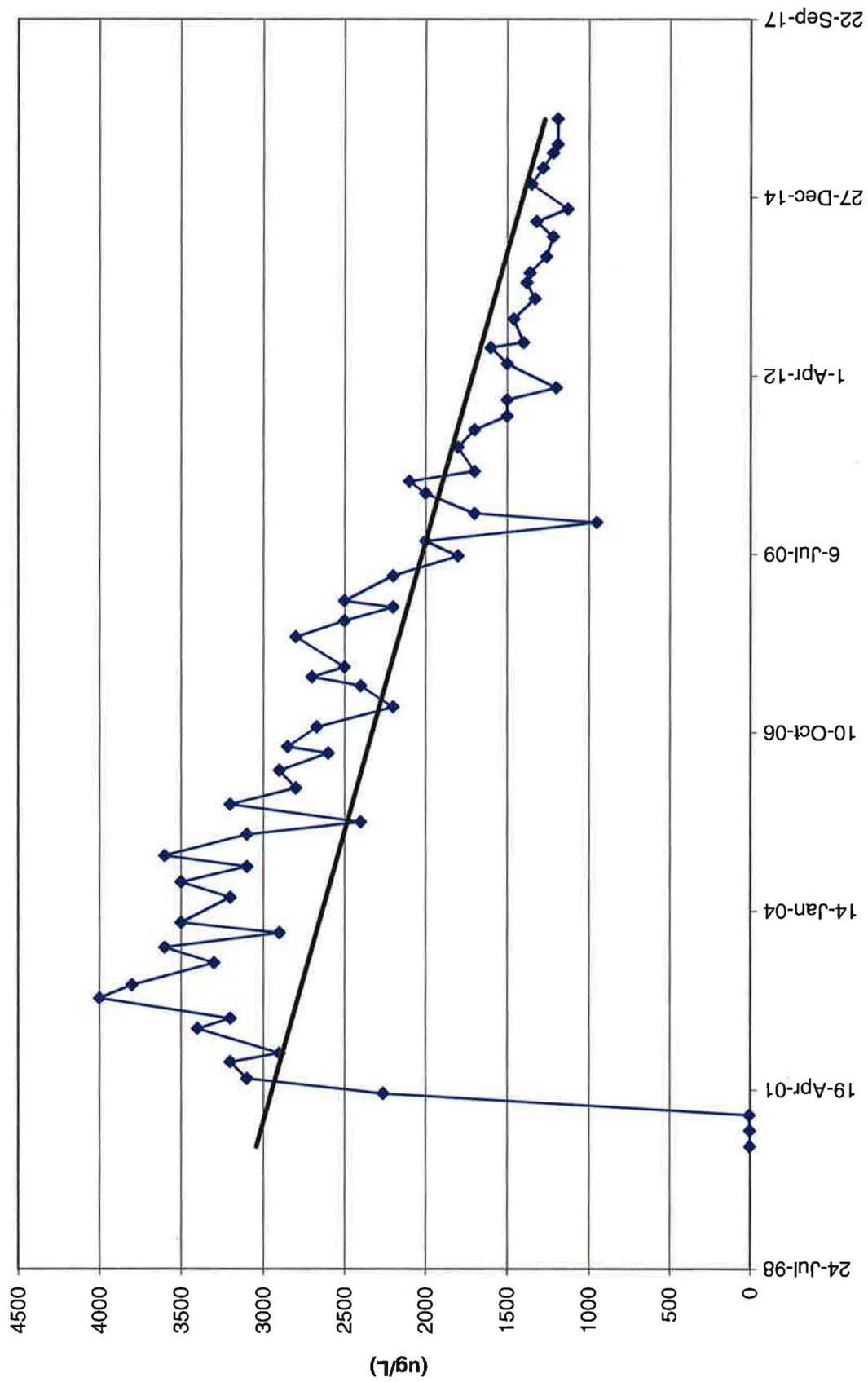
### TW4-3 Chloroform Values



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
19-Oct-15	1190	ND	ND	ND	6.27	38.5
9-Mar-16	1190	ND	ND	ND	6.71	39.7

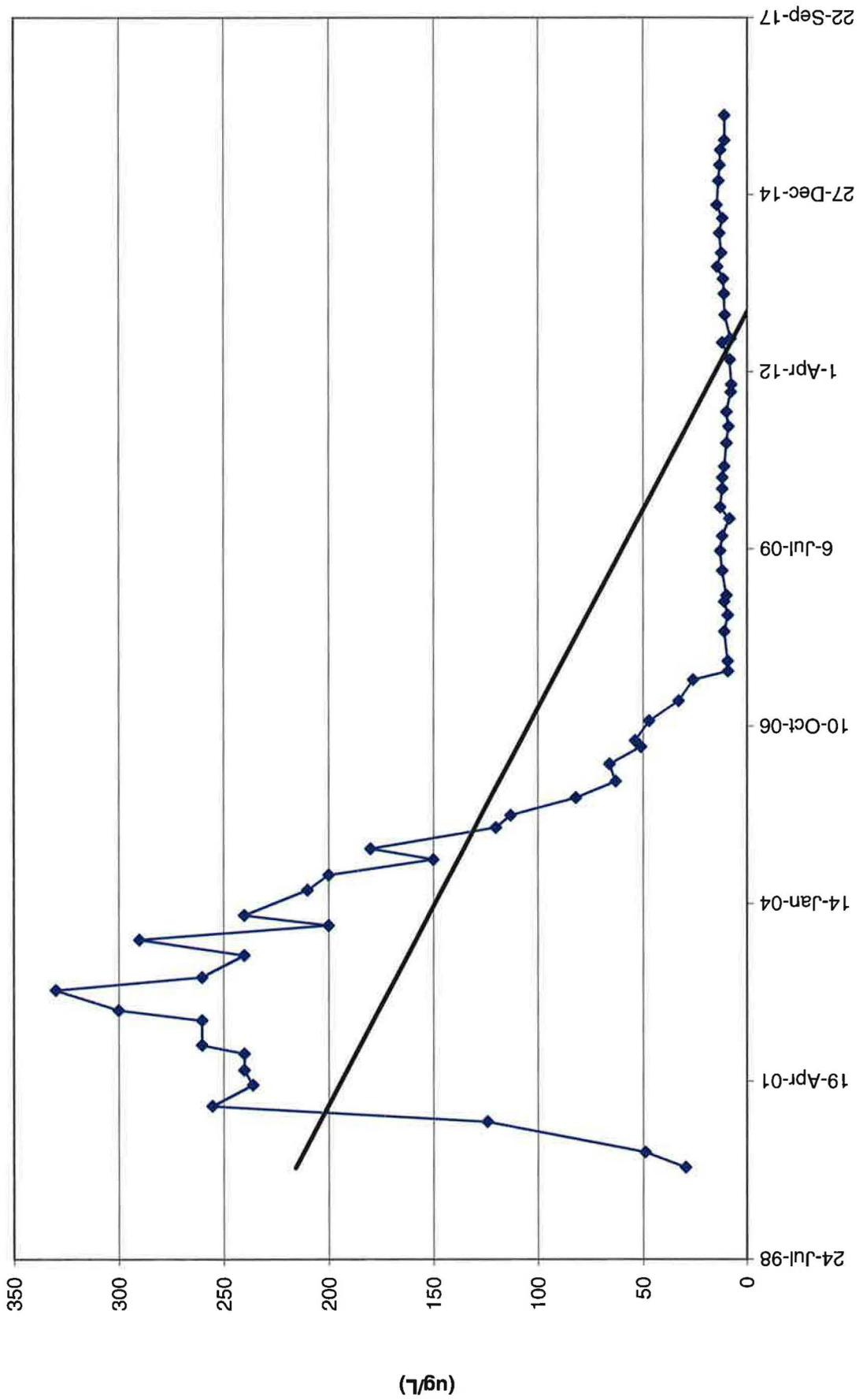
# TW4-4 Chloroform Values



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
28-Oct-15	11.0	ND	ND	ND	8.03	43.6
17-Mar-16	11.0	ND	ND	ND	10.2	44.7

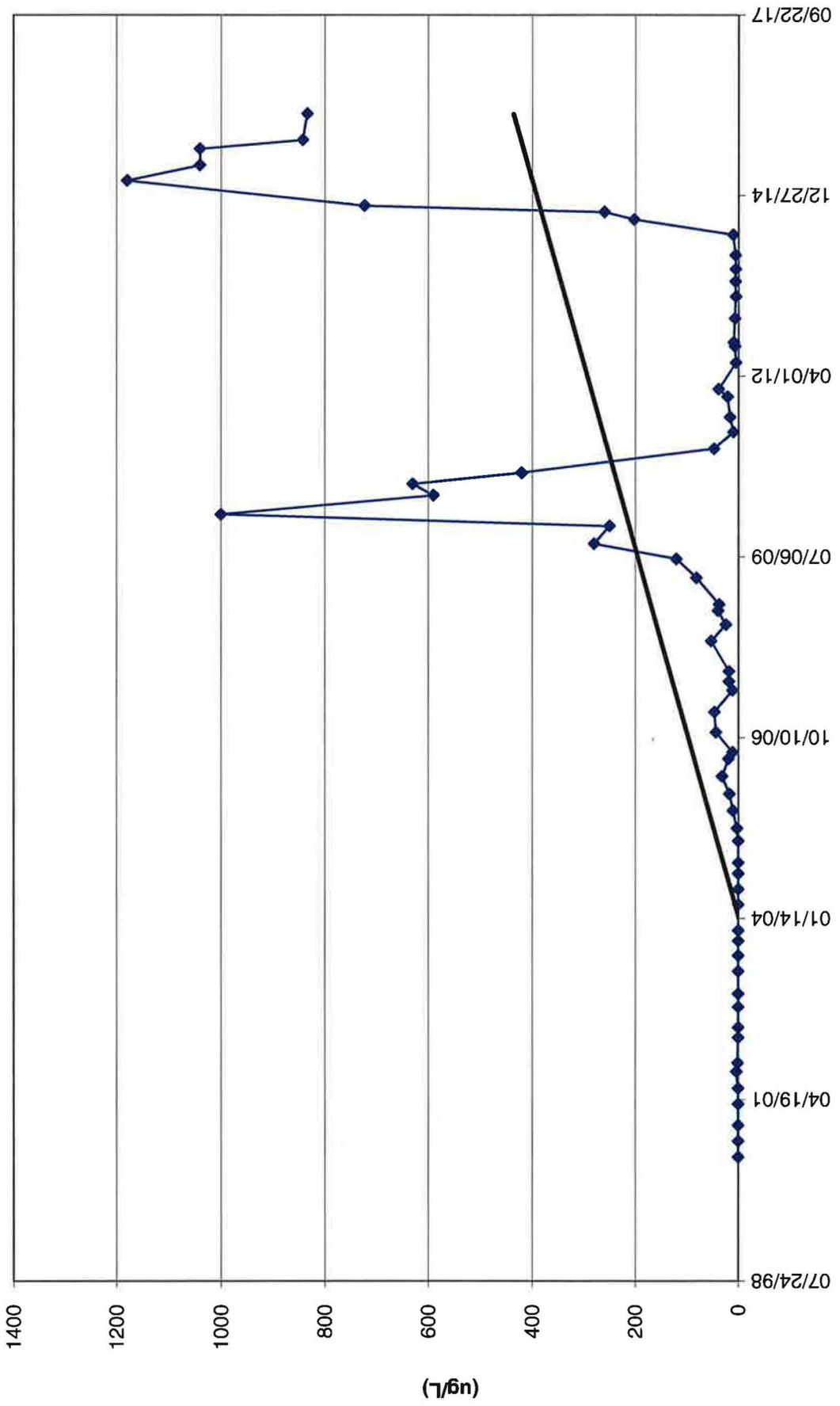
# TW4-5 Chloroform Values



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
29-Oct-15	843.0	ND	ND	ND	5.61	40.2
22-Mar-16	834.0	ND	ND	ND	6.79	42.0

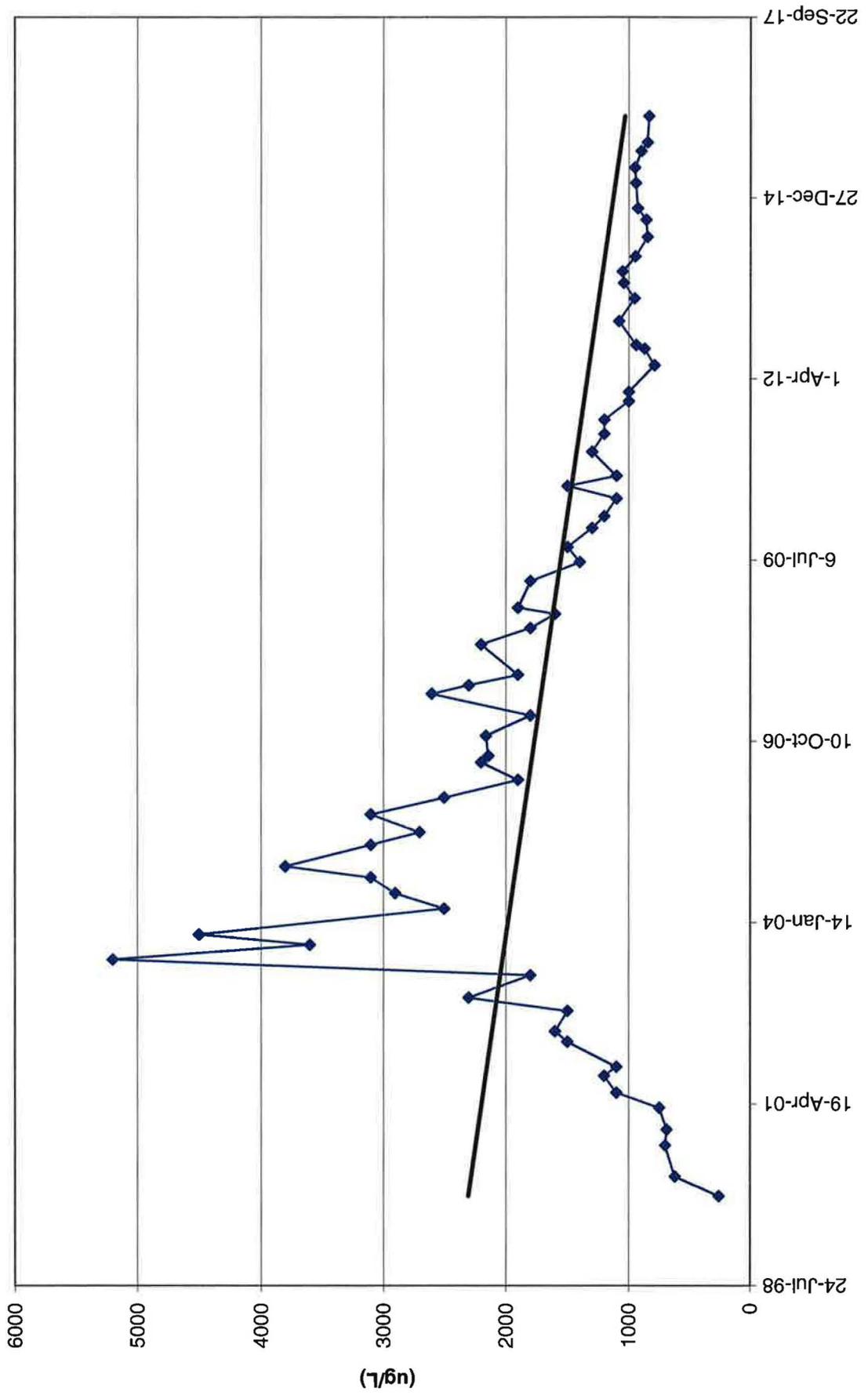
TW4-6 Chloroform Values



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

<b>TW4-7</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
29-Oct-15	847	ND	ND	ND	3.49	40.6
22-Mar-16	834	ND	ND	ND	4.43	42.4

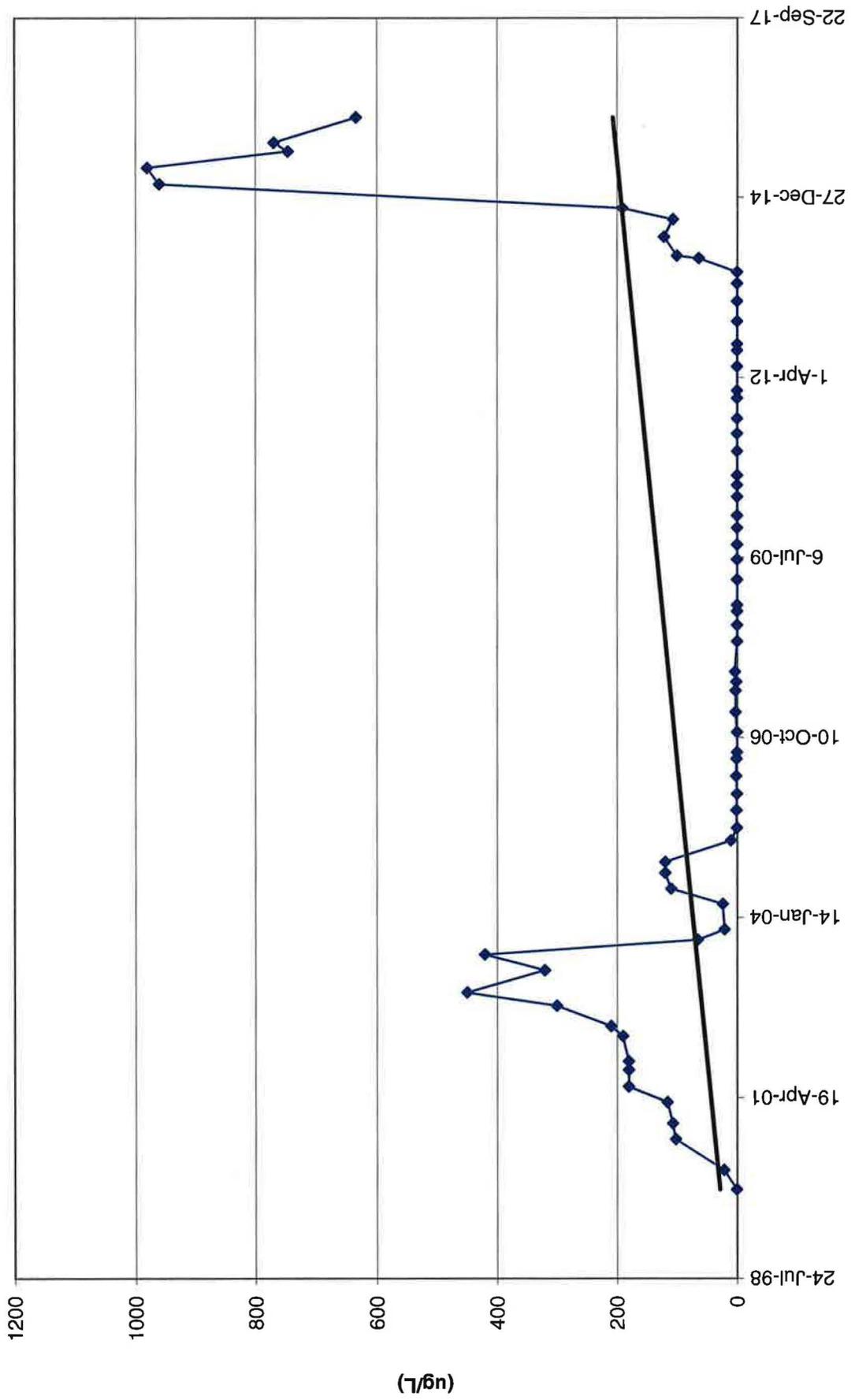
# TW4-7 Chloroform Values



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
29-Oct-15	770	ND	ND	ND	2.2	52.0
17-Mar-16	634	ND	ND	ND	2.48	54.2

# 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

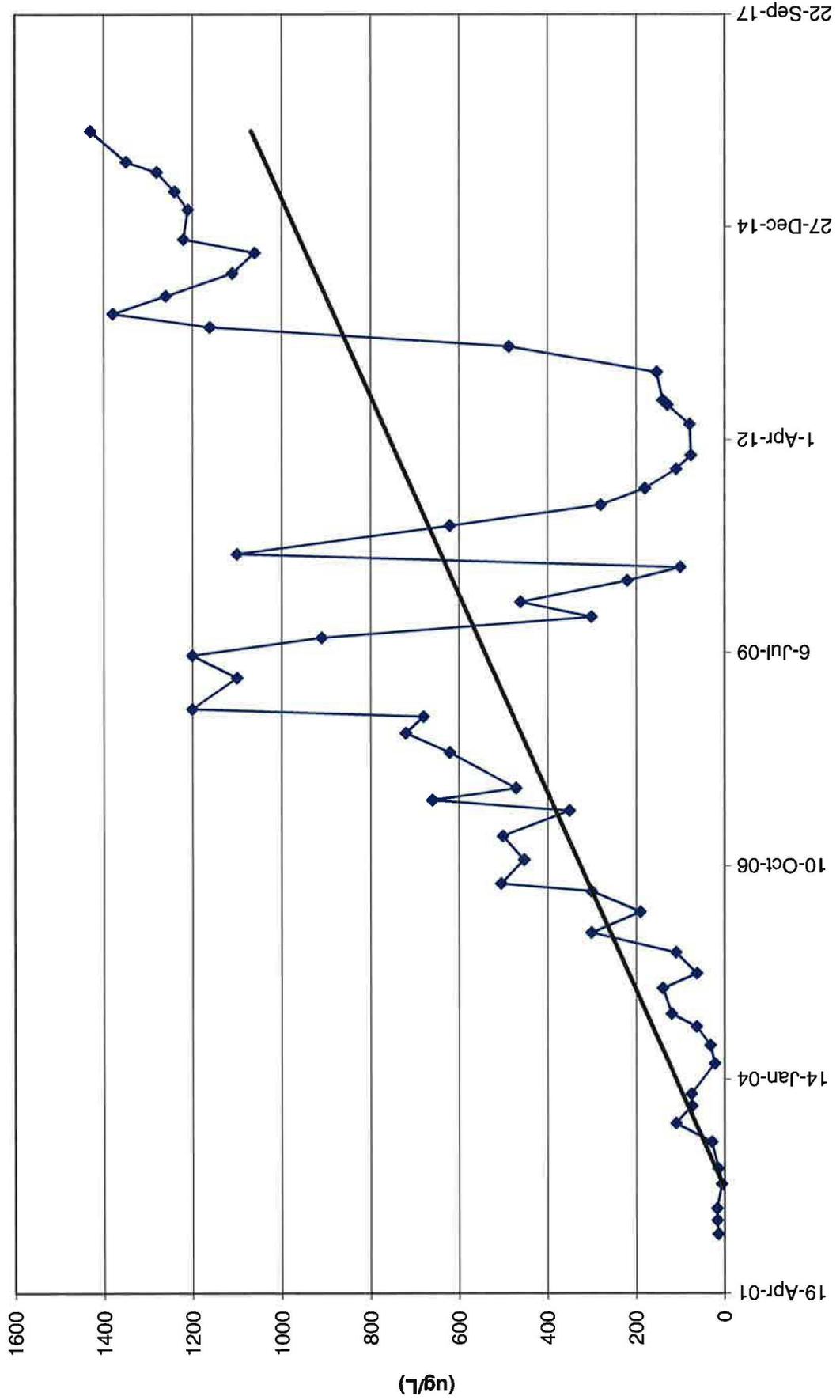
TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
25-May-11	ND	ND	ND	ND	3.4	38
16-Aug-11	ND	ND	ND	ND	4	21
7-Dec-11	ND	ND	ND	ND	2.3	38
18-Jan-12	ND	ND	ND	ND	2.3	28
31-May-12	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
28-Oct-15	68.4	ND	ND	ND	2.89	29.2
17-Mar-16	74.3	ND	ND	ND	2.51	33.6



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
29-Oct-15	1350	ND	ND	ND	13.5	79.9
22-Mar-16	1430	ND	ND	ND	17.3	84.1

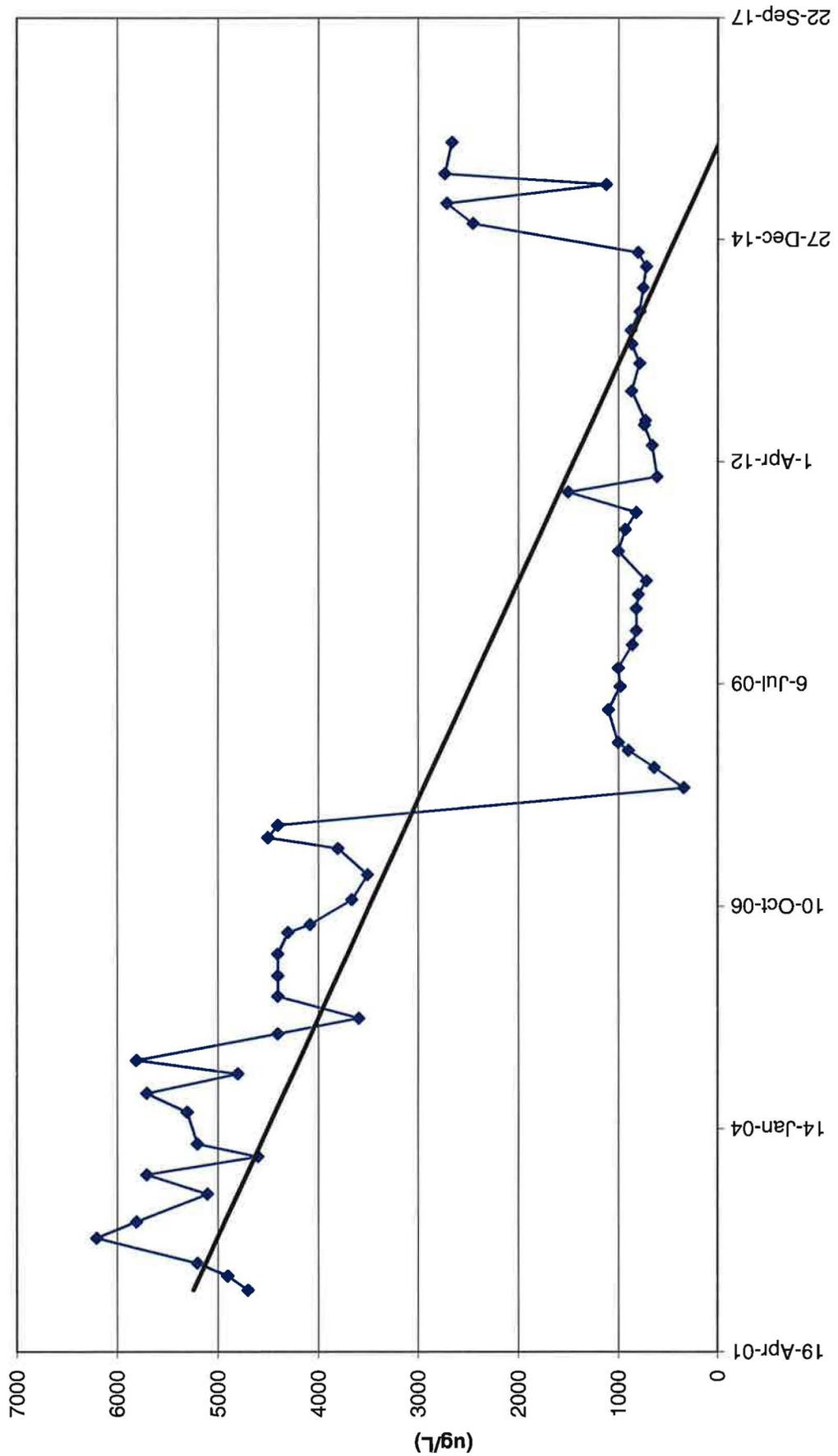
# TW4-10 Chloroform Values



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
19-Oct-15	2730	ND	ND	ND	7.5	55.3
9-Mar-16	2660	1.2	ND	ND	7.13	55.5

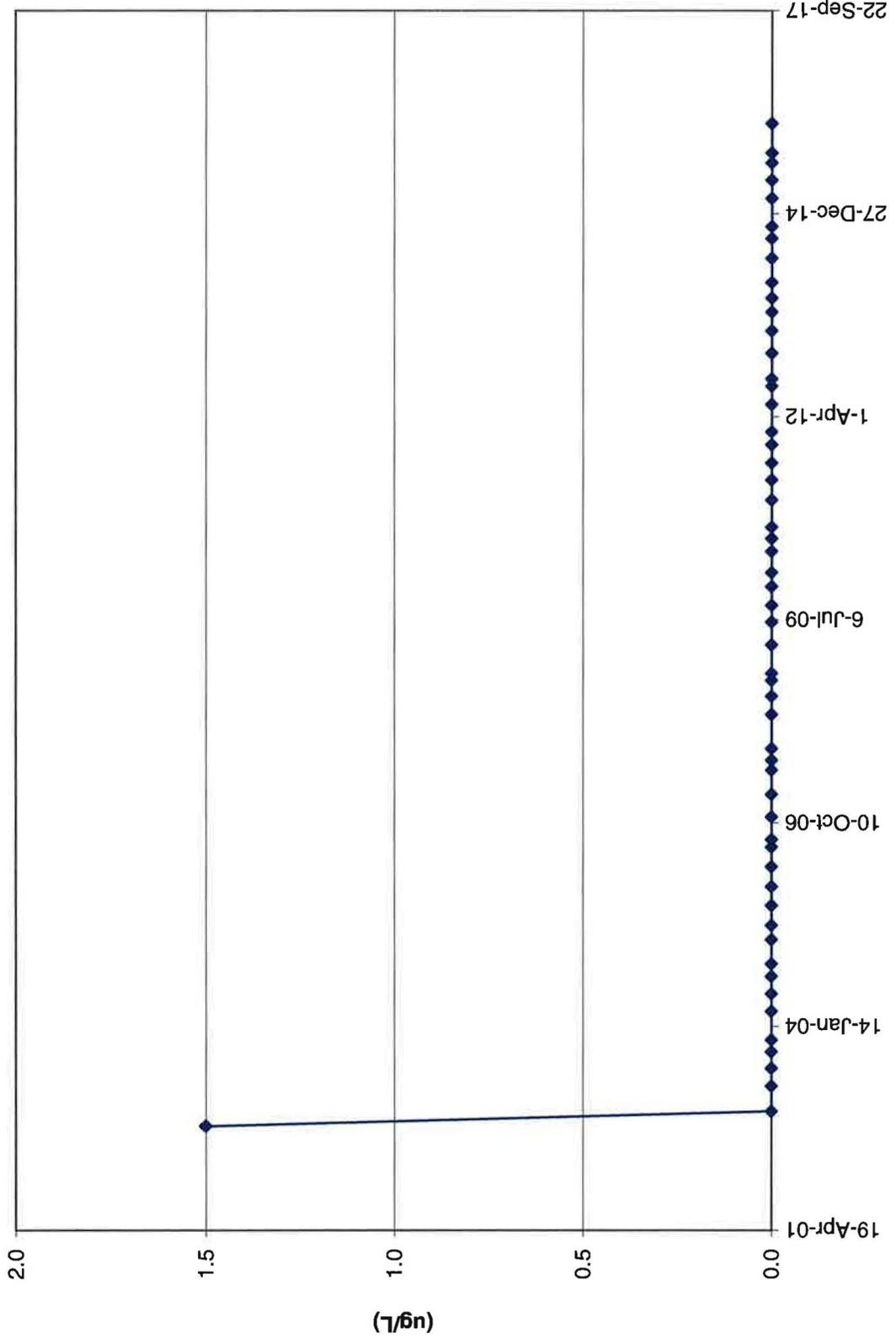
# TW4-11 Chloroform Values



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

<b>TW4-12</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
21-Oct-15	ND	ND	ND	ND	18	51.0
15-Mar-16	ND	ND	ND	ND	34.8	56.2

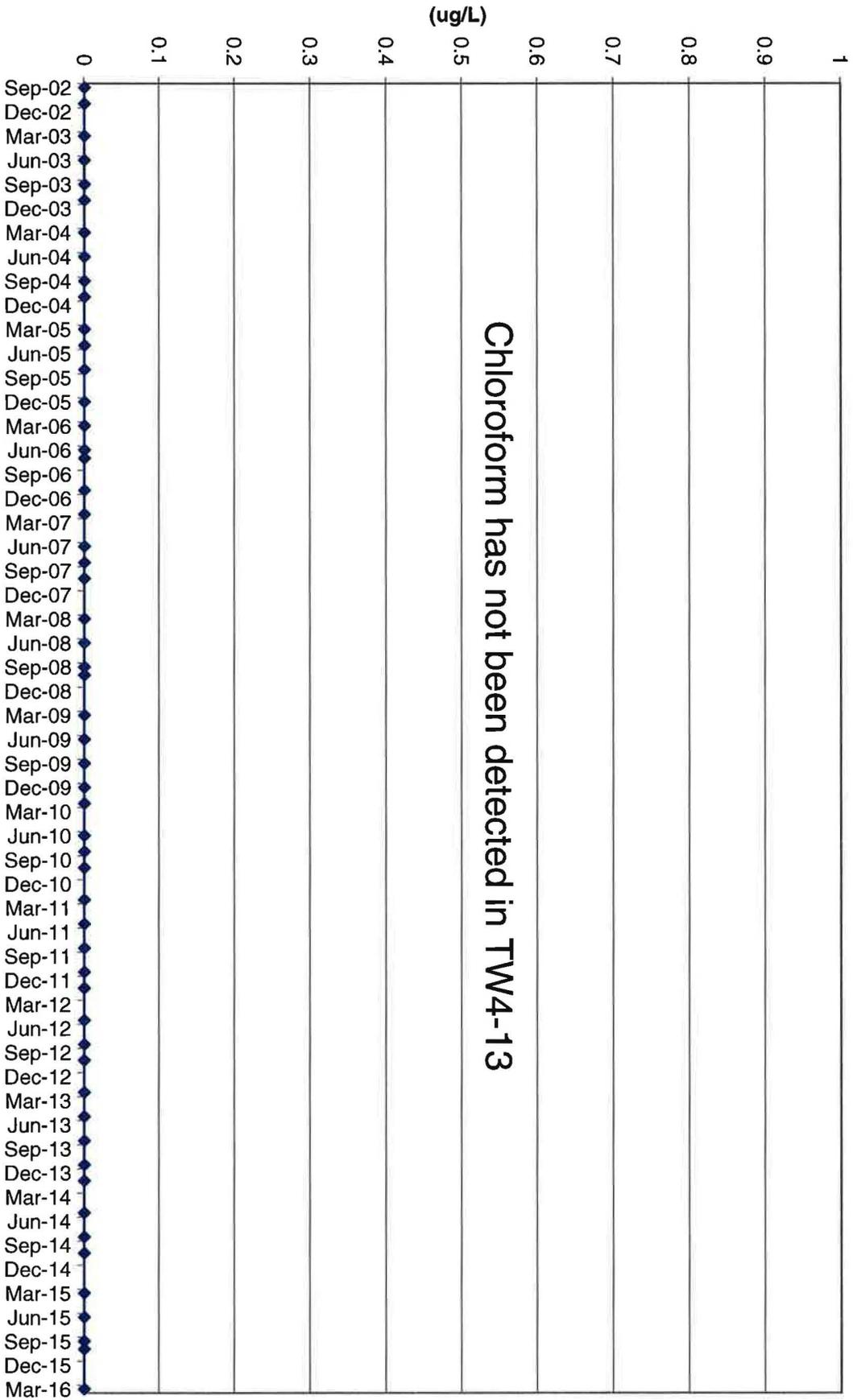
# TW4-12 Chloroform Values



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

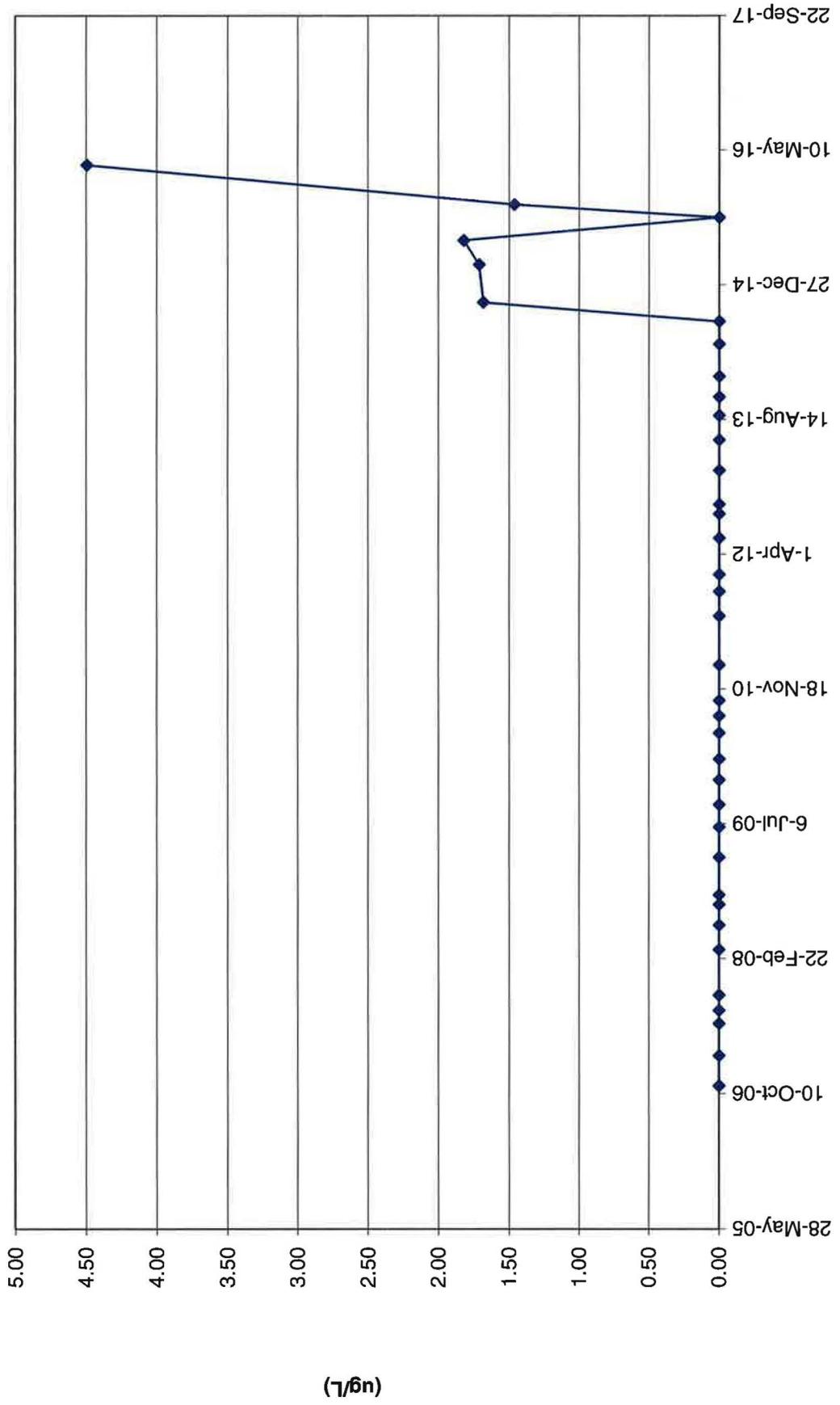
<b>TW4-13</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
29-Aug-13	ND	ND	ND	ND	7.16	63.5
6-Nov-13	ND	ND	ND	ND	6.48	58.5
22-Jan-14	ND	ND	ND	ND	7.09	63.1
21-May-14	ND	ND	ND	ND	5.99	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
21-Oct-15	ND	ND	ND	ND	5.78	65.5
16-Mar-16	ND	ND	ND	ND	7.97	69.4

**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
21-Oct-15	1.46	ND	ND	ND	2.45	40.6
16-Mar-16	4.49	ND	ND	2.18	2.94	42.4

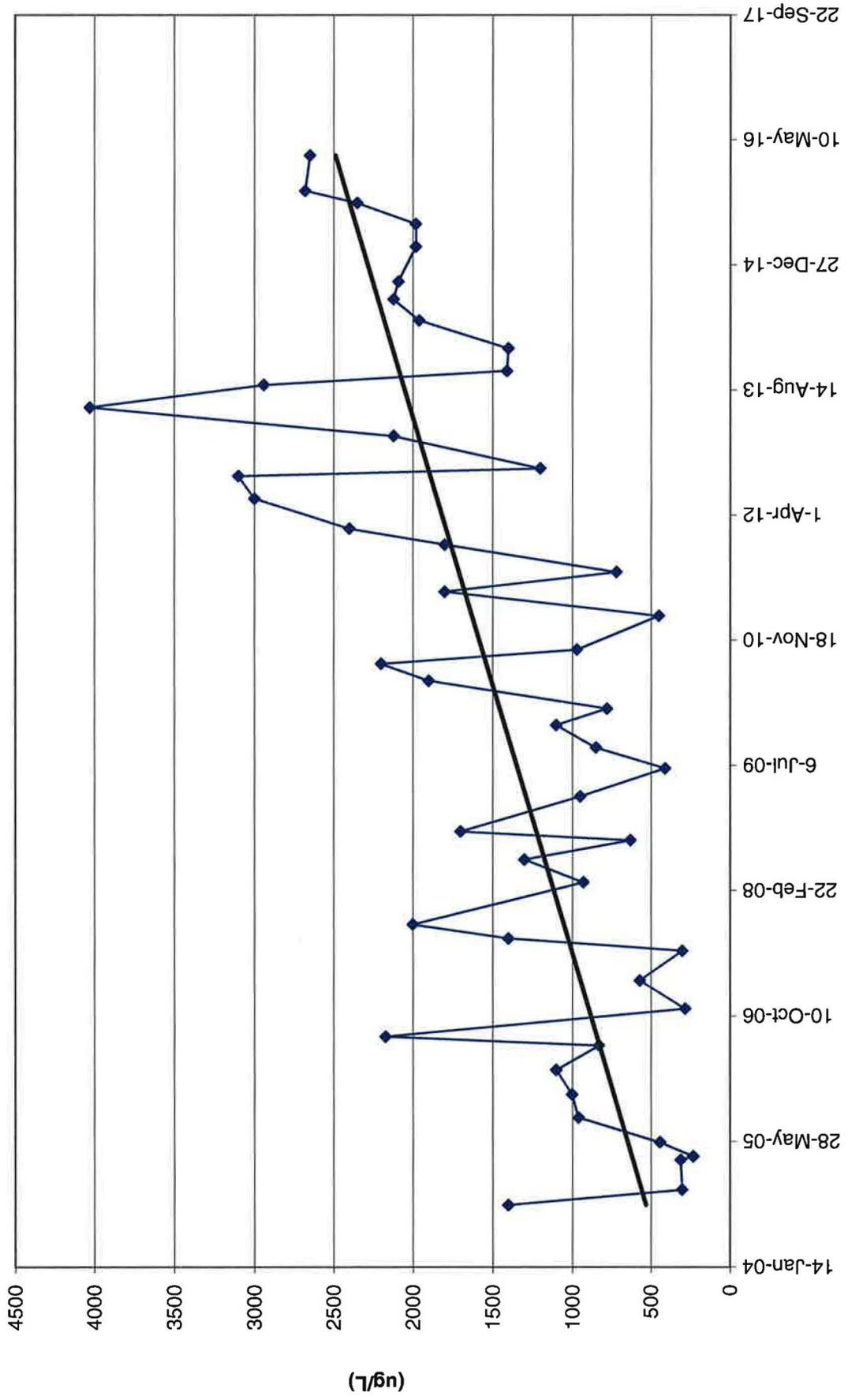
# TW4-14 Chloroform Values



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
19-Oct-15	2680	ND	1.32	8.28	0.991	62.6
9-Mar-16	2650	ND	1.32	4.66	1.45	68.3

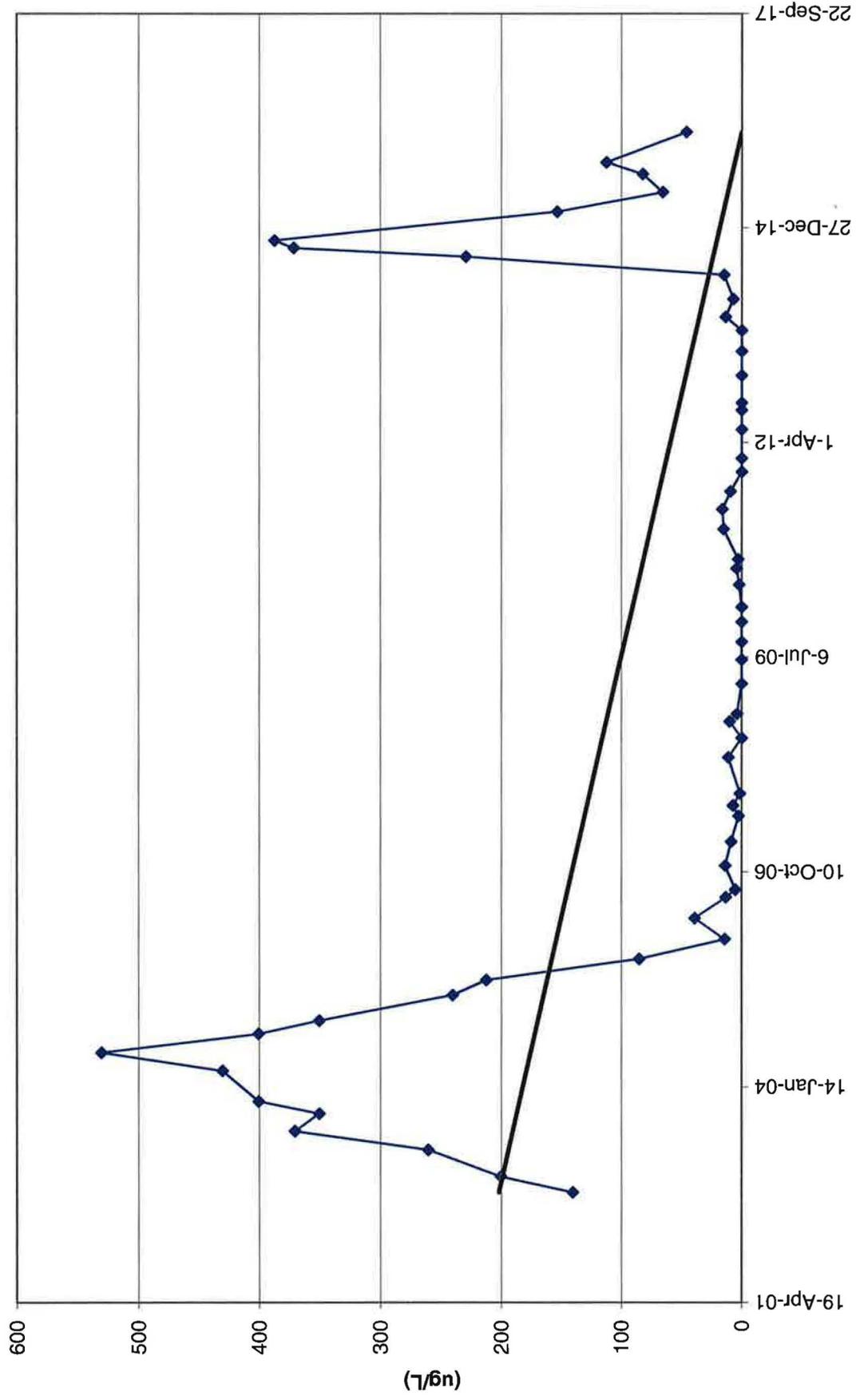
# MW-26 Chloroform Values



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
28-Oct-15	112.0	ND	ND	ND	1.69	58.3
17-Mar-16	45.9	ND	ND	ND	1.63	56.5

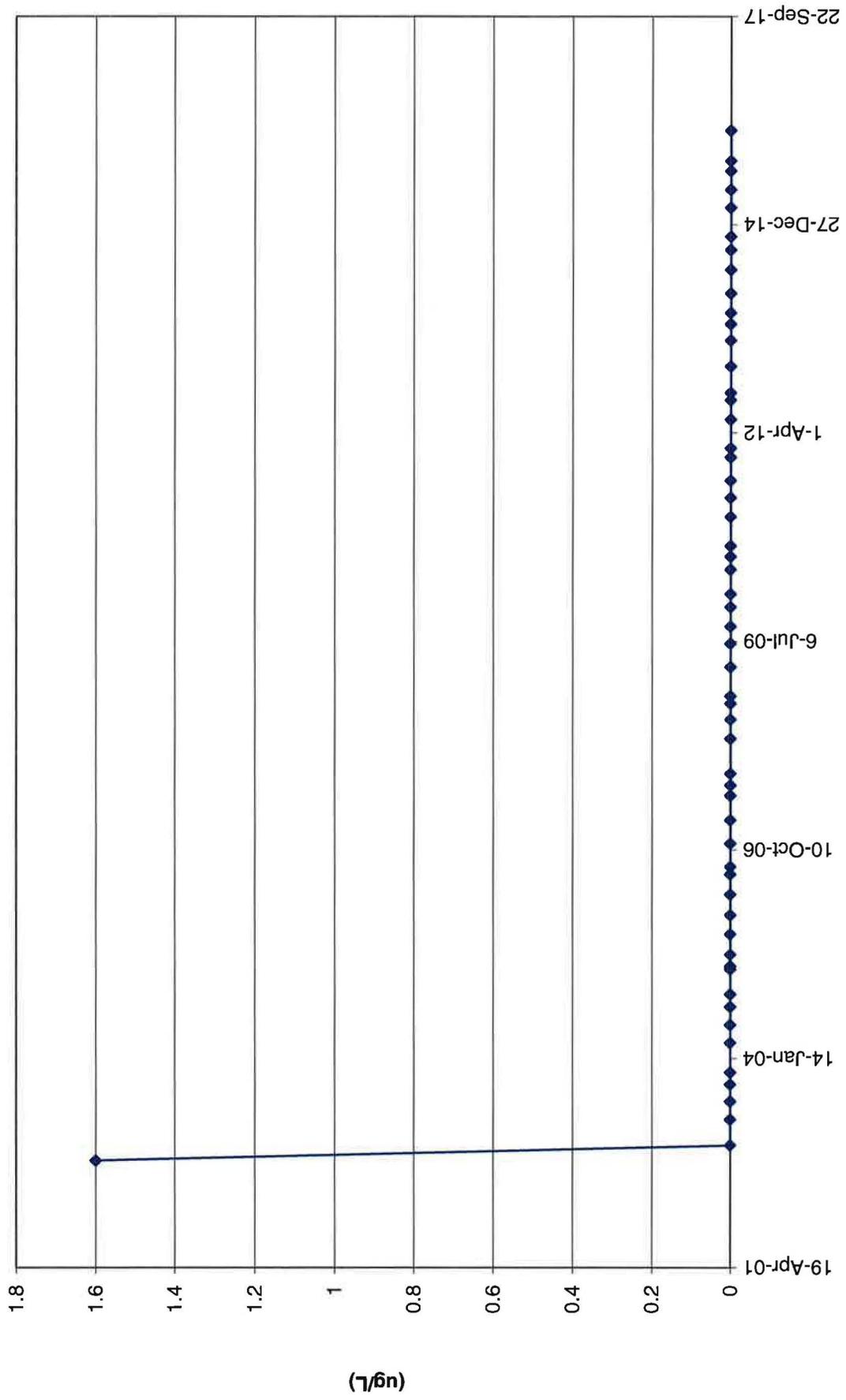
# TW4-16 Chloroform Values



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
28-Oct-15	ND	ND	ND	ND	ND	34.7
22-Mar-16	ND	ND	ND	ND	ND	36.7

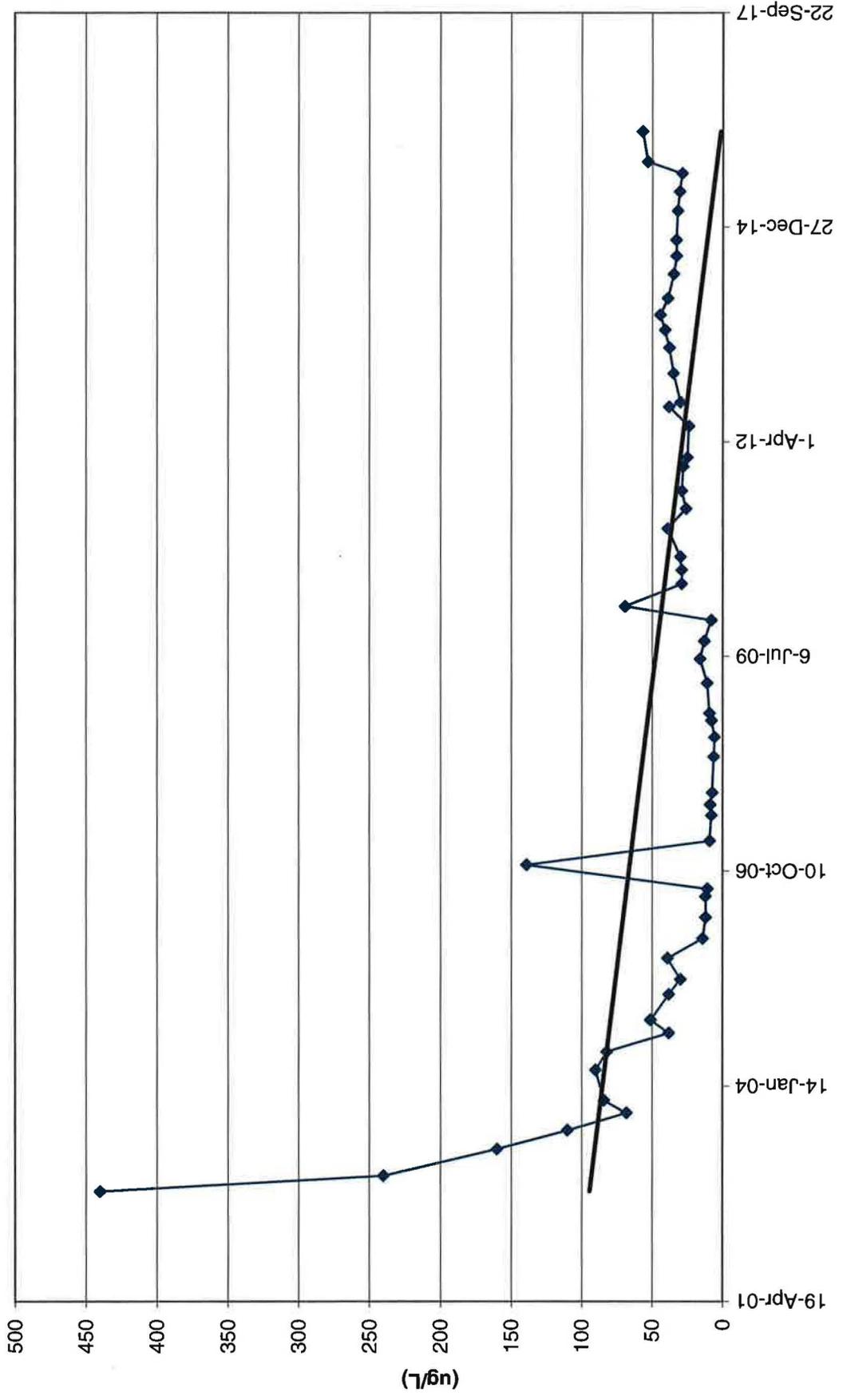
# MW-32 Chloroform Values



<b>TW4-18</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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

<b>TW4-18</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
28-Oct-15	52.9	ND	ND	ND	6.24	39.4
17-Mar-16	56.6	ND	ND	ND	5.96	40.7

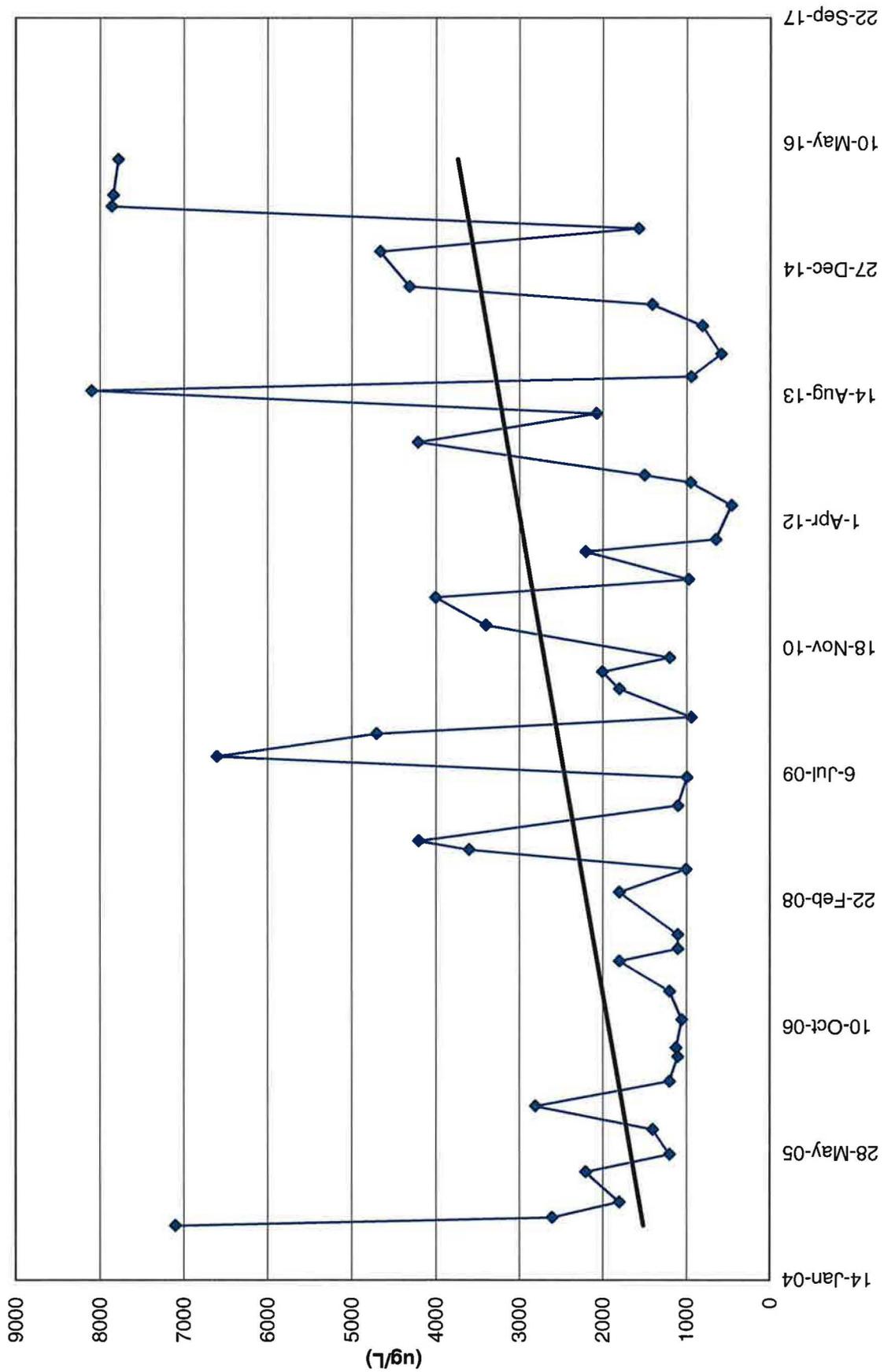
# TW4-18 Chloroform Values



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
19-Oct-15	7840	12.2	5.46	ND	10.6	252
9-Mar-16	7780	13.5	1.40	ND	15.7	276

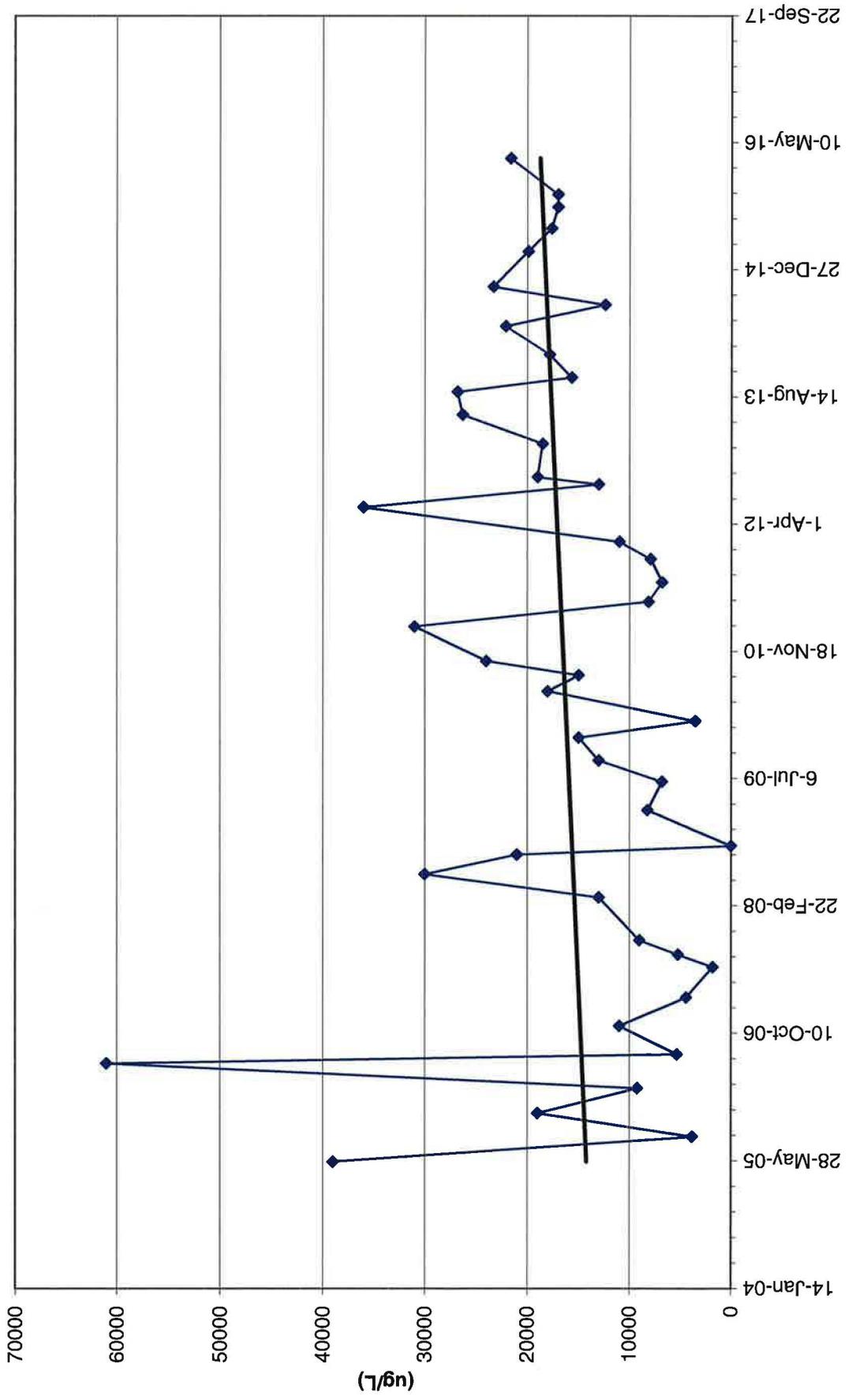
# TW4-19 Chloroform Values



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
19-Oct-15	17000	14.5	10.8	1	6.23	293

<b>TW4-20</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
9-Mar-16	21600	20.2	4.09	1.16	10.3	293

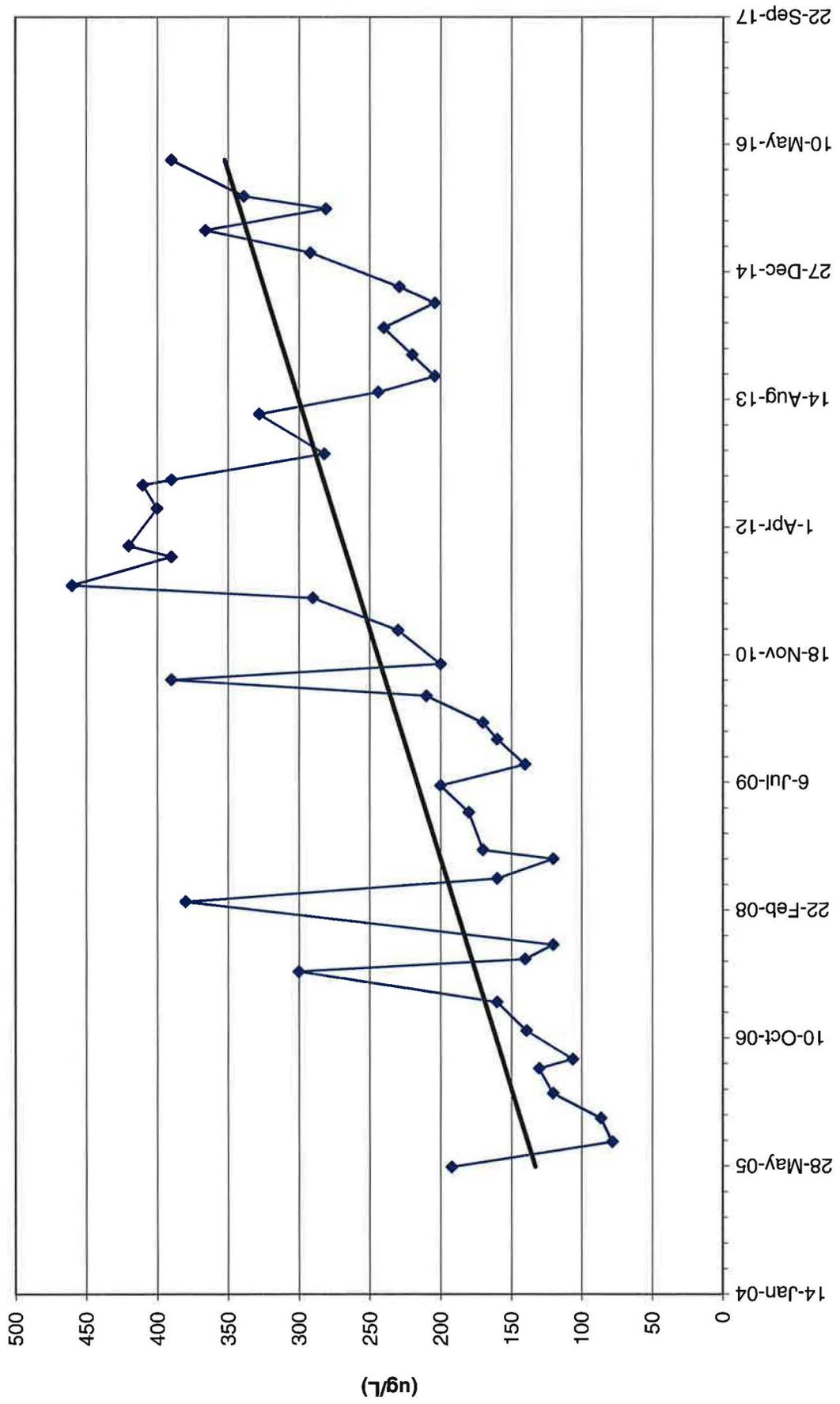
# TW4-20 Chloroform Values



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
19-Oct-15	339	ND	ND	ND	14.3	413

<b>TW4-21</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
9-Mar-16	390	ND	ND	ND	14.6	452

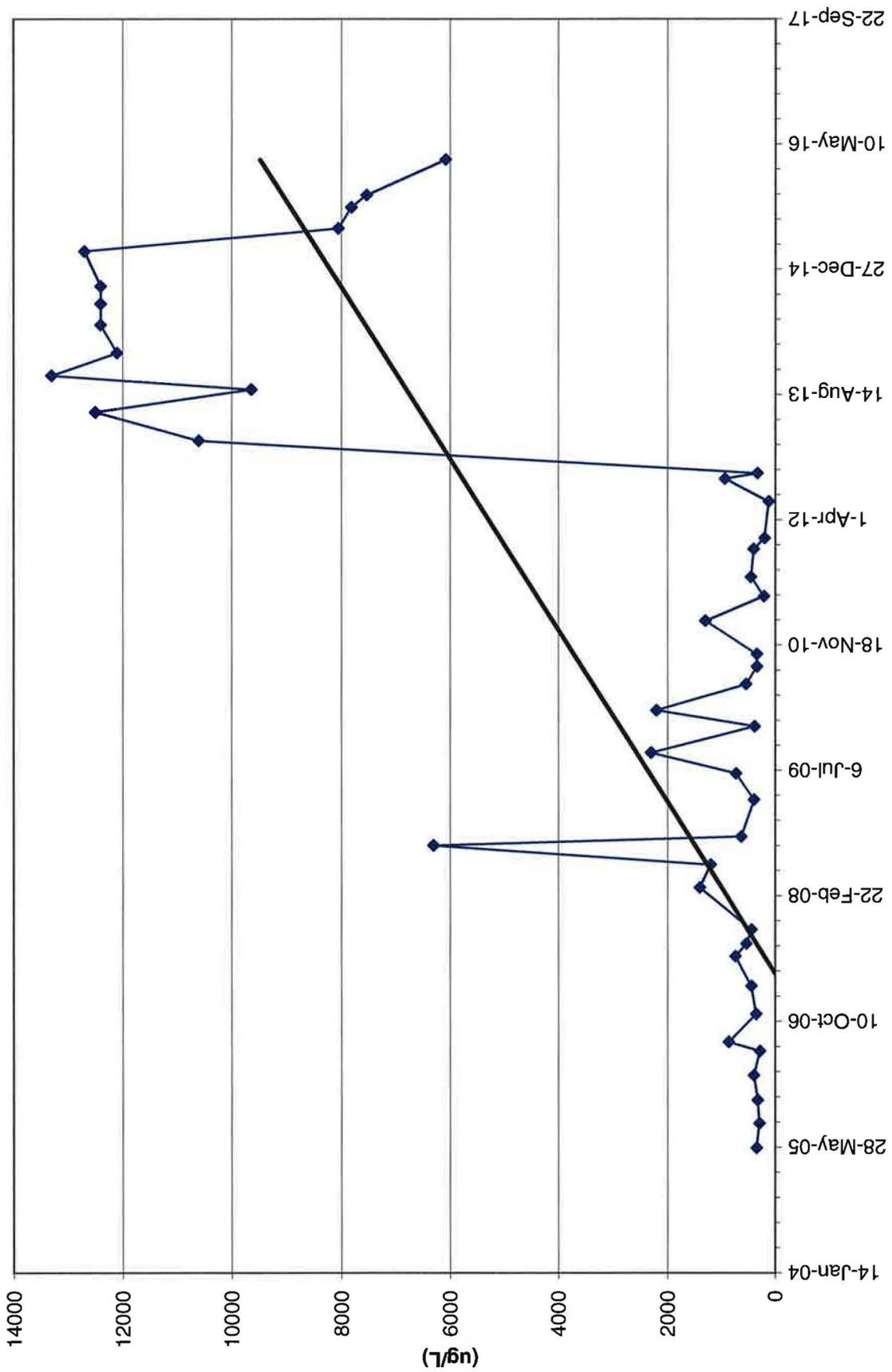
# TW4-21 Chloroform Values



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
19-Oct-15	7530	ND	5.1	ND	56.1	567

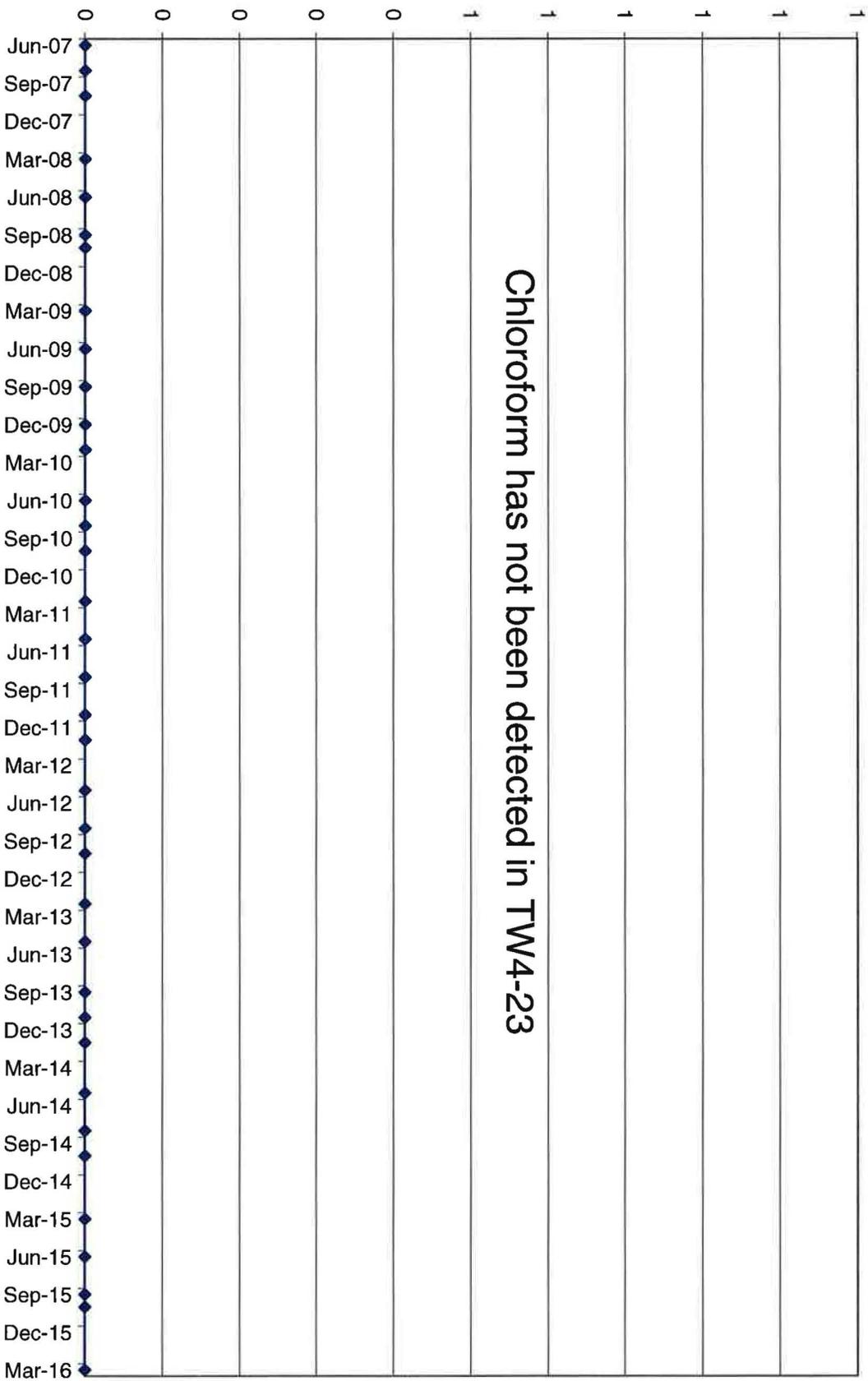
<b>TW4-22</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
9-Mar-16	6070	ND	ND	ND	31.1	583

# 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
28-Oct-15	ND	ND	ND	ND	ND	46.4
16-Mar-16	ND	ND	ND	ND	ND	49.1

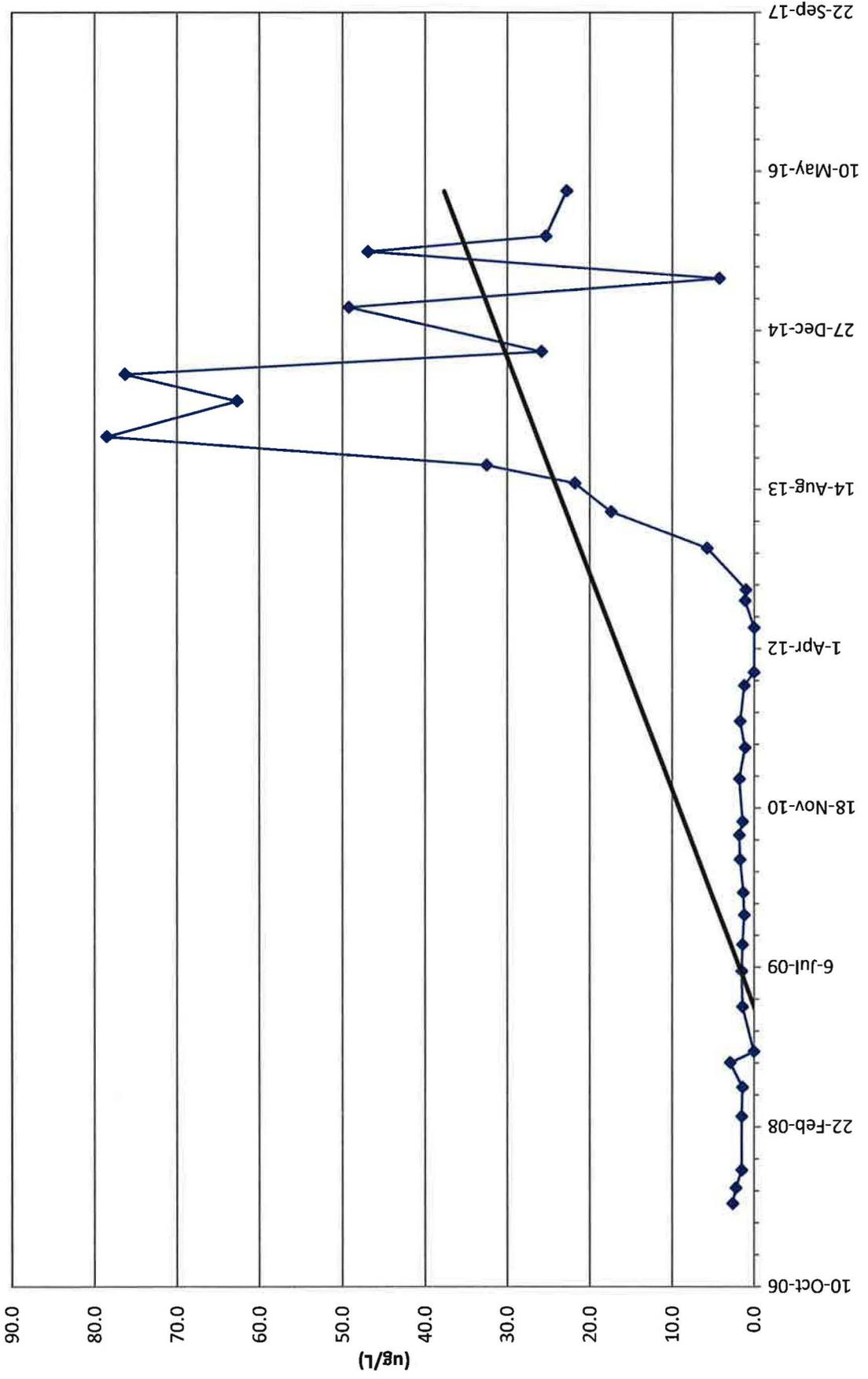
(ug/L)



TW4-23 Chloroform Values

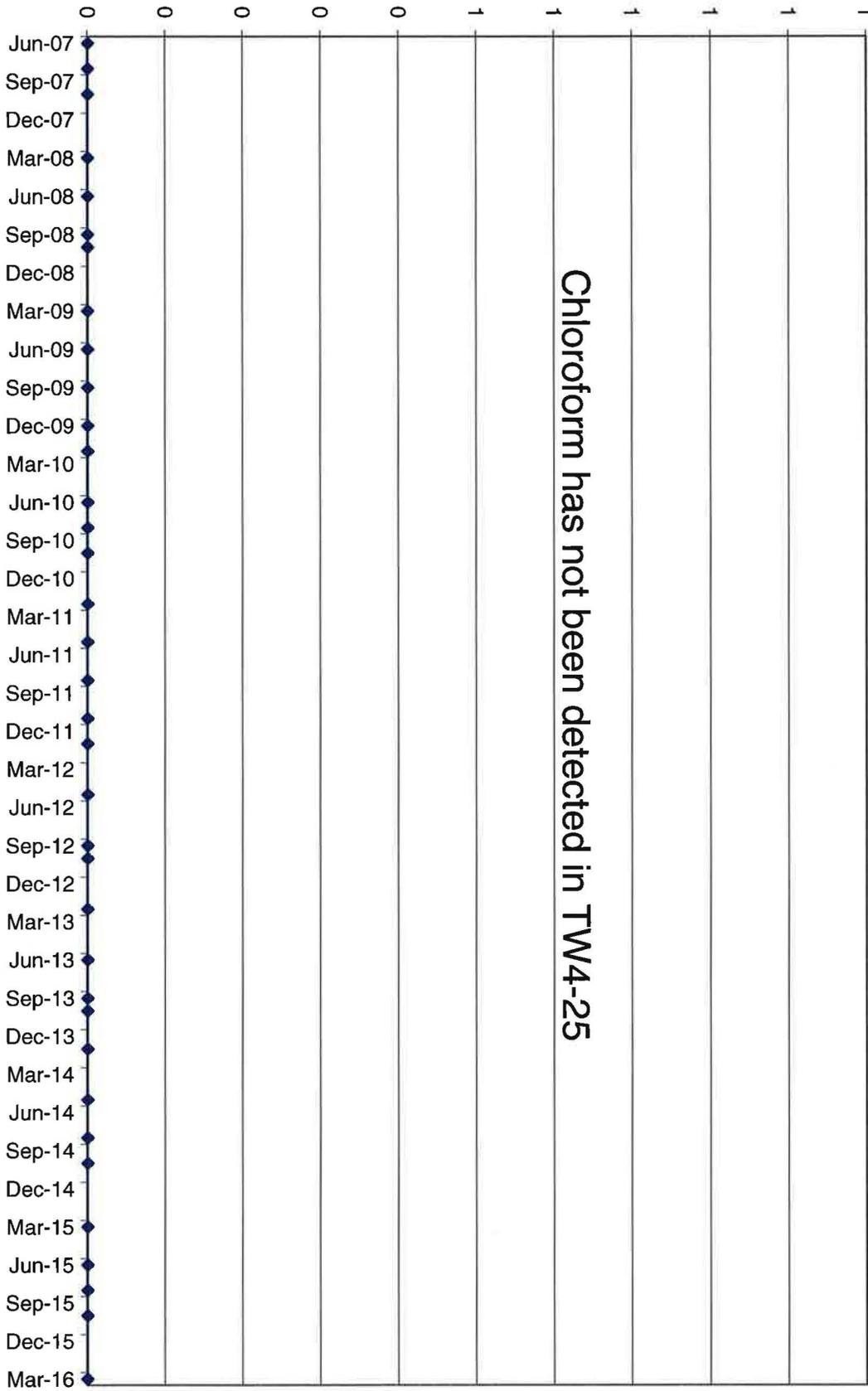
TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<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
19-Oct-15	25.3	ND	ND	ND	29.6	909
9-Mar-16	22.8	ND	ND	ND	29.1	989

# 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
21-Oct-15	ND	ND	ND	ND	1.78	93.7
9-Mar-16	ND	ND	ND	ND	0.837	62.7

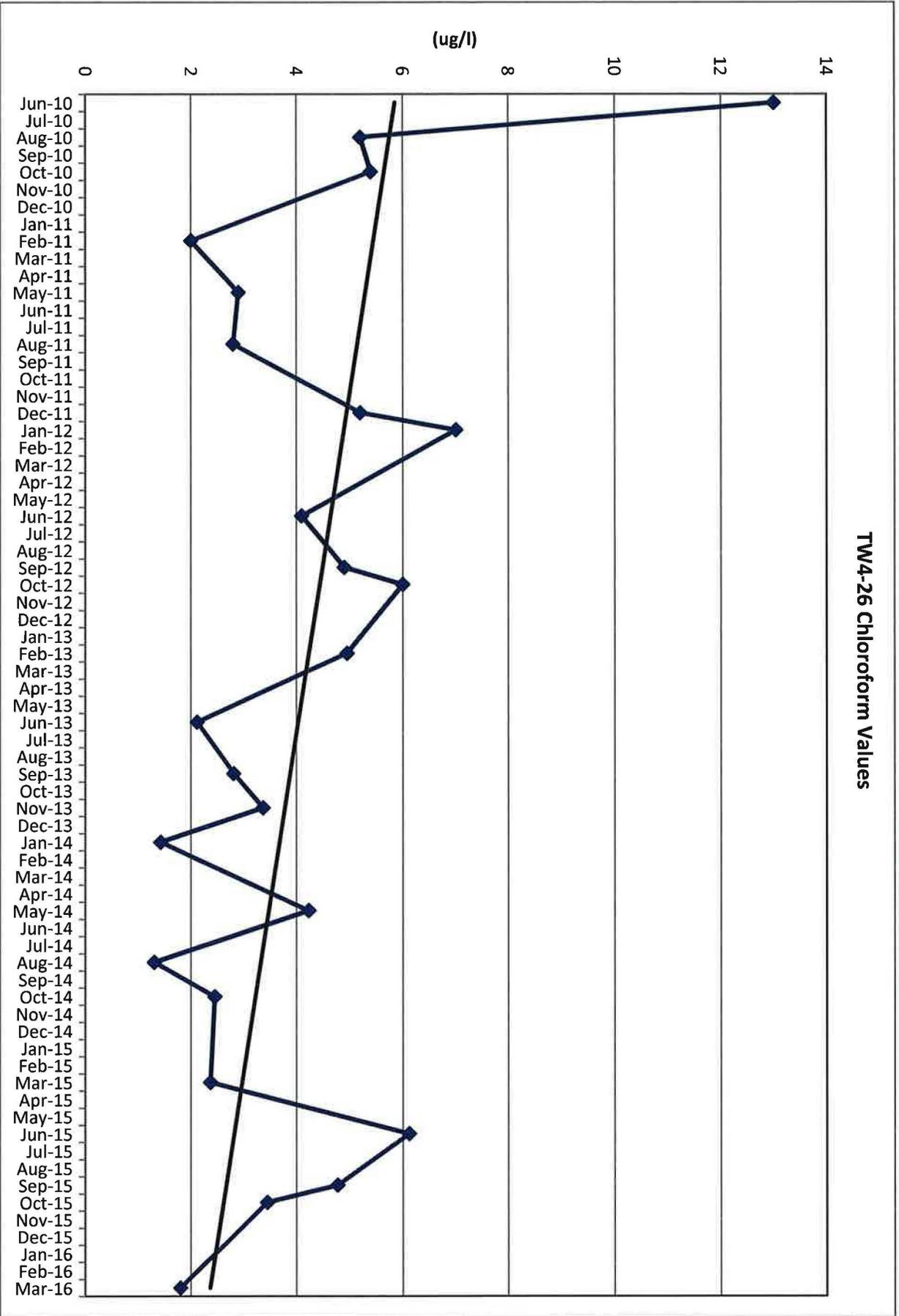
(ug/L)



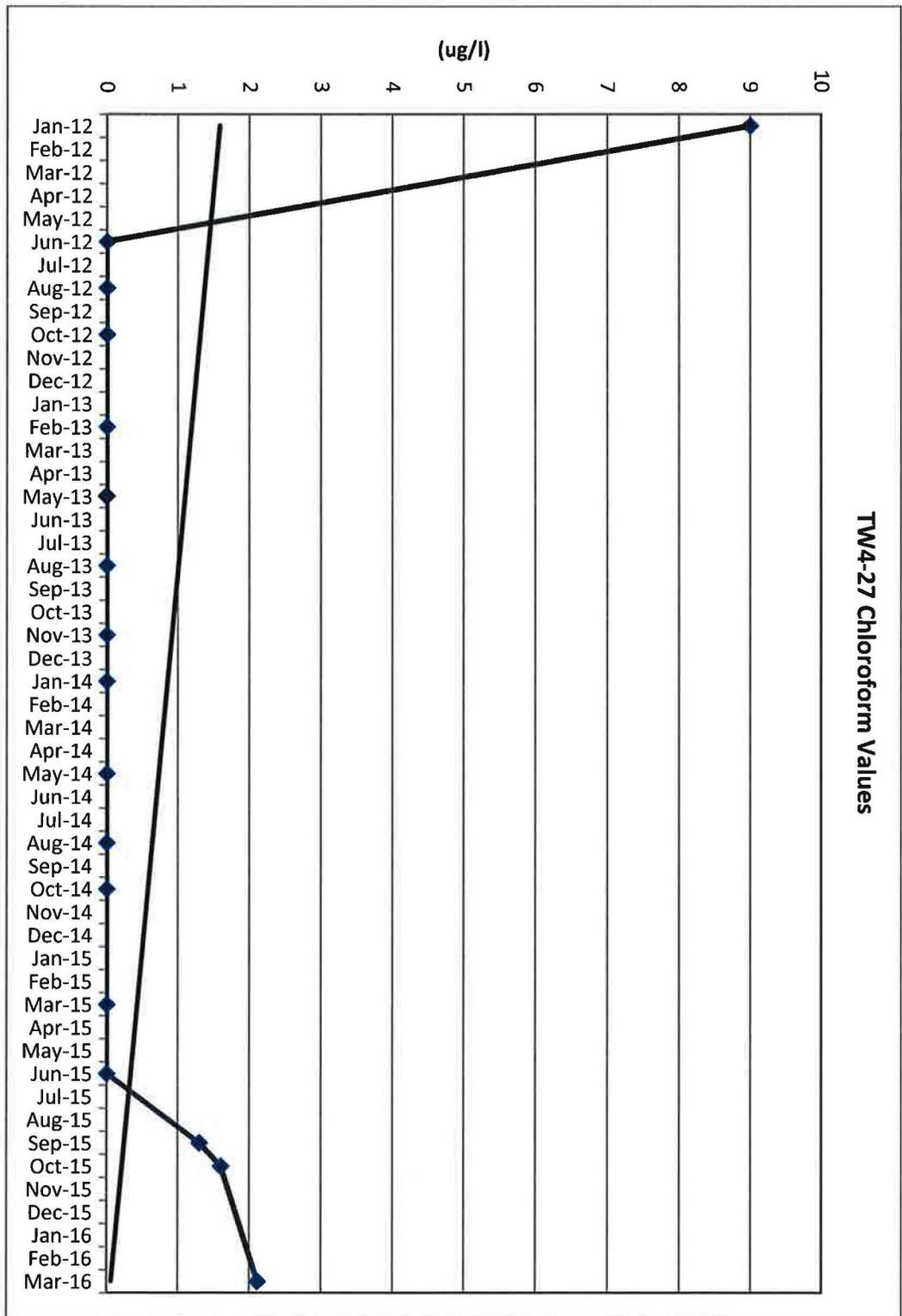
TW4-25 Chloroform Values

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
28-Oct-15	3.45	ND	ND	ND	13.9	13.3
16-Mar-16	1.80	ND	ND	ND	16.9	13.7

TW4-26 Chloroform Values

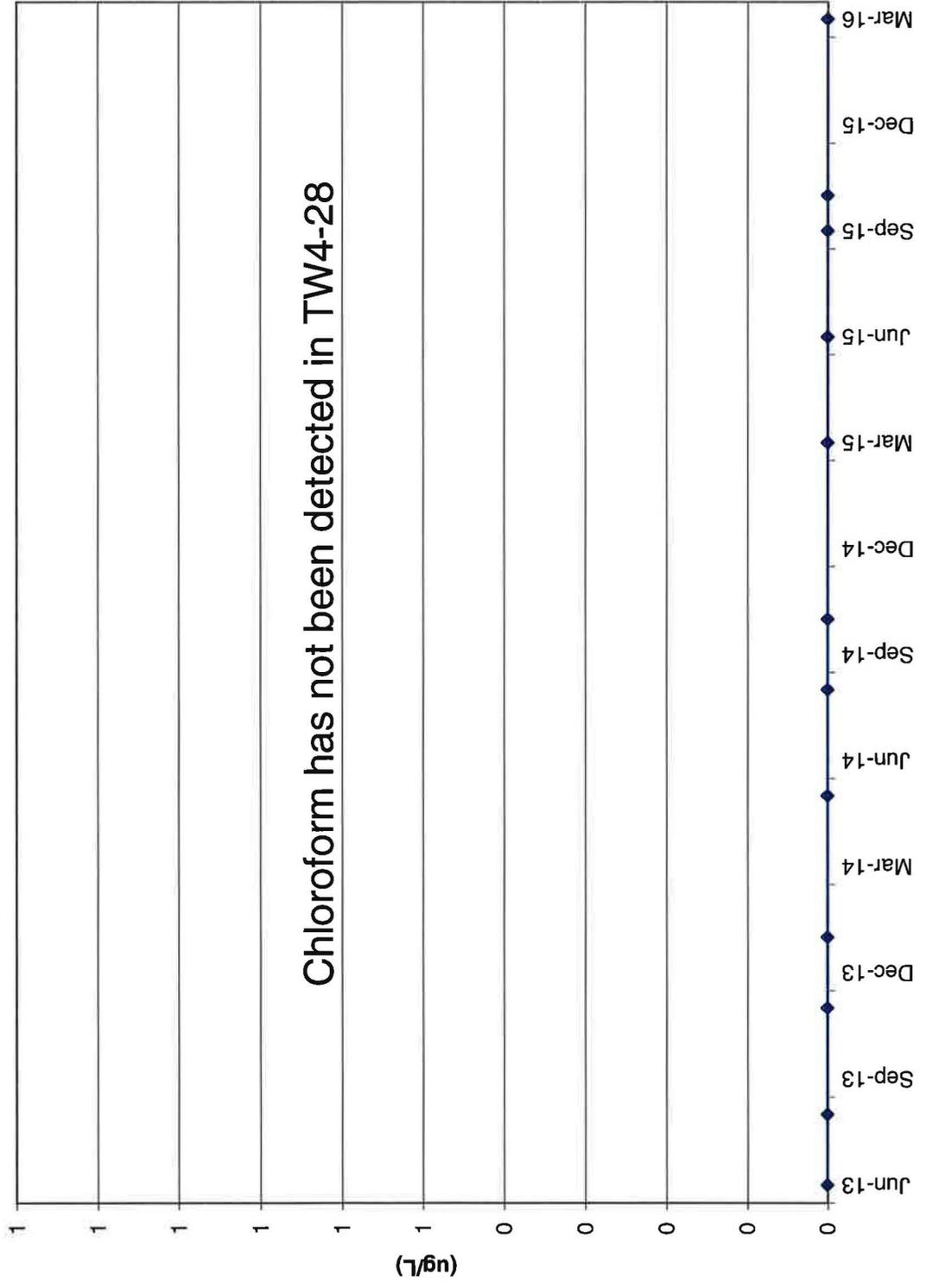


TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18
7-Feb-13	ND	ND	ND	ND	31.2	18.8
30-May-13	ND	ND	ND	ND	29.4	20.3
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
28-Oct-15	1.60	ND	ND	ND	23.5	26.2
16-Mar-16	2.11	ND	ND	ND	25.0	28.0



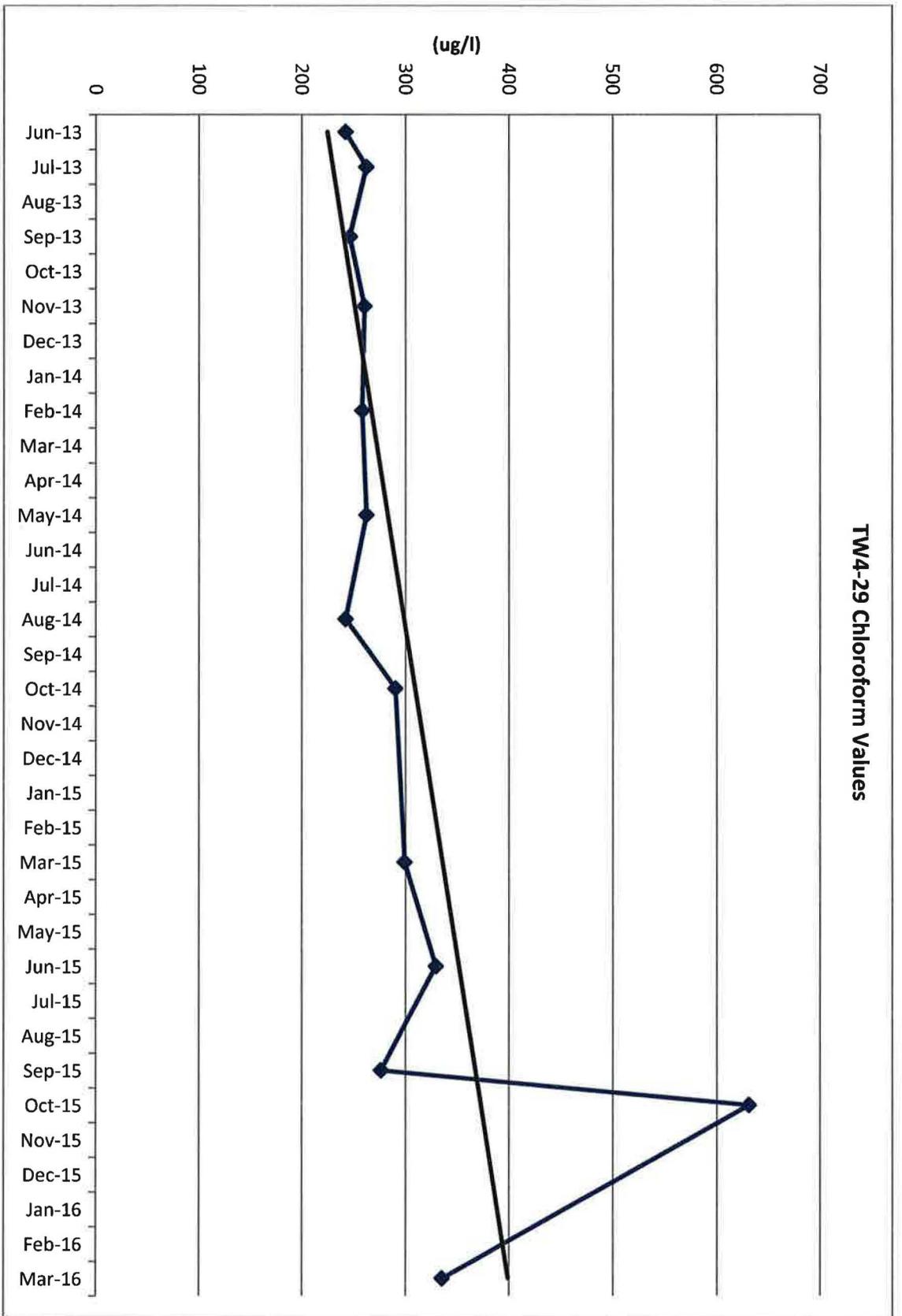
<b>TW4-28</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	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
21-Oct-15	ND	ND	ND	ND	18.7	52.7
15-Mar-16	ND	ND	ND	ND	34.0	61.6

TW4-28 Chloroform Values



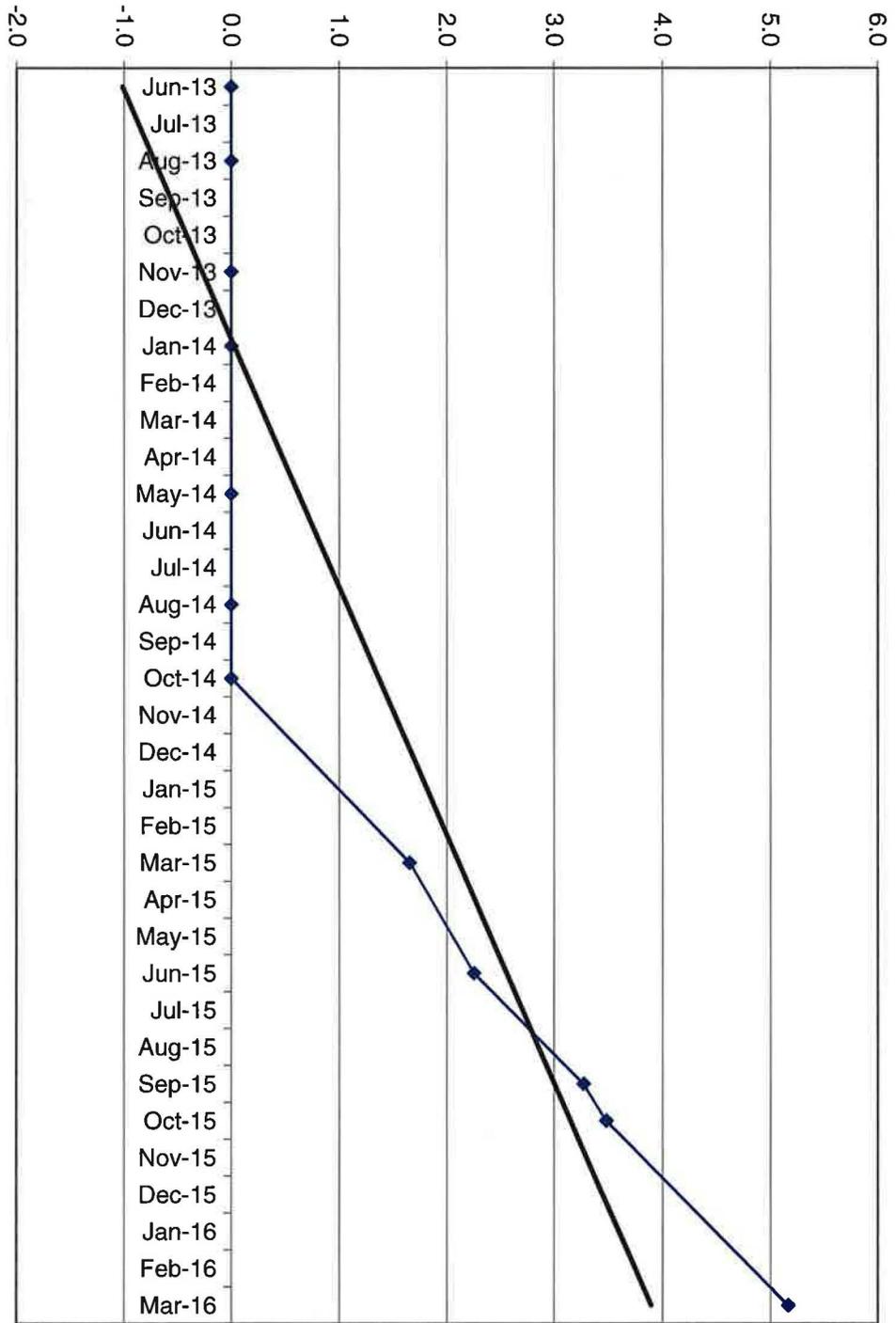
<b>TW4-29</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
19-Jun-13	242	ND	ND	ND	4.63	44.8
11-Jul-13	262	ND	ND	ND	3.52	37.7
26-Sep-13	246	ND	ND	ND	4.18	41.4
13-Nov-13	260	ND	ND	ND	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
29-Oct-15	631	ND	ND	ND	2.74	39.8
17-Mar-16	335	ND	ND	ND	2.92	40.3

TW4-29 Chloroform Values



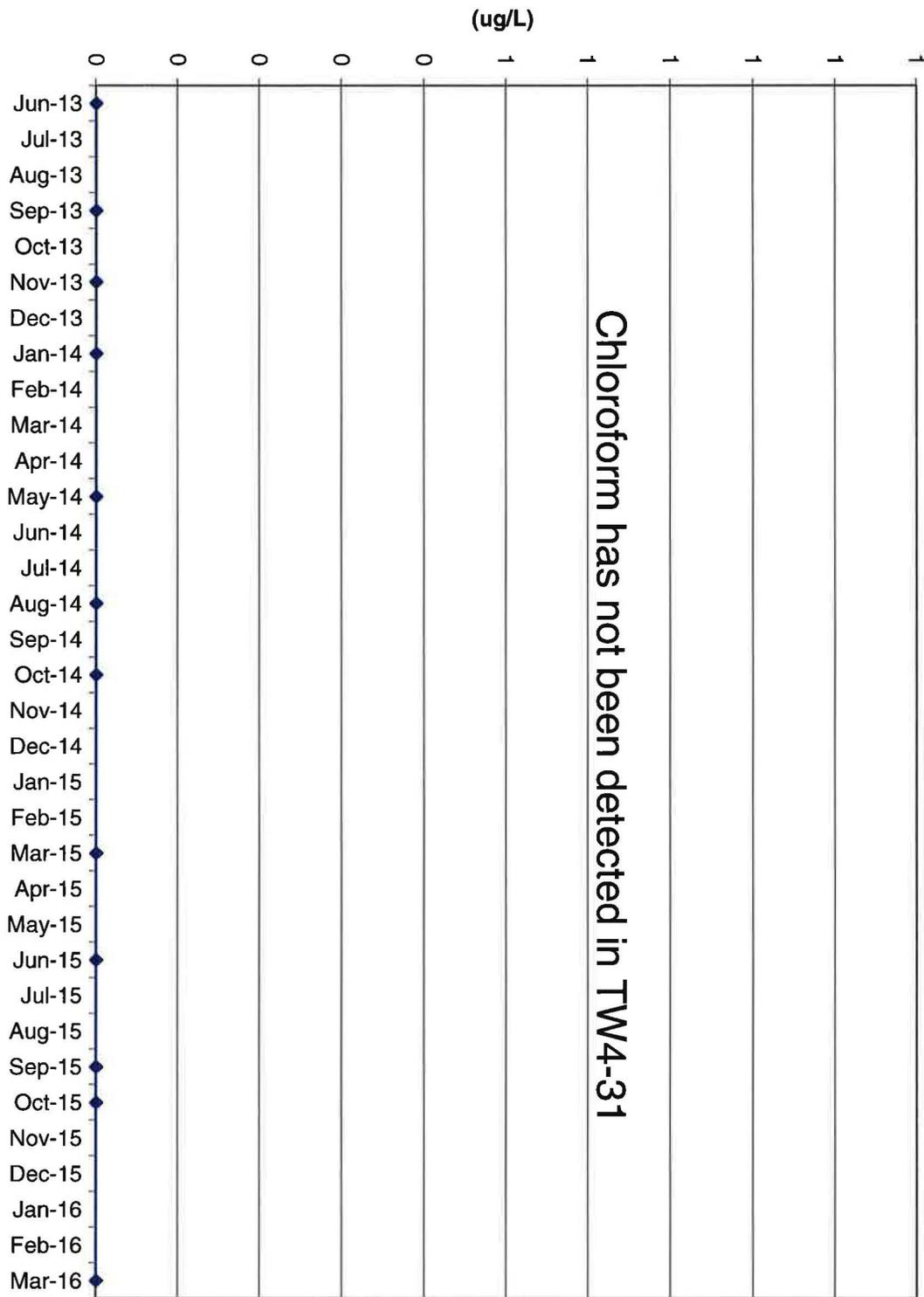
<b>TW4-30</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
19-Jun-13	ND	ND	ND	ND	0.948	36
29-Aug-13	ND	ND	ND	ND	0.952	36.3
7-Nov-13	ND	ND	ND	ND	1.24	35.9
23-Jan-14	ND	ND	ND	ND	1.36	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
28-Oct-15	3.48	ND	ND	ND	1.86	37.8
17-Mar-16	5.16	ND	ND	ND	2.74	39.6

(ug/L)



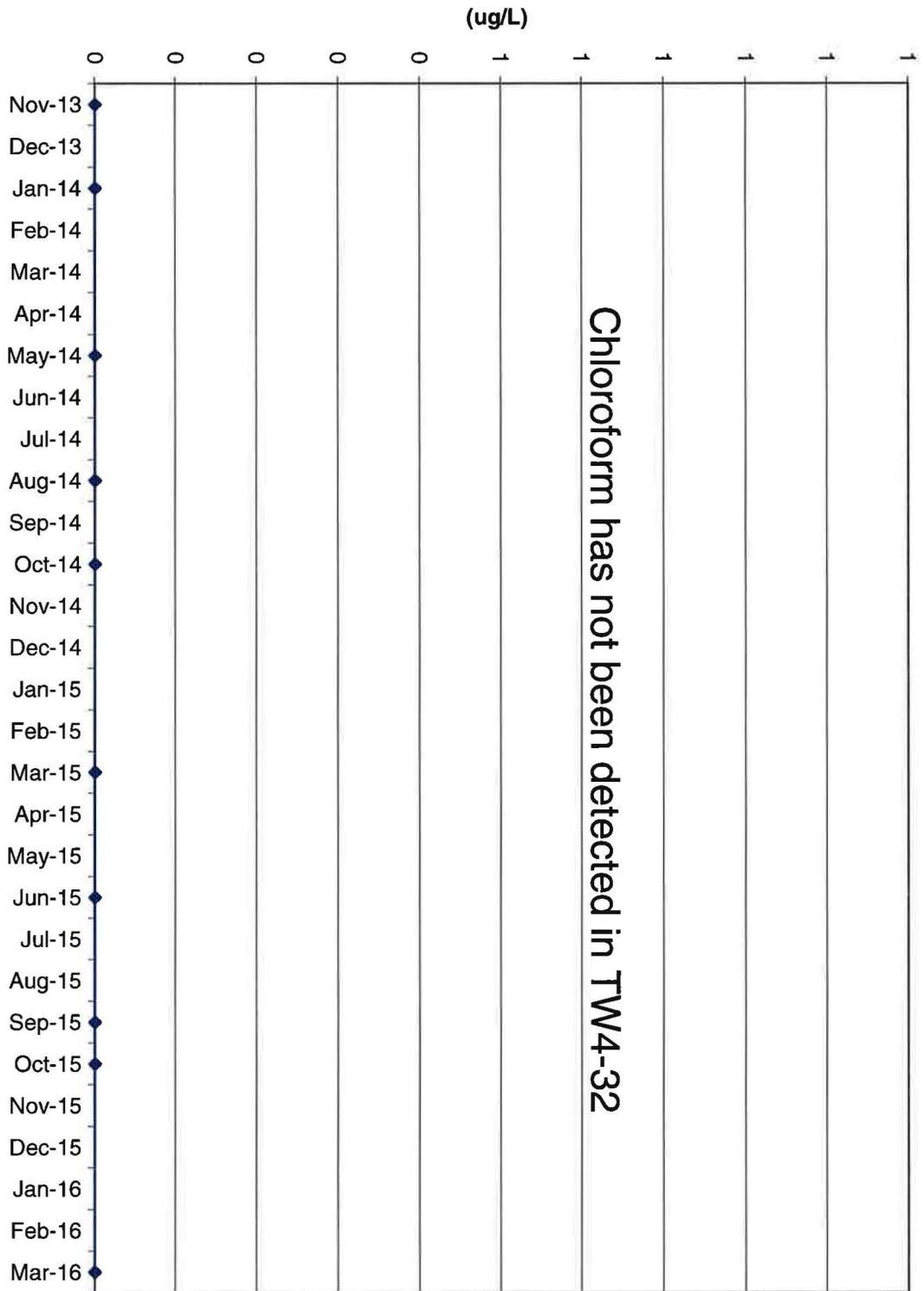
TW4-30 Chloroform Values

<b>TW4-31</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
21-Oct-15	ND	ND	ND	ND	0.953	29.1
16-Mar-16	ND	ND	ND	ND	1.84	31.5



TW4-31 Chloroform Values

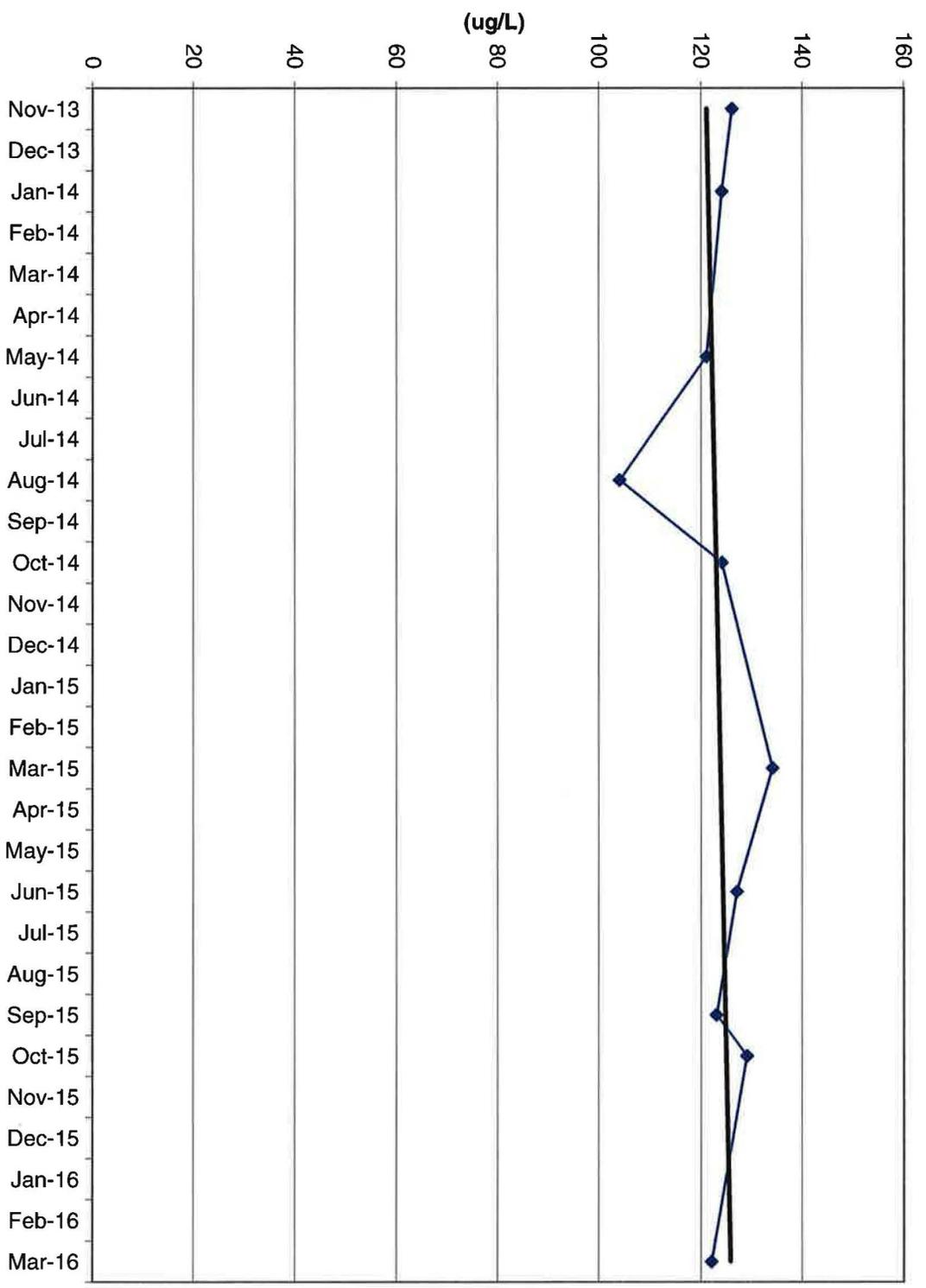
<b>TW4-32</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	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
21-Oct-15	ND	ND	ND	ND	1.19	55.1
15-Mar-16	ND	ND	ND	ND	4.48	64.2



TW4-32 Chloroform Values

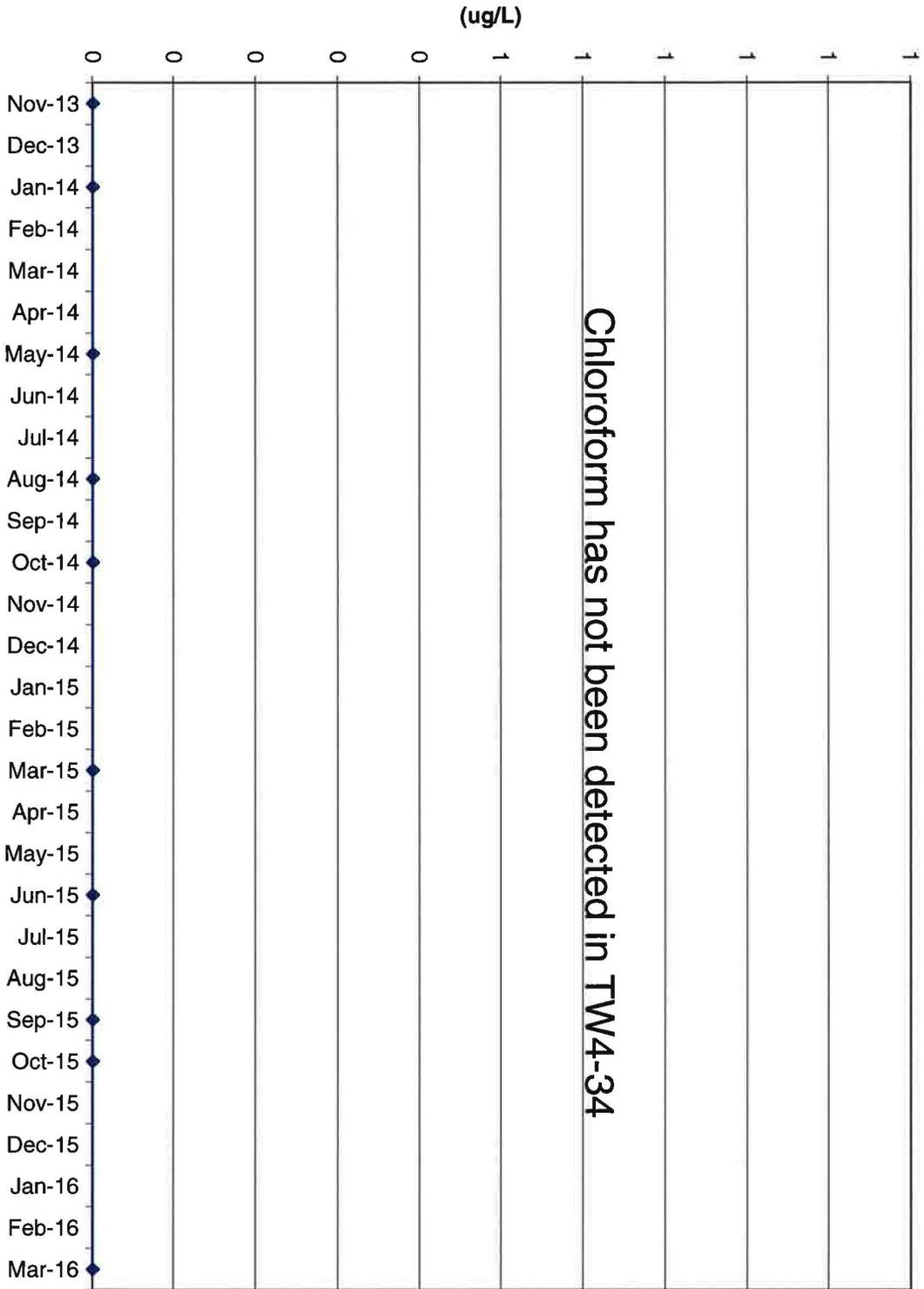
<b>TW4-33</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
14-Nov-13	126	ND	ND	ND	1.82	47.2
30-Jan-14	124	ND	ND	ND	2.56	43.5
22-May-14	121	ND	ND	ND	1.63	46.8
27-Aug-14	104	ND	ND	ND	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
29-Oct-15	129	ND	ND	ND	1.92	44.5
17-Mar-16	122	ND	ND	ND	2.13	46.2

TW4-33 Chloroform Values



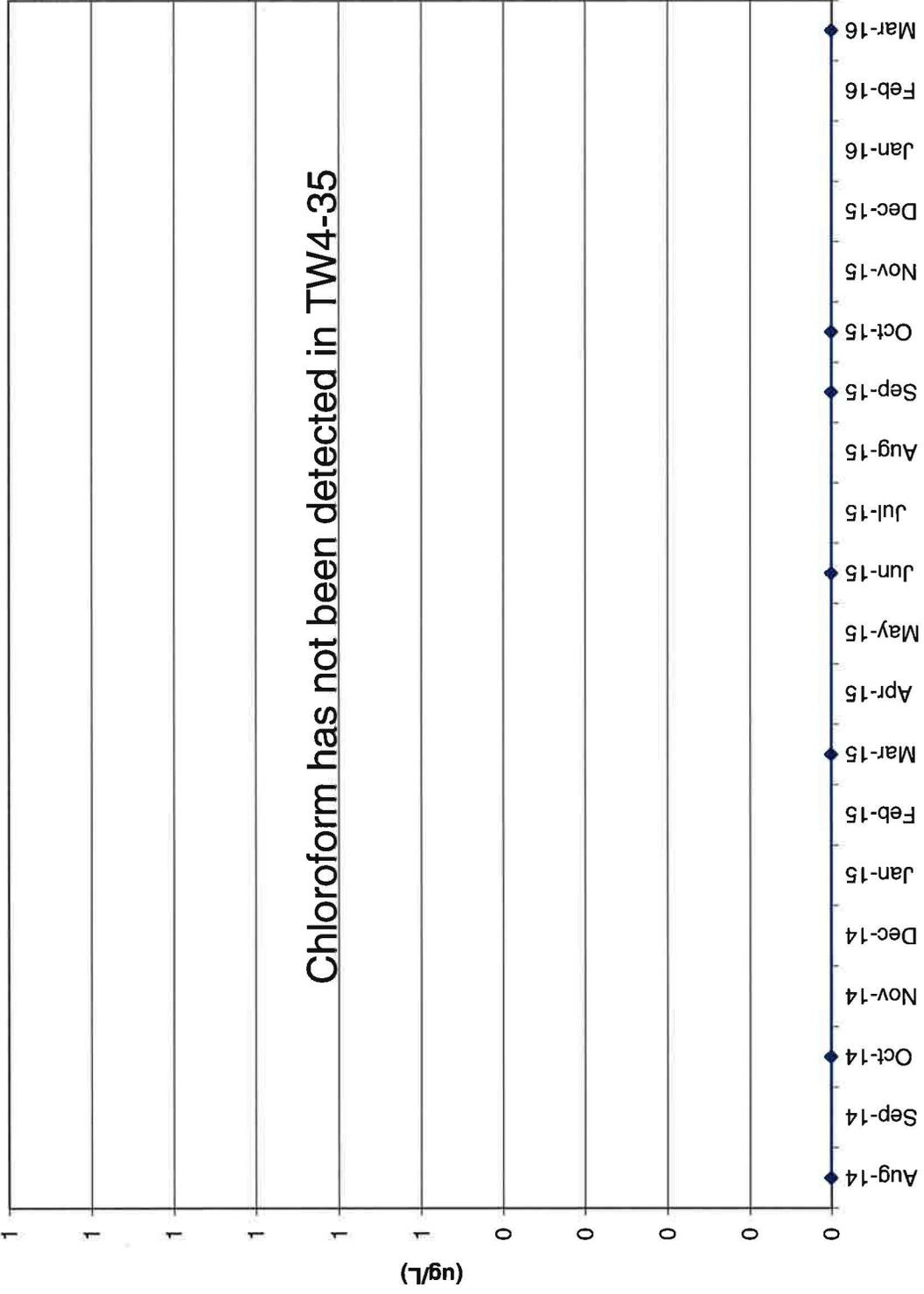
<b>TW4-34</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	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
21-Oct-15	ND	ND	ND	ND	0.368	15.8
16-Mar-16	ND	ND	ND	ND	0.925	17.3

**TW/4-34 Chloroform Values**



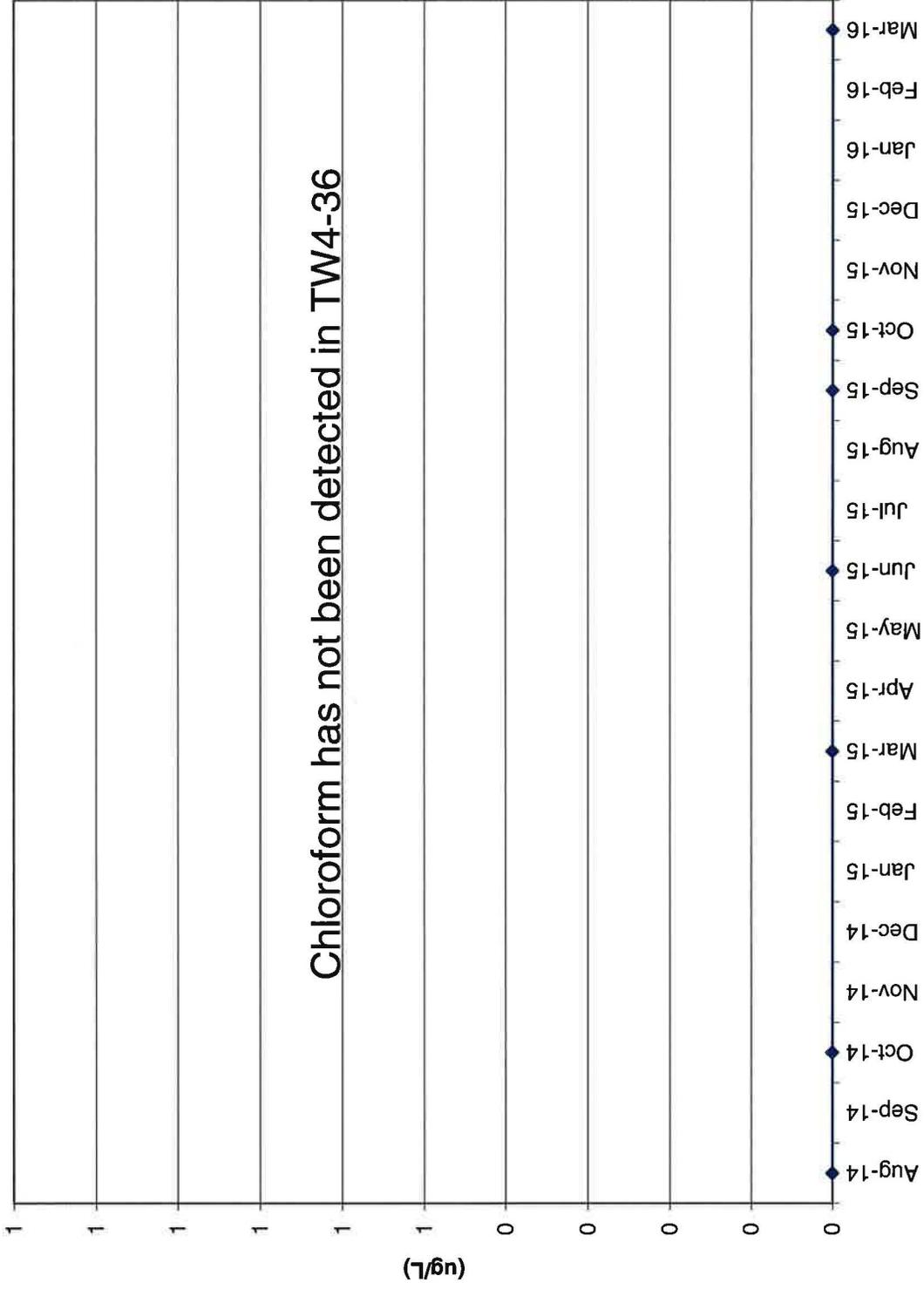
<b>TW4-35</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9
28-Oct-15	ND	ND	ND	ND	0.419	33.4
16-Mar-16	ND	ND	ND	ND	0.521	35.4

# TW4-35 Chloroform Values



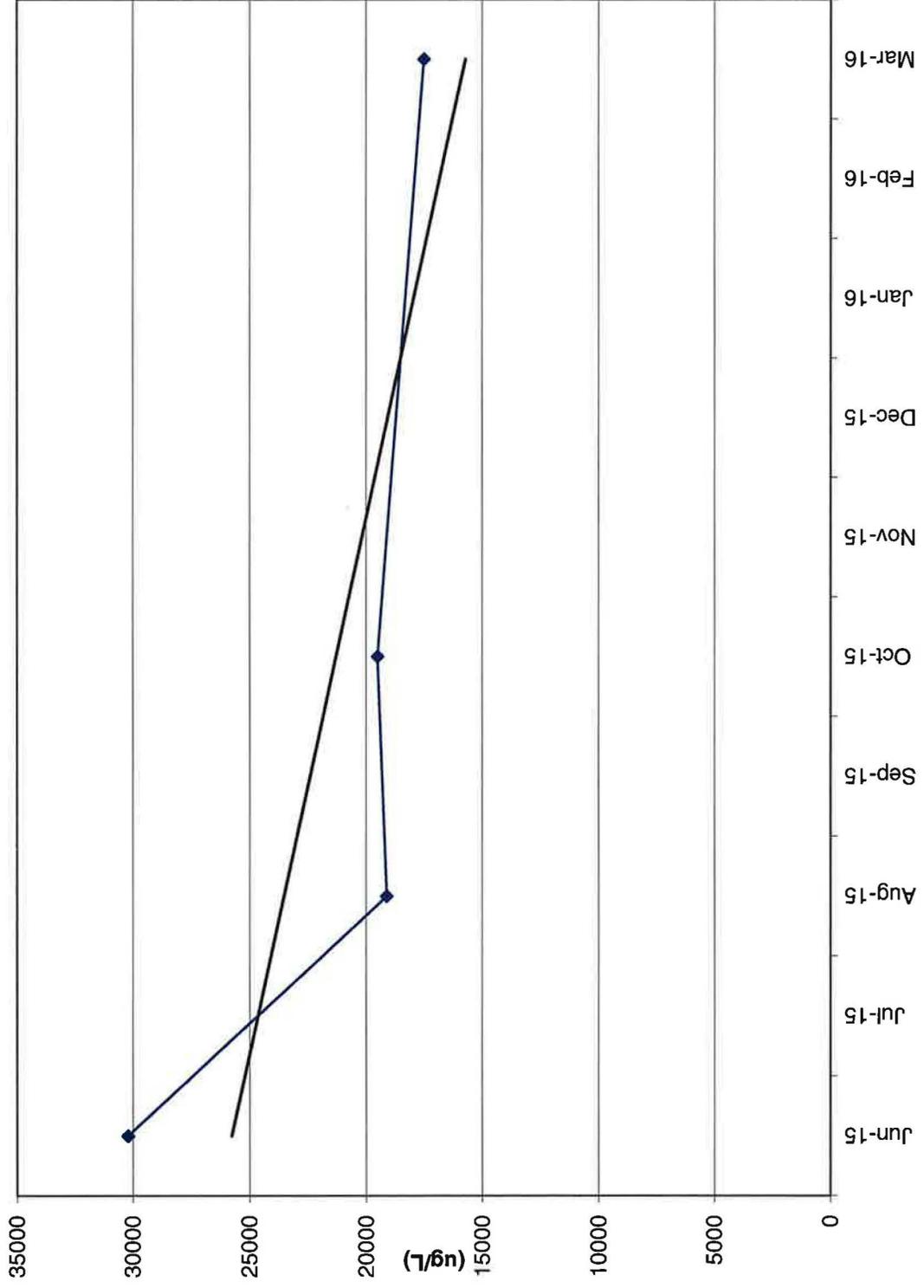
<b>TW4-36</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4
21-Oct-15	ND	ND	ND	ND	ND	64.5
16-Mar-16	ND	ND	ND	ND	ND	67.1

# TW4-36 Chloroform Values



<b>TW4-37</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
8-Jun-15	30200	18	16	2	35	345
31-Aug-15	19100	17	14	1.04	32	374
19-Oct-15	19500	13	9	1.17	35	399
9-Mar-16	17500	16	4	1.34	28.4	332

# TW4-37 Chloroform Values



**Tab L**

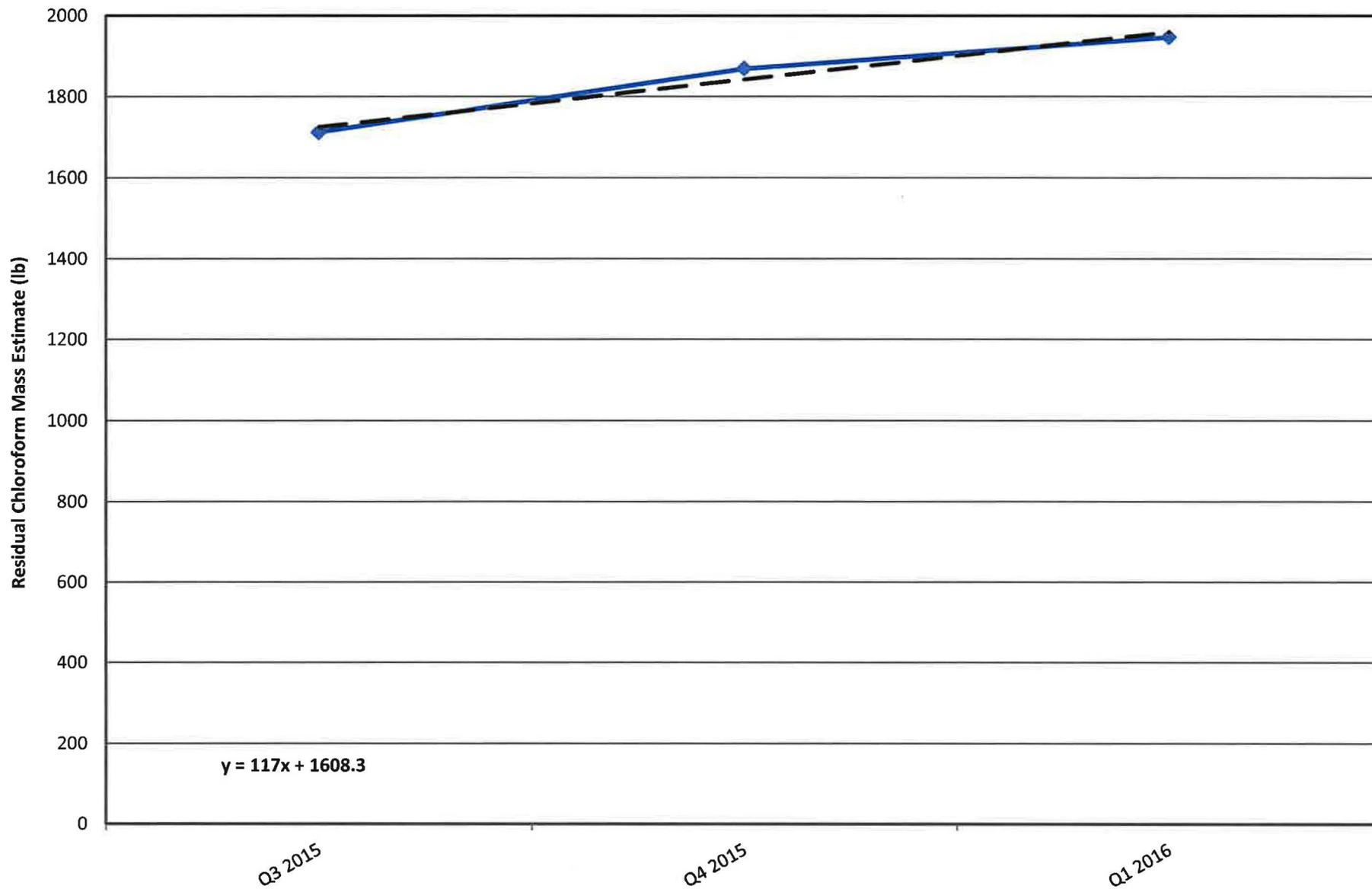
**Contour Map Based Chloroform Plume Mass Calculations and Data Over Time**

**TABLE L.1**  
**Chloroform Plume Residual Mass**  
**Since Third Quarter 2015**

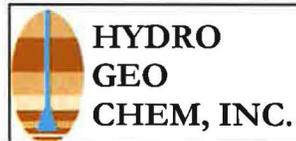
<b>Quarter</b>	<b>Residual Plume Mass (lbs)</b>
Q3 15	1712
Q4 15	1869
Q1 16	1946

*Notes:*

*lbs = pounds*



Series1 Linear (Series1)



**TIME SERIES OF RESIDUAL CHLOROFORM MASS ESTIMATES**

Approved	Date	Author	Date	File Name	Figure
SJS	4/21/16	GEM	4/21/16	MassEstTimeSeries.xls	L.1

## **CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:**

**Chloroform Data File:** CHL\_SurferInput\_Q1\_16.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) **Q4, 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 (all non-detect).

### **Chloroform residual mass estimate kriged grid files (ascii format):**

**Ucm1Q16wl.grd:** first quarter, 2016 Water Level Grid (ft amsl)

**Ucm1Q16bb.grd:** first quarter, 2016 Aquifer Base Grid (ft amsl)

**Ucm1Q16sat.grd:** first quarter, 2016 Saturated Thickness Grid (ft)

**Ucm1Q16logchl.grd:** first quarter, 2016 log of chloroform grid (log of ug/L)

**Ucm1Q16chl.grd:** first quarter, 2016 Chloroform Concentration Grid (ug/L)

**Ucm1Q16ge70.grd:** first quarter, 2016 Chloroform Concentration GE 70 Grid (ug/L)

**Ucm1Q16volm3.grd:** first quarter, 2016 Groundwater Volume Grid (m<sup>3</sup>)

**Ucm1Q16masslb.grd:** first quarter, 2016 Chloroform Plume Mass Grid (lb)

### **Chloroform residual mass estimate kriged grid XYZ files (ascii format):**

**Ucm1Q16wl.dat:** first quarter, 2016 Water Level Grid XYZ file (ft amsl)

**Ucm1Q16bb.dat:** first quarter, 2016 top of Aquifer Base Grid XYZ file (ft amsl)

**Ucm1Q16sat.dat:** first quarter, 2016 Saturated Thickness Grid XYZ file (ft)

**Ucm1Q16logchl.dat:** first quarter, 2016 log of chloroform grid XYZ file (log of ug/L)

**Ucm1Q16chl.dat:** first quarter, 2016 Chloroform Concentration Grid XYZ file (ug/L)

**Ucm1Q16ge70.dat:** first quarter, 2016 Chloroform Concentration GE 70 Grid (ug/L) XYZ file

**Ucm1Q16volm3.dat:** first quarter, 2016 Groundwater Volume Grid XYZ file (m<sup>3</sup>)

**Ucm1Q16masslb.dat:** first quarter, 2016 Chloroform Plume Mass Grid XYZ file (lb)

**Chloroform plume mass estimate file:** Ucm1Q16result.xls

Tab M

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Thursday, May 19, 2016 7:52 AM  
**To:** Goble, Phillip  
**Cc:** 'Dean Henderson'; Harold Roberts; Danny Flannery; David Turk; Scott Bakken; Logan Shumway  
**Subject:** Transmittal of CSV Files White Mesa Mill 2016 Q1 Chloroform Monitoring  
**Attachments:** 1603259-EDD.csv; 1603400-EDD.csv; 1603479-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 first quarter of 2016, 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



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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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