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

Div of Waste Management
and Radiation Control

AUG 21 2019

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August 15, 2019

Sent VIA OVERNIGHT DELIVERY

Mr. Ty L. Howard
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 2nd Quarter 2019 Routine Chloroform Monitoring Report
UDEQ Docket No. UGW-20-01 White Mesa Uranium Mill

Dear Mr. Howard:

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 2nd Quarter of 2019 as required by the Stipulation and Consent Order, UDEQ Docket No. UGW-20-01 as well as two CDs, that each contains a word searchable electronic copy of the report.

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

Yours very truly,

Kathy Weinel

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

CC: David C. Frydenlund
Paul Goranson
Logan Shumway
Scott Bakken
Terry Slade

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White Mesa Uranium Mill

Chloroform Monitoring Report

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

2nd Quarter
(April through June)
2019

Prepared by:

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

August 15, 2019

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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 second quarter of 2019 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, TW4-37, TW4-39, TW4-40, and TW4-41 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	TW4-38
TW4-3	TW4-12	TW4-21	TW4-30	TW4-39
TW4-4	TW4-13	TW4-22	TW4-31	TW4-40
TW4-5	TW4-14	TW4-23	TW4-32	TW4-41
TW4-6	MW-26 (formerly TW4-15)	TW4-24	TW4-33	TW4-42
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 7.5, dated May 14, 2019.

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, TW4-39, TW4-40, and TW4-41 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, August 15, 2017, July 23, 2018, and May 14, 2019. The revised Groundwater QAP and Chloroform QAP, Revision 7.5 were approved by DWMRC on June 5, 2019.

The sampling methodology, equipment and decontamination procedures used in the chloroform contaminant investigation, as summarized below, are consistent with the approved QAP 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 wells 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 staring 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, 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 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_2SO_4;

- 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, TW4-39, TW4-40, TW4-41 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 fifteen 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, three 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.

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

Two rinsate blank samples were collected as indicated on Table 1. Rinsate samples were labeled with the name of the subsequently purged well with a terminal letter "R" added (e.g. TW4-7R). The results of these analyses are included with the routine analyses under Tab H.

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

3.2 Adherence to Mill Sampling SOPs

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

3.3 Analyte Completeness Review

All analyses required by the GCAP for chloroform monitoring for the period were performed.

3.4 Data Validation

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

3.4.1 Field Data QA/QC Evaluation

The QA Manager performs a review of the field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and measurement of field parameters based on the requirements discussed in section 2.2.1 above. The purging technique employed determines the requirements for field parameter measurement and whether stability criteria are applied. Review of the Depth to Water data confirms that all depth measurements used for development of the groundwater contour maps were conducted within a five-day period as indicated by the measurement dates in the summary sheet under Tab D. The results of this quarter's review of field data are provided under Tab I.

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

Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)
Wells TW4-5, TW4-8, TW4-9, TW4-16, MW-32, TW4-18, TW4-23, TW4-32, and TW4-38 were sampled after two casing volumes were removed. Field parameters (pH, specific conductivity, turbidity, water temperature, and redox potential) were measured during purging. All field parameters for this requirement were stable within 10% RPD.

Purging a Well to Dryness and Stability of a Limited List of Field Parameters
Wells TW4-3, TW4-6, TW4-7, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, TW4-36, and TW4-42 were pumped to dryness before two casing volumes were evacuated. After well recovery, one set of measurements of pH, conductivity and temperature were taken. The samples were then collected, and another set of measurements of pH, conductivity and temperature were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP, Revision 7.4. 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, TW4-37, TW4-39, TW4-40, and TW4-41 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 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 TW4-9, TW4-16, MW-32, TW4-18, TW4-23, TW4-32, TW4-37, and TW4-38 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. All of the trip blank samples were nondetect.

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 included in 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. Rinsate blank sample TW4-03R had a reported chloroform detection of 16.5 ug/L. TW4-03 was nondetect for chloroform. TW4-03R results were outside of acceptance limits for the rinsate blank results.

TW4-03R was collected after decontamination and prior to the pump being used to collect any Q2 2019 chloroform samples. Because the pump was not used prior to the rinsate sample collection, the detection is not the result of cross contamination.

EFRI changed out the vessels used for the decontamination of the pump to assure that that is not where the contamination is originating. This change occurred before any decontamination was done in Q2 2019. In addition prior to the Q2 2019 sampling event EFRI had the DI water system serviced and all filters and media were changed. The DI blank from the on-site DI system which generates the water for rinsate blank samples had a reported chloroform detection of 2.44 ug/L. EFRI is continuing the investigation of the chloroform in the DI samples. The results of this investigation will be provided in future reports.

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. 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 QAP, Section 8.1.2 requires that each analytical batch shall be accompanied by a method blank. The analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank was prepared for the analytical methods. Per the approved QAP, contamination detected in analysis of method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP states that non-conformance conditions will exist when contaminant levels in the

samples(s) are not an order of magnitude greater than the blank result. There were no detections in the method blanks in this quarter. Method blank results are included in Tab H.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for the samples were within acceptable laboratory limits for the regulated compounds as indicated in Tab I.

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 formerly used wildlife ponds is still evident and disrupts the generally southwesterly flow pattern, to the extent that locally northerly flow occurs near MW-19 and 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 associated mound decays due to reduced recharge. The perched groundwater mound associated with the southern wildlife pond is also diminishing due to reduced recharge at that location.

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, resulted in changing conditions that were expected to impact constituent concentrations and migration rates within the plumes. Specifically, past recharge from the northern ponds helped limit many constituent concentrations within the plumes by dilution while the associated groundwater mounding increased hydraulic gradients and contributed to plume migration. Since use of the northern ponds was discontinued in March 2012, increases in constituent concentrations in many wells, and decreases in hydraulic gradients within the plumes, are attributable to reduced recharge and the decay of the associated groundwater mound. EFRI and its consultants anticipated these changes and discussed these and other potential effects with DWMRC in March 2012 and May 2013.

The impacts associated with cessation of water delivery to the northern ponds were expected to propagate downgradient (south and southwest) over time. Wells close to the ponds were generally expected to be impacted sooner than wells farther downgradient of the ponds. Therefore, constituent concentrations were generally expected to increase in downgradient wells close to the ponds before increases were detected in wells farther downgradient of the ponds. Although such increases were anticipated to result from reduced dilution, the magnitude and timing of the increases were anticipated to be and have been 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. Because of these complicating factors, some wells completed in higher permeability materials were expected to be impacted sooner than other wells completed in lower permeability materials even though the wells completed in lower permeability materials were closer to the ponds.

In general, chloroform and nitrate concentrations within and in the vicinity of the chloroform plume appear to have been impacted to a greater extent than nitrate concentrations within and adjacent to the nitrate plume. This behavior is reasonable considering that the chloroform plume is generally more directly downgradient of and more hydraulically connected (via higher permeability materials) to the northern wildlife ponds.

In addition, the southern wildlife pond is in relatively close proximity to the downgradient (southern) extremity of the chloroform plume. Reduced recharge at the southern pond, and decay of the associated groundwater mound, can be expected to impact water level behavior and chloroform and nitrate concentrations in wells within this portion of the chloroform plume.

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 was anticipated to be more 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 were also expected to occur over time at wells subsequently added to the chloroform pumping network: TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 (added during 2015); TW4-39 (added during the fourth quarter of 2016); TW4-41 (added during the second quarter of 2018); and TW4-40 (added during the second quarter of 2018 [current quarter]). The overall impact was 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 were typically evident in the vicinity of all chloroform pumping wells except TW4-4 and TW4-37, which began pumping in the first quarter of 2010 and the second quarter of 2015, respectively. The third quarter of 2018 was the first quarter that a well-

defined cone of depression was associated with TW4-4, primarily the result of pumping at adjacent well TW4-41.

The lack of well-defined capture associated with chloroform pumping well TW4-4 was consistent prior to the third quarter of 2018, even though pumping since the first quarter of 2010 has depressed the water table in the vicinity of this well. The lack of a well-defined cone of depression near TW4-4 likely resulted from 1) variable permeability conditions in the vicinity of TW4-4, and 2) historical relatively low water levels at adjacent well TW4-14.

Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 started pumping during the first quarter of 2013. By the fourth quarter of 2013, operation of the nitrate pumping system had produced well-defined impacts on water levels. Water level impacts of the nitrate and chloroform pumping systems overlap; however the long-term interaction between the nitrate and chloroform pumping systems is evolving, and changes will be reflected in data collected during routine monitoring.

Water level patterns near nitrate pumping 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 historically relatively low water level at TWN-7. Since 2012, water levels in TWN-7 have risen while water levels in nearby wells have generally dropped due to pumping and the decay of the northern groundwater mound. These factors have reduced water level differences between TWN-7 and nearby wells.

As discussed above, variable permeability conditions likely contributed 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 were 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, TW4-26, 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 complicated by a general, long-term increase in water levels in this area that has been 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, between the start of pumping at TW4-4 (first quarter of 2010) and the fourth quarter of 2013, the rate of increase in water levels at TW4-6 was reduced to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4.

Water levels in all wells currently within the chloroform plume south of TW4-4 (TW4-26, TW4-29, TW4-33 and TW4-40) are trending generally downward. The downward trend is evident at TW4-26, TW4-29 and TW4-33 since the fourth quarter of 2013, and at TW4-40 since installation in the first quarter of 2018. The water level in TW4-6 (remaining just outside the plume this quarter) has also trended downward since the fourth quarter of 2013. Downward

trends are attributable to both the cessation of water delivery to the wildlife ponds and pumping. Although water levels at some of the wells marginal to the chloroform plume such as TW4-14, TW4-27, TW4-30 and TW4-31 were generally increasing until about the first quarter of 2018, these water levels now appear to have stabilized.

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 wildlife 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 wildlife ponds. Wells that are more hydraulically isolated will also respond more slowly to changes in pumping.

The previous lack of a well-defined cone of depression associated with TW4-4 was also influenced by the historically relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. Prior to 2018, although water level differences among these three wells had diminished, and TW4-4 has been pumping since 2010, the water level at TW4-14 was typically lower than the water level at TW4-6 and lower to an even greater extent than the water level at TW4-4. For the current quarter, as during the previous quarter, the water level at TW4-14 is higher than water levels at both TW4-4 and TW4-6: the water level at TW4-14 (approximately 5535.1 feet above mean sea level ["ft amsl"]) is more than 2 feet higher than the water level at TW4-6 (approximately 5532.6 ft amsl), and approximately 6 feet higher than the water level at TW4-4 (approximately 5529.1 ft amsl). This pattern is attributable to the cone of depression induced by pumping TW4-4 and TW4-41.

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. 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 µg/L has been detected at more 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 relatively low water level at TW4-14. The water level at TW4-26 (5531.2 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5532.6 feet amsl) and TW4-23 (5534.2 feet amsl), as shown in the detail water level map under Tab C.

Hydraulic tests indicate that the permeability at TW4-27 is an order of magnitude lower than at TW4-6 and three orders of magnitude lower than at TW4-4 (see Hydro Geo Chem, Inc. [HGC], September 20, 2010: Hydraulic Testing of TW4-4, TW4-6, and TW4-26, White Mesa Uranium

Mill, July 2010; and HGC, November 28, 2011: Installation, Hydraulic Testing, and Perched Zone Hydrogeology of Perched Monitoring Well TW4-27, White Mesa Uranium Mill Near Blanding, Utah). 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 more 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 current quarterly water level at TW4-27 (approximately 5529.2 ft. amsl) is nearly 6 feet lower than the water level at TW4-14 (5535.1 ft. amsl). Increases in water level differences between TW4-14 and TW4-27 since 2013 are attributable to more rapid increases in water levels at TW4-14 compared to TW4-27. This behavior likely results primarily from: the relative positions of the wells; past water delivery to the northern wildlife ponds; and the permeability distribution. Past seepage from the ponds caused propagation of water level increases in all directions including downgradient to the south. The relative hydraulic isolation of TW4-14 and TW4-27 delayed responses at these locations. Until pumping started at TW4-41, water levels at both these wells were consistently lower than in surrounding higher permeability materials even though water levels in surrounding materials were generally decreasing due to reduced pond seepage and pumping. Although water levels at TW4-14 and TW4-27 appear to have stabilized, the previous rate of increase was higher at TW4-14 due to factors that include: closer proximity to the northern pond seepage source; and a smaller thickness of low permeability materials separating TW4-14 from surrounding higher permeability materials. In addition, hydraulic gradients between TW4-14 and surrounding higher permeability materials were relatively large and were directed toward TW4-14 prior to TW4-41 pumping. Slowing of the rates of water level increase at TW4-14 (since 2015) and TW4-27 (since early 2014), and stabilization since about the first quarter of 2018, are attributable to changes in hydraulic gradients between these wells and surrounding higher permeability materials.

In addition, water levels in this area are affected by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound. The decay of the mound is expected to contribute to changes in hydraulic gradients between the low permeability materials penetrated by TW4-14 and TW4-27 and the surrounding higher permeability materials. Because TW4-27 is closer to the southern wildlife pond than TW4-14, changes in hydraulic gradients attributable to decay of the southern groundwater mound are expected to impact TW4-27 sooner and to a greater extent than TW4-14, consistent with the lower rate of increase in water levels at TW4-27, and the earlier reduction in the rate of increase (since early 2014) as discussed above).

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 current quarter chloroform concentrations of approximately 4.2 µg/L and 8.2 µg/L, respectively.

Chloroform exceeding 70 µg/L detected at TW4-29 and TW4-33 since their installation in 2013 indicates that, in addition to migrating south from TW4-4 to TW4-6 and TW4-26, chloroform also migrated along a relatively 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 about 2014, placed TW4-14 almost directly downgradient of TW4-4. Such migration was historically possible because the water levels at TW4-29 were 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 approximately 31.5 µg/L at TW4-30 (located east and cross- to downgradient of TW4-29), and was not detected at wells TW4-31 (located east of TW4-27), TW4-34 (located south and cross-gradient of TW4-29), nor TW4-35 (located southeast and generally downgradient of TW4-29).

Data from wells within and adjacent to the southern portion of the chloroform plume indicate that:

1. Chloroform exceeding 70 µg/L at TW4-29 is bounded by concentrations below 70 µg/L at wells TW4-6, TW4-23, TW4-27, TW4-30, TW4-34, TW4-35 and TW4-42. TW4-30 is cross- to downgradient of TW4-29; TW4-6 and TW4-23 are generally cross- to upgradient of TW4-29; TW4-27, TW4-34 and TW4-42 are generally cross-gradient of TW4-29; and TW4-35 is generally 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.
3. Chloroform concentrations at TW4-26 exceeded 70 µg/L for the first time during the second quarter of 2017. Chloroform at TW4-26 is bounded by concentrations below 70 µg/L at TW4-6 and TW4-23 (located up- to cross-gradient of TW4-26); and at TW4-34 (located cross- to downgradient of TW4-26). Chloroform has not been detected at either TW4-23 or TW4-34. Although chloroform exceeding 70 µg/L was detected at well TW4-40, installed approximately 200 feet south of TW4-26 in February, 2018, chloroform was not detected at TW4-42, installed approximately 200 feet south of TW4-40 in April, 2019 (this quarter). TW4-42 is generally downgradient of both TW4-26 and TW4-40 and bounds the chloroform plume to the south.

Eventually, TW4-4 pumping, enhanced by operation of adjacent new pumping well TW4-41, is likely to reduce chloroform at both TW4-33 and TW4-29 by cutting off the source. The decrease

at TW4-33 is expected to be faster than at TW4-29 because TW4-33 is in closer proximity to TW4-4 pumping. Such behavior is expected by analogy with the temporary decreases in chloroform concentrations that occurred at TW4-6 and TW4-26 once TW4-4 pumping began (discussed in Section 4.2.3). 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 (and TW4-41) pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (generally toward TW4-30, which bounds the 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. Pumping at TW4-41 since the second quarter of 2018 is expected to enhance this decline.

Decreasing water level trends are also consistent with reduced wildlife pond seepage. The decay of the groundwater mound associated with the southern wildlife pond, which is 3 to 4 times closer to the southern extremity of the chloroform plume than the northern ponds, is expected to impact water levels within and adjacent to this portion of the plume. Reduced wildlife pond seepage, in particular, reduced seepage from the southern wildlife pond, likely contributes to decreasing water level trends (since about the fourth quarter of 2013), and increased concentrations (since the first quarter of 2014 and the third quarter of 2016, respectively) at TW4-6 and TW4-26.

As the groundwater mound associated with the southern pond decays, groundwater flow directions in the southern extremity of the plume are likely to become more southerly, and plume migration is likely to turn more to the south. An increasingly southerly direction of plume migration is consistent with increased concentrations at TW4-26.

In addition, generally decreasing concentrations at TW4-6 since the third quarter of 2015, and generally increased concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increased chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26. The enhancement of pumping in the vicinity of TW4-4 by the start-up of TW4-41 pumping in the second quarter of 2018 is likely to increase this apparent separation and to have resulted in concentrations at TW4-6 dropping below 70 µg/L after the second quarter of 2018. Furthermore, the initiation of pumping at TW4-40 this quarter is expected to reduce or prevent chloroform migration to the south of TW4-40.

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) suggest ongoing, but slow, downgradient migration of chloroform from the southeastern extremity of the plume (near TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27. Pumping at TW4-41 is expected to reduce or prevent future migration of chloroform toward these wells.

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 first quarter of 2019, as submitted with the Chloroform Monitoring Report for the first quarter of 2019, is attached under Tab E. A comparison of the water table contour maps for the current quarter (second quarter of 2019) to the water table contour maps for the previous quarter (first quarter of 2019) indicates the following: water level changes at the majority of site wells were small (< 1foot); water level contours have not changed significantly except in the vicinities of many of the nitrate and chloroform pumping wells. Overall, total capture is larger than last quarter; and capture has increased within the southern portion of the chloroform plume.

Drawdown patterns and overall capture associated with pumping of the original chloroform pumping wells MW-4, MW-26, and TW4-19 have changed as additional groups of wells have been added to the pumping network. A large expansion in capture occurred within a year of the initiation of pumping at nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 in the first quarter of 2013. Additional large expansions occurred once chloroform pumping wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 became operational in 2015, and once TW4-39 became operational in the fourth quarter of 2016. Significant expansion of capture to the south has resulted from pumping of TW4-41 since the second quarter of 2018 and from initiation of pumping at TW4-40 this quarter.

The drawdowns at chloroform pumping well TW4-39; and nitrate pumping wells TW4-22 and TW4-24 increased by more than 2 feet this quarter. However drawdowns at chloroform pumping wells TW4-1, TW4-4, TW4-19, TW4-37 and TW4-41; and nitrate pumping well TWN-2 decreased by more than 2 feet this quarter. Water level changes at other nitrate and chloroform pumping wells were 2 feet or less, although both increases (decreases in drawdown) and decreases (increases in drawdown) occurred. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken. The reported water level for chloroform pumping well TW4-11 is below the depth of the Brushy Basin contact this quarter. Although both increases and decreases in drawdown occurred in pumping wells, the overall apparent capture area of the combined pumping system is larger than last quarter.

As discussed in Section 4.1.1, pumping at chloroform well TW4-4, which began in the first quarter of 2010, depressed the water table near TW4-4, but a well-defined cone of depression was not clearly evident until the third quarter of 2018, likely due to variable permeability conditions near TW4-4 and the historically relatively low water level at adjacent well TW4-14. The expanded cone of depression associated with TW4-4 and adjacent pumping well TW4-41 since the initiation of pumping at TW4-41 in the second quarter of 2018 has contributed to southerly expansion of total pumping system capture. As discussed above, southerly expansion of capture is additionally enhanced this quarter by the initiation of pumping at TW4-40.

Reported water level decreases of up to 0.38 feet at Piezometers 2 and 3A 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 up to 0.22 feet at Piezometers 4 and 5 likely result primarily from reduced recharge at the southern wildlife pond. Reported water level decreases of approximately 0.31 and 0.26 feet, respectively, at TWN-1 and TWN-4 are consistent with continuing decay of the northern groundwater mound.

The reported water level at MW-20 decreased by approximately 3.9, compensating for the increase reported last quarter. Water level variability at MW-20 likely results from low permeability and variable intervals between purging/sampling and water level measurement.

Measurable water was not reported at DR-22. Although DR-22 is typically dry, measurable water was reported in the bottom of its casing between the second quarter of 2015 and the third quarter of 2016.

An increase in water level of approximately 8.5 feet was reported at TW4-16, compensating for the decrease of approximately 9 feet reported last quarter. The decrease reported last quarter was likely the result of measurement error.

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 and TW4-19 since 2003; TW4-20 since 2005; TW4-4 since 2010; TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 since 2015; TW4-39 since the fourth quarter of 2016; TW4-41 since the second quarter of 2018; and TW4-40 since the second quarter of 2019 (current quarter). The primary purpose of the pumping is to reduce total chloroform mass in the perched zone as rapidly as is practical.

The original pumping wells upgradient of TW4-4 were chosen because 1) they were 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 original pumping wells resulted in the wells having a relatively high productivity. The combination of relatively high productivity and high chloroform concentrations allowed for a high rate of chloroform mass removal. TW4-4 and TW4-41 are 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 and TW4-41 helps to reduce the rate of chloroform migration in downgradient portions of the plume.

Although pumping of TW4-6 and TW4-26 (located south of TW4-4 and TW4-41) is impractical due to low permeability and small saturated thicknesses, the permeability in the vicinity of TW4-40 (located south of TW4-26) is large enough to make pumping practical. TW4-40 is valuable in that it is located within the downgradient (southern) toe of the plume and is relatively productive. Pumping of TW4-40 is likely to more effectively reduce or prevent further downgradient plume migration than can be expected by pumping at the more upgradient locations.

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. As discussed in Section 4.1.1, although chloroform pumping well TW4-4 became operational in 2010, the drawdown associated with TW4-4 was likely less apparent due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14. However, pumping at adjacent well TW4-41 since the second quarter of 2018 has generally increased drawdowns in this area; the third quarter of 2018 was the first quarter that a well-defined cone of depression was associated with TW4-4. As discussed in Section 4.1.2 the combined pumping of TW4-4 and TW4-41, enhanced by initiation of pumping at TW4-40 during the second quarter of 2019 (current quarter), has contributed to southerly expansion of total pumping system capture. Overall, the water level contour maps indicate effective capture of water containing high chloroform concentrations in the vicinities of the pumping wells.

Compared to last quarter, both increases and decreases in water levels occurred at nitrate and chloroform pumping wells, although changes in water levels in chloroform pumping wells MW-4, MW-26, TW4-2, TW4-11, TW4-20, TW4-21 and TW4-40; and nitrate pumping well TW4-25 were less than two feet. The water levels in chloroform pumping wells TW4-2, TW4-39 and TW4-40 decreased by approximately 0.21, 10.3 and 1.8 feet, respectively; and the water levels in nitrate pumping wells TW4-22, TW4-24 and TW4-25 decreased by approximately 9.4, 12.8 and 0.9 feet, respectively. Water level increases of approximately 0.1, 1.7, 8.1, 15, 0.8, 10, 1.3, 0.6, 2.4 and 6 feet occurred in chloroform pumping wells MW-4, MW-26, TW4-1, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37 and TW4-41; and an increase of 15.5 feet occurred in nitrate pumping well TWN-2. The overall apparent combined capture area of the nitrate and chloroform pumping systems is larger than last quarter, and capture has expanded to the south due to initiation of pumping at TW4-40.

The capture associated with nitrate pumping wells and chloroform pumping wells added since the beginning of 2015 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 in the vicinities of many wells 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).

Decreases in productivity at TW4-4 since the third quarter of 2016 have been addressed by the operation of adjacent pumping well TW4-41 since the second quarter of 2018.

Pumping from wells within and immediately adjacent to 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, TW4-37, TW4-39, TW4-40 and TW4-41) is approximately 5.1 gpm. This calculation is based on the total volume pumped by these wells over the 90 day quarter (661,840 gallons) and accounts for times that the pumps are off due to insufficient water columns in the wells. Pumping from these wells exceeds the calculated background flow by 1.7 gpm or 50 %, and is considered adequate at the present time even with the reduced productivities of some wells. 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 96 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 has decreased from 1,180 µg/L during the first quarter of 2015 to 15.8 µg/L this quarter (and remains outside the plume), concentrations at TW4-6 have increased from approximately 10 µg/L since the second quarter of 2014. The generally increased concentration is likely related to both reduced dilution and more westward flow induced by nitrate pumping.

TW4-6 is located immediately south and historically cross- to downgradient of chloroform pumping well TW4-4. TW4-6 has been incorporated into the chloroform plume twice: from the first quarter of 2009 through the third quarter of 2010; and from the third quarter of 2014 through the second quarter of 2018. Pumping of TW4-6 (and TW4-26) is impractical because of relatively low permeability and relatively small saturated thicknesses. However, pumping at more productive locations upgradient of TW4-6 (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 was demonstrated by the net decreases in TW4-6 chloroform concentrations from 1,000 µg/L to 10.3 µg/L, and in TW4-26 from 13 µg/L to 4.2 µg/L, between the initiation of TW4-4 pumping and the second quarter of 2014. Concentrations at these wells decreased substantially even though they did 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 was 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, TW4-11 and TW4-41. Regardless of whether TW4-6 was demonstrably within the hydraulic capture of TW4-4, pumping TW4-4, and relatively recently installed adjacent pumping well TW4-41, helps to reduce chloroform migration to TW4-6, TW4-26, and other downgradient locations by the mechanisms discussed above.

Likewise, pumping at other productive upgradient locations has a beneficial impact on downgradient chloroform even if the downgradient chloroform is not completely within the hydraulic capture of the productive upgradient well(s). For example, pumping at MW-26 likely reduced chloroform concentrations at TW4-16 from a maximum of 530 µg/L in the second quarter of 2004 to less than 70 µg/L by the fourth quarter of 2005, and maintained concentrations below 70 µg/L until the second quarter of 2014, even though TW4-16 appears to be 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, TW4-11 TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 since the beginning of 2015. In particular, the addition of wells TW4-1, TW4-2, TW4-11, TW4-21, TW4-37 and TW4-39 likely halted the mid-2013 to end of 2014 increase in concentration at TW4-16 from non-detect to 387 µg/L. Concentrations at TW4-16 dropped from 387 µg/L in the fourth quarter of 2014 to less than 70 µg/L by the second quarter of 2015. Chloroform at TW4-16 has been above and below 70 µg/L since the second quarter of 2015 and was detected at 76.2 µg/L this quarter.

Chloroform exceeding 70 µg/L was detected in the second quarter of 2013 at TW4-29, installed during the first quarter of 2013 and located south of TW4-27 and east of TW4-26. With respect to historic groundwater flow directions implied by historic groundwater elevations in this area, TW4-29 was positioned generally cross-gradient of TW4-4 and TW4-6. As discussed in Section 4.1.1, chloroform detected at TW4-29 may have migrated around the low permeability area defined by TW4-27, TW4-14 and TW4-36. The apparent migration pathway from TW4-4 to TW4-29 is consistent with chloroform exceeding 70 µg/L detected in the fourth quarter of 2013 at TW4-33, installed during the third quarter of 2013 and 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 (augmented by pumping at adjacent well TW4-41) 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 (and TW4-41) 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 increases in concentration at TW4-29 since the third quarter of 2014 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 (and TW4-41) 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. However, as discussed in Section 4.1.1, decreasing water level trends are also consistent with reduced wildlife pond seepage. The decay of the groundwater mound associated with the southern wildlife pond, which is 3 to 4 times closer to the southern extremity of the chloroform plume than the northern ponds, is likely to have an impact on water levels within and adjacent to this portion of the plume.

As discussed in Section 4.1.1, generally decreasing water level trends (since about the fourth quarter of 2013), and increased concentrations (since the first quarter of 2014 and the third quarter of 2016, respectively) at TW4-6 and TW4-26, are also consistent with reduced wildlife pond seepage, in particular reduced seepage from the southern wildlife pond. As the groundwater mound associated with the southern pond decays, groundwater flow directions in the southern extremity of the plume are likely to become more southerly, and plume migration is likely to turn more to the south. An increasingly southerly direction of plume migration is consistent with increased concentrations at TW4-26 (from less than 10 µg/L in the third quarter of 2016 to 1,070 µg/L this quarter).

In addition, as in the area near TW4-29 and TW4-33, generally decreasing concentrations at TW4-6 since the third quarter of 2015, and generally increased concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 (and TW4-41) pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increased chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26. The enhancement of pumping in the vicinity of TW4-4 by the start-up of TW4-41 pumping in the second quarter of 2018 is likely to increase this apparent separation and to have resulted in concentrations at TW4-6 dropping below 70 µg/L beginning in the third quarter of 2018.

Furthermore, detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) suggest ongoing, but slow, downgradient migration of chloroform from the southeastern extremity of the plume into the low permeability materials penetrated by these wells.

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

4.2 Review of Analytical Results

4.2.1 Current Chloroform Isoconcentration Map

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

4.2.2 Chloroform Concentration Trend Data and Graphs

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

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

4.2.3 Interpretation of Analytical Data

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

a) Chloroform concentrations have increased by more than 20% in the following wells compared to last quarter: TW4-1, TW4-2, TW4-16, TW4-19, TW4-21, TW4-27, TW4-30, TW4-33, TW4-37, TW4-39 and TW4-40;

b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: TW4-6 and TW4-9;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, MW-26, TW4-4, TW4-5, TW4-7, TW4-8, TW4-10, TW4-11, TW4-14, TW4-18, TW4-20, TW4-22, TW4-24, TW4-26, TW4-29 and TW4-41;

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, TW4-36 and TW4-38; and

e) Chloroform was not detected at new well TW4-42.

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 TW4-1, TW4-2, TW4-6, TW4-9, TW4-16, TW4-19, TW4-21, TW4-27, TW4-30, TW4-33, TW4-37, TW4-39 and TW4-40 had changes in concentration greater than 20%. Of these, TW4-1, TW4-2, TW4-19, TW4-21, TW4-37, TW4-39 and TW4-40 are chloroform pumping wells. TW4-6 is located adjacent to chloroform pumping well TW4-4; TW4-9 is located near chloroform pumping well TW4-39; TW4-16 is located near chloroform pumping wells MW-26 and TW4- 11; and TW4-33

is located near chloroform pumping wells TW4-4 and TW4-41. 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, TW4-6, TW4-9 and TW4-30 are located just outside, and TW4-33 just inside the plume boundary. Fluctuations in concentrations at these wells are expected based on their locations near the plume margins.

Chloroform pumping wells TW4-11, TW4-19, TW4-20, TW4-37 and TW4-39; and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 2,970; 11,500; 13,700; 16,200; 8,640 and 4,690 µg/L, respectively. Since last quarter, the chloroform concentrations in TW4-11 increased from 2,820 to 2,970 µg/L; TW4-19 increased from 2,050 to 11,500 µg/L; TW4-20 decreased from 15,600 µg/L to 13,700 µg/L; TW4-37 increased from 13,300 µg/L to 16,200 µg/L; and TW4-39 increased from 885 to 8,640 µg/L. In addition, the chloroform concentration in chloroform pumping well TW4-21 increased from 323 to 734 µg/L; the concentration in nitrate pumping well TW4-22 increased from 4,310 to 4,690 µg/L; and the concentration in nitrate pumping well TW4-24 increased slightly from 28.1 to 28.8 µg/L. TW4-24 remains just outside the chloroform plume and nitrate pumping well TW4-25 remained non-detect. 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 103 µg/L to 96 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,300 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 and TW4-38 (both 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 (4.2 µg/L).

Chloroform at TW4-29 (located at the southeastern extremity of the plume, to the east of TW4-26 and to the south of TW4-27) increased from 507 µg/L to 537 µg/L, and chloroform at TW4-30, located immediately cross- to downgradient of TW4-29, increased from approximately 25 µg/L to approximately 32 µg/L. Chloroform at TW4-14 increased slightly from 4.1 µg/L to 4.2 µg/L and chloroform at TW4-27 increased from approximately 6.5 µg/L to 8.2 µg/L. Concentration trends at these wells are generally consistent with ongoing, but slow, downgradient migration of chloroform at these locations. Chloroform at TW4-29 is bounded to the north by TW4-27 (8.2 µg/L), to the east by TW4-30 (32 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west-northwest by TW4-6 (approximately 16 µg/L) and TW4-23 (non-detect). General increases in concentrations at TW4-26 since the third quarter of 2016 are also consistent with continuing downgradient chloroform migration which is likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed an increase in concentration, from approximately 86 µg/L to 121 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (4.2 µg/), to the east by TW4-27 (8.2 µg/L), and to the west by TW4-6 (approximately 16 µg/L) and TW4-23 (non-detect). Recent increases in concentration at TW4-26 have widened the southeast extremity of the plume which historically was narrow compared to more upgradient locations.

The chloroform concentration in TW4-6 decreased from approximately 23 µg/L to 16 µg/L; TW4-6 has remained outside the chloroform plume since the third quarter of 2018. Installed in the second quarter of 2000, TW4-6 was the most downgradient temporary perched well prior to installation of TW4-23 in 2007 and TW4-26 in the second quarter of 2010. TW4-6 remained outside the chloroform plume between installation in the second quarter of 2000 and the fourth quarter of 2008 likely 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.TW4-6 was subsequently incorporated into the plume twice: from the first quarter of 2009 through the third quarter of 2010; and from the third quarter of 2014 through the second quarter of 2018. 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.

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 two 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 orders of magnitude decrease in permeability south (downgradient) of TW4-4. Chloroform migration rates in the vicinities of wells TW4-26, TW4-29 and TW4-33 have been 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 both 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 slight expansions near TW4-16 and TW4-21 and a slight contraction near TW4-9. Chloroform concentrations at TW4-9 decreased from approximately 86 µg/L to 68 µg/L shifting the plume boundary away from TW4-38 (non-detect) located immediately to the east-southeast. TW4-9 was incorporated into the plume from the first quarter of 2016 until the first quarter of 2019 (last quarter) due to increased concentrations attributable to reduced recharge (and dilution) from the northern wildlife ponds. Prior to the first quarter of 2016, however TW4-9 was outside the plume except during the fourth quarter of 2014.

Nitrate pumping generally caused the western 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). Since the second quarter of 2014, generally higher concentrations at TW4-6 and TW4-16 (both of which were within the chloroform plume in the past) indicate that the plume boundary migrated to the southwest and re-incorporated both wells. This quarter, TW4-6 remains outside the plume while TW4-16 is again just inside the plume. Generally increased concentrations at these wells since the first 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. In addition, concentrations at TW4-6 are likely influenced by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound. A decreasing trend in chloroform concentration at TW4-6 since the third quarter of 2015, and generally increased concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increased chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26. Pumping at TW4-41, located adjacent to TW4-4, and pumping at TW4-40, located just south (downgradient) of TW4-26, is expected to reduce or halt plume expansion to the south.

Although the nitrate pumping system may redistribute chloroform within the plume and cause changes in the chloroform plume boundaries, continued operation of the nitrate pumping system is expected to enhance capture associated with the chloroform pumping system. Furthermore, since the beginning of 2015, the addition of chloroform wells TW4-1, TW4-2, TW4-11, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41, is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16 (since the fourth quarter of 2014) after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping during 2015. Continued reductions at TW4-6 are anticipated to result from pumping at TW4-41.

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. Beginning in December

2016 EFRI began long term pumping of TW4-39. Beginning in April 2018 EFRI began long term pumping of TW4-41. Beginning in May 2019 EFRI began long term pumping of TW4-40.

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, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, MW-26, TW4-20, TW4-21, TWN-2, TW4-22, TW4-24, TW4-25, TW4-37, TW4-39 TW4-40, and TW4-41 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.

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, TW4-39, TW4-41, 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, TW4-39, TW4-40 (beginning May 2019), TW4-41 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.

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

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

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 26.2 lb., which is approximately 62% larger than the approximately 16.2 lb. removed last quarter. The larger rate of mass removal is attributable primarily to the increased concentrations at TW4-19 and TW4-39.

The residual mass of chloroform within the plume is estimated as 1,408 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 575 lb. larger than last quarter's estimate of 833 lb. 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. Since the third quarter of 2015 the trend is downward; the current quarter's estimate of 1,408 lb. is substantially lower than both the third quarter 2015 estimate of 1,712 lb., and the maximum of 2,261 lb. estimated for the second quarter of 2016. 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.

As discussed in the CACME Report, the calculated chloroform mass is larger since the cessation of water delivery to the two northern wildlife ponds in the first quarter of 2012. These ponds are located immediately upgradient of the chloroform plume. The increase in calculated mass results from increased plume area and increased average concentrations within the plume. The increases

in both plume area and average concentrations are attributable to reduced dilution due to the reduction in chloroform-free wildlife pond seepage.

The general decrease in the residual mass estimates since the second quarter of 2016 suggests stabilization. Although the residual mass estimates are generally larger since 2012, the rate of mass removed per quarter by pumping is also generally larger, in particular since the addition of 8 new pumping wells since the beginning of 2015. Furthermore, although the pumping system is not designed to hydraulically capture the entire plume, the proportion of the mass of the plume under capture has historically been large. The proportion of the mass of the plume under capture during the fourth quarters of 2012, 2013, 2014, 2015, 2016, 2017 and 2018 ranged from approximately 84% to 93%. The approximate proportion of the mass of the plume under capture this quarter is 99 %, about the same as last quarter.

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

No corrective actions were necessary for the current reporting period.

6.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions required during the previous quarters' 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), TW4-6 (approximately 16 µg/L), TW4-23 (non-detect), and TW4-24 (approximately 29 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 16 µg/L), TW4-9 (approximately 68 µg/L), TW4-13 (non-detect), TW4-14 (approximately 4 µg/L), TW4-18 (approximately 54 µg/L), TW4-27 (approximately 8 µg/L), TW4-30 (approximately 32 µg/L), TW4-36 (non-detect) and TW4-38 (non-detect); to the south by TW4-34 (non-detect) and TW4-42 (non-detect); and to the southeast by TW4-35 (non-detect).

Because TW4-26 no longer bounded the chloroform plume to the south-southwest, TW4-40 was installed south (downgradient) of TW4-26 during the first quarter of 2018. Because the second quarter of 2018 was the second consecutive quarter that chloroform in TW4-40 exceeded 70 µg/L, the required Plan and Time Schedule was submitted and TW4-42 was installed

approximately 200 feet south of TW4-40 during April, 2019. Chloroform was not detected in TW4-42 during the initial sampling this quarter, indicating that TW4-42 bounds the plume immediately to the south-southwest. Regardless, MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient). 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. The two new wells that were installed during the quarter as well as all previously installed wells were installed in accordance with the GCAP requirements. The 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 as noted in previous reports. The previously noted exceedances have been addressed in Plans and Time Schedules. There are no new exceedances in this reporting period.

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 1,408 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 575 lb. more than last quarter's estimate of 833 lb. The mass of chloroform removed from the plume this quarter is approximately 26.2 lb., which is approximately 62% larger than the approximately 16.2 lb. removed last quarter. The larger rate of mass removal is attributable primarily to the increased chloroform concentrations at TW4-19 and TW4-39.

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), TW4-6 (approximately 16 µg/L), TW4-23 (non-detect), and TW4-24 (approximately 29 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 16 µg/L), TW4-9 (approximately 68 µg/L), TW4-13 (non-detect), TW4-14 (approximately 4 µg/L), TW4-18 (approximately 54 µg/L), TW4-27 (approximately 8 µg/L), TW4-30 (approximately 32 µg/L), TW4-36 (non-detect) and TW4-38 (non-detect); to the south by TW4-34 (non-detect) and TW4-42 (non-detect); and to the southeast by TW4-35 (non-detect).

Because TW4-26 no longer bounded the chloroform plume to the south-southwest, TW4-40 was installed south (downgradient) of TW4-26 during the first quarter of 2018. Because the second quarter of 2018 was the second consecutive quarter that chloroform in TW4-40 exceeded 70 µg/L, the required Plan and Time Schedule was submitted and TW4-42 was installed approximately 200 feet south of TW4-40 during April, 2019. Chloroform was not detected in TW4-42 during the initial sampling this quarter, indicating that TW4-42 bounds the plume immediately to the south-southwest. Regardless, MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient). 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 second quarter, 2019 indicate effective capture of water containing high chloroform concentrations over most of the chloroform plume. Capture in the southeastern portion of the plume (vicinity of MW-4) was enhanced by start-up of chloroform pumping wells TW4-1, TW4-2, and TW4-11 during the first quarter of 2015. Capture in the northwestern portion of the plume was enhanced by start-up of chloroform pumping wells TW4-21 and TW4-37 during the second quarter of 2015; and of TW4-39 during the fourth quarter of 2016. Capture in the southernmost portion of the plume was enhanced by start-up of pumping at TW4-41 during the second quarter of 2018 and of TW4-40 during the second quarter of 2019 (current quarter). All pumping wells added since the beginning of 2015 have enhanced the effectiveness of chloroform mass removal.

Although pumping began in the first quarter of 2010, a well-defined capture zone was not clearly evident at chloroform pumping well TW4-4 until the third quarter of 2018. Increased drawdowns in this area since the second quarter of 2018, and development of a definable capture zone, is attributable to pumping at adjacent well TW4-41.

The capture zone associated with TW4-4 was likely obscured prior to the second quarter of 2018 by the historically relatively low water level at adjacent well TW4-14 and the two orders of magnitude decrease in permeability south of TW4-4. However, as noted in previous reports, 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 of 2013, and capture associated with the nitrate pumping is expected to continue to develop. Overall, the apparent capture area of the combined chloroform and nitrate pumping systems is larger than last quarter, and capture has expanded to the south due to start-up of pumping at TW4-40.

'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 wells within and immediately adjacent to 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, TW4-37, TW4-39, TW4-40 and TW4-41) is approximately 5.1 gpm, which exceeds the calculated background flow by 1.7 gpm or 50%, and 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. Wells TW4-1, TW4-2, TW4-6, TW4-9, TW4-16, TW4-19, TW4-21, TW4-27, TW4-30, TW4-33, TW4-37, TW4-39 and TW4-40 had changes in concentration greater than 20%. Of these, TW4-1, TW4-2, TW4-19, TW4-21, TW4-37, TW4-39 and TW4-40 are chloroform pumping wells. TW4-6 is located adjacent to chloroform pumping well TW4-4; TW4-9 is located near chloroform pumping well TW4-39; TW4-16 is located near chloroform pumping wells MW-26 and TW4-11; and TW4-33 is located near chloroform pumping wells TW4-4 and TW4-41.

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, TW4-6, TW4-9 and TW4-30 are located just outside, and TW4-33 just inside the plume boundary. Fluctuations in concentrations at these wells are expected based on their locations near the plume margins. Furthermore, changes in concentrations at chloroform wells are expected to result from continued operation of nitrate pumping wells as the capture associated with nitrate pumping expands and flow directions change locally.

Chloroform pumping wells TW4-11, TW4-19, TW4-20, TW4-37 and TW4-39; and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 2,970; 11,500; 13,700; 16,200; 8,640 and 4,690 µg/L, respectively. Since last quarter, the chloroform concentrations in TW4-11 increased from 2,820 to 2,970 µg/L; TW4-19 increased from 2,050 to 11,500 µg/L; TW4-20 decreased from 15,600 µg/L to 13,700 µg/L; TW4-37 increased from 13,300 µg/L to 16,200 µg/L; and TW4-39 increased from 885 to 8,640 µg/L. In addition, the chloroform concentration in chloroform pumping well TW4-21 increased from 323 to 734 µg/L; the concentration in nitrate pumping well TW4-22 increased from 4,310 to 4,690 µg/L; and the concentration in nitrate pumping well TW4-24 increased slightly from 28.1 to 28.8 µg/L. TW4-24 remains just outside the chloroform plume and nitrate pumping well TW4-25 remained non-detect. 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 103 µg/L to 96 µg/L TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,300 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 and TW4-38 (both 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 (4.2 µg/L).

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 (near TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27. Chloroform at TW4-14 increased slightly from approximately 4.1 µg/L to 4.2 µg/L and chloroform at TW4-27 increased from approximately 6.5 µg/L to approximately 8.2 µg/L. Pumping at TW4-41 is expected to reduce or prevent future migration of chloroform toward these wells.

Concentration trends at TW4-29 (located at the southeastern extremity of the plume, to the east of TW4-26 and to the south of TW4-27) and at TW4-30 (located immediately cross- to downgradient of TW4-29), are also generally consistent with ongoing, but slow, downgradient migration of chloroform. Chloroform at TW4-29 increased from 507 µg/L to 537 µg/L, and chloroform at TW4-30 increased from approximately 25 µg/L to approximately 32 µg/L. Chloroform at TW4-29 is bounded to the north by TW4-27 (8.2 µg/L), to the east by TW4-30 (32 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west-northwest by TW4-6 (approximately 16 µg/L) and TW4-23 (non-detect). In addition, general increases in concentrations at TW4-26 since the third quarter of 2016 are consistent with continuing downgradient chloroform migration, which is likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed an increase in concentration, from approximately 86 µg/L to 121 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (4.2 µg/), to the east by TW4-27 (8.2 µg/L), and to the west by TW4-6 (approximately 16 µg/L) and TW4-23 (non-detect). Increases in concentration at TW4-26 since the third quarter of 2016 have widened the southeast extremity of the plume, which historically was 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 slight expansions near TW4-16 and TW4-21 and a slight contraction near TW4-9. Chloroform concentrations at TW4-9 decreased from approximately 86 µg/L to 68 µg/L shifting the plume boundary away from TW4-38 (non-detect) located immediately to the east-southeast. TW4-9 was incorporated into the plume from the first quarter of 2016 until the first quarter of 2019 (last quarter) due to increased concentrations attributable to reduced recharge (and dilution) from the

northern wildlife ponds. However, except for the fourth quarter of 2014, TW4-9 was outside the plume prior to the first quarter of 2016.

Nitrate pumping generally caused the western 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). Since the second quarter of 2014, generally increased concentrations at TW4-6 and TW4-16, (both of which were within the chloroform plume in the past) indicate that the plume boundary migrated to the southwest and re-incorporated both wells. TW4-16 is within and TW4-6 is outside the plume this quarter. Increased concentrations at these wells since the first 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. In addition, concentrations at TW4-6 may be influenced by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound.

A decreasing trend in chloroform concentration at TW4-6 since the third quarter of 2015, and generally increased concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that the increased chloroform at TW4-26 results from a remnant of the plume that continues to migrate south toward TW4-26. Pumping at adjacent well TW4-41 since the second quarter of 2018 has likely enhanced the decreases at TW4-6 and resulted in concentrations at TW4-6 that have dropped below 70 µg/L.

Although the nitrate pumping system may redistribute chloroform within the plume and cause changes in the chloroform plume boundaries, continued operation of the nitrate pumping system is expected to enhance capture associated with the chloroform pumping system. Furthermore, the addition of chloroform pumping wells TW4-1, TW4-2, TW4-11, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 since the beginning of 2015 is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16 (since the fourth quarter of 2014) 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, augmented by pumping at adjacent new well TW4-41, 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. The decreasing trend in water levels beginning in 2014 and, as noted above, the generally decreasing chloroform

concentrations since the first quarter of 2015 at TW4-6 are also attributable in part to TW4-4 pumping. Continued operation of TW4-1, TW4-2, TW4-11, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 is recommended because pumping these wells has increased overall capture and improved chloroform mass removal.

Furthermore, because of the influence of TW4-4 pumping (augmented by TW4-41 pumping since the second quarter of 2018), 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 to decreasing, 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. Pumping at adjacent well TW4-41 is likely to enhance these decreasing trends in water levels and to augment the expected reductions in concentrations in the distal end of the plume. 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. Generally increased chloroform concentrations at TW4-6 (since the first quarter of 2014); and at TW4-8, TW4-9 and TW4-16 (since 2013), are likely related in part to reduced dilution (although concentrations at TW4-6 and TW4-8 have been trending downward since the first quarter of 2015). As discussed above, increased concentrations at TW4-26 since the third quarter of 2016 that are consistent with continuing downgradient chloroform migration are also likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

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 Director 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.

Energy Fuels Resources (USA) Inc.

By:

Scott A. Bakken
Senior Director Regulatory Affairs

8/15/19
Date

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	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-01	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-02	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-03	6/13/2029	*(7/8/2019)* - 7/26/19
TW4-03R	6/12/2019	*(7/8/2019)* - 7/26/19
TW4-04	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-05	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-06	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-07	6/19/2019	7/5/2019
TW4-08	6/19/2019	7/5/2019
TW4-09	6/19/2019	7/5/2019
TW4-10	6/19/2019	7/5/2019
TW4-11	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-12	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-13	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-14	6/13/2019	*(7/8/2019)* - 7/26/19
MW-26	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-16	6/19/2019	7/5/2019
MW-32	6/18/2019	7/5/2019
TW4-18	6/19/2019	7/5/2019
TW4-18R	6/18/2019	7/5/2019
TW4-19	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-20	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-21	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-22	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-23	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-24	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-25	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-26	6/19/2019	7/5/2019
TW4-27	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-28	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-29	6/19/2019	7/5/2019
TW4-30	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-31	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-32	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-33	6/19/2019	7/5/2019
TW4-34	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-35	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-36	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-37	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-38	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-39	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-40	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-41	6/5/2019	*(06/18/2019)* - 6/26/2019
TW4-42	6/19/2019	7/5/2019
TW4-60	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-65	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-70	6/13/2019	*(7/8/2019)* - 7/26/19
TW4-75	6/19/2019	7/5/2019

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

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

TW4-60 is a DI Field Blank, TW4-65 is a duplicate of TW4-03, and TW4-70 is a duplicate of TW4-38 and TW4-75 is a duplicate of TW4-38.

Highlighted wells are continuously pumped.

Notes:

Dates in italics are the original laboratory submission dates. Resubmissions were required to correct reporting errors or to address reanalyses.

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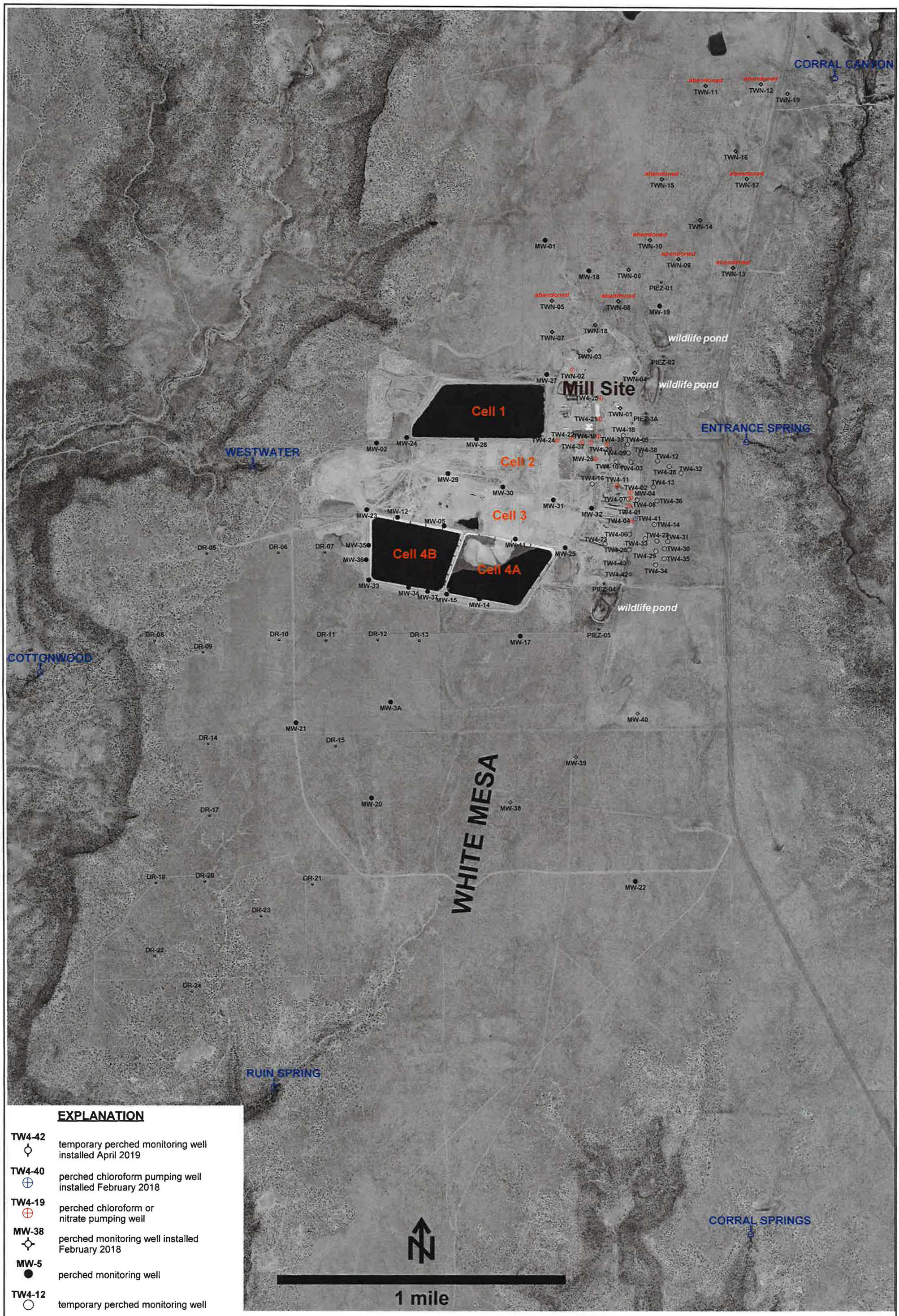
Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- **TW4-42** — temporary perched monitoring well installed April 2019
- **TW4-40** — perched chloroform pumping well installed February 2018
- **TW4-19** — perched chloroform or nitrate pumping well
- **MW-38** — perched monitoring well installed February 2018
- **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/aug19/Uwelloc0619.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 2nd Quarter 2019 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	6/13/19 0645	ND			141	TW4-03R_06122019 0615
TW4-28	6/13/19 0705	ND			107	
TW4-32	6/18/19 0712	ND			115.1	
TW4-12	6/13/19 0720	ND			101.5	
TW4-13	6/13/19 0728	ND			102.5	
TW4-36	6/13/19 0736	ND			99	
TW4-31	6/13/19 0747	ND			106	
TW4-34	6/13/19 0758	ND			97.2	
TW4-35	6/13/19 0807	ND			87.5	
TW4-23	6/13/19 0831	ND			114	
MW-32	6/18/19 1130	ND			130.6	Bladder pump
TW4-38	6/13/19 0841	ND			112.75	
TW4-25	6/5/19 0705	ND			134.8	Cont. Pumping
TW4-14	6/13/19 0855	4.08			93	
TW4-27	6/13/19 0906	6.54			96	
TW4-05	6/13/19 0920	14.1			120	
TW4-06	6/13/19 0935	23.2			97.5	
TW4-30	6/13/19 0945	25.3			92.5	
TW4-24	6/5/19 0715	28.1			112.5	Cont. Pumping
TW4-18	6/19/19 0610	52.8			137.5	TW4-18R_06182019 0620
TW4-16	6/19/19 0625	60.6			146.3	
TW4-33	6/19/19 0634	86.2			87.9	
TW4-09	6/19/19 0645	86.4			120	
TW4-01	6/5/19 0830	87.2			110	Cont. Pumping
TW4-08	6/19/19 0653	103			125	
TW4-40	6/5/19 0900	111			86	Cont. Pumping
TW4-21	6/5/19 0655	323			121	Cont. Pumping
TW4-29	6/19/19 0701	507			93.5	
TW4-07	6/19/19 0711	736			120	
TW4-10	6/19/19 ~~0723~~	869	0723		111	
TW4-39	6/5/19 0747	885			120	Cont. Pumping
TW4-26	6/19/19 0733	963			86	
TW4-02	6/5/19 0815	1040			120	Cont. Pumping
TW4-04	6/5/19 0850	1050			112	Cont. Pumping
MW-26	6/5/19 0755	1110			122.5	Cont. Pumping
MW-04	6/5/19 0823	1190			124	Cont. Pumping
TW4-41	6/5/19 0840	1220			97.75	Cont. Pumping
TW4-19	6/5/19 0930	2050			125	Cont. Pumping
TW4-11	6/5/19 0805	2820			100	Cont. Pumping
TW4-22	6/5/19 0723	4310			113.5	Cont. Pumping
TW4-37	6/5/19 0730	13300			112	Cont. Pumping
TW4-20	6/5/19 0738	15600			106	Cont. Pumping
TW4-42	6/19/19 0744	TBD			86	

TW4-60 D.I. Blank 6/13/19 1010
TW4-65 ~~3~~ Duplicate 6/13/19 0645
TW4-70 ~~3~~ Duplicate 6/13/19 0841
TW4-75 Duplicate 6/19/19 0610
Comments:

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-04
Field Sample ID	MW-04_06052019
Purge Date & Time	6/5/2019 8:22
Sample Date & Time	6/5/2019 8:23

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	26.07
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	14
Previous Well Sampled	TW4-02

Well Depth (ft)	123.60
Well Casing Diameter (in)	3
Depth to Water Before Purging (ft)	83.67

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:22		1862	6.82	14.65	425	0	

Volume of water purged ()	

Final Depth to Water (feet)	86.45

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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	4.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0818. Samples collected at 0823. Water was clear. Left site at 0825.

Signature of Field Technician

Jaren Holden

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-01
Field Sample ID	TW4-01_06052019
Purge Date & Time	6/5/2019 8:29
Sample Date & Time	6/5/2019 8:30

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	14.76
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	14
Previous Well Sampled	MW-04
Well Depth (ft)	111.30
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	88.69

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:29		3256	6.80	14.83	429	0	

Volume of water purged ()	
Final Depth to Water (feet)	105.34

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0825. Samples collected at 0830. Water was clear. Left site at 0832.

Signature of Field Technician

Dannen Hallsey

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-02
Field Sample ID	TW4-02_06052019
Purge Date & Time	6/5/2019 8:14
Sample Date & Time	6/5/2019 8:15

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	16.07
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	14
Previous Well Sampled	TW4-11

Well Depth (ft)	120.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	96.28

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:14		3527	6.73	14.38	416	0	

Volume of water purged ()	

Final Depth to Water (feet)	112.65

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	17.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0809. Samples collected at 0815. Water was clear. Left site at 0817.

Signature of Field Technician

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-03
Field Sample ID	TW4-03_06132019
Purge Date & Time	6/12/2019 6:40
Sample Date & Time	6/13/2019 6:45

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	51.03
Calculated Casing Volumes Purge Duration (min)	9.27
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-03R

Well Depth (ft)	140.30
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	62.15

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 6:46	71.50	1793	6.39	14.90	573	10.60	
6/13/2019 6:44		1769	6.44	15.52			Before
6/13/2019 6:48		1775	6.45	15.55			After

Volume of water purged (gals)	71.50

Final Depth to Water (feet)	137.48

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	6.50
Number of casing Volumes	1.40
Volume, if well evacuated to dryness (gals)	71.50

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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0637. Purge began at 0640. Purged well for a total of 6 minutes and 30 seconds. Purged well dry. Purge ended at 0646. Left site at 0650.
Arrived on site at 0640. Depth to water was 62.30. Samples bailed and collected at 0645. Left site at 0650.

Signature of Field Technician

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-03R
Field Sample ID	TW4-03R_06122019
Purge Date & Time	
Sample Date & Time	6/12/2019 6:15

Sampling Program	
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	
Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 6:14	130.00	10.5	5.63	22.48	652	0	

Volume of water purged ()	
Final Depth to Water (feet)	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Pumped 50 gallons of soap water and 100 gallons of di water through the pump. Samples collected at 0615.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-04
Field Sample ID	TW4-04_06052019
Purge Date & Time	6/5/2019 8:49
Sample Date & Time	6/5/2019 8:50

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	26.47
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	16
Previous Well Sampled	TW4-41
Well Depth (ft)	114.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.95

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:49		2327	6.95	14.87	452	0	

Volume of water purged ()	
Final Depth to Water (feet)	100.23

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0845. Samples collected at 0850. Water was clear. Left site at 0852.

Signature of Field Technician

Danner Hallsten

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-05
Field Sample ID	TW4-05_06132019
Purge Date & Time	6/12/2019 14:23
Sample Date & Time	6/13/2019 9:20

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	34.11
Calculated Casing Volumes Purge Duration (min)	6.20
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-27

Well Depth (ft)	121.85
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	69.60

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 14:28	55.00	1501	6.71	15.55	526	0	
6/12/2019 14:29	66.00	1490	6.71	15.55	526	0	
6/12/2019 14:30	77.00	1481	6.71	15.55	526	0	
6/12/2019 14:31	88.00	1471	6.70	15.54	526	0	

Volume of water purged (gals)	88.00

Final Depth to Water (feet)	71.90

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	8.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1420. Purge began at 1423. Purged well for a total of 8 minutes. Purge ended at 1431. Water was clear. Left site at 1434.
Arrived on site at 0915. Depth to water was 69.65. Samples bailed and collected at 0920. Left site at 0922.

Signature of Field Technician

Tanner Holliday

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-06
Field Sample ID	TW4-06_06132019
Purge Date & Time	6/12/2019 14:55
Sample Date & Time	6/13/2019 9:35

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	15.16
Calculated Casing Volumes Purge Duration (min)	2.75
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-05

Well Depth (ft)	99.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.38

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 14:56	16.50	3817	6.15	15.95	564	45.60	
6/13/2019 9:34		3865	6.43	16.84			Before
6/13/2019 9:36		3850	6.44	16.86			After

Volume of water purged (gals)	16.50

Final Depth to Water (feet)	97.23

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.50
Number of casing Volumes	1.08
Volume, if well evacuated to dryness (gals)	16.50

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1451. Purge began at 1455. Purged well for a total of 1 minute and 30 seconds. Purged well dry. Purge ended at 1456. Water was murky. Left site at 1500.
Arrived on site at 0931. Depth to water was 67.72. Samples bailed and collected at 0935. Left site at 0937.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-07
Field Sample ID	TW4-07_06192019
Purge Date & Time	6/18/2019 10:05
Sample Date & Time	6/19/2019 7:11

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	25.70
Calculated Casing Volumes Purge Duration (min)	4.67
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	TW4-29
Well Depth (ft)	121.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	81.64

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 10:10	52.25	1659	6.83	15.01	395	113.1	
6/19/2019 7:10		1567	6.94	14.85			Before
6/19/2019 7:12		1574	6.94	14.83			After

Volume of water purged (gals)	52.25
Final Depth to Water (feet)	118.98

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	4.75
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (gals)	52.25

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1002. Purge began at 1005. Purged well for a total of 4 minutes and 45 seconds. Purged well dry. Purge ended at 1010. Water was murky. Left site at 1013. Arrived on site at 0709. Depth to water was 83.91. Samples bailed and collected at 0711. Left site at 0713.

Signature of Field Technician

Jarrod Hallsten

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-08
Field Sample ID	TW4-08_06192019
Purge Date & Time	6/18/2019 9:03
Sample Date & Time	6/19/2019 6:53

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	27.06
Calculated Casing Volumes Purge Duration (min)	4.92
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	18
Previous Well Sampled	TW4-09

Well Depth (ft)	126.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	84.75

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 9:06	33.00	4947	6.43	15.08	527	0	
6/18/2019 9:07	44.00	4931	6.44	15.07	526	0	
6/18/2019 9:08	55.00	4926	6.44	15.08	526	0	
6/18/2019 9:09	66.00	4928	6.44	15.08	525	0	

Volume of water purged (gals)	66.00

Final Depth to Water (feet)	121.34

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	6.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0859. Purge began at 0903. Purged well for a total of 6 minutes. Purge ended at 0909. Water was clear. Left site at 0912. Arrived on site at 0649. Depth to water was 84.93. Samples bailed and collected at 0653. Left site at 0655.

Signature of Field Technician

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-09
Field Sample ID	TW4-09_06192019
Purge Date & Time	6/18/2019 8:30
Sample Date & Time	6/19/2019 6:45

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	34.25
Calculated Casing Volumes Purge Duration (min)	6.22
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	17
Previous Well Sampled	TW4-33

Well Depth (ft)	120.10
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	67.64

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 8:36	66.00	2450	6.50	15.06	497	42.5	
6/18/2019 8:37	77.00	2446	6.51	15.05	495	47.2	
6/18/2019 8:38	88.00	2445	6.51	15.05	492	52.0	
6/18/2019 8:39	99.00	2440	6.50	15.05	489	52.1	

Volume of water purged (gals)	99.00

Final Depth to Water (feet)	69.23

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	9.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0826. Purge began at 0830. Purged well for a total of 9 minutes. Purge ended at 0839. Water was a little murky. Left site at 0842. Arrived on site at 0641. Depth to water was 67.63. Samples bailed and collected at 0645. Left site at 0647.

Signature of Field Technician

Jannece Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-10
Field Sample ID	TW4-10_06192019
Purge Date & Time	6/18/2019 10:35
Sample Date & Time	6/19/2019 7:23

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	30.06
Calculated Casing Volumes Purge Duration (min)	5.46
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	TW4-07

Well Depth (ft)	113.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	67.16

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 10:39	41.25	2908	6.09	15.20	530	4.3	
6/19/2019 7:22		2675	6.47	14.75			Before
6/19/2019 7:24		2674	6.47	14.75			After

Volume of water purged (gals)	41.25

Final Depth to Water (feet)	110.58

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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	3.75
Number of casing Volumes	1.37
Volume, if well evacuated to dryness (gals)	41.25

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1031. Purge began at 1035. Purged well for a total of 3 minutes and 45 seconds. Purge ended at 1039. Purged well dry. Water was clear. Left site at 1038. Arrived on site at 0718. Depth to water was 67.04. Samples bailed and collected at 0723. Left site at 0725.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-11
Field Sample ID	TW4-11_06052019
Purge Date & Time	6/5/2019 8:04
Sample Date & Time	6/5/2019 8:05

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	6.58
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	14
Previous Well Sampled	MW-26

Well Depth (ft)	102.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	92.31

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:04		3676	6.70	14.23	390	0	

Volume of water purged ()	

Final Depth to Water (feet)	100.34

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0800. Samples collected at 0805. Water was clear. Left site at 0808.

Signature of Field Technician

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-12
Field Sample ID	TW4-12_06132019
Purge Date & Time	6/12/2019 8:27
Sample Date & Time	6/13/2019 7:20
Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	32.33
Calculated Casing Volumes Purge Duration (min)	5.87
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL
Weather Conditions	Sunny
External Ambient Temperature (C)	17
Previous Well Sampled	TW4-32
Well Depth (ft)	103.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	53.69

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 8:31	41.25	1662	6.78	15.10	516	5.3	
6/13/2019 7:19		1366	6.99	14.63			Before
6/13/2019 7:21		1365	7.00	14.65			After

Volume of water purged (gals)	41.25
Final Depth to Water (feet)	100.34

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	3.75
Number of casing Volumes	1.27
Volume, if well evacuated to dryness (gals)	41.25

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0824. Purge began at 0827. Purged well for a total of 3 minutes and 45 seconds. Purged well dry. Purge ended at 0831.;Water was clear. Left site at 0833. Arrived on site at 0715. Depth to water was 53.65. Samples bailed and collected at 0720. Left site at 0722.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-13
Field Sample ID	TW4-13_06132019
Purge Date & Time	6/12/2019 9:00
Sample Date & Time	6/13/2019 7:28

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	32.87
Calculated Casing Volumes Purge Duration (min)	5.97
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	TW4-12

Well Depth (ft)	105.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	55.36

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 9:04	41.25	2025	6.94	15.25	500	12.6	
6/13/2019 7:27		1989	7.04	14.76			Before
6/13/2019 7:29		1997	7.04	14.75			After

Volume of water purged (gals)	41.25

Final Depth to Water (feet)	102.95

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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	3.75
Number of casing Volumes	1.25
Volume, if well evacuated to dryness (gals)	41.25

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0856. Purge began at 0900. Purged well for a total of 3 minutes and 45 seconds. Purged well dry. Purge ended at 0904. Water was clear. Left site at 0907. Arrived on site at 0724. Depth to water was 55.15. Samples bailed and collected at 0728. Left site at 0730.

Signature of Field Technician

Tanner Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-14
Field Sample ID	TW4-14_06132019
Purge Date & Time	6/12/2019 13:26
Sample Date & Time	6/13/2019 8:55

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.19
Calculated Casing Volumes Purge Duration (min)	2.03
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-38
Well Depth (ft)	95.10
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	77.95

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 13:27	11.00	5343	6.15	16.39	539	37.3	
6/13/2019 8:55		5248	6.38	16.80			Before
6/13/2019 8:56		5267	6.35	16.78			After

Volume of water purged (gals)	11.00
Final Depth to Water (feet)	93.01

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.0
Time to evacuate 2 Casing Volumes (min)	1.00
Number of casing Volumes	0.98
Volume, if well evacuated to dryness (gals)	11.00

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1323. Purge began at 1326. Purged well for a total of 1 minute. Purged well dry. Purge ended at 1327. Water was a little murky. Left site at 1330. Arrived on site at 0851. Depth to water was 77.95. Samples bailed and collected at 0855. Left site at 0857.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_06052019
Purge Date & Time	6/5/2019 7:54
Sample Date & Time	6/5/2019 7:55

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	31.39
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-39

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.25

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:54		3434	6.63	14.23	430	0	

Volume of water purged ()	

Final Depth to Water (feet)	89.34

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0750. Samples collected at 0755. Water was clear. Left site at 0758.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-16
Field Sample ID	TW4-16_06192019
Purge Date & Time	6/18/2019 7:25
Sample Date & Time	6/19/2019 6:25

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	49.48
Calculated Casing Volumes Purge Duration (min)	8.99
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	14
Previous Well Sampled	TW4-18

Well Depth (ft)	147.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	71.82

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 7:33	88.00	3641	6.42	14.83	528	13.0	
6/18/2019 7:34	99.00	3618	6.42	14.85	510	14.0	
6/18/2019 7:35	110.00	3562	6.43	14.85	495	15.0	
6/18/2019 7:36	121.00	3690	6.43	14.86	474	15.1	

Volume of water purged (gals)	121.00

Final Depth to Water (feet)	140.54

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	11.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0722. Purge began at 0725. Purged well for a total of 11 minutes. Purge ended at 0736. Water was mostly clear. Left site at 0739. Arrived on site at 0621. Depth to water was 71.88. Samples bailed and collected at 0625. Left site at 0627.

Signature of Field Technician

Jarrett Hollenhorst

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_06182019
Purge Date & Time	6/18/2019 6:20
Sample Date & Time	6/18/2019 11:30

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	32.84
Calculated Casing Volumes Purge Duration (min)	302.72
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-60

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.30

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 11:27	66.61	3791	6.36	15.38	430	0	
6/18/2019 11:28	66.83	3774	6.37	15.19	395	5.0	
6/18/2019 11:29	67.05	3757	6.37	15.10	379	7.0	
6/18/2019 11:30	67.27	3741	6.36	15.09	362	7.3	

Volume of water purged (gals)	67.27

Final Depth to Water (feet)	85.40

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	310.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0615. Purge began at 0620. Purged well for a total of 310 minutes. Purge ended and samples collected at 1130. Water was a little murky. Left site at 1137.

Signature of Field Technician

Tanner Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-18
Field Sample ID	TW4-18_06192019
Purge Date & Time	6/18/2019 6:49
Sample Date & Time	6/19/2019 6:10

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	43.24
Calculated Casing Volumes Purge Duration (min)	7.86
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-18R

Well Depth (ft)	136.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.68

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 6:55	66.00	1942	6.21	15.48	562	14.6	
6/18/2019 6:56	77.00	1926	6.24	15.49	561	13.4	
6/18/2019 6:57	88.00	1879	6.22	15.50	560	13.3	
6/18/2019 6:58	99.00	1825	6.24	15.50	559	13.0	

Volume of water purged (gals)	99.00

Final Depth to Water (feet)	71.03

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	9.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0645. Purge began at 0649. Purged well for a total of 9 minutes. Purge ended at 0658. Water was clear. Left site at 0701. Arrived on site at 0607. Depth to water was 70.73. Samples bailed and collected at 0610. Left site at 0615.

Signature of Field Technician

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-18R
Field Sample ID	TW4-18R_06182019
Purge Date & Time	
Sample Date & Time	6/18/2019 6:20

Sampling Program	
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 6:19	130.00	1.9	5.65	20.64	613	0	

Volume of water purged ()	

Final Depth to Water (feet)	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

Signature of Field Technician

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-19
Field Sample ID	TW4-19_06052019
Purge Date & Time	6/5/2019 9:29
Sample Date & Time	6/5/2019 9:30

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	33.92
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	17
Previous Well Sampled	TW4-40

Well Depth (ft)	126.86
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.90

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 9:29		2775	6.56	15.37	467	0	

Volume of water purged ()	

Final Depth to Water (feet)	77.22

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0925. Samples collected at 0930. Water was clear. Left site at 0933.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-20
Field Sample ID	TW4-20_06052019
Purge Date & Time	6/5/2019 7:37
Sample Date & Time	6/5/2019 7:38

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	21.20
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-37
Well Depth (ft)	105.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.43

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:37		4054	6.23	15.45	458	0	

Volume of water purged ()	
Final Depth to Water (feet)	76.21

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	6.5
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0733. Samples collected at 0738. Water was clear. Left site at 0740.

Signature of Field Technician

Tanner Holliday

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-21
Field Sample ID	TW4-21_06052019
Purge Date & Time	6/5/2019 6:54
Sample Date & Time	6/5/2019 6:55

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	29.61
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	12
Previous Well Sampled	N/A

Well Depth (ft)	118.80
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.45

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 6:54		4060	6.77	16.17	556	0	

Volume of water purged ()	

Final Depth to Water (feet)	80.52

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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	17.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0648. Samples collected at 0655. Water was clear. Left site at 0657.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-22
Field Sample ID	TW4-22_06052019
Purge Date & Time	6/5/2019 7:22
Sample Date & Time	6/5/2019 7:23

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	26.55
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-24

Well Depth (ft)	114.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.04

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:22		5956	6.79	14.94	432	0	

Volume of water purged ()	

Final Depth to Water (feet)	108.97

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0719. Samples collected at 0723. Water was clear. Left site at 0725.

Signature of Field Technician

Jannere Hallsey

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-23
Field Sample ID	TW4-23_06132019
Purge Date & Time	6/12/2019 12:22
Sample Date & Time	6/13/2019 8:31

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.14
Calculated Casing Volumes Purge Duration (min)	5.11
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-35

Well Depth (ft)	116.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.30

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 12:28	66.00	3529	6.59	14.78	338	72.0	
6/12/2019 12:29	77.00	3528	6.59	14.78	341	70.0	
6/12/2019 12:30	88.00	3528	6.59	14.75	343	71.0	
6/12/2019 12:31	99.00	3526	6.59	14.75	344	71.0	

Volume of water purged (gals)	99.00

Final Depth to Water (feet)	81.23

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	9.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1219. Purge began at 1222. Purged well for a total of 9 minutes. Water had an orange coloration but was clearing as purge went on. Purge ended at 1231. Left site at 1234. Arrived on site at 0828. Depth to water was 73.30. Samples bailed and collected at 0831. Left site at 0833.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-24
Field Sample ID	TW4-24_06052019
Purge Date & Time	6/5/2019 7:14
Sample Date & Time	6/5/2019 7:15

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	26.12
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-25

Well Depth (ft)	114.80
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.80

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:14		8634	6.55	14.79	425	1.1	

Volume of water purged ()	

Final Depth to Water (feet)	80.11

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	17.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0710. Samples collected at 0715. Water water clear with a bunch of tiny little bubbles surfacing. Left site at 0717.

Signature of Field Technician

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-25
Field Sample ID	TW4-25_06052019
Purge Date & Time	6/5/2019 7:04
Sample Date & Time	6/5/2019 7:05

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	44.36
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	12
Previous Well Sampled	TW4-21

Well Depth (ft)	136.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.76

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:04		2511	6.84	15.43	486	0	

Volume of water purged ()	

Final Depth to Water (feet)	78.21

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.50
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0659. Samples collected at 0705. Water was clear. Left site at 0707.

Signature of Field Technician

Jarrer Hallows

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-26
Field Sample ID	TW4-26_06192019
Purge Date & Time	6/18/2019 11:48
Sample Date & Time	6/19/2019 7:33

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.23
Calculated Casing Volumes Purge Duration (min)	2.04
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	23
Previous Well Sampled	TW4-10

Well Depth (ft)	87.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.50

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 11:49	11.00	4703	6.65	16.25	478	0	
6/19/2019 7:32		4648	6.71	14.72			Before
6/19/2019 7:34		4653	6.72	14.74			After

Volume of water purged (gals)	11.00

Final Depth to Water (feet)	85.68

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.00
Number of casing Volumes	0.97
Volume, if well evacuated to dryness (gals)	11.00

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1144. Purge began at 1148. Purged well for a total of 1 minute. Purged well dry. Purge ended at 1149. Water was clear. Left site at 1153. Arrived on site at 0729. Depth to water was 70.77. Samples bailed and collected at 0733. Left site at 0735.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-27
Field Sample ID	TW4-27_06132019
Purge Date & Time	6/12/2019 13:57
Sample Date & Time	6/13/2019 9:06

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.00
Calculated Casing Volumes Purge Duration (min)	2.00
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-14

Well Depth (ft)	95.75
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	78.90

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 13:58	11.00	5180	6.31	16.40	540	12.0	
6/13/2019 9:05		5277	6.41	16.85			Before
6/13/2019 9:07		5289	6.42	16.89			After

Volume of water purged (gals)	11.00

Final Depth to Water (feet)	93.04

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.00
Number of casing Volumes	1.00
Volume, if well evacuated to dryness (gals)	11.00

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1353. Purge began at 1357. Purged well for a total of 1 minute. Purged well dry. Purge ended at 1358. Water was mostly clear. Left site at 1401. Arrived on site at 0903. Depth to water was 79.22. Samples bailed and collected at 0906. Left site at 0908.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-28
Field Sample ID	TW4-28_06132019
Purge Date & Time	6/12/2019 7:17
Sample Date & Time	6/13/2019 7:05

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	40.36
Calculated Casing Volumes Purge Duration (min)	7.33
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	15
Previous Well Sampled	TW4-03
Well Depth (ft)	108.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	46.66

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 7:21	49.50	1530	6.63	15.03	570	20.4	
6/13/2019 7:04		1516	6.79	14.48			Before
6/13/2019 7:06		1519	6.80	14.45			After

Volume of water purged (gals)	49.50
Final Depth to Water (feet)	105.32

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	4.50
Number of casing Volumes	1.22
Volume, if well evacuated to dryness (gals)	49.50

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0713. Purge began at 0717. Purged well for a total of 4 minutes and 30 seconds. Purged well dry. Purge ended at 0721. Water was mostly clear. Left site at 0724. Arrived on site at 0700. Depth to water was 46.65. Samples bailed and collected at 0705. Left site at 0708.

Signature of Field Technician

Jaimee Hollenbeck

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-29
Field Sample ID	TW4-29_06192019
Purge Date & Time	6/18/2019 9:38
Sample Date & Time	6/19/2019 7:01

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.77
Calculated Casing Volumes Purge Duration (min)	2.14
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	20
Previous Well Sampled	TW4-08

Well Depth (ft)	94.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.45

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 9:39	11.00	4061	6.60	15.80	539	6.4	
6/19/2019 7:00		4071	6.80	14.63			Before
6/19/2019 7:02		4065	6.79	14.65			After

Volume of water purged (gals)	11.00

Final Depth to Water (feet)	92.39

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.00
Number of casing Volumes	0.93
Volume, if well evacuated to dryness (gals)	11.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0935. Purge began at 0938. Purged well for a total of 1 minute. Purged well dry. Purge ended at 0939. Water was clear. Left site at 0942. Arrived on site at 0658. Depth to water was 76.45. Samples bailed and collected at 0701. Left site at 0704.

Signature of Field Technician

Tanner Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-30
Field Sample ID	TW4-30_06132019
Purge Date & Time	6/12/2019 15:21
Sample Date & Time	6/13/2019 9:45

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.10
Calculated Casing Volumes Purge Duration (min)	2.20
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-06

Well Depth (ft)	93.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.94

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 15:22	16.50	4781	5.10	16.03	624	51.5	
6/13/2019 9:44		4392	5.68	16.25			Before
6/13/2019 9:46		4393	5.67	16.20			After

Volume of water purged (gals)	16.50

Final Depth to Water (feet)	91.17

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.50
Number of casing Volumes	1.36
Volume, if well evacuated to dryness (gals)	16.50

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Arrived on site at 1518. Purge began at 1521. Purged well for a total of 1 minute and 30 seconds. Purged well dry. Water was murky. Purge ended at 1523. Left site at 1526. Arrived on site at 0942. Depth to water was 75.00. Samples bailed and collected at 0945. Left site at 0948.

Signature of Field Technician

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-31
Field Sample ID	TW4-31_06132019
Purge Date & Time	6/12/2019 10:19
Sample Date & Time	6/13/2019 7:47

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	19.96
Calculated Casing Volumes Purge Duration (min)	3.63
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	TW4-36

Well Depth (ft)	107.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.90

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 10:21	22.00	4120	6.65	15.75	505	200.00	
6/13/2019 7:46		4168	6.82	15.10			Before
6/13/2019 7:48		4170	6.83	15.12			After

Volume of water purged (gals)	22.00

Final Depth to Water (feet)	105.45

Name of Certified Analytical Laboratory
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	2.00
Number of casing Volumes	1.10
Volume, if well evacuated to dryness (gals)	22.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1015. Purge began at 1019. Purged well for a total of 2 minutes. Purged well dry. Purge ended at 1021. Water was murky. Left site at 1024. Arrived on site at 0743. Depth to water was 76.83. Samples bailed and collected at 0747. Left site at 0749.

Signature of Field Technician

Jannece Hallsten

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-32
Field Sample ID	TW4-32_06132019
Purge Date & Time	6/12/2019 7:50
Sample Date & Time	6/13/2019 7:12

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	39.14
Calculated Casing Volumes Purge Duration (min)	7.11
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	16
Previous Well Sampled	TW4-28

Well Depth (ft)	114.64
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	54.70

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 7:57	77.00	6483	3.60	14.97	535	12.5	
6/12/2019 7:58	88.00	6492	3.56	14.96	534	7.5	
6/12/2019 7:59	99.00	6494	3.58	14.95	530	6.9	
6/12/2019 8:00	110.00	6535	3.59	14.94	528	7.0	

Volume of water purged (gals)	110.00

Final Depth to Water (feet)	105.41

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	10.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0746. Purge began at 0750. Purged well for a total of 10 minutes. Purge ended at 0800. Water was clear. Pump and wire had white salt like crystals on it when pulled from well. Left site at 0803. Arrived on site at 0709. Depth to water was 54.60. Samples bailed and collected at 0712. Left site at 0714.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-33
Field Sample ID	TW4-33_06192019
Purge Date & Time	6/18/2019 8:04
Sample Date & Time	6/19/2019 6:34

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	6.86
Calculated Casing Volumes Purge Duration (min)	1.24
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	15
Previous Well Sampled	TW4-16

Well Depth (ft)	86.23
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	75.72

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 8:05	7.33	4606	6.82	16.50	510	12.0	
6/19/2019 6:33		4275	6.79	15.08			Before
6/19/2019 6:35		4278	6.81	15.10			After

Volume of water purged (gals)	7.33

Final Depth to Water (feet)	84.51

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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	O.66
Number of casing Volumes	1.06
Volume, if well evacuated to dryness (gals)	7.33

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0800. Purge began at 0804. Purged well for a total of 40 seconds. Purged well dry. Purge ended at 0805. Water was mostly clear. Left site at 0808. Arrived on site at 0630. Depth to water was 75.85. Samples bailed and collected at 0634. Left site at 0636.

Signature of Field Technician

Tanner Holliday

White Mesa Mill

Field Data Worksheet For Groundwater

Location ID	TW4-34
Field Sample ID	TW4-34_06132019
Purge Date & Time	6/12/2019 10:46
Sample Date & Time	6/13/2019 7:58

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	13.75
Calculated Casing Volumes Purge Duration (min)	2.50
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	24
Previous Well Sampled	TW4-31
Well Depth (ft)	95.74
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.67

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 10:48	16.50	3690	6.62	15.75	466	25.9	
6/13/2019 7:57		3622	6.90	15.02			Before
6/13/2019 7:59		3625	6.90	15.03			After

Volume of water purged (gals)	16.50
Final Depth to Water (feet)	92.99

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.50
Number of casing Volumes	1.20
Volume, if well evacuated to dryness (gals)	16.50

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1043. Purge began at 1046. Purged well for a total of 1 minute and 30 seconds. Purged well dry. Purge ended at 1048. Water was a little murky. Left site at 1051. Arrived on site at 0754. Depth to water was 74.61. Samples bailed and collected at 0758. Left site at 0800.

Signature of Field Technician

Jannece Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-35
Field Sample ID	TW4-35_06132019
Purge Date & Time	6/12/2019 11:53
Sample Date & Time	6/13/2019 8:07

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	7.67
Calculated Casing Volumes Purge Duration (min)	1.39
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-34

Well Depth (ft)	86.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.75

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 11:54	8.25	4457	6.33	17.65	479	21.0	
6/13/2019 8:06		4358	6.51	15.16			Before
6/13/2019 8:08		4359	6.49	15.20			After

Volume of water purged (gals)	8.25

Final Depth to Water (feet)	84.23

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	.75
Number of casing Volumes	1.07
Volume, if well evacuated to dryness (gals)	8.25

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1150. Purge began at 1153. Purged well for a total of 45 seconds. Purged well dry. Water was a little murky. Purge ended at 1154. Left site at 1157. Arrived on site at 0803. Depth to water was 74.66. Samples bailed and collected at 0807. Left site at 0809.

Signature of Field Technician

Janae Hollis

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-36
Field Sample ID	TW4-36_06132019
Purge Date & Time	6/12/2019 9:32
Sample Date & Time	6/13/2019 7:36

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	27.60
Calculated Casing Volumes Purge Duration (min)	5.01
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	TW4-13

Well Depth (ft)	99.41
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	57.14

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 9:35	33.00	2491	6.70	15.70	268	142.0	
6/13/2019 7:35		2415	6.86	14.65			Before
6/13/2019 7:37		2425	6.87	14.67			After

Volume of water purged (gals)	33.00

Final Depth to Water (feet)	97.02

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	3.00
Number of casing Volumes	1.19
Volume, if well evacuated to dryness (gals)	33.00

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0929. Purge began at 0932. Purged well for a total of 3 minutes. Purged well dry. Purge ended at 0935. Water was murky. Left site at 0938. Arrived on site at 0732. Depth to water was 57.78. Samples bailed and collected at 0736. Left site at 0738.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-37
Field Sample ID	TW4-37_06052019
Purge Date & Time	6/5/2019 7:29
Sample Date & Time	6/5/2019 7:30

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	25.44
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-22
Well Depth (ft)	113.72
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.75

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:29		4558	6.33	15.29	454	0	

Volume of water purged ()	
Final Depth to Water (feet)	78.65

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0726. Samples collected at 0730. Water water clear. Left site at 0732.

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-38
Field Sample ID	TW4-38_06132019
Purge Date & Time	6/12/2019 12:55
Sample Date & Time	6/13/2019 8:41

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	36.72
Calculated Casing Volumes Purge Duration (min)	6.67
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	TW4-23
Well Depth (ft)	113.92
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	57.68

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2019 12:59	44.00	1854	6.95	14.87	496	31.8	
6/12/2019 13:00	55.00	1755	6.88	14.90	495	32.0	
6/12/2019 13:01	66.00	1780	6.87	14.88	495	30.0	
6/12/2019 13:02	77.00	1789	6.87	14.89	495	31.0	

Volume of water purged (gals)	77.00
Final Depth to Water (feet)	108.55

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	7.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1252. Purge began at 1255. Purged well for a total of 7 minutes. Purge ended at 1302. Water was a little murky. Left site at 1305. Arrived on site at 0838. Depth to water was 57.75. Samples bailed and collected at 0841. Left site at 0845.

Signature of Field Technician

Tanner Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-39
Field Sample ID	TW4-39_06052019
Purge Date & Time	6/5/2019 7:46
Sample Date & Time	6/5/2019 7:47

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	28.64
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	13
Previous Well Sampled	TW4-20

Well Depth (ft)	120.74
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	76.87

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 7:46		2214	6.68	15.11	404	0	

Volume of water purged ()	

Final Depth to Water (feet)	84.29

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0743. Samples collected at 0747. Water was clear. Left site at 0750.

Signature of Field Technician

Tanner Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-40
Field Sample ID	TW4-40_06052019
Purge Date & Time	6/5/2019 8:59
Sample Date & Time	6/5/2019 9:00

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	10.31
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	16.
Previous Well Sampled	TW4-04
Well Depth (ft)	86.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	70.20

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:59		4146	6.42	14.85	465	0	

Volume of water purged ()	
Final Depth to Water (feet)	80.12

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	15.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0855. Samples collected at 0900. Water was clear. Left site at 0903.

Signature of Field Technician

Tanner Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-41
Field Sample ID	TW4-41_06052019
Purge Date & Time	6/5/2019 8:39
Sample Date & Time	6/5/2019 8:40

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	7.00
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Cloudy
External Ambient Temperature (C)	15
Previous Well Sampled	TW4-01

Well Depth (ft)	97.75
Well Casing Diameter (in)	6
Depth to Water Before Purging (ft)	87.02

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/5/2019 8:39		2769	6.84	15.36	402	0	

Volume of water purged ()	

Final Depth to Water (feet)	93.25

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	4.2
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0835. Samples collected at 0840. Water was clear. Left site at 0842.

Signature of Field Technician

Janree Hollenbaugh

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-42
Field Sample ID	TW4-42_06192019
Purge Date & Time	6/18/2019 12:20
Sample Date & Time	6/19/2019 7:44

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.70
Calculated Casing Volumes Purge Duration (min)	2.30
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	24
Previous Well Sampled	TW4-26
Well Depth (ft)	86.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	66.54

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/18/2019 12:21	14.66	3186	6.80	15.60	532	0	
6/19/2019 7:43		3504	7.01	14.90			Before
6/19/2019 7:45		3510	7.02	14.95			After

Volume of water purged (gals)	14.66
Final Depth to Water (feet)	83.97

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.33
Number of casing Volumes	1.15
Volume, if well evacuated to dryness (gals)	14.66

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1216. Purge began at 1220. Purged well for a total of 1 minute and 20 seconds. Purged well dry. Purge ended at 1221. Water was clear. Left site at 1224. Arrived on site at 0740. Depth to water was 66.57. Samples bailed and collected at 0744. Left site at 0746.

Signature of Field Technician

Jaime Holliday

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-60
Field Sample ID	TW4-60_06132019
Purge Date & Time	6/13/2019 10:06
Sample Date & Time	6/13/2019 10:10

Sampling Program	Chloroform Monitoring
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-30

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2019 10:09		1.7	7.35	21.90	490	0	

Volume of water purged ()	

Final Depth to Water (feet)	

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

DI sample collected in lab at 1010. Left lab at 1015.

Signature of Field Technician

Tanner Hollins

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-65
Field Sample ID	TW4-65_06132019
Purge Date & Time	
Sample Date & Time	6/13/2019 6:45

Sampling Program	
Sampling Event	2019 Q2 Chloroform

Sampler	TH/DL

Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After

Volume of water purged ()	

Final Depth to Water (feet)	

Name of Certified Analytical Laboratory
AWSL

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Duplicate of TW4-03

Signature of Field Technician

Groundwater Discharge Permit
Groundwater Monitoring Quality Assurance Plan

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-70
Field Sample ID	TW4-70_06132019
Purge Date & Time	
Sample Date & Time	6/13/2019 8:41

Sampling Program	
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	
Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After

Volume of water purged ()	
Final Depth to Water (feet)	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Duplicate of TW4-38

Signature of Field Technician

White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-75
Field Sample ID	TW4-75_06192019
Purge Date & Time	
Sample Date & Time	6/19/2019 6:10

Sampling Program	
Sampling Event	2019 Q2 Chloroform
Sampler	TH/DL

Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	
Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After

Volume of water purged ()	
Final Depth to Water (feet)	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N

Comments:

Duplicate of TW4-18

Signature of Field Technician

Jannece Holladay

Tab C

Weekly and Monthly Depth to Water Data

Weekly Inspection Form

Date 4-3-19 **Name** Deen Glyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1243	MW-4	80.73	Flow 3.8	Yes No
			Meter 2099458.88	Yes No
1216	MW-26	86.72	Flow 10.2	Yes No
			Meter 367831.7	Yes No
1405	TW4-19	73.48	Flow 18.0	Yes No
			Meter 1704669.8	Yes No
1204	TW4-20	72.18	Flow 7.0	Yes No
			Meter 290733.80	Yes No
1308	TW4-4	87.89	Flow 16.4	Yes No
			Meter 635900.2	Yes No
1031	TWN-2	48.58	Flow 18.0	Yes No
			Meter 1133184.6	Yes No
1152	TW4-22	73.30	Flow 18.0	Yes No
			Meter 595283.4	Yes No
1039	TW4-24	66.74	Flow 16.0	Yes No
			Meter 1023028.03	Yes No
1022	TW4-25	72.49	Flow 10.2	Yes No
			Meter 90789.45	Yes No
1254	TW4-1	103.61	Flow 14.6	Yes No
			Meter 284313.0	Yes No
1236	TW4-2	78.21	Flow 18.0	Yes No
			Meter 322437.6	Yes No
		90.14		
1224	TW4-11	90.14	Flow 16.0	Yes No
			Meter 595267	Yes No
1013	TW4-21	75.08	Flow 17.8	Yes No
			Meter 1740637.90	Yes No
1159	TW4-37	74.13	Flow 18.0	Yes No
			Meter 1449451.2	Yes No
1210	TW4-39	69.17	Flow 18.0	Yes No
			Meter 463862.5	Yes No
1300	TW4-41	84.53	Flow 3.2	Yes No
			Meter 186027.93	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 4-8-19 **Name** Derek Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0930	MW-4	80.38	Flow 3.5	Yes No
			Meter 2104890.38	Yes No
0901	MW-26	89.64	Flow 10.8	Yes No
			Meter 360040.3	Yes No
1042	TW4-19	74.77	Flow 18.0	Yes No
			Meter 1710125.1	Yes No
0942	TW4-20	72.55	Flow 7.6	Yes No
			Meter 291457.92	Yes No
0955	TW4-4	86.78	Flow 16.8	Yes No
			Meter 63678.37	Yes No
0809	TWN-2	46.18	Flow 18.2	Yes No
			Meter 1135513.4	Yes No
0824	TW4-22	81.03	Flow 18.0	Yes No
			Meter 595681.4	Yes No
0817	TW4-24	78.53	Flow 16.8	Yes No
			Meter 1026449.18	Yes No
0756	TW4-25	71.94	Flow 12.0	Yes No
			Meter 95688.40	Yes No
0936	TW4-1	80.40	Flow 11.6	Yes No
			Meter 284817.2	Yes No
0922	TW4-2	105.36	Flow 17.4	Yes No
			Meter 323272.1	Yes No
0910	TW4-11	89.21	Flow 16.8	Yes No
			Meter 59744.4	Yes No
0750	TW4-21	72.29	Flow 18.0	Yes No
			Meter 1746694.11	Yes No
0832	TW4-37	76.34	Flow 18.0	Yes No
			Meter 1452833.7	Yes No
0853	TW4-39	73.64	Flow 18.0	Yes No
			Meter 46582.48	Yes No
0944	TW4-41	87.15	Flow 2.6	Yes No
			Meter 187427.52	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 4-15-19 **Name** Drew Cobyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1031	MW-4	86.52	Flow 3.8	Yes No
			Meter 2112455.72	Yes No
1012	MW-26	76.08	Flow 10.4	Yes No
			Meter 370835.2	Yes No
1252	TW4-19	88.53	Flow 17.8	Yes No
			Meter 1718259.2	Yes No
0953	TW4-20	76.69	Flow 7.2	Yes No
			Meter 292596.26	Yes No
1049	TW4-4	89.28	Flow 16.8	Yes No
			Meter 637853.6	Yes No
0924	TWN-2	63.34	Flow 18.0	Yes No
			Meter 1139018.9	Yes No
0939	TW4-22	74.64	Flow 18.0	Yes No
			Meter 539444.9	Yes No
0932	TW4-24	66.21	Flow 15.2	Yes No
			Meter 1030695.83	Yes No
0917	TW4-25	76.66	Flow 10.4	Yes No
			Meter 102719.44	Yes No
1038	TW4-1	89.03	Flow 16.6	Yes No
			Meter 285561.2	Yes No
1025	TW4-2	114.86	Flow 16.6	Yes No
			Meter 324391.1	Yes No
1020	TW4-11	91.21	Flow 16.0	Yes No
			Meter 59928.8	Yes No
0910	TW4-21	77.34	Flow 17.4	Yes No
			Meter 1755156.63	Yes No
0947	TW4-37	72.91	Flow 18.0	Yes No
			Meter 1458294.9	Yes No
1002	TW4-39	73.18	Flow ~~468992.8~~ 18.8	Yes No
			Meter 468992.8	Yes No
1043	TW4-41	88.06	Flow 4.4	Yes No
			Meter 189546.98	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 4-22-19 **Name** Deen C Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1021	MW-4	80.42	Flow 4.0	Yes No
			Meter 2119904.77	Yes No
1000	MW-26	81.04	Flow 10.4	Yes No
			Meter 372739.1	Yes No
1201	TW4-19	76.11	Flow 18.0	Yes No
			Meter 1726102.0	Yes No
0943	TW4-20	75.89	Flow 7.2	Yes No
			Meter 2935428.0	Yes No
1050	TW4-4	78.33	Flow 16.6	Yes No
			Meter 639005.2	Yes No
0909	TWN-2	64.6	Flow 17.2	Yes No
			Meter 1142457.5	Yes No
0927	TW4-22	73.36	Flow 18.0	Yes No
			Meter 600204.2	Yes No
0919	TW4-24	74.53	Flow 14.4	Yes No
			Meter 1034899.33	Yes No
0853	TW4-25	71.68	Flow 12.0	Yes No
			Meter 109767.79	Yes No
1030	TW4-1	78.48	Flow 16.6	Yes No
			Meter 286309.5	Yes No
1014	TW4-2	89.86	Flow 18.0	Yes No
			Meter 325482.0	Yes No
1006	TW4-11	91.84	Flow 16.0	Yes No
			Meter 60685.3	Yes No
0841	TW4-21	77.08	Flow 17.0	Yes No
			Meter 1763605.20	Yes No
0935	TW4-37	81.14	Flow 18.0	Yes No
			Meter 1463475.2	Yes No
0950	TW4-39	76.21	Flow 18.0	Yes No
			Meter 471902.6	Yes No
1040	TW4-41	84.91	Flow 3.6	Yes No
			Meter 191678.68	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 4-29 **Name** Deen G Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0744	MW-4	81.46	Flow 3.8	Yes No
			Meter 2126765.65	Yes No
0724	MW-26	75.55	Flow 11.8	Yes No
			Meter 374312.4	Yes No
0844	TW4-19	74.25	Flow 18.0	Yes No
			Meter 1733924.4	Yes No
0710	TW4-20	71.45	Flow 7.6	Yes No
			Meter 294572.33	Yes No
0804	TW4-4	92.49	Flow 17.0	Yes No
			Meter 640032.8	Yes No
0646	TWN-2	52.28	Flow 18.0	Yes No
			Meter 1145818.0	Yes No
0659	TW4-22	73.53	Flow 18.0	Yes No
			Meter 602431.1	Yes No
0653	TW4-24	73.61	Flow 16.5	Yes No
			Meter 1038911.49	Yes No
0637	TW4-25	84.06	Flow 10.4	Yes No
			Meter 116784.85	Yes No
0750	TW4-1	83.14	Flow 14.4	Yes No
			Meter 287000.4	Yes No
0737	TW4-2	111.75	Flow 16.4	Yes No
			Meter 326495.8	Yes No
0731	TW4-11	90.41	Flow 16.2	Yes No
			Meter 60256.3	Yes No
0629	TW4-21	76.81	Flow 17.6	Yes No
			Meter 1771902.43	Yes No
0704	TW4-37	72.34	Flow 18.0	Yes No
			Meter 1468431.4	Yes No
0716	TW4-39	77.73	Flow 18.0	Yes No
			Meter 474878.9	Yes No
0756	TW4-41	87.17	Flow 4.2	Yes No
			Meter 193688.82	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 4-29-19 **Name** Tanner Holliday, Dean Lyman

490829

Time	Well	Depth*	Time	Well	Depth*
0744	MW-4	81.46	0927	TWN-1	66.41
0750	TW4-1	83.14	0646	TWN-2	52.28
0737	TW4-2	111.75	0948	TWN-3	42.16
0939	TW4-3	61.68	0945	TWN-4	59.36
0804	TW4-4	92.49	0936	TWN-7	82.00
0939	TW4-5	69.28	0942	TWN-18	61.39
0953	TW4-6	75.88	0932	MW-27	56.10
0950	TW4-7	81.12	1000	MW-30	74.66
0946	TW4-8	84.44	1012	MW-31	68.60
0936	TW4-9	67.24			
0930	TW4-10	66.63			
0731	TW4-11	90.41			
1111	TW4-12	53.39			
1108	TW4-13	55.01	1115	TW4-28	46.41
1109	TW4-14	77.91	1100	TW4-29	76.32
0724	TW4-15	75.55	1052	TW4-30	74.92
0953	TW4-16	71.41	1049	TW4-31	76.83
1006	TW4-17	79.95	1117	TW4-32	54.51
0924	TW4-18	70.15	1043	TW4-33	75.56
0844	TW4-19	74.25	1057	TW4-34	74.50
0710	TW4-20	71.45	1054	TW4-35	74.65
0629	TW4-21	76.81	1106	TW4-36	57.00
0659	TW4-22	73.53	0704	TW4-37	72.34
1022	TW4-23	72.89	0942	TW4-38	57.18
0653	TW4-24	73.61	0716	TW4-39	77.73
0637	TW4-25	84.06	0959	TW4-40	67.90
0956	TW4-26	69.91	0756	TW4-41	87.17
1046	TW4-27	78.83	1123	TW4-42	66.40

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 5-6-19 **Name** Dean C Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0900	MW-4	81.63	Flow 3.6	Yes No
			Meter 2134272.61	Yes No
0830	MW-26	73.90	Flow 10.8	Yes No
			Meter 376593.6	Yes No
1040	TW4-19	77.04	Flow 18.0	Yes No
			Meter 1742034.8	Yes No
0808	TW4-20	74.01	Flow 6.8	Yes No
			Meter 295645.31	Yes No
0925	TW4-4	96.54	Flow 16.9	Yes No
			Meter 641285.5	Yes No
0738	TWN-2	47.91	Flow 18.0	Yes No
			Meter 1149372.5	Yes No
0757	TW4-22	73.82	Flow 18.0	Yes No
			Meter 603512.2	Yes No
0749	TW4-24	75.21	Flow 15.8	Yes No
			Meter 1043110.48	Yes No
0729	TW4-25	72.71	Flow 10.8	Yes No
			Meter 123788.44	Yes No
0909	TW4-1	78.12	Flow 13.6	Yes No
			Meter 287768.1	Yes No
0854	TW4-2	101.52	Flow 17.4	Yes No
			Meter 327510.8	Yes No
0839	TW4-11	91.50	Flow 16.0	Yes No
			Meter 60428.6	Yes No
0715	TW4-21	71.15	Flow 17.0	Yes No
			Meter 1780349.33	Yes No
0801	TW4-37	68.14	Flow 16.4	Yes No
			Meter 1473752.2	Yes No
0820	TW4-39	79.33	Flow 18.0	Yes No
			Meter 476589.5	Yes No
0915	TW4-41	85.88	Flow 3.4	Yes No
			Meter 1957128.7	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 5-13-19 **Name** Dean Gilyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0954	MW-4	89.44	Flow 4.2	Yes No
			Meter 2141827.13	Yes No
0926	MW-26	82.59	Flow 10.2	Yes No
			Meter 378424.0	Yes No
1145	TW4-19	77.14	Flow 18.0	Yes No
			Meter 1750091.4	Yes No
0909	TW4-20	72.52	Flow 7.2	Yes No
			Meter 2966718.79	Yes No
1027	TW4-4	98.35	Flow 16.6	Yes No
			Meter 642338.6	Yes No
0805	TWN-2	47.04	Flow 18.0	Yes No
			Meter 1152705.9	Yes No
0841	TW4-22	75.29	Flow 18.0	Yes No
			Meter 605673.6	Yes No
0833	TW4-24	94.13	Flow 16.8	Yes No
			Meter 1047674.05	Yes No
0754	TW4-25	87.15	Flow 10.8	Yes No
			Meter 130777.36	Yes No
1013	TW4-1	86.24	Flow 15.8	Yes No
			Meter 2985824.4	Yes No
0940	TW4-2	117.33	Flow 14.2	Yes No
			Meter 3286419.6	Yes No
0934	TW4-11	90.01	Flow 16.4	Yes No
			Meter 608834.7	Yes No
0746	TW4-21	78.38	Flow 17.0	Yes No
			Meter 1788876.47	Yes No
0847	TW4-37	73.01	Flow 18.0	Yes No
			Meter 1478716.3	Yes No
0916	TW4-39	89.24	Flow 17.8	Yes No
			Meter 479240.4	Yes No
1018	TW4-41	80.71	Flow 4.8	Yes No
			Meter 197772.87	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.

1035 TW4-40 83.26 Flow 10.8 (YES)
Meter 1340172 (YES)

Monthly Depth Check Form

Date 5-13-19 **Name** Dean Calamus, Tanner Halliday

Time	Well	Depth*	Time	Well	Depth*
0954	MW-4	89.44	0646	TWN-1	66.80
1013	TW4-1	86.24	0805	TWN-2	47.04
0940	TW4-2	117.33	0735	TWN-3	42.55
1443	TW4-3	61.89	0727	TWN-4	59.82
1027	TW4-4	98.35	0742	TWN-7	82.11
1455	TW4-5	69.43	0723	TWN-18	61.74
1430	TW4-6	76.05	0653	MW-27	56.53
1434	TW4-7	81.53	1518	MW-30	74.94
1438	TW4-8	84.52	1512	MW-31	68.73
1452	TW4-9	67.37			
1500	TW4-10	66.84			
0934	TW4-11	90.01			
1351	TW4-12	53.40			
1346	TW4-13	54.97	1355	TW4-28	46.37
1337	TW4-14	77.81	1393	TW4-29	76.28
0926	TW4-15	82.59	1302	TW4-30	74.87
1504	TW4-16	71.67	1258	TW4-31	76.75
1507	TW4-17	80.08	1359	TW4-32	54.46
0707	TW4-18	70.55	1245	TW4-33	75.61
1145	TW4-19	77.14	1314	TW4-34	74.51
0909	TW4-20	72.52	1306	TW4-35	74.61
0746	TW4-21	73.38	1342	TW4-36	56.94
0841	TW4-22	75.29	0847	TW4-37	73.01
1426	TW4-23	73.04	1447	TW4-38	57.38
0933	TW4-24	84.13	0916	TW4-39	89.24
0754	TW4-25	87.15	1035	TW4-40	83.26
1417	TW4-26	70.11	1018	TW4-41	80.71
1249	TW4-27	78.78	1240	TW4-42	66.14

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 5-20-19 **Name** Deen Gorman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0841	MW-4	78.44	Flow 3.4	Yes No
			Meter 2149894.73	Yes No
0816	MW-26	72.19	Flow 10.8	Yes No
			Meter 380393.7	Yes No
0954	TW4-19	73.47	Flow 14.6	Yes No
			Meter 1757536.2	Yes No
0803	TW4-20	74.67	Flow 6.4	Yes No
			Meter 297866.36	Yes No
0856	TW4-4	89.81	Flow 16.4	Yes No
			Meter 643442.7	Yes No
0732	TWN-2	53.21	Flow 18.0	Yes No
			Meter 1156149.8	Yes No
0750	TW4-22	72.91	Flow 18.0	Yes No
			Meter 607691.2	Yes No
0744	TW4-24	74.66	Flow 14.6	Yes No
			Meter 10515 95.45	Yes No
0723	TW4-25	75.54	Flow 12.6	Yes No
			Meter 137633.35	Yes No
0846	TW4-1	77.14	Flow 13.2	Yes No
			Meter 299262.0	Yes No
0834	TW4-2	102.69	Flow 17.6	Yes No
			Meter 329740.5	Yes No
0821	TW4-11	91.03	Flow 16.0	Yes No
			Meter 60752.3	Yes No
0614	TW4-21	79.13	Flow 17.2	Yes No
			Meter 1797206.41	Yes No
0759	TW4-37	79.07	Flow 17.6	Yes No
			Meter 1433819.2	Yes No
0809	TW4-39	69.84	Flow 18.0	Yes No
			Meter 482929.4	Yes No
0951	TW4-41	73.08	Flow 5.2	Yes No
			Meter 199654.68	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.

0907 TW4-40 70.71 9.6 2375333 YES YES

Weekly Inspection Form

Date 5-30-19 **Name** Dean Gotcher

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1401	MW-4	82.22	Flow 3.4	~~Yes~~ No
			Meter 2160268.93	~~Yes~~ No
1336	MW-26	77.14	Flow 10.4	~~Yes~~ No
			Meter 393182.1	~~Yes~~ No
1505	TW4-19	76.62	Flow 18.0	~~Yes~~ No
		76	Meter 1769403.9	~~Yes~~ No
1325	TW4-20	70.16	Flow 6.4	~~Yes~~ No
			Meter 299398.15	~~Yes~~ No
1429	TW4-4	78.88	Flow 16.5	(Yes) No
			Meter 645190.7	(Yes) No
1258	TWN-2	56.27	Flow 18.0	~~Yes~~ No
			Meter 1161140.1	~~Yes~~ No
1313	TW4-22	72.36	Flow 18.0	~~Yes~~ No
			Meter 610029.5	~~Yes~~ No
1304	TW4-24	79.03	Flow 14.6	~~Yes~~ No
			Meter 1057526.37	~~Yes~~ No
1251	TW4-25	71.93	Flow 11.6	~~Yes~~ No
			Meter 147891.98	~~Yes~~ No
1411	TW4-1	79.35	Flow 12.4	~~Yes~~ No
			Meter 290155.0	~~Yes~~ No
1354	TW4-2	112.33	Flow 16.4	~~Yes~~ No
			Meter 331471.6	~~Yes~~ No
1344	TW4-11	90.13	Flow 16.2	~~Yes~~ No
			Meter 6109017	~~Yes~~ No
1245	TW4-21	75.45	Flow 16.8	~~Yes~~ No
			Meter 1809552.11	~~Yes~~ No
1319	TW4-37	73.19	Flow 18.0	~~Yes~~ No
			Meter 1491266.6	~~Yes~~ No
1330	TW4-39	74.21	Flow 18.0	~~Yes~~ No
			Meter 486998.5	~~Yes~~ No
1420	TW4-41	81.04	Flow 4.0	~~Yes~~ No
			Meter 202672.76	~~Yes~~ No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

1435 TW4-40 70.53 15.0 38181.30 (YES) YES

Weekly Inspection Form

Date 6-3-18 **Name** Deen Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0923	MW-4	87.18	Flow 3.4	~~Yes~~ No
			Meter 2164225.22	~~Yes~~ No
0855	MW-26	97.83	Flow 11.6	~~Yes~~ No
			Meter 384142.3	~~Yes~~ No
1012	TW4-19	71.84	Flow 18.0	~~Yes~~ No
			Meter 1773883.9	~~Yes~~ No
0845	TW4-20	70.07	Flow 6.4	~~Yes~~ No
			Meter 299985.31	~~Yes~~ No
0940	TW4-4	95.31	Flow 16.4	~~Yes~~ No
			Meter 645795.5	~~Yes~~ No
0735	TWN-2	36.61	Flow 16.4	~~Yes~~ No
			Meter 1163038.4	~~Yes~~ No
0835	TW4-22	73.81	Flow 18.0	~~Yes~~ No
			Meter 611452.6	~~Yes~~ No
0830	TW4-24	71.23	Flow 17.2	~~Yes~~ No
			Meter 1059279.22	~~Yes~~ No
0728	TW4-25	67.83	Flow 11.6	~~Yes~~ No
			Meter 151217.89	~~Yes~~ No
0928	TW4-1	81.01	Flow 16.2	~~Yes~~ No
			Meter 290752.4	~~Yes~~ No
0918	TW4-2	106.20	Flow 17.4	~~Yes~~ No
			Meter 331850.9	~~Yes~~ No
0900	TW4-11	91.28	Flow 16.4	~~Yes~~ No
			Meter 61182.8	~~Yes~~ No
0720	TW4-21	72.71	Flow 17.6	~~Yes~~ No
			Meter 1814059.92	~~Yes~~ No
0840	TW4-37	73.44	Flow 18.0	~~Yes~~ No
			Meter 1494029.0	~~Yes~~ No
0850	TW4-39	~~93.83~~ 76.67	Flow 18.0	~~Yes~~ No
			Meter 487338.3	~~Yes~~ No
0934	TW4-41	86.56	Flow 4.2	~~Yes~~ No
			Meter 203628.56	~~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.

TW4-40 69.65 ~~18.0~~ 15.0 43509.77

Weekly Inspection Form

Date 6-10-19 **Name** Dean C Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0847	MW-4	86.31	Flow 3.8	Yes No
			Meter 2171691.28	Yes No
0818	MW-26	74.89	Flow 17.2	Yes No
			Meter 386179.4	Yes No
1011	TW4-19	75.19	Flow 18.0	Yes No
			Meter 1781794.8	Yes No
0758	TW4-20	74.97	Flow 6.6	Yes No
			Meter 300943.45	Yes No
0908	TW4-4	93.39	Flow 13.6	Yes No
			Meter 646847.7	Yes No
0728	TWN-2	56.81	Flow 18.0	Yes No
			Meter 1166455.7	Yes No
0746	TW4-22	74.76	Flow 18.0	Yes No
			Meter 613202.7	Yes No
0738	TW4-24	77.12	Flow 17.4	Yes No
			Meter 1064042.6	Yes No
0720	TW4-25	72.94	Flow 12.8	Yes No
			Meter 128449.87	Yes No
0853	TW4-1	103.55	Flow 14.4	Yes No
			Meter 291591.7	Yes No
0836	TW4-2	105.82	Flow 18.0	Yes No
			Meter 333053.9	Yes No
0829	TW4-11	90.07	Flow 15.8	Yes No
			Meter 61231.5	Yes No
0711	TW4-21	76.23	Flow 17.5	Yes No
			Meter 1822445.17	Yes No
0752	TW4-37	72.17	Flow 18.0	Yes No
			Meter 1499196.0	Yes No
0810	TW4-39	68.81	Flow 18.0	Yes No
			Meter 490178.0	Yes No
0918	TW4-40	70.19	Flow 17.8	Yes No
			Meter 53214.53	Yes No
0859	TW4-41	87.24	Flow 5.5	Yes No
			Meter 205422.63	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 6-17-19 **Name** Dean Gilmore

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0804	MW-4	82.13	Flow 3.6	Yes No
			Meter 2179032.54	Yes No
0744	MW-26	76.18	Flow 10.6	Yes No
			Meter 388018.4	Yes No
0910	TW4-19	72.42	Flow 18.0	Yes No
			Meter 1789423.6	Yes No
0730	TW4-20	73.21	Flow 8.5	Yes No
			Meter 302076.99	Yes No
0826	TW4-4	86.43	Flow 16.2	Yes No
			Meter 647078.5	Yes No
0655	TWN-2	50.03	Flow 18.0	Yes No
			Meter 1169948.0	Yes No
0716	TW4-22	73.38	Flow 18.0	Yes No
			Meter 615162.8	Yes No
0704	TW4-24	74.71	Flow 17.6	Yes No
			Meter 1050725.94	Yes No
0647	TW4-25	76.18	Flow 10.4	Yes No
			Meter 165325.88	Yes No
0812	TW4-1	85.48	Flow 12.4	Yes No
			Meter 292228.3	Yes No
0757	TW4-2	110.82	Flow 17.4	Yes No
			Meter 334153.2	Yes No
0750	TW4-11	89.66	Flow 16.6	Yes No
			Meter 61408.0	Yes No
0640	TW4-21	78.43	Flow 17.0	Yes No
			Meter 1830802.27	Yes No
0724	TW4-37	71.75	Flow 18.0	Yes No
			Meter 1504242.8	Yes No
0737	TW4-39	73.01	Flow 18.0	Yes No
			Meter 493868.0	Yes No
0835	TW4-40	71.55	Flow 18.0	Yes No
			Meter 62717.88	Yes No
0819	TW4-41	88.55	Flow 6.0	Yes No
			Meter 207313.80	Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 6-24-19 **Name** Dean G Lyman

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0908	MW-4	86.13	Flow 3.50	~~Yes~~ No
			Meter 21865/4.19	~~Yes~~ No
0840	MW-26	78.18	Flow 12.4	~~Yes~~ No
			Meter 300060.1	~~Yes~~ No
1055	TW4-19	73.40	Flow 17.8	~~Yes~~ No
			Meter 1797432.9	~~Yes~~ No
0821	TW4-20	74.31	Flow 6.2	~~Yes~~ No
			Meter 303020.28	~~Yes~~ No
0938	TW4-4	84.38	Flow 16.0	~~Yes~~ No
			Meter 649198.1	~~Yes~~ No
0755	TWN-2	57.63	Flow 18.0	~~Yes~~ No
			Meter 1173265.1	~~Yes~~ No
0808	TW4-22	88.35	Flow 17.8	~~Yes~~ No
			Meter 616942.0	~~Yes~~ No
0802	TW4-24	81.15	Flow 14.6	~~Yes~~ No
			Meter 1072206.53	~~Yes~~ No
0749	TW4-25	73.33	Flow 14.0	~~Yes~~ No
			Meter 172161.82	~~Yes~~ No
0920	TW4-1	78.68	Flow 14.2	~~Yes~~ No
			Meter 292265.4	~~Yes~~ No
0900	TW4-2	102.23	Flow 16.5	~~Yes~~ No
			Meter 335258.6	~~Yes~~ No
0854	TW4-11	90.00	Flow 15.8	~~Yes~~ No
			Meter 61565.5	~~Yes~~ No
0737	TW4-21	77.86	Flow 16.8	~~Yes~~ No
			Meter 1839284.84	~~Yes~~ No
0815	TW4-37	71.22	Flow 18.0	~~Yes~~ No
			Meter 1509419.1	~~Yes~~ No
0827	TW4-39	75.71	Flow 18.0	~~Yes~~ No
			Meter 496452.8	~~Yes~~ No
0948	TW4-40	69.89	Flow 18.0	~~Yes~~ No
			Meter 72109.52	~~Yes~~ No
0930	TW4-41	87.07	Flow 3.2	~~Yes~~ No
			Meter 209241.21	~~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

Tanner Holliday, Deen Lyman

Date: 6/24/2019

Date	Time	Well	Depth to Water (ft.)
6/24/2019	1404	MW-01	64.70
6/25/2019	807	MW-02	109.75
6/25/2019	1008	MW-03A	84.18
6/24/2019	1334	MW-05	108.18
6/24/2019	1325	MW-11	85.23
6/24/2019	1339	MW-12	107.78
6/24/2019	1450	MW-14	102.10
6/24/2019	1444	MW-15	105.48
6/24/2019	1512	MW-17	71.85
6/24/2019	1357	MW-18	73.25
6/24/2019	1319	MW-19	64.72
6/25/2019	954	MW-20	88.77
6/24/2019	1543	MW-22	66.46
6/24/2019	1345	MW-23	114.25
6/24/2019	1557	MW-24	110.98
6/24/2019	1317	MW-25	79.50
6/24/2019	840	MW-26	78.18
6/24/2019	1604	MW-27	56.15
6/24/2019	1550	MW-28	74.38
6/25/2019	749	MW-29	107.88
6/24/2019	935	MW-30	74.80
6/24/2019	923	MW-31	68.72
6/24/2019	918	MW-32	80.25
6/24/2019	1350	MW-33	DRY
6/24/2019	1433	MW-34	107.38
6/24/2019	1408	MW-35	112.16
6/24/2019	1355	MW-36	110.45
6/24/2019	1439	MW-37	107.11
6/24/2019	1551	MW-38	70.58
6/24/2019	1558	MW-39	65.41
6/24/2019	1504	MW-40	80.01

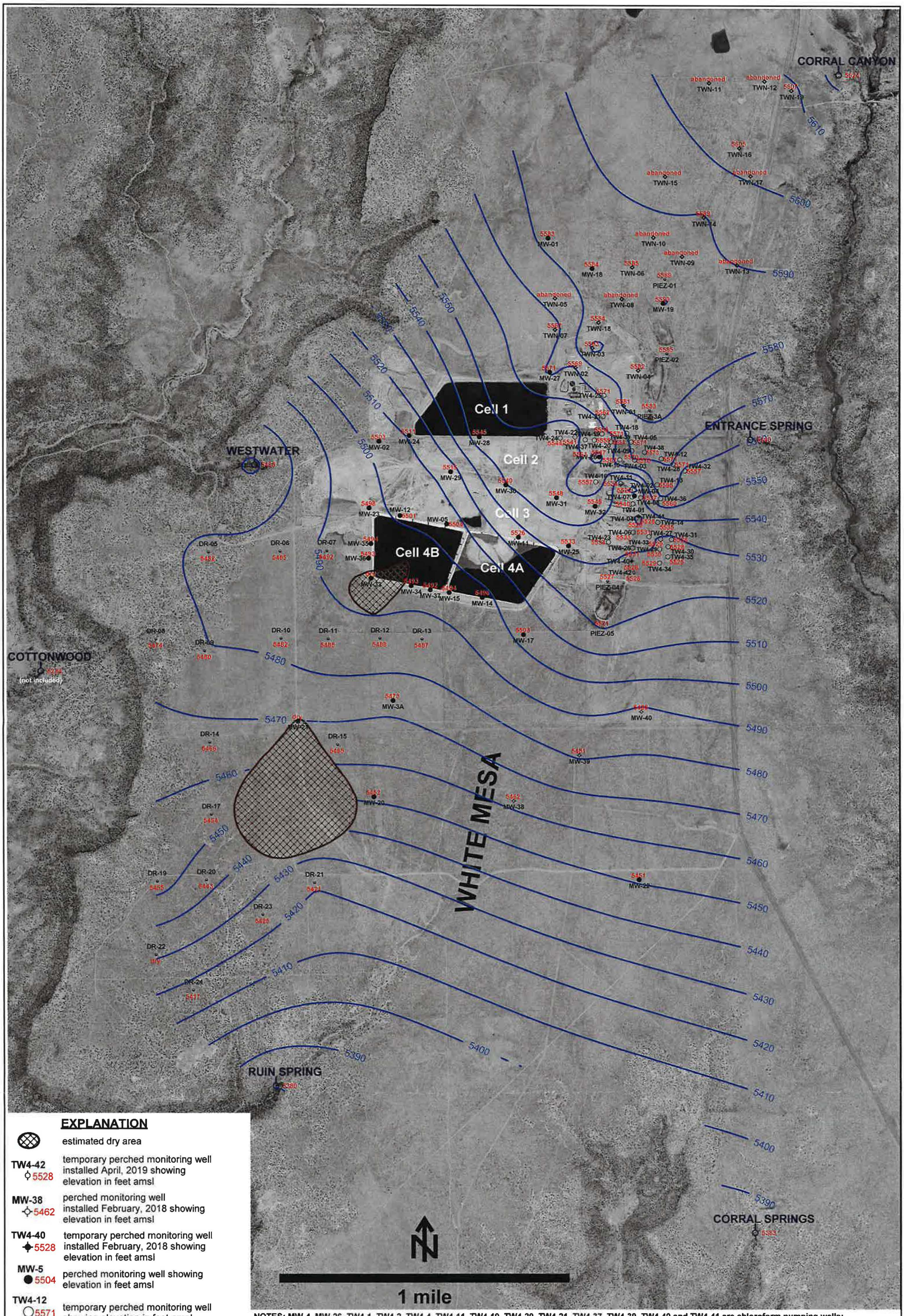
Date	Time	Well	Depth to Water (ft.)
6/24/2019	908	MW-04	86.13
6/24/2019	920	TW4-01	78.68
6/24/2019	906	TW4-02	102.23
6/24/2019	1256	TW4-03	61.95
6/24/2019	938	TW4-04	84.38
6/24/2019	1242	TW4-05	69.44
6/24/2019	1052	TW4-06	76.22
6/24/2019	1309	TW4-07	81.96
6/24/2019	1305	TW4-08	84.73
6/24/2019	1246	TW4-09	67.42
6/24/2019	1237	TW4-10	66.85
6/24/2019	854	TW4-11	90.00
6/24/2019	1034	TW4-12	53.45
6/24/2019	1030	TW4-13	54.95
6/24/2019	1023	TW4-14	77.73
6/24/2019	914	TW4-16	71.67
6/24/2019	1241	TW4-18	70.68
6/24/2019	1055	TW4-19	73.40
6/24/2019	821	TW4-20	74.31
6/24/2019	737	TW4-21	77.86
6/24/2019	808	TW4-22	88.35
6/24/2019	942	TW4-23	73.15
6/24/2019	802	TW4-24	81.15
6/24/2019	749	TW4-25	73.33
6/24/2019	948	TW4-26	70.48
6/24/2019	1002	TW4-27	78.74
6/24/2019	1037	TW4-28	46.40
6/24/2019	1020	TW4-29	76.27
6/24/2019	1009	TW4-30	74.80
6/24/2019	1006	TW4-31	76.64
6/24/2019	1040	TW4-32	54.43
6/24/2019	959	TW4-33	75.65
6/24/2019	1016	TW4-34	74.50
6/24/2019	1012	TW4-35	74.52
6/24/2019	1027	TW4-36	56.98
6/24/2019	815	TW4-37	71.22
6/24/2019	1249	TW4-38	57.46
6/24/2019	827	TW4-39	75.71
6/24/2019	948	TW4-40	69.89
6/24/2019	930	TW4-41	87.07
6/24/2019	954	TW4-42	66.42

Date	Time	Well	Depth to Water (ft.)
6/24/2019	1326	PIEZ-01	66.59
6/24/2019	1313	PIEZ-02	43.79
6/24/2019	1306	PIEZ-03A	54.86
6/25/2019	825	PIEZ-04	64.29
6/25/2019	829	PIEZ-05	63.67
6/24/2019	1235	TWN-01	66.91
6/24/2019	755	TWN-02	57.63
6/24/2019	1248	TWN-03	41.81
6/24/2019	1301	TWN-04	59.90
6/24/2019	1350	TWN-06	79.89
6/24/2019	1409	TWN-07	82.33
6/25/2019	846	TWN-14	60.13
6/24/2019	1337	TWN-16	47.74
6/24/2019	1253	TWN-18	61.76
6/25/2019	935	TWN-19	53.90
6/25/2019	1037	DR-05	83.18
6/25/2019	1034	DR-06	94.20
6/24/2019	1418	DR-07	91.86
6/25/2019	1053	DR-08	51.49
6/25/2019	1045	DR-09	86.61
6/25/2019	1023	DR-10	78.45
6/25/2019	1349	DR-11	98.08
6/24/2019	1524	DR-12	91.74
6/24/2019	1519	DR-13	69.77
6/25/2019	1236	DR-14	76.29
6/25/2019	1016	DR-15	92.92
6/25/2019	1228	DR-17	64.75
6/25/2019	1244	DR-19	63.21
6/25/2019	1250	DR-20	55.29
6/25/2019	1321	DR-21	100.83
6/25/2019	1307	DR-22	DRY
6/25/2019	1326	DR-23	70.48
6/25/2019	1302	DR-24	44.55

MW-26 = TW4-15

MW-32 = TW4-17

Comments:



EXPLANATION

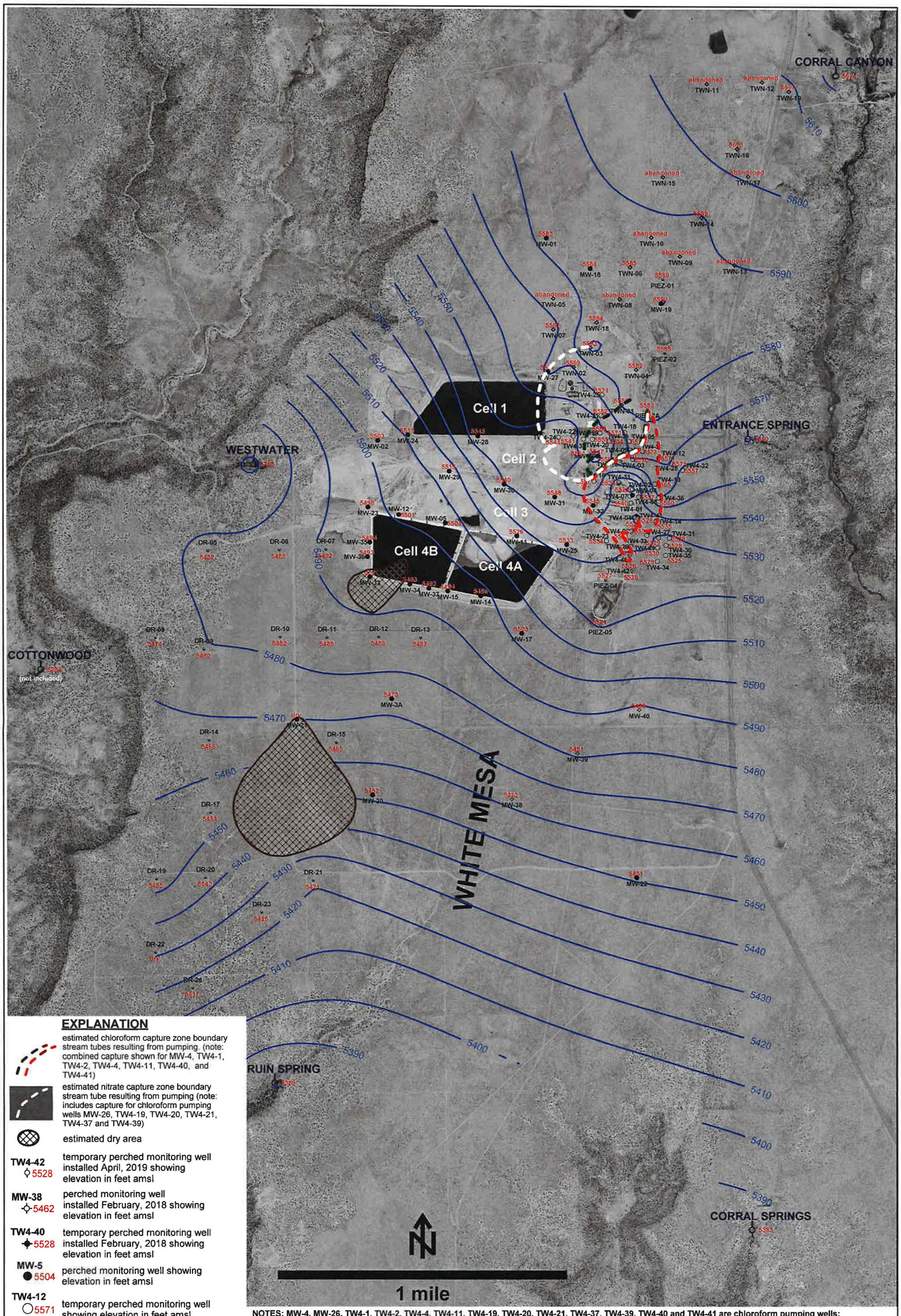
- estimated dry area
- **TW4-42** 5528 — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- **MW-38** 5462 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- **TW4-40** 5528 — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **MW-5** 5504 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5571 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5567 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5589 — 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, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2019 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/WL/Uwl0619.srf	D-1



EXPLANATION

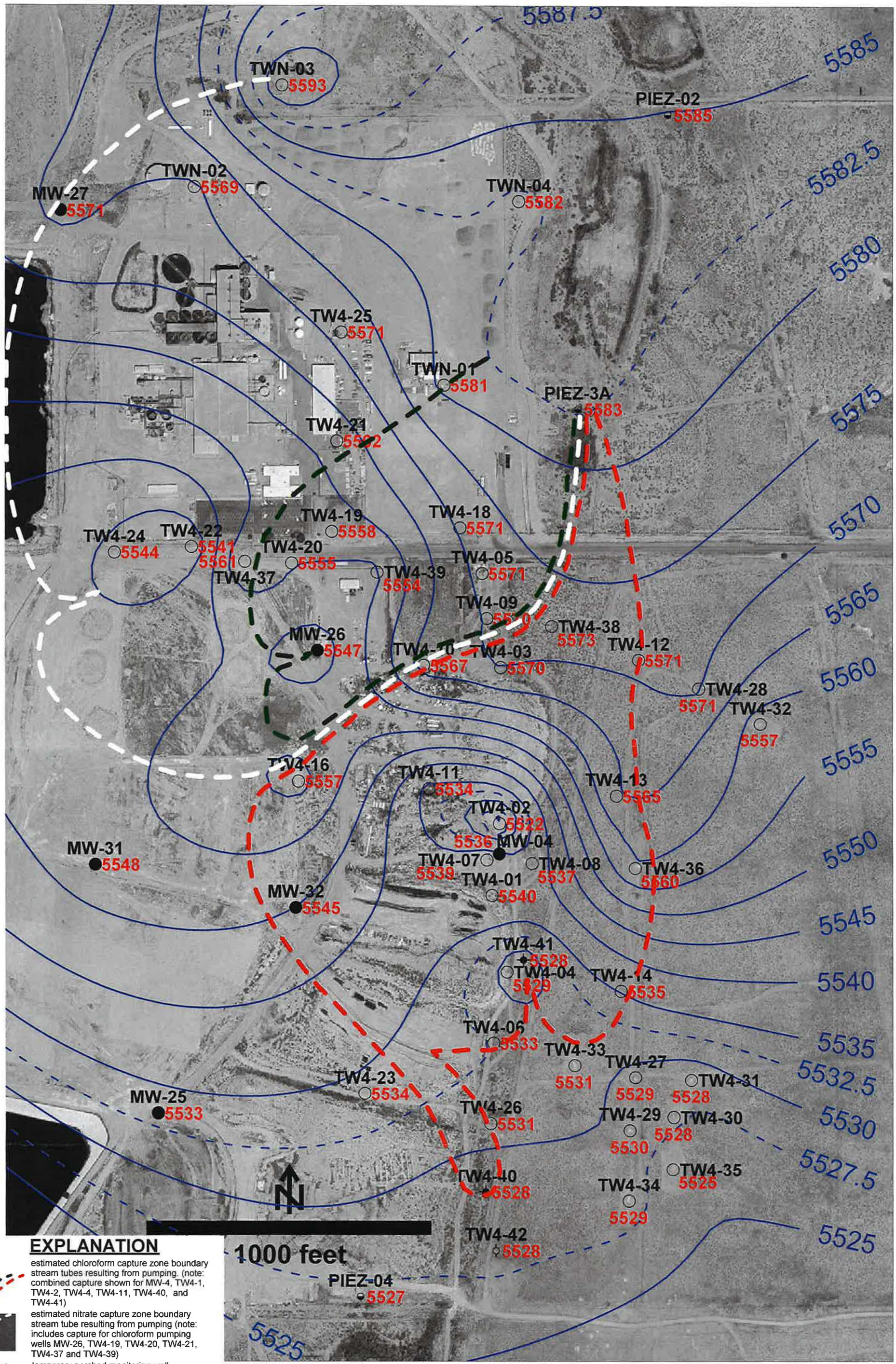
- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture shown for MW-4, TW4-1, TW4-2, TW4-4, TW4-11, TW4-40, and TW4-41)
- estimated nitrate capture zone boundary stream tube resulting from pumping (note: includes capture for chloroform pumping wells MW-26, TW4-19, TW4-20, TW4-21, TW4-37 and TW4-39)
- estimated dry area
- **TW4-42** 5528 — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- **MW-38** 5462 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- **TW4-40** 5528 — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **MW-5** 5504 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5571 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5567 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5589 — 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, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2019 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/WL/Uwl0619cz2.srf	D-2



EXPLANATION

- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture shown for MW-4, TW4-1, TW4-2, TW4-4, TW4-11, TW4-40, and TW4-41)
- estimated nitrate capture zone boundary stream tube resulting from pumping (note: includes capture for chloroform pumping wells MW-26, TW4-19, TW4-20, TW4-21, TW4-37 and TW4-39)
- **TW4-42 ◊ 5528** — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- **TW4-40 ✦ 5528** — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **MW-25 ● 5533** — perched monitoring well showing elevation in feet amsl
- **TW4-7 ○ 5539** — temporary perched monitoring well showing elevation in feet amsl
- **PIEZ-2 ⊖ 5585** — 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, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2019 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/WL/Uwl0619cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map

KRIGED 1st QUARTER, 2019 WATER LEVELS
WHITE MESA SITE

EXPLANATION

- estimated dry area
- **MW-38** 5463 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- **TW4-40** 5530 — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **PIEZ-3A** 5583 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5571 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5567 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5589 — 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, TW4-37, TW4-39 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-4 and TW4-11 water levels are below the base of the Burro Canyon Formation; TW4-16 water level appears anomalously low this quarter

HYDRO GEO CHEM, INC.

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may19/WL/Uwl0319.srf	E-1

Tab F

Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations over Time for Chloroform Monitoring Wells

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,527.63				09/25/79	94.70	93.14	
5,527.63				10/10/79	94.70	93.14	
5,528.43				01/10/80	93.90	92.34	
5,529.93				03/20/80	92.40	90.84	
5,528.03				06/17/80	94.30	92.74	
5,528.03				09/15/80	94.30	92.74	
5,527.93				10/08/80	94.40	92.84	
5,527.93				02/12/81	94.40	92.84	
5,525.93				09/01/84	96.40	94.84	
5,528.33				12/01/84	94.00	92.44	
5,528.13				02/01/85	94.20	92.64	
5,528.33				06/01/85	94.00	92.44	
5,528.93				09/01/85	93.40	91.84	
5,528.93				10/01/85	93.40	91.84	
5,528.93				11/01/85	93.40	91.84	
5,528.83				12/01/85	93.50	91.94	
5,512.33				03/01/86	110.00	108.44	
5,528.91				06/19/86	93.42	91.86	
5,528.83				09/01/86	93.50	91.94	
5,529.16				12/01/86	93.17	91.61	
5,526.66				02/20/87	95.67	94.11	
5,529.16				04/28/87	93.17	91.61	
5,529.08				08/14/87	93.25	91.69	
5,529.00				11/20/87	93.33	91.77	
5,528.75				01/26/88	93.58	92.02	
5,528.91				06/01/88	93.42	91.86	
5,528.25				08/23/88	94.08	92.52	
5,529.00				11/02/88	93.33	91.77	
5,528.33				03/09/89	94.00	92.44	
5,529.10				06/21/89	93.23	91.67	
5,529.06				09/01/89	93.27	91.71	
5,529.21				11/15/89	93.12	91.56	
5,529.22				02/16/90	93.11	91.55	
5,529.43				05/08/90	92.90	91.34	
5,529.40				08/07/90	92.93	91.37	
5,529.53				11/13/90	92.80	91.24	
5,529.86				02/27/91	92.47	90.91	
5,529.91				05/21/91	92.42	90.86	
5,529.77				08/27/91	92.56	91.00	
5,529.79				12/03/91	92.54	90.98	
5,530.13				03/17/92	92.20	90.64	
5,529.85				06/11/92	92.48	90.92	
5,529.90				09/13/92	92.43	90.87	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,529.92				12/09/92	92.41	90.85	
5,530.25				03/24/93	92.08	90.52	
5,530.20				06/08/93	92.13	90.57	
5,530.19				09/22/93	92.14	90.58	
5,529.75				12/14/93	92.58	91.02	
5,530.98				03/24/94	91.35	89.79	
5,531.35				06/15/94	90.98	89.42	
5,531.62				08/18/94	90.71	89.15	
5,532.58				12/13/94	89.75	88.19	
5,533.42				03/16/95	88.91	87.35	
5,534.70				06/27/95	87.63	86.07	
5,535.44				09/20/95	86.89	85.33	
5,537.16				12/11/95	85.17	83.61	
5,538.37				03/28/96	83.96	82.40	
5,539.10				06/07/96	83.23	81.67	
5,539.13				09/16/96	83.20	81.64	
5,542.29				03/20/97	80.04	78.48	
5,551.58				04/07/99	70.75	69.19	
5,552.08				05/11/99	70.25	68.69	
5,552.83				07/06/99	69.50	67.94	
5,553.47				09/28/99	68.86	67.30	
5,554.63				01/03/00	67.70	66.14	
5,555.13				04/04/00	67.20	65.64	
5,555.73				05/02/00	66.60	65.04	
5,556.03				05/11/00	66.30	64.74	
5,555.73				05/15/00	66.60	65.04	
5,555.98				05/25/00	66.35	64.79	
5,556.05				06/09/00	66.28	64.72	
5,556.18				06/16/00	66.15	64.59	
5,556.05				06/26/00	66.28	64.72	
5,556.15				07/06/00	66.18	64.62	
5,556.18				07/13/00	66.15	64.59	
5,556.17				07/18/00	66.16	64.60	
5,556.26				07/25/00	66.07	64.51	
5,556.35				08/02/00	65.98	64.42	
5,556.38				08/09/00	65.95	64.39	
5,556.39				08/15/00	65.94	64.38	
5,556.57				08/31/00	65.76	64.20	
5,556.68				09/08/00	65.65	64.09	
5,556.73				09/13/00	65.60	64.04	
5,556.82				09/20/00	65.51	63.95	
5,556.84				09/29/00	65.49	63.93	
5,556.81				10/05/00	65.52	63.96	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,556.89				10/12/00	65.44	63.88	
5,556.98				10/19/00	65.35	63.79	
5,557.01				10/23/00	65.32	63.76	
5,557.14				11/09/00	65.19	63.63	
5,557.17				11/14/00	65.16	63.60	
5,556.95				11/21/00	65.38	63.82	
5,557.08				11/30/00	65.25	63.69	
5,557.55				12/07/00	64.78	63.22	
5,557.66				01/14/01	64.67	63.11	
5,557.78				02/09/01	64.55	62.99	
5,558.28				03/29/01	64.05	62.49	
5,558.23				04/30/01	64.10	62.54	
5,558.31				05/31/01	64.02	62.46	
5,558.49				06/22/01	63.84	62.28	
5,558.66				07/10/01	63.67	62.11	
5,559.01				08/20/01	63.32	61.76	
5,559.24				09/19/01	63.09	61.53	
5,559.26				10/02/01	63.07	61.51	
5,559.27				11/08/01	63.06	61.50	
5,559.77				12/03/01	62.56	61.00	
5,559.78				01/03/02	62.55	60.99	
5,559.96				02/06/02	62.37	60.81	
5,560.16				03/26/02	62.17	60.61	
5,560.28				04/09/02	62.05	60.49	
5,560.76				05/23/02	61.57	60.01	
5,560.58				06/05/02	61.75	60.19	
5,560.43				07/08/02	61.90	60.34	
5,560.44				08/23/02	61.89	60.33	
5,560.71				09/11/02	61.62	60.06	
5,560.89				10/23/02	61.44	59.88	
5,557.86				11/22/02	64.47	62.91	
5,561.10				12/03/02	61.23	59.67	
5,561.39				01/09/03	60.94	59.38	
5,561.41				02/12/03	60.92	59.36	
5,561.93				03/26/03	60.40	58.84	
5,561.85				04/02/03	60.48	58.92	
5,536.62				05/01/03	85.71	84.15	
5,528.56				06/09/03	93.77	92.21	
5,535.28				07/07/03	87.05	85.49	
5,534.44				08/04/03	87.89	86.33	
5,537.10				09/11/03	85.23	83.67	
5,539.96				10/02/03	82.37	80.81	
5,535.91				11/07/03	86.42	84.86	

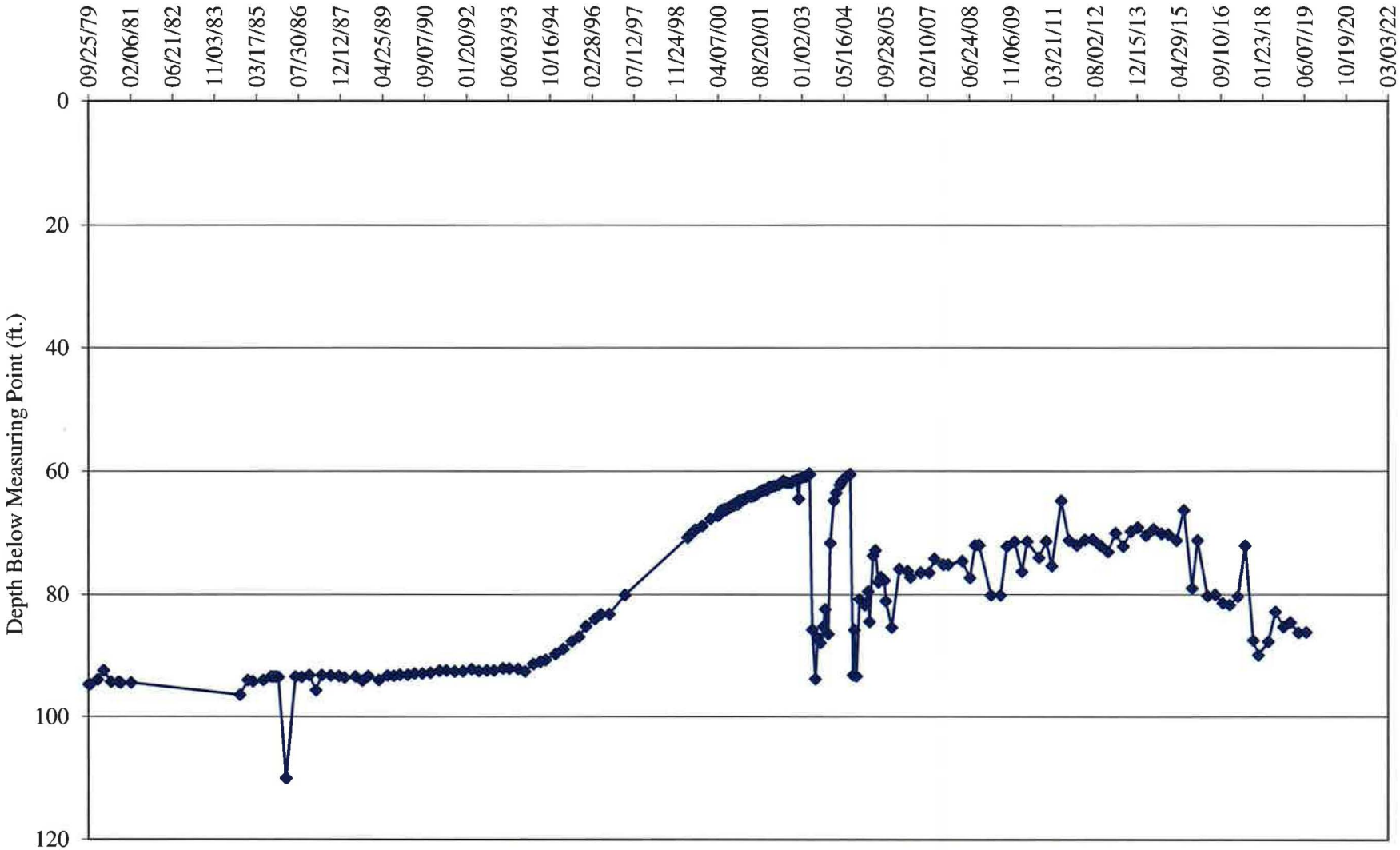
Water Levels and Data over Time
White Mesa Mill - Well MW4

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,550.70				12/03/03	71.63	70.07	
5,557.58				01/15/04	64.75	63.19	
5,558.80				02/10/04	63.53	61.97	
5,560.08				03/28/04	62.25	60.69	
5,560.55				04/12/04	61.78	60.22	
5,561.06				05/13/04	61.27	59.71	
5,561.48				06/18/04	60.85	59.29	
5,561.86				07/28/04	60.47	58.91	
5,529.17				08/30/04	93.16	91.60	
5,536.55				09/16/04	85.78	84.22	
5,529.00				10/11/04	93.33	91.77	
5,541.55				11/16/04	80.78	79.22	
5,541.12				12/22/04	81.21	79.65	
5,540.59				01/18/05	81.74	80.18	
5,542.85				02/28/05	79.48	77.92	
5,537.91				03/15/05	84.42	82.86	
5,548.67				04/26/05	73.66	72.10	
5,549.53				05/24/05	72.80	71.24	
5,544.36				06/30/05	77.97	76.41	
5,545.16				07/29/05	77.17	75.61	
5,544.67				09/12/05	77.66	76.10	
5,541.28				09/27/05	81.05	79.49	
5,536.96				12/07/05	85.37	83.81	
5,546.49				03/08/06	75.84	74.28	
5,546.15				06/13/06	76.18	74.62	
5,545.15				07/18/06	77.18	75.62	
5,545.91				11/17/06	76.42	74.86	
5,545.90				02/27/07	76.43	74.87	
5,548.16				05/02/07	74.17	72.61	
5,547.20				08/13/07	75.13	73.57	
5,547.20				10/10/07	75.13	73.57	
5,547.79				03/26/08	74.54	72.98	
5,545.09				06/25/08	77.24	75.68	
5,550.36				08/26/08	71.97	70.41	
5,550.39				10/14/08	71.94	70.38	
5,542.25				03/03/09	80.08	78.52	
5,542.25				06/24/09	80.08	78.52	
5,550.19				09/10/09	72.14	70.58	
5,550.94				12/11/09	71.39	69.83	
5,546.08				03/11/10	76.25	74.69	
5,550.98				05/11/10	71.35	69.79	
5,548.33				09/29/10	74.00	72.44	
5,551.01				12/21/10	71.32	69.76	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,547.00				02/28/11	75.33	73.77	
5,557.54				06/21/11	64.79	63.23	
5,551.14				09/20/11	71.19	69.63	
5,550.32				12/21/11	72.01	70.45	
5,551.22				03/27/12	71.11	69.55	
5,551.29				06/28/12	71.04	69.48	
5,550.29				09/27/12	72.04	70.48	
5,549.31				12/28/12	73.02	71.46	
5,552.30				03/28/13	70.03	68.47	
5,550.18				06/27/13	72.15	70.59	
5,552.55				09/27/13	69.78	68.22	
5,553.23				12/20/13	69.10	67.54	
5,551.91				03/27/14	70.42	68.86	
5,552.93				06/25/14	69.40	67.84	
5,552.23				09/25/14	70.10	68.54	
5,552.08				12/17/14	70.25	68.69	
5,551.13				03/26/15	71.20	69.64	
5,556.02				06/22/15	66.31	64.75	
5,543.38				09/30/15	78.95	77.39	
5,551.13				12/02/15	71.20	69.64	
5,542.10				03/30/16	80.23	78.67	
5,542.31				06/30/16	80.02	78.46	
5,540.96				09/29/16	81.37	79.81	
5,540.65				12/21/16	81.68	80.12	
5,542.05				03/30/17	80.28	78.72	
5,550.28				06/27/17	72.05	70.49	
5,534.84				09/28/17	87.49	85.93	
5,532.41				11/30/17	89.92	88.36	
5,534.64				03/28/18	87.69	86.13	
5,539.53				06/22/18	82.80	81.24	
5,537.04				09/24/18	85.29	83.73	
5,537.82				12/17/18	84.51	82.95	
5,536.10				03/25/19	86.23	84.67	
5,536.20				06/24/19	86.13	84.57	

MW 4 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,618.58	1.02				111.30
5,537.23				11/08/99	81.35	80.33	
5,537.38				11/09/99	81.20	80.18	
5,537.48				01/02/00	81.10	80.08	
5,537.48				01/10/00	81.10	80.08	
5,537.23				01/17/00	81.35	80.33	
5,537.28				01/24/00	81.30	80.28	
5,537.28				02/01/00	81.30	80.28	
5,537.18				02/07/00	81.40	80.38	
5,537.48				02/14/00	81.10	80.08	
5,537.48				02/23/00	81.10	80.08	
5,537.58				03/01/00	81.00	79.98	
5,537.68				03/08/00	80.90	79.88	
5,537.98				03/15/00	80.60	79.58	
5,537.68				03/20/00	80.90	79.88	
5,537.68				03/29/00	80.90	79.88	
5,537.43				04/04/00	81.15	80.13	
5,537.18				04/13/00	81.40	80.38	
5,537.48				04/21/00	81.10	80.08	
5,537.68				04/28/00	80.90	79.88	
5,537.58				05/01/00	81.00	79.98	
5,537.88				05/11/00	80.70	79.68	
5,537.58				05/15/00	81.00	79.98	
5,537.88				05/25/00	80.70	79.68	
5,537.88				06/09/00	80.70	79.68	
5,537.90				06/16/00	80.68	79.66	
5,537.88				06/26/00	80.70	79.68	
5,538.10				07/06/00	80.48	79.46	
5,538.04				07/13/00	80.54	79.52	
5,538.16				07/18/00	80.42	79.40	
5,538.42				07/27/00	80.16	79.14	
5,538.56				08/02/00	80.02	79.00	
5,538.68				08/09/00	79.90	78.88	
5,538.66				08/15/00	79.92	78.90	
5,538.33				08/31/00	80.25	79.23	
5,539.18				09/01/00	79.40	78.38	
5,539.12				09/08/00	79.46	78.44	
5,539.34				09/13/00	79.24	78.22	
5,539.50				09/20/00	79.08	78.06	
5,539.69				10/05/00	78.89	77.87	
5,540.33				11/09/00	78.25	77.23	
5,540.74				12/06/00	77.84	76.82	
5,542.39				01/14/01	76.19	75.17	
5,543.69				02/02/01	74.89	73.87	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,618.58	1.02				111.30
5,544.96				03/29/01	73.62	72.60	
5,545.45				04/30/01	73.13	72.11	
5,545.89				05/31/01	72.69	71.67	
5,546.19				06/21/01	72.39	71.37	
5,546.50				07/10/01	72.08	71.06	
5,547.18				08/20/01	71.40	70.38	
5,547.59				09/19/01	70.99	69.97	
5,547.84				10/02/01	70.74	69.72	
5,548.12				11/08/01	70.46	69.44	
5,548.65				12/03/01	69.93	68.91	
5,548.87				01/03/02	69.71	68.69	
5,549.37				02/06/02	69.21	68.19	
5,550.00				03/26/02	68.58	67.56	
5,550.22				04/09/02	68.36	67.34	
5,550.81				05/23/02	67.77	66.75	
5,550.79				06/05/02	67.79	66.77	
5,551.08				07/08/02	67.50	66.48	
5,551.54				08/23/02	67.04	66.02	
5,551.79				09/11/02	66.79	65.77	
5,552.19				10/23/02	66.39	65.37	
5,552.27				11/22/02	66.31	65.29	
5,552.48				12/03/02	66.10	65.08	
5,552.74				01/09/03	65.84	64.82	
5,552.92				02/12/03	65.66	64.64	
5,553.40				03/26/03	65.18	64.16	
5,553.48				04/02/03	65.10	64.08	
5,552.32				05/01/03	66.26	65.24	
5,550.53				06/09/03	68.05	67.03	
5,550.09				07/07/03	68.49	67.47	
5,549.64				08/04/03	68.94	67.92	
5,549.31				09/11/03	69.27	68.25	
5,549.58				10/02/03	69.00	67.98	
5,549.50				11/07/03	69.08	68.06	
5,550.07				12/03/03	68.51	67.49	
5,551.86				01/15/04	66.72	65.70	
5,552.57				02/10/04	66.01	64.99	
5,553.63				03/28/04	64.95	63.93	
5,554.04				04/12/04	64.54	63.52	
5,554.60				05/13/04	63.98	62.96	
5,556.28				06/18/04	62.30	61.28	
5,556.61				07/28/04	61.97	60.95	
5,554.21				08/30/04	64.37	63.35	
5,553.49				09/16/04	65.09	64.07	

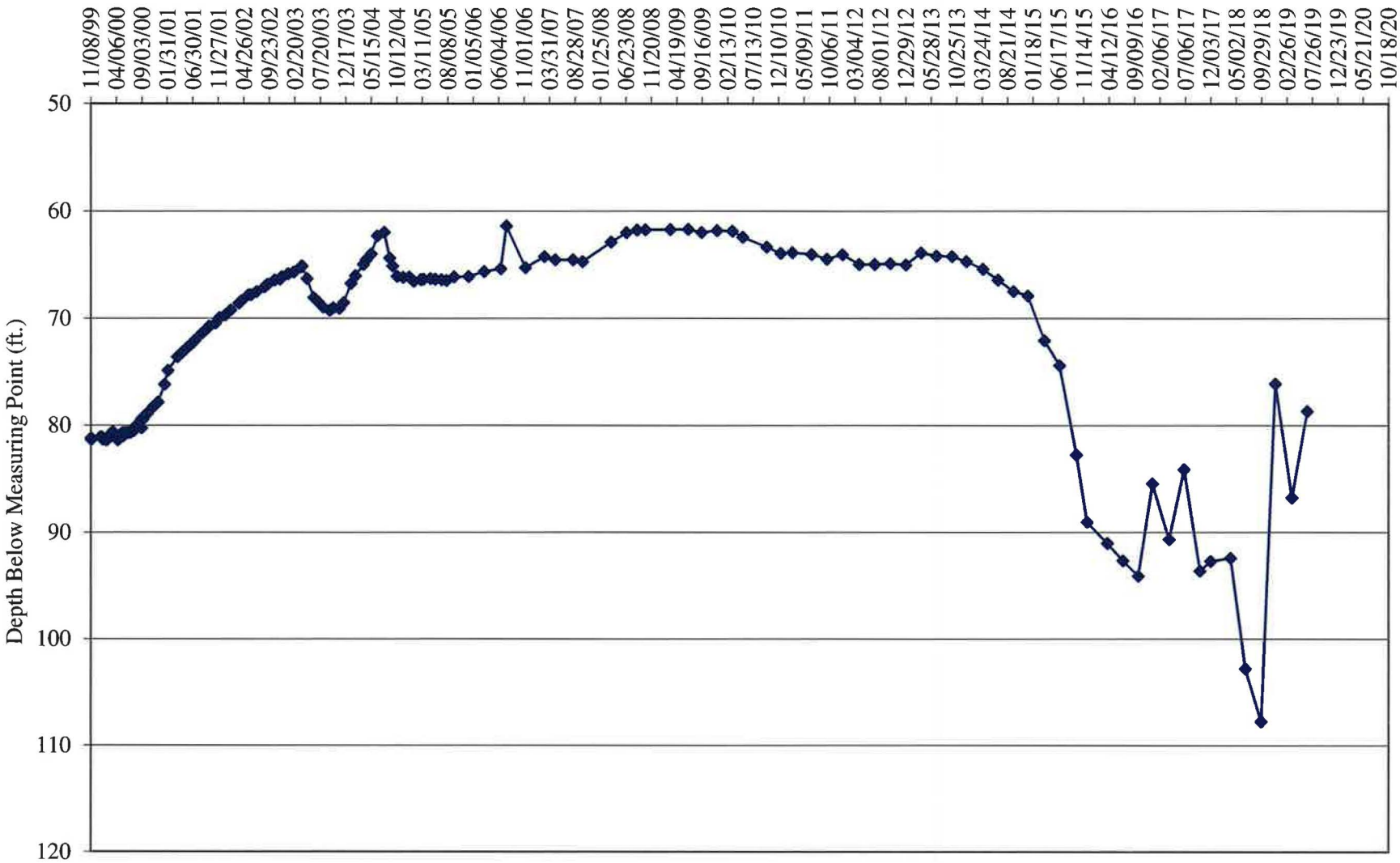
Water Levels and Data over Time
White Mesa Mill - Well TW4-1

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,618.58	1.02				111.30
5,552.53				10/11/04	66.05	65.03	
5,552.42				11/16/04	66.16	65.14	
5,552.46				12/22/04	66.12	65.10	
5,552.07				01/18/05	66.51	65.49	
5,552.21				02/28/05	66.37	65.35	
5,552.26				03/15/05	66.32	65.30	
5,552.30				04/26/05	66.28	65.26	
5,552.25				05/24/05	66.33	65.31	
5,552.22				06/30/05	66.36	65.34	
5,552.15				07/29/05	66.43	65.41	
5,552.47				09/12/05	66.11	65.09	
5,552.50				12/07/05	66.08	65.06	
5,552.96				03/08/06	65.62	64.60	
5,553.23				06/14/06	65.35	64.33	
5,557.20				07/18/06	61.38	60.36	
5,553.32				11/07/06	65.26	64.24	
5,554.35				02/27/07	64.23	63.21	
5,554.07				05/02/07	64.51	63.49	
5,554.07				08/14/07	64.51	63.49	
5,553.88				10/10/07	64.70	63.68	
5,555.73				03/26/08	62.85	61.83	
5,556.60				06/24/08	61.98	60.96	
5,556.83				08/26/08	61.75	60.73	
5,556.87				10/14/08	61.71	60.69	
5,556.90				03/10/09	61.68	60.66	
5,556.91				06/24/09	61.67	60.65	
5,556.61				09/10/09	61.97	60.95	
5,556.78				12/11/09	61.8	60.78	
5,556.75				03/11/10	61.83	60.81	
5,556.19				05/11/10	62.39	61.37	
5,555.26				09/29/10	63.32	62.30	
5,554.66				12/21/10	63.92	62.90	
5,554.74				02/28/11	63.84	62.82	
5,554.57				06/21/11	64.01	62.99	
5,554.13				09/20/11	64.45	63.43	
5,554.54				12/21/11	64.04	63.02	
5,553.64				03/27/12	64.94	63.92	
5,553.66				06/28/12	64.92	63.90	
5,553.73				09/27/12	64.85	63.83	
5,553.59				12/28/12	64.99	63.97	
5,554.73				03/28/13	63.85	62.83	
5,554.44				06/27/13	64.14	63.12	
5,554.37				09/27/13	64.21	63.19	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,618.58	1.02				111.30
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	
5,525.92				06/30/16	92.66	91.64	
5,524.48				09/29/16	94.10	93.08	
5,533.15				12/21/16	85.43	84.41	
5,527.92				03/30/17	90.66	89.64	
5,534.48				06/27/17	84.10	83.08	
5,524.98				09/28/17	93.60	92.58	
5,525.88				11/30/17	92.70	91.68	
5,526.18				03/28/18	92.40	91.38	
5,515.78				06/22/18	102.80	101.78	
5,510.83				09/24/18	107.75	106.73	
5,542.47				12/17/18	76.11	75.09	
5,531.82				03/25/19	86.76	85.74	
5,539.90				06/24/19	78.68	77.66	

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



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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,624.72	1.62				120.900
5,548.57				11/08/99	76.15	74.53	
5,548.57				11/09/99	76.15	74.53	
5,548.32				01/02/00	76.40	74.78	
5,548.52				01/10/00	76.20	74.58	
5,548.32				01/17/00	76.40	74.78	
5,548.72				01/24/00	76.00	74.38	
5,548.62				02/01/00	76.10	74.48	
5,548.62				02/07/00	76.10	74.48	
5,549.02				02/14/00	75.70	74.08	
5,549.12				02/23/00	75.60	73.98	
5,549.22				03/01/00	75.50	73.88	
5,549.32				03/08/00	75.40	73.78	
5,549.22				03/15/00	75.50	73.88	
5,549.92				03/20/00	74.80	73.18	
5,549.72				03/29/00	75.00	73.38	
5,549.42				04/04/00	75.30	73.68	
5,549.52				04/13/00	75.20	73.58	
5,549.72				04/21/00	75.00	73.38	
5,549.82				04/28/00	74.90	73.28	
5,549.82				05/01/00	74.90	73.28	
5,550.12				05/11/00	74.60	72.98	
5,549.82				05/15/00	74.90	73.28	
5,550.12				05/25/00	74.60	72.98	
5,550.12				06/09/00	74.60	72.98	
5,550.22				06/16/00	74.50	72.88	
5,550.07				06/26/00	74.65	73.03	
5,550.17				07/06/00	74.55	72.93	
5,550.17				07/13/00	74.55	72.93	
5,550.18				07/18/00	74.54	72.92	
5,550.33				07/27/00	74.39	72.77	
5,550.38				08/02/00	74.34	72.72	
5,550.40				08/09/00	74.32	72.70	
5,550.42				08/15/00	74.30	72.68	
5,550.54				08/31/00	74.18	72.56	
5,550.87				09/08/00	73.85	72.23	
5,550.97				09/13/00	73.75	72.13	
5,551.04				09/20/00	73.68	72.06	
5,545.83				10/05/00	78.89	77.27	
5,546.47				11/09/00	78.25	76.63	
5,546.88				12/06/00	77.84	76.22	
5,552.18				01/26/01	72.54	70.92	
5,552.20				02/02/01	72.52	70.90	
5,551.10				03/29/01	73.62	72.00	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,624.72	1.62				120.900
5,551.59				04/30/01	73.13	71.51	
5,552.03				05/31/01	72.69	71.07	
5,552.33				06/21/01	72.39	70.77	
5,552.64				07/10/01	72.08	70.46	
5,553.32				08/20/01	71.40	69.78	
5,553.73				09/19/01	70.99	69.37	
5,553.98				10/02/01	70.74	69.12	
5,554.14				11/08/01	70.58	68.96	
5,554.79				12/03/01	69.93	68.31	
5,554.74				01/03/02	69.98	68.36	
5,554.91				02/06/02	69.81	68.19	
5,555.15				03/26/02	69.57	67.95	
5,555.39				04/09/02	69.33	67.71	
5,555.73				05/23/02	68.99	67.37	
5,555.79				06/05/02	68.93	67.31	
5,555.91				07/08/02	68.81	67.19	
5,556.04				08/23/02	68.68	67.06	
5,556.25				09/11/02	68.47	66.85	
5,556.72				10/23/02	68.00	66.38	
5,556.42				11/22/02	68.30	66.68	
5,557.01				12/03/02	67.71	66.09	
5,557.20				01/09/03	67.52	65.90	
5,557.35				02/12/03	67.37	65.75	
5,557.83				03/26/03	66.89	65.27	
5,557.87				04/02/03	66.85	65.23	
5,553.71				05/01/03	71.01	69.39	
5,548.98				06/09/03	75.74	74.12	
5,548.14				07/07/03	76.58	74.96	
5,547.75				08/04/03	76.97	75.35	
5,547.22				09/11/03	77.50	75.88	
5,547.68				10/02/03	77.04	75.42	
5,547.52				11/07/03	77.20	75.58	
5,548.29				12/03/03	76.43	74.81	
5,554.00				01/15/04	70.72	69.10	
5,555.46				02/10/04	69.26	67.64	
5,556.90				03/28/04	67.82	66.20	
5,557.49				04/12/04	67.23	65.61	
5,558.07				05/13/04	66.65	65.03	
5,558.19				06/18/04	66.53	64.91	
5,559.00				07/28/04	65.72	64.10	
5,554.26				08/30/04	70.46	68.84	
5,551.97				09/16/04	72.75	71.13	
5,549.65				10/11/04	75.07	73.45	

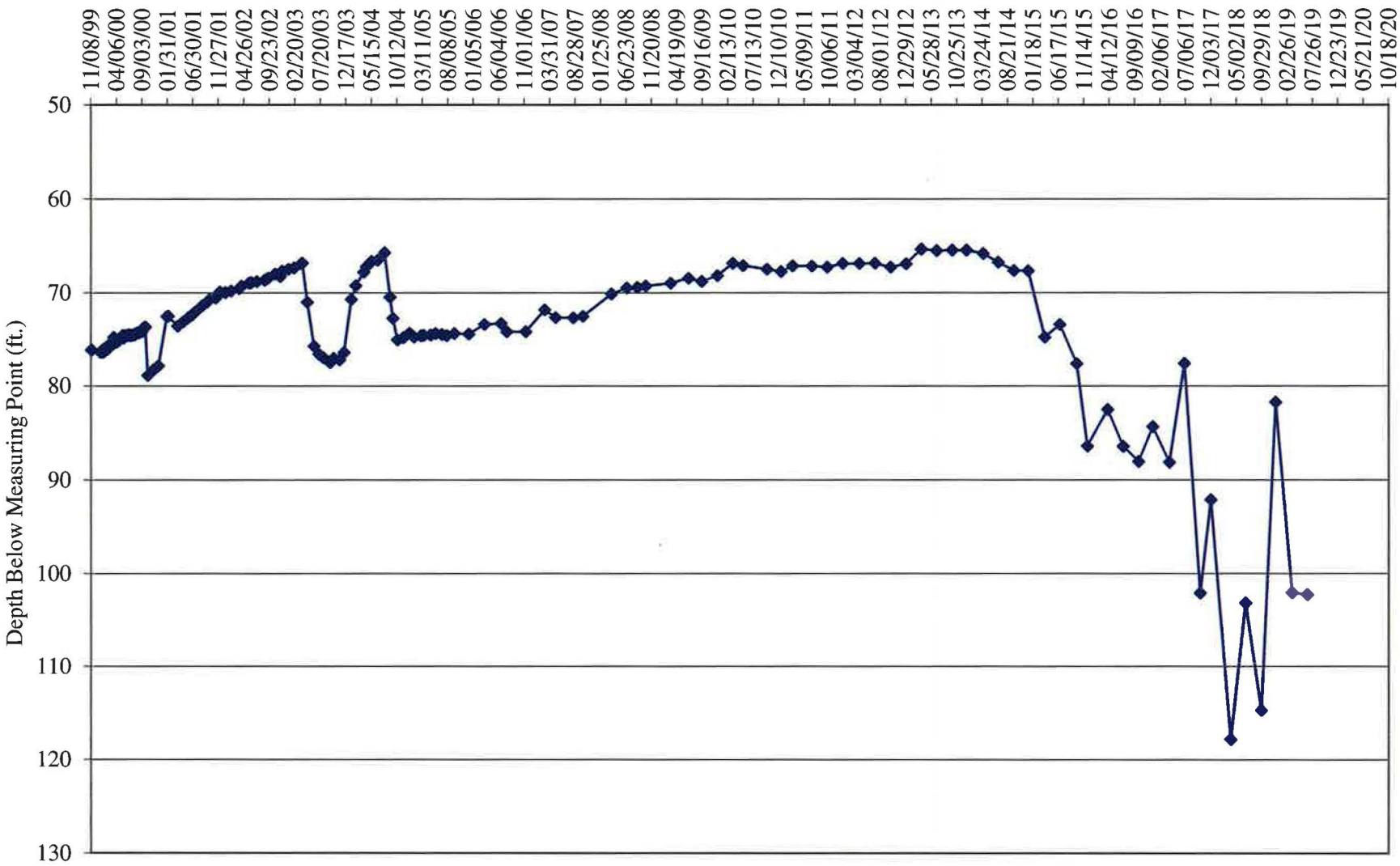
Water Levels and Data over Time
White Mesa Mill - Well TW4-2

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,624.72	1.62				120.900
5,549.89				11/16/04	74.83	73.21	
5,550.37				12/22/04	74.35	72.73	
5,549.95				01/18/05	74.77	73.15	
5,550.09				02/28/05	74.63	73.01	
5,550.13				03/15/05	74.59	72.97	
5,550.18				04/26/05	74.54	72.92	
5,550.32				05/24/05	74.40	72.78	
5,550.21				06/30/05	74.51	72.89	
5,550.11				07/29/05	74.61	72.99	
5,550.33				09/12/05	74.39	72.77	
5,550.29				12/07/05	74.43	72.81	
5,551.30				03/08/06	73.42	71.80	
5,551.42				06/14/06	73.3	71.68	
5,550.52				07/18/06	74.20	72.58	
5550.52				11/07/06	74.20	72.58	
5552.89				02/27/07	71.83	70.21	
5,552.06				05/02/07	72.66	71.04	
5,552.02				08/14/07	72.7	71.08	
5,552.20				10/10/07	72.52	70.90	
5,554.58				03/26/08	70.14	68.52	
5,555.23				06/24/08	69.49	67.87	
5,555.29				08/26/08	69.43	67.81	
5,555.43				10/14/08	69.29	67.67	
5,555.73				03/10/09	68.99	67.37	
5,556.25				06/24/09	68.47	66.85	
5,555.94				09/10/09	68.78	67.16	
5,556.53				12/11/09	68.19	66.57	
5,557.87				03/11/10	66.85	65.23	
5,557.63				05/11/10	67.09	65.47	
5,557.24				09/29/10	67.48	65.86	
5,557.00				12/21/10	67.72	66.10	
5,557.61				02/28/11	67.11	65.49	
5,557.58				06/21/11	67.14	65.52	
5,557.46				09/20/11	67.26	65.64	
5,557.84				12/21/11	66.88	65.26	
5,557.86				03/27/12	66.86	65.24	
5,557.87				06/28/12	66.85	65.23	
5,557.46				09/27/12	67.26	65.64	
5,557.82				12/28/12	66.9	65.28	
5,559.39				03/28/13	65.33	63.71	
5,559.21				06/27/13	65.51	63.89	
5,559.26				09/27/13	65.46	63.84	
5,559.27				12/20/13	65.45	63.83	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,624.72	1.62				120.900
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	
5,538.31				06/30/16	86.41	84.79	
5,536.70				09/29/16	88.02	86.40	
5,540.40				12/21/16	84.32	82.70	
5,536.61				03/30/17	88.11	86.49	
5,547.16				06/27/17	77.56	75.94	
5,522.65				09/28/17	102.07	100.45	
5,532.64				11/30/17	92.08	90.46	
5,506.94				03/28/18	117.78	116.16	
5521.60				06/22/18	103.12	101.50	
5510.01				09/24/18	114.71	113.09	
5543.01				12/17/18	81.71	80.09	
5522.70				03/25/19	102.02	100.40	
5522.49				06/24/19	102.23	100.61	

TW4-2 Water Depth Over Time (ft. blmp)



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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				140.30
5,565.78				11/29/99	66.45	65.43	
5,566.93				01/02/00	65.30	64.28	
5,567.03				01/10/00	65.20	64.18	
5,566.83				01/17/00	65.40	64.38	
5,567.13				01/24/00	65.10	64.08	
5,567.33				02/01/00	64.90	63.88	
5,567.13				02/07/00	65.10	64.08	
5,567.43				02/14/00	64.80	63.78	
5,567.63				02/23/00	64.60	63.58	
5,567.73				03/01/00	64.50	63.48	
5,567.83				03/08/00	64.40	63.38	
5,567.70				03/15/00	64.53	63.51	
5,568.03				03/20/00	64.20	63.18	
5,567.93				03/29/00	64.30	63.28	
5,567.63				04/04/00	64.60	63.58	
5,567.83				04/13/00	64.40	63.38	
5,568.03				04/21/00	64.20	63.18	
5,568.23				04/28/00	64.00	62.98	
5,568.13				05/01/00	64.10	63.08	
5,568.53				05/11/00	63.70	62.68	
5,568.23				05/15/00	64.00	62.98	
5,568.53				05/25/00	63.70	62.68	
5,568.61				06/09/00	63.62	62.60	
5,568.69				06/16/00	63.54	62.52	
5,568.45				06/26/00	63.78	62.76	
5,568.61				07/06/00	63.62	62.60	
5,568.61				07/06/00	63.62	62.60	
5,568.49				07/13/00	63.74	62.72	
5,568.55				07/18/00	63.68	62.66	
5,568.65				07/27/00	63.58	62.56	
5,568.73				08/02/00	63.50	62.48	
5,568.77				08/09/00	63.46	62.44	
5,568.76				08/16/00	63.47	62.45	
5,568.95				08/31/00	63.28	62.26	
5,568.49				09/08/00	63.74	62.72	
5,568.67				09/13/00	63.56	62.54	
5,568.96				09/20/00	63.27	62.25	
5,568.93				10/05/00	63.3	62.28	
5,569.34				11/09/00	62.89	61.87	
5,568.79				12/06/00	63.44	62.42	
5,569.11				01/03/01	63.12	62.10	
5,569.75				02/09/01	62.48	61.46	
5,570.34				03/28/01	61.89	60.87	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				140.30
5,570.61				04/30/01	61.62	60.60	
5,570.70				05/31/01	61.53	60.51	
5,570.88				06/21/01	61.35	60.33	
5,571.02				07/10/01	61.21	60.19	
5,571.70				08/20/01	60.53	59.51	
5,572.12				09/19/01	60.11	59.09	
5,572.08				10/02/01	60.15	59.13	
5,572.78				11/08/01	59.45	58.43	
5,573.27				12/03/01	58.96	57.94	
5,573.47				01/03/02	58.76	57.74	
5,573.93				02/06/02	58.30	57.28	
5,574.75				03/26/02	57.48	56.46	
5,574.26				04/09/02	57.97	56.95	
5,575.39				05/23/02	56.84	55.82	
5,574.84				06/05/02	57.39	56.37	
5,575.33				07/08/02	56.90	55.88	
5,575.79				08/23/02	56.44	55.42	
5,576.08				09/11/02	56.15	55.13	
5,576.30				10/23/02	55.93	54.91	
5,576.35				11/22/02	55.88	54.86	
5,576.54				12/03/02	55.69	54.67	
5,576.96				01/09/03	55.27	54.25	
5,577.11				02/12/03	55.12	54.10	
5,577.61				03/26/03	54.62	53.60	
5,572.80				04/02/03	59.43	58.41	
5,577.89				05/01/03	54.34	53.32	
5,577.91				06/09/03	54.32	53.30	
5,577.53				07/07/03	54.70	53.68	
5,577.50				08/04/03	54.73	53.71	
5,577.71				09/11/03	54.52	53.50	
5,577.31				10/02/03	54.92	53.90	
5,577.33				11/07/03	54.90	53.88	
5,577.34				12/03/03	54.89	53.87	
5,578.24				01/15/04	53.99	52.97	
5,578.38				02/10/04	53.85	52.83	
5,578.69				03/28/04	53.54	52.52	
5,579.15				04/12/04	53.08	52.06	
5,579.47				05/13/04	52.76	51.74	
5,579.53				06/18/04	52.70	51.68	
5,580.17				07/28/04	52.06	51.04	
5,580.20				08/30/04	52.03	51.01	
5,580.26				09/16/04	51.97	50.95	
5,580.12				10/11/04	52.11	51.09	

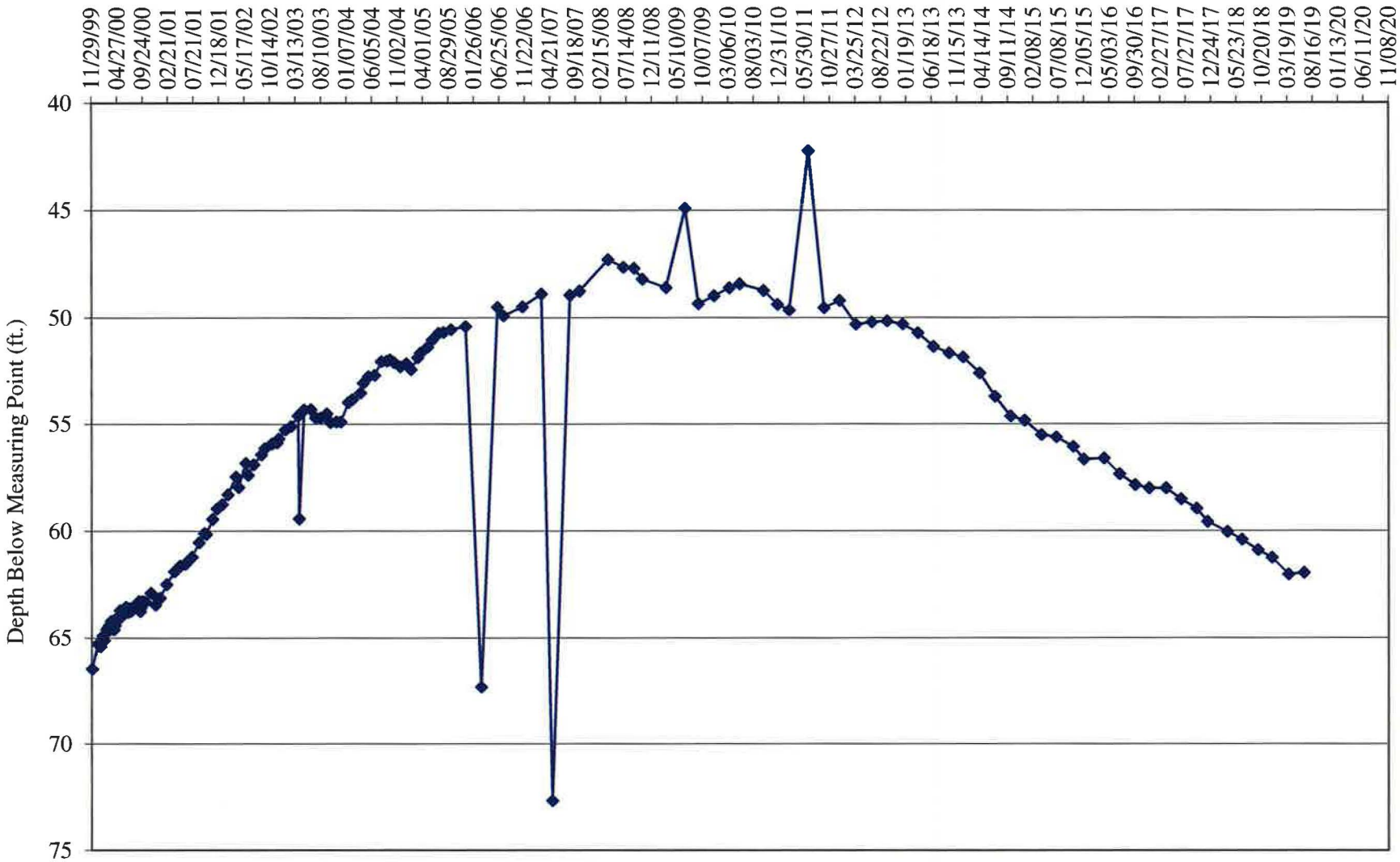
Water Levels and Data over Time
White Mesa Mill - Well TW4-3

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				140.30
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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				140.30
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	
5,574.89				06/30/16	57.34	56.32	
5,574.37				09/29/16	57.86	56.84	
5,574.23				12/21/16	58.00	56.98	
5,574.23				03/30/17	58.00	56.98	
5,573.72				06/27/17	58.51	57.49	
5,573.28				09/28/17	58.95	57.93	
5,572.66				11/30/17	59.57	58.55	
5,572.19				03/28/18	60.04	59.02	
5571.83				06/22/18	60.40	59.38	
5571.34				09/25/18	60.89	59.87	
5570.99				12/17/18	61.24	60.22	
5570.21				03/25/19	62.02	61.00	
5570.28				6/24/2019	61.95	60.93	

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



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

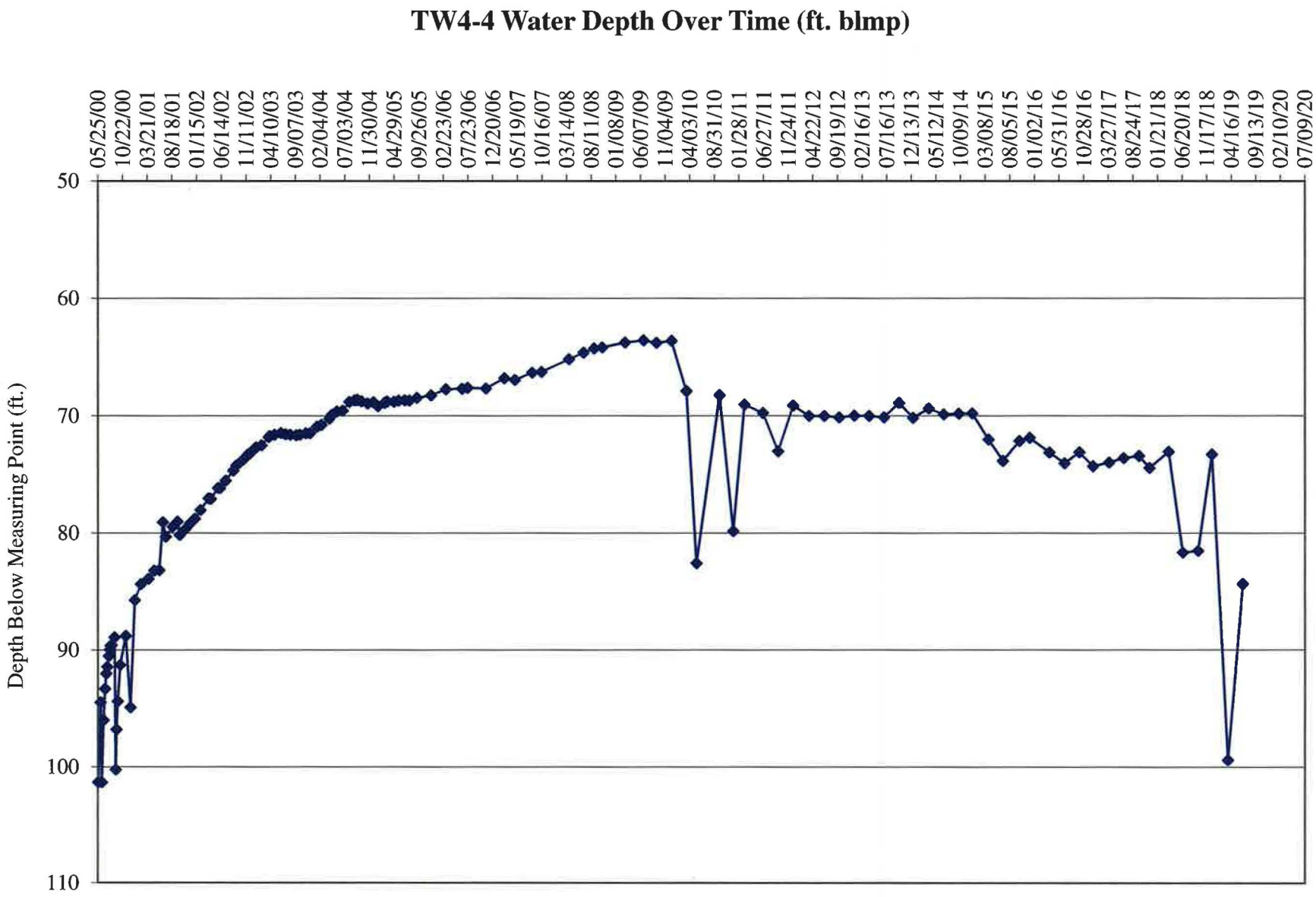
Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,512.145				05/25/00	101.34	100.16	
5,518.985				06/09/00	94.50	93.32	
5,512.145				06/16/00	101.34	100.16	
5,517.465				06/26/00	96.02	94.84	
5,520.145				07/06/00	93.34	92.16	
5,521.435				07/13/00	92.05	90.87	
5,522.005				07/18/00	91.48	90.30	
5,522.945				07/27/00	90.54	89.36	
5,523.485				08/02/00	90.00	88.82	
5,523.845				08/09/00	89.64	88.46	
5,523.885				08/15/00	89.60	88.42	
5,524.555				09/01/00	88.93	87.75	
5,513.235				09/08/00	100.25	99.07	
5,516.665				09/13/00	96.82	95.64	
5,519.085				09/20/00	94.40	93.22	
5,522.165				10/05/00	91.32	90.14	
5,524.665				11/09/00	88.82	87.64	
5,518.545				12/06/00	94.94	93.76	
5,527.695				01/03/01	85.79	84.61	
5,529.085				02/09/01	84.40	83.22	
5,529.535				03/27/01	83.95	82.77	
5,530.235				04/30/01	83.25	82.07	
5,530.265				05/31/01	83.22	82.04	
5,534.405				06/22/01	79.08	77.90	
5,533.145				07/10/01	80.34	79.16	
5,534.035				08/20/01	79.45	78.27	
5,534.465				09/19/01	79.02	77.84	
5,533.285				10/02/01	80.20	79.02	
5,533.865				11/08/01	79.62	78.44	
5,534.275				12/03/01	79.21	78.03	
5,534.715				01/03/02	78.77	77.59	
5,535.435				02/06/02	78.05	76.87	
5,536.445				03/26/02	77.04	75.86	
5,536.405				04/09/02	77.08	75.90	
5,537.335				05/23/02	76.15	74.97	
5,537.325				06/05/02	76.16	74.98	
5,537.975				07/08/02	75.51	74.33	
5,538.825				08/23/02	74.66	73.48	
5,539.275				09/11/02	74.21	73.03	
5,539.765				10/23/02	73.72	72.54	
5,540.205				11/22/02	73.28	72.10	
5,540.295				12/03/02	73.19	72.01	
5,540.795				01/09/03	72.69	71.51	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,540.985				02/12/03	72.50	71.32	
5,541.675				03/26/03	71.81	70.63	
5,541.765				04/02/03	71.72	70.54	
5,541.885				05/01/03	71.60	70.42	
5,542.025				06/09/03	71.46	70.28	
5,541.925				07/07/03	71.56	70.38	
5,541.885				08/04/03	71.60	70.42	
5,541.825				09/11/03	71.66	70.48	
5,541.885				10/02/03	71.60	70.42	
5,541.995				11/07/03	71.49	70.31	
5,542.005				12/03/03	71.48	70.30	
5,542.555				01/15/04	70.93	69.75	
5,542.705				02/10/04	70.78	69.60	
5,543.225				03/28/04	70.26	69.08	
5,543.555				04/12/04	69.93	68.75	
5,543.865				05/13/04	69.62	68.44	
5,543.915				06/18/04	69.57	68.39	
5,544.655				07/28/04	68.83	67.65	
5,544.795				08/30/04	68.69	67.51	
5,544.845				09/16/04	68.64	67.46	
5,544.705				10/11/04	68.78	67.60	
5,544.525				11/16/04	68.96	67.78	
5,544.625				12/22/04	68.86	67.68	
5,544.305				01/18/05	69.18	68.00	
5,544.585				02/28/05	68.90	67.72	
5,544.685				03/15/05	68.80	67.62	
5,544.675				04/26/05	68.81	67.63	
5,544.785				05/24/05	68.70	67.52	
5,544.795				06/30/05	68.69	67.51	
5,544.775				07/29/05	68.71	67.53	
5,545.005				09/12/05	68.48	67.30	
5,545.225				12/07/05	68.26	67.08	
5,545.735				03/08/06	67.75	66.57	
5,545.785				06/14/06	67.70	66.52	
5,545.855				07/18/06	67.63	66.45	
5,545.805				11/07/06	67.68	66.50	
5546.675				02/27/07	66.81	65.63	
5,546.535				05/02/07	66.95	65.77	
5,547.155				08/15/07	66.33	65.15	
5,547.215				10/10/07	66.27	65.09	
5,548.305				03/26/08	65.18	64.00	
5,548.865				06/24/08	64.62	63.44	
5,549.235				08/26/08	64.25	63.07	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,549.305				10/14/08	64.18	63.00	
5,549.725				03/03/09	63.76	62.58	
5,549.905				06/24/09	63.58	62.40	
5,549.695				09/10/09	63.79	62.61	
5,549.865				12/11/09	63.62	62.44	
5,545.60				03/11/10	67.89	66.71	
5,530.88				05/11/10	82.61	81.43	
5,545.24				09/29/10	68.25	67.07	
5,533.66				12/21/10	79.83	78.65	
5,544.44				02/28/11	69.05	67.87	
5,543.73				06/21/11	69.76	68.58	
5,540.48				09/20/11	73.01	71.83	
5,544.36				12/21/11	69.13	67.95	
5,543.48				03/27/12	70.01	68.83	
5,543.49				06/28/12	70.00	68.82	
5,543.36				09/27/12	70.13	68.95	
5,543.51				12/28/12	69.98	68.80	
5,543.49				03/28/13	70.00	68.82	
5,543.36				06/27/13	70.13	68.95	
5,544.59				09/27/13	68.90	67.72	
5,543.33				12/20/13	70.16	68.98	
5,544.11				03/27/14	69.38	68.20	
5,543.61				06/25/14	69.88	68.70	
5,543.67				09/25/14	69.82	68.64	
5,543.69				12/17/14	69.80	68.62	
5,541.49				03/26/15	72.00	70.82	
5,539.67				06/22/15	73.82	72.64	
5,541.35				09/30/15	72.14	70.96	
5,541.63				12/02/15	71.86	70.68	
5,540.38				03/30/16	73.11	71.93	
5,539.46				06/30/16	74.03	72.85	
5,540.39				09/29/16	73.10	71.92	
5,539.21				12/21/16	74.28	73.10	
5,539.53				03/30/17	73.96	72.78	
5,539.89				06/27/17	73.60	72.42	
5,540.09				09/28/17	73.40	72.22	
5,539.07				11/30/17	74.42	73.24	
5,540.45				03/28/18	73.04	71.86	
5,531.79				06/22/18	81.70	80.52	
5,531.94				09/24/18	81.55	80.37	
5,540.22				12/17/18	73.27	72.09	
5,514.10				03/25/19	99.39	98.21	
5,529.11				06/24/19	84.38	83.20	


TW4-4 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
50
60
70
80
90
100
110
05/25/00
10/22/00
03/21/01
08/18/01
01/15/02
06/14/02
11/11/02
04/10/03
09/07/03
02/04/04
07/03/04
11/30/04
04/29/05
09/26/05
02/23/06
07/23/06
12/20/06
05/19/07
10/16/07
03/14/08
08/11/08
01/08/09
06/07/09
11/04/09
04/03/10
08/31/10
01/28/11
06/27/11
11/24/11
04/22/12
09/19/12
02/16/13
07/16/13
12/13/13
05/12/14
10/09/14
03/08/15
08/05/15
01/02/16
05/31/16
10/28/16
03/27/17
08/24/17
01/21/18
06/20/18
11/17/18
04/16/19
09/13/19
02/10/20
07/09/20

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.85
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	
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	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.85
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	
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	

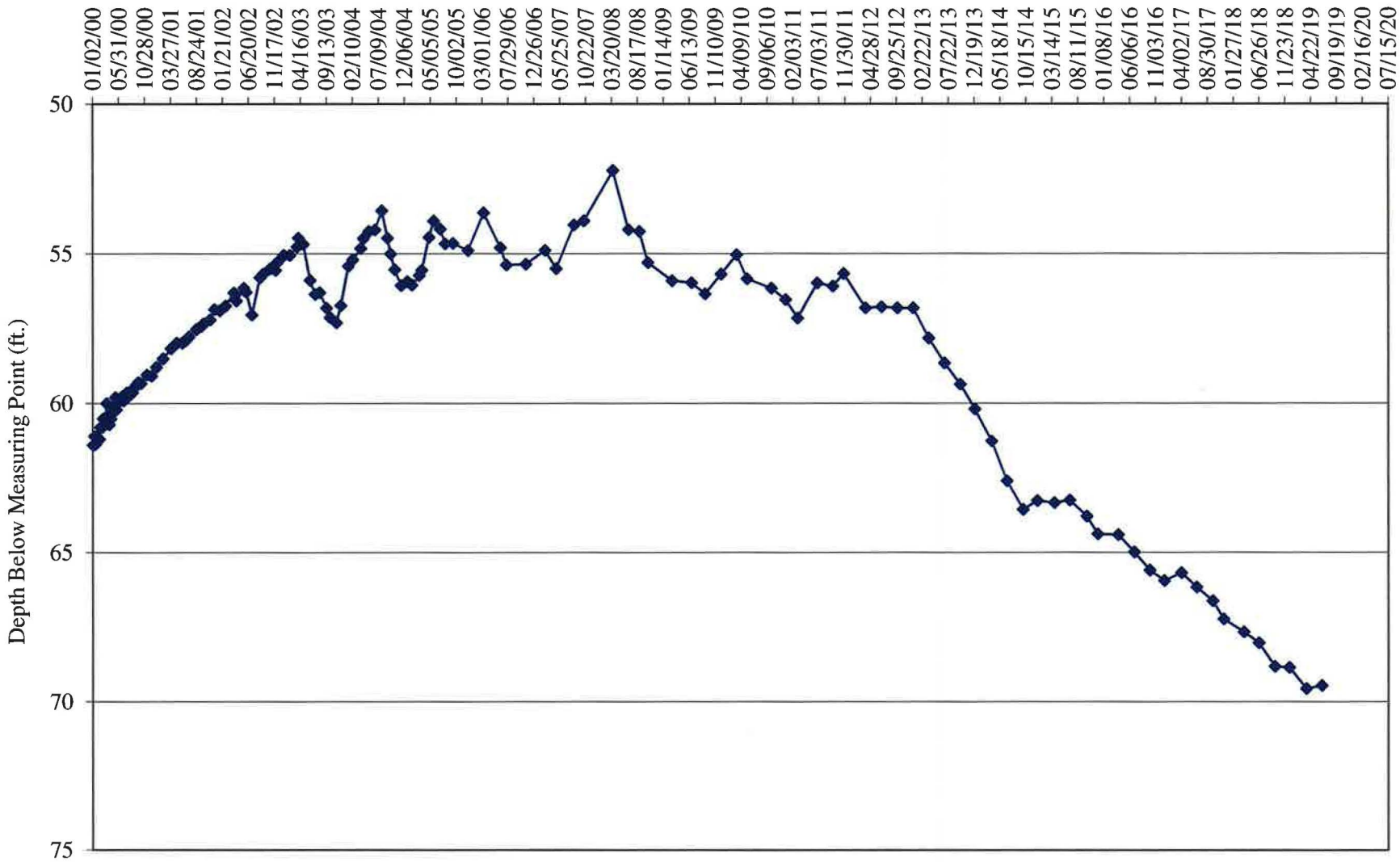
Water Levels and Data over Time
White Mesa Mill - Well TW4-5

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.85
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	
5585.81				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	
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	
5,575.72				06/30/16	64.98	63.03	
5,575.12				09/29/16	65.58	63.63	

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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.85
5,574.77				12/21/16	65.93	63.98	
5,575.03				03/30/17	65.67	63.72	
5,574.55				06/27/17	66.15	64.20	
5,574.09				09/28/17	66.61	64.66	
5,573.48				11/30/17	67.22	65.27	
5,573.05				03/28/18	67.65	65.70	
5572.68				06/22/18	68.02	66.07	
5571.89				09/24/18	68.81	66.86	
5571.86				12/17/18	68.84	66.89	
5571.15				03/25/19	69.55	67.60	
5571.26				06/24/19	69.44	67.49	

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



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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				99.60
5,522.28				05/25/00	86.50	85.05	
5,521.51				06/09/00	87.27	85.82	
5,522.35				06/16/00	86.43	84.98	
5,522.14				06/26/00	86.64	85.19	
5,522.25				07/06/00	86.53	85.08	
5,522.13				07/13/00	86.65	85.20	
5,522.17				07/18/00	86.61	85.16	
5,522.26				07/25/00	86.52	85.07	
5,522.31				08/02/00	86.47	85.02	
5,522.33				08/09/00	86.45	85.00	
5,522.35				08/15/00	86.43	84.98	
5,522.40				08/31/00	86.38	84.93	
5,522.40				09/08/00	86.38	84.93	
5,522.45				09/13/00	86.33	84.88	
5,522.53				09/20/00	86.25	84.80	
5,522.39				10/05/00	86.39	84.94	
5,522.42				11/09/00	86.36	84.91	
5,522.29				12/06/00	86.49	85.04	
5,522.63				01/03/01	86.15	84.70	
5,522.72				02/09/01	86.06	84.61	
5,522.90				03/26/01	85.88	84.43	
5,522.70				04/30/01	86.08	84.63	
5,522.89				05/31/01	85.89	84.44	
5,522.88				06/20/01	85.90	84.45	
5,522.96				07/10/01	85.82	84.37	
5,523.10				08/20/01	85.68	84.23	
5,523.23				09/19/01	85.55	84.10	
5,523.21				10/02/01	85.57	84.12	
5,523.25				11/08/01	85.53	84.08	
5,523.46				12/03/01	85.32	83.87	
5,523.36				01/03/02	85.42	83.97	
5,523.50				02/06/02	85.28	83.83	
5,523.94				03/26/02	84.84	83.39	
5,523.75				04/09/02	85.03	83.58	
5,524.23				05/23/02	84.55	83.10	
5,523.98				06/05/02	84.80	83.35	
5,524.31				07/08/02	84.47	83.02	
5,524.36				08/23/02	84.42	82.97	
5,524.49				09/11/02	84.29	82.84	
5,524.71				10/23/02	84.07	82.62	
5,524.60				11/22/02	84.18	82.73	
5,524.94				12/03/02	83.84	82.39	
5,525.10				01/09/03	83.68	82.23	

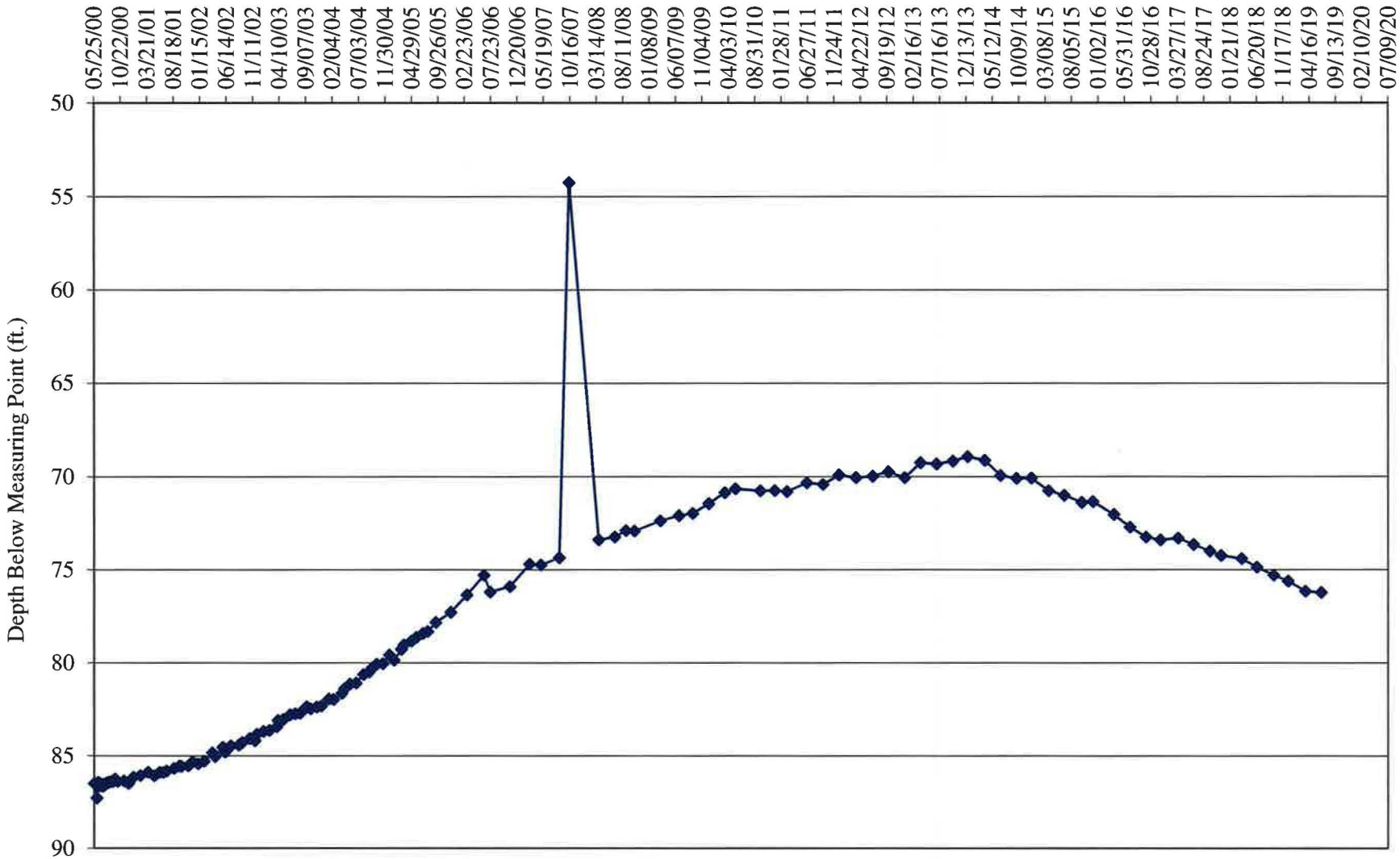
Water Levels and Data over Time
White Mesa Mill - Well TW4-6

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				99.60
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

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				99.60
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	
5,536.08				06/30/16	72.70	71.25	
5,535.54				09/29/16	73.24	71.79	
5,535.38				12/21/16	73.40	71.95	
5,535.48				03/30/17	73.30	71.85	
5,535.13				06/27/17	73.65	72.20	
5,534.78				09/28/17	74.00	72.55	
5,534.54				11/30/17	74.24	72.79	
5,534.38				03/28/18	74.40	72.95	
5,533.92				06/22/18	74.86	73.41	
5,533.49				09/25/18	75.29	73.84	
5,533.17				12/17/18	75.61	74.16	
5,532.63				03/25/19	76.15	74.70	
5,532.56				06/24/19	76.22	74.77	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				121.0
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	
5,556.15				12/06/00	64.92	63.72	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				121.0
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	
5,561.64				07/28/04	59.43	58.23	
5,543.00				08/30/04	78.07	76.87	

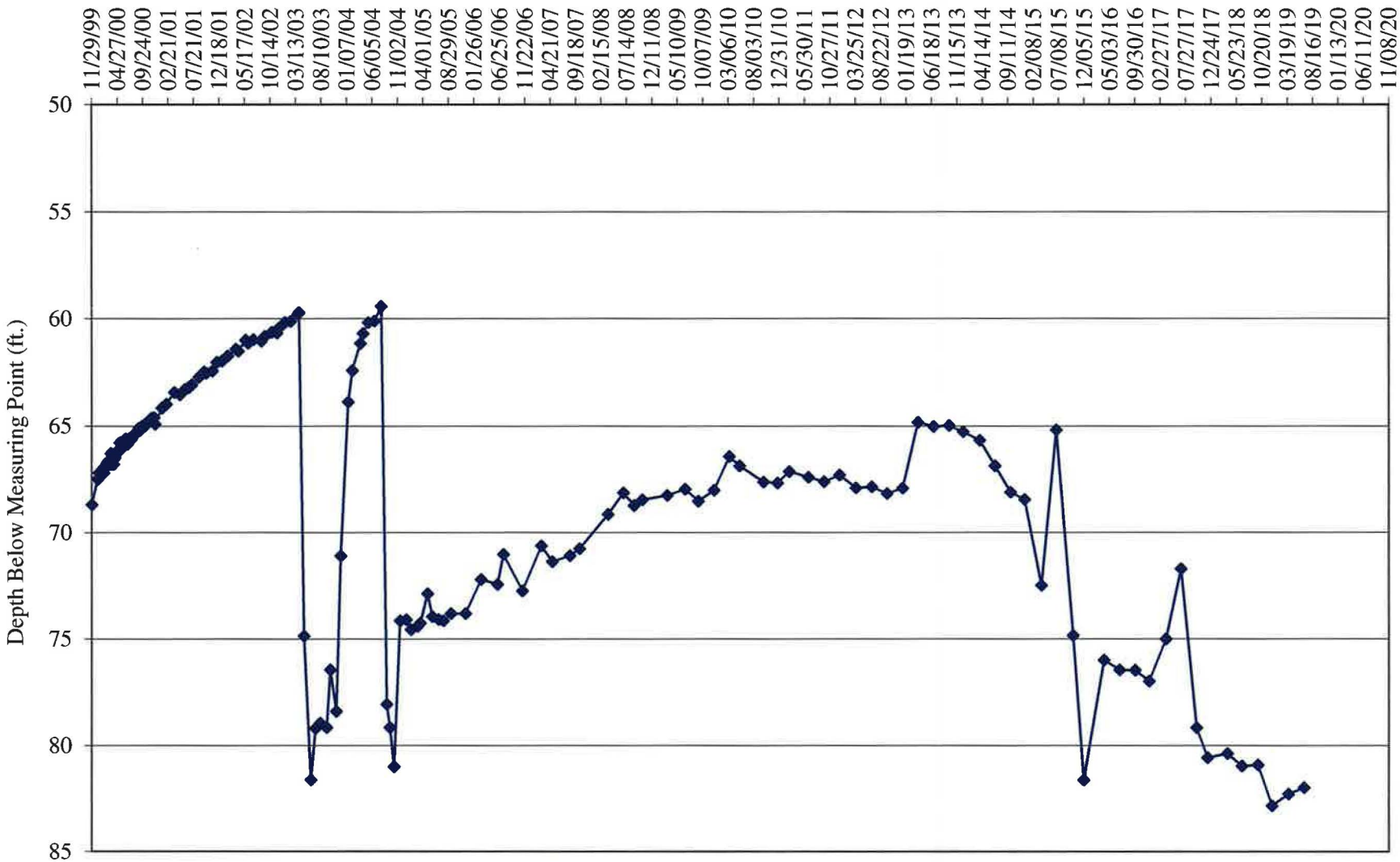
Water Levels and Data over Time
White Mesa Mill - Well TW4-7

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				121.0
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	
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				121.0
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	
5,544.62				06/30/16	76.45	75.25	
5,544.61				09/29/16	76.46	75.26	
5,544.09				12/21/16	76.98	75.78	
5,546.07				03/30/17	75.00	73.80	
5,549.36				06/27/17	71.71	70.51	
5,541.91				09/28/17	79.16	77.96	
5,540.51				11/30/17	80.56	79.36	
5,540.71				03/28/18	80.36	79.16	
5,540.12				06/22/18	80.95	79.75	
5,540.17				09/25/18	80.90	79.70	
5,538.26				12/17/18	82.81	81.61	
5,538.81				03/25/19	82.26	81.06	
5,539.11				06/24/19	81.96	80.76	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.2
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.2
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	
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.2
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	
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	

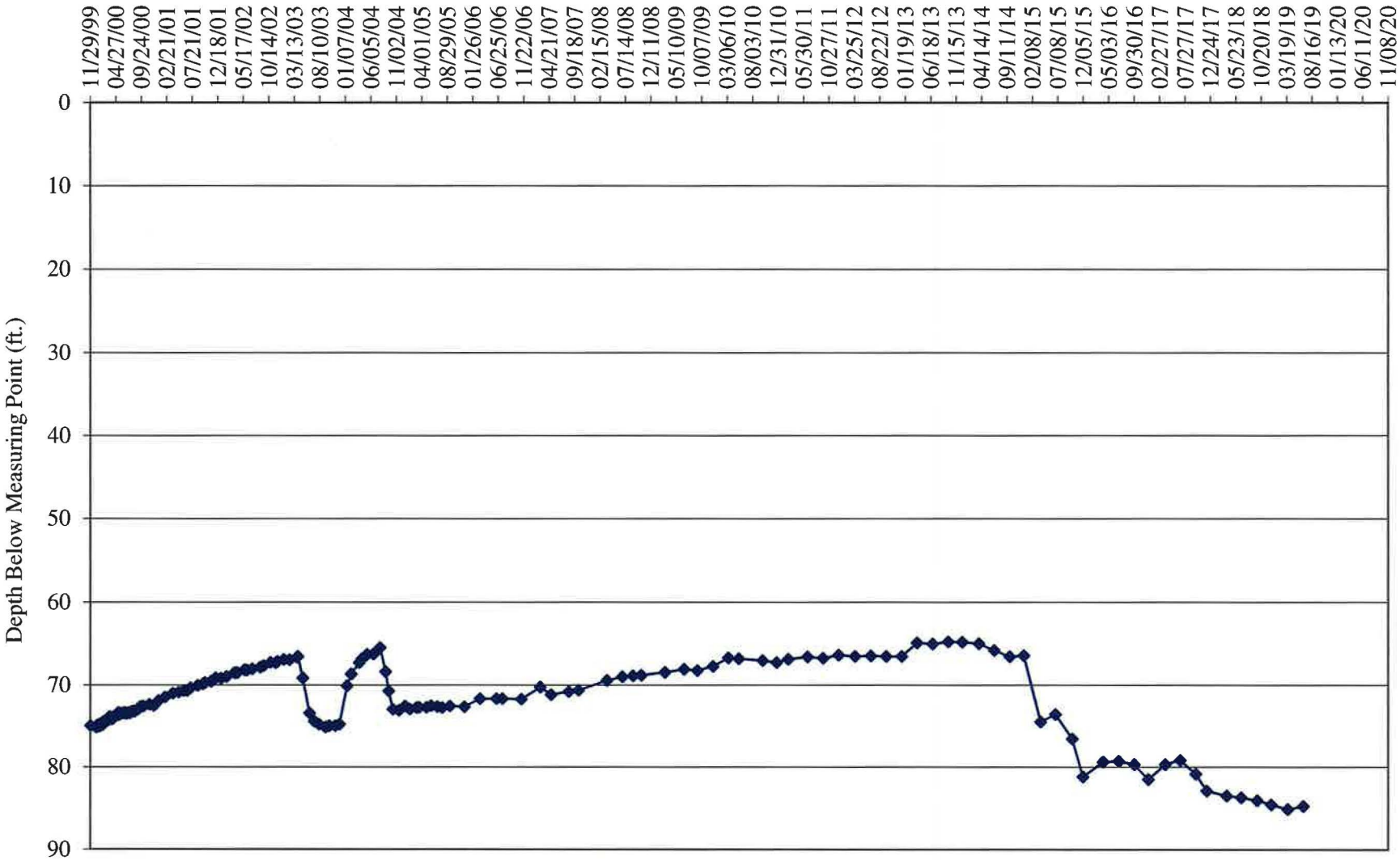
Water Levels and Data over Time
White Mesa Mill - Well TW4-8

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.2
5,553.63				12/11/09	67.77	63.17	
5,554.65				03/11/10	66.75	62.15	
5,554.57				05/11/10	66.83	62.23	
5,554.34				09/29/10	67.06	62.46	
5,554.09				12/21/10	67.31	62.71	
5,554.50				02/28/11	66.9	62.30	
5,554.79				06/21/11	66.61	62.01	
5,554.63				09/20/11	66.77	62.17	
5,555.01				12/21/11	66.39	61.79	
5,554.85				03/27/12	66.55	61.95	
5,554.90				06/28/12	66.5	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	
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	
5,542.10				06/30/16	79.30	74.70	
5,541.70				09/29/16	79.70	75.10	
5,539.90				12/21/16	81.50	76.90	
5,541.70				03/30/17	79.70	75.10	
5,542.19				06/27/17	79.21	74.61	
5,540.58				09/28/17	80.82	76.22	
5,538.52				11/30/17	82.88	78.28	
5,537.95				03/28/18	83.45	78.85	
5,537.73				06/22/18	83.67	79.07	
5,537.38				09/25/18	84.02	79.42	
5,536.86				12/17/18	84.54	79.94	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,621.40	4.60				126.2
5,536.30				03/25/19	85.10	80.50	
5,536.67				06/24/19	84.73	80.13	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				120.1
5,577.09				12/20/99	60.50	59.02	
5,577.09				01/02/00	60.50	59.02	
5,577.29				01/10/00	60.30	58.82	
5,577.09				01/17/00	60.50	59.02	
5,577.39				01/24/00	60.20	58.72	
5,577.29				02/01/00	60.30	58.82	
5,577.19				02/07/00	60.40	58.92	
5,577.69				02/14/00	59.90	58.42	
5,577.69				02/23/00	59.90	58.42	
5,577.79				03/01/00	59.80	58.32	
5,577.79				03/08/00	59.80	58.32	
5,577.89				03/15/00	59.70	58.22	
5,568.49				03/20/00	69.10	67.62	
5,578.14				03/29/00	59.45	57.97	
5,577.84				04/04/00	59.75	58.27	
5,578.04				04/13/00	59.55	58.07	
5,578.24				04/21/00	59.35	57.87	
5,578.39				04/28/00	59.20	57.72	
5,578.39				05/01/00	59.20	57.72	
5,578.79				05/11/00	58.80	57.32	
5,578.39				05/15/00	59.20	57.72	
5,578.79				05/25/00	58.80	57.32	
5,578.81				06/09/00	58.78	57.30	
5,578.89				06/16/00	58.70	57.22	
5,578.74				06/26/00	58.85	57.37	
5,578.86				07/06/00	58.73	57.25	
5,578.87				07/13/00	58.72	57.24	
5,578.84				07/18/00	58.75	57.27	
5,579.03				07/27/00	58.56	57.08	
5,579.03				08/02/00	58.56	57.08	
5,579.05				08/09/00	58.54	57.06	
5,579.04				08/15/00	58.55	57.07	
5,579.25				08/31/00	58.34	56.86	
5,579.35				09/08/00	58.24	56.76	
5,579.40				09/13/00	58.19	56.71	
5,579.46				09/20/00	58.13	56.65	
5,579.44				10/05/00	58.15	56.67	
5,579.79				11/09/00	57.80	56.32	
5,579.73				12/06/00	57.86	56.38	
5,580.01				01/03/01	57.58	56.10	
5,580.30				02/09/01	57.29	55.81	
5,580.66				03/27/01	56.93	55.45	
5,580.75				04/30/01	56.84	55.36	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				120.1
5,581.04				05/31/01	56.55	55.07	
5,581.12				06/21/01	56.47	54.99	
5,581.15				07/10/01	56.44	54.96	
5,581.51				08/20/01	56.08	54.60	
5,581.70				09/19/01	55.89	54.41	
5,581.61				10/02/01	55.98	54.50	
5,581.83				11/08/01	55.76	54.28	
5,582.17				12/03/01	55.42	53.94	
5,582.21				01/03/02	55.38	53.90	
5,582.57				02/06/02	55.02	53.54	
5,583.12				03/26/02	54.47	52.99	
5,582.77				04/09/02	54.82	53.34	
5,583.21				05/23/02	54.38	52.90	
5,582.94				06/05/02	54.65	53.17	
5,582.71				07/08/02	54.88	53.40	
5,583.67				08/23/02	53.92	52.44	
5,583.82				09/11/02	53.77	52.29	
5,584.01				10/23/02	53.58	52.10	
5,583.88				11/22/02	53.71	52.23	
5,583.81				12/03/02	53.78	52.30	
5,584.28				01/09/03	53.31	51.83	
5,584.41				02/12/03	53.18	51.70	
5,584.68				03/26/03	52.91	51.43	
5,584.49				04/02/03	53.10	51.62	
5,584.51				05/01/03	53.08	51.60	
5,583.59				06/09/03	54.00	52.52	
5,582.96				07/07/03	54.63	53.15	
5,582.98				08/04/03	54.61	53.13	
5,582.57				09/11/03	55.02	53.54	
5,582.25				10/02/03	55.34	53.86	
5,582.09				11/07/03	55.50	54.02	
5,582.48				12/03/03	55.11	53.63	
5,583.69				01/15/04	53.90	52.42	
5,583.89				02/10/04	53.70	52.22	
5,584.30				03/28/04	53.29	51.81	
5,584.59				04/12/04	53.00	51.52	
5,584.87				05/13/04	52.72	51.24	
5,584.96				06/18/04	52.63	51.15	
5,585.50				07/28/04	52.09	50.61	
5,584.81				08/30/04	52.78	51.30	
5,584.40				09/16/04	53.19	51.71	
5,583.91				10/11/04	53.68	52.20	
5,583.39				11/16/04	54.20	52.72	

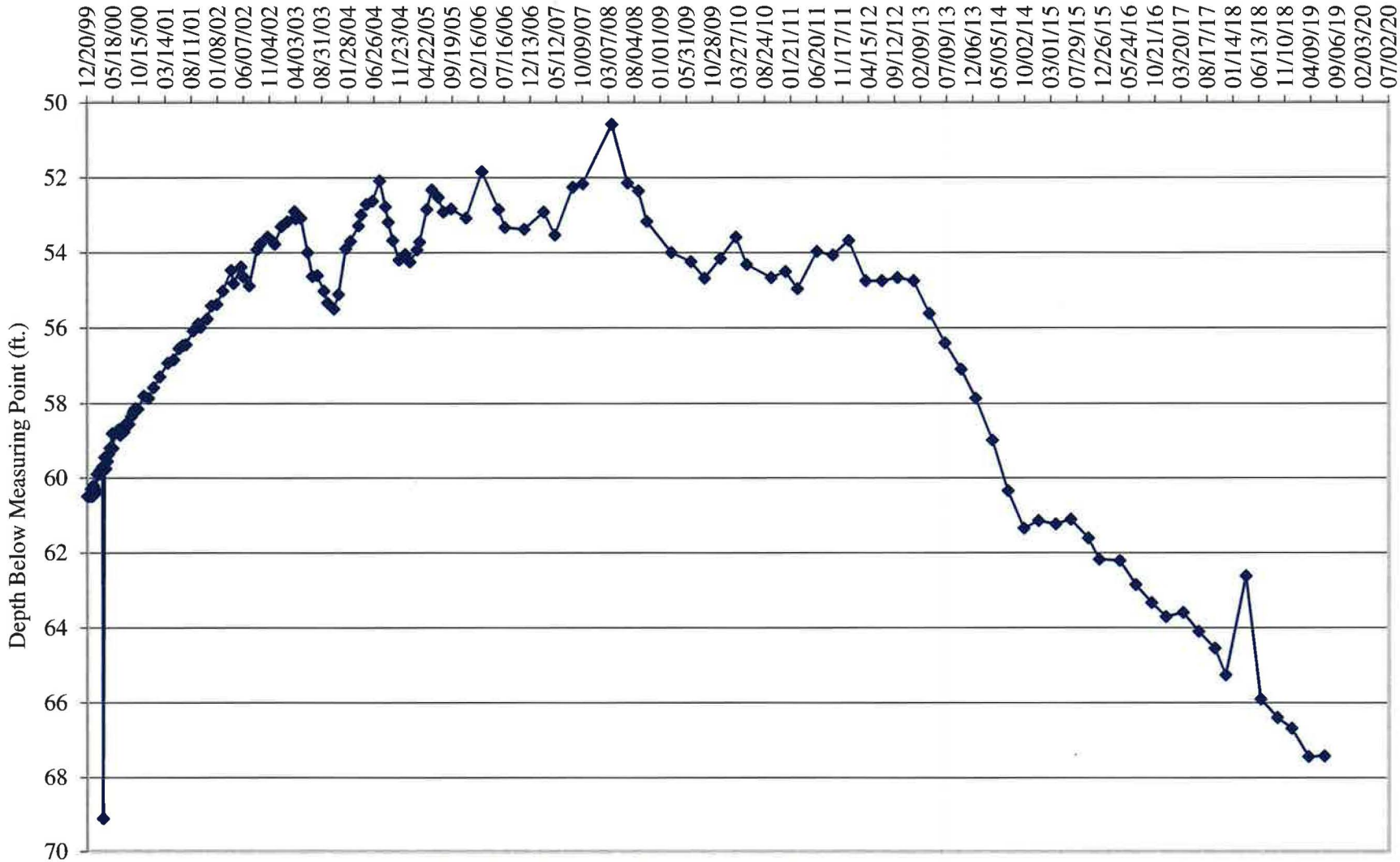
Water Levels and Data over Time
White Mesa Mill - Well TW4-9

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				120.1
5,583.54				12/22/04	54.05	52.57	
5,583.34				01/18/05	54.25	52.77	
5,583.66				02/28/05	53.93	52.45	
5,583.87				03/15/05	53.72	52.24	
5,584.74				04/26/05	52.85	51.37	
5,585.26				05/24/05	52.33	50.85	
5,585.06				06/30/05	52.53	51.05	
5,584.67				07/29/05	52.92	51.44	
5,584.75				09/12/05	52.84	51.36	
5,584.51				12/07/05	53.08	51.60	
5,585.74				03/08/06	51.85	50.37	
5,584.74				06/13/06	52.85	51.37	
5,584.26				07/18/06	53.33	51.85	
5,584.21				11/07/06	53.38	51.90	
5,584.67				02/27/07	52.92	51.44	
5,584.06				05/02/07	53.53	52.05	
5,585.33				08/14/07	52.26	50.78	
5,585.42				10/10/07	52.17	50.69	
5,587.01				03/26/08	50.58	49.10	
5,585.44				06/24/08	52.15	50.67	
5,585.23				08/26/08	52.36	50.88	
5,584.42				10/14/08	53.17	51.69	
5,583.59				03/03/09	54.00	52.52	
5,583.35				06/24/09	54.24	52.76	
5,582.91				09/10/09	54.68	53.20	
5,583.43				12/11/09	54.16	52.68	
5,584.00				03/11/10	53.59	52.11	
5,583.27				05/11/10	54.32	52.84	
5,582.92				09/29/10	54.67	53.19	
5,583.08				12/21/10	54.51	53.03	
5,582.63				02/28/11	54.96	53.48	
5,583.62				06/21/11	53.97	52.49	
5,583.52				09/20/11	54.07	52.59	
5,583.91				12/21/11	53.68	52.20	
5,582.84				03/27/12	54.75	53.27	
5,582.84				06/28/12	54.75	53.27	
5,582.92				09/27/12	54.67	53.19	
5,582.84				12/28/12	54.75	53.27	
5,581.97				03/28/13	55.62	54.14	
5,581.19				06/27/13	56.40	54.92	
5,580.50				09/27/13	57.09	55.61	
5,579.73				12/20/13	57.86	56.38	
5,578.61				03/27/14	58.98	57.50	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				120.1
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	
5,574.74				06/30/16	62.85	61.37	
5,574.26				09/29/16	63.33	61.85	
5,573.88				12/21/16	63.71	62.23	
5,573.99				03/30/17	63.60	62.12	
5,573.49				06/27/17	64.10	62.62	
5,573.05				09/28/17	64.54	63.06	
5,572.34				11/30/17	65.25	63.77	
5,574.97				03/28/18	62.62	61.14	
5571.69				06/22/18	65.90	64.42	
5571.20				09/25/18	66.39	64.91	
5570.92				12/17/18	66.67	65.19	
5570.16				03/25/19	67.43	65.95	
5570.17				06/24/19	67.42	65.94	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.99	5,634.24	2.25				113.2
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	

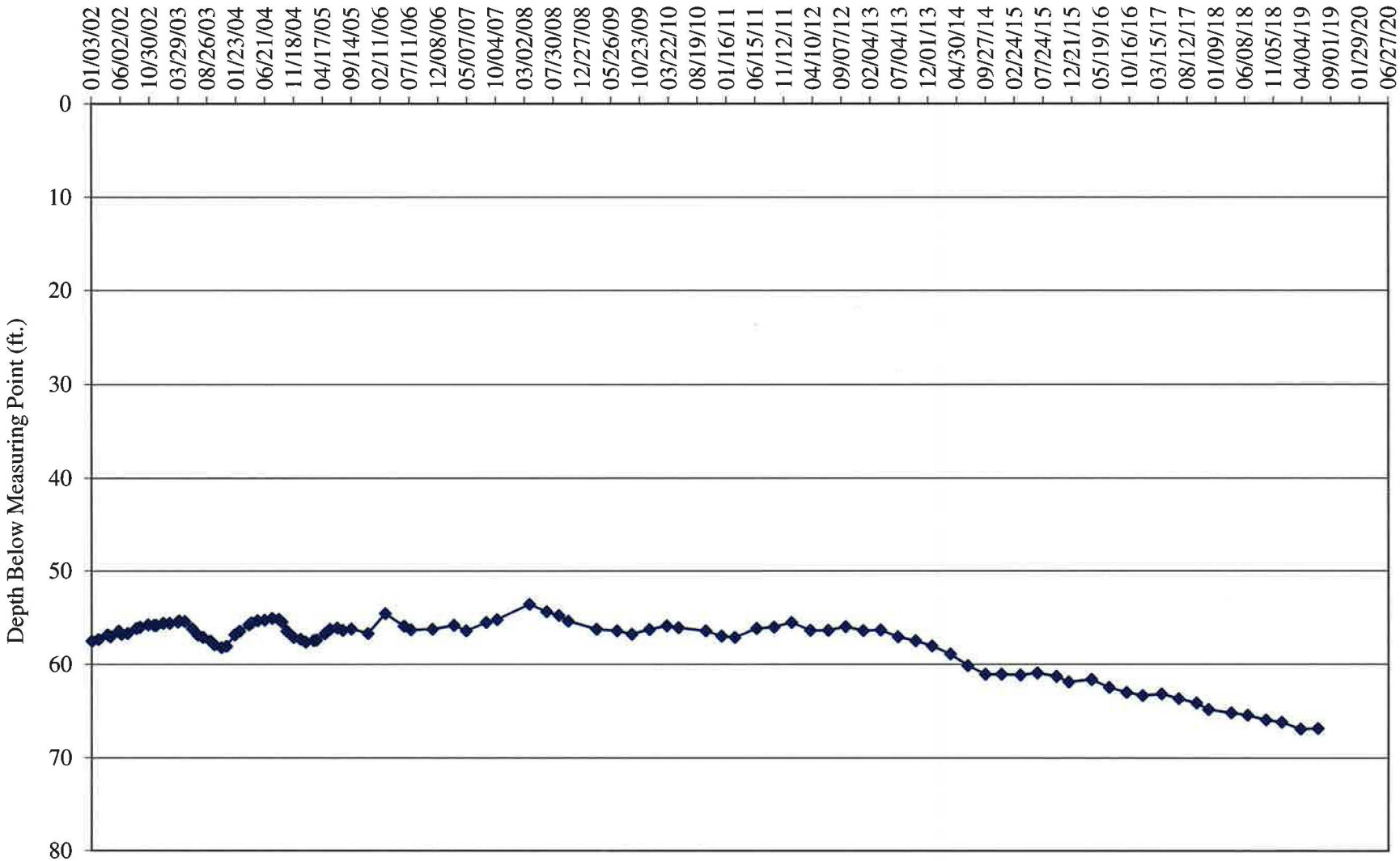
Water Levels and Data over Time
White Mesa Mill - Well TW4-10

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.99	5,634.24	2.25				113.2
5,578.02				09/12/05	56.22	53.97	
5,577.56				12/07/05	56.68	54.43	
5,579.69				03/08/06	54.55	52.30	
5,578.34				06/13/06	55.90	53.65	
5,577.94				07/18/06	56.30	54.05	
5,578.01				11/07/06	56.23	53.98	
5578.43				02/27/07	55.81	53.56	
5,577.84				05/02/07	56.40	54.15	
5,578.74				08/14/07	55.50	53.25	
5,579.04				10/10/07	55.20	52.95	
5,580.69				03/26/08	53.55	51.30	
5,579.87				06/24/08	54.37	52.12	
5,579.47				08/26/08	54.77	52.52	
5,578.87				10/14/08	55.37	53.12	
5,578.01				03/10/09	56.23	53.98	
5,577.85				06/24/09	56.39	54.14	
5,577.49				09/10/09	56.75	54.50	
5,577.98				12/11/09	56.26	54.01	
5,578.38				03/11/10	55.86	53.61	
5,578.16				05/11/10	56.08	53.83	
5,577.85				09/29/10	56.39	54.14	
5,577.28				12/21/10	56.96	54.71	
5,577.14				02/28/11	57.10	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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.99	5,634.24	2.25				113.2
5,571.79				06/30/16	62.45	60.20	
5,571.27				09/29/16	62.97	60.72	
5,570.94				12/21/16	63.3	61.05	
5,571.09				03/30/17	63.15	60.90	
5,570.59				06/27/17	63.65	61.40	
5,570.12				09/28/17	64.12	61.87	
5,569.42				11/30/17	64.82	62.57	
5,569.06				03/28/18	65.18	62.93	
5568.81				06/22/18	65.43	63.18	
5568.33				09/25/18	65.91	63.66	
5568.08				12/17/18	66.16	63.91	
5567.33				03/25/19	66.91	64.66	
5567.39				06/24/19	66.85	64.60	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				102.4
5,548.32				01/03/02	75.30	73.60	
5,548.73				02/06/02	74.89	73.19	
5,549.03				03/26/02	74.59	72.89	
5,548.84				04/09/02	74.78	73.08	
5,549.30				05/23/02	74.32	72.62	
5,549.01				06/05/02	74.61	72.91	
5,549.22				07/08/02	74.40	72.70	
5,549.44				08/23/02	74.18	72.48	
5,549.57				09/11/02	74.05	72.35	
5,549.64				10/23/02	73.98	72.28	
5,549.58				11/22/02	74.04	72.34	
5,549.62				12/03/02	74.00	72.30	
5,549.85				01/09/03	73.77	72.07	
5,549.91				02/12/03	73.71	72.01	
5,550.15				03/26/03	73.47	71.77	
5,550.01				04/02/03	73.61	71.91	
5,550.31				05/01/03	73.31	71.61	
5,550.44				06/09/03	73.18	71.48	
5,550.33				07/07/03	73.29	71.59	
5,550.35				08/04/03	73.27	71.57	
5,550.44				09/11/03	73.18	71.48	
5,550.47				10/02/03	73.15	71.45	
5,550.60				11/07/03	73.02	71.32	
5,550.60				12/03/03	73.02	71.32	
5,550.94				01/15/04	72.68	70.98	
5,551.00				02/10/04	72.62	70.92	
5,550.34				03/28/04	73.28	71.58	
5,551.54				04/12/04	72.08	70.38	
5,551.89				05/13/04	71.73	70.03	
5,551.94				06/18/04	71.68	69.98	
5,552.49				07/28/04	71.13	69.43	
5,552.74				08/30/04	70.88	69.18	
5,553.01				09/16/04	70.61	68.91	
5,553.11				10/11/04	70.51	68.81	
5,553.19				11/16/04	70.43	68.73	
5,553.53				12/22/04	70.09	68.39	
5,553.31				01/18/05	70.31	68.61	
5,553.84				02/28/05	69.78	68.08	
5,554.04				03/15/05	69.58	67.88	
5,554.23				04/26/05	69.39	67.69	
5,553.87				05/24/05	69.75	68.05	
5,554.46				06/30/05	69.16	67.46	
5,554.57				07/29/05	69.05	67.35	

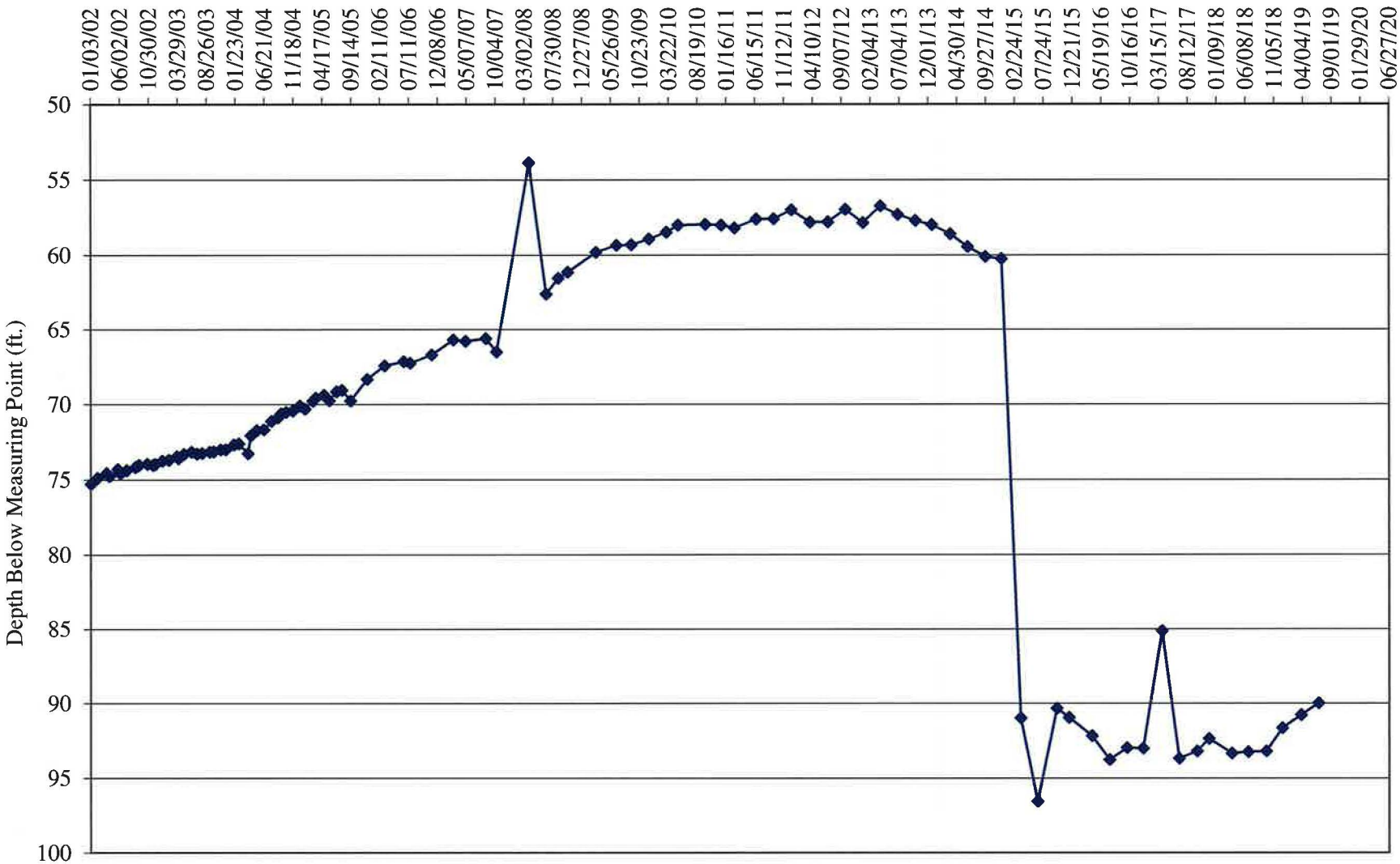
Water Levels and Data over Time
White Mesa Mill - Well TW4-11

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				102.4
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				102.4
5,529.85				06/30/16	93.77	92.07	
5,530.64				09/29/16	92.98	91.28	
5,530.61				12/21/16	93.01	91.31	
5,538.48				03/30/17	85.14	83.44	
5,529.93				06/27/17	93.69	91.99	
5,530.41				09/28/17	93.21	91.51	
5,531.26				11/30/17	92.36	90.66	
5,530.28				03/28/18	93.34	91.64	
5530.36				06/22/18	93.26	91.56	
5530.41				09/24/18	93.21	91.51	
5531.96				12/17/18	91.66	89.96	
5532.84				03/25/19	90.78	89.08	
5533.62				06/24/19	90.00	88.30	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.23	1.85				103.2
5,580.91				08/23/02	43.32	41.47	
5,581.54				09/11/02	42.69	40.84	
5,581.33				10/23/02	42.90	41.05	
5,581.47				11/22/02	42.76	40.91	
5,581.55				12/03/02	42.68	40.83	
5,582.58				01/09/03	41.65	39.80	
5,582.47				02/12/03	41.76	39.91	
5,582.71				03/26/03	41.52	39.67	
5,582.11				04/02/03	42.12	40.27	
5,582.92				05/01/03	41.31	39.46	
5,583.13				06/09/03	41.10	39.25	
5,583.21				07/07/03	41.02	39.17	
5,583.31				08/04/03	40.92	39.07	
5,583.55				09/11/03	40.68	38.83	
5,583.72				10/02/03	40.51	38.66	
5,583.77				11/07/03	40.46	38.61	
5,584.01				12/03/03	40.22	38.37	
5,584.37				01/15/04	39.86	38.01	
5,584.39				02/10/04	39.84	37.99	
5,584.51				03/28/04	39.72	37.87	
5,584.90				04/12/04	39.33	37.48	
5,584.88				05/13/04	39.35	37.50	
5,584.93				06/18/04	39.30	37.45	
5,585.36				07/28/04	38.87	37.02	
5,585.38				08/30/04	38.85	37.00	
5,585.49				09/16/04	38.74	36.89	
5,585.85				10/11/04	38.38	36.53	
5,585.91				11/16/04	38.32	36.47	
5,586.35				12/22/04	37.88	36.03	
5,586.14				01/18/05	38.09	36.24	
5,586.56				02/28/05	37.67	35.82	
5,586.95				03/15/05	37.28	35.43	
5,587.20				04/26/05	37.03	35.18	
5,587.35				05/24/05	36.88	35.03	
5,587.58				06/30/05	36.65	34.80	
5,587.58				07/29/05	36.65	34.80	
5,587.94				09/12/05	36.29	34.44	
5,588.43				12/07/05	35.80	33.95	
5,588.92				03/08/06	35.31	33.46	
5,588.34				06/13/06	35.89	34.04	
5,588.33				07/18/06	35.90	34.05	
5,584.70				11/07/06	39.53	37.68	
5588.85				02/27/07	35.38	33.53	

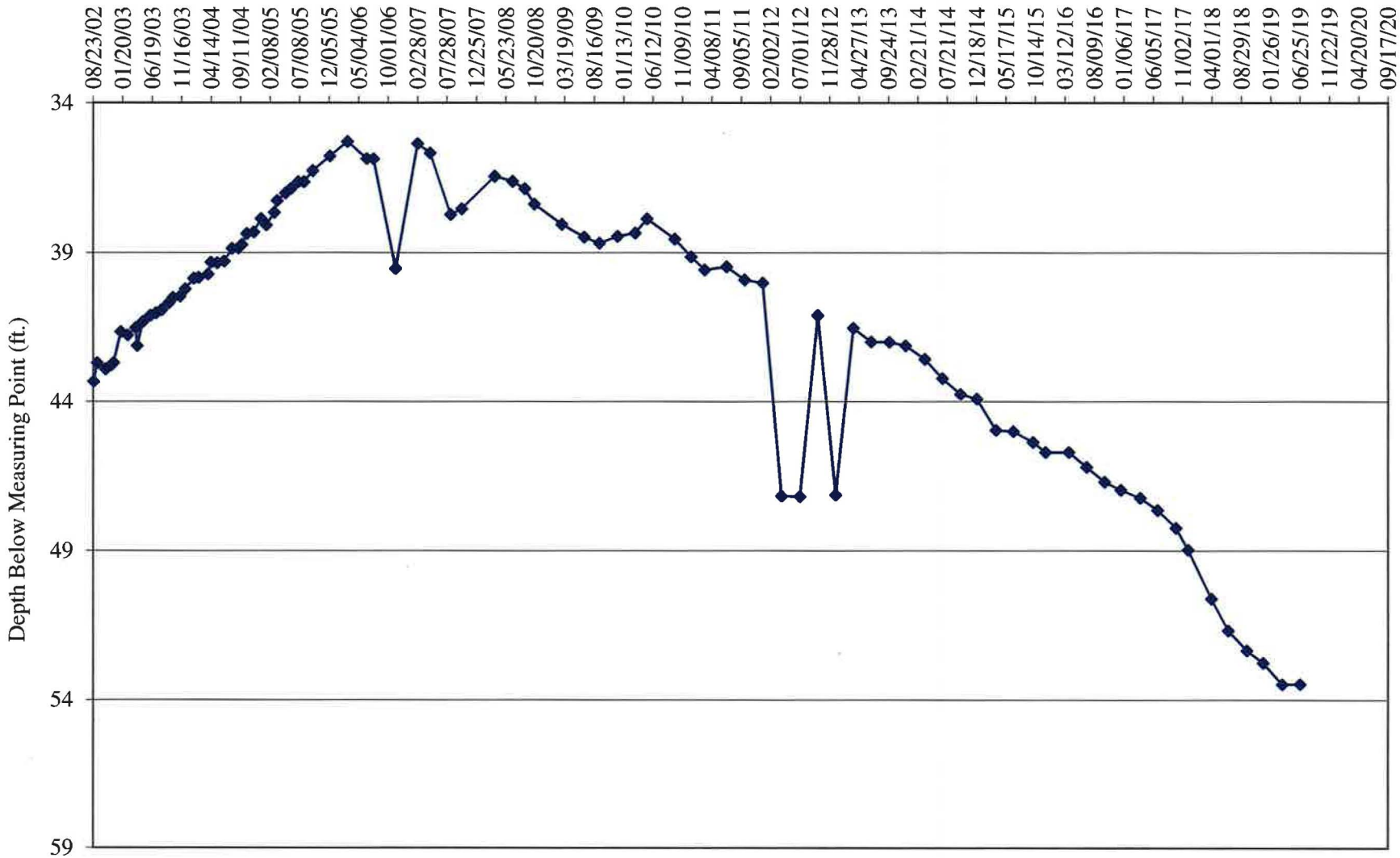
Water Levels and Data over Time
White Mesa Mill - Well TW4-12

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.23	1.85				103.2
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	
5,578.03				06/30/16	46.20	44.35	
5,577.54				09/29/16	46.69	44.84	
5,577.27				12/21/16	46.96	45.11	
5,577.00				03/30/17	47.23	45.38	
5,576.59				06/27/17	47.64	45.79	
5,576.00				09/28/17	48.23	46.38	
5,575.27				11/29/17	48.96	47.11	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.23	1.85				103.2
5,573.64				03/28/18	50.59	48.74	
5,572.58				06/22/18	51.65	49.80	
5,571.91				09/25/18	52.32	50.47	
5,571.49				12/17/18	52.74	50.89	
5,570.77				03/25/19	53.46	51.61	
5,570.78				06/24/19	53.45	51.60	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				105.7
5,529.66				08/23/02	90.28	88.43	
5,530.66				09/11/02	89.28	87.43	
5,529.10				10/23/02	90.84	88.99	
5,530.58				11/22/02	89.36	87.51	
5,530.61				12/03/02	89.33	87.48	
5,529.74				01/09/03	90.20	88.35	
5,531.03				02/12/03	88.91	87.06	
5,531.82				03/26/03	88.12	86.27	
5,524.63				04/02/03	95.31	93.46	
5,531.54				05/01/03	88.40	86.55	
5,538.46				06/09/03	81.48	79.63	
5,539.38				07/07/03	80.56	78.71	
5,540.72				08/04/03	79.22	77.37	
5,541.25				09/11/03	78.69	76.84	
5,541.34				10/02/03	78.60	76.75	
5,541.69				11/07/03	78.25	76.40	
5,541.91				12/03/03	78.03	76.18	
5,542.44				01/15/04	77.50	75.65	
5,542.47				02/10/04	77.47	75.62	
5,542.84				03/28/04	77.10	75.25	
5,543.08				04/12/04	76.86	75.01	
5,543.34				05/13/04	76.60	74.75	
5,543.40				06/18/04	76.54	74.69	
5,544.06				07/28/04	75.88	74.03	
5,544.61				08/30/04	75.33	73.48	
5,545.23				09/16/04	74.71	72.86	
5,546.20				10/11/04	73.74	71.89	
5,547.43				11/16/04	72.51	70.66	
5,548.96				12/22/04	70.98	69.13	
5,549.02				01/18/05	70.92	69.07	
5,550.66				02/28/05	69.28	67.43	
5,551.26				03/15/05	68.68	66.83	
5,552.23				04/26/05	67.71	65.86	
5,552.87				05/24/05	67.07	65.22	
5,553.42				06/30/05	66.52	64.67	
5,554.00				07/29/05	65.94	64.09	
5,555.21				09/12/05	64.73	62.88	
5,558.13				12/07/05	61.81	59.96	
5,562.93				03/08/06	57.01	55.16	
5,564.39				06/13/06	55.55	53.70	
5,562.09				07/18/06	57.85	56.00	
5,565.49				11/07/06	54.45	52.60	
5571.08				02/27/07	48.86	47.01	

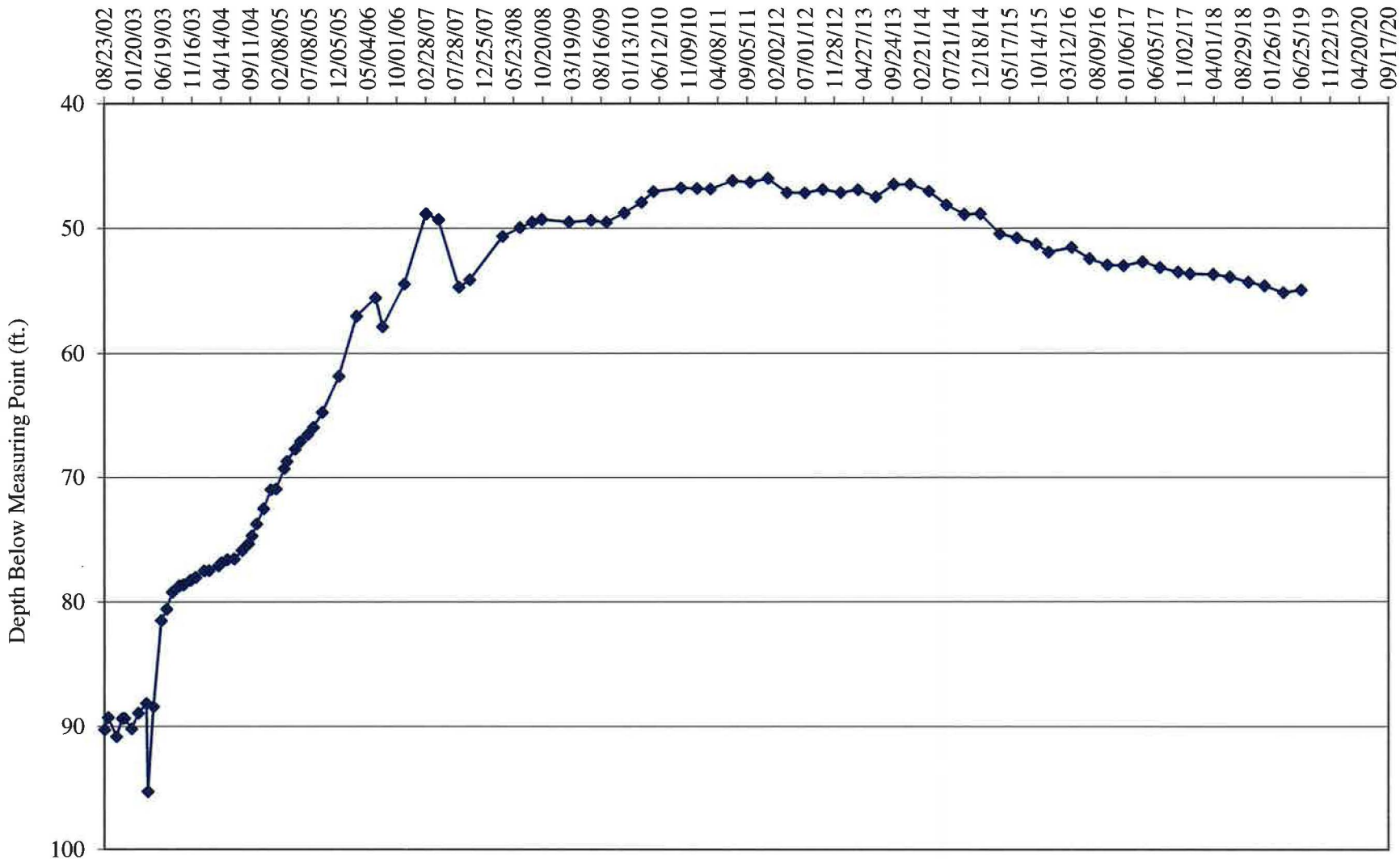
Water Levels and Data over Time
White Mesa Mill - Well TW4-13

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				105.7
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	
5,567.49				06/30/16	52.45	50.60	
5,566.99				09/29/16	52.95	51.10	
5,566.94				12/21/16	53.00	51.15	
5,567.24				03/30/17	52.70	50.85	
5,566.79				06/27/17	53.15	51.30	
5,566.43				09/28/17	53.51	51.66	
5,566.28				11/29/17	53.66	51.81	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				105.7
5,566.24				03/28/18	53.70	51.85	
5,566.03				06/22/18	53.91	52.06	
5,565.61				09/25/18	54.33	52.48	
5,565.32				12/17/18	54.62	52.77	
5,564.78				03/25/19	55.16	53.31	
5,564.99				06/24/19	54.95	53.10	

TW4-13 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				95.1
5,518.90				08/23/02	93.87	92.02	
5,519.28				09/11/02	93.49	91.64	
5,519.95				10/23/02	92.82	90.97	
5,520.32				11/22/02	92.45	90.60	
5,520.42				12/03/02	92.35	90.50	
5,520.70				01/09/03	92.07	90.22	
5,520.89				02/12/03	91.88	90.03	
5,521.12				03/26/03	91.65	89.80	
5,521.12				04/02/03	91.65	89.80	
5,521.24				05/01/03	91.53	89.68	
5,521.34				06/09/03	91.43	89.58	
5,521.36				07/07/03	91.41	89.56	
5,521.35				08/04/03	91.42	89.57	
5,521.30				09/11/03	91.47	89.62	
5,521.35				10/02/03	91.42	89.57	
5,521.36				11/07/03	91.41	89.56	
5,521.16				12/03/03	91.61	89.76	
5,521.29				01/15/04	91.48	89.63	
5,521.36				02/10/04	91.41	89.56	
5,521.46				03/28/04	91.31	89.46	
5,521.54				04/12/04	91.23	89.38	
5,521.59				05/13/04	91.18	89.33	
5,521.69				06/18/04	91.08	89.23	
5,521.71				07/28/04	91.06	89.21	
5,521.76				08/30/04	91.01	89.16	
5,521.77				09/16/04	91.00	89.15	
5,521.79				10/11/04	90.98	89.13	
5,521.80				11/16/04	90.97	89.12	
5,521.82				12/22/04	90.95	89.10	
5,521.82				01/18/05	90.95	89.10	
5,521.86				02/28/05	90.91	89.06	
5,521.85				03/15/05	90.92	89.07	
5,521.91				04/26/05	90.86	89.01	
5,521.93				05/24/05	90.84	88.99	
5,521.94				06/30/05	90.83	88.98	
5,521.84				07/29/05	90.93	89.08	
5,521.99				09/12/05	90.78	88.93	
5,522.04				12/07/05	90.73	88.88	
5,522.05				03/08/06	90.72	88.87	
5,522.27				06/13/06	90.50	88.65	
5,521.92				07/18/06	90.85	89.00	
5,520.17				11/07/06	92.60	90.75	
5522.24				02/27/07	90.53	88.68	

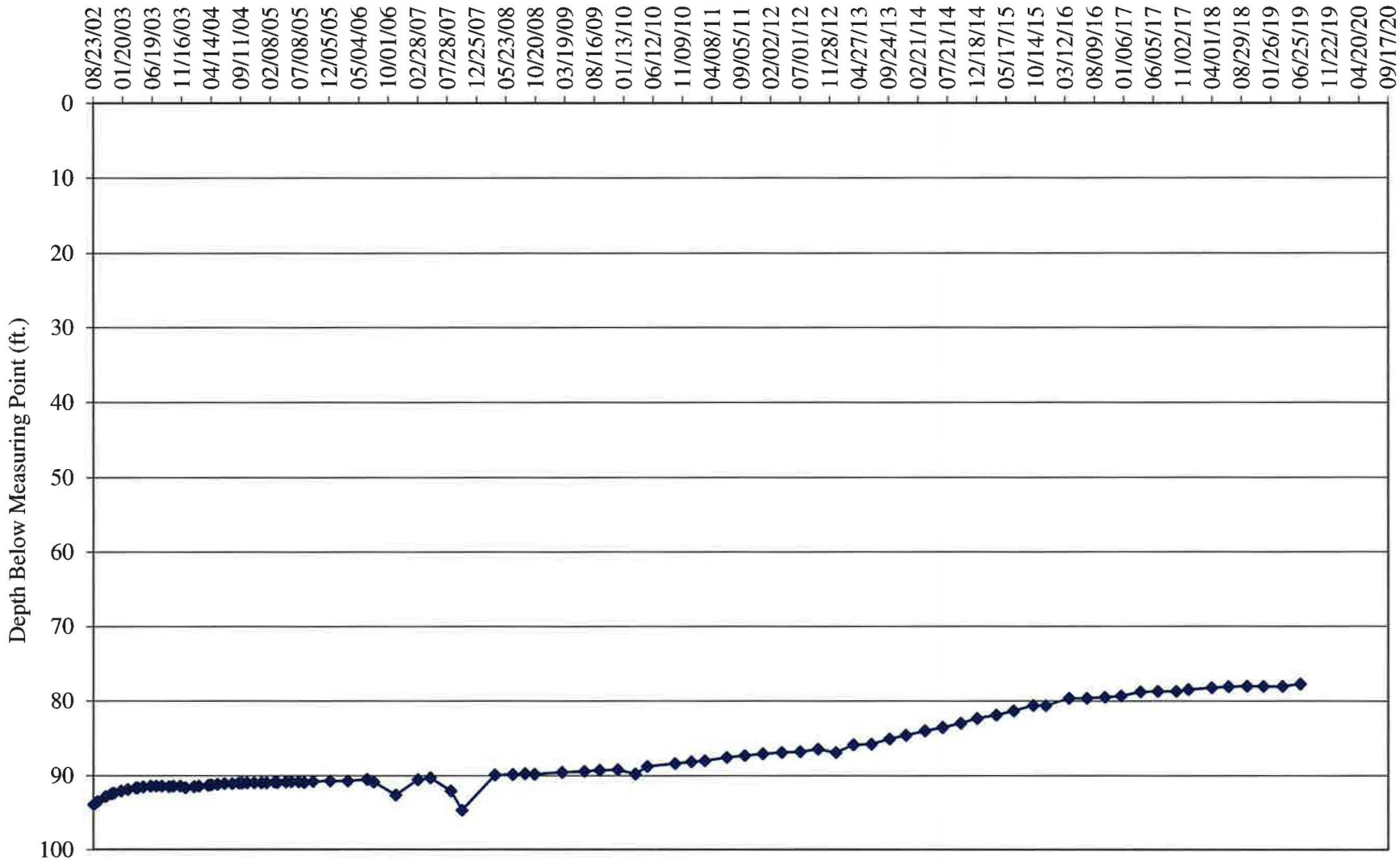
Water Levels and Data over Time
White Mesa Mill - Well TW4-14

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				95.1
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	
5,533.13				06/30/16	79.64	77.79	
5,533.24				09/29/16	79.53	77.68	
5,533.42				12/21/16	79.35	77.50	
5,533.97				03/30/17	78.80	76.95	
5,534.05				06/27/17	78.72	76.87	
5,534.07				09/28/17	78.70	76.85	
5,534.29				11/29/17	78.48	76.63	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				95.1
5,534.56				03/28/18	78.21	76.36	
5,534.67				06/22/18	78.1	76.25	
5,534.75				09/25/18	78.02	76.17	
5,534.71				12/17/18	78.06	76.21	
5,534.71				03/25/19	78.06	76.21	
5,535.04				06/24/19	77.73	75.88	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,624.15	5,625.45	1.30				121.33
5,574.75				08/23/02	50.70	49.40	
5,574.97				09/11/02	50.48	49.18	
5,575.10				10/23/02	50.35	49.05	
5,574.99				11/22/02	50.46	49.16	
5,575.28				12/03/02	50.17	48.87	
5,575.41				01/09/03	50.04	48.74	
5,575.43				02/12/03	50.02	48.72	
5,575.63				03/26/03	49.82	48.52	
5,575.91				04/02/03	49.54	48.24	
5,575.81				05/01/03	49.64	48.34	
5,572.36				06/09/03	53.09	51.79	
5,570.70				07/07/03	54.75	53.45	
5,570.29				08/04/03	55.16	53.86	
5,560.94				09/11/03	64.51	63.21	
5,560.63				10/02/03	64.82	63.52	
5,560.56				11/07/03	64.89	63.59	
5,564.77				12/03/03	60.68	59.38	
5,570.89				01/15/04	54.56	53.26	
5,572.55				02/10/04	52.90	51.60	
5,574.25				03/28/04	51.20	49.90	
5,574.77				04/12/04	50.68	49.38	
5,575.53				05/13/04	49.92	48.62	
5,575.59				06/18/04	49.86	48.56	
5,576.82				07/28/04	48.63	47.33	
5,527.47				09/16/04	97.98	96.68	
5,553.97				11/16/04	71.48	70.18	
5,562.33				12/22/04	63.12	61.82	
5,550.00				01/18/05	75.45	74.15	
5,560.02				04/26/05	65.43	64.13	
5,546.11				05/24/05	79.34	78.04	
5,556.71				06/30/05	68.74	67.44	
5,554.95				07/29/05	70.50	69.20	
5,555.48				09/12/05	69.97	68.67	
5,551.09				12/07/05	74.36	73.06	
5,552.85				03/08/06	72.60	71.30	
5,554.30				06/13/06	71.15	69.85	
5,554.87				07/18/06	70.58	69.28	
5,550.88				11/07/06	74.57	73.27	
5558.77				02/27/07	66.68	65.38	
5,548.54				05/02/07	76.91	75.61	
5,551.33				10/10/07	74.12	72.82	
5,545.56				03/26/08	79.89	78.59	
5,545.56				06/25/08	79.89	78.59	

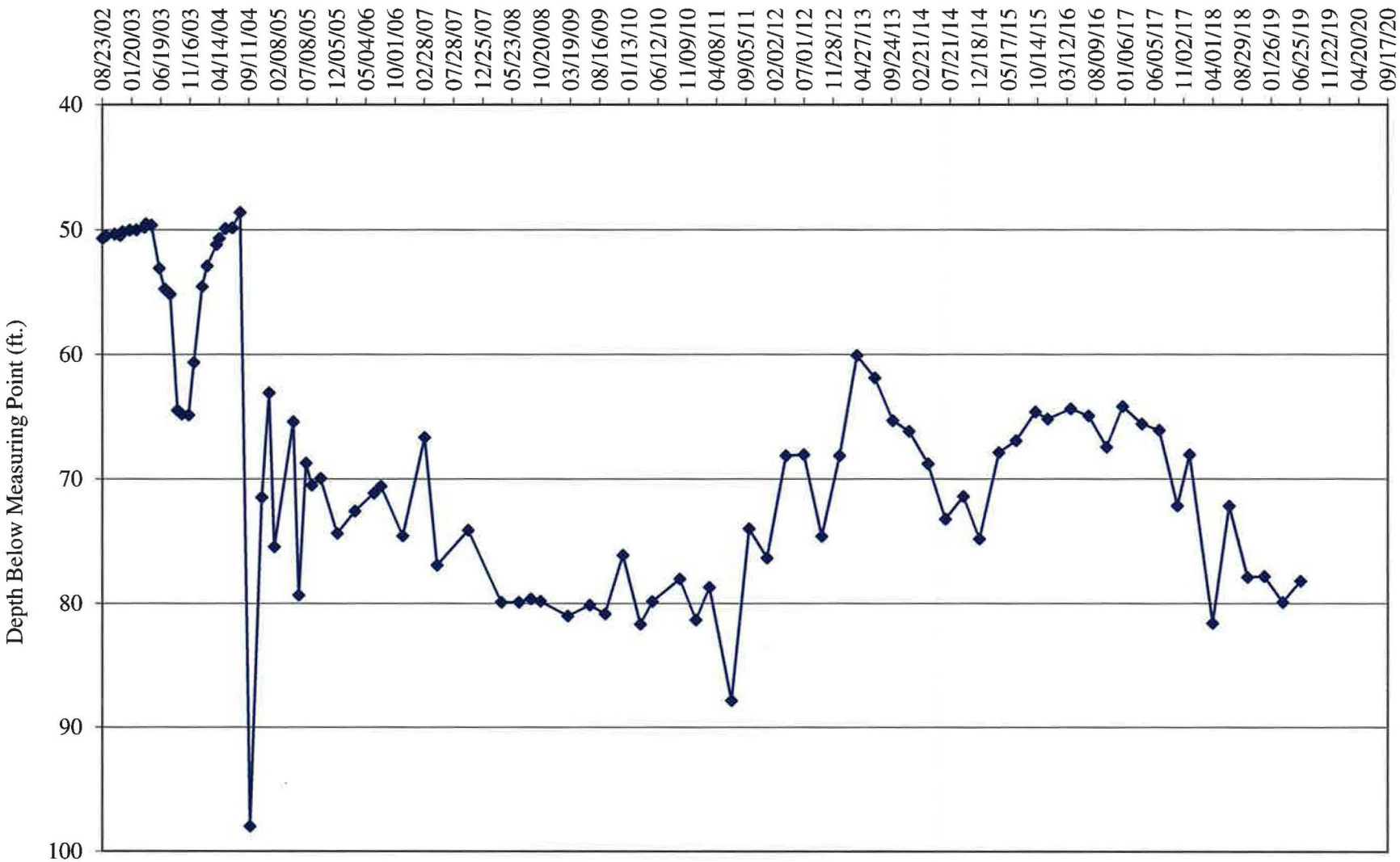
Water Levels and Data over Time
White Mesa Mill - Well MW-26

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,624.15	5,625.45	1.30				121.33
5,545.82				08/26/08	79.63	78.33	
5,545.64				10/14/08	79.81	78.51	
5,544.45				03/03/09	81.00	79.70	
5,545.32				06/24/09	80.13	78.83	
5,544.61				09/10/09	80.84	79.54	
5,549.33				12/11/09	76.12	74.82	
5,543.78				03/11/10	81.67	80.37	
5,545.61				05/11/10	79.84	78.54	
5,547.43				09/29/10	78.02	76.72	
5,544.14				12/21/10	81.31	80.01	
5,546.77				02/28/11	78.68	77.38	
5,537.60				06/21/11	87.85	86.55	
5,551.46				09/20/11	73.99	72.69	
5,549.12				12/21/11	76.33	75.03	
5,557.30				03/27/12	68.15	66.85	
5,557.38				06/28/12	68.07	66.77	
5,550.86				09/27/12	74.59	73.29	
5,557.30				12/28/12	68.15	66.85	
5,565.37				03/28/13	60.08	58.78	
5,563.55				06/27/13	61.90	60.60	
5,560.12				09/27/13	65.33	64.03	
5,559.27				12/20/13	66.18	64.88	
5,556.65				03/27/14	68.80	67.50	
5,552.23				06/25/14	73.22	71.92	
5,554.05				09/25/14	71.40	70.10	
5,550.65				12/17/14	74.80	73.50	
5,557.55				03/26/15	67.90	66.60	
5,558.51				06/22/15	66.94	65.64	
5,560.81				09/30/15	64.64	63.34	
5,560.25				12/02/15	65.20	63.90	
5,561.07				03/30/16	64.38	63.08	
5,560.51				06/30/16	64.94	63.64	
5,557.99				09/29/16	67.46	66.16	
5,561.26				12/21/16	64.19	62.89	
5,559.85				03/30/17	65.60	64.30	
5,559.35				06/27/17	66.10	64.80	
5,553.30				09/28/17	72.15	70.85	
5,557.38				11/30/17	68.07	66.77	
5,543.85				03/28/18	81.60	80.30	
5,553.27				06/22/18	72.18	70.88	
5,547.57				09/24/18	77.88	76.58	
5,547.63				12/20/18	77.82	76.52	
5,545.54				03/25/19	79.91	78.61	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,624.15	5,625.45	1.30				121.33
5,547.27				06/24/19	78.18	76.88	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.28	5,628.65	3.37				147.6
5,562.91				08/23/02	61.11	57.74	
5,563.45				09/11/02	60.57	57.20	
5,563.75				10/23/02	60.27	56.90	
5,563.68				11/22/02	60.34	56.97	
5,563.68				12/03/02	60.34	56.97	
5,564.16				01/09/03	59.86	56.49	
5,564.25				02/12/03	59.77	56.40	
5,564.53				03/26/03	59.49	56.12	
5,564.46				04/02/03	59.56	56.19	
5,564.79				05/01/03	59.23	55.86	
5,564.31				06/09/03	59.71	56.34	
5,563.29				07/07/03	60.73	57.36	
5,562.76				08/04/03	61.26	57.89	
5,561.73				09/11/03	62.29	58.92	
5,561.04				10/02/03	62.98	59.61	
5,560.39				11/07/03	63.63	60.26	
5,559.79				12/03/03	64.23	60.86	
5,561.02				01/15/04	63.00	59.63	
5,561.75				02/10/04	62.27	58.90	
5,562.98				03/28/04	61.04	57.67	
5,563.29				04/12/04	60.73	57.36	
5,564.03				05/13/04	59.99	56.62	
5,564.09				06/18/04	59.93	56.56	
5,565.08				07/28/04	58.94	55.57	
5,564.56				08/30/04	59.46	56.09	
5,563.55				09/16/04	60.47	57.10	
5,561.79				10/11/04	62.23	58.86	
5,560.38				11/16/04	63.64	60.27	
5,559.71				12/22/04	64.31	60.94	
5,559.14				01/18/05	64.88	61.51	
5,558.65				02/28/05	65.37	62.00	
5,558.54				03/15/05	65.48	62.11	
5,558.22				04/26/05	65.80	62.43	
5,558.54				05/24/05	65.48	62.11	
5,559.24				06/30/05	64.78	61.41	
5,559.38				07/29/05	64.64	61.27	
5,559.23				09/12/05	64.79	61.42	
5,557.67				12/07/05	66.35	62.98	
5,557.92				03/08/06	66.10	62.73	
5,558.47				06/13/06	65.55	62.18	
5,558.42				07/18/06	65.60	62.23	
5,558.09				11/07/06	65.93	62.56	
5,557.34				02/27/07	66.68	63.31	

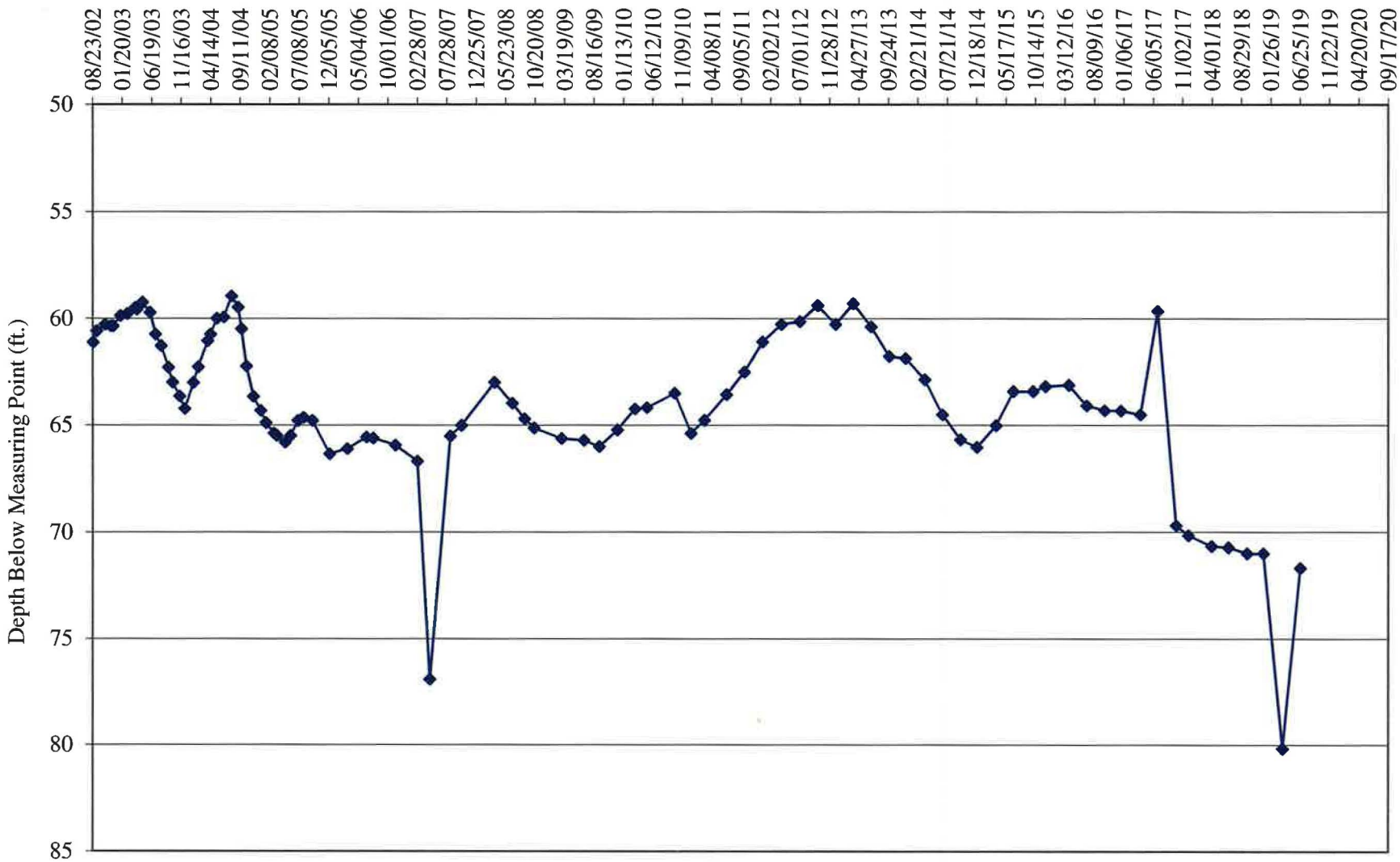
Water Levels and Data over Time
White Mesa Mill - Well TW4-16

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.28	5,628.65	3.37				147.6
5,547.11				05/02/07	76.91	73.54	
5,558.52				08/14/07	65.50	62.13	
5,559.02				10/10/07	65.00	61.63	
5,561.04				03/26/08	62.98	59.61	
5,560.06				06/24/08	63.96	60.59	
5,559.32				08/26/08	64.70	61.33	
5,558.89				10/14/08	65.13	61.76	
5,558.40				03/03/09	65.62	62.25	
5,558.32				06/24/09	65.70	62.33	
5,558.03				09/10/09	65.99	62.62	
5,558.81				12/11/09	65.21	61.84	
5,559.80				03/11/10	64.22	60.85	
5,559.85				05/11/10	64.17	60.80	
5,560.54				09/29/10	63.48	60.11	
5,558.65				12/21/10	65.37	62.00	
5,559.26				02/28/11	64.76	61.39	
5,560.48				06/21/11	63.54	60.17	
5,561.52				09/20/11	62.50	59.13	
5,562.95				12/21/11	61.07	57.70	
5,563.76				03/27/12	60.26	56.89	
5,563.90				06/28/12	60.12	56.75	
5,564.65				09/27/12	59.37	56.00	
5,563.77				12/28/12	60.25	56.88	
5,564.74				03/28/13	59.28	55.91	
5,563.66				06/27/13	60.36	56.99	
5,562.27				09/27/13	61.75	58.38	
5,562.17				12/20/13	61.85	58.48	
5,561.17				03/27/14	62.85	59.48	
5,559.53				06/25/14	64.49	61.12	
5,558.36				09/25/14	65.66	62.29	
5,558.00				12/17/14	66.02	62.65	
5,559.02				03/26/15	65.00	61.63	
5,560.62				06/22/15	63.40	60.03	
5,560.62				09/30/15	63.40	60.03	
5,560.85				12/02/15	63.17	59.80	
5,560.92				03/30/16	63.10	59.73	
5,559.95				06/30/16	64.07	60.70	
5,559.72				09/29/16	64.30	60.93	
5,559.71				12/21/16	64.31	60.94	
5,559.53				03/30/17	64.49	61.12	
5,569.02				06/27/17	59.63	56.26	
5,558.97				09/28/17	69.68	66.31	
5,558.51				11/30/17	70.14	66.77	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.28	5,628.65	3.37				147.6
5,558.00				03/29/18	70.65	67.28	
5,557.94				06/22/18	70.71	67.34	
5,557.67				09/25/18	70.98	67.61	
5,557.66				12/17/18	70.99	67.62	
5,548.49				03/25/19	80.16	76.79	
5,556.98				06/24/19	71.67	68.30	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				130.6
5,542.17				08/23/02	83.07	81.24	
5,542.39				09/11/02	82.85	81.02	
5,542.61				10/23/02	82.63	80.80	
5,542.49				11/22/02	82.75	80.92	
5,542.82				12/03/02	82.42	80.59	
5,543.03				01/09/03	82.21	80.38	
5,543.04				02/12/03	82.20	80.37	
5,543.41				03/26/03	81.83	80.00	
5,543.69				04/02/03	81.55	79.72	
5,543.77				05/01/03	81.47	79.64	
5,544.01				06/09/03	81.23	79.40	
5,544.05				07/07/03	81.19	79.36	
5,543.99				08/04/03	81.25	79.42	
5,544.17				09/11/03	81.07	79.24	
5,544.06				10/02/03	81.18	79.35	
5,544.03				11/07/03	81.21	79.38	
5,543.94				12/03/03	81.30	79.47	
5,543.98				01/15/04	81.26	79.43	
5,543.85				02/10/04	81.39	79.56	
5,544.05				03/28/04	81.19	79.36	
5,544.33				04/12/04	80.91	79.08	
5,544.55				05/13/04	80.69	78.86	
5,544.59				06/18/04	80.65	78.82	
5,545.08				07/28/04	80.16	78.33	
5,545.26				08/30/04	79.98	78.15	
5,545.48				09/16/04	79.76	77.93	
5,545.61				10/11/04	79.63	77.80	
5,545.46				11/16/04	79.78	77.95	
5,545.66				12/22/04	79.58	77.75	
5,545.33				01/18/05	79.91	78.08	
5,545.51				02/28/05	79.73	77.90	
5,545.57				03/15/05	79.67	77.84	
5,545.46				04/26/05	79.78	77.95	
5,545.45				05/24/05	79.79	77.96	
5,545.33				06/30/05	79.91	78.08	
5,545.16				07/29/05	80.08	78.25	
5,545.54				09/12/05	79.70	77.87	
5,545.77				12/07/05	79.47	77.64	
5,546.09				03/08/06	79.15	77.32	
5,545.94				06/13/06	79.30	77.47	
5,545.94				07/18/06	79.30	77.47	
5,546.24				11/07/06	79.00	77.17	
5546.81				02/27/07	78.43	76.60	

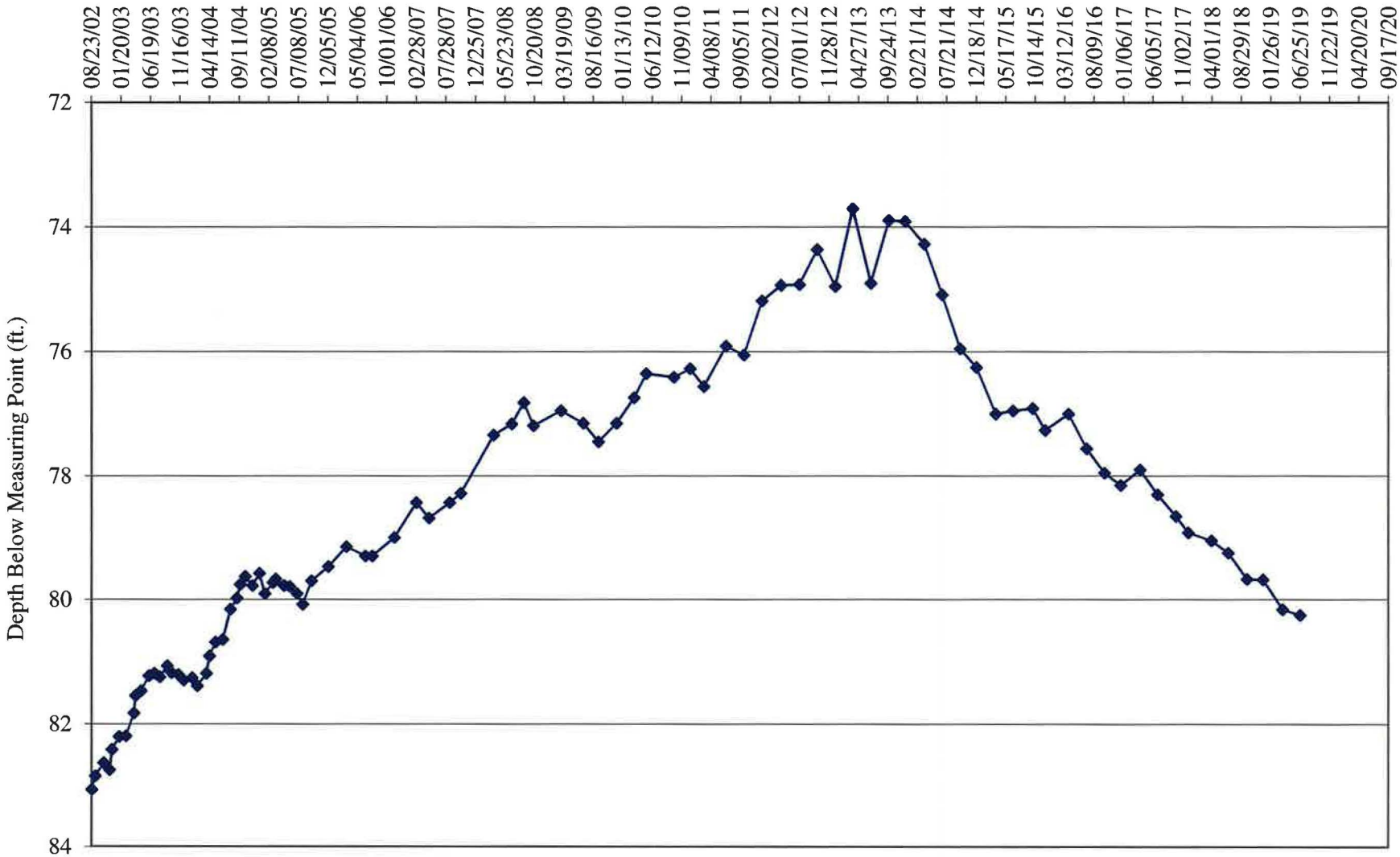
Water Levels and Data over Time
White Mesa Mill - Well MW-32

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				130.6
5546.56				05/02/07	78.68	76.85	
5546.81				08/15/07	78.43	76.6	
5546.96				10/10/07	78.28	76.45	
5547.9				03/26/08	77.34	75.51	
5548.08				06/25/08	77.16	75.33	
5548.42				08/26/08	76.82	74.99	
5548.05				10/14/08	77.19	75.36	
5548.29				03/03/09	76.95	75.12	
5548.09				06/24/09	77.15	75.32	
5547.79				09/10/09	77.45	75.62	
5548.09				12/11/09	77.15	75.32	
5,548.50				03/11/10	76.74	74.91	
5,548.89				05/11/10	76.35	74.52	
5,548.83				09/29/10	76.41	74.58	
5,548.97				12/21/10	76.27	74.44	
5,548.68				02/28/11	76.56	74.73	
5,549.33				06/21/11	75.91	74.08	
5,549.19				09/20/11	76.05	74.22	
5,550.06				12/21/11	75.18	73.35	
5,550.31				03/27/12	74.93	73.10	
5,550.32				06/28/12	74.92	73.09	
5,550.88				09/27/12	74.36	72.53	
5,550.29				12/28/12	74.95	73.12	
5,551.54				03/28/13	73.70	71.87	
5,550.34				06/27/13	74.90	73.07	
5,551.35				09/27/13	73.89	72.06	
5,551.33				12/20/13	73.91	72.08	
5,550.97				03/27/14	74.27	72.44	
5,550.16				06/25/14	75.08	73.25	
5,549.29				09/25/14	75.95	74.12	
5,548.99				12/17/14	76.25	74.42	
5,548.24				03/26/15	77.00	75.17	
5,548.29				06/22/15	76.95	75.12	
5,548.33				09/30/15	76.91	75.08	
5,547.98				12/02/15	77.26	75.43	
5,548.24				03/30/16	77.00	75.17	
5,547.68				06/30/16	77.56	75.73	
5,547.29				09/29/16	77.95	76.12	
5,547.09				12/21/16	78.15	76.32	
5,547.34				03/30/17	77.90	76.07	
5,546.94				06/27/17	78.30	76.47	
5,546.59				09/28/17	78.65	76.82	
5,546.32				11/30/17	78.92	77.09	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				130.6
5,546.19				03/29/18	79.05	77.22	
5545.99				06/22/18	79.25	77.42	
5545.57				09/26/18	79.67	77.84	
5545.56				12/17/18	79.68	77.85	
5545.08				03/26/19	80.16	78.33	
5544.99				06/24/19	80.25	78.42	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.13	5,641.28	2.15				136.9
5,585.13				08/23/02	56.15	54.00	
5,585.41				09/11/02	55.87	53.72	
5,585.47				10/23/02	55.81	53.66	
5,585.40				11/22/02	55.88	53.73	
5,585.68				12/03/02	55.60	53.45	
5,585.90				01/09/03	55.38	53.23	
5,590.79				02/12/03	50.49	48.34	
5,586.18				03/26/03	55.10	52.95	
5,586.36				04/02/03	54.92	52.77	
5,586.24				05/01/03	55.04	52.89	
5,584.93				06/09/03	56.35	54.20	
5,584.46				07/07/03	56.82	54.67	
5,584.55				08/04/03	56.73	54.58	
5,584.01				09/11/03	57.27	55.12	
5,583.67				10/02/03	57.61	55.46	
5,583.50				11/07/03	57.78	55.63	
5,584.08				12/03/03	57.20	55.05	
5,585.45				01/15/04	55.83	53.68	
5,585.66				02/10/04	55.62	53.47	
5,586.13				03/28/04	55.15	53.00	
5,586.39				04/12/04	54.89	52.74	
5,586.66				05/13/04	54.62	52.47	
5,586.77				06/18/04	54.51	52.36	
5,587.35				07/28/04	53.93	51.78	
5,586.34				08/30/04	54.94	52.79	
5,585.85				09/16/04	55.43	53.28	
5,585.22				10/11/04	56.06	53.91	
5,584.70				11/16/04	56.58	54.43	
5,584.81				12/22/04	56.47	54.32	
5,584.68				01/18/05	56.60	54.45	
5,585.02				02/28/05	56.26	54.11	
5,585.25				03/15/05	56.03	53.88	
5,586.31				04/26/05	54.97	52.82	
5,586.97				05/24/05	54.31	52.16	
5,586.58				06/30/05	54.70	52.55	
5,586.10				07/29/05	55.18	53.03	
5,586.05				09/12/05	55.23	53.08	
5,585.86				12/07/05	55.42	53.27	
5,587.13				03/08/06	54.15	52.00	
5,585.93				06/13/06	55.35	53.20	
5,585.40				07/18/06	55.88	53.73	
5,585.38				11/07/06	55.90	53.75	
5585.83				02/27/07	55.45	53.30	

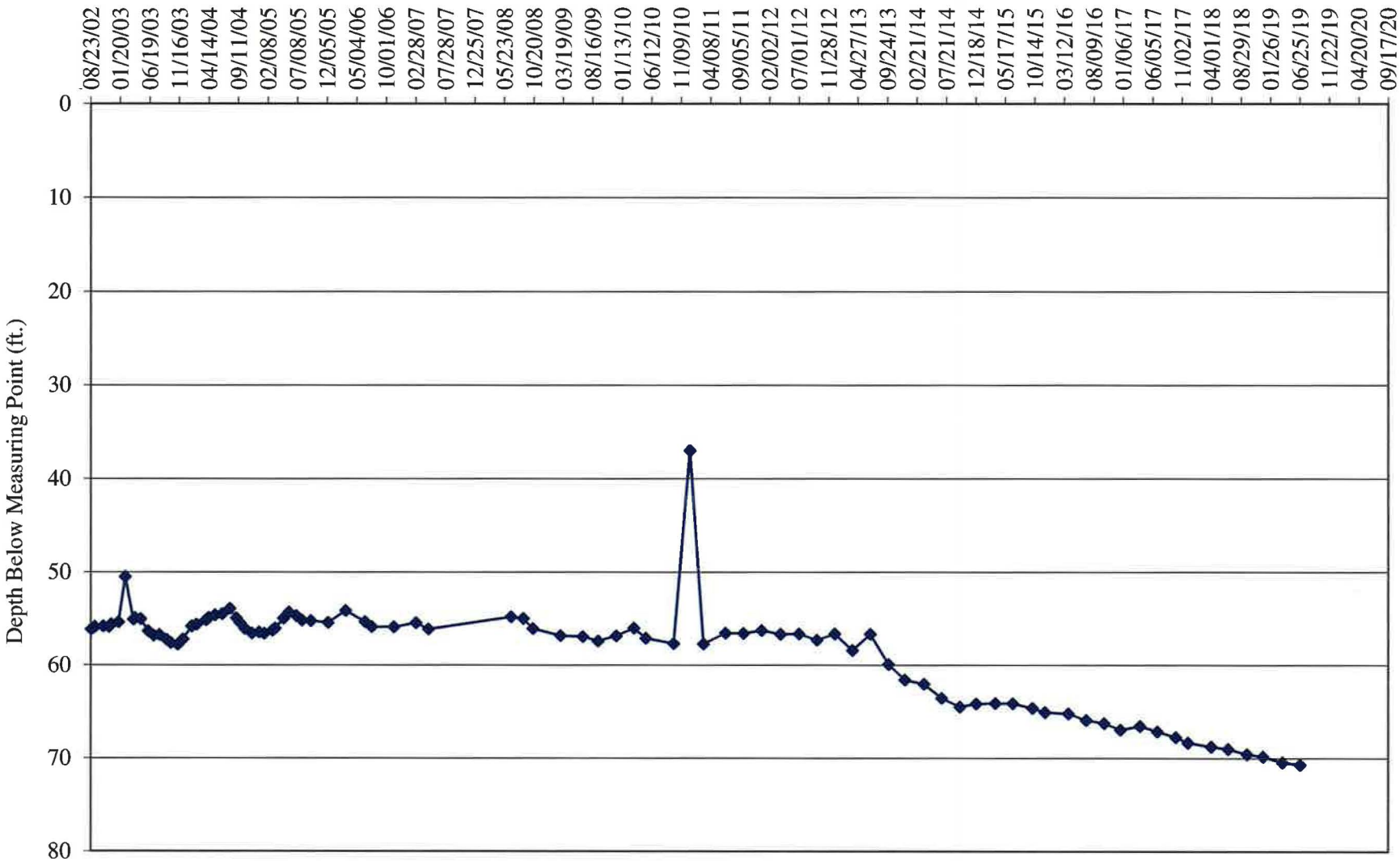
Water Levels and Data over Time
White Mesa Mill - Well TW4-18

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.13	5,641.28	2.15				136.9
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	
5,575.35				06/30/16	65.93	63.78	
5,575.02				09/29/16	66.26	64.11	
5,574.34				12/21/16	66.94	64.79	
5,574.73				03/30/17	66.55	64.40	
5,574.13				06/27/17	67.15	65.00	
5,573.51				09/28/17	67.77	65.62	
5,572.93				11/29/17	68.35	66.20	
5,572.51				03/29/18	68.77	66.62	
5,572.28				06/22/18	69.00	66.85	
5,571.72				09/26/18	69.56	67.41	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.13	5,641.28	2.15				136.9
5,571.45				12/17/18	69.83	67.68	
5,570.86				03/26/19	70.42	68.27	
5,570.60				06/24/19	70.68	68.53	

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



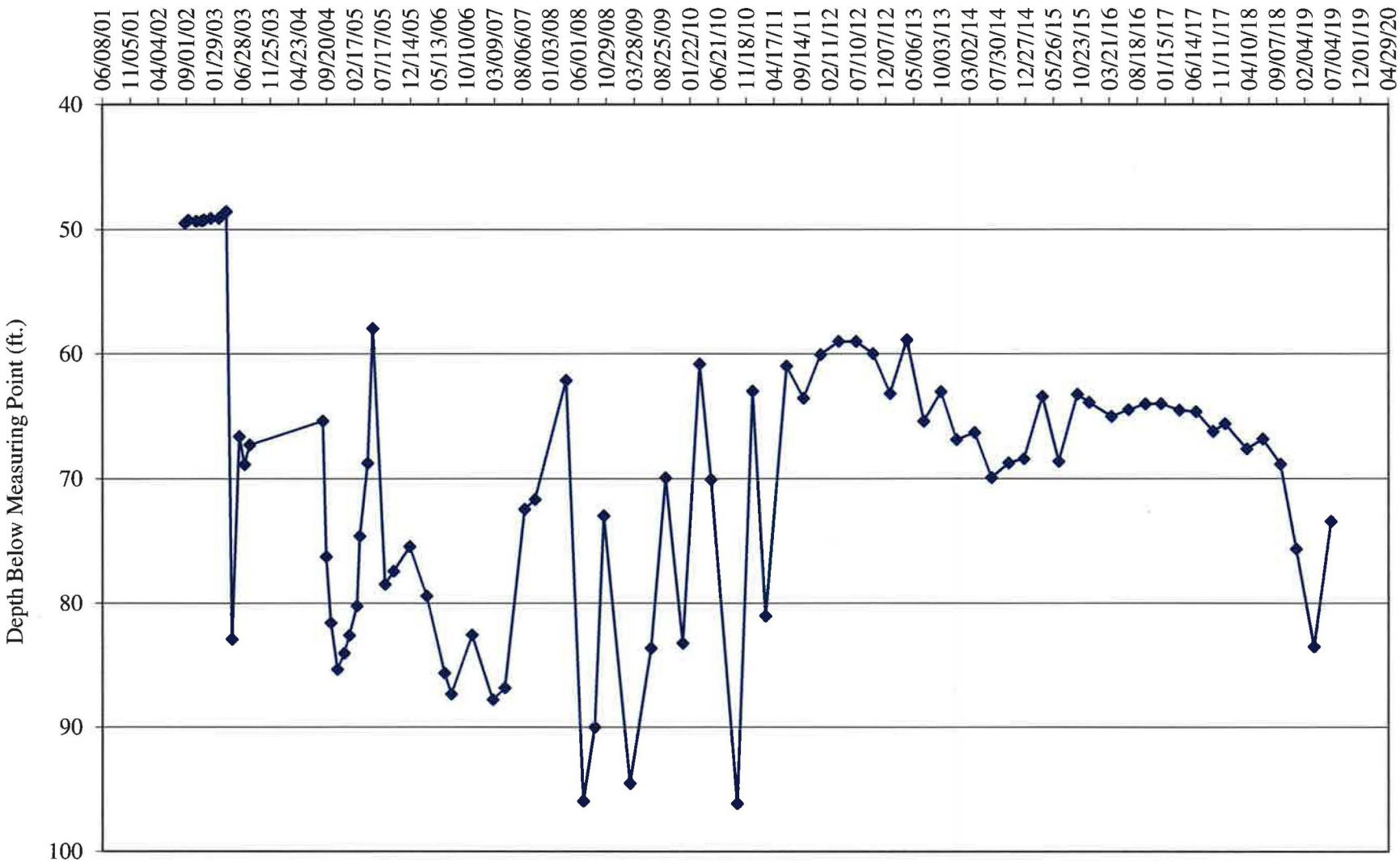
Water Levels and Data over Time
White Mesa Mill - Well TW4-19

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,629.53	5,631.39	1.86				126.86
5,581.88				08/23/02	49.51	47.65	
5,582.14				09/11/02	49.25	47.39	
5,582.06				10/23/02	49.33	47.47	
5,582.07				11/22/02	49.32	47.46	
5,582.16				12/03/02	49.23	47.37	
5,582.28				01/09/03	49.11	47.25	
5,582.29				02/21/03	49.10	47.24	
5,582.74				03/26/03	48.65	46.79	
5,582.82				04/02/03	48.57	46.71	
5,548.47				05/01/03	82.92	81.06	
5,564.76				06/09/03	66.63	64.77	
5,562.53				07/07/03	68.86	67.00	
5,564.10				08/04/03	67.29	65.43	
5,566.01				08/30/04	65.38	63.52	
5,555.16				09/16/04	76.23	74.37	
5,549.80				10/11/04	81.59	79.73	
5,546.04				11/16/04	85.35	83.49	
5,547.34				12/22/04	84.05	82.19	
5,548.77				01/18/05	82.62	80.76	
5,551.18				02/28/05	80.21	78.35	
5,556.81				03/15/05	74.58	72.72	
5,562.63				04/26/05	68.76	66.90	
5,573.42				05/24/05	57.97	56.11	
5,552.94				07/29/05	78.45	76.59	
5,554.00				09/12/05	77.39	75.53	
5,555.98				12/07/05	75.41	73.55	
5,552.00				03/08/06	79.39	77.53	
5,545.74				06/13/06	85.65	83.79	
5,544.06				07/18/06	87.33	85.47	
5,548.81				11/07/06	82.58	80.72	
5543.59				02/27/07	87.80	85.94	
5544.55				05/02/07	86.84	84.98	
5558.97				08/15/07	72.42	70.56	
5559.73				10/10/07	71.66	69.8	
5569.26				03/26/08	62.13	60.27	
5535.47				06/25/08	95.92	94.06	
5541.41				08/26/08	89.98	88.12	
5558.45				10/14/08	72.94	71.08	
5536.9				03/03/09	94.49	92.63	
5547.76				06/24/09	83.63	81.77	
5561.48				09/10/09	69.91	68.05	
5548.14				12/11/09	83.25	81.39	
5,570.58				03/11/10	60.81	58.95	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,629.53	5,631.39	1.86				126.86
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	
5,566.91				06/30/16	64.48	62.62	
5,567.38				09/29/16	64.01	62.15	
5,567.41				12/21/16	63.98	62.12	
5,566.87				03/30/17	64.52	62.66	
5,566.76				06/27/17	64.63	62.77	
5,565.19				09/28/17	66.20	64.34	
5,565.79				11/30/17	65.60	63.74	
5,563.79				03/28/18	67.60	65.74	
5,564.58				06/22/18	66.81	64.95	
5,562.56				09/24/18	68.83	66.97	
5,555.78				12/18/18	75.61	73.75	
5,547.86				03/25/19	83.53	81.67	
5,557.99				06/24/19	73.40	71.54	

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



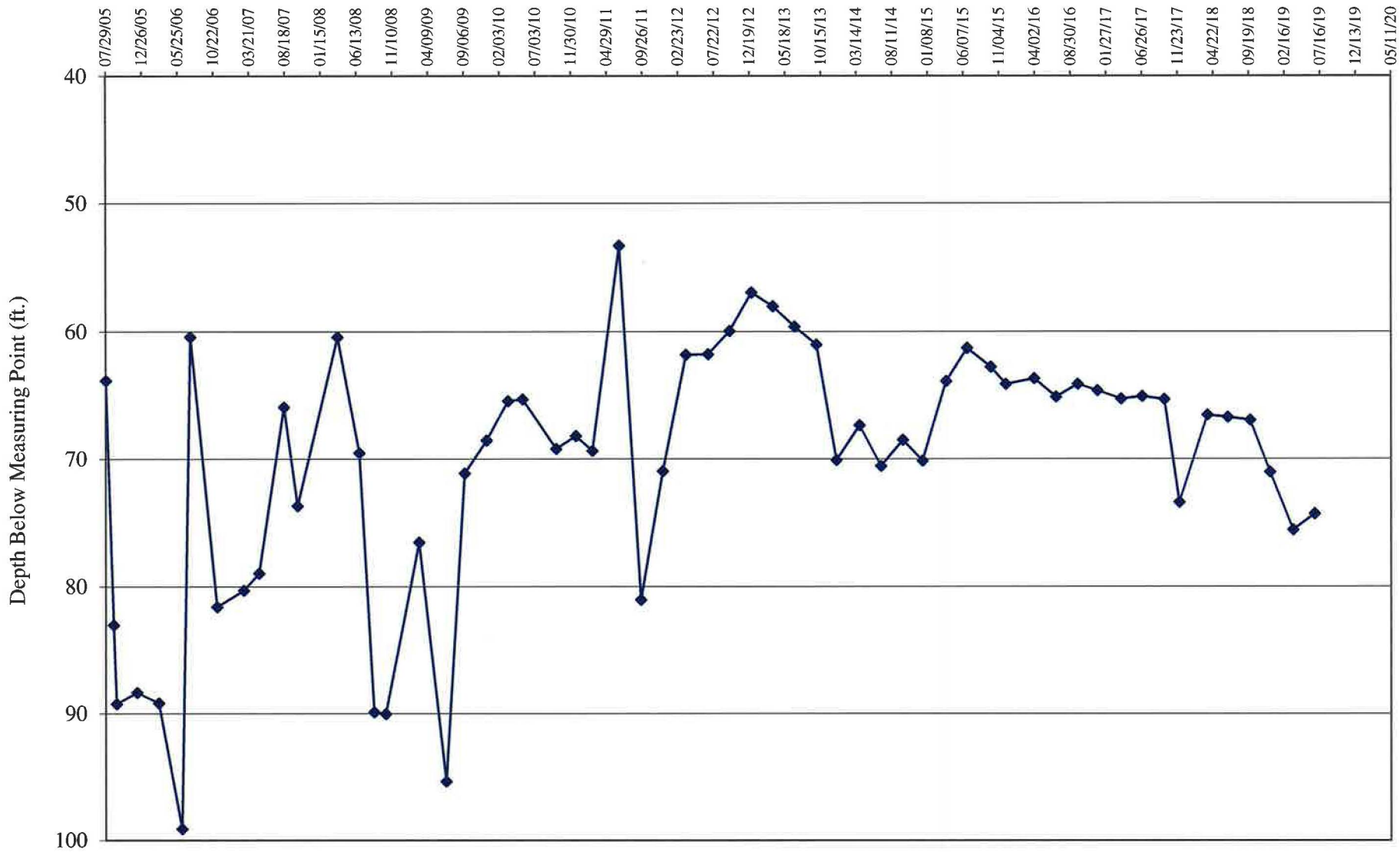
Water Levels and Data over Time
White Mesa Mill - Well TW4-20

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,628.52	5,629.53	1.01				105.9
5,565.70				07/29/05	63.83	62.82	
5,546.53				08/30/05	83.00	81.99	
5,540.29				09/12/05	89.24	88.23	
5,541.17				12/07/05	88.36	87.35	
5,540.33				03/08/06	89.20	88.19	
5,530.43				06/13/06	99.10	98.09	
5,569.13				07/18/06	60.40	59.39	
5,547.95				11/07/06	81.58	80.57	
5,549.25				02/27/07	80.28	79.27	
5,550.58				05/02/07	78.95	77.94	
5,563.60				08/14/07	65.93	64.92	
5,555.85				10/10/07	73.68	72.67	
5,569.10				03/26/08	60.43	59.42	
5,560.00				06/25/08	69.53	68.52	
5,539.64				08/26/08	89.89	88.88	
5,539.51				10/14/08	90.02	89.01	
5,553.00				03/03/09	76.53	75.52	
5,534.18				06/24/09	95.35	94.34	
5,558.39				09/10/09	71.14	70.13	
5,560.99				12/11/09	68.54	67.53	
5,564.09				03/11/10	65.44	64.43	
5,564.22				05/11/10	65.31	64.30	
5,560.33				09/29/10	69.20	68.19	
5,561.35				12/21/10	68.18	67.17	
5,560.18				02/28/11	69.35	68.34	
5,576.23				06/21/11	53.30	52.29	
5,548.50				09/20/11	81.03	80.02	
5,558.58				12/21/11	70.95	69.94	
5,567.73				03/27/12	61.80	60.79	
5,567.77				06/28/12	61.76	60.75	
5,569.58				09/27/12	59.95	58.94	
5,572.58				12/28/12	56.95	55.94	
5,571.52				03/28/13	58.01	57.00	
5,569.93				06/27/13	59.60	58.59	
5,568.53				09/27/13	61.00	59.99	
5,559.44				12/20/13	70.09	69.08	
5,562.17				03/27/14	67.36	66.35	
5,558.98				06/25/14	70.55	69.54	
5,561.03				09/25/14	68.50	67.49	
5,559.39				12/17/14	70.14	69.13	
5,565.65				03/26/15	63.88	62.87	
5,568.25				06/22/15	61.28	60.27	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,628.52	5,629.53	1.01				105.9
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	
5,564.42				06/30/16	65.11	64.10	
5,565.43				09/29/16	64.10	63.09	
5,564.93				12/21/16	64.60	63.59	
5,564.27				03/30/17	65.26	64.25	
5,564.46				06/27/17	65.07	64.06	
5,564.23				09/28/17	65.30	64.29	
5,556.13				11/30/17	73.40	72.39	
5,562.98				03/28/18	66.55	65.54	
5,562.81				06/22/18	66.72	65.71	
5,562.58				09/24/18	66.95	65.94	
5,558.49				12/17/18	71.04	70.03	
5,553.96				03/25/19	75.57	74.56	
5,555.22				06/24/19	74.31	73.30	

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



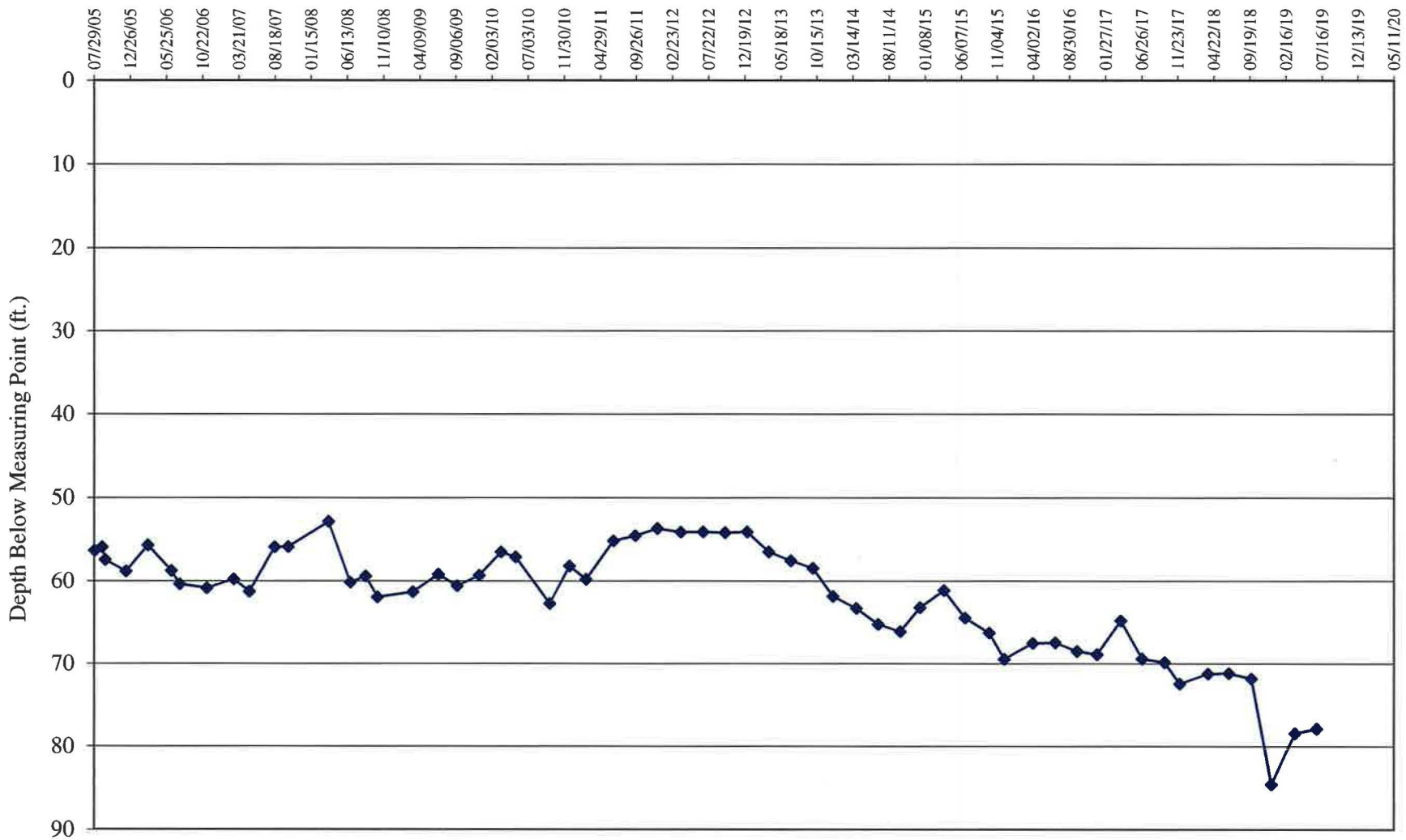
Water Levels and Data over Time
White Mesa Mill - Well TW4-21

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.20	5,639.35	1.15				118.8
5,582.98				07/29/05	56.37	55.22	
5,583.43				08/30/05	55.92	54.77	
5,581.87				09/12/05	57.48	56.33	
5,580.50				12/07/05	58.85	57.70	
5,583.64				03/08/06	55.71	54.56	
5,580.55				06/13/06	58.80	57.65	
5,578.95				07/18/06	60.40	59.25	
5,578.47				11/07/06	60.88	59.73	
5,579.53				02/27/07	59.82	58.67	
5,578.07				05/02/07	61.28	60.13	
5,583.41				08/15/07	55.94	54.79	
5,583.45				10/10/07	55.90	54.75	
5,586.47				03/26/08	52.88	51.73	
5,579.16				06/24/08	60.19	59.04	
5,579.92				08/26/08	59.43	58.28	
5,577.37				10/14/08	61.98	60.83	
5,578.00				03/10/09	61.35	60.20	
5,580.14				06/24/09	59.21	58.06	
5,578.72				09/10/09	60.63	59.48	
5,579.99				12/11/09	59.36	58.21	
5,582.81				03/11/10	56.54	55.39	
5,582.23				05/11/10	57.12	55.97	
5,576.60				09/29/10	62.75	61.60	
5,581.14				12/21/10	58.21	57.06	
5,579.53				02/28/11	59.82	58.67	
5,584.17				06/21/11	55.18	54.03	
5,584.80				09/20/11	54.55	53.40	
5,585.68				12/21/11	53.67	52.52	
5,585.24				03/27/12	54.11	52.96	
5,585.26				06/28/12	54.09	52.94	
5,585.16				09/27/12	54.19	53.04	
5,585.25				12/28/12	54.10	52.95	
5,582.84				03/28/13	56.51	55.36	
5,581.79				06/27/13	57.56	56.41	
5,580.89				09/27/13	58.46	57.31	
5,577.45				12/20/13	61.90	60.75	
5,576.01				03/27/14	63.34	62.19	
5,574.08				06/25/14	65.27	64.12	
5,573.20				09/25/14	66.15	65.00	
5,576.13				12/17/14	63.22	62.07	
5,578.19				03/26/15	61.16	60.01	
5,574.85				06/22/15	64.50	63.35	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.20	5,639.35	1.15				118.8
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	
5,571.86				06/30/16	67.49	66.34	
5,570.82				09/29/16	68.53	67.38	
5,570.45				12/21/16	68.90	67.75	
5,574.53				03/30/17	64.82	63.67	
5,569.91				06/27/17	69.44	68.29	
5,569.49				09/28/17	69.86	68.71	
5,566.87				11/30/17	72.48	71.33	
5,568.10				03/28/18	71.25	70.10	
5,568.17				06/22/18	71.18	70.03	
5,567.50				09/24/18	71.85	70.70	
5,554.80				12/17/18	84.55	83.40	
5,560.92				03/25/19	78.43	77.28	
5,561.49				06/24/19	77.86	76.71	

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

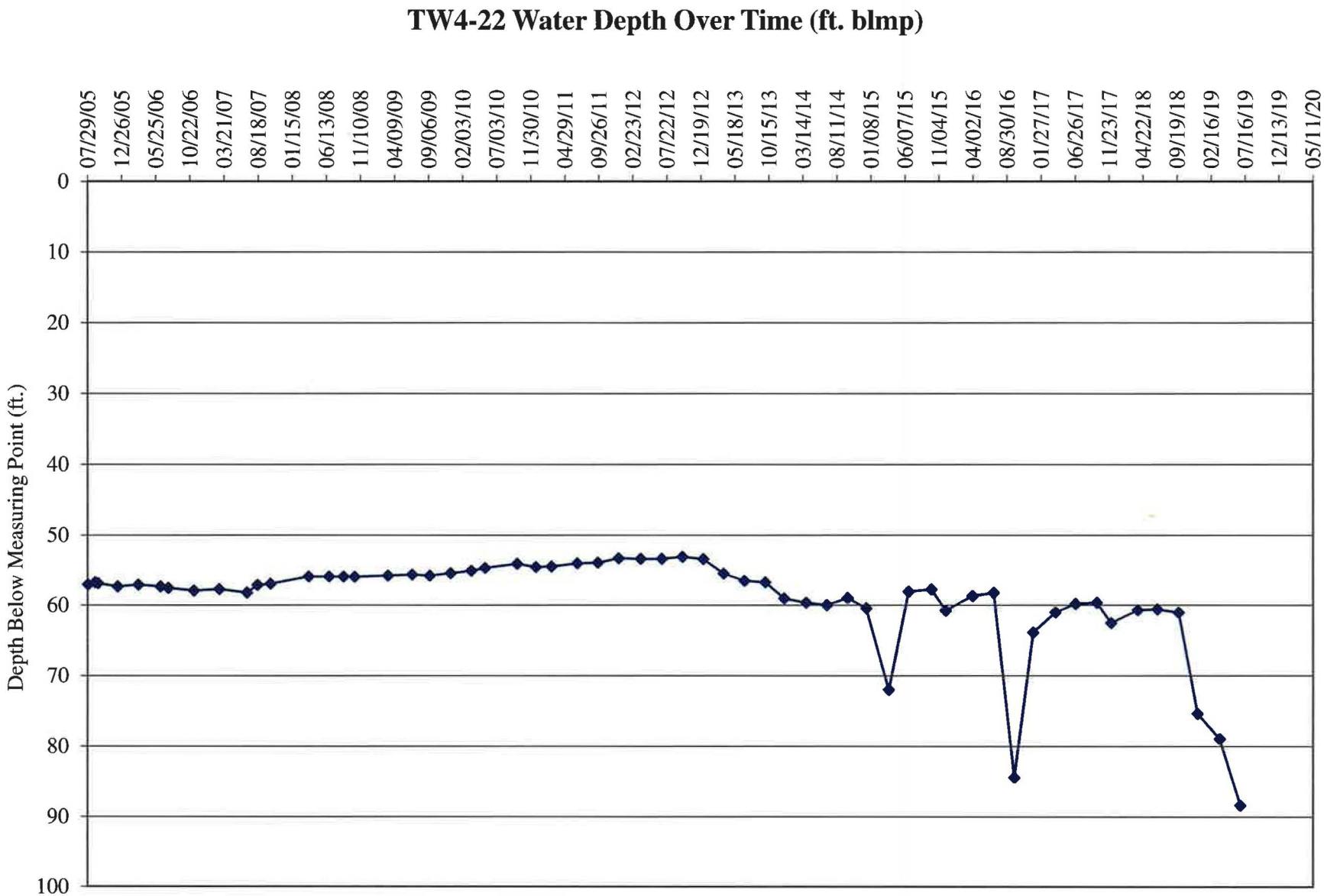


Water Levels and Data over Time
White Mesa Mill - Well TW4-22

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,629.00	1.17				114.7
5,571.89				07/29/05	57.11	55.94	
5,572.20				08/30/05	56.80	55.63	
5,572.08				09/12/05	56.92	55.75	
5,571.61				12/07/05	57.39	56.22	
5,571.85				03/08/06	57.15	55.98	
5,571.62				06/13/06	57.38	56.21	
5,571.42				07/18/06	57.58	56.41	
5,571.02				11/07/06	57.98	56.81	
5571.24				02/27/07	57.76	56.59	
5,570.75				06/29/07	58.25	57.08	
5,571.82				08/14/07	57.18	56.01	
5,571.99				10/10/07	57.01	55.84	
5,573.05				03/26/08	55.95	54.78	
5,573.04				06/24/08	55.96	54.79	
5,573.04				08/26/08	55.96	54.79	
5,573.02				10/14/08	55.98	54.81	
5,573.19				03/10/09	55.81	54.64	
5,573.32				06/24/09	55.68	54.51	
5,573.17				09/10/09	55.83	54.66	
5,573.52				12/11/09	55.48	54.31	
5,573.88				03/11/10	55.12	53.95	
5,574.29				05/11/10	54.71	53.54	
5,574.88				09/29/10	54.12	52.95	
5,574.44				12/21/10	54.56	53.39	
5,574.49				02/28/11	54.51	53.34	
5,574.97				06/21/11	54.03	52.86	
5,575.06				09/20/11	53.94	52.77	
5,575.69				12/21/11	53.31	52.14	
5,575.61				03/27/12	53.39	52.22	
5,575.62				06/28/12	53.38	52.21	
5,575.90				09/27/12	53.10	51.93	
5,575.59				12/28/12	53.41	52.24	
5,573.50				03/28/13	55.50	54.33	
5,572.45				06/27/13	56.55	55.38	
5,572.25				09/27/13	56.75	55.58	
5,569.93				12/20/13	59.07	57.90	
5,569.36				03/27/14	59.64	58.47	
5,569.02				06/25/14	59.98	58.81	
5,570.00				09/25/14	59.00	57.83	
5,568.60				12/17/14	60.40	59.23	
5,557.00				03/26/15	72.00	70.83	
5,570.93				06/22/15	58.07	56.90	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,629.00	1.17				114.7
5,571.24				09/30/15	57.76	56.59	
5,568.23				12/02/15	60.77	59.60	
5,570.28				03/30/16	58.72	57.55	
5,570.75				06/30/16	58.25	57.08	
5,544.60				09/29/16	84.40	83.23	
5,565.11				12/21/16	63.89	62.72	
5,567.99				03/30/17	61.01	59.84	
5,569.17				06/27/17	59.83	58.66	
5,569.37				09/28/17	59.63	58.46	
5,566.48				11/30/17	62.52	61.35	
5,568.30				03/28/18	60.70	59.53	
5,568.42				06/22/18	60.58	59.41	
5,567.98				09/24/18	61.02	59.85	
5,553.65				12/17/18	75.35	74.18	
5,550.09				03/25/19	78.91	77.74	
5,540.65				06/24/19	88.35	87.18	


TW4-22 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0
10
20
30
40
50
60
70
80
90
100
07/29/05
12/26/05
05/25/06
10/22/06
03/21/07
08/18/07
01/15/08
06/13/08
11/10/08
04/09/09
09/06/09
02/03/10
07/03/10
11/30/10
04/29/11
09/26/11
02/23/12
07/22/12
12/19/12
05/18/13
10/15/13
03/14/14
08/11/14
01/08/15
06/07/15
11/04/15
04/02/16
08/30/16
01/27/17
06/26/17
11/23/17
04/22/18
09/19/18
02/16/19
07/16/19
12/13/19
05/11/20

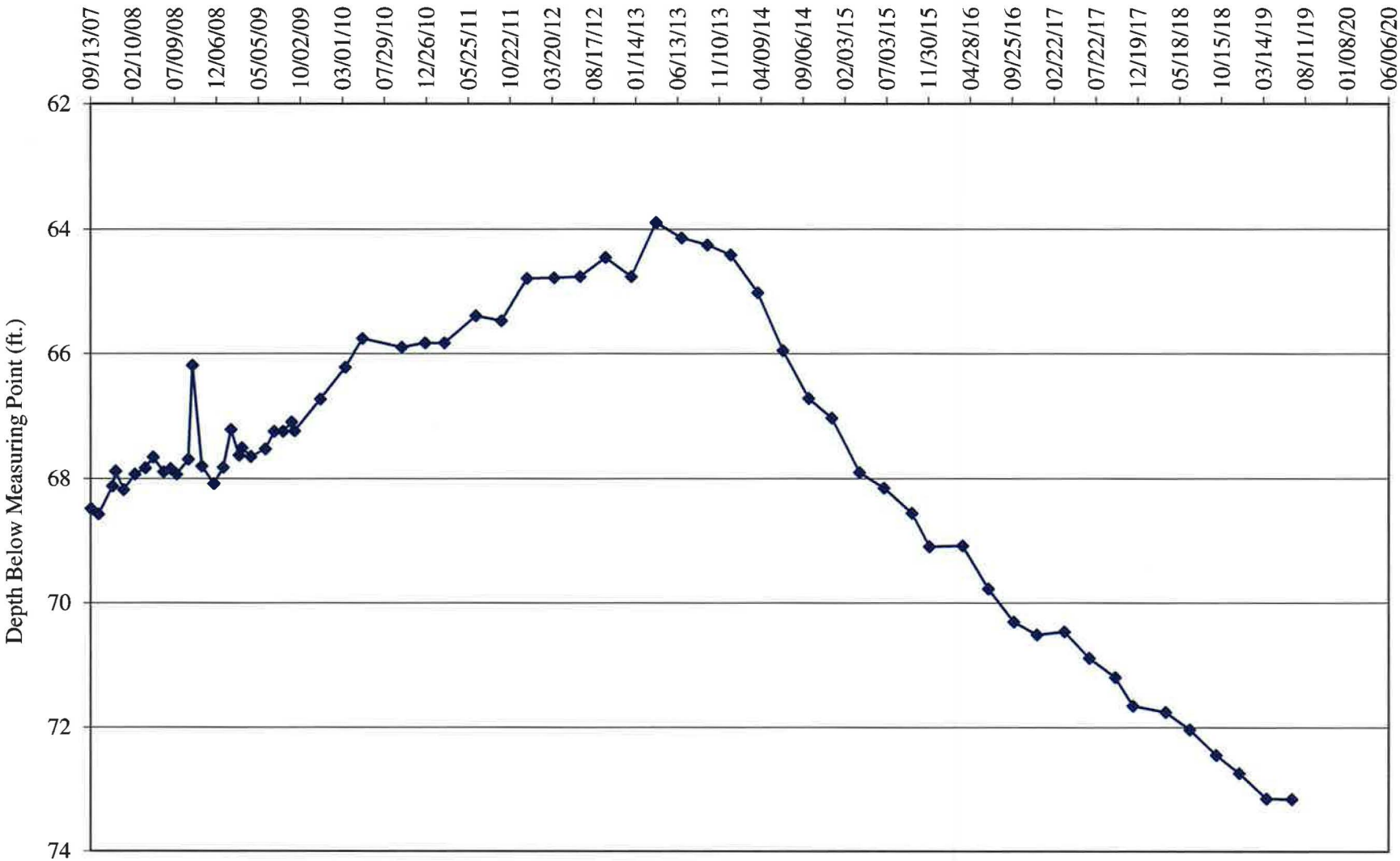
Water Levels and Data over Time
White Mesa Mill - Well TW4-23

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,605.77	5,607.37	1.60				116.4
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	
5539.48				05/30/08	67.89	66.29	
5,539.53				06/24/08	67.84	66.24	
5,539.44				07/16/08	67.93	66.33	
5,539.68				08/26/08	67.69	66.09	
5,541.18				09/10/08	66.19	64.59	
5,539.57				10/14/08	67.80	66.20	
5,539.29				11/26/08	68.08	66.48	
5,539.55				12/29/08	67.82	66.22	
5,540.15				01/26/09	67.22	65.62	
5,539.74				02/24/09	67.63	66.03	
5,539.86				03/06/09	67.51	65.91	
5,539.72				04/07/09	67.65	66.05	
5,539.84				05/29/09	67.53	65.93	
5,540.12				06/30/09	67.25	65.65	
5,540.12				07/31/09	67.25	65.65	
5,540.27				08/31/09	67.10	65.50	
5,540.13				09/10/09	67.24	65.64	
5,540.64				12/11/09	66.73	65.13	
5,541.15				03/11/10	66.22	64.62	
5,541.61				05/11/10	65.76	64.16	
5,541.47				09/29/10	65.90	64.30	
5,541.54				12/21/10	65.83	64.23	
5,541.54				02/28/11	65.83	64.23	
5,541.98				06/21/11	65.39	63.79	
5,541.90				09/20/11	65.47	63.87	
5,542.58				12/21/11	64.79	63.19	
5,542.59				03/27/12	64.78	63.18	
5,542.61				06/28/12	64.76	63.16	
5,542.92				09/27/12	64.45	62.85	
5,542.61				12/28/12	64.76	63.16	
5,543.48				03/28/13	63.89	62.29	
5,543.23				06/27/13	64.14	62.54	
5,543.12				09/27/13	64.25	62.65	
5,542.96				12/20/13	64.41	62.81	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,605.77	5,607.37	1.60				116.4
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	
5,537.60				06/30/16	69.77	68.17	
5,537.07				09/29/16	70.30	68.70	
5,536.86				12/21/16	70.51	68.91	
5,536.91				03/30/17	70.46	68.86	
5,536.49				06/27/17	70.88	69.28	
5,536.18				09/28/17	71.19	69.59	
5,535.72				11/30/17	71.65	70.05	
5,535.62				03/28/18	71.75	70.15	
5,535.34				06/22/18	72.03	70.43	
5,534.93				09/25/18	72.44	70.84	
5,534.64				12/17/18	72.73	71.13	
5,534.23				03/25/19	73.14	71.54	
5,534.22				06/24/19	73.15	71.55	

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

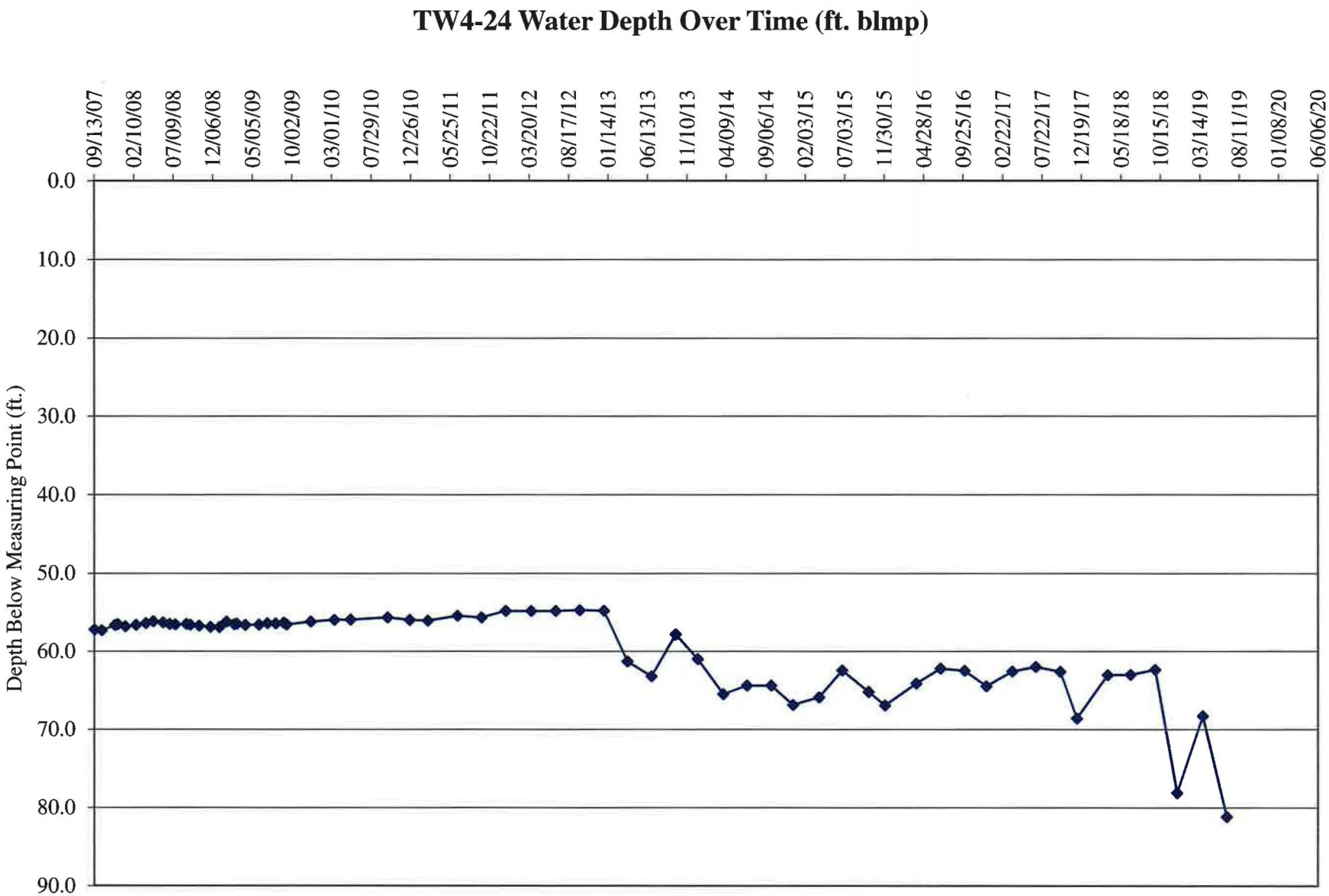


Water Levels and Data over Time
White Mesa Mill - Well TW4-24

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.70	5,627.83	2.13				114.8
5,570.61				09/13/07	57.22	55.09	
5,570.53				10/10/07	57.30	55.17	
5,571.16				11/30/07	56.67	54.54	
5,571.30				12/11/07	56.53	54.40	
5,571.03				01/08/08	56.80	54.67	
5,571.22				02/18/08	56.61	54.48	
5,571.43				03/26/08	56.40	54.27	
5,571.68				04/23/08	56.15	54.02	
5571.52				05/30/08	56.31	54.18	
5,571.34				06/24/08	56.49	54.36	
5,571.28				07/16/08	56.55	54.42	
5,571.34				08/26/08	56.49	54.36	
5,571.23				09/10/08	56.60	54.47	
5,571.12				10/14/08	56.71	54.58	
5,570.95				11/26/08	56.88	54.75	
5,570.92				12/29/08	56.91	54.78	
5,571.65				01/26/09	56.18	54.05	
5,571.31				02/24/09	56.52	54.39	
5,571.37				03/06/09	56.46	54.33	
5,571.21				04/07/09	56.62	54.49	
5,571.23				05/29/09	56.60	54.47	
5,571.42				06/30/09	56.41	54.28	
5,571.38				07/31/09	56.45	54.32	
5,571.48				08/31/09	56.35	54.22	
5,571.28				09/10/09	56.55	54.42	
5,571.64				12/11/09	56.19	54.06	
5,571.86				03/11/10	55.97	53.84	
5,571.91				05/11/10	55.92	53.79	
5,572.18				09/29/10	55.65	53.52	
5,571.86				12/21/10	55.97	53.84	
5,571.78				02/28/11	56.05	53.92	
5,572.40				06/21/11	55.43	53.30	
5,572.19				09/20/11	55.64	53.51	
5,573.02				12/21/11	54.81	52.68	
5,573.03				03/27/12	54.80	52.67	
5,573.02				06/28/12	54.81	52.68	
5,573.13				09/27/12	54.70	52.57	
5,573.05				12/28/12	54.78	52.65	
5,566.53				03/28/13	61.30	59.17	
5,564.63				06/27/13	63.20	61.07	
5,570.01				09/27/13	57.82	55.69	
5,566.85				12/20/13	60.98	58.85	
5,562.33				03/27/14	65.50	63.37	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.70	5,627.83	2.13				114.8
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	
5,565.64				06/30/16	62.19	60.06	
5,565.35				09/29/16	62.48	60.35	
5,563.33				12/21/16	64.50	62.37	
5,565.27				03/30/17	62.56	60.43	
5,565.86				06/27/17	61.97	59.84	
5,565.21				09/28/17	62.62	60.49	
5,559.24				11/30/17	68.59	66.46	
5,564.78				03/28/18	63.05	60.92	
5,564.83				06/22/18	63.00	60.87	
5,565.47				09/24/18	62.36	60.23	
5,549.72				12/17/18	78.11	75.98	
5,559.52				03/25/19	68.31	66.18	
5,546.68				06/24/19	81.15	79.02	


TW4-24 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
09/13/07
02/10/08
07/09/08
12/06/08
05/05/09
10/02/09
03/01/10
07/29/10
12/26/10
05/25/11
10/22/11
03/20/12
08/17/12
01/14/13
06/13/13
11/10/13
04/09/14
09/06/14
02/03/15
07/03/15
11/30/15
04/28/16
09/25/16
02/22/17
07/22/17
12/19/17
05/18/18
10/15/18
03/14/19
08/11/19
01/08/20
06/06/20

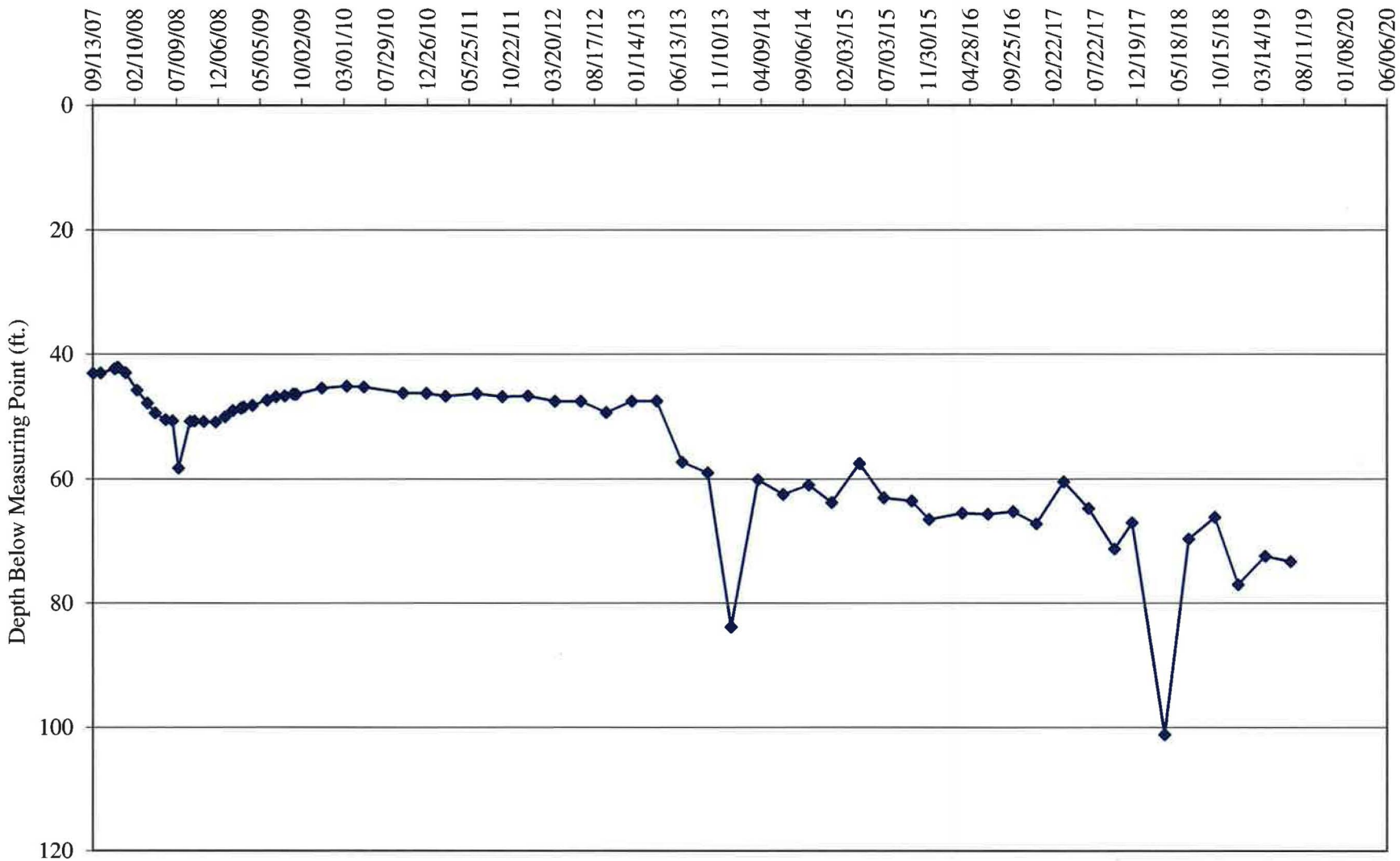
Water Levels and Data over Time
White Mesa Mill - Well TW4-25

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,642.82	5,644.91	2.09				136.7
5,601.86				09/13/07	43.05	40.96	
5,601.89				10/10/07	43.02	40.93	
5,602.57				11/30/07	42.34	40.25	
5,602.82				12/11/07	42.09	40.00	
5,601.94				01/08/08	42.97	40.88	
5,599.13				02/18/08	45.78	43.69	
5,597.11				03/26/08	47.80	45.71	
5,595.51				04/23/08	49.40	47.31	
5594.42				05/30/08	50.49	48.40	
5,594.26				06/24/08	50.65	48.56	
5,586.67				07/16/08	58.24	56.15	
5,594.17				08/26/08	50.74	48.65	
5,594.23				09/10/08	50.68	48.59	
5,594.12				10/14/08	50.79	48.70	
5,594.06				11/26/08	50.85	48.76	
5,594.87				12/29/08	50.04	47.95	
5,595.89				01/26/09	49.02	46.93	
5,596.27				02/24/09	48.64	46.55	
5,596.47				03/06/09	48.44	46.35	
5,596.74				04/07/09	48.17	46.08	
5,597.55				05/29/09	47.36	45.27	
5,598.11				06/30/09	46.80	44.71	
5,598.22				07/31/09	46.69	44.60	
5,598.52				08/31/09	46.39	44.30	
5,598.49				09/10/09	46.42	44.33	
5,599.48				12/11/09	45.43	43.34	
5,599.75				03/11/10	45.16	43.07	
5,599.63				05/11/10	45.28	43.19	
5,598.68				09/29/10	46.23	44.14	
5,598.66				12/21/10	46.25	44.16	
5,598.18				02/28/11	46.73	44.64	
5,598.61				06/21/11	46.30	44.21	
5,598.08				09/20/11	46.83	44.74	
5,598.23				12/21/11	46.68	44.59	
5,597.41				03/27/12	47.50	45.41	
5,597.41				06/28/12	47.50	45.41	
5,595.60				09/27/12	49.31	47.22	
5,597.41				12/28/12	47.50	45.41	
5,597.43				03/28/13	47.48	45.39	
5,587.61				06/27/13	57.30	55.21	
5,585.91				09/27/13	59.00	56.91	
5,561.00				12/20/13	83.91	81.82	

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

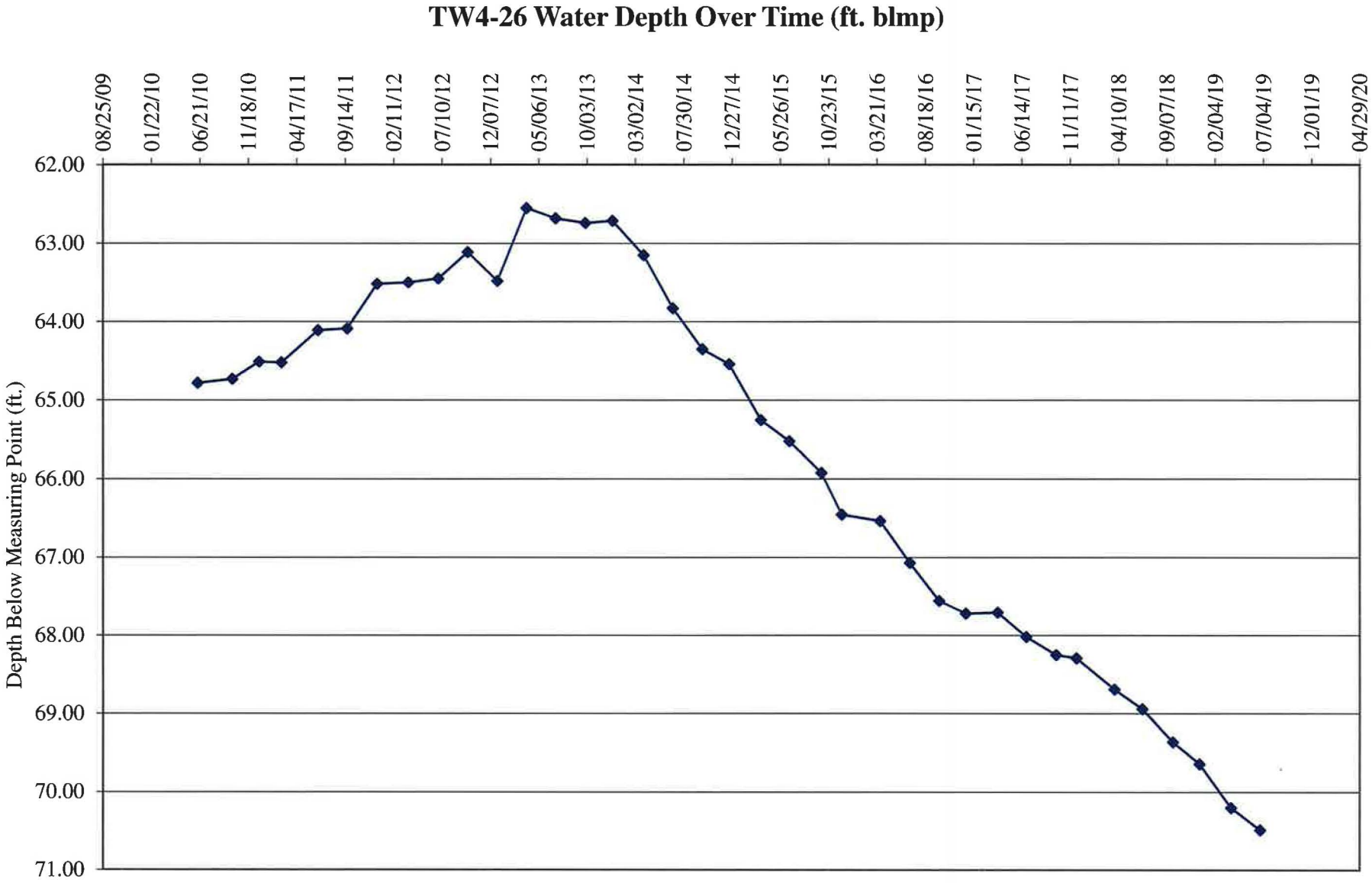
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,642.82	5,644.91	2.09				136.7
5,584.79				03/27/14	60.12	58.03	
5,582.44				06/25/14	62.47	60.38	
5,583.95				09/25/14	60.96	58.87	
5,581.13				12/17/14	63.78	61.69	
5,587.40				03/26/15	57.51	55.42	
5,581.91				06/22/15	63.00	60.91	
5,581.40				09/30/15	63.51	61.42	
5,578.42				12/02/15	66.49	64.40	
5,579.42				03/30/16	65.49	63.40	
5,579.25				06/30/16	65.66	63.57	
5,579.68				09/29/16	65.23	63.14	
5,577.73				12/21/16	67.18	65.09	
5,584.44				03/30/17	60.47	58.38	
5,580.19				06/27/17	64.72	62.63	
5,573.63				09/28/17	71.28	69.19	
5,577.88				11/30/17	67.03	64.94	
5,543.71				03/28/18	101.20	99.11	
5,575.26				06/22/18	69.65	67.56	
5,578.78				09/24/18	66.13	64.04	
5,567.86				12/17/18	77.05	74.96	
5,572.46				03/25/19	72.45	70.36	
5,571.58				06/24/19	73.33	71.24	

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



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

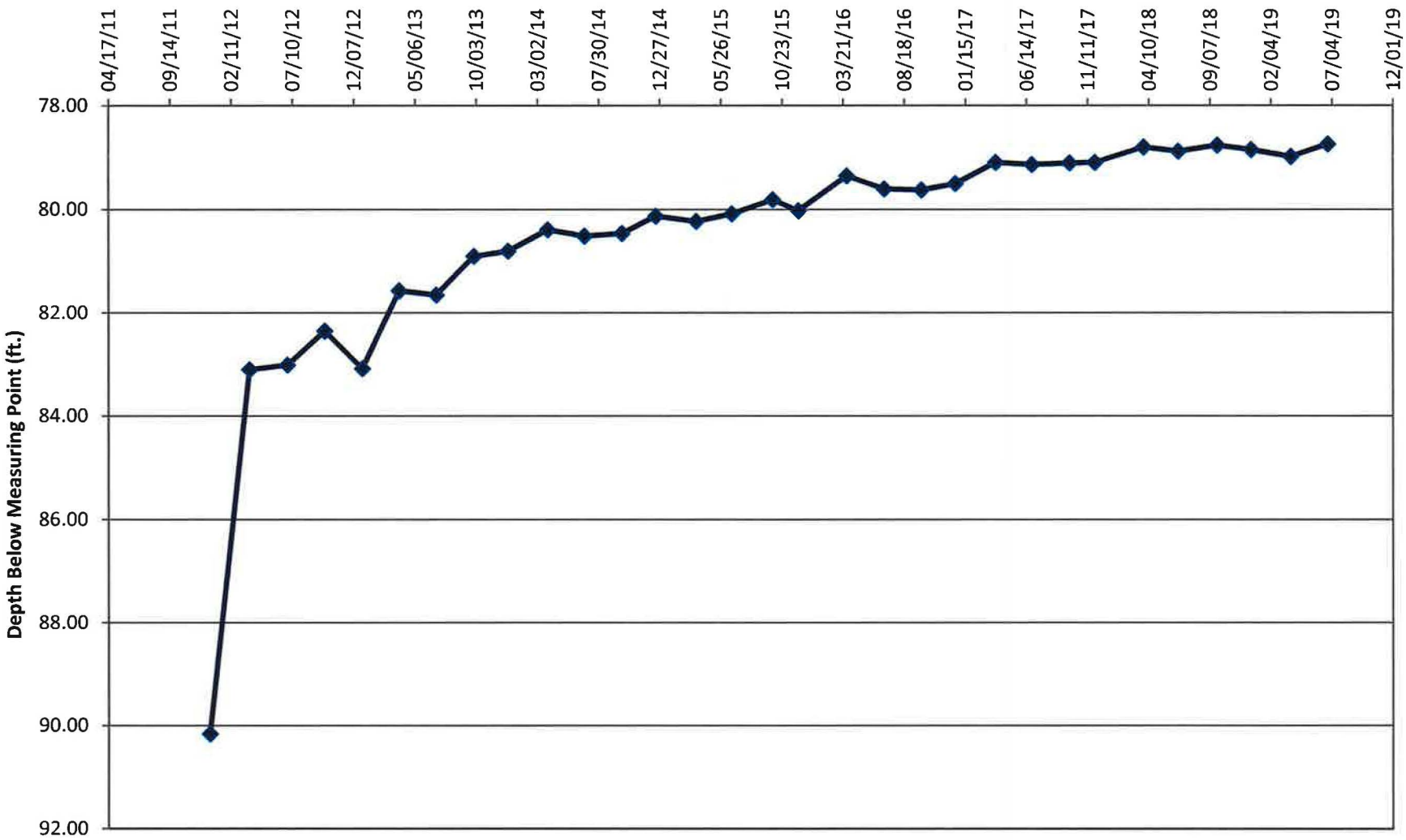
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.98	5,601.68	1.70				87.7
5,536.90				06/14/10	64.78	63.08	
5,536.95				09/29/10	64.73	63.03	
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	
5,534.61				06/30/16	67.07	65.37	
5,534.12				09/29/16	67.56	65.86	
5,533.96				12/21/16	67.72	66.02	
5,533.97				03/30/17	67.71	66.01	
5,533.66				06/27/17	68.02	66.32	
5,533.43				09/28/17	68.25	66.55	
5,533.39				11/30/17	68.29	66.59	
5,532.99				03/28/18	68.69	66.99	
5,532.74				06/22/18	68.94	67.24	
5,532.32				09/25/18	69.36	67.66	
5,532.04				12/17/18	69.64	67.94	
5,531.48				03/25/19	70.20	68.50	
5,531.20				06/24/19	70.48	68.78	


TW4-26 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
62.00
63.00
64.00
65.00
66.00
67.00
68.00
69.00
70.00
71.00
08/25/09
01/22/10
06/21/10
11/18/10
04/17/11
09/14/11
02/11/12
07/10/12
12/07/12
05/06/13
10/03/13
03/02/14
07/30/14
12/27/14
05/26/15
10/23/15
03/21/16
08/18/16
01/15/17
06/14/17
11/11/17
04/10/18
09/07/18
02/04/19
07/04/19
12/01/19
04/29/20

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

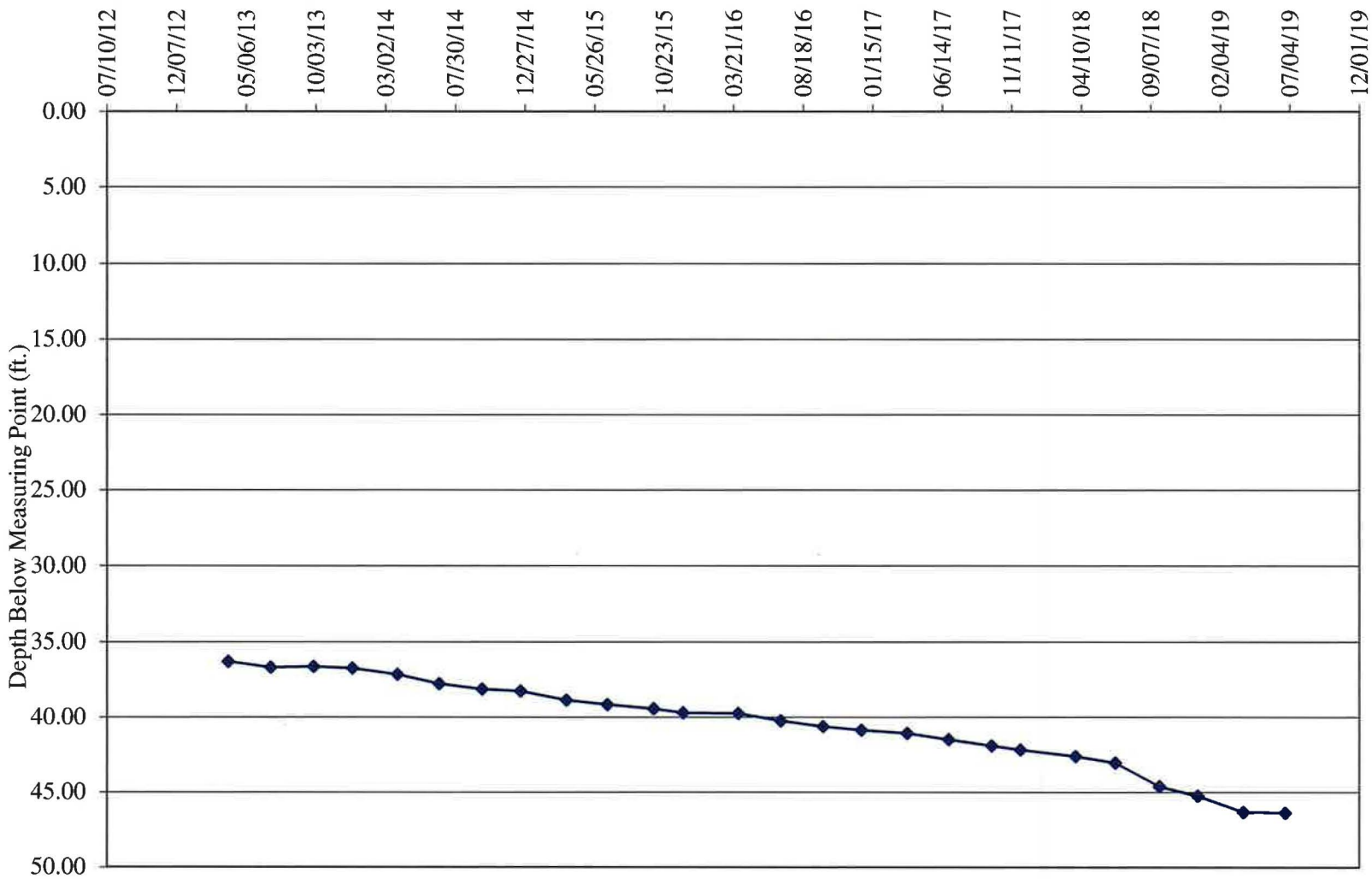
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,606.19	5,607.94	1.75				95.75
5,517.78				12/21/11	90.16	88.41	
5,524.84				03/27/12	83.10	81.35	
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	
5,528.34				06/30/16	79.60	77.85	
5,528.32				09/29/16	79.62	77.87	
5,528.44				12/21/16	79.50	77.75	
5,528.85				03/30/17	79.09	77.34	
5,528.81				06/27/17	79.13	77.38	
5,528.84				09/28/17	79.10	77.35	
5,528.85				11/29/17	79.09	77.34	
5,529.14				03/28/18	78.80	77.05	
5,529.06				06/21/18	78.88	77.13	
5,529.18				09/25/18	78.76	77.01	
5,529.09				12/17/18	78.85	77.10	
5,528.96				03/25/19	78.98	77.23	
5,529.20				06/24/19	78.74	76.99	

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



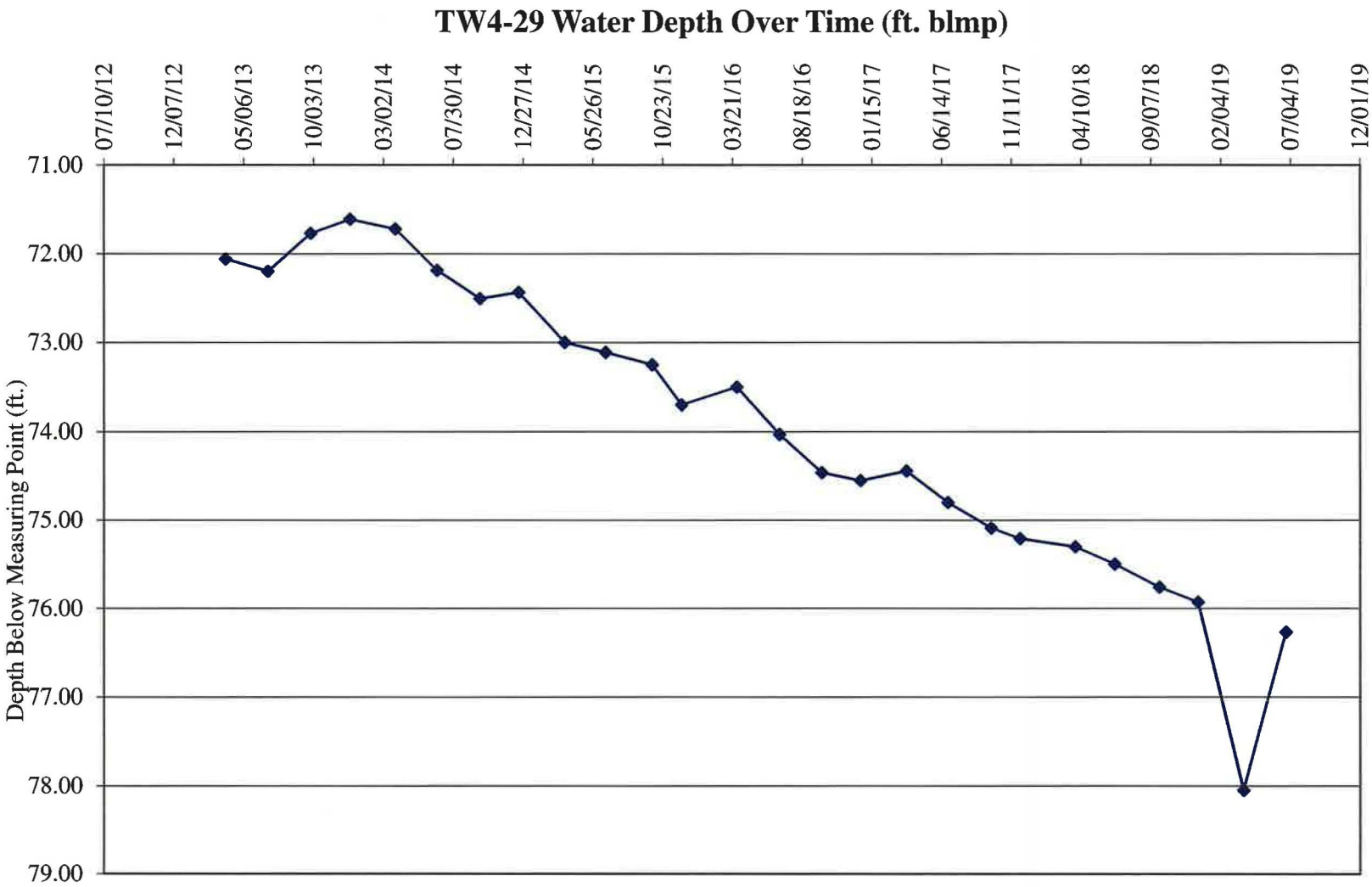
Water Levels and Data over Time
White Mesa Mill - Well TW4-28

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.52	5,617.00	3.48				108.48
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	
5,576.75				06/30/16	40.25	36.77	
5,576.36				09/29/16	40.64	37.16	
5,576.13				12/21/16	40.87	37.39	
5,575.92				03/30/17	41.08	37.60	
5,575.50				06/27/17	41.50	38.02	
5,575.08				09/28/17	41.92	38.44	
5,574.80				11/29/17	42.20	38.72	
5,574.36				03/28/18	42.64	39.16	
5,573.92				06/22/18	43.08	39.60	
5,572.37				09/25/18	44.63	41.15	
5,571.74				12/17/18	45.26	41.78	
5,570.65				03/25/19	46.35	42.87	
5,570.60				06/24/19	46.40	42.92	


TW4-28 Water Depth Over Time (ft. blmp)
07/10/12
12/07/12
05/06/13
10/03/13
03/02/14
07/30/14
12/27/14
05/26/15
10/23/15
03/21/16
08/18/16
01/15/17
06/14/17
11/11/17
04/10/18
09/07/18
02/04/19
07/04/19
12/01/19
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00
Depth Below Measuring Point (ft.)

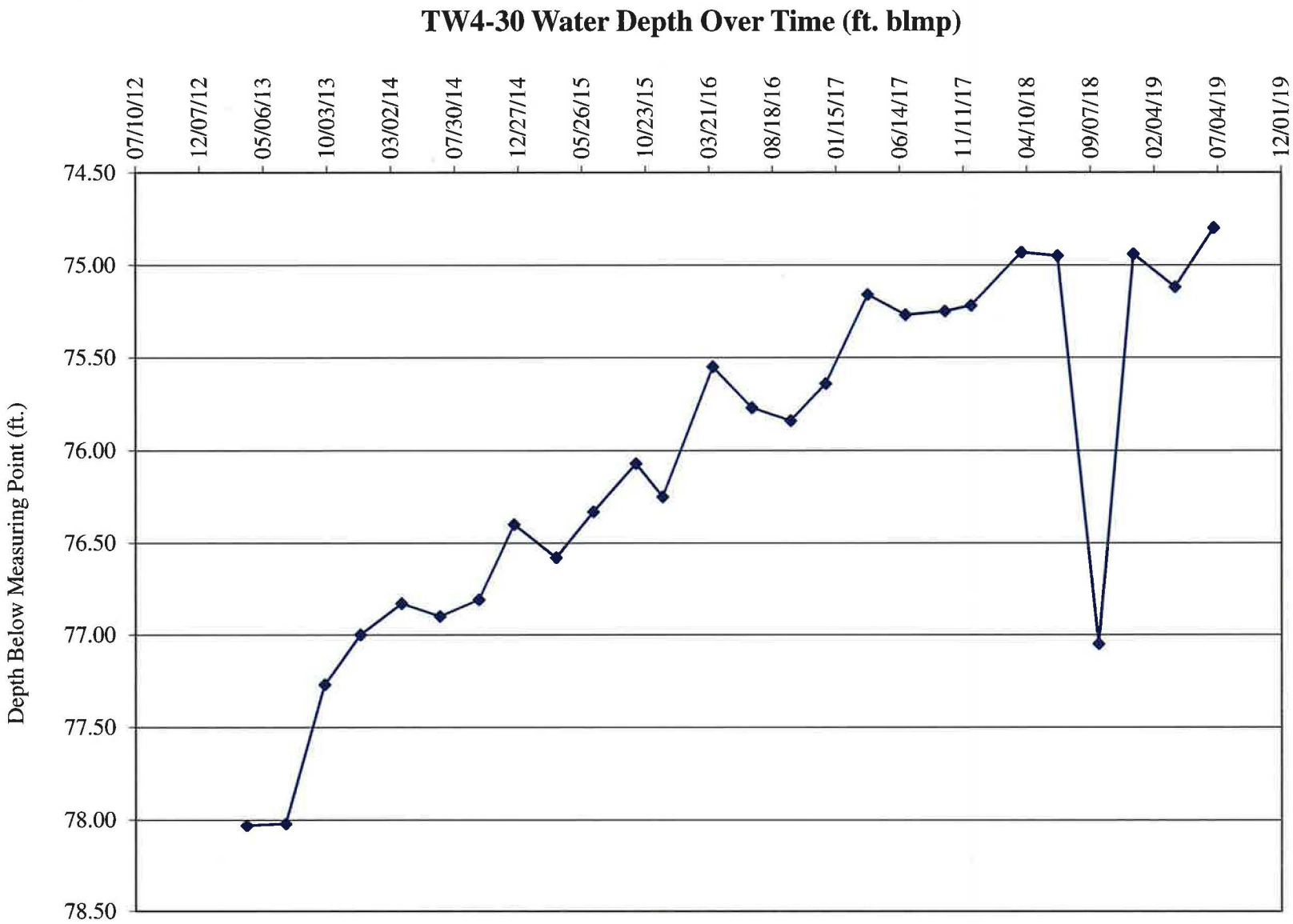
Water Levels and Data over Time
White Mesa Mill - Well TW4-29

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,602.56	5,606.04	3.48				94.48
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	
5,532.01				06/30/16	74.03	70.55	
5,531.58				09/29/16	74.46	70.98	
5,531.49				12/21/16	74.55	71.07	
5,531.60				03/30/17	74.44	70.96	
5,531.24				06/27/17	74.80	71.32	
5,530.95				09/28/17	75.09	71.61	
5,530.83				11/29/17	75.21	71.73	
5,530.74				03/28/18	75.30	71.82	
5,530.54				06/21/18	75.50	72.02	
5,530.28				09/25/18	75.76	72.28	
5,530.11				12/17/18	75.93	72.45	
5,527.99				03/25/19	78.05	74.57	
5,529.77				06/24/19	76.27	72.79	


TW4-29 Water Depth Over Time (ft. blmp)
07/10/12
12/07/12
05/06/13
10/03/13
03/02/14
07/30/14
12/27/14
05/26/15
10/23/15
03/21/16
08/18/16
01/15/17
06/14/17
11/11/17
04/10/18
09/07/18
02/04/19
07/04/19
12/01/19
71.00
72.00
73.00
74.00
75.00
76.00
77.00
78.00
79.00
Depth Below Measuring Point (ft.)

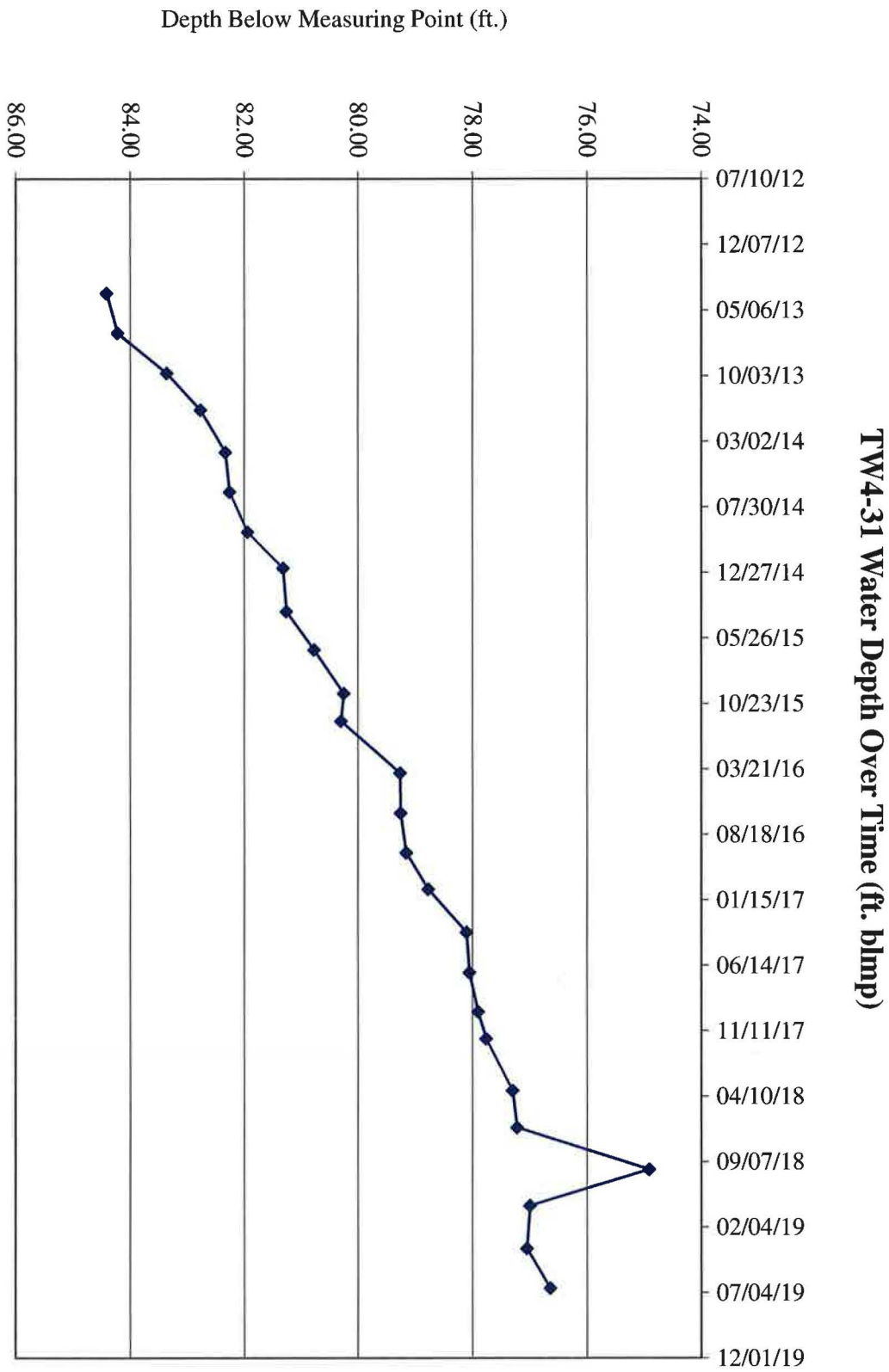
Water Levels and Data over Time
White Mesa Mill - Well TW4-30

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.33	5,602.81	3.48				93.48
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	
5,527.04				06/30/16	75.77	72.29	
5,526.97				09/29/16	75.84	72.36	
5,527.17				12/21/16	75.64	72.16	
5,527.65				03/30/17	75.16	71.68	
5,527.54				06/27/17	75.27	71.79	
5,527.56				09/28/17	75.25	71.77	
5,527.59				11/29/17	75.22	71.74	
5,527.88				03/28/18	74.93	71.45	
5,527.86				06/21/18	74.95	71.47	
5,525.76				09/25/18	77.05	73.57	
5,527.87				12/17/18	74.94	71.46	
5,527.69				03/25/19	75.12	71.64	
5,528.01				06/24/19	74.80	71.32	


TW4-30 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
74.50
75.00
75.50
76.00
76.50
77.00
77.50
78.00
78.50
07/10/12
12/07/12
05/06/13
10/03/13
03/02/14
07/30/14
12/27/14
05/26/15
10/23/15
03/21/16
08/18/16
01/15/17
06/14/17
11/11/17
04/10/18
09/07/18
02/04/19
07/04/19
12/01/19

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

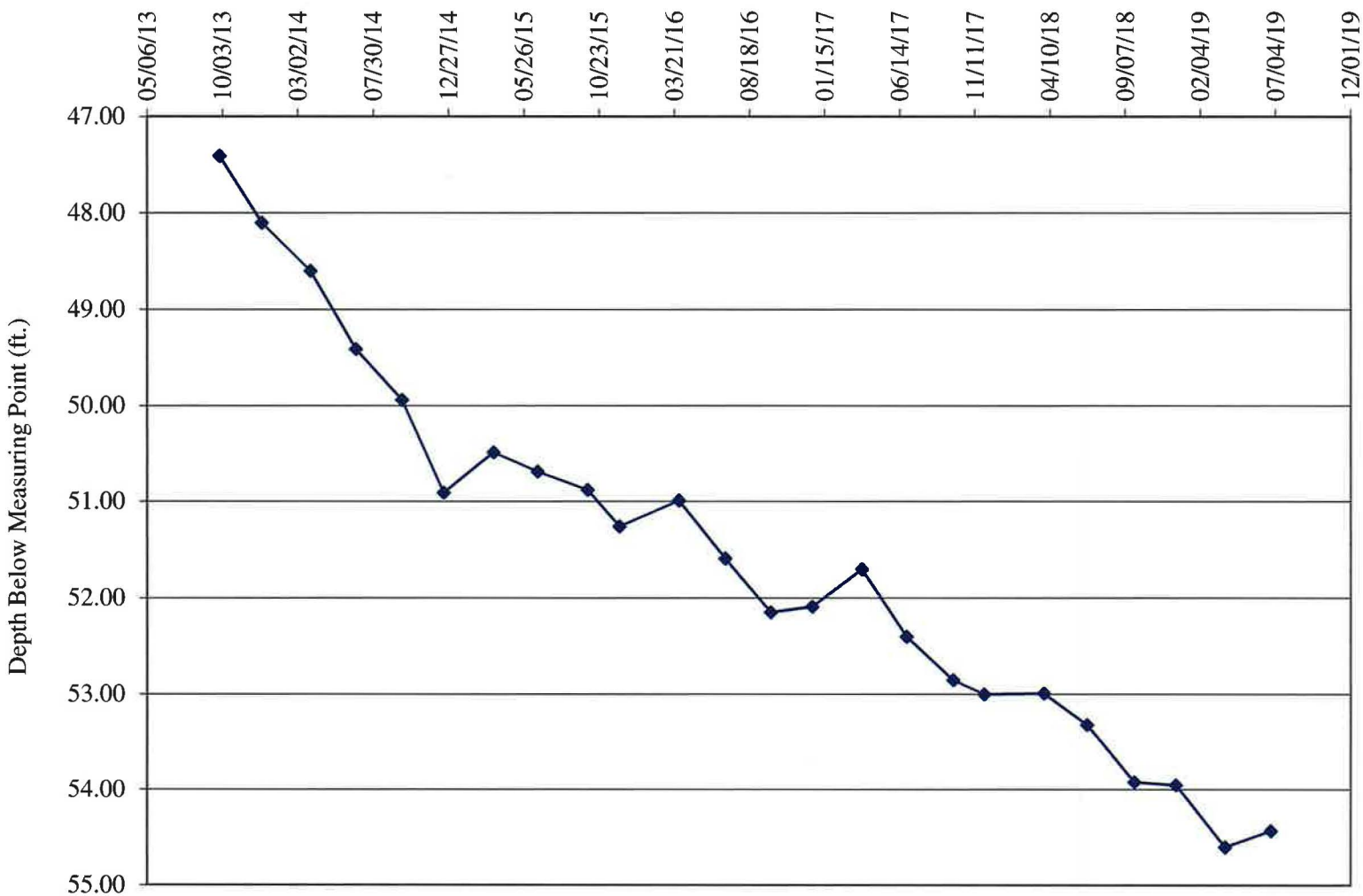
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,601.10	5,604.58	3.48				107.48
5,520.17				03/28/13	84.41	80.93	
5,520.36				06/27/13	84.22	80.74	
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	
5,525.33				06/30/16	79.25	75.77	
5,525.43				09/29/16	79.15	75.67	
5,525.81				12/21/16	78.77	75.29	
5,526.48				03/30/17	78.10	74.62	
5,526.53				06/30/17	78.05	74.57	
5,526.68				09/28/17	77.90	74.42	
5,526.82				11/29/17	77.76	74.28	
5,527.28				03/28/18	77.30	73.82	
5,527.36				06/21/18	77.22	73.74	
5,529.67				09/25/18	74.91	71.43	
5,527.58				12/17/18	77.00	73.52	
5,527.53				03/25/19	77.05	73.57	
5,527.94				06/24/19	76.64	73.16	


Depth Below Measuring Point (ft.)
86.00
84.00
82.00
80.00
78.00
76.00
74.00
07/10/12
12/07/12
05/06/13
10/03/13
03/02/14
07/30/14
12/27/14
05/26/15
10/23/15
03/21/16
08/18/16
01/15/17
06/14/17
11/11/17
04/10/18
09/07/18
02/04/19
07/04/19
12/01/19
TW4-31 Water Depth Over Time (ft. blmp)

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.20	5,611.84	1.64				114.64
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	
5,560.25				06/30/16	51.59	49.95	
5,559.69				09/29/16	52.15	50.51	
5,559.75				12/21/16	52.09	50.45	
5,560.14				03/30/17	51.70	50.06	
5,559.44				06/27/17	52.40	50.76	
5,558.99				09/28/17	52.85	51.21	
5,558.84				11/29/17	53.00	51.36	
5,558.85				03/28/18	52.99	51.35	
5,558.52				06/22/18	53.32	51.68	
5,557.92				09/25/18	53.92	52.28	
5,557.89				12/17/18	53.95	52.31	
5,557.24				03/25/19	54.60	52.96	
5,557.41				06/24/19	54.43	52.79	

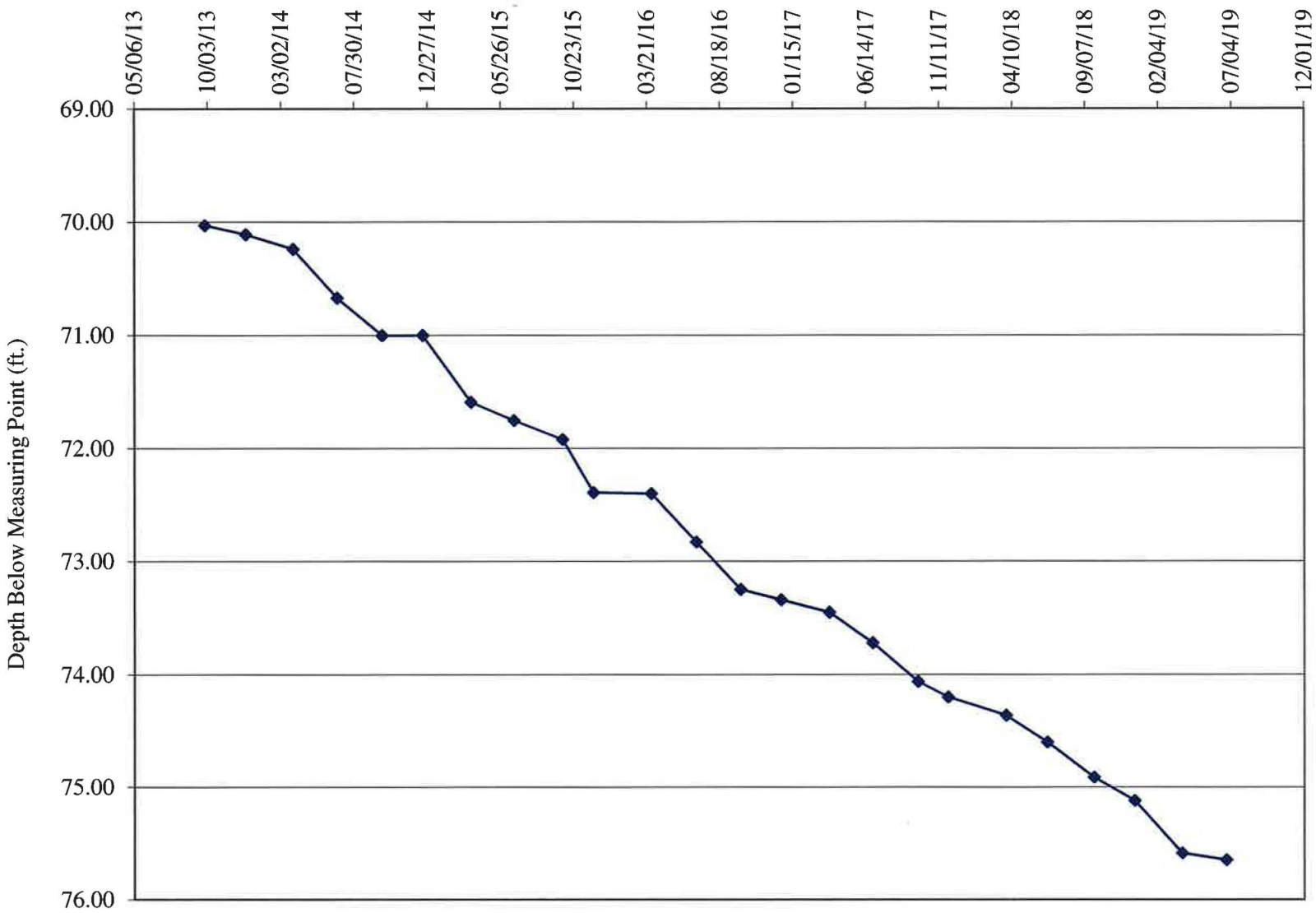
TW4-32 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,605.20	5,606.73	1.53				86.23
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	
5,533.90				06/30/16	72.83	71.30	
5,533.48				09/29/16	73.25	71.72	
5,533.39				12/21/16	73.34	71.81	
5,533.28				03/30/17	73.45	71.92	
5,533.01				06/27/17	73.72	72.19	
5,532.67				09/28/17	74.06	72.53	
5,532.53				11/29/17	74.20	72.67	
5,532.37				03/28/18	74.36	72.83	
5,532.13				06/21/18	74.60	73.07	
5,531.82				09/25/18	74.91	73.38	
5,531.61				12/17/18	75.12	73.59	
5,531.14				03/25/19	75.59	74.06	
5,531.08				06/24/19	75.65	74.12	

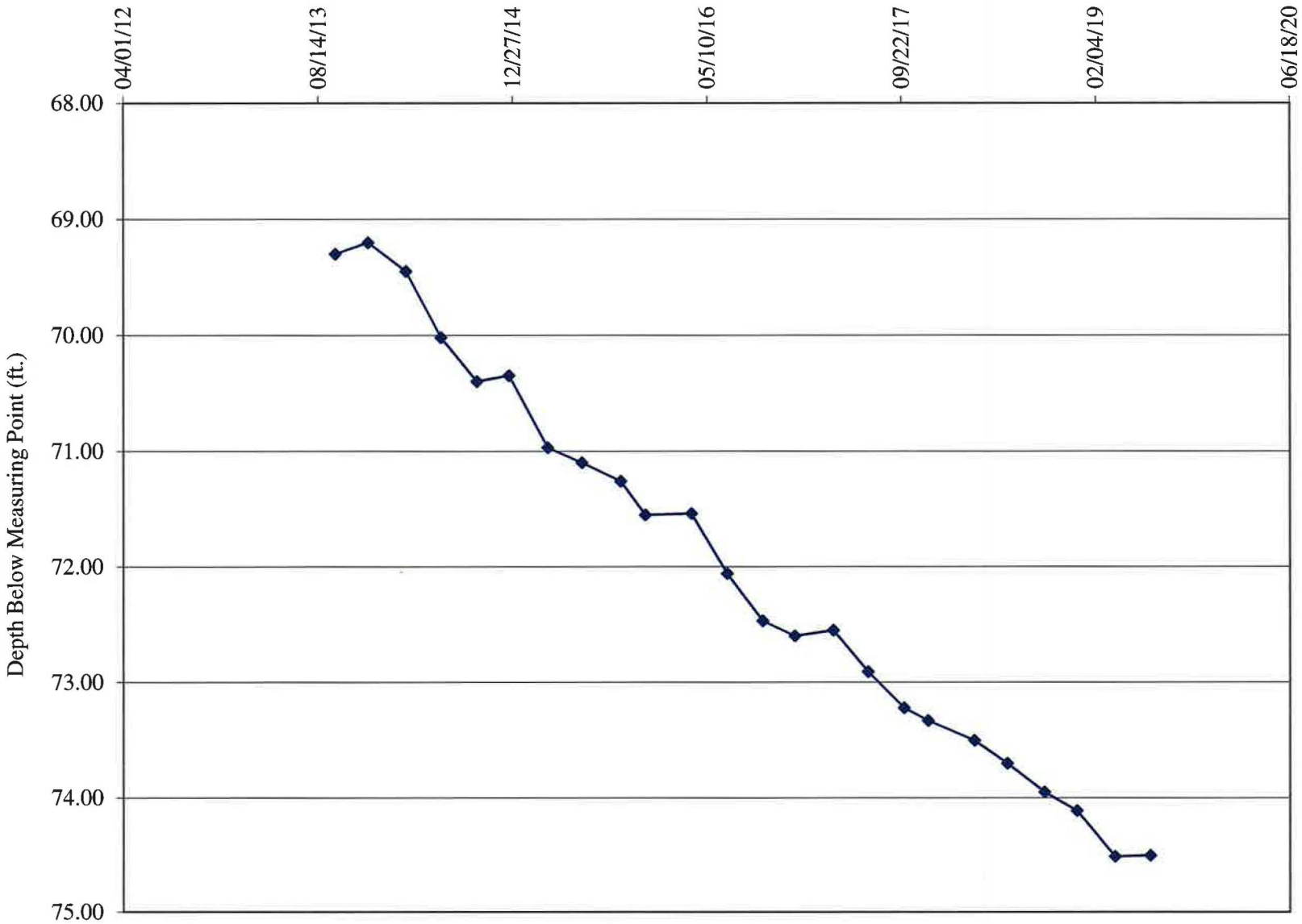
TW4-33 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,601.60	5,603.34	1.74				95.74
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	
5,531.28				06/30/16	72.06	70.32	
5,530.87				09/29/16	72.47	70.73	
5,530.74				12/21/16	72.60	70.86	
5,530.79				03/30/17	72.55	70.81	
5,530.43				06/27/17	72.91	71.17	
5,530.12				09/28/17	73.22	71.48	
5,530.01				11/29/17	73.33	71.59	
5,529.84				03/28/18	73.50	71.76	
5,529.64				06/21/18	73.70	71.96	
5,529.39				09/25/18	73.95	72.21	
5,529.23				12/17/18	74.11	72.37	
5,528.83				03/25/19	74.51	72.77	
5,528.84				06/24/19	74.50	72.76	

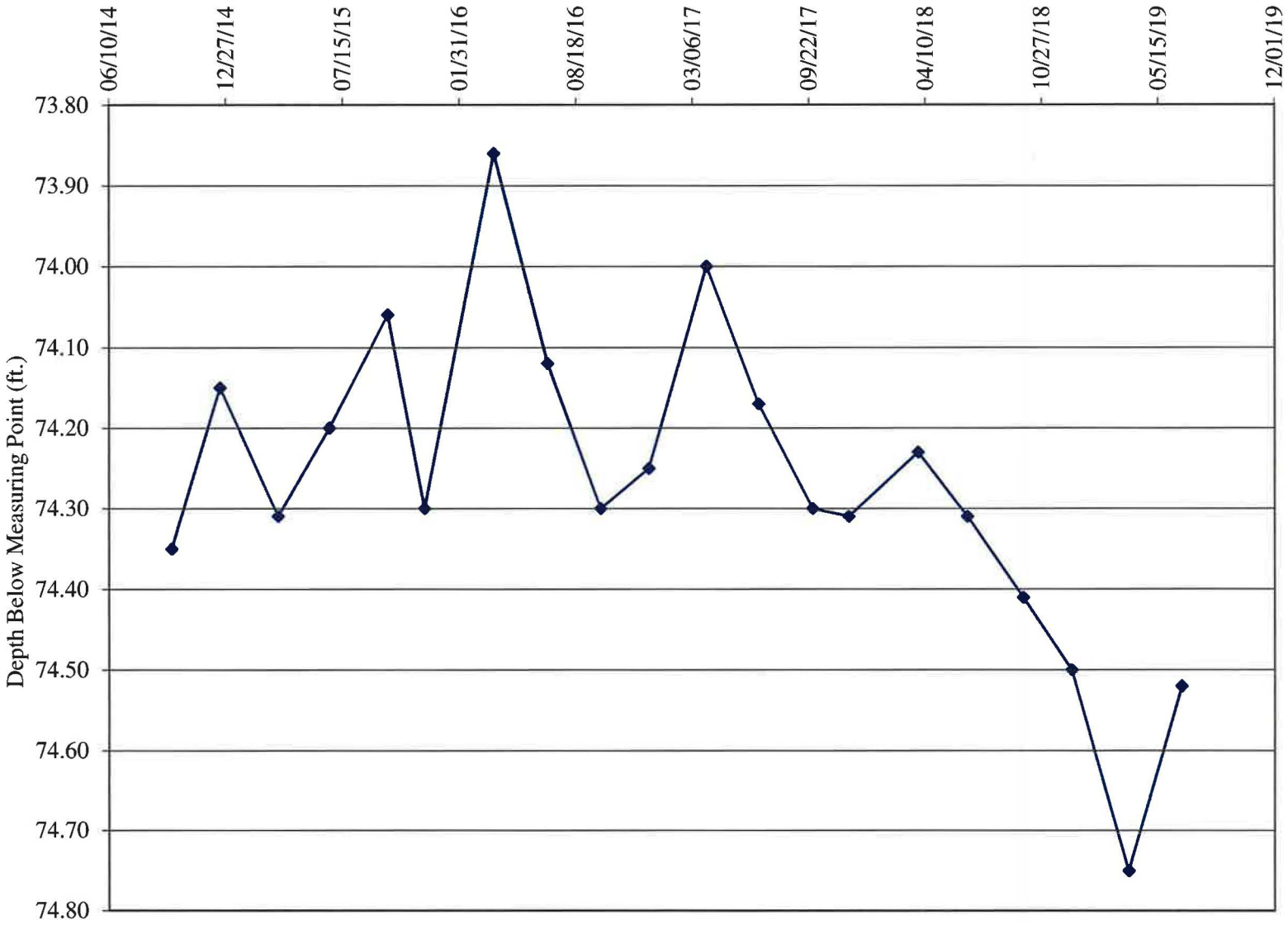
TW4-34 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,598.67	5,599.87	1.20				86.5
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	
5,525.75				06/30/16	74.12	72.92	
5,525.57				09/29/16	74.30	73.10	
5,525.62				12/21/16	74.25	73.05	
5,525.87				03/30/17	74.00	72.80	
5,525.70				06/27/17	74.17	72.97	
5,525.57				09/28/17	74.30	73.10	
5,525.56				11/29/17	74.31	73.11	
5,525.64				03/28/18	74.23	73.03	
5,525.56				06/21/18	74.31	73.11	
5,525.46				09/25/18	74.41	73.21	
5,525.37				12/17/18	74.50	73.30	
5,525.12				03/25/19	74.75	73.55	
5,525.35				06/24/19	74.52	73.32	

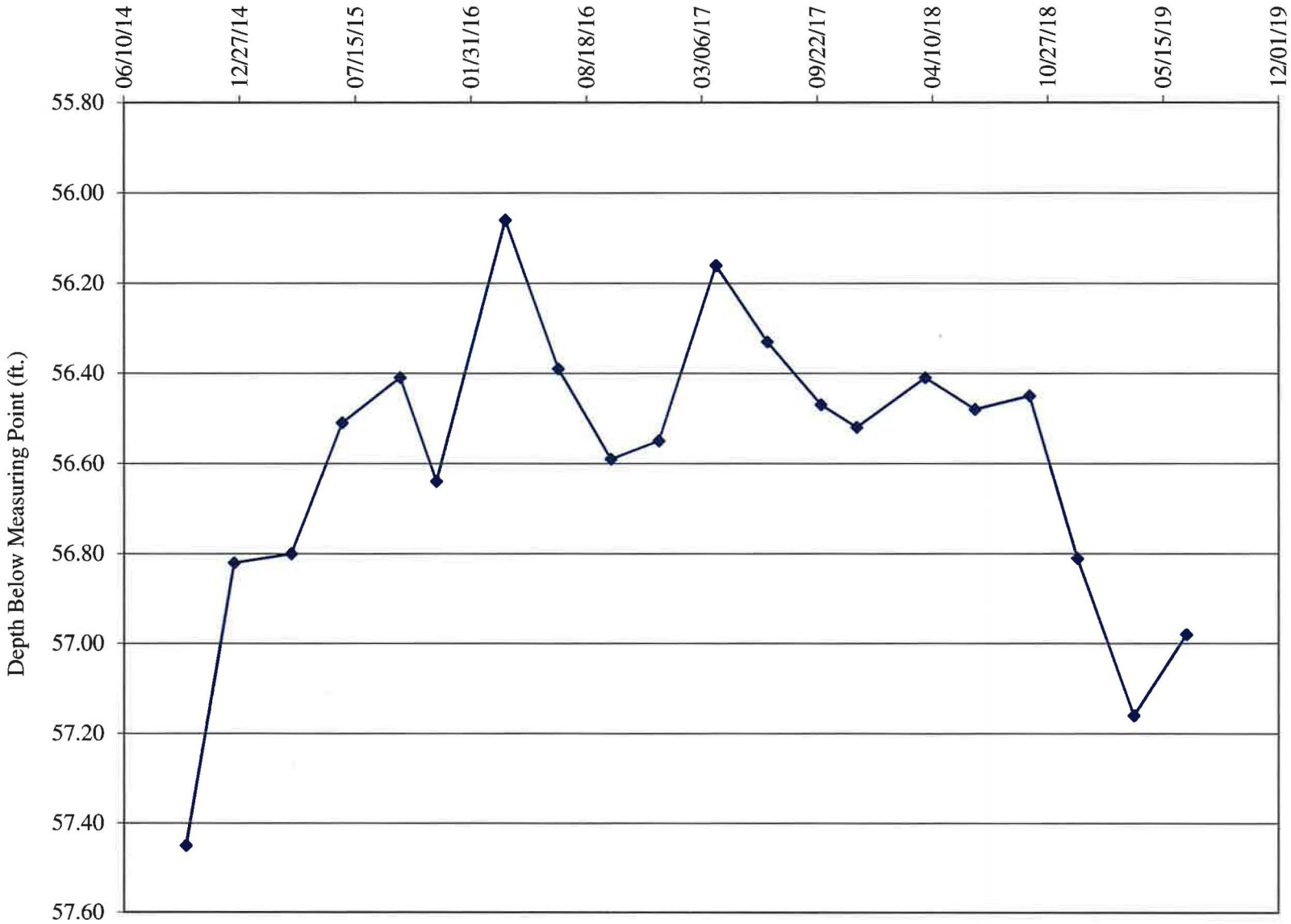
TW4-35 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,615.18	5,616.59	1.41				99.41
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	
5,560.20				06/30/16	56.39	54.98	
5,560.00				09/29/16	56.59	55.18	
5,560.04				12/21/16	56.55	55.14	
5,560.43				03/30/17	56.16	54.75	
5,560.26				06/27/17	56.33	54.92	
5,560.12				09/28/17	56.47	55.06	
5,560.07				11/29/17	56.52	55.11	
5,560.18				03/28/18	56.41	55.00	
5,560.11				06/22/18	56.48	55.07	
5,560.14				09/25/18	56.45	55.04	
5,559.78				12/17/18	56.81	55.40	
5,559.43				03/25/19	57.16	55.75	
5,559.61				06/24/19	56.98	55.57	

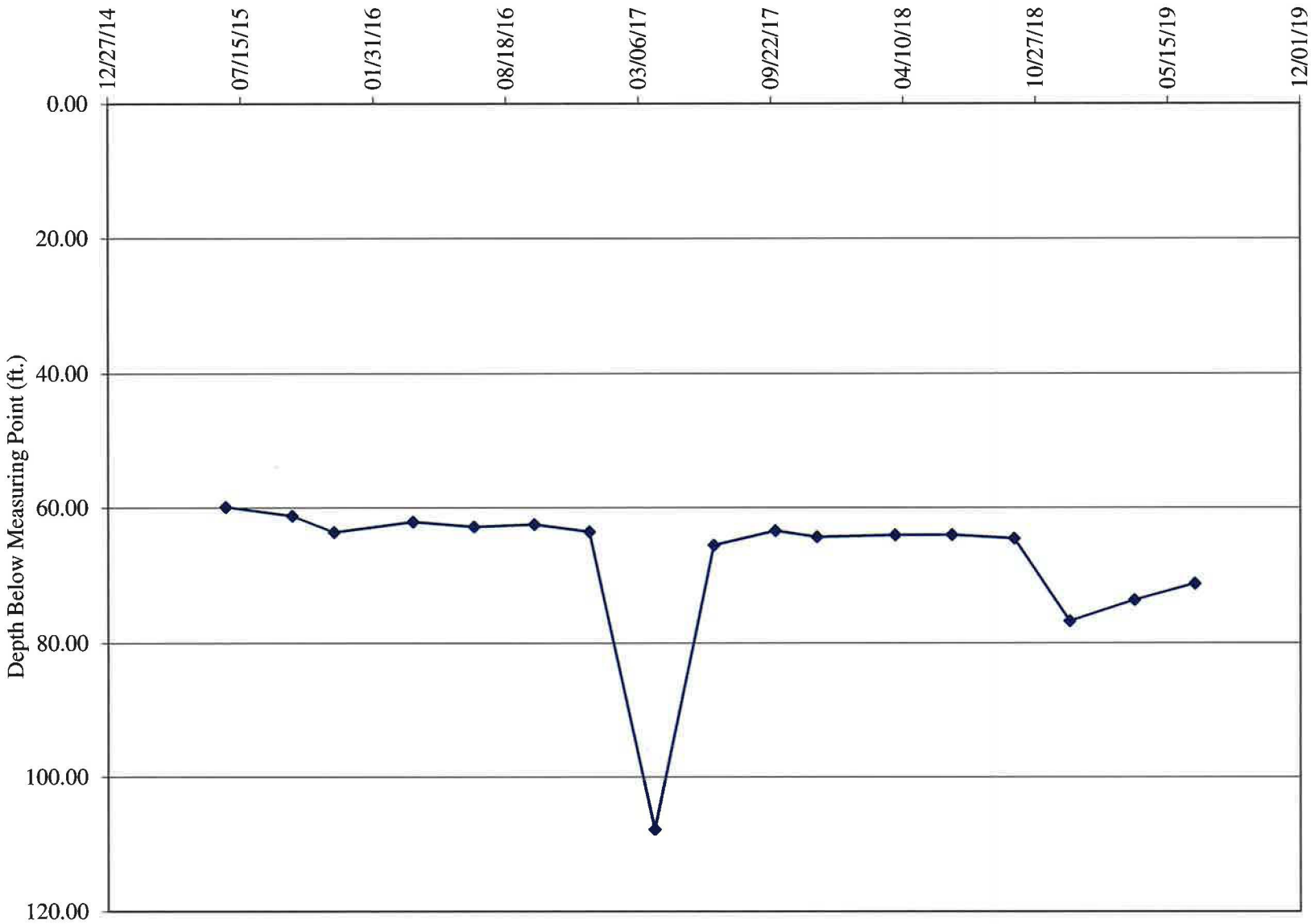
TW4-36 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,630.13	5,631.85	1.72				113.72
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	
5,569.07				06/30/16	62.78	61.06	
5,569.40				09/29/16	62.45	60.73	
5,568.35				12/21/16	63.50	61.78	
5,524.05				03/30/17	107.80	106.08	
5,566.35				06/27/17	65.50	63.78	
5,568.47				09/28/17	63.38	61.66	
5,567.57				11/30/17	64.28	62.56	
5,567.83				03/28/18	64.02	62.30	
5,567.87				06/22/18	63.98	62.26	
5,567.35				09/24/18	64.50	62.78	
5,555.12				12/17/18	76.73	75.01	
5,558.24				03/25/19	73.61	71.89	
5,560.63				06/24/19	71.22	69.50	

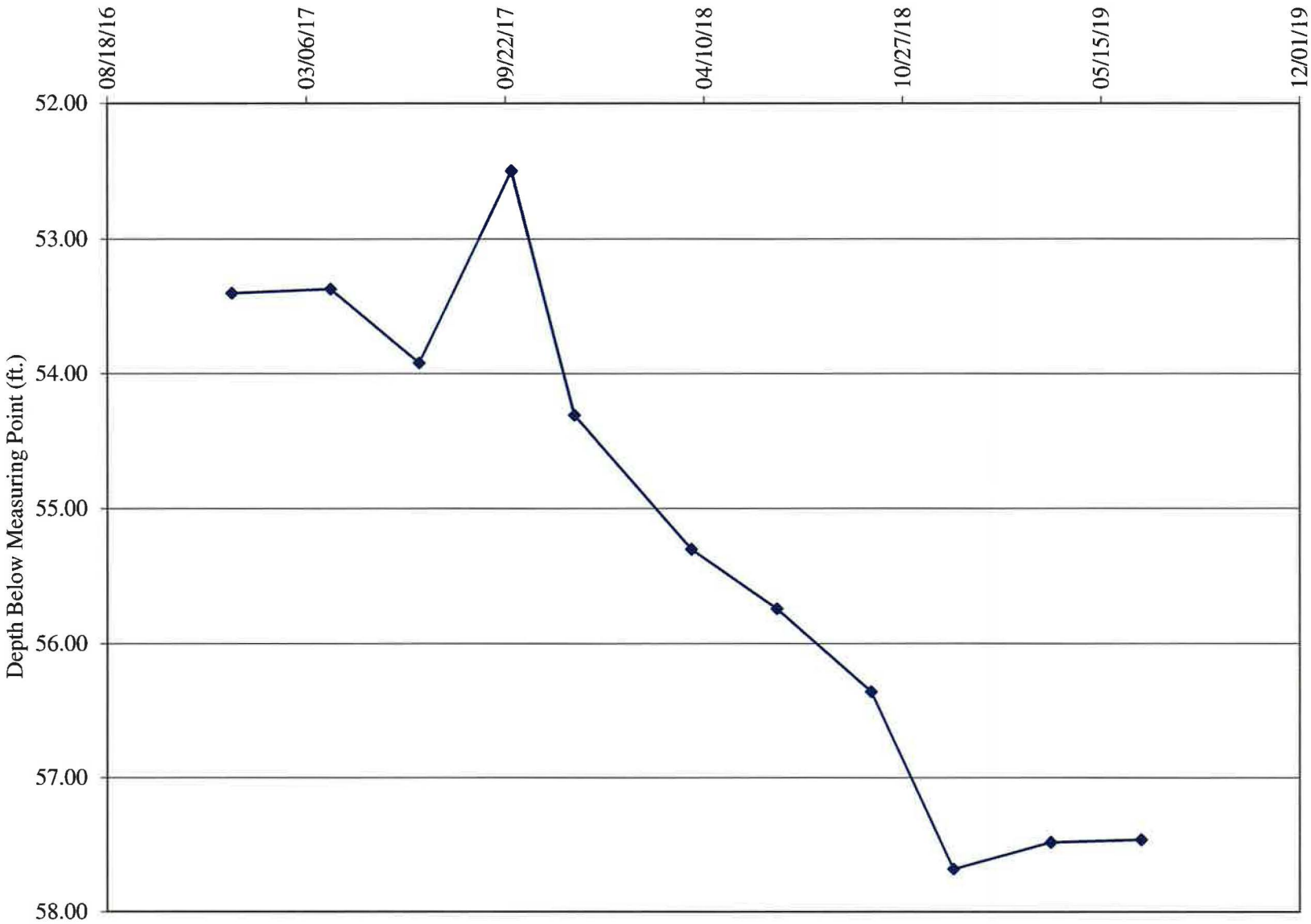
TW4-37 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-38

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,628.82	5,629.99	1.17				113.92
5,576.59				12/21/16	53.40	52.23	
5,576.62				03/30/17	53.37	52.20	
5,576.07				06/27/17	53.92	52.75	
5,577.49				09/28/17	52.50	51.33	
5,575.68				11/30/17	54.31	53.14	
5,574.69				03/28/18	55.30	54.13	
5,574.25				06/22/18	55.74	54.57	
5,573.63				09/25/18	56.36	55.19	
5,572.31				12/17/18	57.68	56.51	
5,572.51				03/25/19	57.48	56.31	
5,572.53				06/24/19	57.46	56.29	

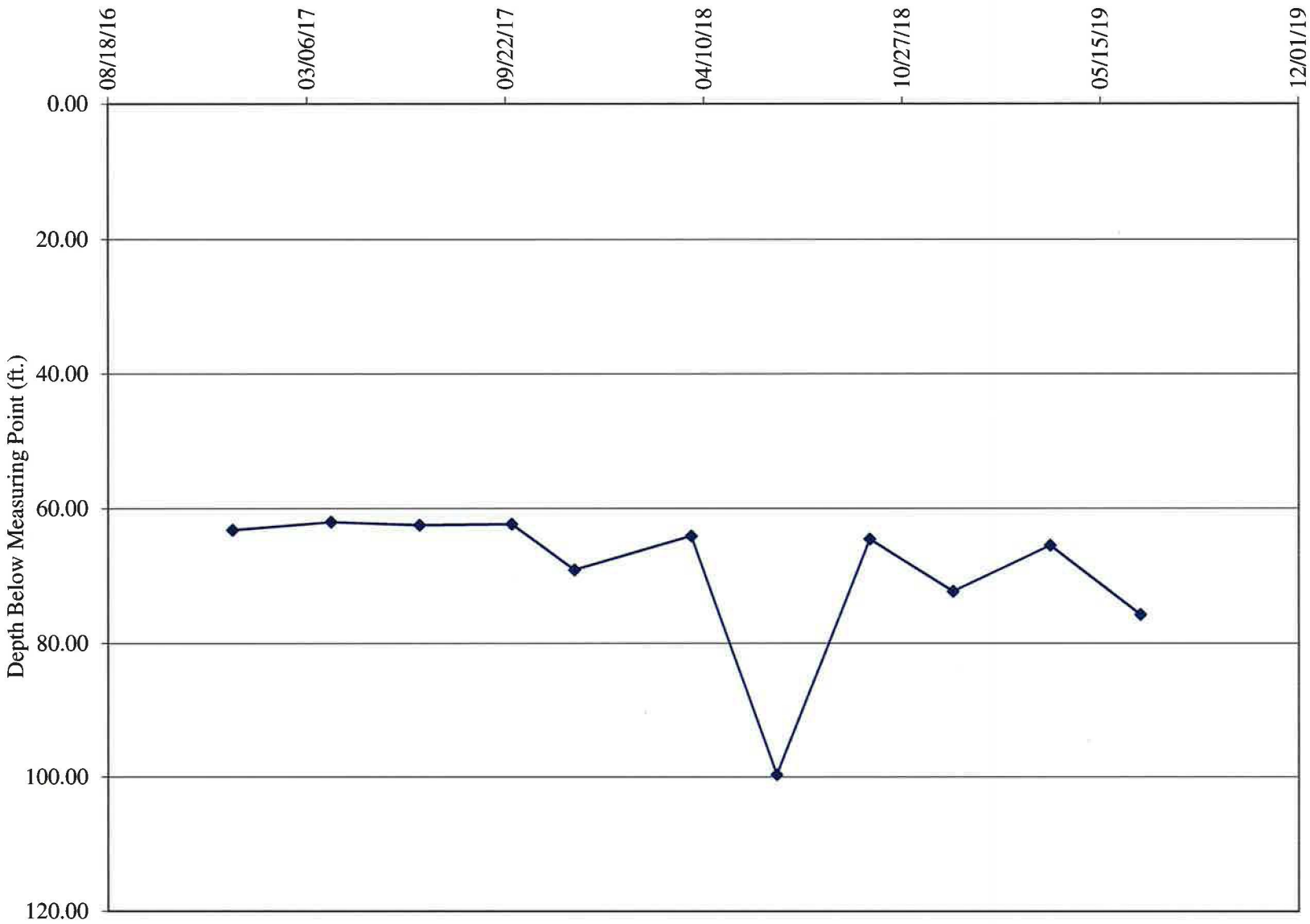
TW4-38 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-39

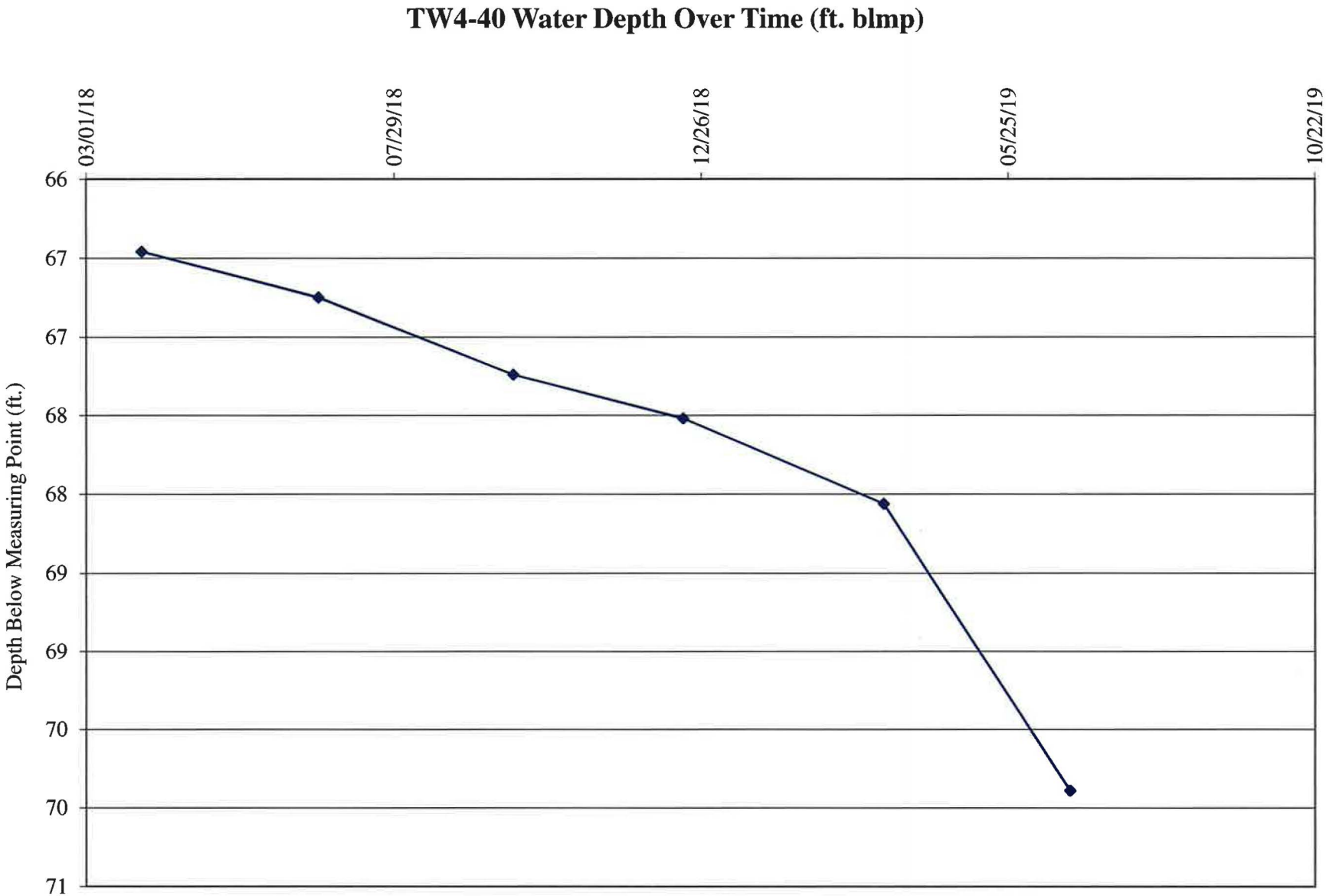
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,628.82	5,629.56	0.74				120.74
5,566.39				12/21/16	63.17	62.43	
5,567.57				03/30/17	61.99	61.25	
5,567.11				06/27/17	62.45	61.71	
5,567.26				09/28/17	62.30	61.56	
5,560.52				11/30/17	69.04	68.30	
5,565.51				03/28/18	64.05	63.31	
5,529.91				06/22/18	99.65	98.91	
5,565.04				09/24/18	64.52	63.78	
5,557.32				12/17/18	72.24	71.50	
5,564.12				03/25/19	65.44	64.70	
5,553.85				06/24/19	75.71	74.97	

TW4-39 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-40

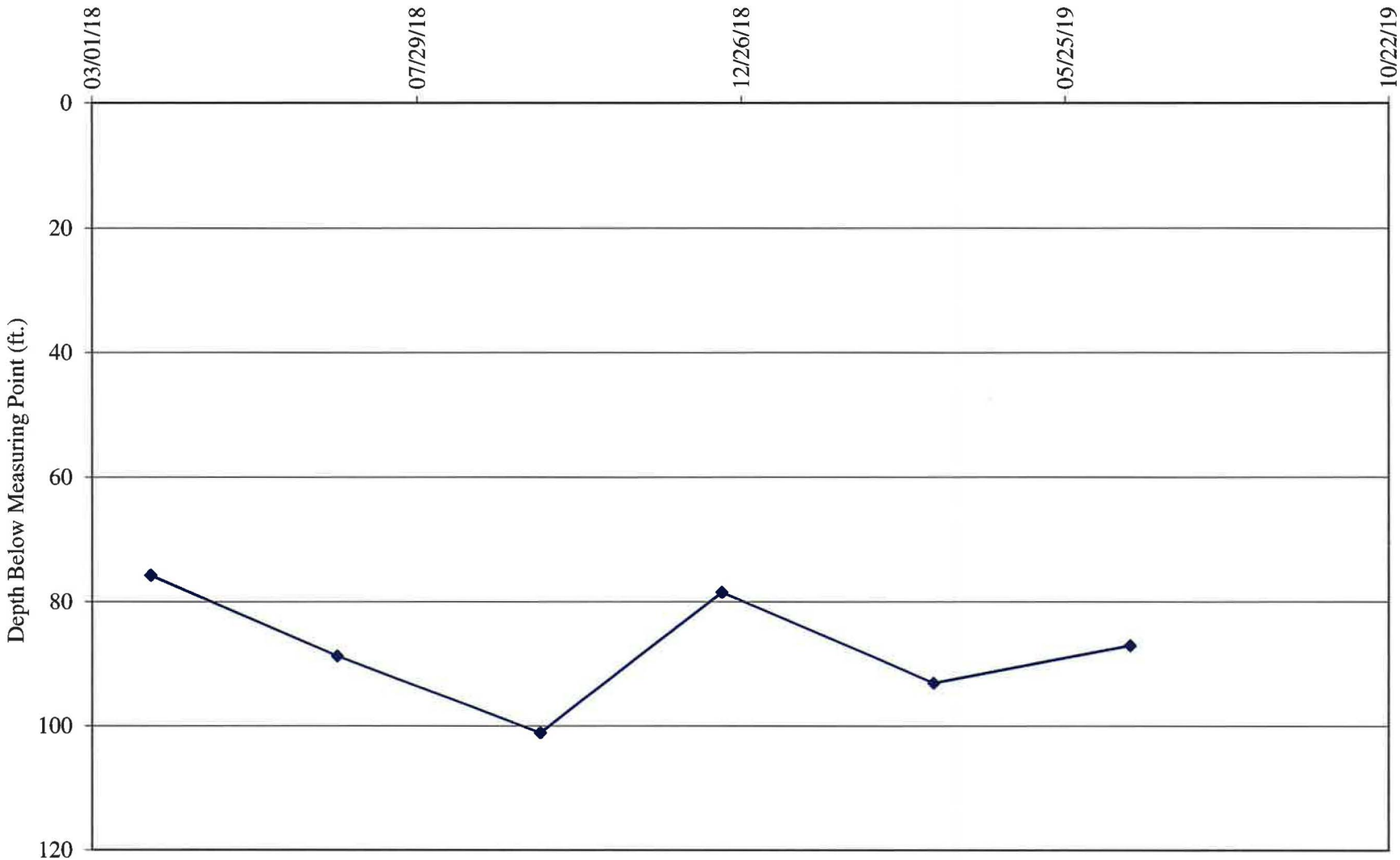
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,595.66	5,597.58	1.92				86
5,531.12				03/28/18	66.46	64.54	
5,530.83				06/22/18	66.75	64.83	
5,530.34				09/25/18	67.24	65.32	
5,530.06				12/17/18	67.52	65.60	
5,529.52				03/25/19	68.06	66.14	
5,527.69				06/24/19	69.89	67.97	


TW4-40 Water Depth Over Time (ft. blmp)
03/01/18
07/29/18
12/26/18
05/25/19
10/22/19
66
67
67
68
68
69
69
70
70
71
Depth Below Measuring Point (ft.)

Water Levels and Data over Time
White Mesa Mill - Well TW4-41

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.31	5,614.96	1.65				97.8
5,539.24				03/28/18	75.72	74.07	
5,526.18				06/22/18	88.78	87.13	
5,513.86				09/24/18	101.10	99.45	
5,536.53				12/17/18	78.43	76.78	
5,521.88				03/25/19	93.08	91.43	
5,527.89				06/24/19	87.07	85.42	

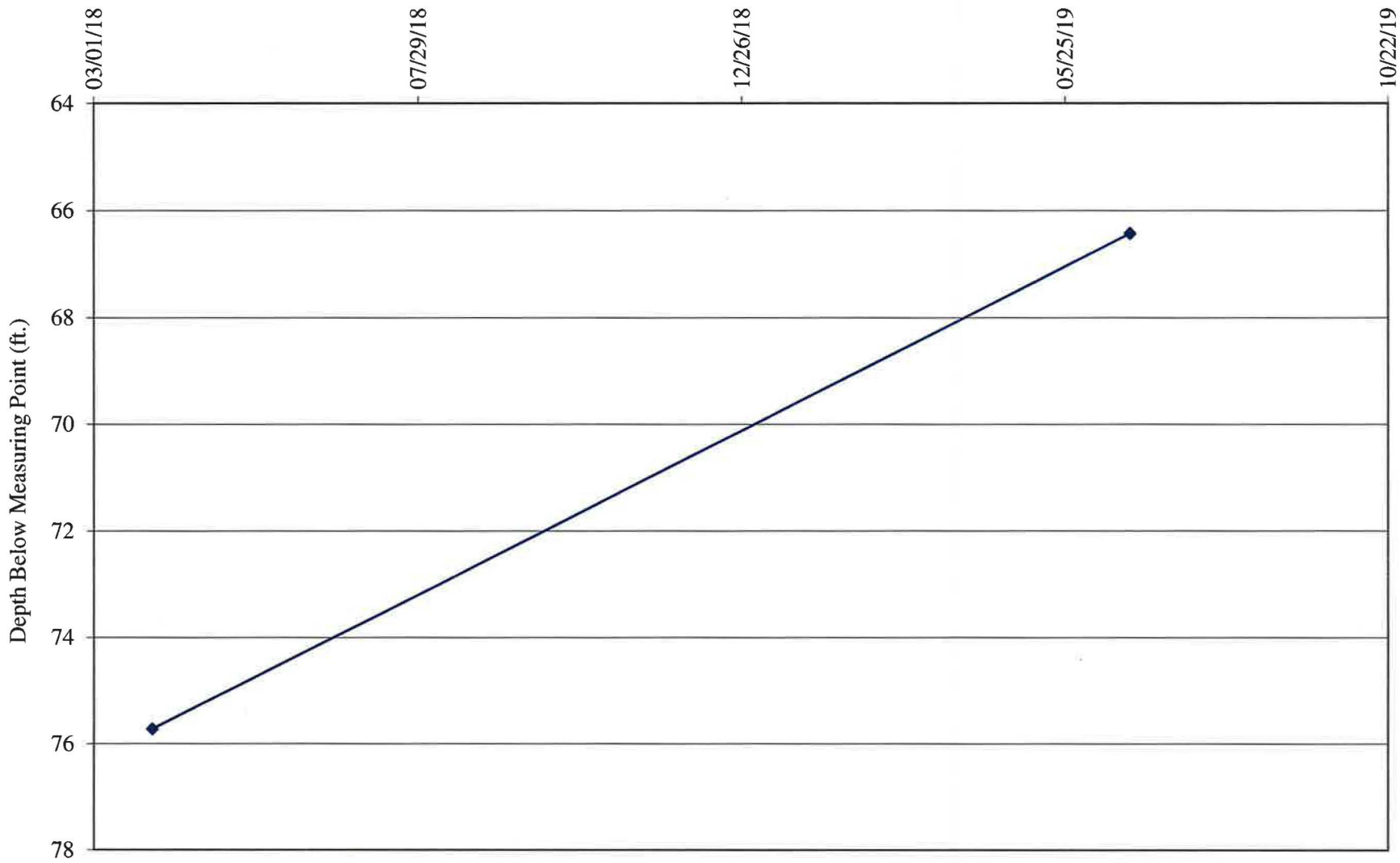
TW4-41 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-42

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,592.39	5,594.70	2.31				86.0
5,518.98				03/28/18	75.72	73.41	
5,528.28				06/24/19	66.42	64.11	

TW4-42 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

	MW-4						TW4-15 (formerly MW-26)					
Quarter	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	4947411.4	1.6673E+10	16673	36.8	930510	1660	3521980.4	5846487381	5846	12.9
Q2 2007	81230	2000	307455.6	614911100	615	1.4	54400	300	205904.0	61771200	62	0.1
Q3 2007	100700	2600	381149.5	990988700	991	2.2	72080	1400	272822.8	381951920	382	0.8
Q4 2007	90830	2300	343791.6	790720565	791	1.7	61750	2000	233723.8	467447500	467	1.0
Q1 2008	83950	2400	317750.8	762601800	763	1.7	47780	930	180847.3	168187989	168	0.4
Q2 2008	62780	2500	237622.3	594055750	594	1.3	44840	1300	169719.4	220635220	221	0.5
Q3 2008	81400	1800	308099.0	554578200	555	1.2	61280	630	231944.8	146125224	146	0.3
Q4 2008	91320	1700	345646.2	587598540	588	1.3	55700	630	210824.5	132819435	133	0.3
Q1 2009	90710	2200	343337.4	755342170	755	1.7	52970	950	200491.5	190466878	190	0.4
Q2 2009	450040	1800	1703401.4	3066122520	3066	6.8	58050	410	219719.3	90084892.5	90	0.2
Q3 2009	90420	2000	342239.7	684479400	684	1.5	57610	850	218053.9	185345773	185	0.4
Q4 2009	322380	1800	1220208.3	2196374940	2196	4.8	61960	1100	234518.6	257970460	258	0.6
Q1 2010	68125	1600	257853.1	412565000	413	0.9	61320	780	232096.2	181035036	181	0.4
Q2 2010	84005.33	2100	317960.2	667716366	668	1.5	60500	1900	228992.5	435085750	435	1.0
Q3 2010	79859.1	1900	302266.7	574306718	574	1.3	63850	2200	241672.3	531678950	532	1.2
Q4 2010	90042.2	1500	340809.7	511214591	511	1.1	60180	970	227781.3	220947861	221	0.5
Q1 2011	76247.6	1700	288597.2	490615182	491	1.1	55130	450	208667.1	93900172.5	94	0.2
Q2 2011	85849.3	1700	324939.6	552397321	552	1.2	55800.6	1800	211205.3	380169488	380	0.8
Q3 2011	85327.7	1700	322965.3	549041086	549	1.2	65618	720	248364.1	178822174	179	0.4
Q4 2011	89735.0	1600	339647.0	543435160	543	1.2	50191.3	1800	189974.1	341953327	342	0.8
Q1 2012	90376.4	1500	342074.7	513112011	513	1.1	31440.1	2400	119000.8	285601868	286	0.6
Q2 2012	90916.5	1400	344118.8	481766269	482	1.1	26701.2	3000	101064.1	303192353	303	0.7
Q3 2012	91607.0	1500	346732.5	520098743	520	1.1	25246	3100	95556.1	296223941	296	0.7
Q4 2012	78840.0	1300	298409.4	387932220	388	0.9	30797	1200	116566.6	139879974	140	0.3
Q1 2013	62943.7	1670	238241.9	397863981	398	0.9	22650.7	2120	85732.9	181753747	182	0.4
Q2 2013	71187.3	1490	269443.9	401471456	401	0.9	25343.4	4030	95924.8	386576819	387	0.9
Q3 2013	72898.8	1520	275922.0	419401376	419	0.9	25763	2940	97513.0	286688088	287	0.6
Q4 2013	70340.4	1410	266238.4	375396164	375	0.8	24207.6	1410	91625.8	129192330	129	0.3
Q1 2014	69833.8	1390	264320.9	367406097	367	0.8	23263.1	1400	88050.8	123271167	123	0.3
Q2 2014	71934.9	1390	272273.6	378460299	378	0.8	23757.5	1960	89922.1	176247390	176	0.4
Q3 2014	74788.2	1490	283073.3	421779272	422	0.9	24062.4	2120	91076.2	193081510	193	0.4
Q4 2014	63093.0	1440	238807.0	343882087	344	0.8	21875.8	2090	82799.9	173051797	173	0.4
Q1 2015	76454.3	1400	289379.5	405131336	405	0.9	24004.9	1980	90858.5	179899922	180	0.4
Q2 2015	60714.7	1300	229805.1	298746681	299	0.7	27804.6	1980	105240.4	208376014	208	0.5
Q3 2015	89520.8	1290	338836.2	437098734	437	1.0	21042.0	2350	79644.0	187163330	187	0.4
Q4 2015	99633.4	1200	377112.4	452534903	453	1.0	19355.6	2680	73260.9	196339335	196	0.4
Q1 2016	90882.1	1240	343988.7	426546048	427	0.9	19150.8	2650	72485.8	192087312	192	0.4
Q2 2016	96540.5	1580	365405.8	577341152	577	1.3	22105.7	2220	83670.1	185747565	186	0.4
Q3 2016	79786.4	1430	301991.5	431847879	432	1.0	17149.5	3190	64910.9	207065635	207	0.5
Q4 2016	85414.0	1470	323292.0	475239225	475	1.0	18541.6	2510	70180.0	176151690	176	0.4
Q1 2017	76642.3	1450	290091.1	420632103	421	0.9	26107.0	1290	98815.0	127471344	127	0.3
Q2 2017	72299.8	1430	273654.7	391326282	391	0.9	25921.8	2450	98114.0	240379332	240	0.5
Q3 2017	95349.3	1400	360897.1	505255941	505	1.1	27489.9	1230	104049.3	127980604	128	0.3
Q4 2017	106679.8	1320	403783.0	532993617	533	1.2	26445.8	2570	100097.4	257250197	257	0.6

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	MW-4						TW4-15 (formerly MW-26)					
Quarter	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 2018	105060.4	1320	397653.6	524902770	525	1.2	27004.7	1210	102212.8	123677475	124	0.3
Q2 2018	101786.2	1240	385260.8	477723351	478	1.1	26654.7	1870	100888.0	188660634	189	0.4
Q3 2018	95480.5	1300	361393.7	469811800	470	1.0	25536.1	1680	96654.1	162378953	162	0.4
Q4 2018	102884.8	1330	389418.9	517927177	518	1.1	23791.3	1480	90050.1	133274104	133	0.3
Q1 2019	111746.9	1190	422962.0	503324800	503	1.1	26798.5	1110	101432.3	112589878	113	0.2
Q2 2019	94540.7	1300	357836.5	465187514	465	1.0	24050.2	1280	91030.0	116518409	117	0.3
Totals	6062238.07					101.2	2765582.4					36.0

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-19						TW4-20					
Quarter	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	68150827947	68151	150.2	642290	16240	2431067.7	3.9481E+10	39481	87.0
Q2 2007	605400	8	2291439.0	18331512	18	0.0	163520	1800	618923.2	1114061760	1114	2.5
Q3 2007	316080	1100	1196362.8	1315999080	1316	2.9	70360	5200	266312.6	1384825520	1385	3.1
Q4 2007	334350	1100	1265514.8	1392066225	1392	3.1	63630	9000	240839.6	2167555950	2168	4.8
Q1 2008	304784	1800	1153607.4	2076493392	2076	4.6	66520	13000	251778.2	3273116600	3273	7.2
Q2 2008	380310	1000	1439473.4	1439473350	1439	3.2	39360	30000	148977.6	4469328000	4469	9.9
Q3 2008	529020	3600	2002340.7	7208426520	7208	15.9	53260	21000	201589.1	4233371100	4233	9.3
Q4 2008	589620	4200	2231711.7	9373189140	9373	20.7	50230	1000	190120.6	190120550	190	0.4
Q1 2009	469100	1100	1775543.5	1953097850	1953	4.3	52050	8200	197009.3	1615475850	1615	3.6
Q2 2009	450040	990	1703401.4	1686367386	1686	3.7	49270	6800	186487.0	1268111260	1268	2.8
Q3 2009	200650	6600	759460.3	5012437650	5012	11.1	51030	13000	193148.6	2510931150	2511	5.5
Q4 2009	454205	4700	1719165.9	8080079848	8080	17.8	208790	15000	790270.2	1.1854E+10	11854	26.1
Q1 2010	348550	940	1319261.8	1240106045	1240	2.7	14490	3500	54844.7	191956275	192	0.4
Q2 2010	453340	1800	1715891.9	3088605420	3089	6.8	39014.86	18000	147671.2	2658082412	2658	5.9
Q3 2010	116899.2	2000	442463.5	884926944	885	2.0	39098.3	15000	147987.1	2219805983	2220	4.9
Q4 2010	767970.5	1200	2906768.3	3488122011	3488	7.7	36752.5	24000	139108.2	3338597100	3339	7.4
Q1 2011	454607.9	3400	1720690.9	5850349065	5850	12.9	37187.5	31000	140754.7	4363395313	4363	9.6
Q2 2011	159238.9	4000	602719.2	2410876946	2411	5.3	67907.7	8100	257030.6	2081948220	2082	4.6
Q3 2011	141542.6	970	535738.7	519666578.8	520	1.1	72311.2	6800	273697.9	1861145666	1861	4.1
Q4 2011	147647.2	2200	558844.7	1229458234	1229	2.7	72089.3	7900	272858.0	2155578204	2156	4.8
Q1 2012	148747	650	563007.4	365954806.8	366	0.8	76306	11000	288818.2	3177000310	3177	7.0
Q2 2012	172082.03	460	651330.5	299612022.4	300	0.7	22956.43	36000	86890.1	3128043152	3128	6.9
Q3 2012	171345	950	648540.8	616113783.8	616	1.4	22025	13000	83364.6	1083740125	1084	2.4
Q4 2012	156653	1500	592931.6	889397407.5	889	2.0	20114	19000	76131.5	1446498310	1446	3.2
Q1 2013	210908	4210	798286.8	3360787344	3361	7.4	18177	18500	68799.9	1272798983	1273	2.8
Q2 2013	226224	2070	856257.8	1772453729	1772	3.9	20252.4	26300	76655.3	2016035284	2016	4.4
Q3 2013	329460.1	8100	1247006.5	10100752476	10101	22.3	19731	26800	74681.8	2001473178	2001	4.4
Q4 2013	403974	942	1529041.6	1440357178	1440	3.2	19280.2	15700	72975.6	1145716245	1146	2.5
Q1 2014	304851	586	1153861.0	676162566.5	676	1.5	18781.6	17800	71088.4	1265372737	1265	2.8
Q2 2014	297660.0	810	1126643.1	912580911	913	2.0	18462.4	22100	69880.2	1544352066	1544	3.4
Q3 2014	309742.0	1410	1172373.5	1653046593	1653	3.6	17237.9	12400	65245.5	809043599	809	1.8
Q4 2014	198331.0	4310	750682.8	3235443019	3235	7.1	16341.8	23300	61853.7	1441191513	1441	3.2
Q1 2015	60553.0	4660	229193.1	1068039869	1068	2.4	15744.7	19900	59593.7	1185914421	1186	2.6
Q2 2015	75102.8	1570	284264.1	446294633.9	446	1.0	18754.1	17600	70984.3	1249323126	1249	2.8
Q3 2015	116503.9	7860	440967.3	3466002675	3466	7.6	17657.3	17000	66832.9	1136158969	1136	2.5
Q4 2015	112762.7	7840	426806.8	3346165465	3346	7.4	15547.4	17000	58846.9	1000397453	1000	2.2
Q1 2016	116597.0	7780	441319.6	3433466838	3433	7.6	14353.5	21600	54328.0	1173484746	1173	2.6
Q2 2016	123768.0	12600	468461.9	5902619688	5903	13.0	15818.3	33700	59872.3	2017695347	2018	4.4
Q3 2016	103609.0	6040	392160.1	2368646793	2369	5.2	12186.6	23600	46126.3	1088580232	1089	2.4
Q4 2016	104919.4	6640	397119.9	2636876329	2637	5.8	12879.6	21300	48749.3	1038359792	1038	2.3
Q1 2017	110416.7	1240	417927.2	518229739.8	518	1.1	13552.8	23400	51297.3	1200357943	1200	2.6
Q2 2017	109943.0	510	416134.3	212228470.1	212	0.5	12475.3	18100	47219.0	854664090	855	1.9
Q3 2017	112626.4	8840	426290.9	3768411768	3768	8.3	14556.8	27600	55097.5	1520690669	1521	3.4
Q4 2017	108891.2	129	412153.2	53167761.77	53	0.1	14271.0	11600	54015.7	626582526	627	1.4

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-19						TW4-20					
Quarter	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 2018	109856.3	2640	415806.1	1097728092	1098	2.4	14258.4	15400	53968.0	831107878	831	1.8
Q2 2018	111271.4	2980	421162.2	1255063502	1255	2.8	13367.6	12000	50596.4	607156392	607	1.3
Q3 2018	105821.8	1910	400535.5	765022829.8	765	1.7	12443.6	10500	47099.0	494539773	495	1.1
Q4 2018	107197.4	5270	405742.2	2138261178	2138	4.7	12841.1	9500	48603.5	461733494	462	1.0
Q1 2019	116132.8	2050	439562.6	901103428.4	901	2.0	14623.9	15600	55351.5	863482799	863	1.9
Q2 2019	**100704.0**	**11500**	**381164.6**	**4383393360**	**4383**	**9.7**	**13439.1**	**13700**	**50867.0**	**696877811**	**697**	**1.5**
Totals	18828995.23					417.8	2437598.18					288.4

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-4						TW4-22					
Quarter	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	319885.1	639770223	640	1.4	NA	NA	NA	NA	NA	NA
Q3 2010	76916.8	2100	291130.1	611373184.8	611	1.3	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	1700	328810.9	558978527.5	559	1.2	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	1800	277667.6	499801680	500	1.1	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	1700	304066.5	516912983.7	517	1.1	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	1500	369170.0	553754962.5	554	1.2	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	1500	412729.6	619094471.3	619	1.4	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	1200	384619.6	461543505.6	462	1.0	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	1500	332168.2	498252290.3	498	1.1	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	1600	302822.7	484516336	485	1.1	NA	NA	NA	NA	NA	NA
Q4 2012	71596	1400	270990.9	379387204	379	0.8	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	1460	222243.1	324474908.5	324	0.7	16677.4	10600	63124.0	669113965.4	669.1	1.5
Q2 2013	65603.4	1330	248308.9	330250795.8	330	0.7	25523.2	12500	96605.3	1207566400.0	1207.6	2.7
Q3 2013	63515.4	1380	240405.8	331759988.8	332	0.7	25592.9	9640	96869.1	933818379.5	933.8	2.1
Q4 2013	60233.6	1360	227984.2	310058479.4	310	0.7	24952.2	13300	94444.1	1256106224.1	1256.1	2.8
Q1 2014	58992.9	1260	223288.1	281343039.4	281	0.6	24532.0	12100	92853.6	1123528802.0	1123.5	2.5
Q2 2014	60235.3	1220	227990.6	278148544.8	278	0.6	24193.9	12400	91573.9	1135516502.6	1135.5	2.5
Q3 2014	69229.4	1320	262033.3	345883928.3	346	0.8	24610.9	12400	93152.3	1155087980.6	1155.1	2.5
Q4 2014	64422.6	1130	243839.5	275538681.3	276	0.6	23956.9	12400	90676.9	1124393144.6	1124.4	2.5
Q1 2015	36941.3	1350	139822.8	188760807.7	189	0.4	22046.9	12700	83447.5	1059783459.6	1059.8	2.3
Q2 2015	68162.8	1280	257996.2	330235133.4	330	0.7	23191.6	8050	87780.2	706630658.3	706.6	1.6
Q3 2015	64333.0	1220	243500.4	297070494.1	297	0.7	24619.9	7810	93186.3	727785170.9	727.8	1.6
Q4 2015	59235.1	1190	224204.9	266803775.7	267	0.6	23657.6	7530	89544.0	674266440.5	674.3	1.5
Q1 2016	57274.0	1190	216782.1	257970687.1	258	0.6	24517.8	6070	92799.9	563295229.1	563.3	1.2
Q2 2016	61378.0	1780	232315.7	413521999.4	414	0.9	26506.3	8570	100326.3	859796780.9	859.8	1.9
Q3 2016	50104.2	1380	189644.4	261709267.9	262	0.6	22144.1	5840	83815.4	489482044.0	489.5	1.1
Q4 2016	31656.0	1430	119818.0	171339682.8	171	0.4	23646.8	3370	89503.1	301625575.1	301.6	0.7
Q1 2017	23526.8	1290	89048.9	114873130	115	0.3	24066.2	5320	91090.6	484601816.4	484.6	1.1
Q2 2017	23244.9	1290	87981.9	113496711	113	0.3	23685.0	3670	89647.7	329007150.8	329.0	0.7
Q3 2017	23937.3	1290	90602.7	116877457.8	117	0.3	24583.2	5150	93047.4	479194171.8	479.2	1.1
Q4 2017	22900.6	1120	86678.8	97080223.52	97	0.2	23779.6	4770	90005.8	429327599.2	429.3	0.9

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-4						TW4-22					
Quarter	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 2018	23103.4	1160	87446.4	101437788	101	0.2	23982.8	4530	90774.9	411210287.9	411.2	0.9
Q2 2018	18137.0	1050	68648.5	72080972.25	72	0.2	23256.6	3010	88026.2	264958955.3	265.0	0.6
Q3 2018	15366.0	1030	58160.3	59905119.3	60	0.1	21248.7	3600	80426.3	289534786.2	289.5	0.6
Q4 2018	15420.2	1140	58365.5	66536620.98	67	0.1	24171.0	2680	91487.2	245185789.8	245.2	0.5
Q1 2019	16655.0	1050	63039.2	66191133.75	66	0.1	26149.9	4310	98977.4	426592471.2	426.6	0.9
Q2 2019	14311.9	1070	54170.5	57962479.41	58	0.1	23073.1	4690	87331.7	409585595.6	409.6	0.9
Totals	2076190.7					25.0	618366.5					39.1

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-24						TW4-25					
Quarter	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	46.9	250995.5	11771687.2	11.8	0.026	124137.1	0.0	469858.9	0.0	0.0	0.0
Q4 2015	107799.1	25.3	408019.6	10322895.7	10.3	0.023	116420.1	0.0	440650.1	0.0	0.0	0.0
Q1 2016	100063.2	22.8	378739.2	8635254.0	8.6	0.019	115483.2	0.0	437103.9	0.0	0.0	0.0
Q2 2016	65233.6	69.6	246909.2	17184878.6	17.2	0.038	125606.0	0.0	475418.7	0.0	0.0	0.0
Q3 2016	51765.8	17.8	195933.6	3487617.2	3.5	0.008	104983.6	0.0	397362.9	0.0	0.0	0.0
Q4 2016	99522.5	20.8	376692.7	7835207.4	7.8	0.017	98681.2	0.0	373508.3	0.0	0.0	0.0
Q1 2017	99117.4	18.3	375159.4	6865416.3	6.9	0.015	161.2	1.15	610.1	701.7	0.0	0.0
Q2 2017	52808.7	17.2	199880.9	3437952.0	3.4	0.008	101617.2	0.0	384621.1	0.0	0.0	0.0
Q3 2017	55574.6	17.8	210349.9	3744227.5	3.7	0.008	124138.4	0.0	469863.8	0.0	0.0	0.0
Q4 2017	106021.4	16.0	401291.0	6420656.0	6.4	0.014	116731.9	0.0	441830.2	0.0	0.0	0.0

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-24						TW4-25					
Quarter	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 2018	96900.2	24.9	366767.3	9132504.7	9.1	0.020	116991.7	0.0	442813.6	0.0	0.0	0.0
Q2 2018	53117.9	49.2	201051.3	9891721.6	9.9	0.022	117758.3	0.0	445715.2	0.0	0.0	0.0
Q3 2018	53142.5	35.0	201144.4	7040052.7	7.0	0.016	111657.5	0.0	422623.6	0.0	0.0	0.0
Q4 2018	101606.4	21.0	384580.3	8076185.5	8.1	0.018	114458.2	0.0	433224.3	0.0	0.0	0.0
Q1 2019	97701.0	28.1	369798.3	10391331.8	10.4	0.023	90789.5	0.0	343638.3	0.0	0.0	0.0
Q2 2019	53197.3	28.8	201351.8	5798931.3	5.8	0.013	88302.0	0.0	334223.1	0.0	0.0	0.0
Totals	3113778.2					0.970	2832341.5					0.0

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-01						TW4-02					
Quarter	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	92994.4	105083696.9	105.1	0.23	24156.7	1840	91433.1	168236921.5	168.2	0.37
Q2 2015	23989.9	1260	90801.8	114410232.1	114.4	0.25	22029.9	1650	83383.2	137582233.0	137.6	0.30
Q3 2015	23652.0	1060	89522.8	94894189.2	94.9	0.21	21586.9	1310	81706.4	107035405.6	107.0	0.24
Q4 2015	20764.3	1040	78592.9	81736590.5	81.7	0.18	21769.8	2070	82398.7	170565294.5	170.6	0.38
Q1 2016	19255.6	974	72882.4	70987502.4	71.0	0.16	20944.6	1970	79275.3	156172362.7	156.2	0.34
Q2 2016	19588.2	1140	74141.3	84521124.2	84.5	0.19	20624.0	2070	78061.8	161588008.8	161.6	0.36
Q3 2016	15613.5	1160	59097.1	68552633.1	68.6	0.15	17487.4	1780	66189.8	117817860.0	117.8	0.26
Q4 2016	16756.8	1330	63424.5	84354569.0	84.4	0.19	19740.6	1600	74718.2	119549073.6	119.5	0.26
Q1 2017	16931.8	519	64086.9	33261081.9	33.3	0.07	19869.7	1570	75206.8	118074698.8	118.1	0.26
Q2 2017	18200.2	977	68887.8	67303338.6	67.3	0.15	18716.7	1940	70842.7	137434856.4	137.4	0.30
Q3 2017	17413.6	958	65910.5	63142236.0	63.1	0.14	19338.8	1310	73197.4	95888539.0	95.9	0.21
Q4 2017	14089.8	556	53329.9	29651420.5	29.7	0.07	17327.6	1610	65585.0	105591795.3	105.6	0.23

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-01						TW4-02					
Quarter	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 2018	12505.7	70.4	47334.1	3332318.8	3.3	0.01	16232.3	764	61439.3	46939591.2	46.9	0.10
Q2 2018	10814.8	942	40934.0	38559845.0	38.6	0.09	16051.4	949	60754.5	57656067.0	57.7	0.13
Q3 2018	9727.3	1010	36817.8	37186008.8	37.2	0.08	14927.2	980	56499.5	55369463.0	55.4	0.12
Q4 2018	9836.7	752	37231.9	27998395.9	28.0	0.06	15464.1	822	58531.6	48112990.4	48.1	0.11
Q1 2019	10603.6	87.2	40134.6	3499739.4	3.50	0.01	16169.9	1040.0	61203.1	63651194.4	63.65	0.14
Q2 2019	**9393.9**	**1040.0**	**35555.9**	**36978148.0**	**36.98**	**0.08**	**13893.7**	**1360.0**	**52587.7**	**71519210.1**	**71.52**	**0.16**
Totals	293706.9					2.30	336331.3					4.27

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-11						TW4-21					
Quarter	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	37466.6	91793119.8	91.8	0.20	NA	NA	NA	NA	NA	NA
Q2 2015	5243.3	2710	19845.9	53782363.3	53.8	0.12	30743.7	366	116364.9	42589555.0	42.6	0.09
Q3 2015	3584.4	1120	13567.0	15194988.5	15.2	0.03	125285.4	281	474205.2	133251672.2	133.3	0.29
Q4 2015	4110.3	2730	15557.5	42471935.4	42.5	0.09	134774.9	339	510123.0	172931695.8	172.9	0.38
Q1 2016	3676.2	2660	13914.4	37012349.2	37.0	0.08	125513.3	390	475067.8	185276457.8	185.3	0.41
Q2 2016	3760.4	3340	14233.1	47538600.8	47.5	0.10	132248.7	545	500561.3	272805924.6	272.8	0.60
Q3 2016	2953.8	3200	11180.1	35776425.6	35.8	0.08	110381.9	456	417795.5	190514744.1	190.5	0.42
Q4 2016	3050.2	3180	11545.0	36713122.3	36.7	0.08	130311.3	434	493228.3	214061069.4	214.1	0.47
Q1 2017	2984.2	3310	11295.2	37387102.1	37.4	0.08	54333.5	598	205652.3	122980073.9	123.0	0.27
Q2 2017	2845.9	3370	10771.7	36300735.2	36.3	0.08	60969.7	224	230770.3	51692550.4	51.7	0.11
Q3 2017	2830.0	3290	10711.6	35240999.5	35.2	0.08	120116.2	537	454639.8	244141581.7	244.1	0.54
Q4 2017	2612.7	2880	9889.1	28480520.2	28.5	0.06	126492.5	466	478774.1	223108736.4	223.1	0.49

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-11						TW4-21					
Quarter	**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 2018	2571.0	3090	9731.2	30069516.2	30.1	0.07	117832.0	421	445994.1	187763524.5	187.8	0.41
Q2 2018	2513.5	2800	9513.6	26638073.0	26.6	0.06	116681.0	532	441637.6	234951195.2	235.0	0.52
Q3 2018	2170.2	3050	8214.2	25053331.4	25.1	0.06	110001.4	476	416355.3	198185122.3	198.2	0.44
Q4 2018	2379.5	2930	9006.4	26388774.0	26.4	0.06	121686.3	585	460582.8	269440914.0	269.4	0.59
Q1 2019	2342.4	2820	8866.0	25002074.9	25.00	0.1	123264	323	466554.6	150697141.8	150.70	0.3
Q2 2019	2195.1	2970	8308.5	24676106.9	24.68	0.1	106893.6	734	404592.3	296970730.6	297.0	0.7
Totals	61721.8					1.45	1847529.5					7.04

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-37						TW4-39					
Quarter	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2015	29206.0	30200	110544.7	3338450242.0	3338.5	7.4	NA	NA	NA	NA	NA	NA
Q3 2015	118063.9	19100	446871.9	8535252554.7	8535.3	18.8	NA	NA	NA	NA	NA	NA
Q4 2015	111737.5	19500	422926.4	8247065531.3	8247.1	18.2	NA	NA	NA	NA	NA	NA
Q1 2016	111591.0	17500	422371.9	7391508862.5	7391.5	16.3	NA	NA	NA	NA	NA	NA
Q2 2016	119241.2	16200	451327.9	7311512660.4	7311.5	16.1	NA	NA	NA	NA	NA	NA
Q3 2016	98377.6	15900	372359	5920511534.4	5920.5	13.1	NA	NA	NA	NA	NA	NA
Q4 2016	101949.1	16400	385877	6328388433.4	6328.4	14.0	3598.3	2800	13620	38134783.4	38.1	0.1
Q1 2017	97071.7	18000	367416	6613494921.0	6613.5	14.6	103117.8	6460	390301	2521343639.6	2521.3	5.56
Q2 2017	93191.3	15800	352729	5573119313.9	5573.1	12.3	41313.0	5560	156370	869415559.8	869.4	1.92
Q3 2017	81749.3	15000	309421	4641316507.5	4641.3	10.2	34546.3	10000	130758	1307577455.0	1307.6	2.9
Q4 2017	87529.6	15500	331300	5135142808.0	5135.1	11.3	68180.2	552	258062	142450255.5	142.5	0.3

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-37						TW4-39					
Quarter	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 2018	84769.3	12900	320852	4138988226.5	4139.0	9.1	59262.2	2870	224307	643762315.5	643.8	1.4
Q2 2018	83653.1	14400	316627	4559428562.4	4559.4	10.1	34259.8	7160	129673	928461135.9	928.5	2.0
Q3 2018	77457.8	14100	293178	4133806599.3	4133.8	9.1	33473.4	8180	126697	1036379979.4	1036.4	2.3
Q4 2018	76271.4	15200	288687	4388046184.8	4388.0	9.7	37003.6	6520	140059	913182241.5	913.2	2.0
Q1 2019	77591	13300	293683.4	3905989871.7	3906.0	8.6	49117	885	185907.5	164528107.9	164.5	0.4
Q2 2019	64950.1	16200	245836.1	3982545281.7	3982.5	8.8	34285.7	8640	129771.4	1121224675.7	1121.2	2.5
Totals	1514401.3					207.6	498157.2					21.4

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-40						TW4-41							
Quarter	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)	Total (pounds)	Total Volume Pumped (gallons)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	286.9	9648896.0
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	904550.0
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0	559220.0
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	550560.0
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.8	503034.0
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.8	527290.0
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.8	724960.0
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.7	786870.0
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0	664830.0
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	1007400.0
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.5	399710.0
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.4	1047335.0
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5	492485.0
Q2 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5	721374.1
Q3 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	376623.4
Q4 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.9	1041817.3
Q1 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.9	696533.0
Q2 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.1	449131.1
Q3 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1	462334.5
Q4 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8	468706.3
Q1 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	448486.3
Q2 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.4	400415.2
Q3 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6	390229.0
Q4 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1	358000.0
Q1 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.7	634286.1
Q2 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	768953.4
Q3 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.1	950505.6
Q4 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.3	990119.8
Q1 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	859297.5
Q2 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.9	838057.9
Q3 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2	852987.2
Q4 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.6	673905.9
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.9	458271.4
Q2 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.3	539592.9
Q3 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33.4	816299.8
Q4 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.3	847567.8
Q1 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.6	819302.3
Q2 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.4	832418.9
Q3 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.7	686543.4
Q4 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.6	750667.4
Q1 2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.2	667899.1
Q2 2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.6	657232.5
Q3 2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.5	754250.1
Q4 2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.9	841953.7

Table G-1

Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-40						TW4-41							
Quarter	**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)**	**Total (pounds)**	**Total Volume Pumped (gallons)**
Q1 2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.0	810330.4
Q2 2018	NA	NA	NA	NA	NA	NA	73711.2	1400	278997	390595648.8	390.6	0.9	20.1	803034.5
Q3 2018	NA	NA	NA	NA	NA	NA	44981.6	1390	170255	236654734.4	236.7	0.5	17.6	733435.6
Q4 2018	NA	NA	NA	NA	NA	NA	35431.6	1320	134108	177023110.1	177.0	0.4	20.8	800443.6
Q1 2019	NA	NA	NA	NA	NA	NA	31904	1220	120755.1	147321253.7	147.3	0.3	16.2	811589.4
Q2 2019	81762.7	263	309471.8	81391088.5	81.4	0.2	25146.5	1320	95179.5	125636943.3	125.6	0.3	26.2	750139.6
Totals	81762.7					0.2	211174.4					2.4	1155.0	43498113.3

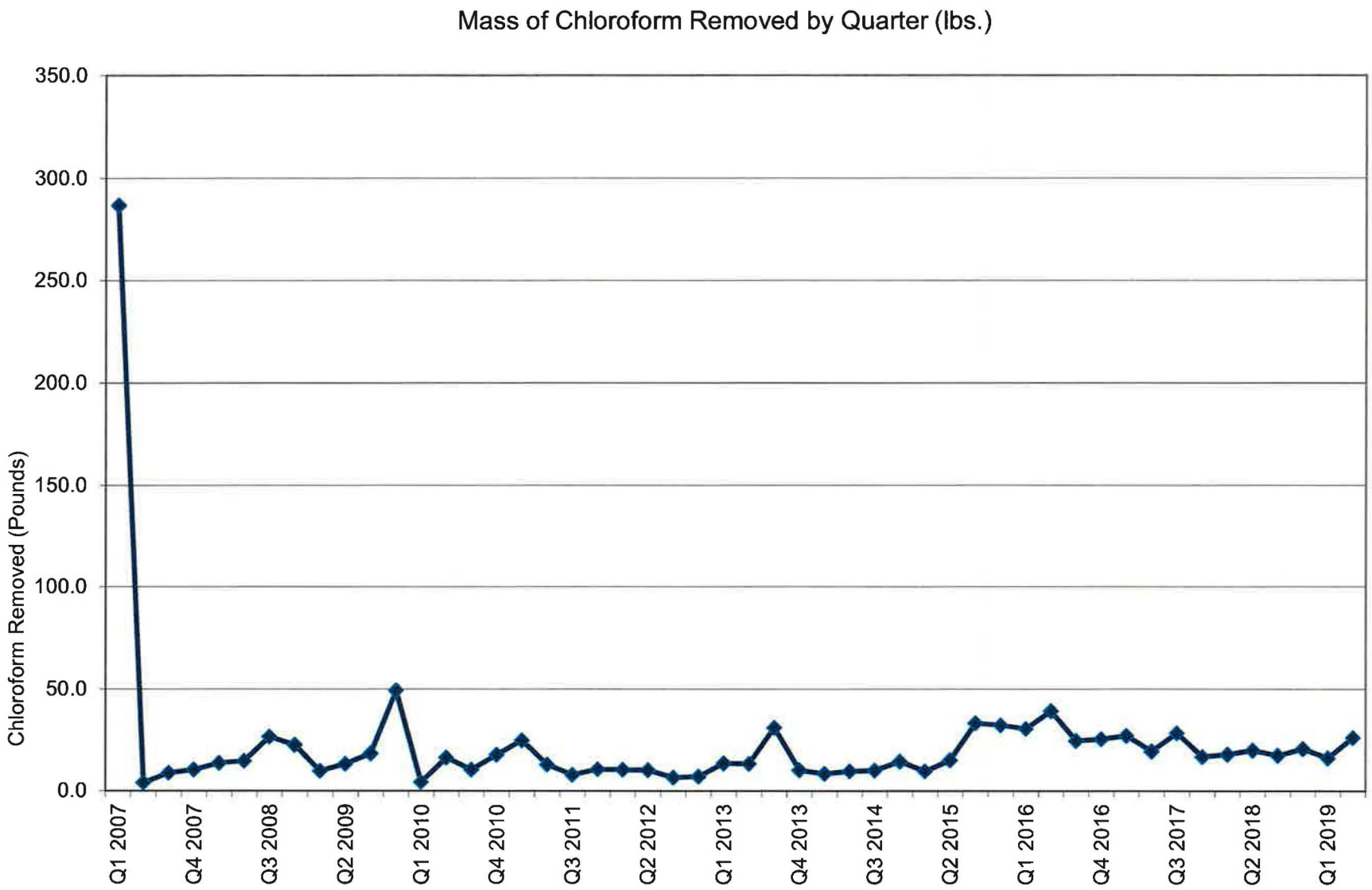
Table G-2
Chloroform Mass Removal Per Well Per Quarter

Quarter*	MW-4 (lbs.)	TW4-15 (MW-26) (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	TW4-01 (lbs.)	TW4-02 (lbs.)	TW4-11 (lbs.)	TW4-21 (lbs.)	TW4-37 (lbs.)	TW4-39 (lbs.)	TW4-40 (lbs.)	TW4-41 (lbs.)	Quarter Totals (lbs.)
Q1 2007	36.8	12.9	150.2	87.0	NA	NA	NA	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	NA	NA	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	NA	NA	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	NA	NA	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	NA	NA	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	NA	NA	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	NA	NA	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	NA	NA	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	NA	NA	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	NA	NA	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	NA	NA	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	NA	NA	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5
Q2 2010	1.5	1.0	6.8	5.9	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5
Q3 2010	1.3	1.2	2.0	4.9	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6
Q4 2010	1.1	0.5	7.7	7.4	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.9
Q1 2011	1.1	0.2	12.9	9.6	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.9
Q2 2011	1.2	0.8	5.3	4.6	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.1
Q3 2011	1.2	0.4	1.1	4.1	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1
Q4 2011	1.2	0.8	2.7	4.8	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8
Q1 2012	1.1	0.6	0.8	7.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6
Q2 2012	1.1	0.7	0.7	6.9	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.4
Q3 2012	1.1	0.7	1.4	2.4	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6
Q4 2012	0.9	0.3	2.0	3.2	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	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	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	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	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	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	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	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	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	NA	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	NA	NA	NA	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	NA	NA	NA	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	NA	NA	NA	32.3
Q1 2016	0.9	0.4	7.6	2.6	0.6	1.2	0.02	0.0	0.16	0.34	0.08	0.41	16.3	NA	NA	NA	30.6
Q2 2016	1.3	0.4	13.0	4.4	0.9	1.9	0.04	0.0	0.19	0.36	0.10	0.60	16.1	NA	NA	NA	39.4
Q3 2016	1.0	0.5	5.2	2.4	0.6	1.1	0.01	0.0	0.15	0.26	0.08	0.42	13.1	NA	NA	NA	24.7
Q4 2016	1.0	0.4	5.8	2.3	0.4	0.7	0.017	0.0	0.19	0.26	0.08	0.47	14.0	0.1	NA	NA	25.6
Q1 2017	0.9	0.3	1.1	2.6	0.3	1.1	0.015	0.0	0.07	0.26	0.08	0.27	14.6	5.6	NA	NA	27.2
Q2 2017	0.9	0.5	0.5	1.9	0.3	0.7	0.008	0.0	0.15	0.30	0.08	0.11	12.3	1.9	NA	NA	19.6
Q3 2017	1.1	0.3	8.3	3.4	0.3	1.1	0.008	0.0	0.14	0.21	0.08	0.54	10.2	2.9	NA	NA	28.5
Q4 2017	1.2	0.6	0.1	1.4	0.2	0.9	0.014	0.0	0.07	0.23	0.06	0.49	11.3	0.3	NA	NA	16.9
Q1 2018	1.2	0.3	2.4	1.8	0.2	0.9	0.020	0.0	0.01	0.10	0.07	0.41	9.1	1.4	NA	NA	18.0
Q2 2018	1.1	0.4	2.8	1.3	0.2	0.6	0.022	0.0	0.09	0.13	0.06	0.52	10.1	2.0	NA	0.9	20.1
Q3 2018	1.0	0.4	1.7	1.1	0.1	0.6	0.016	0.0	0.08	0.12	0.06	0.44	9.1	2.3	NA	0.5	17.6
Q4 2018	1.1	0.3	4.7	1.0	0.1	0.5	0.018	0.0	0.06	0.11	0.06	0.59	9.7	2.0	NA	0.4	20.8
Q1 2019	1.1	0.2	2.0	1.9	0.1	0.9	0.023	0.0	0.01	0.14	0.06	0.33	8.6	0.4	NA	0.3	16.2
Q2 2019	1.0	0.3	9.7	1.5	0.1	0.9	0.013	0.0	0.08	0.16	0.1	0.7	8.8	2.5	0.2	0.3	26.2
Well Totals	101.2	36.0	417.8	288.4	25.0	39.1	0.970	0.0	2.30	4.27	1.45	7.04	207.6	21.4	0.2	2.4	**1155.0**

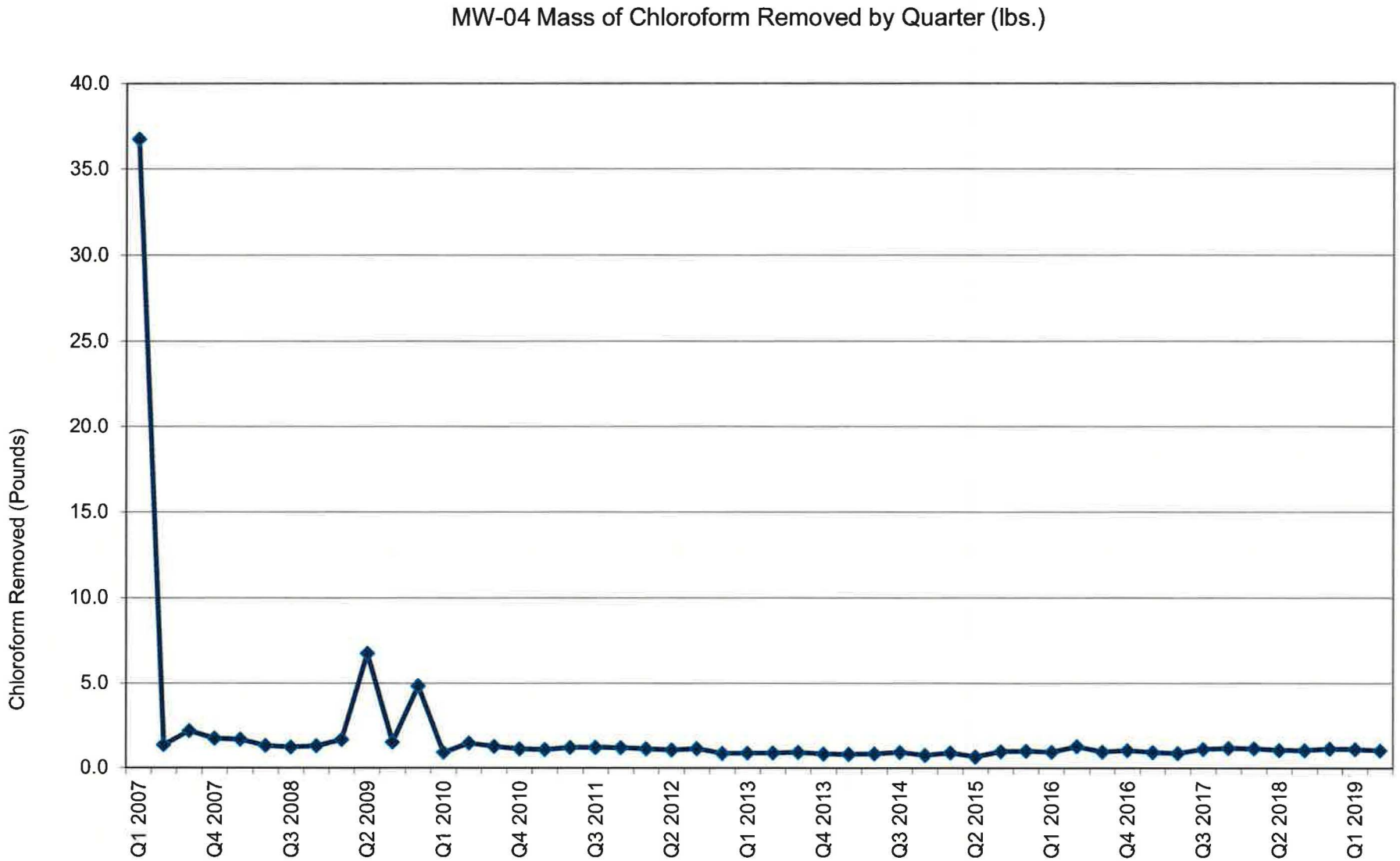
* Q1 2007 represents the cumulative total prior to and including Q1 2007.

Table G-3 Well Pumping Rates and Volumes

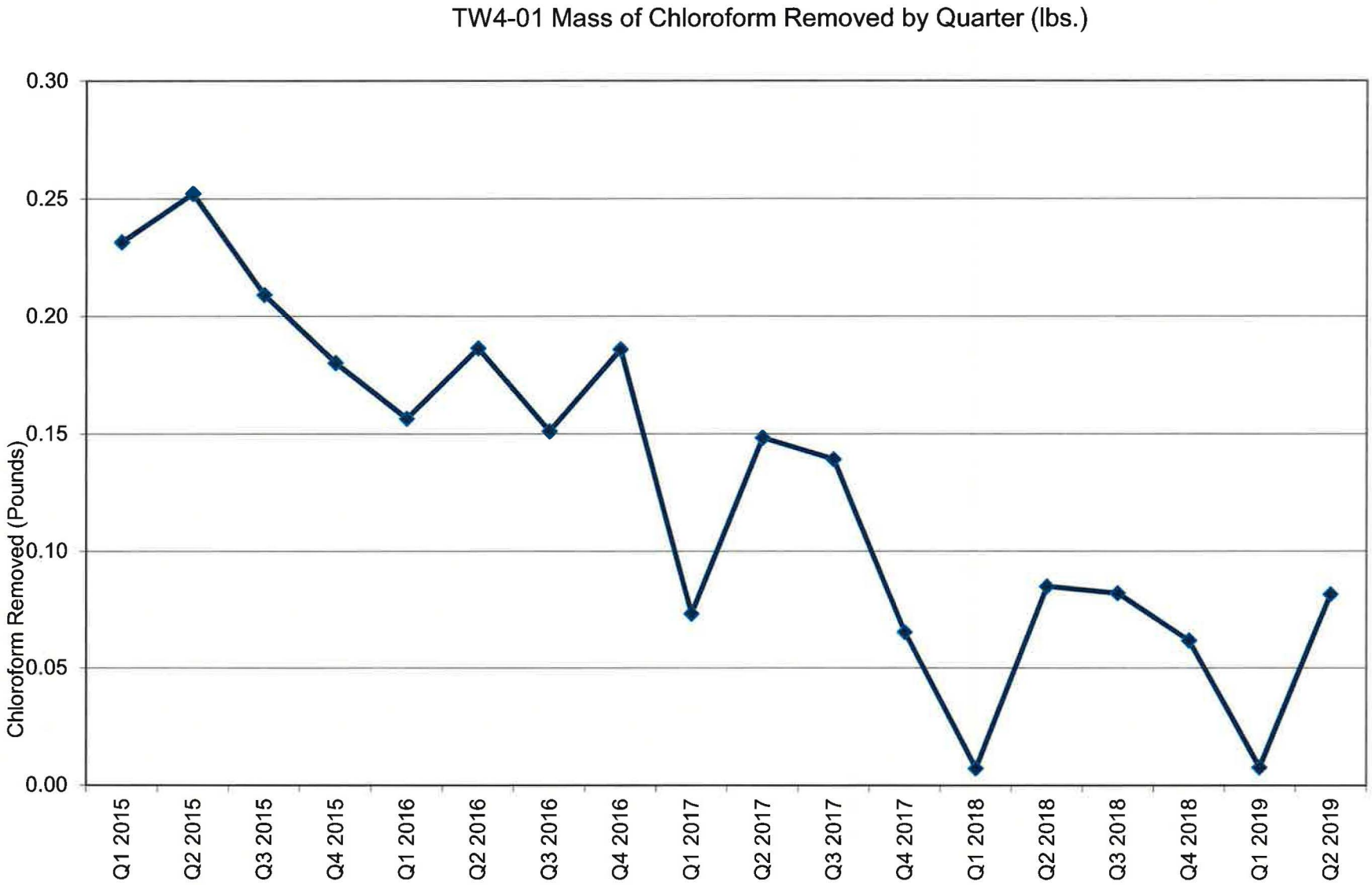
Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	94540.7	3.7
MW-26	24050.2	11.4
TW4-19	100704.0	17.7
TW4-20	13439.2	7.0
TW4-4	14311.9	16.3
TWN-2	43432.2	17.8
TW4-22	23073.1	18.0
TW4-24	53197.3	16.0
TW4-25	88302.0	11.5
TW4-01	9393.9	14.3
TW4-02	13893.7	17.0
TW4-11	2195.1	16.2
TW4-21	106893.6	17.3
TW4-37	64950.1	17.8
TW4-39	34285.7	18.0
TW4-40	81762.7	14.9
TW4-41	25146.5	4.2

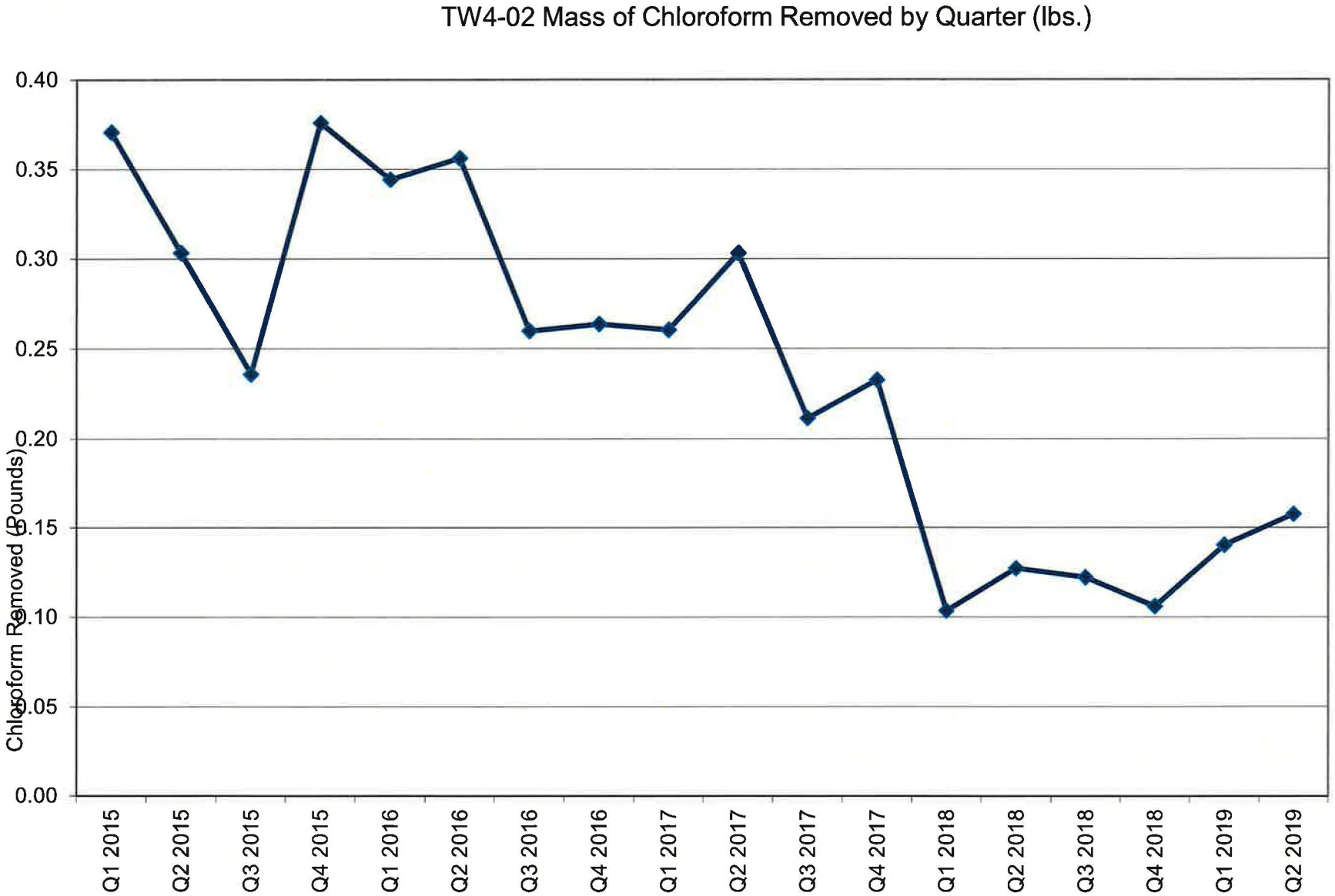


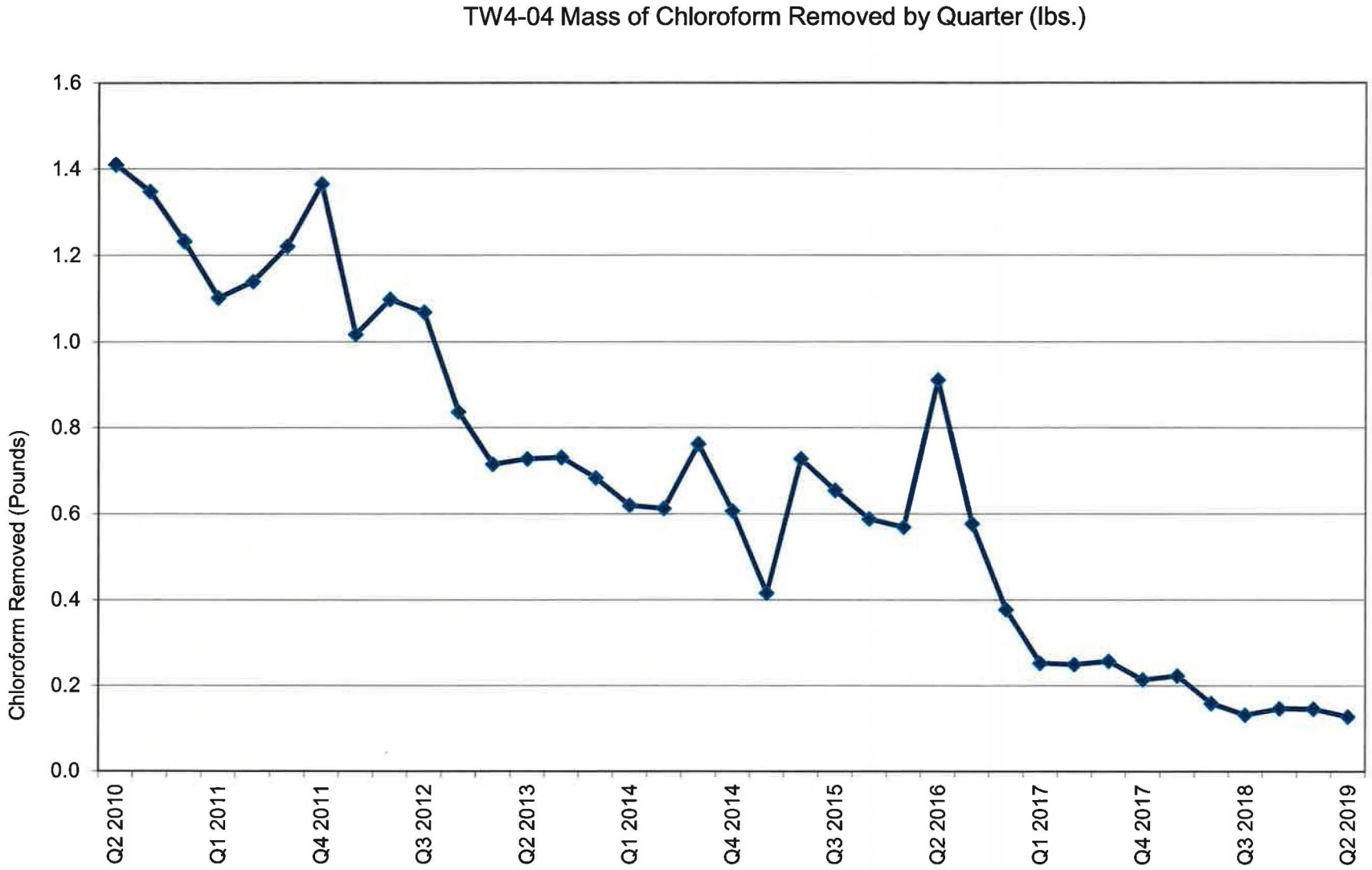
Q1 2007 represents the cumulative total prior to and including Q1 2007.

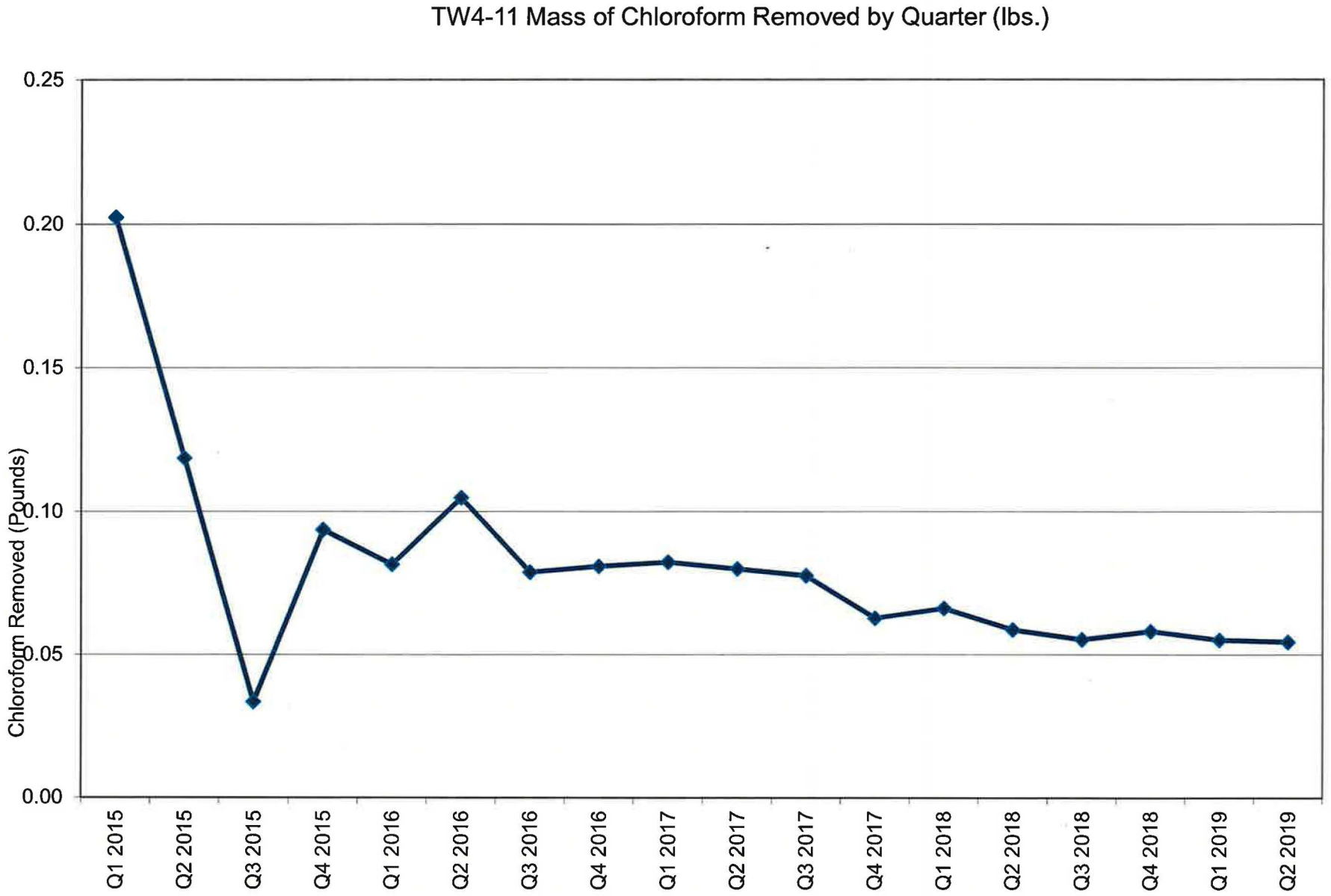


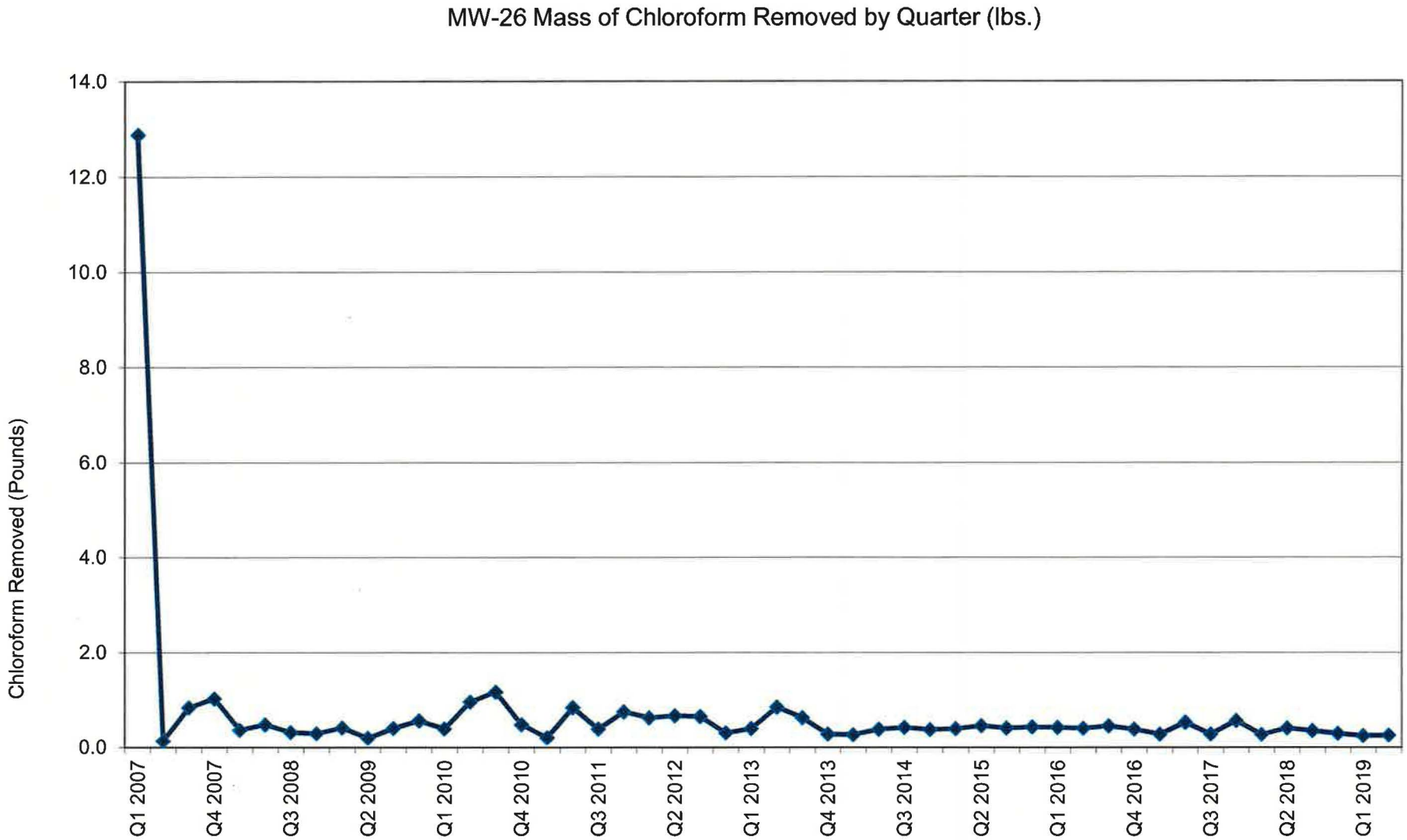
Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

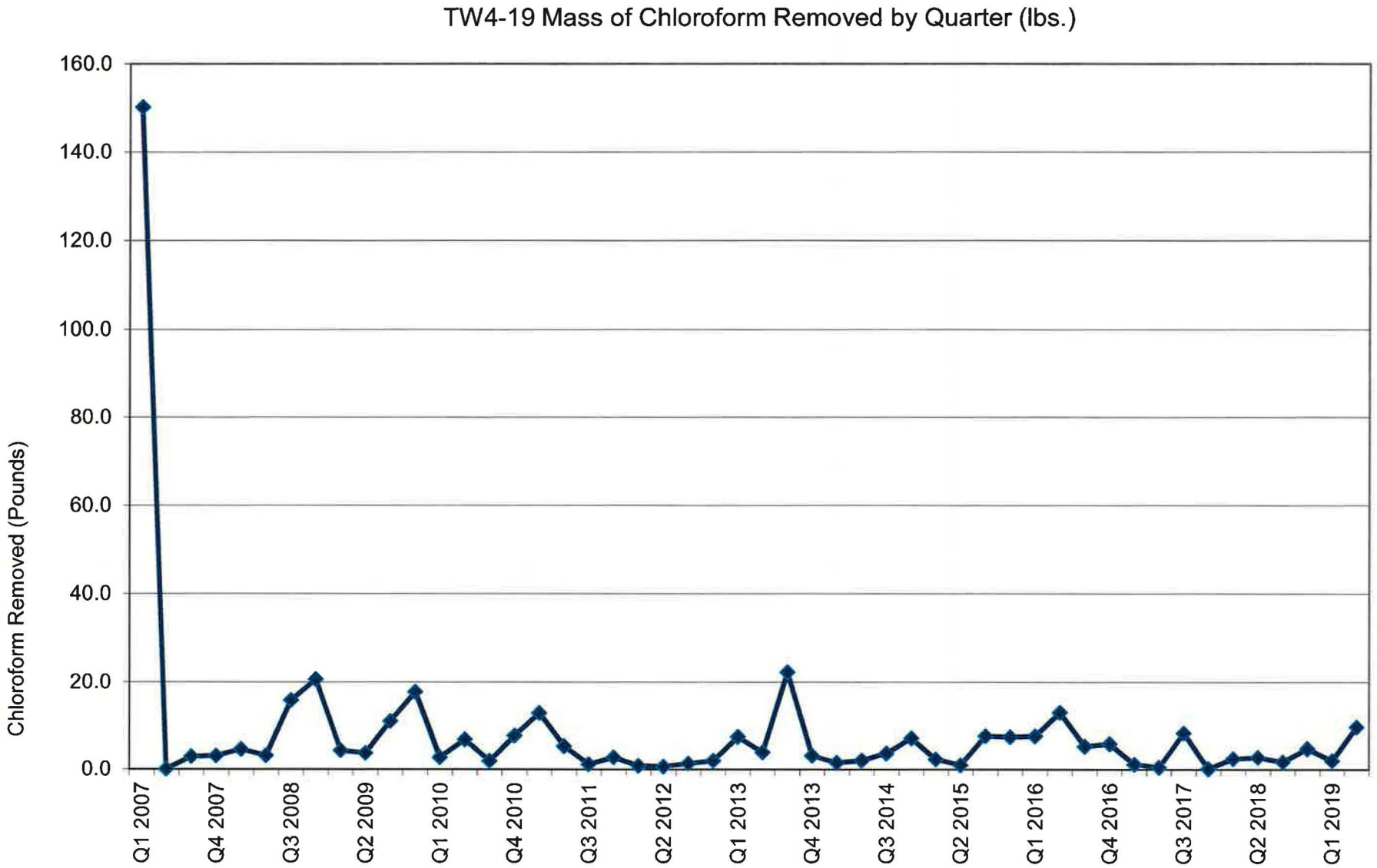

TW4-02 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-04 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Q2 2010
Q1 2011
Q4 2011
Q3 2012
Q2 2013
Q1 2014
Q4 2014
Q3 2015
Q2 2016
Q1 2017
Q4 2017
Q3 2018
Q2 2019

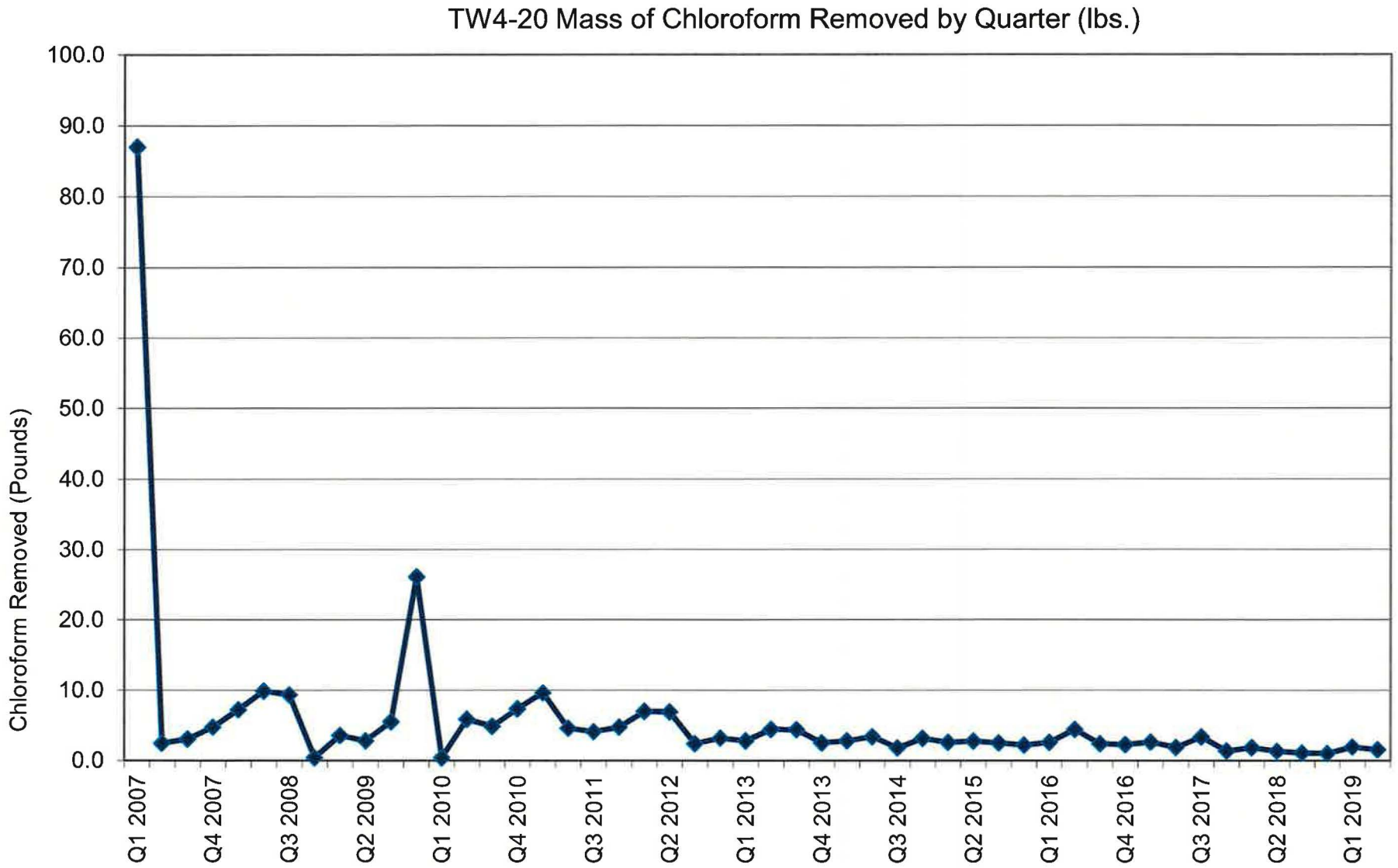

TW4-11 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019



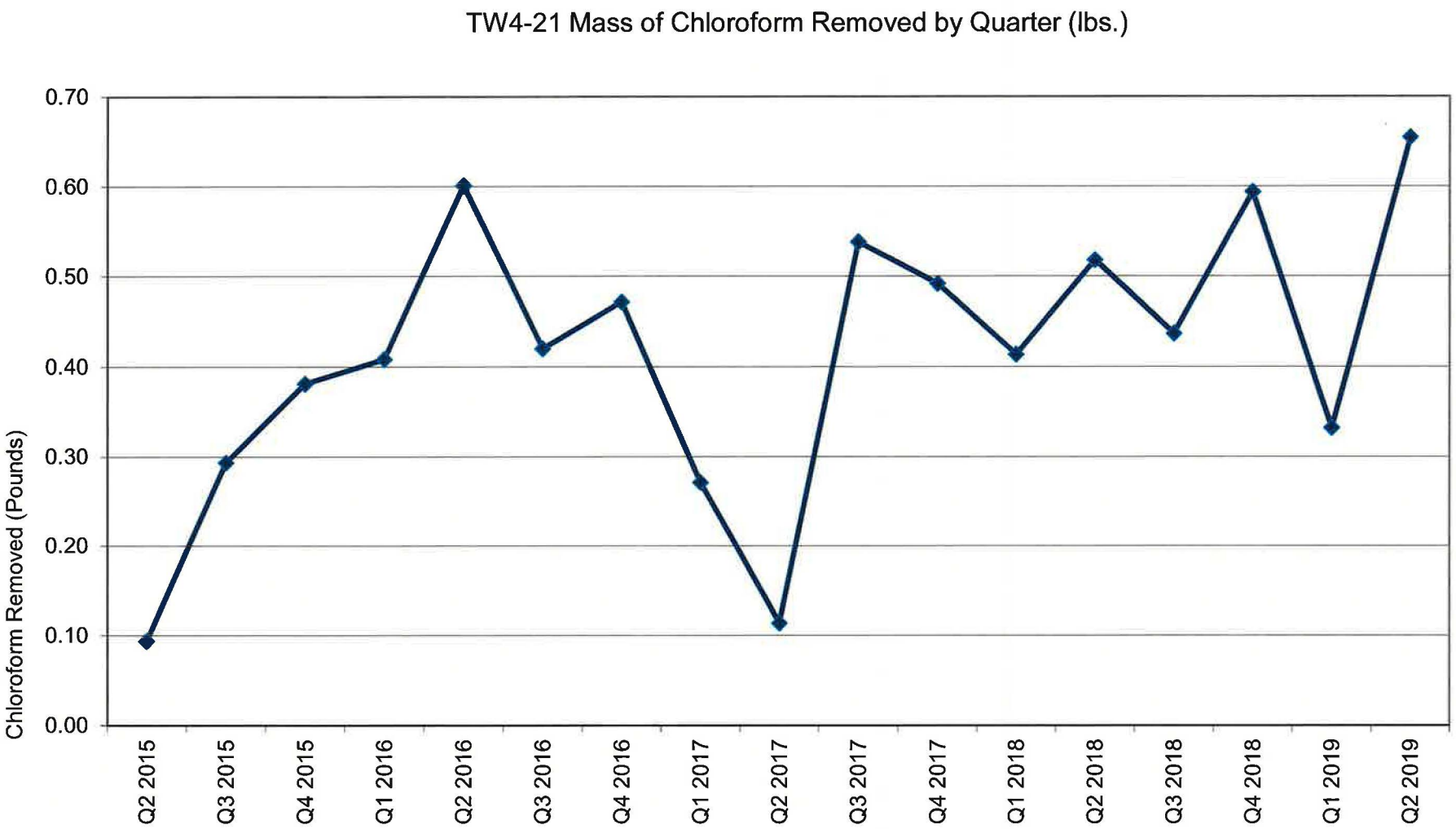
Q1 2007 represents the cumulative total prior to and including Q1 2007.

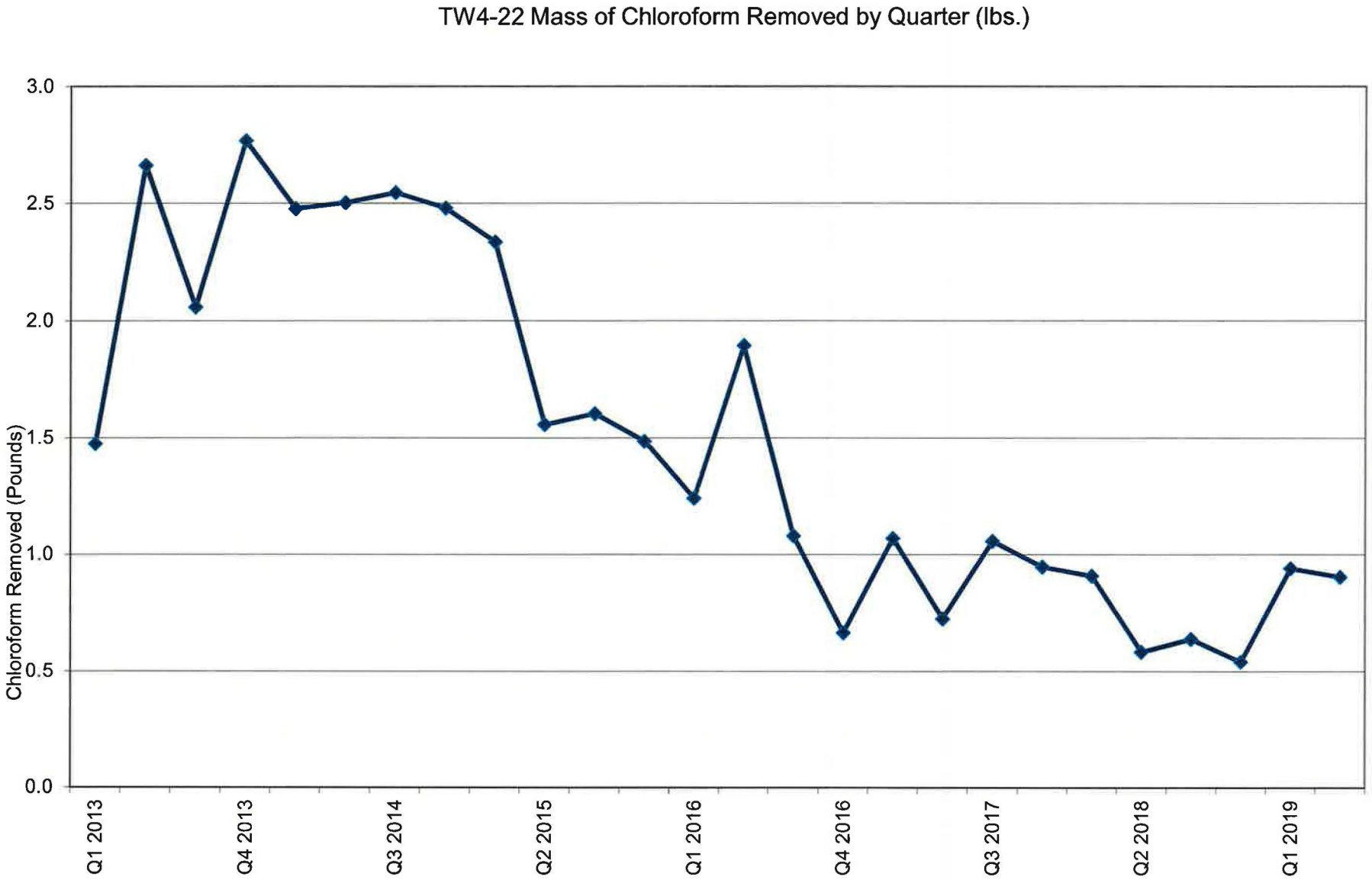


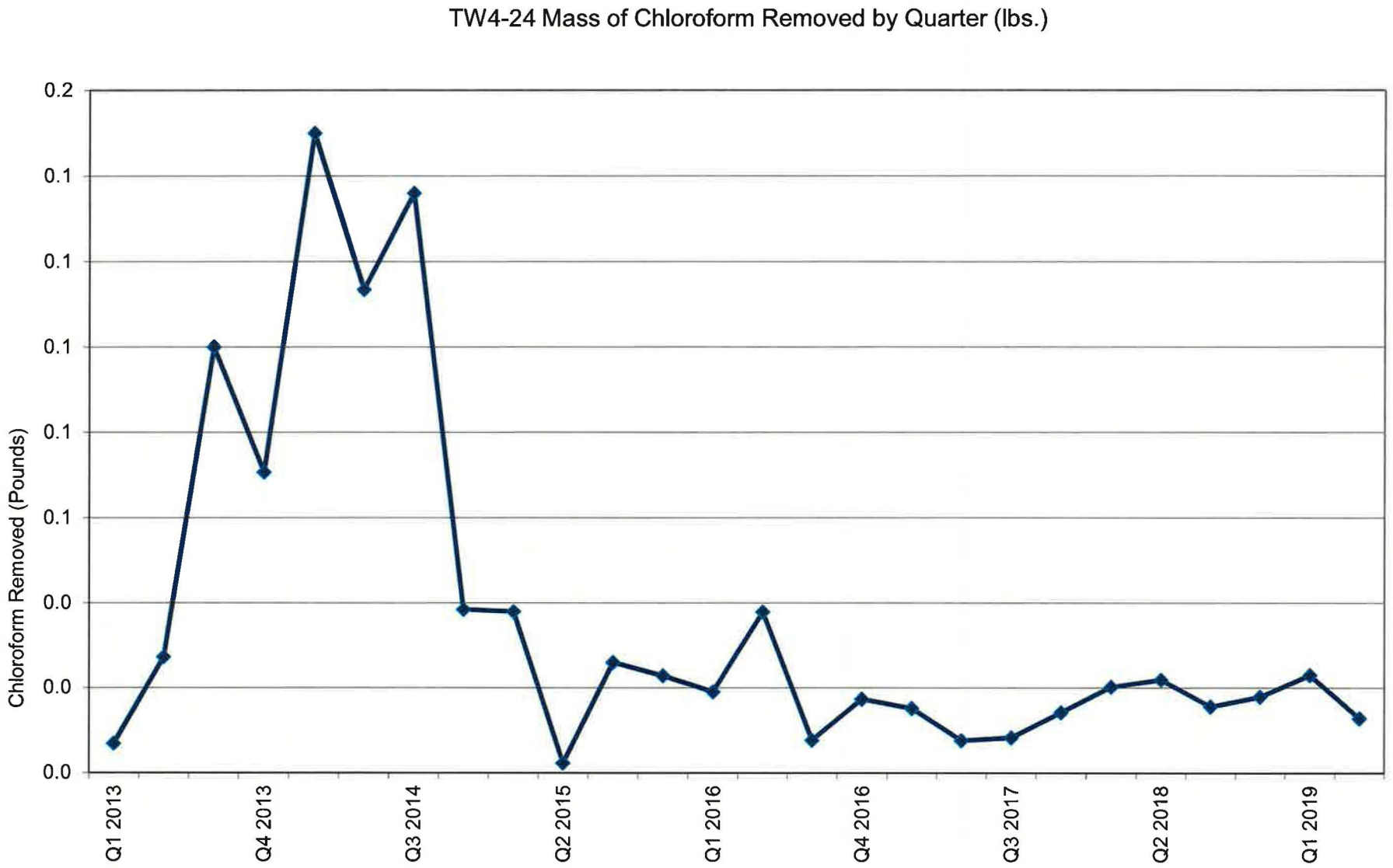
Q1 2007 represents the cumulative total prior to and including Q1 2007.

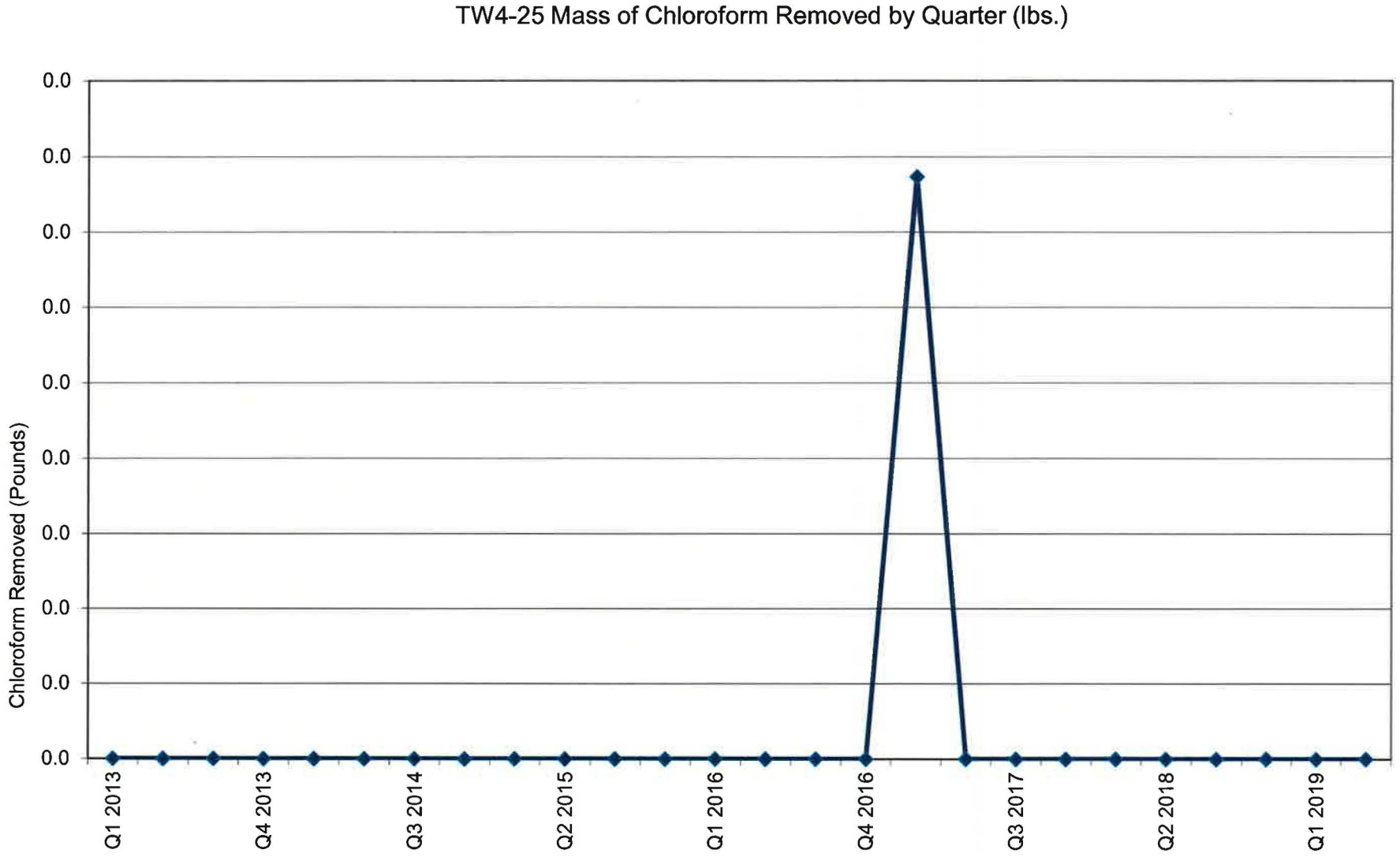


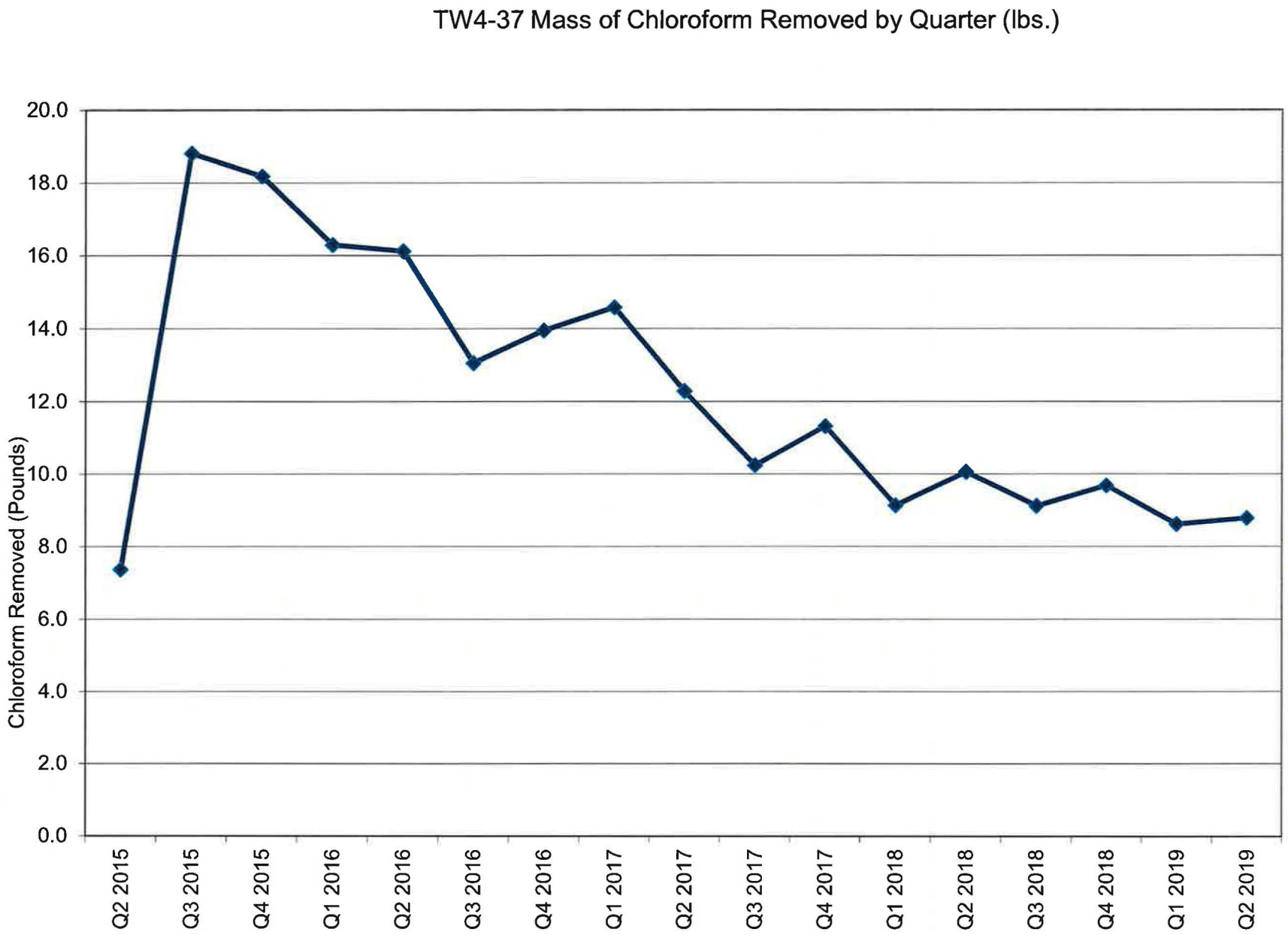
Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-21 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

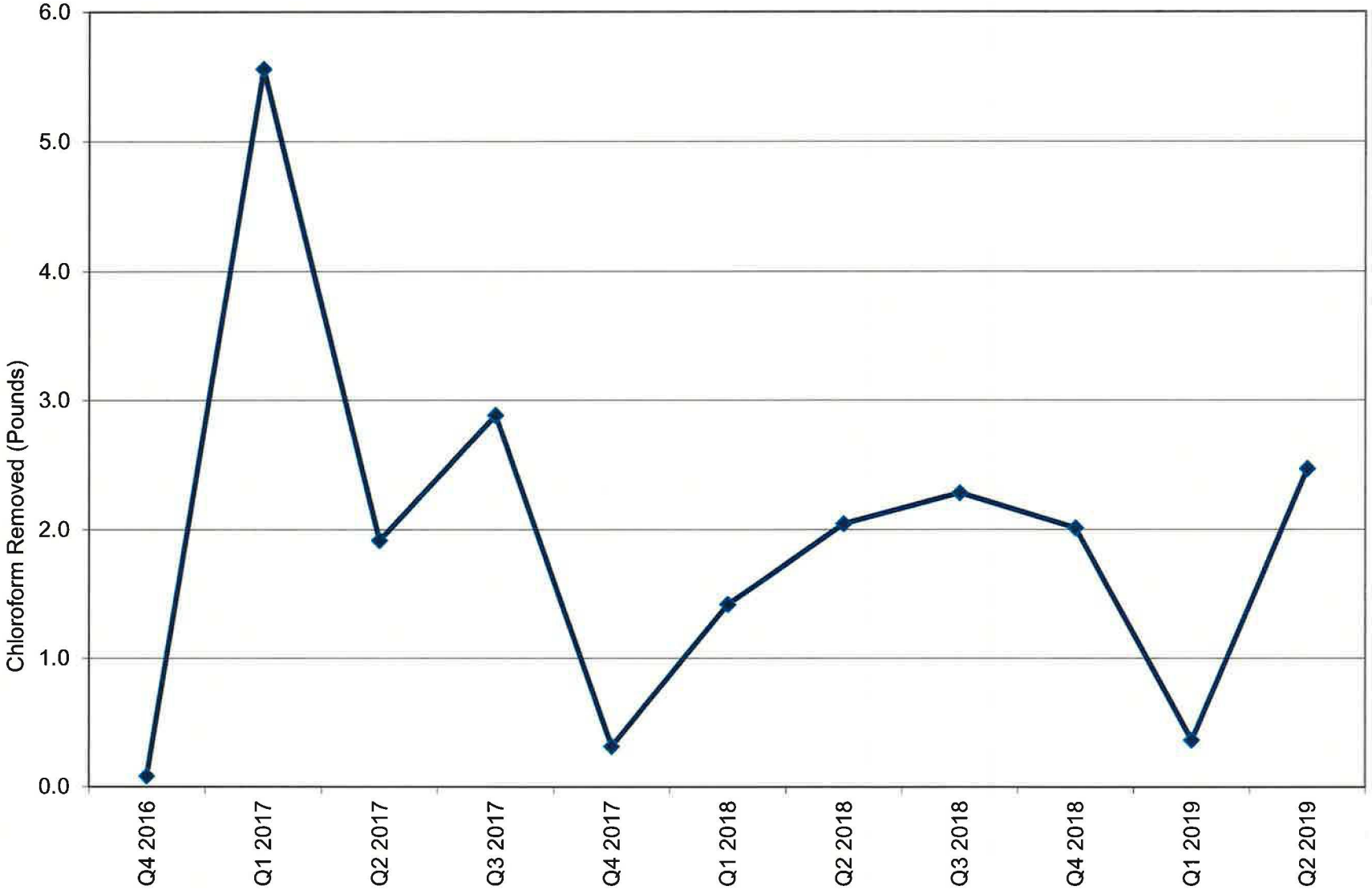

TW4-22 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016
Q3 2017
Q2 2018
Q1 2019

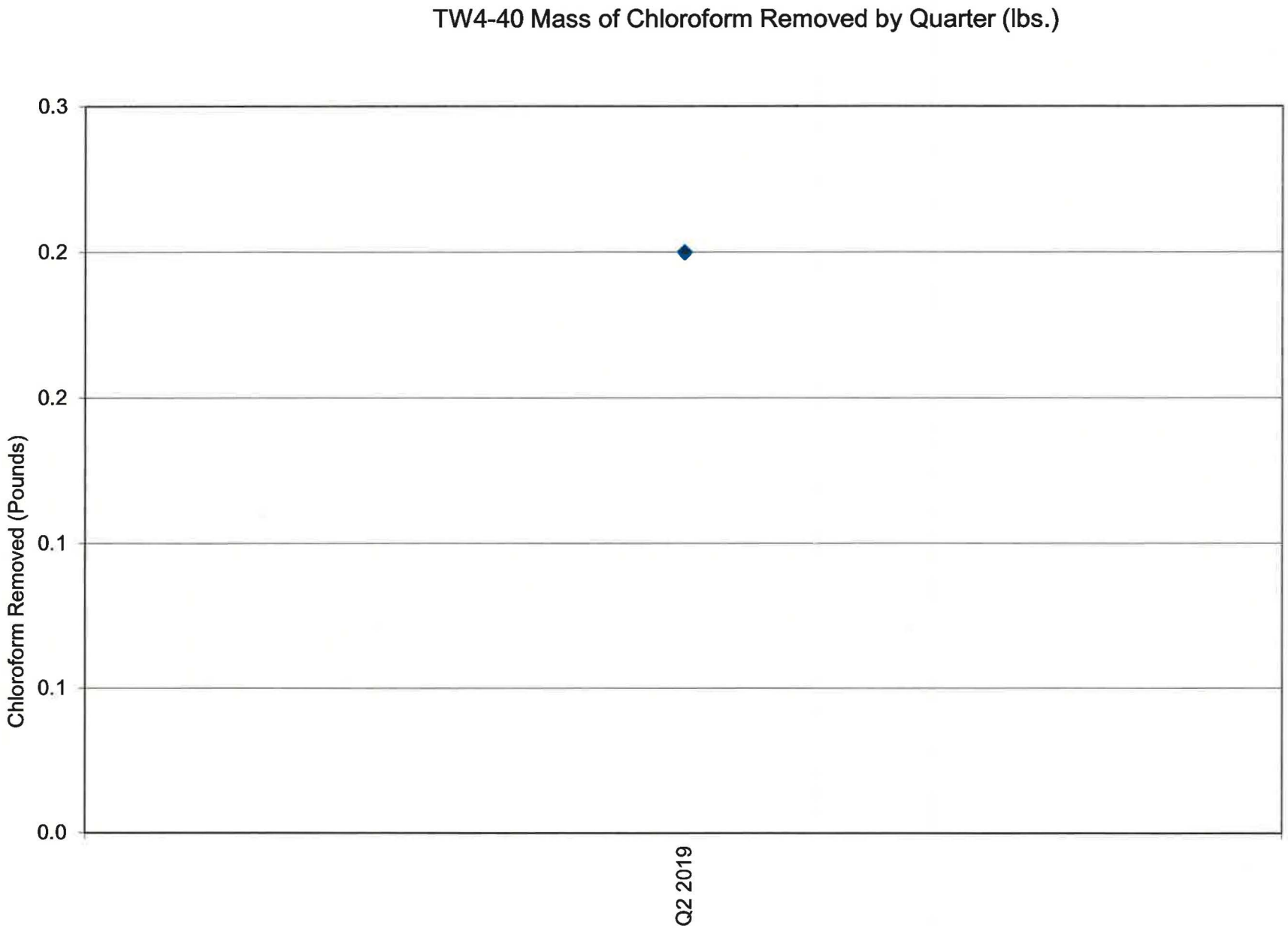

TW4-24 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016
Q3 2017
Q2 2018
Q1 2019

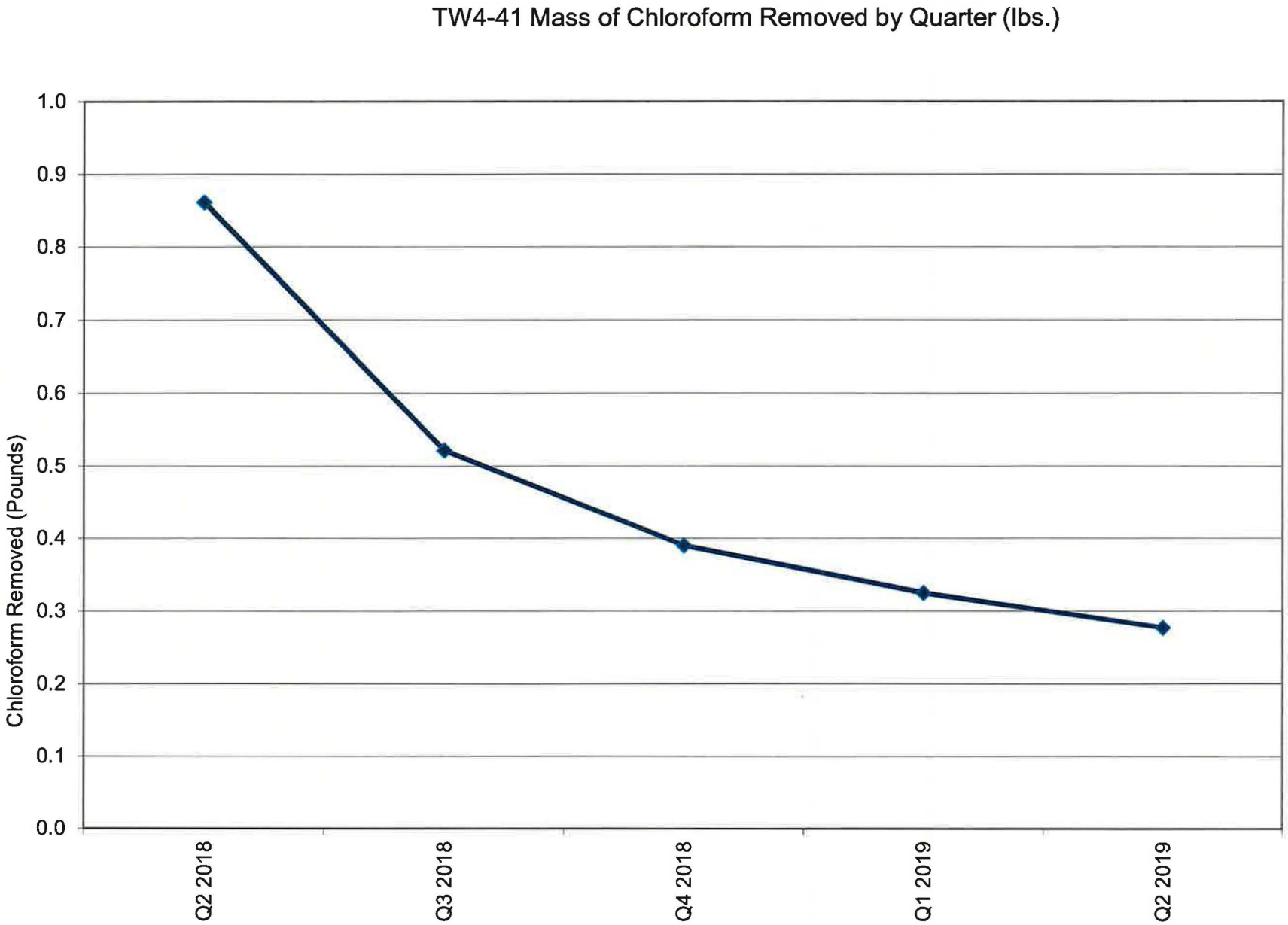

TW4-25 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016
Q3 2017
Q2 2018
Q1 2019

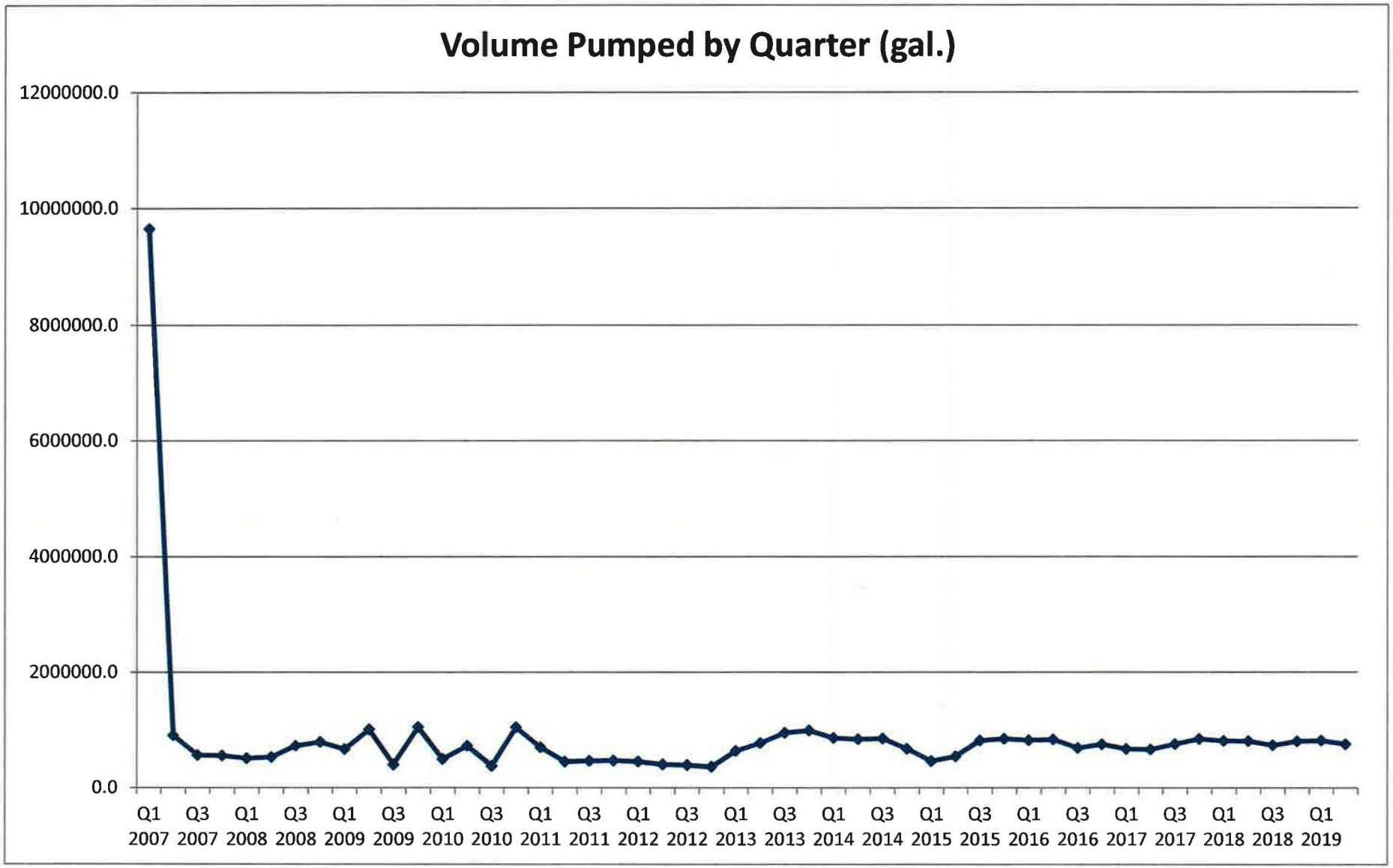

TW4-37 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

TW4-39 Mass of Chloroform Removed by Quarter (lbs.)

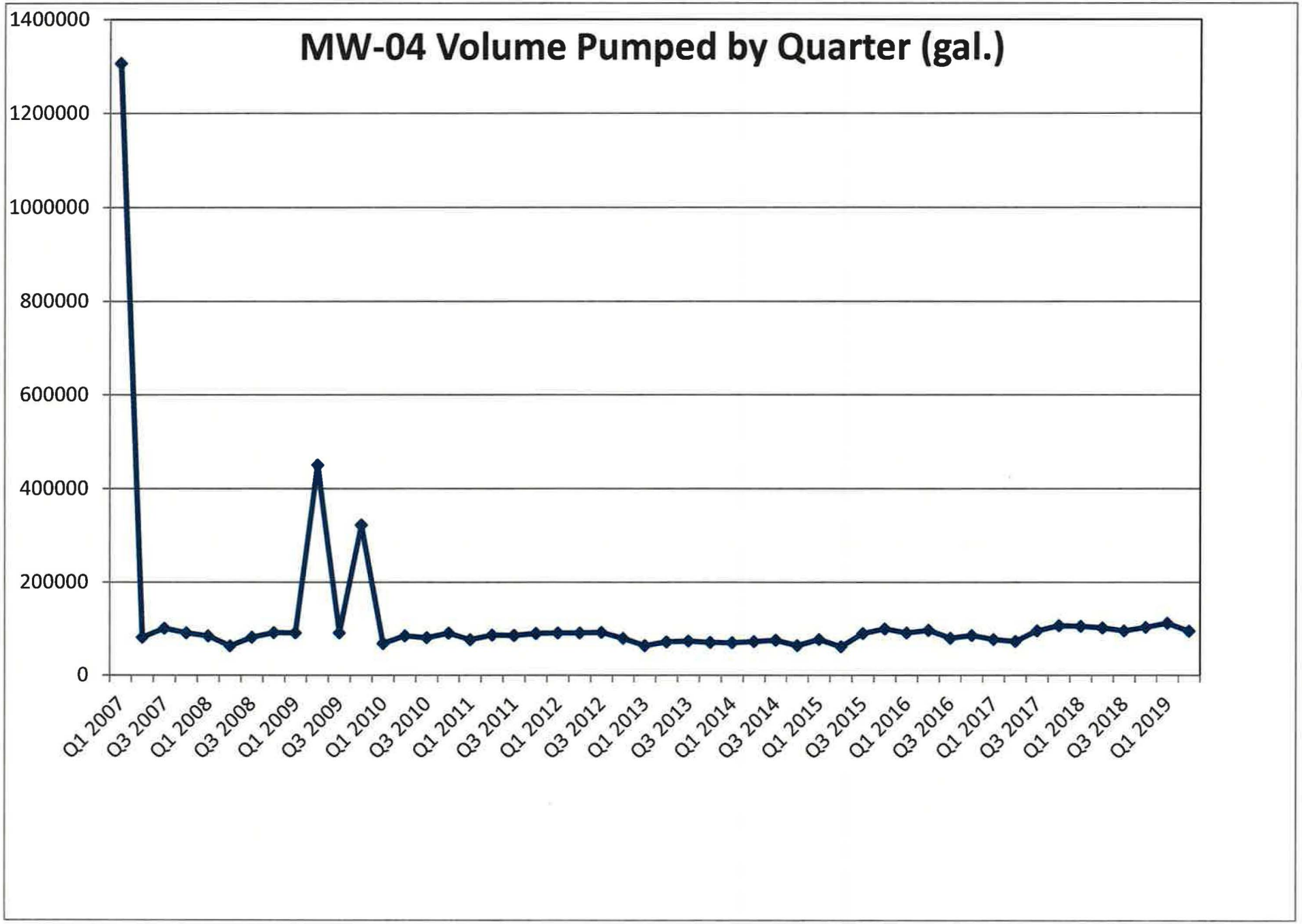



TW4-40 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.3
0.2
0.2
0.1
0.1
0.0
Q2 2019

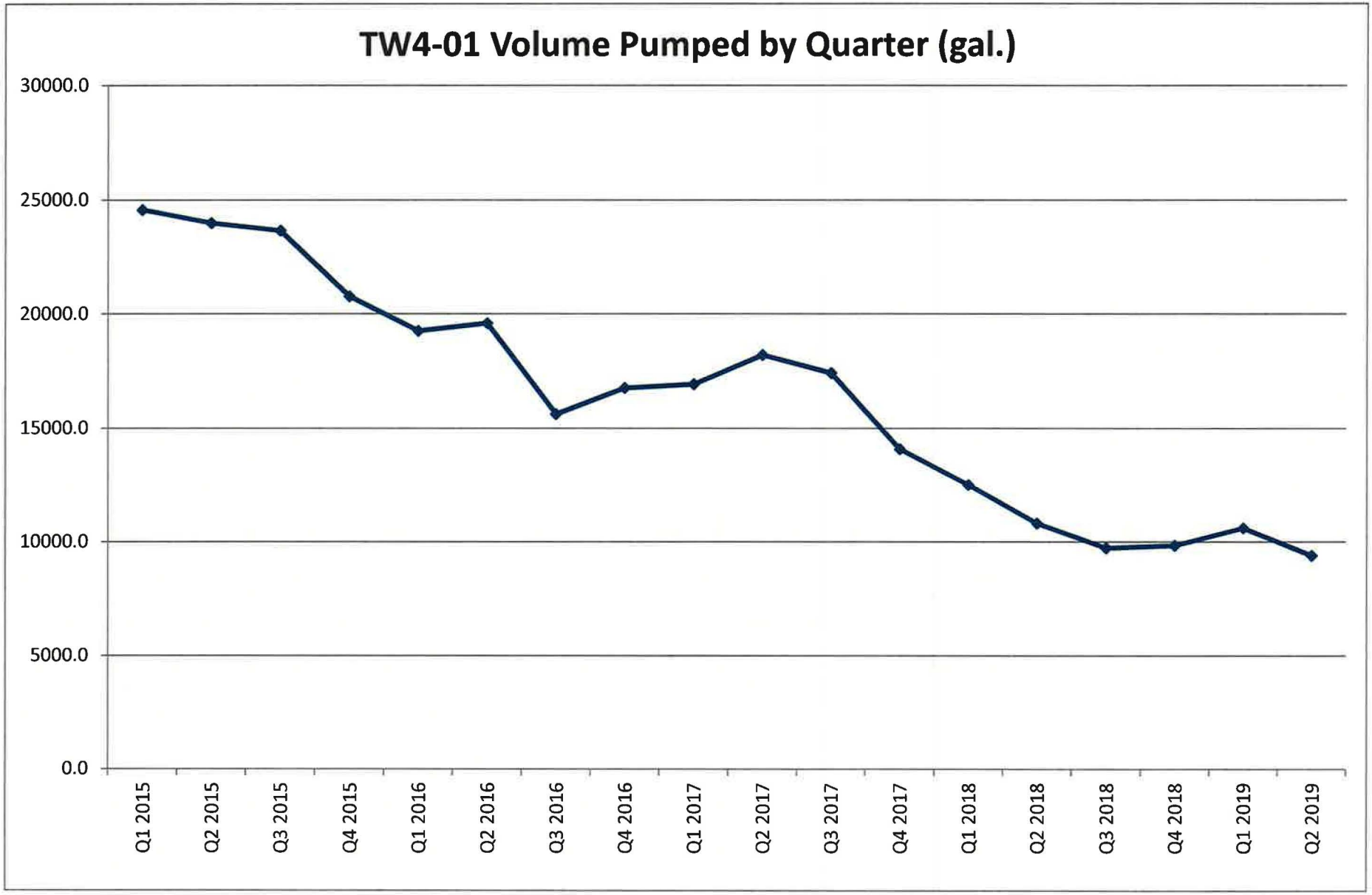

TW4-41 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

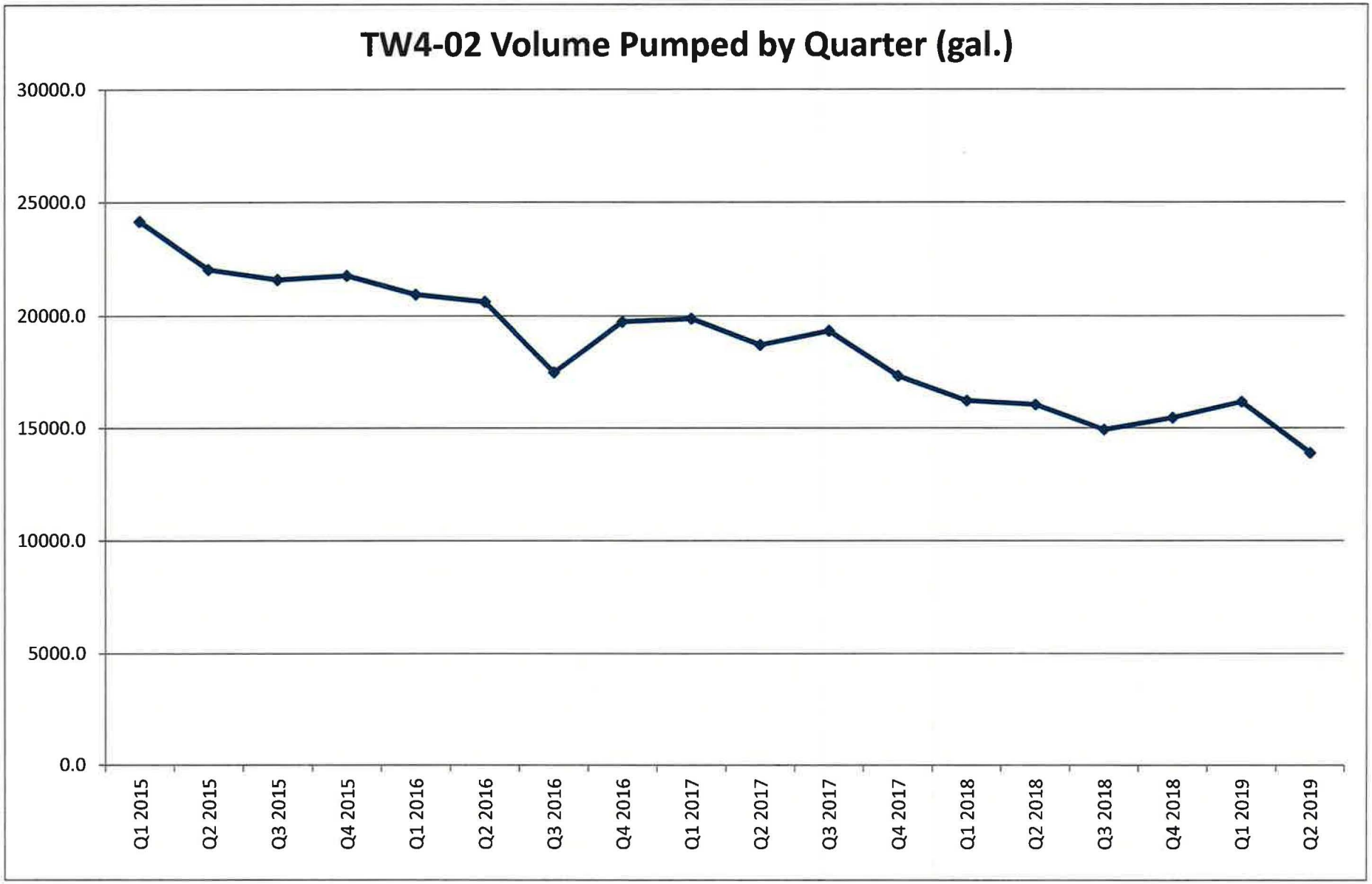


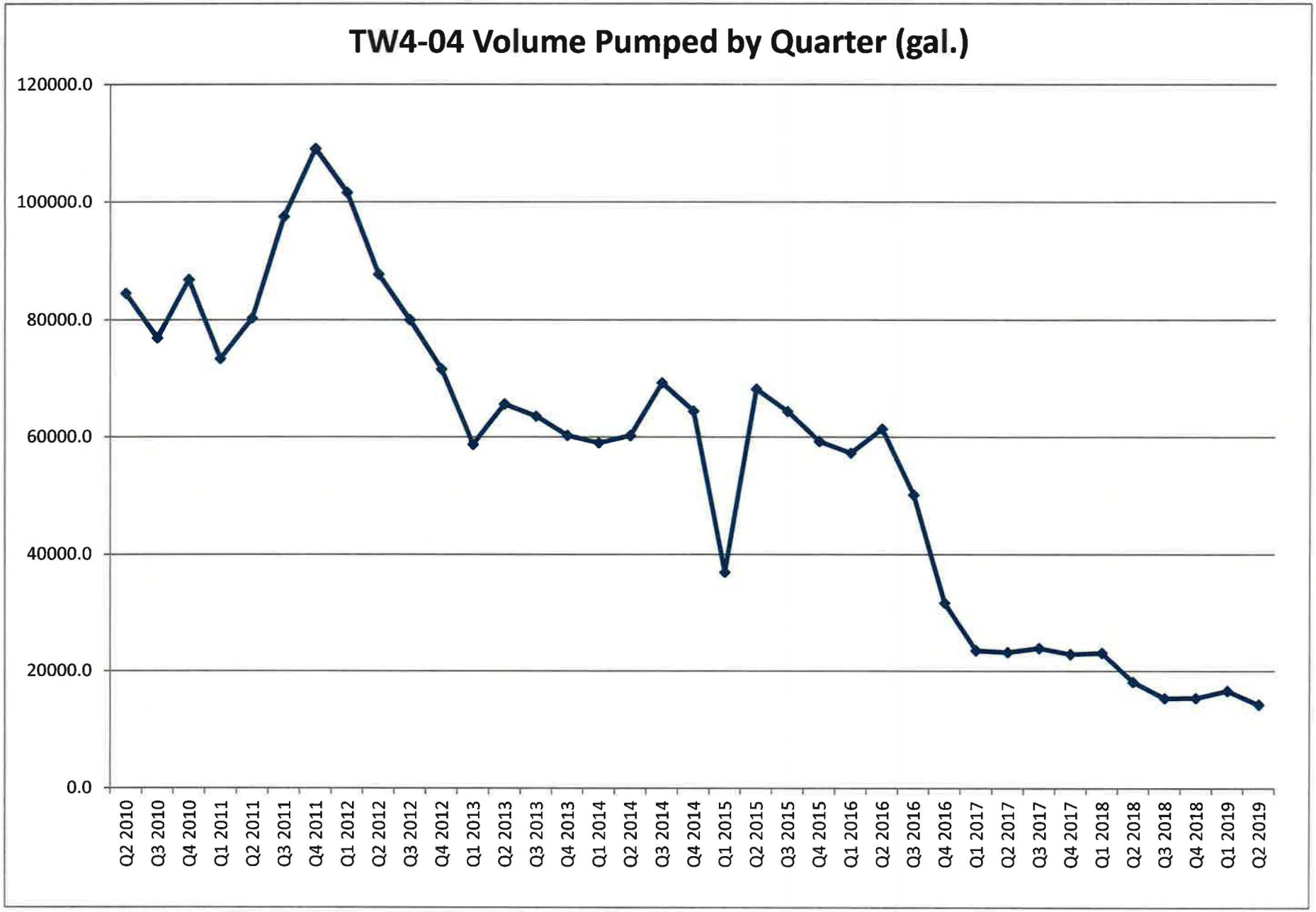
Q1 2007 represents the cumulative total prior to and including Q1 207.

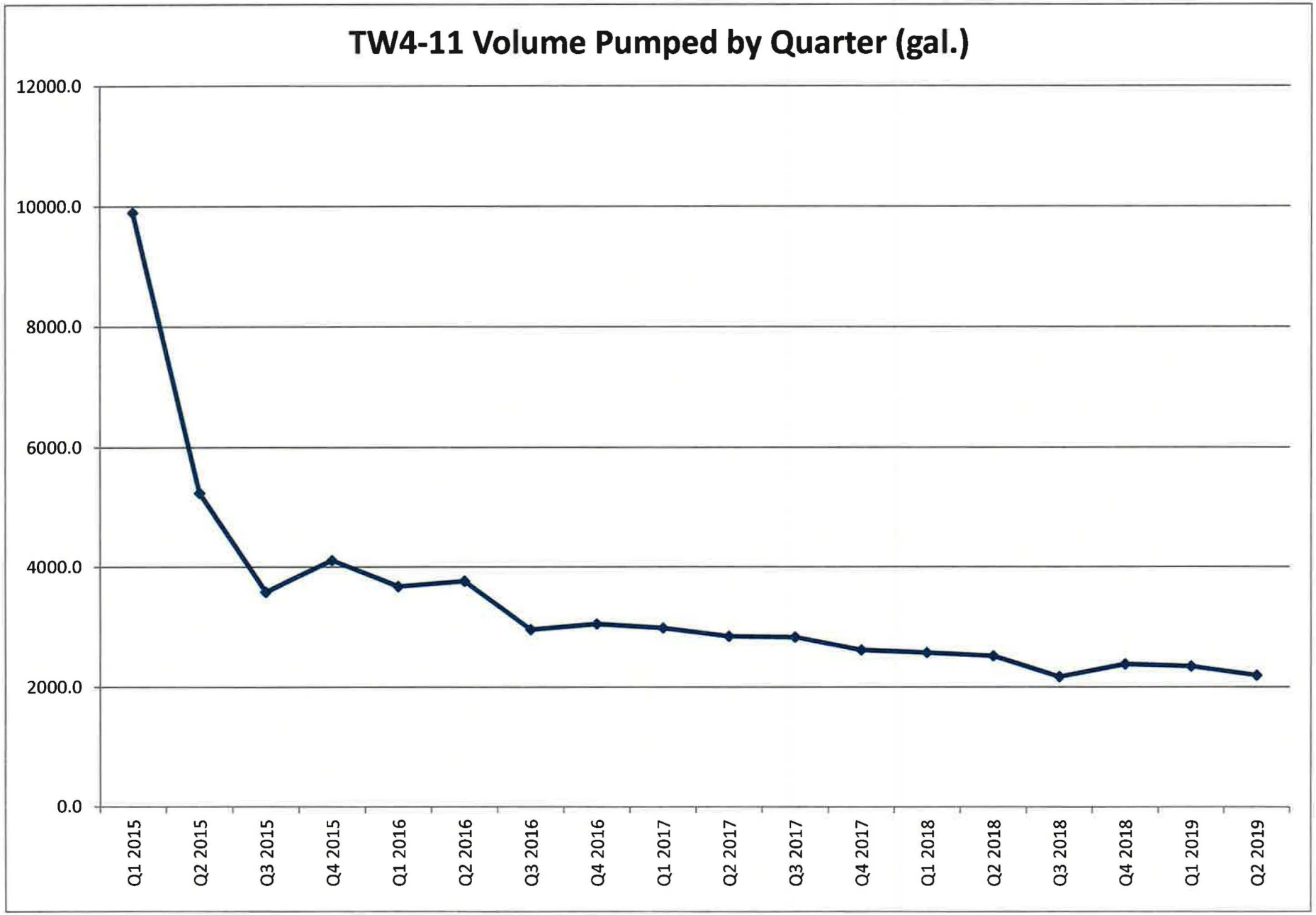


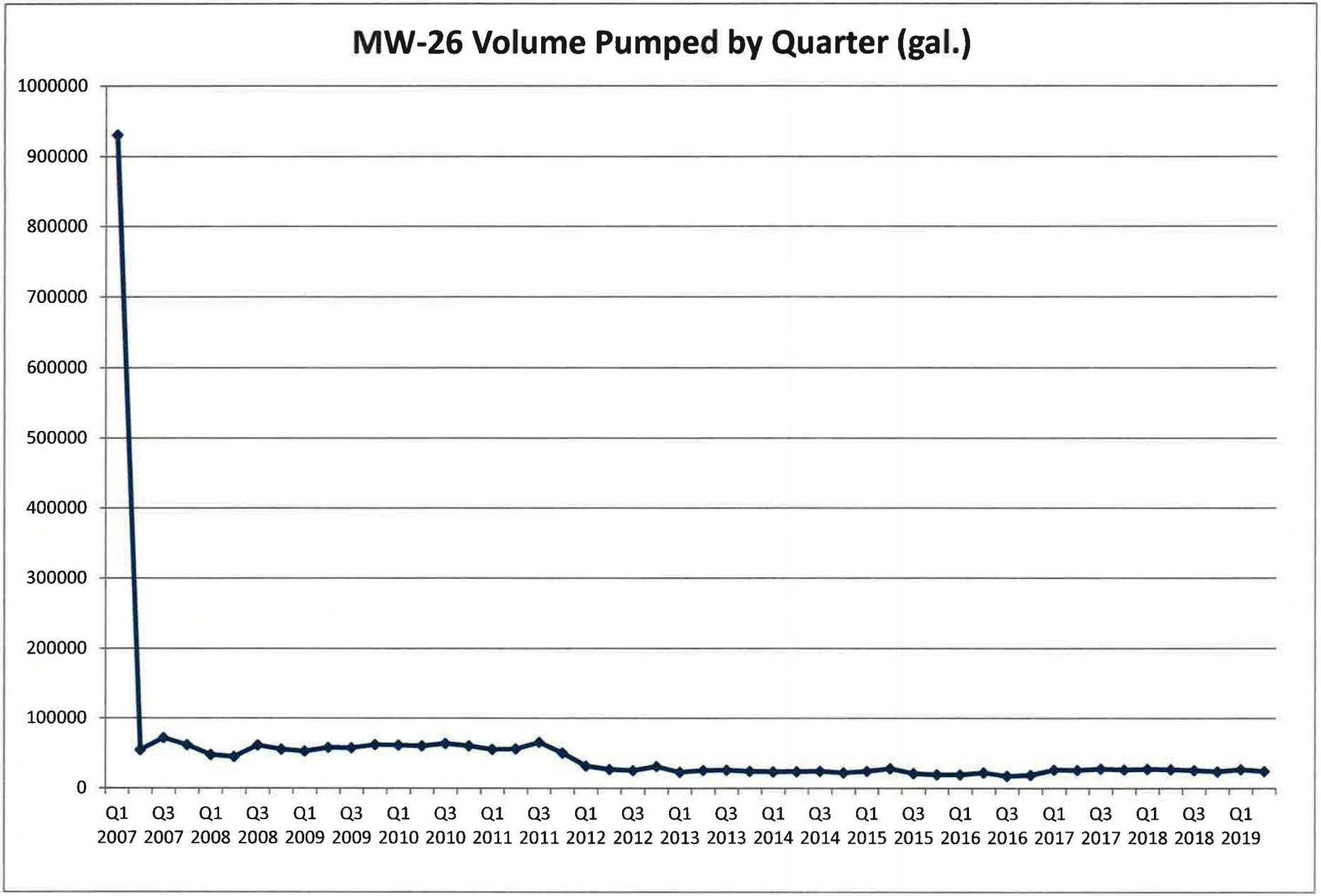
Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

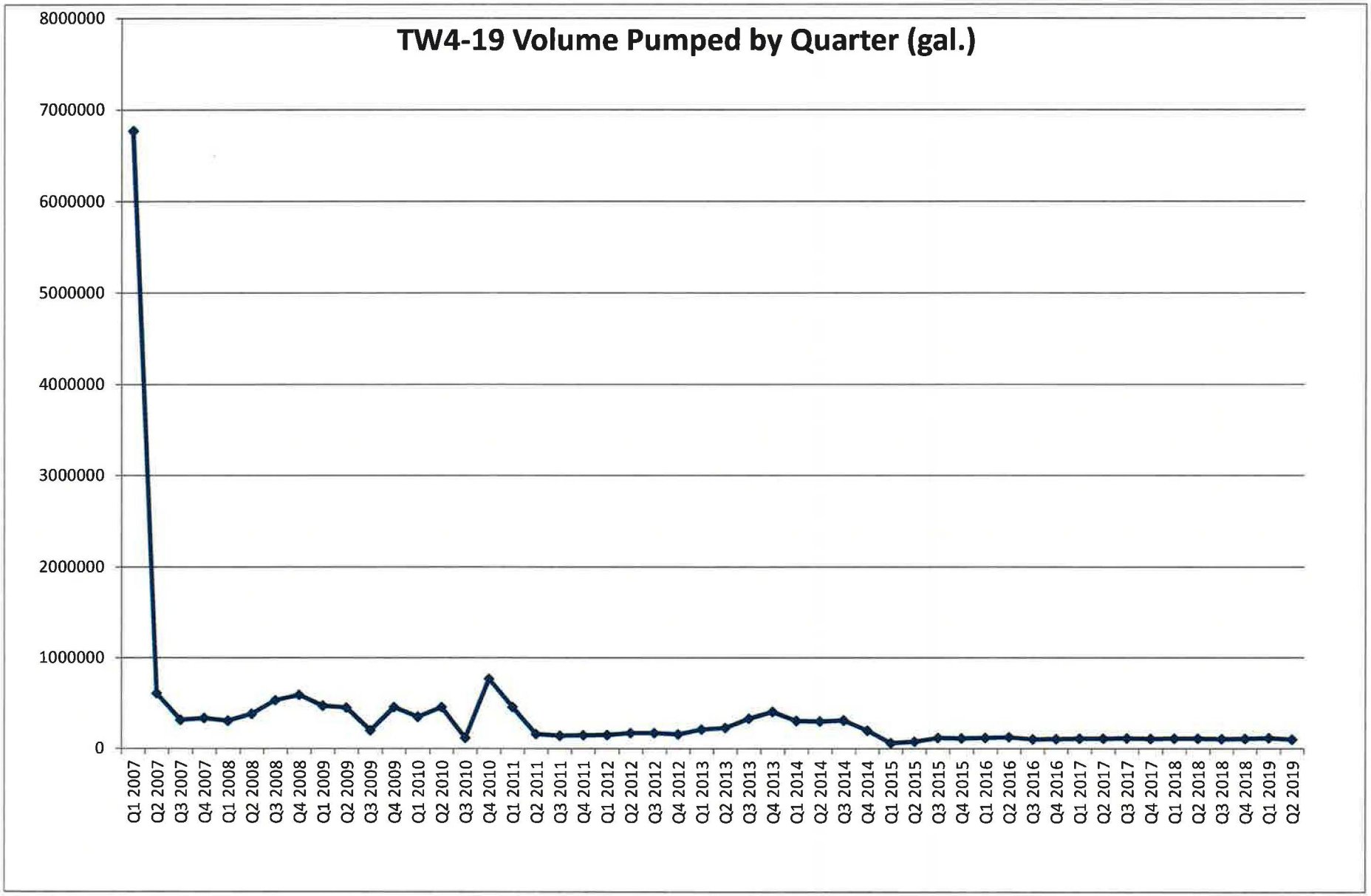

TW4-02 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-04 Volume Pumped by Quarter (gal.)
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2010
Q3 2010
Q4 2010
Q1 2011
Q2 2011
Q3 2011
Q4 2011
Q1 2012
Q2 2012
Q3 2012
Q4 2012
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

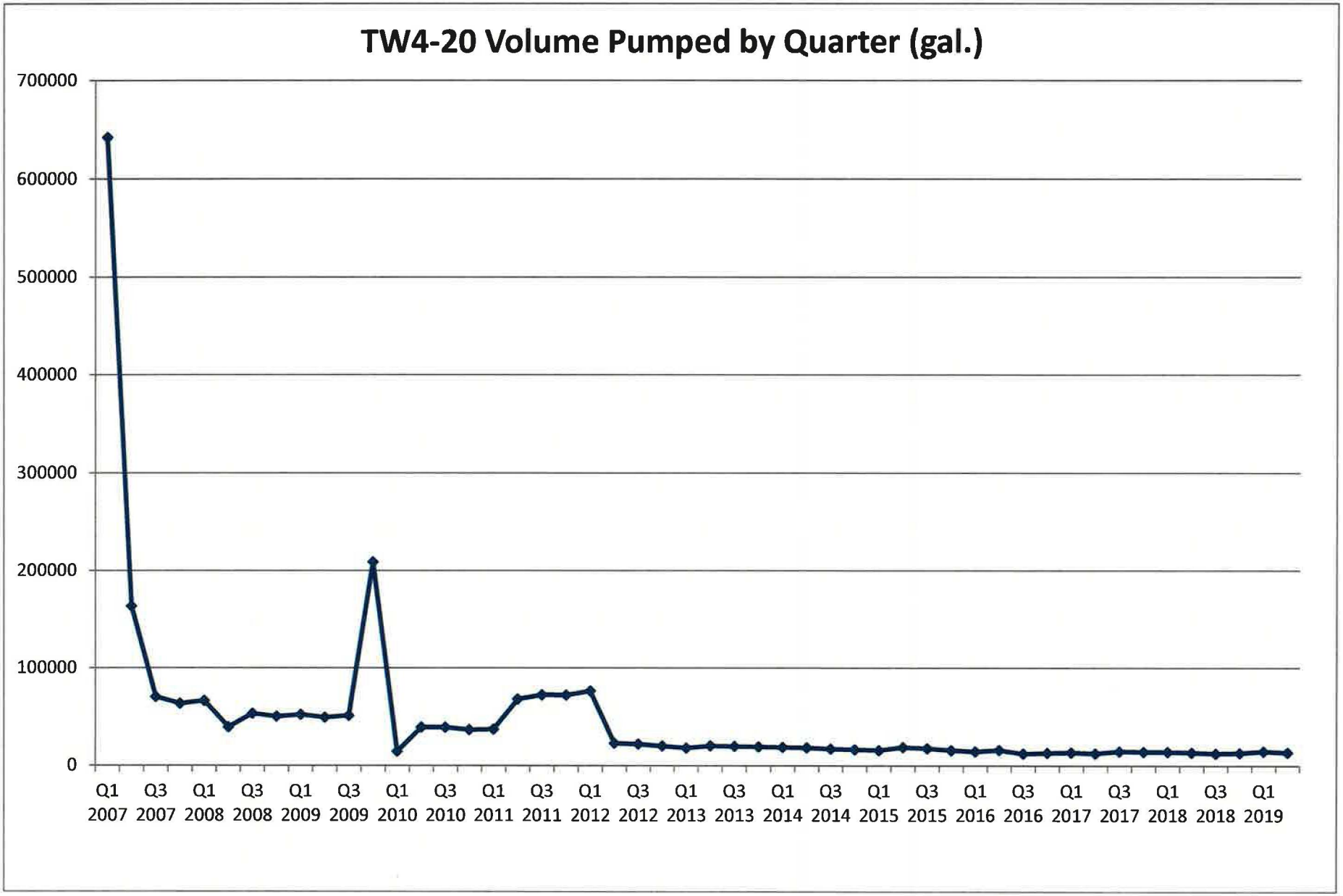

TW4-11 Volume Pumped by Quarter (gal.)
12000.0
10000.0
8000.0
6000.0
4000.0
2000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019



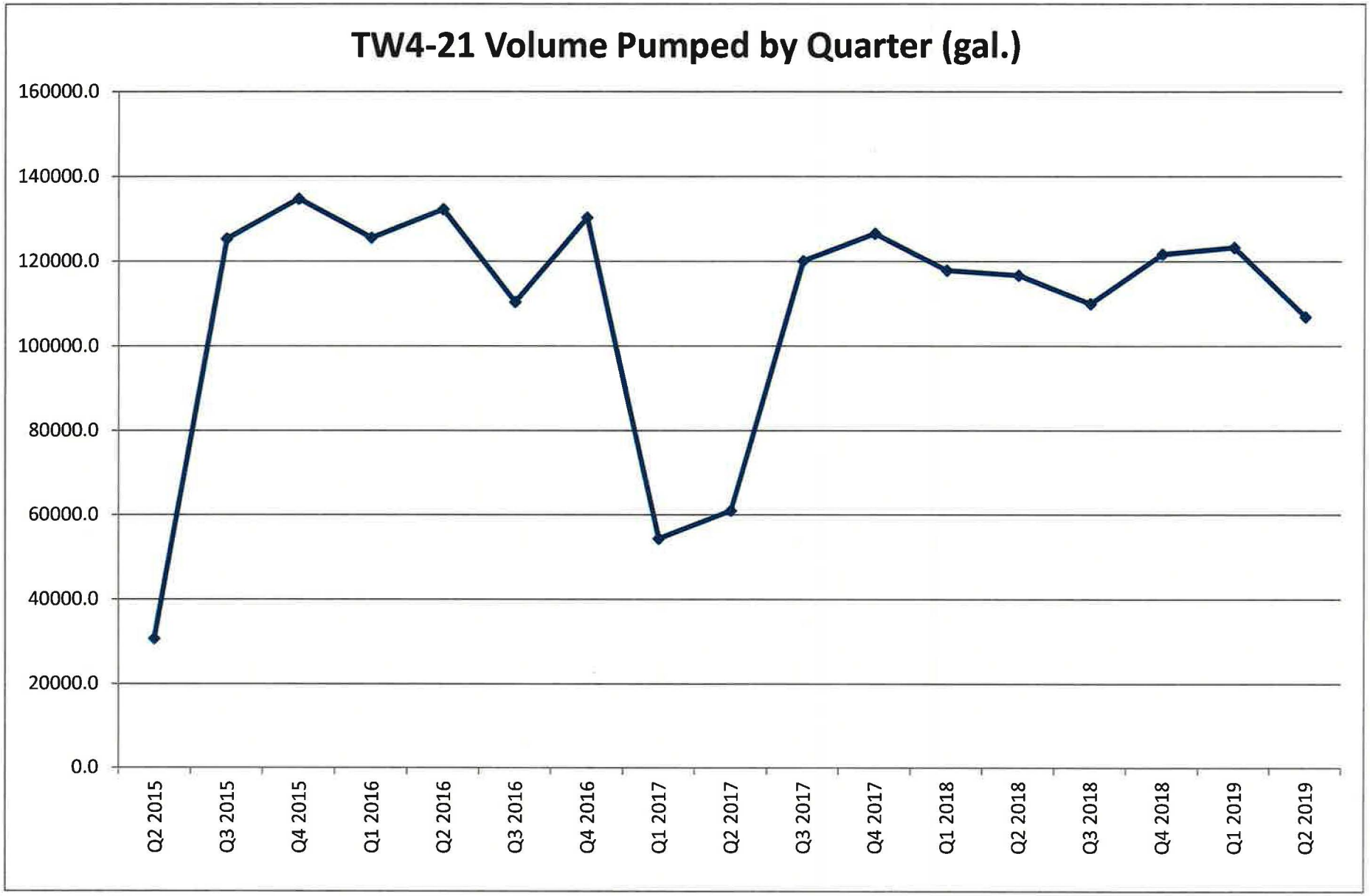
Q1 2007 represents the cumulative total prior to and including Q1 2007.

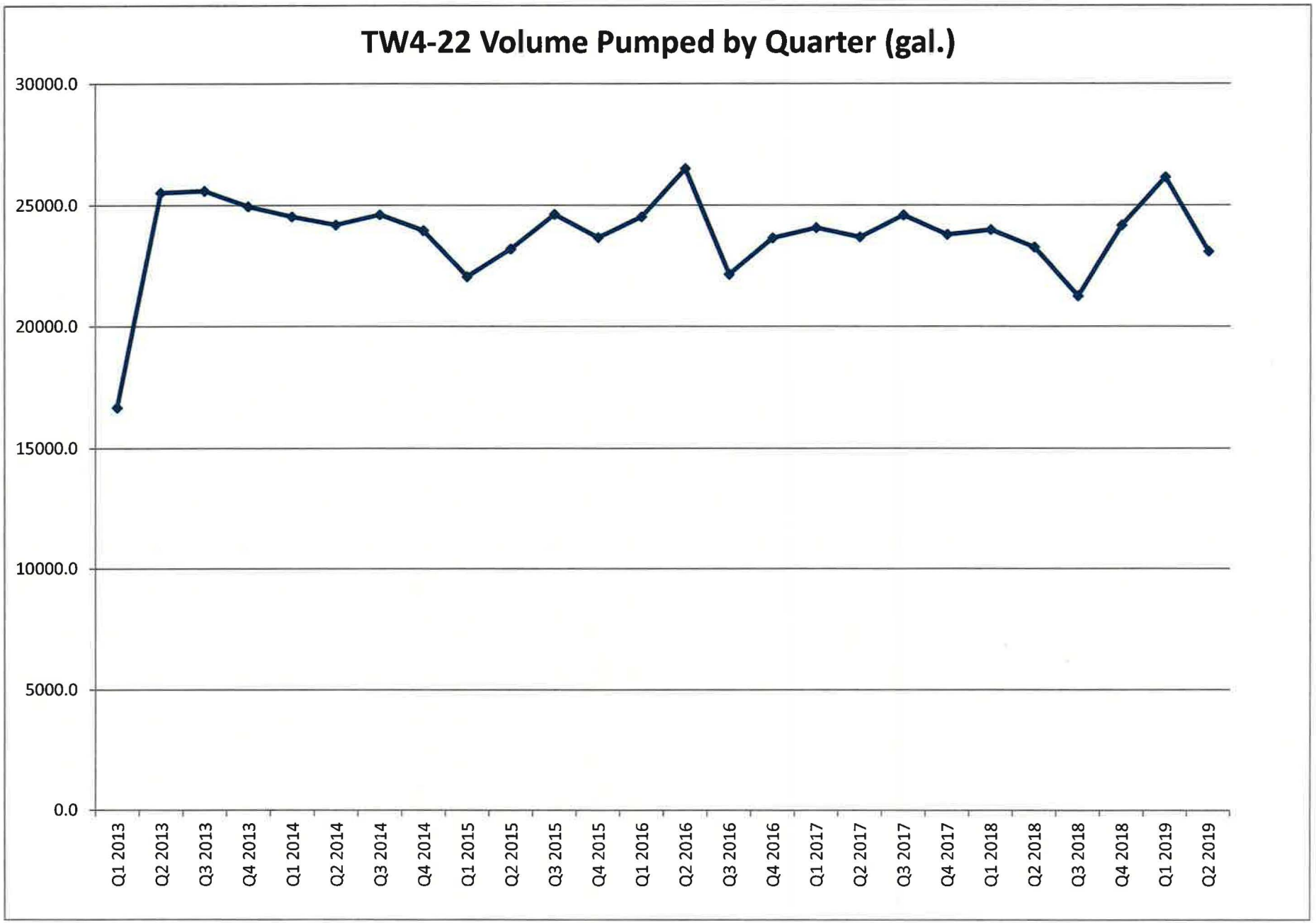


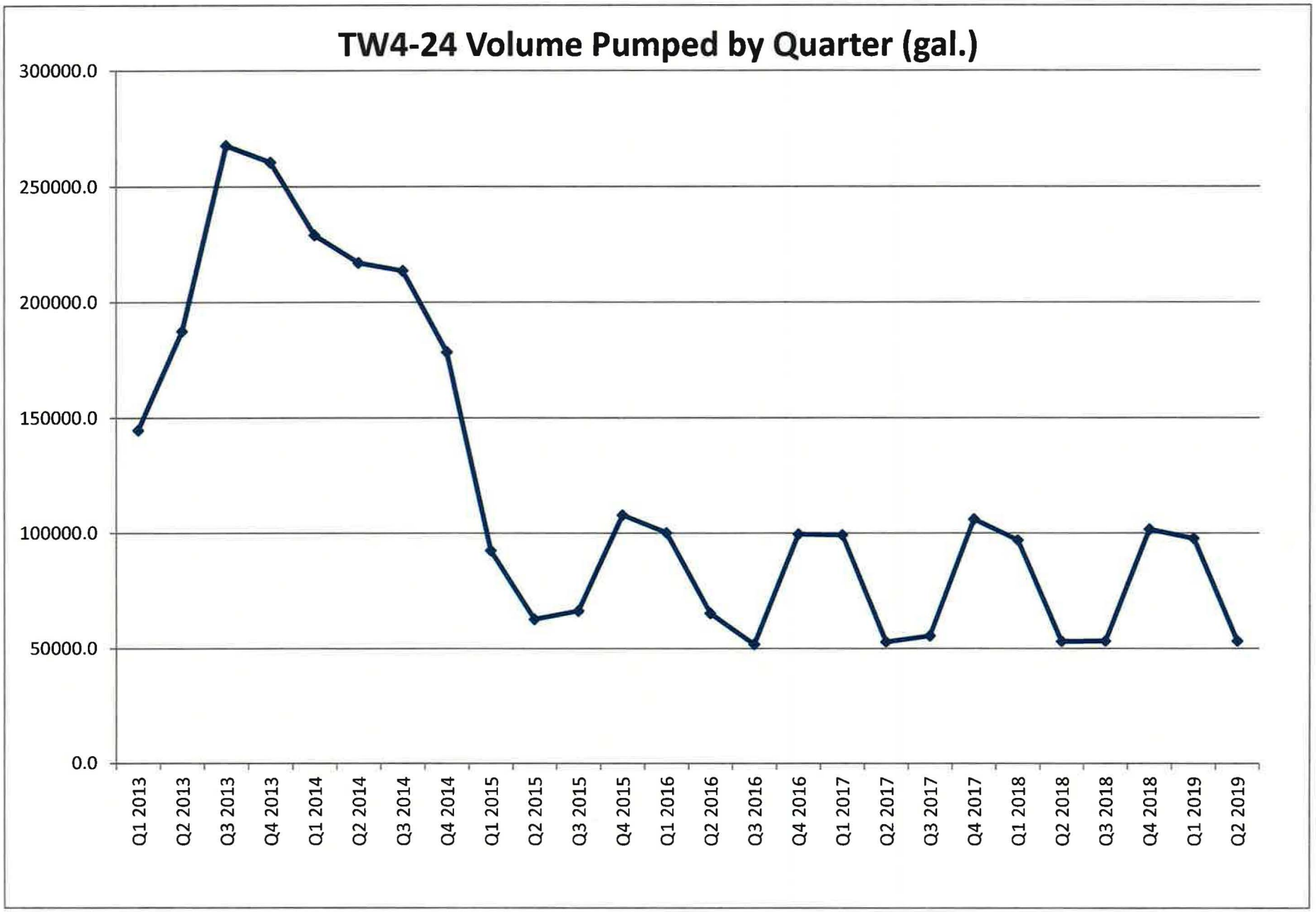
Q1 2007 represents the cumulative total prior to and including Q1 2007.

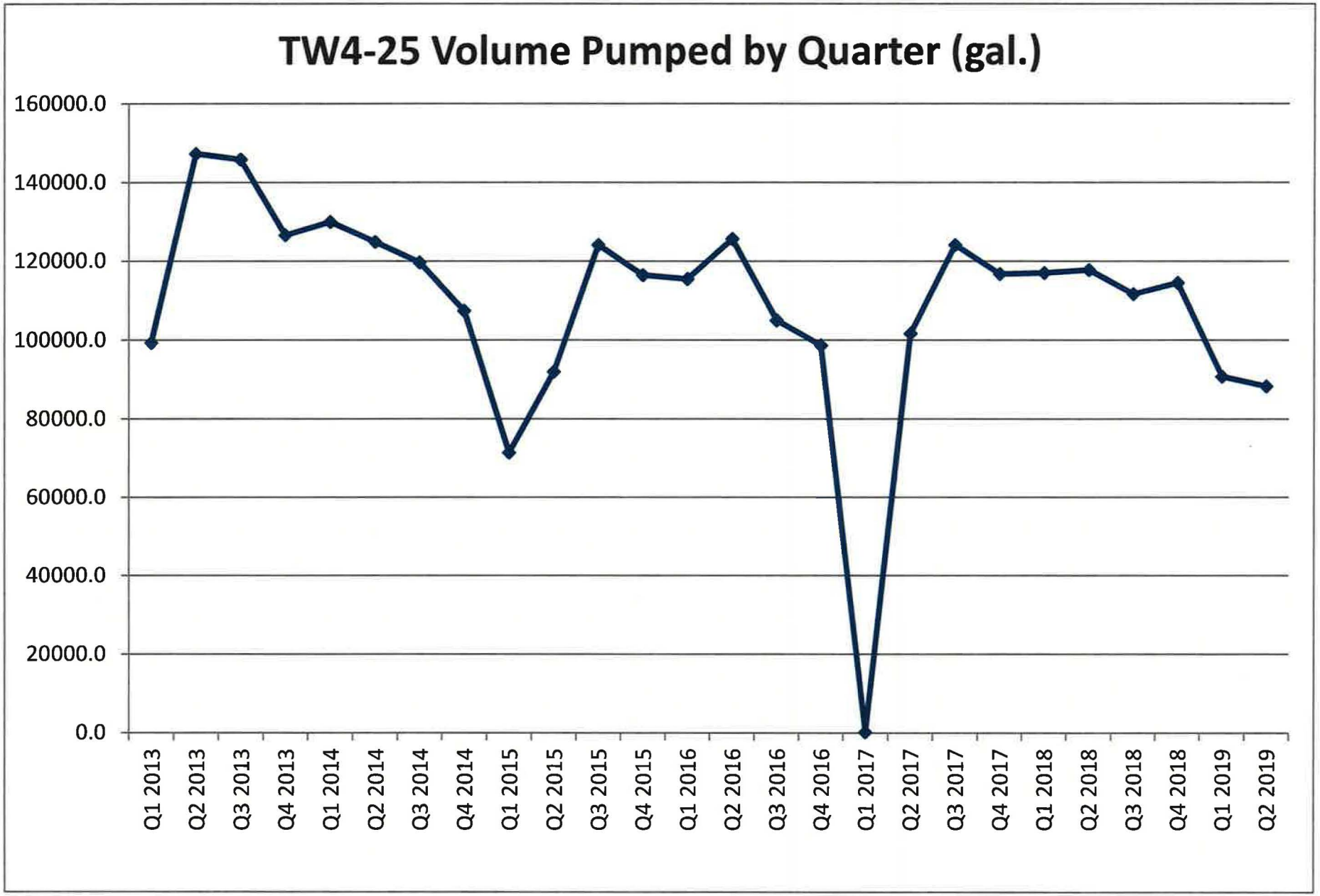


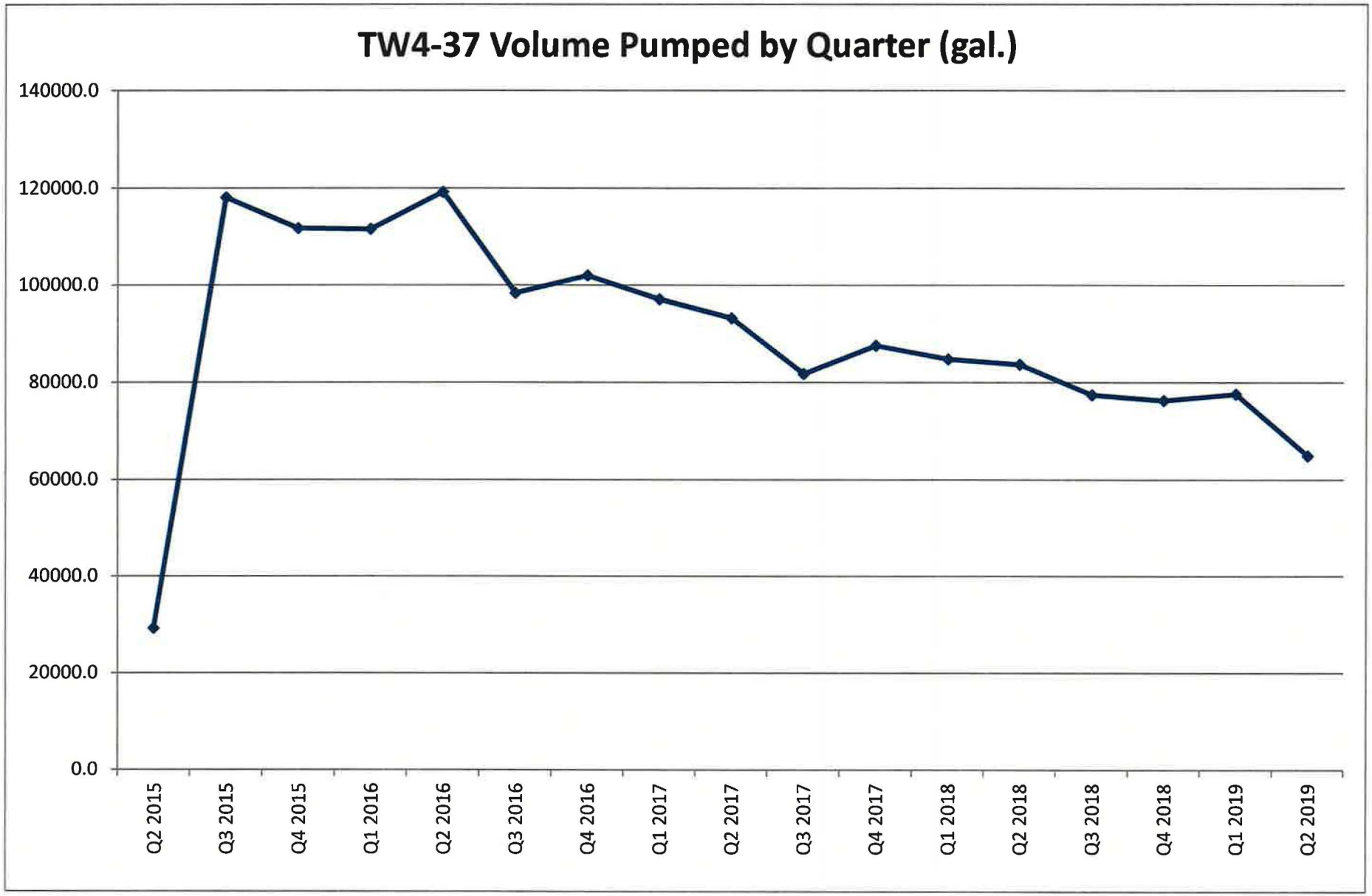
Q1 2007 represents the cumulative total prior to and including Q1 2007.

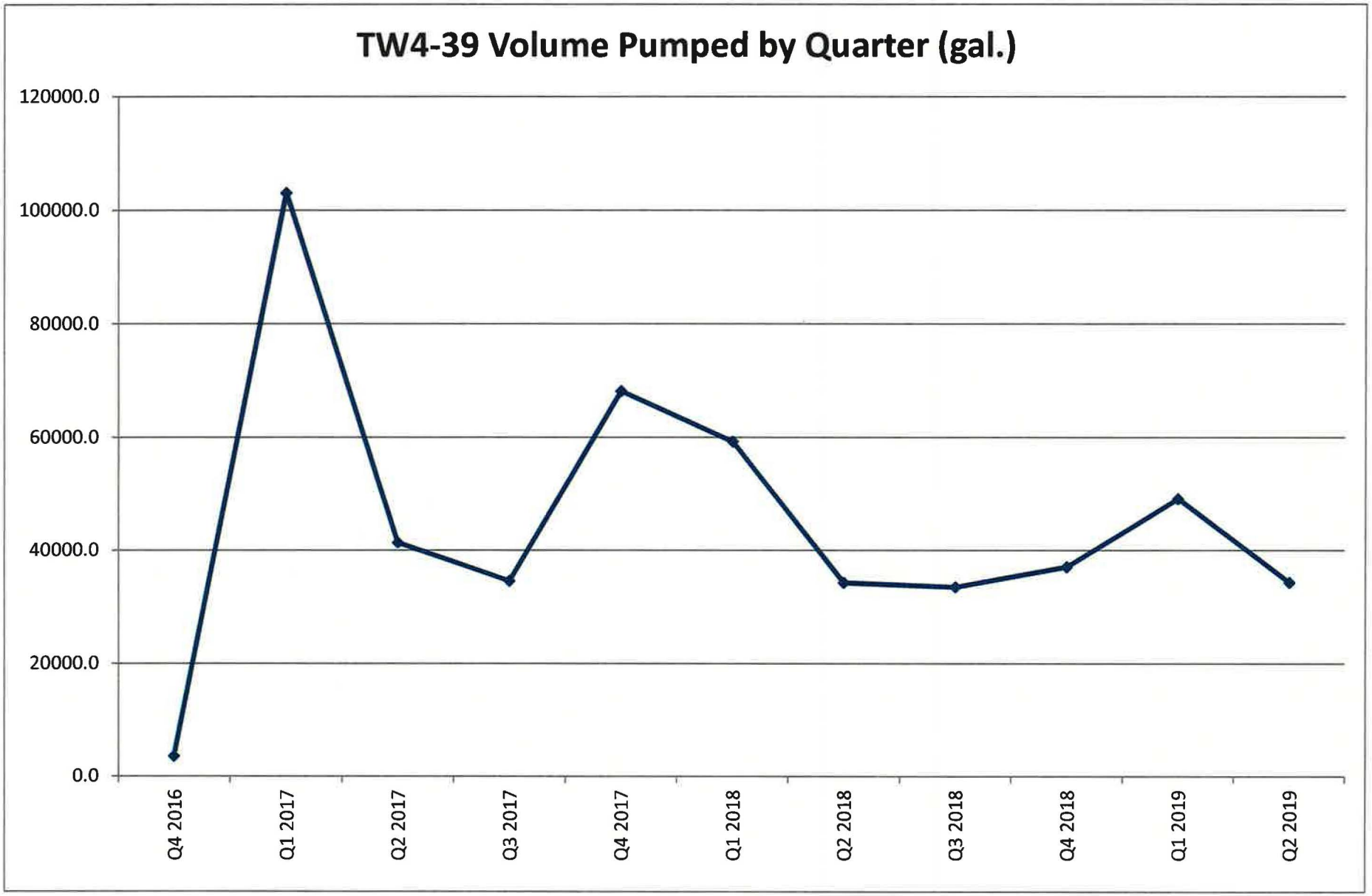

TW4-21 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

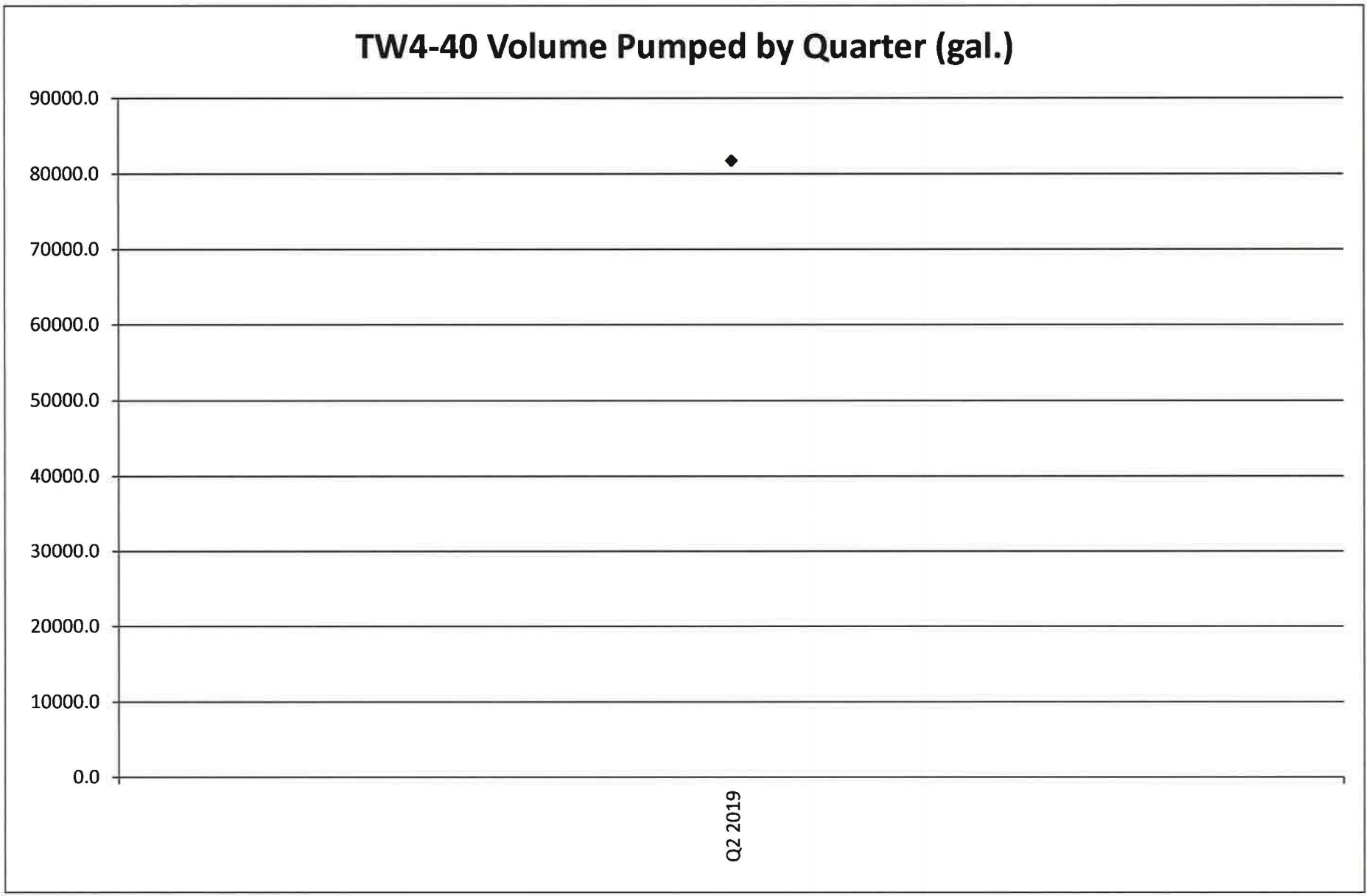

TW4-22 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

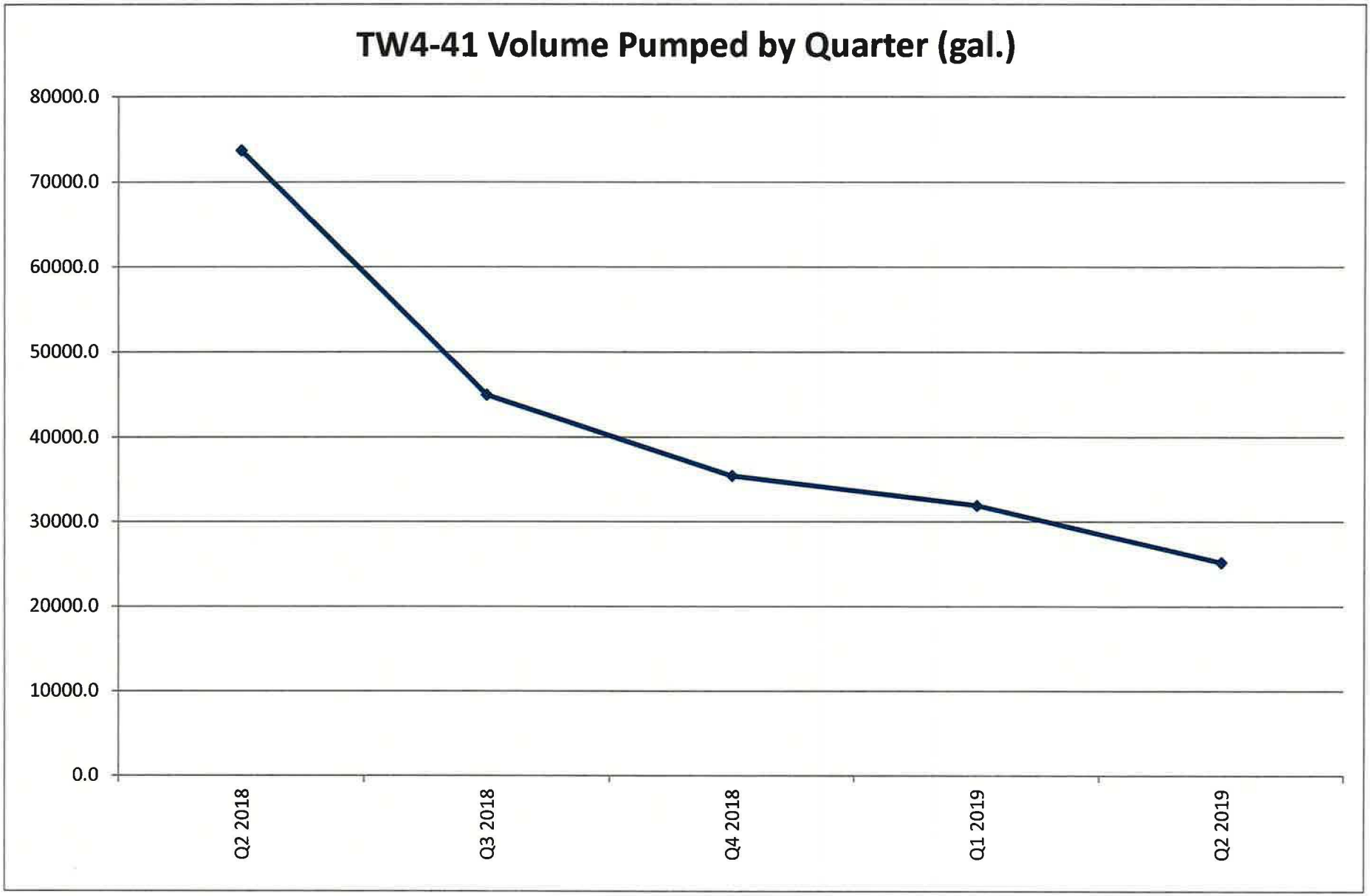

TW4-24 Volume Pumped by Quarter (gal.)
300000.0
250000.0
200000.0
150000.0
100000.0
50000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-25 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-37 Volume Pumped by Quarter (gal.)
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-39 Volume Pumped by Quarter (gal.)
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Q1 2018
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019


TW4-40 Volume Pumped by Quarter (gal.)
90000.0
80000.0
70000.0
60000.0
50000.0
40000.0
30000.0
20000.0
10000.0
0.0
Q2 2019


TW4-41 Volume Pumped by Quarter (gal.)
80000.0
70000.0
60000.0
50000.0
40000.0
30000.0
20000.0
10000.0
0.0
Q2 2018
Q3 2018
Q4 2018
Q1 2019
Q2 2019

Tab H

Laboratory Analytical Reports

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-010C
Client Sample ID: MW-04_06052019
Collection Date: 6/5/2019 823h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1438h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,300**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,750	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,610	2,500	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,540	2,500	101	72-135	
Surr: Toluene-d8	2037-26-5	2,540	2,500	101	80-124	

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

Analyzed: 6/6/2019 2312h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.5	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	72-135	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	80-124	

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-010
Client Sample ID: MW-04_06052019
Collection Date: 6/5/2019 823h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 334h	E300.0	1.00	**40.6**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1021h	E353.2	0.100	**5.16**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-003C
Client Sample ID: TW4-01_06052019
Collection Date: 6/5/2019 830h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1218h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,040**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,710	2,500	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,540	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,560	2,500	102	72-135	
Surr: Toluene-d8	2037-26-5	2,550	2,500	102	80-124	

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

Analyzed: 6/6/2019 2052h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.1	80-124	

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-003
Client Sample ID: TW4-01_06052019
Collection Date: 6/5/2019 830h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 827h	E300.0	1.00	**44.8**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1013h	E353.2	0.100	**1.43**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-007C
Client Sample ID: TW4-02_06052019
Collection Date: 6/5/2019 815h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1338h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**1,360**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,500	5,000	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,160	5,000	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,120	5,000	102	72-135	
Surr: Toluene-d8	2037-26-5	5,190	5,000	104	80-124	

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

Analyzed: 6/6/2019 2212h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	72-135	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	80-124	

American West ANALYTICAL LABORATORIES
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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-007
Client Sample ID: TW4-02_06052019
Collection Date: 6/5/2019 815h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 244h	E300.0	1.00	**39.8**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1018h	E353.2	0.100	**4.38**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-002C
Client Sample ID: TW4-03_06132019
Collection Date: 6/13/2019 645h
Received Date: 6/14/2019 955h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 900h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.0	50.00	100	72-135	
Surr: Toluene-d8		2037-26-5	48.5	50.00	97.0	80-124	

American West ANALYTICAL LABORATORIES
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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-002
Client Sample ID: TW4-03_06132019
Collection Date: 6/13/2019 645h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1700h	E300.0	1.00	**27.4**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 912h	E353.2	0.100	**6.68**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
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Kyle F. Gross
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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-001C
Client Sample ID: TW4-03R_06122019
Collection Date: 6/12/2019 615h
Received Date: 6/14/2019 955h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 841h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**16.5**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.6	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	80-124	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-001
Client Sample ID: TW4-03R_06122019
Collection Date: 6/12/2019 615h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1643h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 946h	E353.2	0.100	< 0.100	

3440 South 700 West
Salt Lake City, UT 84119

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American West
ANALYTICAL LABORATORIES

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

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-008C
Client Sample ID: TW4-04_06052019
Collection Date: 6/5/2019 850h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1358h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,070**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,710	2,500	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,570	2,500	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,500	2,500	100	72-135	
Surr: Toluene-d8	2037-26-5	2,540	2,500	102	80-124	

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

Analyzed: 6/6/2019 2232h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-008
Client Sample ID: TW4-04_06052019
Collection Date: 6/5/2019 850h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 301h	E300.0	1.00	**38.5**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1019h	E353.2	0.100	**10.4**	

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

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American West
ANALYTICAL LABORATORIES

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

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-015C
Client Sample ID: TW4-05_06132019
Collection Date: 6/13/2019 920h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1400h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**15.8**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	60.7	50.00	121	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	72-135	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-015
Client Sample ID: TW4-05_06132019
Collection Date: 6/13/2019 920h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2251h	E300.0	1.00	**49.3**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 1011h	E353.2	0.100	**7.62**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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Kyle F. Gross
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Jose Rocha
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-016C
Client Sample ID: TW4-06_06132019
Collection Date: 6/13/2019 935h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 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	
Chloroform	67-66-3	1.00	**15.8**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.3	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.5	72-135	
Surr: Toluene-d8	2037-26-5	52.4	50.00	105	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-016
Client Sample ID: TW4-06_06132019
Collection Date: 6/13/2019 935h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2308h	E300.0	1.00	**38.1**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 1012h	E353.2	0.100	**0.484**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-009C
Client Sample ID: TW4-07_06192019
Collection Date: 6/19/2019 711h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2019 1505h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**862**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	528	500.0	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	505	500.0	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	508	500.0	102	72-135	
Surr: Toluene-d8	2037-26-5	502	500.0	100	80-124	

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

Analyzed: 6/20/2019 1844h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.7	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	80-124	

American West ANALYTICAL LABORATORIES
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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-009
Client Sample ID: TW4-07_06192019
Collection Date: 6/19/2019 711h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1759h	E300.0	1.00	**43.0**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 830h	E353.2	0.100	**4.19**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-007C
Client Sample ID: TW4-08_06192019
Collection Date: 6/19/2019 653h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1804h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**96.0**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.2	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-007
Client Sample ID: TW4-08_06192019
Collection Date: 6/19/2019 653h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1725h	E300.0	1.00	**56.5**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 827h	E353.2	0.100	**1.10**	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
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web: www.awal-labs.com

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-006C
Client Sample ID: TW4-09_06192019
Collection Date: 6/19/2019 645h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1744h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**68.1**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.2	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.5	72-135	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
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Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-006
Client Sample ID: TW4-09_06192019
Collection Date: 6/19/2019 645h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1709h	E300.0	1.00	**38.3**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 826h	E353.2	0.100	**0.785**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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Kyle F. Gross
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Jose Rocha
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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-010C
Client Sample ID: TW4-10_06192019
Collection Date: 6/19/2019 723h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2019 1525h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**799**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	530	500.0	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	497	500.0	99.5	80-152	
Surr: Dibromofluoromethane	1868-53-7	508	500.0	102	72-135	
Surr: Toluene-d8	2037-26-5	502	500.0	100	80-124	

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

Analyzed: 6/20/2019 1904h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.8	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-010
Client Sample ID: TW4-10_06192019
Collection Date: 6/19/2019 723h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1849h	E300.0	1.00	**58.7**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 831h	E353.2	0.100	**8.86**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
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Salt Lake City, UT 84119

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Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-013C
Client Sample ID: TW4-11_06052019
Collection Date: 6/5/2019 805h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1538h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**2,970**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,700	2,500	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,510	2,500	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,520	2,500	101	72-135	
Surr: Toluene-d8	2037-26-5	2,510	2,500	101	80-124	

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

Analyzed: 6/7/2019 012h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.52**	
Chloromethane	74-87-3	1.00	**1.40**	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.3	50.00	105	72-135	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-013
Client Sample ID: TW4-11_06052019
Collection Date: 6/5/2019 805h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 459h	E300.0	2.00	**45.3**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1032h	E353.2	0.100	**8.30**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-005C
Client Sample ID: TW4-12_06132019
Collection Date: 6/13/2019 720h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1040h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.5	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	52.9	50.00	106	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-005
Client Sample ID: TW4-12_06132019
Collection Date: 6/13/2019 720h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1823h	E300.0	1.00	**55.3**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 916h	E353.2	0.100	**8.31**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-006C
Client Sample ID: TW4-13_06132019
Collection Date: 6/13/2019 728h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1100h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.9	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-006
Client Sample ID: TW4-13_06132019
Collection Date: 6/13/2019 728h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1840h	E300.0	1.00	**65.4**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 924h	E353.2	0.100	**6.56**	

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

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American West
ANALYTICAL LABORATORIES

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

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-013C
Client Sample ID: TW4-14_06132019
Collection Date: 6/13/2019 855h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1320h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**4.18**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	59.8	50.00	120	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.4	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	52.6	50.00	105	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-013
Client Sample ID: TW4-14_06132019
Collection Date: 6/13/2019 855h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2144h	E300.0	1.00	**48.3**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 955h	E353.2	0.100	**5.86**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-009C
Client Sample ID: MW-26_06052019
Collection Date: 6/5/2019 755h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1418h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,280**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,740	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,580	2,500	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,540	2,500	102	72-135	
Surr: Toluene-d8	2037-26-5	2,500	2,500	99.9	80-124	

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

Analyzed: 6/6/2019 2252h
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	**1.19**	

Surrogate (Units: µg/L)	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	48.0	50.00	96.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	80-124	

American West ANALYTICAL LABORATORIES
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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-009
Client Sample ID: MW-26_06052019
Collection Date: 6/5/2019 755h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 318h	E300.0	1.00	**80.7**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1020h	E353.2	0.100	**2.83**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-004C
Client Sample ID: TW4-16_06192019
Collection Date: 6/19/2019 625h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1704h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**76.2**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.5	72-135	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-004
Client Sample ID: TW4-16_06192019
Collection Date: 6/19/2019 625h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 230h	E300.0	1.00	**71.5**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 819h	E353.2	0.100	**2.43**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-002C
Client Sample ID: MW-32_06182019
Collection Date: 6/18/2019 1130h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1624h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
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Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-002
Client Sample ID: MW-32_06182019
Collection Date: 6/18/2019 1130h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 156h	E300.0	1.00	**36.5**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 908h	E353.2	0.100	< 0.100	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-003C
Client Sample ID: TW4-18_06192019
Collection Date: 6/19/2019 610h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1644h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**54.2**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.7	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	80-124	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-003
Client Sample ID: TW4-18_06192019
Collection Date: 6/19/2019 610h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 213h	E300.0	1.00	**39.5**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 818h	E353.2	0.100	**4.01**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-001C
Client Sample ID: TW4-18R_06182019
Collection Date: 6/18/2019 620h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1504h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.9	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-001
Client Sample ID: TW4-18R_06182019
Collection Date: 6/18/2019 620h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 139h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 907h	E353.2	0.100	< 0.100	

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Salt Lake City, UT 84119

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-012C
Client Sample ID: TW4-19_06052019
Collection Date: 6/5/2019 930h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1518h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**11,500**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	28,100	25,000	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	24,900	25,000	99.8	80-152	
Surr: Dibromofluoromethane	1868-53-7	26,200	25,000	105	72-135	
Surr: Toluene-d8	2037-26-5	25,400	25,000	102	80-124	

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

Analyzed: 6/6/2019 2352h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**15.9**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	52.9	50.00	106	80-124	

American West ANALYTICAL LABORATORIES
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Salt Lake City, UT 84119
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-012
Client Sample ID: TW4-19_06052019
Collection Date: 6/5/2019 930h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 442h	E300.0	2.00	**160**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1031h	E353.2	0.100	**8.96**	

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Salt Lake City, UT 84119

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-016C
Client Sample ID: TW4-20_06052019
Collection Date: 6/5/2019 738h
Received Date: 6/6/2019 1130h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/6/2019 1913h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**13,700**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	26,400	25,000	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	25,400	25,000	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	25,100	25,000	100	72-135	
Surr: Toluene-d8	2037-26-5	25,800	25,000	103	80-124	

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

Analyzed: 6/7/2019 1638h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**10.1**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.8	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	72-135	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-016
Client Sample ID: TW4-20_06052019
Collection Date: 6/5/2019 738h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 624h	E300.0	5.00	**279**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1038h	E353.2	0.100	**9.59**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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American West
ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-005C
Client Sample ID: TW4-21_06052019
Collection Date: 6/5/2019 655h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1258h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**734**	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	545	500.0	109	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	522	500.0	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	518	500.0	104	72-135	
Surr: Toluene-d8		2037-26-5	519	500.0	104	80-124	

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

Analyzed: 6/6/2019 2132h
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	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.9	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.2	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-005
Client Sample ID: TW4-21_06052019
Collection Date: 6/5/2019 655h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 936h	E300.0	5.00	**456**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1015h	E353.2	0.100	**17.5**	

3440 South 700 West
Salt Lake City, UT 84119

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-014C
Client Sample ID: TW4-22_06052019
Collection Date: 6/5/2019 723h
Received Date: 6/6/2019 1130h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1558h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**4,690**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,380	5,000	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	4,770	5,000	95.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,050	5,000	101	72-135	
Surr: Toluene-d8	2037-26-5	5,020	5,000	100	80-124	

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

Analyzed: 6/7/2019 032h
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	**1.13**	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.9	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-014
Client Sample ID: TW4-22_06052019
Collection Date: 6/5/2019 723h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 516h	E300.0	5.00	**662**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1034h	E353.2	1.00	**83.9**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-011C
Client Sample ID: TW4-23_06132019
Collection Date: 6/13/2019 831h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1240h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	60.8	50.00	122	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.5	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	52.9	50.00	106	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-011
Client Sample ID: TW4-23_06132019
Collection Date: 6/13/2019 831h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2037h	E300.0	1.00	**50.2**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 951h	E353.2	0.100	< 0.100	

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QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-002C
Client Sample ID: TW4-24_06052019
Collection Date: 6/5/2019 715h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/6/2019 2033h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**28.8**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.7	72-135	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-002
Client Sample ID: TW4-24_06052019
Collection Date: 6/5/2019 715h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 737h	E300.0	10.0	**1,020**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1151h	E353.2	0.400	**33.2**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-001C
Client Sample ID: TW4-25_06052019
Collection Date: 6/5/2019 705h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/6/2019 2013h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	80-124	

American West ANALYTICAL LABORATORIES
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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-001
Client Sample ID: TW4-25_06052019
Collection Date: 6/5/2019 705h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 721h	E300.0	1.00	**59.0**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1148h	E353.2	0.100	**0.821**	

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

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ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-011C
Client Sample ID: TW4-26_06192019
Collection Date: 6/19/2019 733h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2019 1545h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,070**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,640	2,500	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,430	2,500	97.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,530	2,500	101	72-135	
Surr: Toluene-d8	2037-26-5	2,460	2,500	98.2	80-124	

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

Analyzed: 6/20/2019 1924h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.8	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.3	50.00	98.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-011
Client Sample ID: TW4-26_06192019
Collection Date: 6/19/2019 733h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1939h	E300.0	1.00	**35.8**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 834h	E353.2	0.100	**12.6**	

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

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American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-014C
Client Sample ID: TW4-27_06132019
Collection Date: 6/13/2019 906h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1340h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**8.24**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.8	50.00	120	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	72-135	
Surr: Toluene-d8	2037-26-5	52.3	50.00	105	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-014
Client Sample ID: TW4-27_06132019
Collection Date: 6/13/2019 906h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2201h	E300.0	1.00	**28.6**	
Nitrate/Nitrite (as N)	mg/L		6/20/2019 817h	E353.2	0.500	**22.3**	

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

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American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-003C
Client Sample ID: TW4-28_06132019
Collection Date: 6/13/2019 705h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 920h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.5	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.7	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-003
Client Sample ID: TW4-28_06132019
Collection Date: 6/13/2019 705h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1716h	E300.0	1.00	**51.8**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 913h	E353.2	0.100	**15.0**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-008C
Client Sample ID: TW4-29_06192019
Collection Date: 6/19/2019 701h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/21/2019 1445h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**537**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	522	500.0	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	509	500.0	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	503	500.0	101	72-135	
Surr: Toluene-d8	2037-26-5	502	500.0	100	80-124	

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

Analyzed: 6/20/2019 1824h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.2	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
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e-mail: awal@awal-labs.com
web: www.awal-labs.com
Kyle F. Gross
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-008
Client Sample ID: TW4-29_06192019
Collection Date: 6/19/2019 701h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1742h	E300.0	1.00	**39.4**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 828h	E353.2	0.100	**2.56**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-017C
Client Sample ID: TW4-30_06132019
Collection Date: 6/13/2019 945h
Received Date: 6/14/2019 955h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1440h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**31.5**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.0	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	99.9	72-135	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
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web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-017
Client Sample ID: TW4-30_06132019
Collection Date: 6/13/2019 945h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2324h	E300.0	1.00	**27.2**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 1013h	E353.2	0.100	**4.13**	

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
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ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-008C
Client Sample ID: TW4-31_06132019
Collection Date: 6/13/2019 747h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1140h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	59.1	50.00	118	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.5	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	51.4	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-008
Client Sample ID: TW4-31_06132019
Collection Date: 6/13/2019 747h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1947h	E300.0	1.00	**36.9**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 927h	E353.2	0.100	**0.713**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-004C
Client Sample ID: TW4-32_06132019
Collection Date: 6/13/2019 712h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.4	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.3	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	52.0	50.00	104	80-124	

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-004
Client Sample ID: TW4-32_06132019
Collection Date: 6/13/2019 712h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1806h	E300.0	1.00	**60.1**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 915h	E353.2	0.100	**2.18**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-005C
Client Sample ID: TW4-33_06192019
Collection Date: 6/19/2019 634h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1724h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**121**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-005
Client Sample ID: TW4-33_06192019
Collection Date: 6/19/2019 634h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 321h	E300.0	1.00	**43.4**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 825h	E353.2	0.100	**2.16**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
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QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-009C
Client Sample ID: TW4-34_06132019
Collection Date: 6/13/2019 758h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.2	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-009
Client Sample ID: TW4-34_06132019
Collection Date: 6/13/2019 758h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2003h	E300.0	1.00	**20.1**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 928h	E353.2	0.100	**0.994**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-010C
Client Sample ID: TW4-35_06132019
Collection Date: 6/13/2019 807h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1220h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.8	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.1	50.00	96.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.8	50.00	95.6	72-135	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-010
Client Sample ID: TW4-35_06132019
Collection Date: 6/13/2019 807h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2020h	E300.0	1.00	**35.5**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 929h	E353.2	0.100	**0.670**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-007C
Client Sample ID: TW4-36_06132019
Collection Date: 6/13/2019 736h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1120h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.7	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	72-135	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	80-124	

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-007
Client Sample ID: TW4-36_06132019
Collection Date: 6/13/2019 736h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 1930h	E300.0	1.00	**71.5**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 950h	E353.2	0.100	< 0.100	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-015C
Client Sample ID: TW4-37_06052019
Collection Date: 6/5/2019 730h
Received Date: 6/6/2019 1130h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1618h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**16,200**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	27,200	25,000	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	25,300	25,000	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	25,300	25,000	101	72-135	
Surr: Toluene-d8	2037-26-5	25,100	25,000	100	80-124	

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

Analyzed: 6/7/2019 052h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**14.6**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.6	50.00	95.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-015
Client Sample ID: TW4-37_06052019
Collection Date: 6/5/2019 730h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 607h	E300.0	5.00	**250**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1035h	E353.2	0.200	**31.2**	

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
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Jose Rocha
QA Officer

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American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-012C
Client Sample ID: TW4-38_06132019
Collection Date: 6/13/2019 841h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1300h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.7	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-012
Client Sample ID: TW4-38_06132019
Collection Date: 6/13/2019 841h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2128h	E300.0	1.00	**33.7**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 934h	E353.2	0.100	**8.53**	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
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American West
ANALYTICAL LABORATORIES

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

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-006C
Client Sample ID: TW4-39_06052019
Collection Date: 6/5/2019 747h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1318h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**8,640**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	27,300	25,000	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	26,000	25,000	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	25,700	25,000	103	72-135	
Surr: Toluene-d8	2037-26-5	26,200	25,000	105	80-124	

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

Analyzed: 6/6/2019 2152h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**11.6**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.2	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.3	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.6	72-135	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-006
Client Sample ID: TW4-39_06052019
Collection Date: 6/5/2019 747h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 952h	E300.0	1.00	**114**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1017h	E353.2	0.100	**8.45**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-004C
Client Sample ID: TW4-40_06052019
Collection Date: 6/5/2019 900h
Received Date: 6/6/2019 1130h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1238h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**263**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	544	500.0	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	513	500.0	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	519	500.0	104	72-135	
Surr: Toluene-d8	2037-26-5	510	500.0	102	80-124	

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

Analyzed: 6/6/2019 2112h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-004
Client Sample ID: TW4-40_06052019
Collection Date: 6/5/2019 900h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 844h	E300.0	1.00	**35.6**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1014h	E353.2	0.100	**3.55**	

3440 South 700 West
Salt Lake City, UT 84119

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Laboratory Director

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-011C
Client Sample ID: TW4-41_06052019
Collection Date: 6/5/2019 840h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/7/2019 1458h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,320**	~

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,760	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,470	2,500	98.7	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,590	2,500	104	72-135	
Surr: Toluene-d8	2037-26-5	2,510	2,500	100	80-124	

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

Analyzed: 6/6/2019 2332h
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 (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.9	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	72-135	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.6	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-011
Client Sample ID: TW4-41_06052019
Collection Date: 6/5/2019 840h
Received Date: 6/6/2019 1130h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2019 425h	E300.0	1.00	**38.9**	
Nitrate/Nitrite (as N)	mg/L		6/11/2019 1153h	E353.2	0.100	**6.00**	

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
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web: www.awal-labs.com

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-012C
Client Sample ID: TW4-42_06192019
Collection Date: 6/19/2019 744h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1944h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-012
Client Sample ID: TW4-42_06192019
Collection Date: 6/19/2019 744h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 1956h	E300.0	1.00	**23.3**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 905h	E353.2	0.100	**2.57**	

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Salt Lake City, UT 84119

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-020C
Client Sample ID: TW4-60_06132019
Collection Date: 6/13/2019 1010h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1540h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**2.44**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	60.2	50.00	120	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.3	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.9	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	51.5	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-020
Client Sample ID: TW4-60_06132019
Collection Date: 6/13/2019 1010h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 014h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/20/2019 829h	E353.2	0.100	< 0.100	

3440 South 700 West
Salt Lake City, UT 84119

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Toll Free: (888) 263-8686
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Laboratory Director

Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-018C
Client Sample ID: TW4-65_06132019
Collection Date: 6/13/2019 645h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	58.6	50.00	117	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.4	50.00	98.9	72-135	
Surr: Toluene-d8		2037-26-5	51.1	50.00	102	80-124	

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3440 South 700 West
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-018
Client Sample ID: TW4-65_06132019
Collection Date: 6/13/2019 645h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2341h	E300.0	1.00	**25.9**	^
Nitrate/Nitrite (as N)	mg/L		6/18/2019 1014h	E353.2	0.100	**6.60**	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

3440 South 700 West
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-019C
Client Sample ID: TW4-70_06132019
Collection Date: 6/13/2019 841h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1520h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.6	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	98.9	72-135	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-019
Client Sample ID: TW4-70_06132019
Collection Date: 6/13/2019 841h
Received Date: 6/14/2019 955h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/28/2019 2358h	E300.0	1.00	**35.3**	
Nitrate/Nitrite (as N)	mg/L		6/18/2019 1015h	E353.2	0.100	**9.52**	

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

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-013C
Client Sample ID: TW4-75_06192019
Collection Date: 6/19/2019 610h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 2004h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**54.4**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	80-124	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-013
Client Sample ID: TW4-75_06192019
Collection Date: 6/19/2019 610h
Received Date: 6/20/2019 1000h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/29/2019 2012h	E300.0	1.00	**40.8**	
Nitrate/Nitrite (as N)	mg/L		6/21/2019 906h	E353.2	0.100	**2.95**	

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906386-021A
Client Sample ID: Trip Blank
Collection Date: 6/12/2019 615h
Received Date: 6/14/2019 955h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/17/2019 1641h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.0	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.2	50.00	110	80-152	
Surr: Dibromofluoromethane	1868-53-7	44.5	50.00	89.0	72-135	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.8	80-124	

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3440 South 700 West
Salt Lake City, UT 84119
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906140-017A
Client Sample ID: Trip Blank
Collection Date: 6/5/2019 655h
Received Date: 6/6/2019 1130h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/6/2019 1853h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	80-124	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Sample ID: 1906517-014A
Client Sample ID: Trip Blank
Collection Date: 6/18/2019 620h
Received Date: 6/20/2019 1000h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/20/2019 1524h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate (Units: µg/L)	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	53.1	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.2	50.00	102	72-135	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	80-124	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: Q2 Chloroform 2019

Dear Tanner Holliday: Lab Set ID: 1906140

American West Analytical Laboratories received sample(s) on 6/6/2019 for the analyses presented in the following report.

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

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

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

Thank You,

Approved by: Kyle F. Gross Digitally signed by Kyle F. Gross Date: 2019.06.26 13:05:06 -06'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906140
Date Received: 6/6/2019 1130h

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
1906140-001A	TW4-25_06052019	6/5/2019	705h	Aqueous	Anions, E300.0
1906140-001B	TW4-25_06052019	6/5/2019	705h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-001C	TW4-25_06052019	6/5/2019	705h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-002A	TW4-24_06052019	6/5/2019	715h	Aqueous	Anions, E300.0
1906140-002B	TW4-24_06052019	6/5/2019	715h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-002C	TW4-24_06052019	6/5/2019	715h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-003A	TW4-01_06052019	6/5/2019	830h	Aqueous	Anions, E300.0
1906140-003B	TW4-01_06052019	6/5/2019	830h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-003C	TW4-01_06052019	6/5/2019	830h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-004A	TW4-40_06052019	6/5/2019	900h	Aqueous	Anions, E300.0
1906140-004B	TW4-40_06052019	6/5/2019	900h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-004C	TW4-40_06052019	6/5/2019	900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-005A	TW4-21_06052019	6/5/2019	655h	Aqueous	Anions, E300.0
1906140-005B	TW4-21_06052019	6/5/2019	655h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-005C	TW4-21_06052019	6/5/2019	655h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-006A	TW4-39_06052019	6/5/2019	747h	Aqueous	Anions, E300.0
1906140-006B	TW4-39_06052019	6/5/2019	747h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-006C	TW4-39_06052019	6/5/2019	747h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-007A	TW4-02_06052019	6/5/2019	815h	Aqueous	Anions, E300.0
1906140-007B	TW4-02_06052019	6/5/2019	815h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-007C	TW4-02_06052019	6/5/2019	815h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-008A	TW4-04_06052019	6/5/2019	850h	Aqueous	Anions, E300.0
1906140-008B	TW4-04_06052019	6/5/2019	850h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-008C	TW4-04_06052019	6/5/2019	850h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-009A	MW-26_06052019	6/5/2019	755h	Aqueous	Anions, E300.0
1906140-009B	MW-26_06052019	6/5/2019	755h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-009C	MW-26_06052019	6/5/2019	755h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-010A	MW-04_06052019	6/5/2019	823h	Aqueous	Anions, E300.0

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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. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906140
Date Received: 6/6/2019 1130h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1906140-010B	MW-04_06052019	6/5/2019	823h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-010C	MW-04_06052019	6/5/2019	823h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-011A	TW4-41_06052019	6/5/2019	840h	Aqueous	Anions, E300.0
1906140-011B	TW4-41_06052019	6/5/2019	840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-011C	TW4-41_06052019	6/5/2019	840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-012A	TW4-19_06052019	6/5/2019	930h	Aqueous	Anions, E300.0
1906140-012B	TW4-19_06052019	6/5/2019	930h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-012C	TW4-19_06052019	6/5/2019	930h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-013A	TW4-11_06052019	6/5/2019	805h	Aqueous	Anions, E300.0
1906140-013B	TW4-11_06052019	6/5/2019	805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-013C	TW4-11_06052019	6/5/2019	805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-014A	TW4-22_06052019	6/5/2019	723h	Aqueous	Anions, E300.0
1906140-014B	TW4-22_06052019	6/5/2019	723h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-014C	TW4-22_06052019	6/5/2019	723h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-015A	TW4-37_06052019	6/5/2019	730h	Aqueous	Anions, E300.0
1906140-015B	TW4-37_06052019	6/5/2019	730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-015C	TW4-37_06052019	6/5/2019	730h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-016A	TW4-20_06052019	6/5/2019	738h	Aqueous	Anions, E300.0
1906140-016B	TW4-20_06052019	6/5/2019	738h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906140-016C	TW4-20_06052019	6/5/2019	738h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906140-017A	Trip Blank	6/5/2019	655h	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Q2 Chloroform 2019
Lab Set ID:	1906140

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

Sample Receipt Information:

Date of Receipt:	6/6/2019
Date of Collection:	6/5-6/6/2019
Sample Condition:	Intact
C-O-C Discrepancies:	See Chain of Custody

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

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

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

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

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

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

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

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

Corrective Action: None required.

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Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Q2 Chloroform 2019
Lab Set ID:	1906140

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

Sample Receipt Information:

Date of Receipt:	6/6/2019
Date of Collection:	6/5-6/6/2019
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: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R126973 Date Analyzed: 06/14/2019 659h Test Code: 300.0-W													
Chloride	4.56	mg/L	E300.0	0.0386	0.100	5.000	0	91.2	90 - 110				
Lab Sample ID: LCS-R126800 Date Analyzed: 06/11/2019 939h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00363	0.0100	1.000	0	106	90 - 110				
Lab Sample ID: LCS-R126801 Date Analyzed: 06/11/2019 1037h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00363	0.0100	1.000	0	106	90 - 110				

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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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R126973 Date Analyzed: 06/14/2019 642h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Lab Sample ID: MB-R126800 Date Analyzed: 06/11/2019 937h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								
Lab Sample ID: MB-R126801 Date Analyzed: 06/11/2019 1036h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906140-010AMS Date Analyzed: 06/14/2019 351h Test Code: 300.0-W													
Chloride	135	mg/L	E300.0	0.772	2.00	100.0	40.6	94.2	90 - 110				
Lab Sample ID: 1906140-002AMS Date Analyzed: 06/14/2019 754h Test Code: 300.0-W													
Chloride	2,000	mg/L	E300.0	7.72	20.0	1,000	1020	97.8	90 - 110				
Lab Sample ID: 1906139-003AMS Date Analyzed: 06/11/2019 1139h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.4	mg/L	E353.2	0.0363	0.100	10.00	3.16	103	90 - 110				
Lab Sample ID: 1906140-001BMS Date Analyzed: 06/11/2019 1149h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.4	mg/L	E353.2	0.0363	0.100	10.00	0.821	106	90 - 110				
Lab Sample ID: 1906140-011BMS Date Analyzed: 06/11/2019 1154h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.8	mg/L	E353.2	0.0363	0.100	10.00	6	108	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906140-010AMSD Date Analyzed: 06/14/2019 408h Test Code: 300.0-W													
Chloride	134	mg/L	E300.0	0.772	2.00	100.0	40.6	93.3	90 - 110	135	0.659	20	
Lab Sample ID: 1906140-002AMSD Date Analyzed: 06/14/2019 810h Test Code: 300.0-W													
Chloride	2,010	mg/L	E300.0	7.72	20.0	1,000	1020	99.2	90 - 110	2000	0.667	20	
Lab Sample ID: 1906139-003AMSD Date Analyzed: 06/11/2019 1140h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.8	mg/L	E353.2	0.0363	0.100	10.00	3.16	106	90 - 110	13.4	2.72	10	
Lab Sample ID: 1906140-001BMSD Date Analyzed: 06/11/2019 1150h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.8	mg/L	E353.2	0.0363	0.100	10.00	0.821	99.7	90 - 110	11.4	5.59	10	
Lab Sample ID: 1906140-011BMSD Date Analyzed: 06/11/2019 1155h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.5	mg/L	E353.2	0.0363	0.100	10.00	6	105	90 - 110	16.8	1.62	10	

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 060619A Date Analyzed: 06/06/2019 1753h													
Test Code: 8260-W-DEN100													
Chloroform	20.6	µg/L	SW8260C	0.166	1.00	20.00	0	103	85 - 124				
Methylene chloride	21.5	µg/L	SW8260C	0.448	1.00	20.00	0	108	65 - 154				
Surr: 1,2-Dichloroethane-d4	51.1	µg/L	SW8260C			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	47.7	µg/L	SW8260C			50.00		95.4	85 - 121				
Surr: Dibromofluoromethane	48.3	µg/L	SW8260C			50.00		96.6	78 - 132				
Surr: Toluene-d8	47.9	µg/L	SW8260C			50.00		95.8	81 - 123				
Lab Sample ID: LCS VOC-1 060719A Date Analyzed: 06/07/2019 852h													
Test Code: 8260-W-DEN100													
Chloroform	23.2	µg/L	SW8260C	0.166	1.00	20.00	0	116	85 - 124				
Methylene chloride	23.1	µg/L	SW8260C	0.448	1.00	20.00	0	116	65 - 154				
Surr: 1,2-Dichloroethane-d4	53.8	µg/L	SW8260C			50.00		108	80 - 136				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	85 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	78 - 132				
Surr: Toluene-d8	49.1	µg/L	SW8260C			50.00		98.2	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 060619A Date Analyzed: 06/06/2019 1833h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.448	1.00								
Surr: 1,2-Dichloroethane-d4	51.7	µg/L	SW8260C			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	52.2	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.3	78 - 132				
Surr: Toluene-d8	52.7	µg/L	SW8260C			50.00		105	81 - 123				
Lab Sample ID: MB VOC-1 060719A Date Analyzed: 06/07/2019 912h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.448	1.00								
Surr: 1,2-Dichloroethane-d4	53.4	µg/L	SW8260C			50.00		107	80 - 136				
Surr: 4-Bromofluorobenzene	50.1	µg/L	SW8260C			50.00		100	85 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.6	78 - 132				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	81 - 123				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906140-016CMS Date Analyzed: 06/06/2019 1933h													
Test Code: 8260-W-DEN100													
Chloroform	24,000	µg/L	SW8260C	83.0	500	10,000	13700	103	50 - 146				
Methylene chloride	11,400	µg/L	SW8260C	224	500	10,000	0	114	30 - 192				
Surr: 1,2-Dichloroethane-d4	26,400	µg/L	SW8260C			25,000		105	72 - 151				
Surr: 4-Bromofluorobenzene	24,800	µg/L	SW8260C			25,000		99.4	80 - 152				
Surr: Dibromofluoromethane	24,800	µg/L	SW8260C			25,000		99.3	72 - 135				
Surr: Toluene-d8	24,400	µg/L	SW8260C			25,000		97.8	80 - 124				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906140
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906140-016CMSD	Date Analyzed:	06/06/2019 1953h											
Test Code: 8260-W-DEN100													
Chloroform	23,800	µg/L	SW8260C	83.0	500	10,000	13700	101	50 - 146	24000	0.942	25	
Methylene chloride	11,400	µg/L	SW8260C	224	500	10,000	0	114	30 - 192	11400	0.132	25	
Surr: 1,2-Dichloroethane-d4	26,600	µg/L	SW8260C			25,000		106	72 - 151				
Surr: 4-Bromofluorobenzene	25,300	µg/L	SW8260C			25,000		101	80 - 152				
Surr: Dibromofluoromethane	24,900	µg/L	SW8260C			25,000		99.7	72 - 135				
Surr: Toluene-d8	24,700	µg/L	SW8260C			25,000		99.0	80 - 124				

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REVISED: 6/26/2019

Client Sample IDs were corrected. MC

Rev or Add Emailed:

UL
Denison

WORK ORDER Summary

Work Order: **1906140**

Client: Energy Fuels Resources, Inc.

Due Date: 6/20/2019

Client ID: ENE300 **Contact:** Tanner Holliday

Project: **Q2 Chloroform 2019** **QC Level:** III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; .;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906140-001A	**TW4-25_06052019**	6/5/2019 0705h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-001B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-001C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-002A	**TW4-24_06052019**	6/5/2019 0715h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-002B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-002C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-003A	**TW4-01_06052019**	6/5/2019 0830h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-003B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-003C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-004A	**TW4-40_06052019**	6/5/2019 0900h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-004B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-004C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-005A	**TW4-21_06052019**	6/5/2019 0655h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-005B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-005C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-006A	**TW4-39_06052019**	6/5/2019 0747h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				

WORK ORDER Summary

Work Order: **1906140**

Client: Energy Fuels Resources, Inc. Due Date: 6/20/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906140-006B	**TW4-39_06052019**	6/5/2019 0747h	6/6/2019 1130h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous	☑	df - no2/no3	1
1906140-006C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-007A	**TW4-02_06052019**	6/5/2019 0815h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1906140-007C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-008A	**TW4-04_06052019**	6/5/2019 0850h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1906140-008C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-009A	**MW-26_06052019**	6/5/2019 0755h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1906140-009C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-010A	**MW-04_06052019**	6/5/2019 0823h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1906140-010C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-011A	**TW4-41_06052019**	6/5/2019 0840h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1906140-011C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1906140-012A	**TW4-19_06052019**	6/5/2019 0930h	6/6/2019 1130h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1906140-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

WORK ORDER Summary

Work Order: **1906140**

Client: Energy Fuels Resources, Inc. Due Date: 6/20/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906140-012C	**TW4-19_06052019**	6/5/2019 0930h	6/6/2019 1130h	**8260-W-DEN100**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-013A	**TW4-11_06052019**	6/5/2019 0805h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-013B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-013C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-014A	**TW4-22_06052019**	6/5/2019 0723h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-014B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-014C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-015A	**TW4-37_06052019**	6/5/2019 0730h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-015B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-015C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-016A	**TW4-20_06052019**	6/5/2019 0738h	6/6/2019 1130h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1906140-016B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906140-016C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906140-017A	**Trip Blank**	6/5/2019 0655h	6/6/2019 1130h	**8260-W-DEN100**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

American West
Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
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

1906140
AWAL Lab Sample Set #
Page 1 of 2

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

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
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

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)
1	TW4-25_06052019	6/5/2019	705	5	W	X	X	X
2	TW4-24_06052019	6/5/2019	715	5	W	X	X	X
3	TW4-01_06052019	6/5/2019	830	5	W	X	X	X
4	TW4-40_06052019	6/5/2019	900	5	W	X	X	X
5	TW4-21_06052019	6/5/2019	655	5	W	X	X	X
6	TW4-39_06052019	6/5/2019	747	5	W	X	X	X
7	TW4-02_06052019	6/5/2019	815	5	W	X	X	X
8	TW4-04_06052019	6/5/2019	850	5	W	X	X	X
9	MW-26_06052019	6/5/2019	755	5	W	X	X	X
10	MW-04_06052019	6/5/2019	823	5	W	X	X	X
11	TW4-41_06052019	6/5/2019	840	5	W	X	X	X
12	TW4-19_06052019	6/5/2019	930	5	W	X	X	X
13	TW4-11_06052019	6/5/2019	805	5	W	X	X	X

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y (N)
5 Properly Preserved (Y) N
Checked at bench Y N
6 Received Within Holding Times (Y) N

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

Discrepancies Between Sample Labels and COC Record? Y (N)

Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Tanner Holliday	6/5/2019	1430	Abel Mendoza	6/5/2019	1430
Abel Mendoza	6-5-19	1130	Elena Hayes	6/6/19	1130

Special Instructions:

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

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

CHAIN OF CUSTODY

1906146
AWAL Lab Sample Set #
Page 2 of 2

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

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
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:

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
4	TW4-22_06052019	6/5/2019	723	5	W	X	X	X	
5	TW4-37_06052019	6/5/2019	730	5	W	X	X	X	
6	TW4-20_06052019	6/5/2019	738	5	W	X	X	X	
7	Trip Blank	6/5/2019	655	3	W			X	
5									
6									
7									
8									
9									
10									
11									
12									
13									

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: Tanner Holliday	Date: 6/5/2019	Received by: Signature	Date: 6/5/2019
Print Name: Tanner Holliday	Time: 1430	Print Name: Abel Mendoza	Time: 1430
Relinquished by: Signature	Date: 6-6-19	Received by: Signature	Date: 6/6/19
Print Name: Abel Mendoza	Time: 11:30	Print Name: Elma Hayes	Time: 1120
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

Lab Set ID: 1906140

pH Lot #: 5912

Preservation Check Sheet

Sample Set Extension and pH

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

Procedure:

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

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

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

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

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

American West
ANALYTICAL LABORATORIES

Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: Q2 Chloroform 2019

Dear Tanner Holliday: Lab Set ID: 1906386

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

American West Analytical Laboratories received sample(s) on 6/14/2019 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.

This is a revision to a report originally issued 7/8/2019. Information herein supersedes that of the previously issued reports. Pages 1 and 24 have been revised.

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: 2019.07.26 14:15:34 -06'00'

Laboratory Director or designee

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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906386
Date Received: 6/14/2019 955h

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
1906386-001A	TW4-03R_06122019	6/12/2019 615h	Aqueous	Anions, E300.0
1906386-001B	TW4-03R_06122019	6/12/2019 615h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-001C	TW4-03R_06122019	6/12/2019 615h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-002A	TW4-03_06132019	6/13/2019 645h	Aqueous	Anions, E300.0
1906386-002B	TW4-03_06132019	6/13/2019 645h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-002C	TW4-03_06132019	6/13/2019 645h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-003A	TW4-28_06132019	6/13/2019 705h	Aqueous	Anions, E300.0
1906386-003B	TW4-28_06132019	6/13/2019 705h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-003C	TW4-28_06132019	6/13/2019 705h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-004A	TW4-32_06132019	6/13/2019 712h	Aqueous	Anions, E300.0
1906386-004B	TW4-32_06132019	6/13/2019 712h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-004C	TW4-32_06132019	6/13/2019 712h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-005A	TW4-12_06132019	6/13/2019 720h	Aqueous	Anions, E300.0
1906386-005B	TW4-12_06132019	6/13/2019 720h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-005C	TW4-12_06132019	6/13/2019 720h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-006A	TW4-13_06132019	6/13/2019 728h	Aqueous	Anions, E300.0
1906386-006B	TW4-13_06132019	6/13/2019 728h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-006C	TW4-13_06132019	6/13/2019 728h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-007A	TW4-36_06132019	6/13/2019 736h	Aqueous	Anions, E300.0
1906386-007B	TW4-36_06132019	6/13/2019 736h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-007C	TW4-36_06132019	6/13/2019 736h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-008A	TW4-31_06132019	6/13/2019 747h	Aqueous	Anions, E300.0
1906386-008B	TW4-31_06132019	6/13/2019 747h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-008C	TW4-31_06132019	6/13/2019 747h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-009A	TW4-34_06132019	6/13/2019 758h	Aqueous	Anions, E300.0
1906386-009B	TW4-34_06132019	6/13/2019 758h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-009C	TW4-34_06132019	6/13/2019 758h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-010A	TW4-35_06132019	6/13/2019 807h	Aqueous	Anions, E300.0

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American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906386
Date Received: 6/14/2019 955h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1906386-010B	TW4-35_06132019	6/13/2019 807h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-010C	TW4-35_06132019	6/13/2019 807h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-011A	TW4-23_06132019	6/13/2019 831h	Aqueous	Anions, E300.0
1906386-011B	TW4-23_06132019	6/13/2019 831h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-011C	TW4-23_06132019	6/13/2019 831h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-012A	TW4-38_06132019	6/13/2019 841h	Aqueous	Anions, E300.0
1906386-012B	TW4-38_06132019	6/13/2019 841h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-012C	TW4-38_06132019	6/13/2019 841h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-013A	TW4-14_06132019	6/13/2019 855h	Aqueous	Anions, E300.0
1906386-013B	TW4-14_06132019	6/13/2019 855h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-013C	TW4-14_06132019	6/13/2019 855h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-014A	TW4-27_06132019	6/13/2019 906h	Aqueous	Anions, E300.0
1906386-014B	TW4-27_06132019	6/13/2019 906h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-014C	TW4-27_06132019	6/13/2019 906h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-015A	TW4-05_06132019	6/13/2019 920h	Aqueous	Anions, E300.0
1906386-015B	TW4-05_06132019	6/13/2019 920h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-015C	TW4-05_06132019	6/13/2019 920h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-016A	TW4-06_06132019	6/13/2019 935h	Aqueous	Anions, E300.0
1906386-016B	TW4-06_06132019	6/13/2019 935h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-016C	TW4-06_06132019	6/13/2019 935h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-017A	TW4-30_06132019	6/13/2019 945h	Aqueous	Anions, E300.0
1906386-017B	TW4-30_06132019	6/13/2019 945h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-017C	TW4-30_06132019	6/13/2019 945h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-018A	TW4-65_06132019	6/13/2019 645h	Aqueous	Anions, E300.0
1906386-018B	TW4-65_06132019	6/13/2019 645h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-018C	TW4-65_06132019	6/13/2019 645h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-019A	TW4-70_06132019	6/13/2019 841h	Aqueous	Anions, E300.0
1906386-019B	TW4-70_06132019	6/13/2019 841h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-019C	TW4-70_06132019	6/13/2019 841h	Aqueous	VOA by GC/MS Method 8260C/5030C

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American West
ANALYTICAL LABORATORIES

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

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906386
Date Received: 6/14/2019 955h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1906386-020A	TW4-60_06132019	6/13/2019 1010h	Aqueous	Anions, E300.0
1906386-020B	TW4-60_06132019	6/13/2019 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906386-020C	TW4-60_06132019	6/13/2019 1010h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906386-021A	Trip Blank	6/12/2019 615h	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Q2 Chloroform 2019
Lab Set ID:	1906386

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

Sample Receipt Information:

Date of Receipt:	6/14/2019
Date(s) of Collection:	6/12 and 6/13/19
Sample Condition:	Intact
C-O-C Discrepancies:	None

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

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

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

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

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

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

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

Corrective Action: None required.

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American West
ANALYTICAL LABORATORIES

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

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Q2 Chloroform 2019
Lab Set ID:	1906386

Sample Receipt Information:

Date of Receipt:	6/14/2019
Date(s) of Collection:	6/12 and 6/13/19
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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American West
ANALYTICAL LABORATORIES

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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R127544 Date Analyzed: 06/28/2019 1626h Test Code: 300.0-W													
Chloride	5.07	mg/L	E300.0	0.0386	0.100	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R127071 Date Analyzed: 06/18/2019 848h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00363	0.0100	1.000	0	106	90 - 110				
Lab Sample ID: LCS-127071 Date Analyzed: 06/18/2019 953h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00363	0.0100	1.000	0	105	90 - 110				
Lab Sample ID: LCS-R127151 Date Analyzed: 06/20/2019 752h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00363	0.0100	1.000	0	106	90 - 110				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R127544 Date Analyzed: 06/28/2019 1610h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Lab Sample ID: MB-R127071 Date Analyzed: 06/18/2019 846h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								
Lab Sample ID: MB-127071 Date Analyzed: 06/18/2019 952h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								
Lab Sample ID: MB-R127151 Date Analyzed: 06/20/2019 751h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906386-003AMS Date Analyzed: 06/28/2019 1733h Test Code: 300.0-W													
Chloride	147	mg/L	E300.0	0.772	2.00	100.0	51.8	95.7	90 - 110				
Lab Sample ID: 1906386-011AMS Date Analyzed: 06/28/2019 2054h Test Code: 300.0-W													
Chloride	145	mg/L	E300.0	0.772	2.00	100.0	50.2	94.7	90 - 110				
Lab Sample ID: 1906386-011BMS Date Analyzed: 06/18/2019 931h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.8	mg/L	E353.2	0.0363	0.100	10.00	0.0155	108	90 - 110				
Lab Sample ID: 1906386-001BMS Date Analyzed: 06/18/2019 947h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.6	mg/L	E353.2	0.0363	0.100	10.00	0	106	90 - 110				
Lab Sample ID: 1906386-013BMS Date Analyzed: 06/18/2019 956h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.8	mg/L	E353.2	0.0363	0.100	10.00	5.86	110	90 - 110				
Lab Sample ID: 1906386-020BMS Date Analyzed: 06/20/2019 830h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00363	0.0100	1.000	0	104	90 - 110				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906386-003AMSD Date Analyzed: 06/28/2019 1750h Test Code: 300.0-W													
Chloride	148	mg/L	E300.0	0.772	2.00	100.0	51.8	96.4	90 - 110	147	0.479	20	
Lab Sample ID: 1906386-011AMSD Date Analyzed: 06/28/2019 2111h Test Code: 300.0-W													
Chloride	146	mg/L	E300.0	0.772	2.00	100.0	50.2	96.1	90 - 110	145	0.978	20	
Lab Sample ID: 1906386-011BMSD Date Analyzed: 06/18/2019 933h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.7	mg/L	E353.2	0.0363	0.100	10.00	0.0155	106	90 - 110	10.8	1.40	10	
Lab Sample ID: 1906386-001BMSD Date Analyzed: 06/18/2019 949h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.8	mg/L	E353.2	0.0363	0.100	10.00	0	108	90 - 110	10.6	1.77	10	
Lab Sample ID: 1906386-013BMSD Date Analyzed: 06/18/2019 1008h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.8	mg/L	E353.2	0.0363	0.100	10.00	5.86	109	90 - 110	16.8	0.417	10	
Lab Sample ID: 1906386-020BMSD Date Analyzed: 06/20/2019 832h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00363	0.0100	1.000	0	102	90 - 110	1.04	2.04	10	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 061719A Date Analyzed: 06/17/2019 801h													
Test Code: 8260-W-DEN100													
Chloroform	23.8	µg/L	SW8260C	0.166	1.00	20.00	0	119	85 - 124				
Methylene chloride	26.2	µg/L	SW8260C	0.448	1.00	20.00	0	131	65 - 154				
Surr: 1,2-Dichloroethane-d4	60.6	µg/L	SW8260C			50.00		121	80 - 136				
Surr: 4-Bromofluorobenzene	45.7	µg/L	SW8260C			50.00		91.4	85 - 121				
Surr: Dibromofluoromethane	51.5	µg/L	SW8260C			50.00		103	78 - 132				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.2	81 - 123				
Lab Sample ID: LCS VOC-3 061719A Date Analyzed: 06/17/2019 809h													
Test Code: 8260-W-DEN100													
Chloroform	22.8	µg/L	SW8260C	0.166	1.00	20.00	0	114	85 - 124				
Methylene chloride	21.0	µg/L	SW8260C	0.448	1.00	20.00	0	105	65 - 154				
Surr: 1,2-Dichloroethane-d4	60.2	µg/L	SW8260C			50.00		120	80 - 136				
Surr: 4-Bromofluorobenzene	50.9	µg/L	SW8260C			50.00		102	85 - 121				
Surr: Dibromofluoromethane	58.1	µg/L	SW8260C			50.00		116	78 - 132				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.9	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 061719A Date Analyzed: 06/17/2019 821h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.448	1.00								
Surr: 1,2-Dichloroethane-d4	59.4	µg/L	SW8260C			50.00		119	80 - 136				
Surr: 4-Bromofluorobenzene	51.8	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	78 - 132				
Surr: Toluene-d8	51.0	µg/L	SW8260C			50.00		102	81 - 123				
Lab Sample ID: MB VOC-3 061719A Date Analyzed: 06/17/2019 829h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.448	1.00								
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260C			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	53.9	µg/L	SW8260C			50.00		108	85 - 121				
Surr: Dibromofluoromethane	45.4	µg/L	SW8260C			50.00		90.8	78 - 132				
Surr: Toluene-d8	50.0	µg/L	SW8260C			50.00		99.9	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906386-002CMS Date Analyzed: 06/17/2019 940h													
Test Code: 8260-W-DEN100													
Chloroform	21.1	µg/L	SW8260C	0.166	1.00	20.00	0	106	50 - 146				
Methylene chloride	25.0	µg/L	SW8260C	0.448	1.00	20.00	0	125	30 - 192				
Surr: 1,2-Dichloroethane-d4	58.9	µg/L	SW8260C			50.00		118	72 - 151				
Surr: 4-Bromofluorobenzene	46.0	µg/L	SW8260C			50.00		91.9	80 - 152				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	72 - 135				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.2	80 - 124				
Lab Sample ID: 1906386-019CMS Date Analyzed: 06/18/2019 844h													
Test Code: 8260-W-DEN100													
Chloroform	19.2	µg/L	SW8260C	0.166	1.00	20.00	0	96.2	50 - 146				
Methylene chloride	20.8	µg/L	SW8260C	0.448	1.00	20.00	0	104	30 - 192				
Surr: 1,2-Dichloroethane-d4	50.2	µg/L	SW8260C			50.00		101	72 - 151				
Surr: 4-Bromofluorobenzene	52.4	µg/L	SW8260C			50.00		105	80 - 152				
Surr: Dibromofluoromethane	46.9	µg/L	SW8260C			50.00		93.8	72 - 135				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	80 - 124				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906386
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906386-002CMSD Date Analyzed: 06/17/2019 1000h													
Test Code: 8260-W-DEN100													
Chloroform	23.2	µg/L	SW8260C	0.166	1.00	20.00	0	116	50 - 146	21.1	9.21	25	
Methylene chloride	26.1	µg/L	SW8260C	0.448	1.00	20.00	0	131	30 - 192	25	4.18	25	
Surr: 1,2-Dichloroethane-d4	58.5	µg/L	SW8260C			50.00		117	72 - 151				
Surr: 4-Bromofluorobenzene	47.1	µg/L	SW8260C			50.00		94.3	80 - 152				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	72 - 135				
Surr: Toluene-d8	47.6	µg/L	SW8260C			50.00		95.2	80 - 124				
Lab Sample ID: 1906386-019CMSD Date Analyzed: 06/18/2019 904h													
Test Code: 8260-W-DEN100													
Chloroform	19.7	µg/L	SW8260C	0.166	1.00	20.00	0	98.7	50 - 146	19.2	2.57	25	
Methylene chloride	21.2	µg/L	SW8260C	0.448	1.00	20.00	0	106	30 - 192	20.8	1.67	25	
Surr: 1,2-Dichloroethane-d4	51.4	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	50.9	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	46.8	µg/L	SW8260C			50.00		93.6	72 - 135				
Surr: Toluene-d8	50.7	µg/L	SW8260C			50.00		101	80 - 124				

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American West Analytical Laboratories

Rpt Emailed: UL Denison

WORK ORDER Summary

Work Order: **1906386**

Client: Energy Fuels Resources, Inc. Due Date: 6/28/2019

Client ID: ENE300 **Contact:** Tanner Holliday

Project: **Q2 Chloroform 2019** **QC Level:** III WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906386-001A	**TW4-03R_06122019**	6/12/2019 0615h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-002A	**TW4-03_06132019**	6/13/2019 0645h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-003A	**TW4-28_06132019**	6/13/2019 0705h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-004A	**TW4-32_06132019**	6/13/2019 0712h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-005A	**TW4-12_06132019**	6/13/2019 0720h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-005C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 06/14/19 10:27 LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed DB 6/14/19

WORK ORDER Summary

Work Order: **1906386**

Client: Energy Fuels Resources, Inc. Due Date: 6/28/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906386-006A	**TW4-13_06132019**	6/13/2019 0728h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-006B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-006C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-007A	**TW4-36_06132019**	6/13/2019 0736h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-007B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-007C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-008A	**TW4-31_06132019**	6/13/2019 0747h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-008B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-008C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-009A	**TW4-34_06132019**	6/13/2019 0758h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-009B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-009C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-010A	**TW4-35_06132019**	6/13/2019 0807h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-010B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-010C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-011A	**TW4-23_06132019**	6/13/2019 0831h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-011B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-011C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 06/14/19 10:27 LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1906386**

Client: Energy Fuels Resources, Inc. Due Date: 6/28/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906386-012A	**TW4-38_06132019**	6/13/2019 0841h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1906386-012C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1906386-013A	**TW4-14_06132019**	6/13/2019 0855h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-013B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1906386-013C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1906386-014A	**TW4-27_06132019**	6/13/2019 0906h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-014B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1906386-014C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1906386-015A	**TW4-05_06132019**	6/13/2019 0920h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-015B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1906386-015C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1906386-016A	**TW4-06_06132019**	6/13/2019 0935h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-016B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1906386-016C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1906386-017A	**TW4-30_06132019**	6/13/2019 0945h	6/14/2019 0955h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1906386-017B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	

WORK ORDER Summary

Work Order: **1906386**

Client: Energy Fuels Resources, Inc. Due Date: 6/28/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906386-017C	**TW4-30_06132019**	6/13/2019 0945h	6/14/2019 0955h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-018A	**TW4-65_06132019**	6/13/2019 0645h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-018B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-018C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-019A	**TW4-70_06132019**	6/13/2019 0841h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-019B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-019C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-020A	**TW4-60_06132019**	6/13/2019 1010h	6/14/2019 0955h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906386-020B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906386-020C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906386-021A	**Trip Blank**	6/12/2019 0615h	6/14/2019 0955h	**8260-W-DEN100**	Aqueous		df - wc	3

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

CHAIN OF CUSTODY

19063886
AWAL Lab Sample Set #
Page 1 of 2

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

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
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:

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered (UPS)
2 Ambient or Chilled
3 Temperature 0.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y (N)
5 Properly Preserved (Y) N
Checked at bench Y N
6 Received Within Holding Times (Y) N

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

Discrepancies Between Sample Labels and COC Record? Y (N)

	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_06122019	6/12/2019	615	5	W	X	X	X	
2	TW4-03_06132019	6/13/2019	645	5	W	X	X	X	
3	TW4-28_06132019	6/13/2019	705	5	W	X	X	X	
4	TW4-32_06132019	6/13/2019	712	5	W	X	X	X	
5	TW4-12_06132019	6/13/2019	720	5	W	X	X	X	
6	TW4-13_06132019	6/13/2019	728	5	W	X	X	X	
7	TW4-36_06132019	6/13/2019	736	5	W	X	X	X	
8	TW4-31_06132019	6/13/2019	747	5	W	X	X	X	
9	TW4-34_06132019	6/13/2019	758	5	W	X	X	X	
10	TW4-35_06132019	6/13/2019	807	5	W	X	X	X	
11	TW4-23_06132019	6/13/2019	831	5	W	X	X	X	
12	TW4-38_06132019	6/13/2019	841	5	W	X	X	X	
13	TW4-14_06132019	6/13/2019	855	5	W	X	X	X	

Relinquished by: Signature: Tanner Holliday	Date: 6/13/2019	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1200	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature: Claudia Rhodes	Date: 6/14/19
Print Name:	Time:	Print Name: Claudia Rhodes	Time: 09:55

Special Instructions:

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

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

CHAIN OF CUSTODY

1906386
AWAL Lab Sample Set #
Page 2 of 2

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

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

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

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-27_06132019	6/13/2019	906	5	W	X	X	X	
2	TW4-05_06132019	6/13/2019	920	5	W	X	X	X	
3	TW4-06_06132019	6/13/2019	935	5	W	X	X	X	
4	TW4-30_06132019	6/13/2019	945	5	W	X	X	X	
5	TW4-65_06132019	6/13/2019	645	5	W	X	X	X	
6	TW4-70_06132019	6/13/2019	841	5	W	X	X	X	
7	TW4-60_06132019	6/13/2019	1010	5	W	X	X	X	
8	Trip Blank	6/12/2019	615	3	W			X	
9									
10									
11									
12									
13									

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered (UPS)
2 Ambient or Chilled
3 Temperature 0.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y (N)
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times (Y) N

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

Discrepancies Between Sample Labels and COC Record? Y (N)

Relinquished by: Signature: Tanner Holliday	Date: 6/13/2019	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1200	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature: cmmrodes	Date: 6/14/19
Print Name:	Time:	Print Name: Carole Rhodes	Time: 09:55

Special Instructions:

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

Lab Set ID: 1906386

pH Lot #: 5912

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20
Ammonia	pH <2 H_2SO_4																				
COD	pH <2 H_2SO_4																				
Cyanide	pH >12 NaOH																				
Metals	pH <2 HNO_3																				
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	½	½	½	½
O & G	pH <2 HCL																				
Phenols	pH <2 H_2SO_4																				
Sulfide	pH >9 NaOH, Zn Acetate																				
TKN	pH <2 H_2SO_4																				
T PO_4	pH <2 H_2SO_4																				

Procedure:

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

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

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

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

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

American West
ANALYTICAL LABORATORIES

Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: Q2 Chloroform 2019

Dear Tanner Holliday: Lab Set ID: 1906517

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

American West Analytical Laboratories received sample(s) on 6/20/2019 for the analyses presented in the following report.

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

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

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

Thank You,

Approved by: Jose G. Rocha
Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2019.07.05 14:33:38 -06'00'

Laboratory Director or designee

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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906517
Date Received: 6/20/2019 1000h

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
1906517-001A	TW4-18R_06182019	6/18/2019 620h	Aqueous	Anions, E300.0
1906517-001B	TW4-18R_06182019	6/18/2019 620h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-001C	TW4-18R_06182019	6/18/2019 620h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-002A	MW-32_06182019	6/18/2019 1130h	Aqueous	Anions, E300.0
1906517-002B	MW-32_06182019	6/18/2019 1130h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-002C	MW-32_06182019	6/18/2019 1130h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-003A	TW4-18_06192019	6/19/2019 610h	Aqueous	Anions, E300.0
1906517-003B	TW4-18_06192019	6/19/2019 610h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-003C	TW4-18_06192019	6/19/2019 610h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-004A	TW4-16_06192019	6/19/2019 625h	Aqueous	Anions, E300.0
1906517-004B	TW4-16_06192019	6/19/2019 625h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-004C	TW4-16_06192019	6/19/2019 625h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-005A	TW4-33_06192019	6/19/2019 634h	Aqueous	Anions, E300.0
1906517-005B	TW4-33_06192019	6/19/2019 634h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-005C	TW4-33_06192019	6/19/2019 634h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-006A	TW4-09_06192019	6/19/2019 645h	Aqueous	Anions, E300.0
1906517-006B	TW4-09_06192019	6/19/2019 645h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-006C	TW4-09_06192019	6/19/2019 645h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-007A	TW4-08_06192019	6/19/2019 653h	Aqueous	Anions, E300.0
1906517-007B	TW4-08_06192019	6/19/2019 653h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-007C	TW4-08_06192019	6/19/2019 653h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-008A	TW4-29_06192019	6/19/2019 701h	Aqueous	Anions, E300.0
1906517-008B	TW4-29_06192019	6/19/2019 701h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-008C	TW4-29_06192019	6/19/2019 701h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-009A	TW4-07_06192019	6/19/2019 711h	Aqueous	Anions, E300.0
1906517-009B	TW4-07_06192019	6/19/2019 711h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-009C	TW4-07_06192019	6/19/2019 711h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-010A	TW4-10_06192019	6/19/2019 723h	Aqueous	Anions, E300.0

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

American West
ANALYTICAL LABORATORIES

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

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906517
Date Received: 6/20/2019 1000h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1906517-010B	TW4-10_06192019	6/19/2019 723h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-010C	TW4-10_06192019	6/19/2019 723h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-011A	TW4-26_06192019	6/19/2019 733h	Aqueous	Anions, E300.0
1906517-011B	TW4-26_06192019	6/19/2019 733h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-011C	TW4-26_06192019	6/19/2019 733h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-012A	TW4-42_06192019	6/19/2019 744h	Aqueous	Anions, E300.0
1906517-012B	TW4-42_06192019	6/19/2019 744h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-012C	TW4-42_06192019	6/19/2019 744h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-013A	TW4-75_06192019	6/19/2019 610h	Aqueous	Anions, E300.0
1906517-013B	TW4-75_06192019	6/19/2019 610h	Aqueous	Nitrite/Nitrate (as N), E353.2
1906517-013C	TW4-75_06192019	6/19/2019 610h	Aqueous	VOA by GC/MS Method 8260C/5030C
1906517-014A	Trip Blank	6/18/2019 620h	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: Q2 Chloroform 2019
Lab Set ID: 1906517

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

Sample Receipt Information:

Date of Receipt:	6/20/2019
Date(s) of Collection:	6/18 and 6/19/2019
Sample Condition:	Intact
C-O-C Discrepancies:	None

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

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

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

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

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

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

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

Corrective Action: None required.

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

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Q2 Chloroform 2019
Lab Set ID:	1906517

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

Sample Receipt Information:

Date of Receipt:	6/20/2019
Date(s) of Collection:	6/18 and 6/19/2019
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.

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

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ANALYTICAL LABORATORIES

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R127523 Date Analyzed: 06/28/2019 1303h													
Test Code: 300.0-W													
Chloride	5.00	mg/L	E300.0	0.0386	0.100	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R127574 Date Analyzed: 06/29/2019 1545h													
Test Code: 300.0-W													
Chloride	4.99	mg/L	E300.0	0.0386	0.100	5.000	0	99.7	90 - 110				
Lab Sample ID: LCS-R127215 Date Analyzed: 06/21/2019 752h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00363	0.0100	1.000	0	107	90 - 110				
Lab Sample ID: LCS-R127216 Date Analyzed: 06/21/2019 833h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00363	0.0100	1.000	0	108	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: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R127523 Date Analyzed: 06/28/2019 1246h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Lab Sample ID: MB-R127574 Date Analyzed: 06/29/2019 1529h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0386	0.100								
Lab Sample ID: MB-R127215 Date Analyzed: 06/21/2019 751h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	0.0100								
Lab Sample ID: MB-R127216 Date Analyzed: 06/21/2019 912h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00363	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: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906517-004AMS Date Analyzed: 06/29/2019 247h Test Code: 300.0-W													
Chloride	166	mg/L	E300.0	0.772	2.00	100.0	71.5	94.6	90 - 110				
Lab Sample ID: 1906517-010AMS Date Analyzed: 06/29/2019 1905h Test Code: 300.0-W													
Chloride	108	mg/L	E300.0	0.386	1.00	50.00	58.7	98.7	90 - 110				
Lab Sample ID: 1906517-011BMS Date Analyzed: 06/21/2019 913h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	33.0	mg/L	E353.2	0.0726	0.200	20.00	12.7	102	90 - 110				
Lab Sample ID: 1906517-002BMS Date Analyzed: 06/21/2019 910h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0363	0.100	10.00	0.0134	105	90 - 110				

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906517-004AMSD Date Analyzed: 06/29/2019 304h Test Code: 300.0-W													
Chloride	169	mg/L	E300.0	0.772	2.00	100.0	71.5	97.4	90 - 110	166	1.69	20	
Lab Sample ID: 1906517-010AMSD Date Analyzed: 06/29/2019 1922h Test Code: 300.0-W													
Chloride	109	mg/L	E300.0	0.386	1.00	50.00	58.7	100	90 - 110	108	0.603	20	
Lab Sample ID: 1906517-011BMSD Date Analyzed: 06/21/2019 904h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	32.2	mg/L	E353.2	0.0726	0.200	20.00	12.7	97.9	90 - 110	33	2.45	10	
Lab Sample ID: 1906517-002BMSD Date Analyzed: 06/21/2019 911h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0363	0.100	10.00	0.0134	104	90 - 110	10.5	0.286	10	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 062019A Date Analyzed: 06/20/2019 1156h													
Test Code: 8260-W-DEN100													
Chloroform	20.6	µg/L	SW8260C	0.166	1.00	20.00	0	103	85 - 124				
Methylene chloride	20.9	µg/L	SW8260C	0.448	1.00	20.00	0	104	65 - 154				
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260C			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	50.3	µg/L	SW8260C			50.00		101	85 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.6	78 - 132				
Surr: Toluene-d8	49.3	µg/L	SW8260C			50.00		98.7	81 - 123				
Lab Sample ID: LCS VOC-1 062119A Date Analyzed: 06/21/2019 857h													
Test Code: 8260-W-DEN100													
Chloroform	19.3	µg/L	SW8260C	0.166	1.00	20.00	0	96.7	85 - 124				
Surr: 1,2-Dichloroethane-d4	52.7	µg/L	SW8260C			50.00		105	80 - 136				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	78 - 132				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		99.0	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 062019A Date Analyzed: 06/20/2019 1236h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.262	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.832	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.448	1.00								
Surr: 1,2-Dichloroethane-d4	51.4	µg/L	SW8260C			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	52.0	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	78 - 132				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	81 - 123				
Lab Sample ID: MB VOC-1 062119A Date Analyzed: 06/21/2019 917h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.166	1.00								
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260C			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.4	85 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		99.9	78 - 132				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.9	81 - 123				

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Salt Lake City, UT 84119
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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906517-001CMS Date Analyzed: 06/20/2019 1544h													
Test Code: 8260-W-DEN100													
Chloroform	18.9	µg/L	SW8260C	0.166	1.00	20.00	0	94.6	50 - 146				
Methylene chloride	20.4	µg/L	SW8260C	0.448	1.00	20.00	0	102	30 - 192				
Surr: 1,2-Dichloroethane-d4	51.5	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.2	80 - 152				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		100	72 - 135				
Surr: Toluene-d8	49.8	µg/L	SW8260C			50.00		99.6	80 - 124				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1906517
Project: Q2 Chloroform 2019

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1906517-001CMSD	Date Analyzed:	06/20/2019 1604h											
Test Code: 8260-W-DEN100													
Chloroform	19.3	µg/L	SW8260C	0.166	1.00	20.00	0	96.7	50 - 146	18.9	2.14	25	
Methylene chloride	20.6	µg/L	SW8260C	0.448	1.00	20.00	0	103	30 - 192	20.4	1.17	25	
Surr: 1,2-Dichloroethane-d4	51.6	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	50.9	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	50.5	µg/L	SW8260C			50.00		101	72 - 135				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	80 - 124				

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Rpt Emailed: UL Denison

WORK ORDER Summary

Work Order: **1906517**

Client: Energy Fuels Resources, Inc. Due Date: 7/5/2019

Client ID: ENE300 **Contact:** Tanner Holliday

Project: **Q2 Chloroform 2019** **QC Level:** III WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; Do not use "*R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906517-001A	**TW4-18R_06182019**	6/18/2019 0620h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-002A	**MW-32_06182019**	6/18/2019 1130h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-003A	**TW4-18_06192019**	6/19/2019 0610h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-004A	**TW4-16_06192019**	6/19/2019 0625h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-005A	**TW4-33_06192019**	6/19/2019 0634h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-005C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 06/24/19 11:34 LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1906517**

Client: Energy Fuels Resources, Inc. Due Date: 7/5/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906517-006A	**TW4-09_06192019**	6/19/2019 0645h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-006B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-006C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-007A	**TW4-08_06192019**	6/19/2019 0653h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-007B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-007C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-008A	**TW4-29_06192019**	6/19/2019 0701h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-008B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-008C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-009A	**TW4-07_06192019**	6/19/2019 0711h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-009B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-009C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-010A	**TW4-10_06192019**	6/19/2019 0723h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-010B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-010C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-011A	**TW4-26_06192019**	6/19/2019 0733h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-011B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-011C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1906517**

Client: Energy Fuels Resources, Inc. Due Date: 7/5/2019

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1906517-012A	**TW4-42_06192019**	6/19/2019 0744h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-012B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-012C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-013A	**TW4-75_06192019**	6/19/2019 0610h	6/20/2019 1000h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1906517-013B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1906517-013C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1906517-014A	**Trip Blank**	6/18/2019 0620h	6/20/2019 1000h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

American West
Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
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.

1906517
AWAL Lab Sample Set #
Page 1 of 2

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

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

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

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-18R_06182019	6/18/2019	620	5	W	X	X	X	
2	MW-32_06182019	6/18/2019	1130	5	W	X	X	X	
3	TW4-18_06192019	6/19/2019	610	5	W	X	X	X	
4	TW4-16_06192019	6/19/2019	625	5	W	X	X	X	
5	TW4-33_06192019	6/19/2019	634	5	W	X	X	X	
6	TW4-09_06192019	6/19/2019	645	5	W	X	X	X	one vial rec broken
7	TW4-08_06192019	6/19/2019	653	5	W	X	X	X	
8	TW4-29_06192019	6/19/2019	701	5	W	X	X	X	
9	TW4-07_06192019	6/19/2019	711	5	W	X	X	X	
10	TW4-10_06192019	6/19/2019	723	5	W	X	X	X	
11	TW4-26_06192019	6/19/2019	733	5	W	X	X	X	
12	TW4-42_06192019	6/19/2019	744	5	W	X	X	X	
13	TW4-75_06192019	6/19/2019	610	5	W	X	X	X	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 0.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
1 vial rec broken
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature: Tanner Holliday	Date: 6/19/2019	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1130	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature: Elena Hayward	Date: 6/20/19
Print Name:	Time:	Print Name: Elena Hayward	Time: 1609
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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

American West
Analytical Laboratories
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CHAIN OF CUSTODY

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

1906517
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		

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; tholliday@energyfuels.com**
Project Name: **Q2 Chloroform 2019**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

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

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered UPS
2 Ambient or Chilled
3 Temperature 0.9 °C
4 Received Broken/Leaking (Improperly Sealed) Y or N Individually Wrapped
5 Properly Preserved Y or N broken
Checked at bench Y N
6 Received Within Holding Times Y N

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
14	**Trip Blank**	**6/18/2019**	**620**	3	W			X	

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

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name: Tanner Holliday	6/19/2019	1130	Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date: 6/20/19	Time: 1000
Print Name:			Print Name: Elena Hayden		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		

Special Instructions:

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

Lab Set ID: 1906517

pH Lot #: 5912

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_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

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

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

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

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

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

Tab 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	Temperature		RPD	Redox		RPD	Turbidity		RPD
MW-04	NA	Continuously Pumped well	--		1862		NC	6.82		NC	14.65		NC	425		NC	0		NC
MW-26	NA	Continuously Pumped well	--		3434		NC	6.63		NC	14.23		NC	430		NC	0		NC
MW-32	32.84	67.27	65.68	okay	3757	3741	0.43	6.37	6.36	0.16	15.10	15.09	0.07	379	362	4.59	7.0	7.3	4.20
TW4-01	NA	Continuously Pumped well	--		3256		NC	6.80		NC	14.83		NC	429		NC	0		NC
TW4-02	NA	Continuously Pumped well	--		3527		NC	6.73		NC	14.38		NC	416		NC	0		NC
TW4-03	51.03	71.50	102.06	Pumped Dry	1769	1775	0.34	6.44	6.45	0.16	15.52	15.55	0.19	NM		NC	NM		NC
TW4-04	NA	Continuously Pumped well	--		2327		NC	6.95		NC	14.87		NC	452		NC	0		NC
TW4-05	34.11	88.00	68.22	okay	1481	1471	0.68	6.71	6.70	0.15	15.55	15.54	0.06	526	526	0.00	0	0	0.00
TW4-06	15.16	16.50	30.32	Pumped Dry	3865	3850	0.39	6.43	6.44	0.16	16.84	16.86	0.12	NM		NC	NM		NC
TW4-07	25.70	52.25	51.4	Pumped Dry	1567	1574	0.45	6.94	6.94	0.00	14.85	14.83	0.13	NM		NC	NM		NC
TW4-08	27.06	66.00	54.12	okay	4926	4928	0.04	6.44	6.44	0.00	15.08	15.08	0.00	526	525	0.19	0	0	0.00
TW4-09	34.25	99.00	68.5	okay	2445	2440	0.20	6.51	6.50	0.15	15.05	15.05	0.00	492	489	0.61	52.0	52.1	0.19
TW4-10	30.06	41.25	60.12	Pumped Dry	2675	2674	0.04	6.47	6.47	0.00	14.75	14.75	0.00	NM		NC	NM		NC
TW4-11	NA	Continuously Pumped well	--		3676		NC	6.70		NC	14.23		NC	390		NC	0		NC
TW4-12	32.33	41.25	64.66	Pumped Dry	1366	1365	0.07	6.99	7.00	0.14	14.63	14.65	0.14	NM		NC	NM		NC
TW4-13	32.87	41.25	65.74	Pumped Dry	1989	1997	0.40	7.04	7.04	0.00	14.76	14.75	0.07	NM		NC	NM		NC
TW4-14	11.19	11.00	22.38	Pumped Dry	5248	5267	0.36	6.38	6.35	0.47	16.80	16.78	0.12	NM		NC	NM		NC
TW4-16	49.48	121.00	98.96	okay	3562	3690	3.53	6.43	6.43	0.00	14.85	14.86	0.07	495	474	4.33	15.0	15.1	0.66
TW4-18	43.24	99.00	86.48	okay	1879	1825	2.92	6.22	6.24	0.32	15.50	15.50	0.00	560	559	0.18	13.3	13.0	2.28
TW4-19	NA	Continuously Pumped well	--		2775		NC	6.56		NC	15.37		NC	467		NC	0		NC
TW4-20	NA	Continuously Pumped well	--		4054		NC	6.23		NC	15.45		NC	458		NC	0		NC
TW4-21	NA	Continuously Pumped well	--		4060		NC	6.77		NC	16.17		NC	556		NC	0		NC
TW4-22	NA	Continuously Pumped well	--		5956		NC	6.79		NC	14.94		NC	432		NC	0		NC
TW4-23	28.14	99.00	56.28	okay	3528	3526	0.06	6.59	6.59	0.00	14.75	14.75	0.00	343	344	0.29	71.0	71.0	0.00
TW4-24	NA	Continuously Pumped well	--		8634		NC	6.55		NC	14.79		NC	425		NC	1.1		NC
TW4-25	NA	Continuously Pumped well	--		2511		NC	6.84		NC	15.43		NC	486		NC	0		NC
TW4-26	11.23	11.00	22.46	Pumped Dry	4648	4653	0.11	6.71	6.72	0.15	14.72	14.74	0.14	NM		NC	NM		NC
TW4-27	11.00	11.00	22	Pumped Dry	5277	5289	0.23	6.41	6.42	0.16	16.85	16.89	0.24	NM		NC	NM		NC
TW4-28	40.36	49.50	80.72	Pumped Dry	1516	1519	0.20	6.79	6.80	0.15	14.48	14.45	0.21	NM		NC	NM		NC
TW4-29	11.77	11.00	23.54	Pumped Dry	4071	4065	0.15	6.80	6.79	0.15	14.63	14.65	0.14	NM		NC	NM		NC
TW4-30	12.10	16.50	24.2	Pumped Dry	4392	4393	0.02	5.68	5.67	0.18	16.25	16.20	0.31	NM		NC	NM		NC
TW4-31	19.96	22.00	39.92	Pumped Dry	4168	4170	0.05	6.82	6.83	0.15	15.10	15.12	0.13	NM		NC	NM		NC
TW4-32	39.14	110.00	78.28	okay	6494	6535	0.63	3.58	3.59	0.28	14.95	14.94	0.07	530	528	0.38	6.9	7.0	1.44
TW4-33	6.86	7.33	13.72	Pumped Dry	4275	4278	0.07	6.79	6.81	0.29	15.08	15.10	0.13	NM		NC	NM		NC
TW4-34	13.75	16.50	27.5	Pumped Dry	3622	3625	0.08	6.90	6.90	0.00	15.02	15.03	0.07	NM		NC	NM		NC
TW4-35	7.67	8.25	15.34	Pumped Dry	4358	4359	0.02	6.51	6.49	0.31	15.16	15.20	0.26	NM		NC	NM		NC
TW4-36	27.60	33.00	55.2	Pumped Dry	2415	2425	0.41	6.86	6.87	0.15	14.65	14.67	0.14	NM		NC	NM		NC
TW4-37	NA	Continuously Pumped well	--		4558		NC	6.33		NC	15.29		NC	454		NC	0		NC
TW4-38	36.72	77.00	73.44	okay	1780	1789	0.50	6.87	6.87	0.00	14.88	14.89	0.07	495	495	0.00	30.0	31.0	3.28
TW4-39	NA	Continuously Pumped well	--		2214		NC	6.68		NC	15.11		NC	404		NC	0		NC
TW4-40	NA	Continuously Pumped well	--		4146		NC	6.42		NC	14.85		NC	465		NC	0		NC
TW4-41	NA	Continuously Pumped well	--		2769		NC	6.84		NC	15.36		NC	402		NC	0		NC
TW4-42	12.70	14.66	25.4	Pumped Dry	3504	3510	0.17	7.01	7.02	0.14	14.90	14.95	0.34	NM		NC	NM		NC
TW4-60				okay	1.7		NC	7.35		NC	21.90		NC	490		NC	0		NC

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, TW4-39, TW4-40, TW4-41 are continually pumped wells.

TW4-03, TW4-06, TW4-07, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, TW4-36, TW4-42 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	6/5/2019	6/6/2019	1	14	OK
Trip Blank	Chloroform	6/5/2019	6/6/2019	1	14	OK
Trip Blank	Chloromethane	6/5/2019	6/6/2019	1	14	OK
Trip Blank	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
Trip Blank	Carbon tetrachloride	6/12/2019	6/17/2019	5	14	OK
Trip Blank	Chloroform	6/12/2019	6/17/2019	5	14	OK
Trip Blank	Chloromethane	6/12/2019	6/17/2019	5	14	OK
Trip Blank	Methylene chloride	6/12/2019	6/17/2019	5	14	OK
Trip Blank	Carbon tetrachloride	6/18/2019	6/20/2019	2	14	OK
Trip Blank	Chloroform	6/18/2019	6/20/2019	2	14	OK
Trip Blank	Chloromethane	6/18/2019	6/20/2019	2	14	OK
Trip Blank	Methylene chloride	6/18/2019	6/20/2019	2	14	OK
MW-04	Chloride	6/5/2019	6/14/2019	9	28	OK
MW-04	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
MW-04	Chloroform	6/5/2019	6/7/2019	2	14	OK
MW-04	Chloromethane	6/5/2019	6/6/2019	1	14	OK
MW-04	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
MW-04	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
MW-26	Chloride	6/5/2019	6/14/2019	9	28	OK
MW-26	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
MW-26	Chloroform	6/5/2019	6/7/2019	2	14	OK
MW-26	Chloromethane	6/5/2019	6/6/2019	1	14	OK
MW-26	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
MW-26	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
MW-32	Chloride	6/18/2019	6/29/2019	11	28	OK
MW-32	Carbon tetrachloride	6/18/2019	6/20/2019	2	14	OK
MW-32	Chloroform	6/18/2019	6/20/2019	2	14	OK
MW-32	Chloromethane	6/18/2019	6/20/2019	2	14	OK
MW-32	Methylene chloride	6/18/2019	6/20/2019	2	14	OK
MW-32	Nitrate/Nitrite (as N)	6/18/2019	6/21/2019	3	28	OK
TW4-01	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-01	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-01	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-01	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-01	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-01	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-02	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-02	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-02	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-02	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-02	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-02	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-03	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-03	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-03	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-03	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-03	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-03	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-03R	Chloride	6/12/2019	6/28/2019	16	28	OK
TW4-03R	Carbon tetrachloride	6/12/2019	6/17/2019	5	14	OK
TW4-03R	Chloroform	6/12/2019	6/17/2019	5	14	OK
TW4-03R	Chloromethane	6/12/2019	6/17/2019	5	14	OK
TW4-03R	Methylene chloride	6/12/2019	6/17/2019	5	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-03R	Nitrate/Nitrite (as N)	6/12/2019	6/18/2019	6	28	OK
TW4-04	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-04	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-04	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-04	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-04	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-04	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-05	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-05	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-05	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-05	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-05	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-05	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-06	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-06	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-06	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-06	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-06	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-06	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-07	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-07	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-07	Chloroform	6/19/2019	6/21/2019	2	14	OK
TW4-07	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-07	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-07	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-08	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-08	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-08	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-08	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-08	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-08	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-09	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-09	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-09	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-09	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-09	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-09	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-10	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-10	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-10	Chloroform	6/19/2019	6/21/2019	2	14	OK
TW4-10	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-10	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-10	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-11	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-11	Carbon tetrachloride	6/5/2019	6/7/2019	2	14	OK
TW4-11	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-11	Chloromethane	6/5/2019	6/7/2019	2	14	OK
TW4-11	Methylene chloride	6/5/2019	6/7/2019	2	14	OK
TW4-11	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-12	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-12	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-12	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-12	Chloromethane	6/13/2019	6/17/2019	4	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-12	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-12	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-13	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-13	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-13	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-13	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-13	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-13	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-14	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-14	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-14	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-14	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-14	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-14	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-16	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-16	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-16	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-16	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-16	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-16	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-18	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-18	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-18	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-18	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-18	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-18	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-18R	Chloride	6/18/2019	6/29/2019	11	28	OK
TW4-18R	Carbon tetrachloride	6/18/2019	6/20/2019	2	14	OK
TW4-18R	Chloroform	6/18/2019	6/20/2019	2	14	OK
TW4-18R	Chloromethane	6/18/2019	6/20/2019	2	14	OK
TW4-18R	Methylene chloride	6/18/2019	6/20/2019	2	14	OK
TW4-18R	Nitrate/Nitrite (as N)	6/18/2019	6/21/2019	3	28	OK
TW4-19	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-19	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-19	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-19	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-19	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-19	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-20	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-20	Carbon tetrachloride	6/5/2019	6/7/2019	2	14	OK
TW4-20	Chloroform	6/5/2019	6/6/2019	1	14	OK
TW4-20	Chloromethane	6/5/2019	6/7/2019	2	14	OK
TW4-20	Methylene chloride	6/5/2019	6/7/2019	2	14	OK
TW4-20	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-21	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-21	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-21	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-21	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-21	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-21	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-22	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-22	Carbon tetrachloride	6/5/2019	6/7/2019	2	14	OK
TW4-22	Chloroform	6/5/2019	6/7/2019	2	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-22	Chloromethane	6/5/2019	6/7/2019	2	14	OK
TW4-22	Methylene chloride	6/5/2019	6/7/2019	2	14	OK
TW4-22	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-23	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-23	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-23	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-23	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-23	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-23	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-24	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-24	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-24	Chloroform	6/5/2019	6/6/2019	1	14	OK
TW4-24	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-24	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-24	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-25	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-25	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-25	Chloroform	6/5/2019	6/6/2019	1	14	OK
TW4-25	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-25	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-25	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-26	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-26	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-26	Chloroform	6/19/2019	6/21/2019	2	14	OK
TW4-26	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-26	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-26	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-27	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-27	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-27	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-27	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-27	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-27	Nitrate/Nitrite (as N)	6/13/2019	6/20/2019	7	28	OK
TW4-28	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-28	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-28	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-28	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-28	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-28	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-29	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-29	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-29	Chloroform	6/19/2019	6/21/2019	2	14	OK
TW4-29	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-29	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-29	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-30	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-30	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-30	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-30	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-30	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-30	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-31	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-31	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-31	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-31	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-31	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-31	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-32	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-32	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-32	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-32	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-32	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-32	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-33	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-33	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-33	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-33	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-33	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-33	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-34	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-34	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-34	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-34	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-34	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-34	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-35	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-35	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-35	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-35	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-35	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-35	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-36	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-36	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-36	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-36	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-36	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-36	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-37	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-37	Carbon tetrachloride	6/5/2019	6/7/2019	2	14	OK
TW4-37	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-37	Chloromethane	6/5/2019	6/7/2019	2	14	OK
TW4-37	Methylene chloride	6/5/2019	6/7/2019	2	14	OK
TW4-37	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-38	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-38	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-38	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-38	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-38	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-38	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-39	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-39	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-39	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-39	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-39	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-39	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-40	Chloride	6/5/2019	6/14/2019	9	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-40	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-40	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-40	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-40	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-40	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-41	Chloride	6/5/2019	6/14/2019	9	28	OK
TW4-41	Carbon tetrachloride	6/5/2019	6/6/2019	1	14	OK
TW4-41	Chloroform	6/5/2019	6/7/2019	2	14	OK
TW4-41	Chloromethane	6/5/2019	6/6/2019	1	14	OK
TW4-41	Methylene chloride	6/5/2019	6/6/2019	1	14	OK
TW4-41	Nitrate/Nitrite (as N)	6/5/2019	6/11/2019	6	28	OK
TW4-42	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-42	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-42	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-42	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-42	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-42	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK
TW4-60	Chloride	6/13/2019	6/29/2019	16	28	OK
TW4-60	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-60	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-60	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-60	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-60	Nitrate/Nitrite (as N)	6/13/2019	6/20/2019	7	28	OK
TW4-65	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-65	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-65	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-65	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-65	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-65	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-70	Chloride	6/13/2019	6/28/2019	15	28	OK
TW4-70	Carbon tetrachloride	6/13/2019	6/17/2019	4	14	OK
TW4-70	Chloroform	6/13/2019	6/17/2019	4	14	OK
TW4-70	Chloromethane	6/13/2019	6/17/2019	4	14	OK
TW4-70	Methylene chloride	6/13/2019	6/17/2019	4	14	OK
TW4-70	Nitrate/Nitrite (as N)	6/13/2019	6/18/2019	5	28	OK
TW4-75	Chloride	6/19/2019	6/29/2019	10	28	OK
TW4-75	Carbon tetrachloride	6/19/2019	6/20/2019	1	14	OK
TW4-75	Chloroform	6/19/2019	6/20/2019	1	14	OK
TW4-75	Chloromethane	6/19/2019	6/20/2019	1	14	OK
TW4-75	Methylene chloride	6/19/2019	6/20/2019	1	14	OK
TW4-75	Nitrate/Nitrite (as N)	6/19/2019	6/21/2019	2	28	OK

Table I-3 Recipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1906140	MW-04, TW4-01, TW4-02, TW4-04, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, TW4-39, TW4-40, TW4-41, Trip Blank	2.9°C
1906386	TW4-03, TW4-03R, TW4-05, TW4-06, TW4-12, TW4-13, TW4-14, TW4-23, TW4-27, TW4-28, TW4-30, TW4-31, TW4-32, TW4-34, TW4-35, TW4-36, TW4-38, TW4-60, TW4-65, TW4-70, Trip Blank	0.9°C
1906517	TW4-07, TW4-08, TW4-09, TW4-10, TW4-16, MW-32, TW4-18, TW4-18R, TW4-26, TW4-29, TW4-33, TW4-42, TW4-75, Trip Blank	0.9°C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
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 specificied 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	1	mg/L		10	1	OK
MW-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-04	Chloroform	50	ug/L		50	1	OK
MW-04	Chloromethane	1	ug/L	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
MW-26	Chloride	1	mg/L		10	1	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloroform	50	ug/L		50	1	OK
MW-26	Chloromethane	1	ug/L	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
MW-32	Chloride	1	mg/L		5	1	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-32	Chloroform	1	ug/L	U	1	1	OK
MW-32	Chloromethane	1	ug/L	U	1	1	OK
MW-32	Methylene chloride	1	ug/L	U	1	1	OK
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-01	Chloride	1	mg/L		10	1	OK
TW4-01	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-01	Chloroform	50	ug/L		50	1	OK
TW4-01	Chloromethane	1	ug/L	U	1	1	OK
TW4-01	Methylene chloride	1	ug/L	U	1	1	OK
TW4-01	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-02	Chloride	1	mg/L		10	1	OK
TW4-02	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-02	Chloroform	100	ug/L		100	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	1	mg/L		5	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		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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-04	Chloride	1	mg/L		10	1	OK
TW4-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-04	Chloroform	50	ug/L		50	1	OK
TW4-04	Chloromethane	1	ug/L	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	1	mg/L		10	1	OK
TW4-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-05	Chloroform	1	ug/L		1	1	OK
TW4-05	Chloromethane	1	ug/L	U	1	1	OK
TW4-05	Methylene chloride	1	ug/L	U	1	1	OK
TW4-05	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-06	Chloride	1	mg/L		5	1	OK
TW4-06	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06	Chloroform	1	ug/L		1	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
TW4-07	Chloride	1	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	1	mg/L		5	1	OK
TW4-08	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-08	Chloroform	1	ug/L		1	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		10	0.1	OK
TW4-09	Chloride	1	mg/L		5	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	1	mg/L		10	1	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-10	Chloroform	10	ug/L		10	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	2	mg/L		20	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		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	1	mg/L		10	1	OK
TW4-12	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-12	Chloroform	1	ug/L	U	1	1	OK
TW4-12	Chloromethane	1	ug/L	U	1	1	OK
TW4-12	Methylene chloride	1	ug/L	U	1	1	OK
TW4-12	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-13	Chloride	1	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	1	mg/L		5	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	U	1	1	OK
TW4-14	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-16	Chloride	1	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
TW4-18	Chloride	1	mg/L		5	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
TW4-18R	Chloride	1	mg/L	U	1	1	OK
TW4-18R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-18R	Chloroform	1	ug/L	U	1	1	OK
TW4-18R	Chloromethane	1	ug/L	U	1	1	OK
TW4-18R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-18R	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-19	Chloride	2	mg/L		20	1	OK
TW4-19	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-19	Chloroform	500	ug/L		500	1	OK
TW4-19	Chloromethane	1	ug/L	U	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	5	mg/L		50	1	OK
TW4-20	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-20	Chloroform	500	ug/L		500	1	OK
TW4-20	Chloromethane	1	ug/L	U	1	1	OK
TW4-20	Methylene chloride	1	ug/L	U	1	1	OK
TW4-20	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-21	Chloride	5	mg/L		50	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	5	mg/L		50	1	OK
TW4-22	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-22	Chloroform	100	ug/L		100	1	OK
TW4-22	Chloromethane	1	ug/L		1	1	OK
TW4-22	Methylene chloride	1	ug/L	U	1	1	OK
TW4-22	Nitrate/Nitrite (as N)	1	mg/L		100	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-23	Chloride	1	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	10	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)	0.4	mg/L		40	0.1	OK
TW4-25	Chloride	1	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	1	mg/L		5	1	OK
TW4-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-26	Chloroform	50	ug/L		50	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	1	mg/L		5	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	1	mg/L		10	1	OK
TW4-28	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-28	Chloroform	1	ug/L	U	1	1	OK
TW4-28	Chloromethane	1	ug/L	U	1	1	OK
TW4-28	Methylene chloride	1	ug/L	U	1	1	OK
TW4-28	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-29	Chloride	1	mg/L		5	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	1	mg/L		5	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		10	0.1	OK
TW4-31	Chloride	1	mg/L		5	1	OK
TW4-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-31	Chloroform	1	ug/L	U	1	1	OK
TW4-31	Chloromethane	1	ug/L	U	1	1	OK
TW4-31	Methylene chloride	1	ug/L	U	1	1	OK
TW4-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-32	Chloride	1	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	1	mg/L		5	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)	0.1	mg/L		10	0.1	OK
TW4-34	Chloride	1	mg/L		5	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		10	0.1	OK
TW4-35	Chloride	1	mg/L		5	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	1	mg/L		10	1	OK
TW4-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-36	Chloroform	1	ug/L	U	1	1	OK
TW4-36	Chloromethane	1	ug/L	U	1	1	OK
TW4-36	Methylene chloride	1	ug/L	U	1	1	OK
TW4-36	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-37	Chloride	5	mg/L		50	1	OK
TW4-37	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-37	Chloroform	500	ug/L		500	1	OK
TW4-37	Chloromethane	1	ug/L	U	1	1	OK
TW4-37	Methylene chloride	1	ug/L	U	1	1	OK
TW4-37	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
TW4-38	Chloride	1	mg/L		5	1	OK
TW4-38	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-38	Chloroform	1	ug/L	U	1	1	OK
TW4-38	Chloromethane	1	ug/L	U	1	1	OK
TW4-38	Methylene chloride	1	ug/L	U	1	1	OK
TW4-38	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-39	Chloride	1	mg/L		10	1	OK
TW4-39	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-39	Chloroform	500	ug/L		500	1	OK
TW4-39	Chloromethane	1	ug/L	U	1	1	OK
TW4-39	Methylene chloride	1	ug/L	U	1	1	OK
TW4-39	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-40	Chloride	1	mg/L		10	1	OK
TW4-40	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-40	Chloroform	10	ug/L		10	1	OK
TW4-40	Chloromethane	1	ug/L	U	1	1	OK
TW4-40	Methylene chloride	1	ug/L	U	1	1	OK
TW4-40	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-41	Chloride	1	mg/L		10	1	OK
TW4-41	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-41	Chloroform	50	ug/L		50	1	OK
TW4-41	Chloromethane	1	ug/L	U	1	1	OK
TW4-41	Methylene chloride	1	ug/L	U	1	1	OK
TW4-41	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-42	Chloride	1	mg/L		5	1	OK
TW4-42	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-42	Chloroform	1	ug/L	U	1	1	OK
TW4-42	Chloromethane	1	ug/L	U	1	1	OK
TW4-42	Methylene chloride	1	ug/L	U	1	1	OK
TW4-42	Nitrate/Nitrite (as N)	0.1	mg/L		10	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		1	1	OK
TW4-60	Chloromethane	1	ug/L	U	1	1	OK
TW4-60	Methylene chloride	1	ug/L	U	1	1	OK
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
TW4-65	Chloride	1	mg/L		1	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)	0.1	mg/L		10	0.1	OK
TW4-70	Chloride	1	mg/L		5	1	OK
TW4-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-70	Chloroform	1	ug/L	U	1	1	OK
TW4-70	Chloromethane	1	ug/L	U	1	1	OK
TW4-70	Methylene chloride	1	ug/L	U	1	1	OK
TW4-70	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-75	Chloride	1	mg/L		10	1	OK
TW4-75	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-75	Chloroform	1	ug/L		1	1	OK
TW4-75	Chloromethane	1	ug/L	U	1	1	OK
TW4-75	Methylene chloride	1	ug/L	U	1	1	OK
TW4-75	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-6 Trip Blank Evaluation

Lab Report	Constituent	Result	
1906140	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1906386	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1906517	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	TW4-03	TW4-65	%RPD
Chloride (mg/L)	27.4	25.90	5.6
Nitrate + Nitrite (as N)	6.68	6.60	1.2
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-38	TW4-70	%RPD
Chloride (mg/L)	33.7	35.3	4.6
Nitrate + Nitrite (as N)	8.53	9.52	11.0
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-18	TW4-75	%RPD
Chloride (mg/L)	39.5	40.8	3.2
Nitrate + Nitrite (as N)	4.01	2.95	30.5
Carbon Tetrachloride	ND	ND	NC
Chloroform	54.2	54.4	0.4
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 Blank (MB) for the quarter were nondetect.

Matrix Spike % Recovery Comparison
All Matrix Spike % Recoveries for the quarter were within acceptance limits.

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

Surrogate % Recovery
All Surrogate recoveries were within acceptance limits for the quarter.

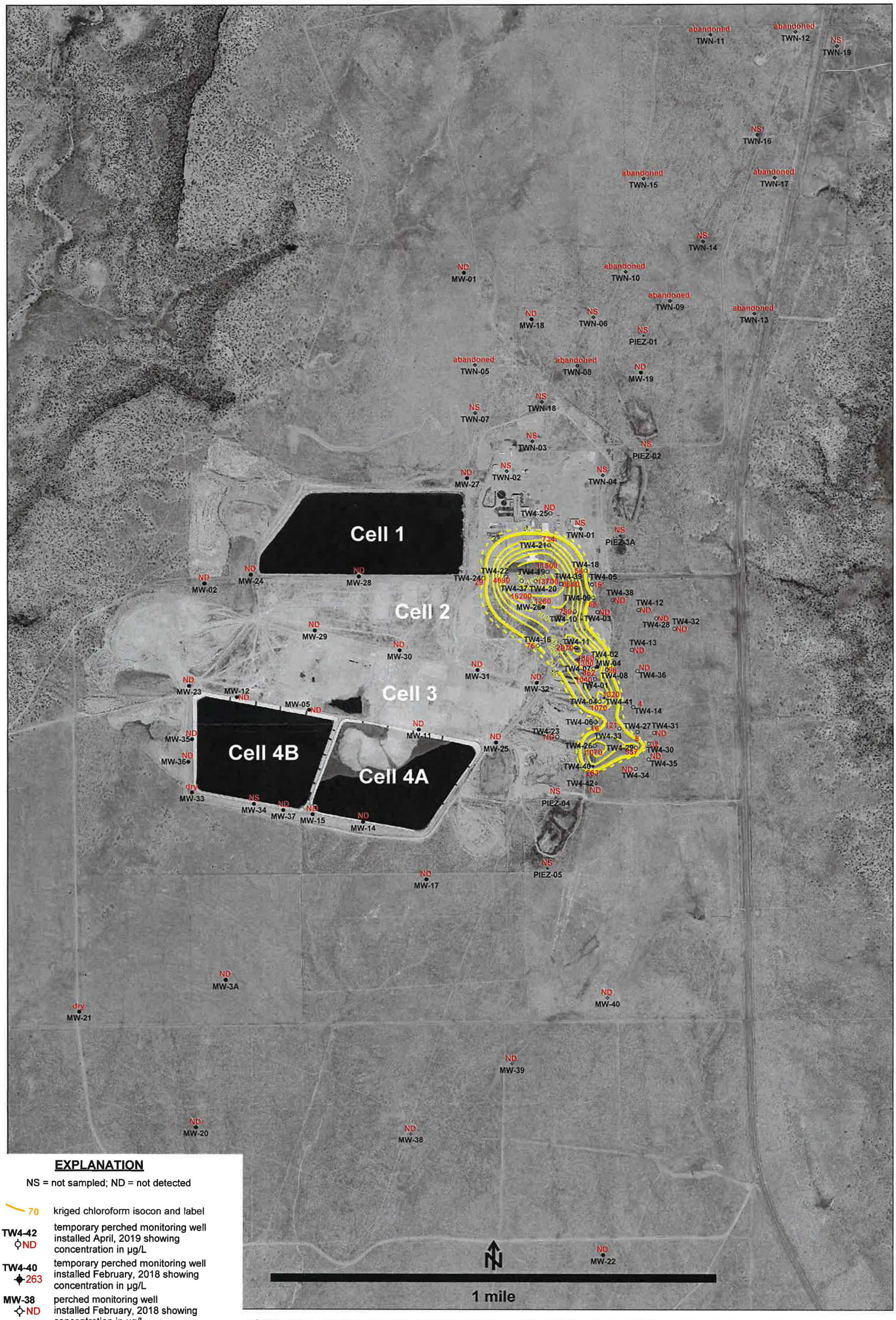
I-9 Rinsate Evaluation

Rinsate Sample	Parameter	Result (ug/L)	Previous Well Sampled
TW4-03R	Chloroform	16.5	NA
TW4-18R	Chloroform	ND	NA

NA = This rinsate sample was collected prior to the first use of the pump.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



EXPLANATION

NS = not sampled; ND = not detected

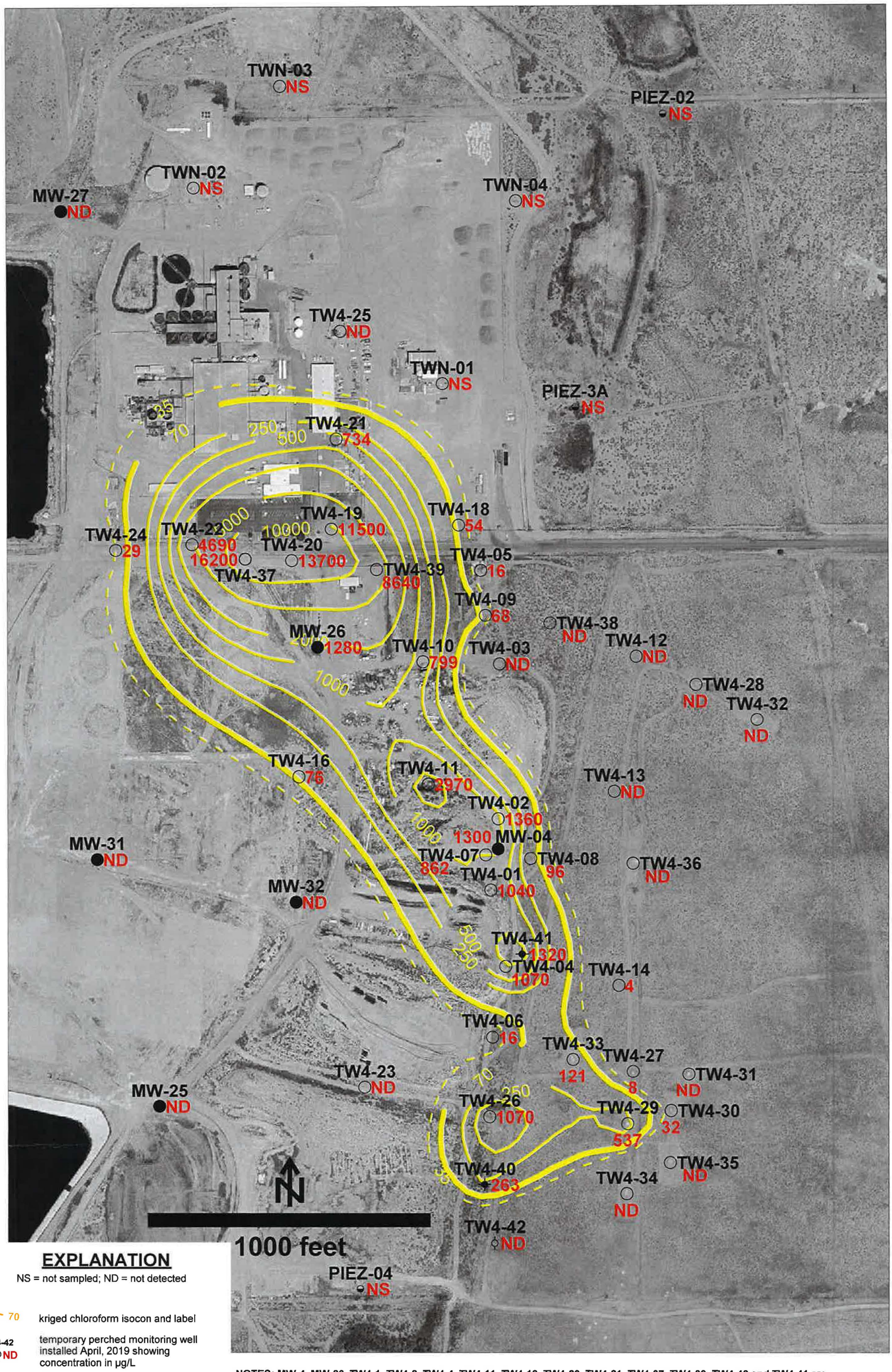
70	kriged chloroform isocon and label
TW4-42 ND	temporary perched monitoring well installed April, 2019 showing concentration in µg/L
TW4-40 263	temporary perched monitoring well installed February, 2018 showing concentration in µg/L
MW-38 ND	perched monitoring well installed February, 2018 showing concentration in µg/L
MW-32 ND	perched monitoring well showing concentration in µg/L
TW4-7 862	temporary perched monitoring well showing concentration in µg/L
TWN-1 NS	temporary perched nitrate monitoring well (not sampled)
PIEZ-1 NS	perched piezometer (not sampled)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2019 CHLOROFORM (µg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/chloroform/Uchl0619.srf	J-1



EXPLANATION

NS = not sampled; ND = not detected

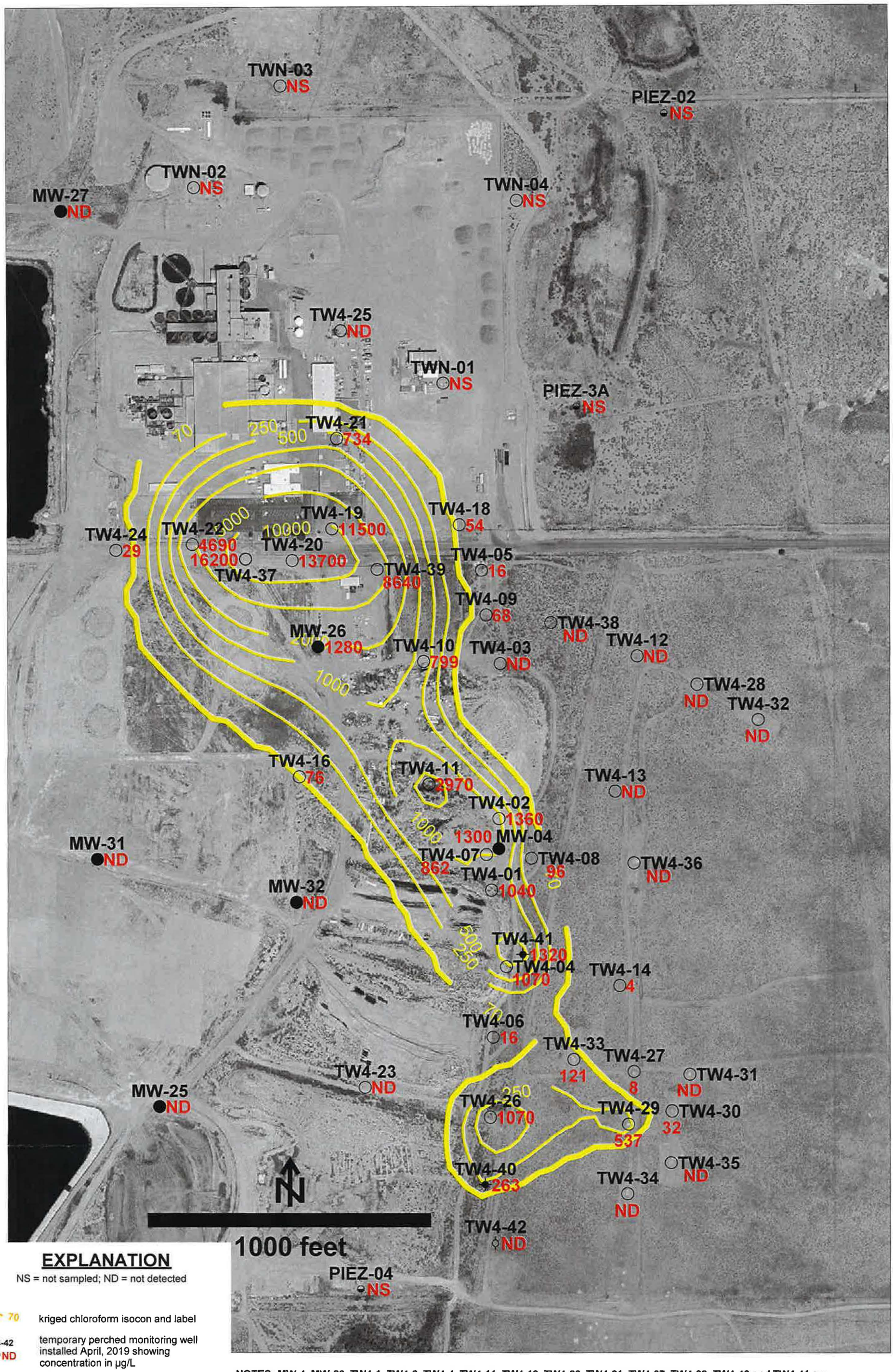
70	kriged chloroform isocon and label
TW4-42 ND	temporary perched monitoring well installed April, 2019 showing concentration in µg/L
TW4-40 263	temporary perched monitoring well installed February, 2018 showing concentration in µg/L
MW-32 ND	perched monitoring well showing concentration (µg/L)
TW4-7 862	temporary perched monitoring well showing concentration (µg/L)
PIEZ-2 NS	perched piezometer (not sampled)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2019 CHLOROFORM (µg/L) WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/chloroform/Uchl0619det.srf	J-2



EXPLANATION

NS = not sampled; ND = not detected

70	kriged chloroform isocon and label
TW4-42 ND	temporary perched monitoring well installed April, 2019 showing concentration in µg/L
TW4-40 263	temporary perched monitoring well installed February, 2018 showing concentration in µg/L
MW-32 ND	perched monitoring well showing concentration (µg/L)
TW4-7 862	temporary perched monitoring well showing concentration (µg/L)
PIEZ-2 NS	perched piezometer (not sampled)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

2nd QUARTER, 2019 CHLOROFORM GREATER THAN OR EQUAL TO 70 µg/L GRID WHITE MESA SITE

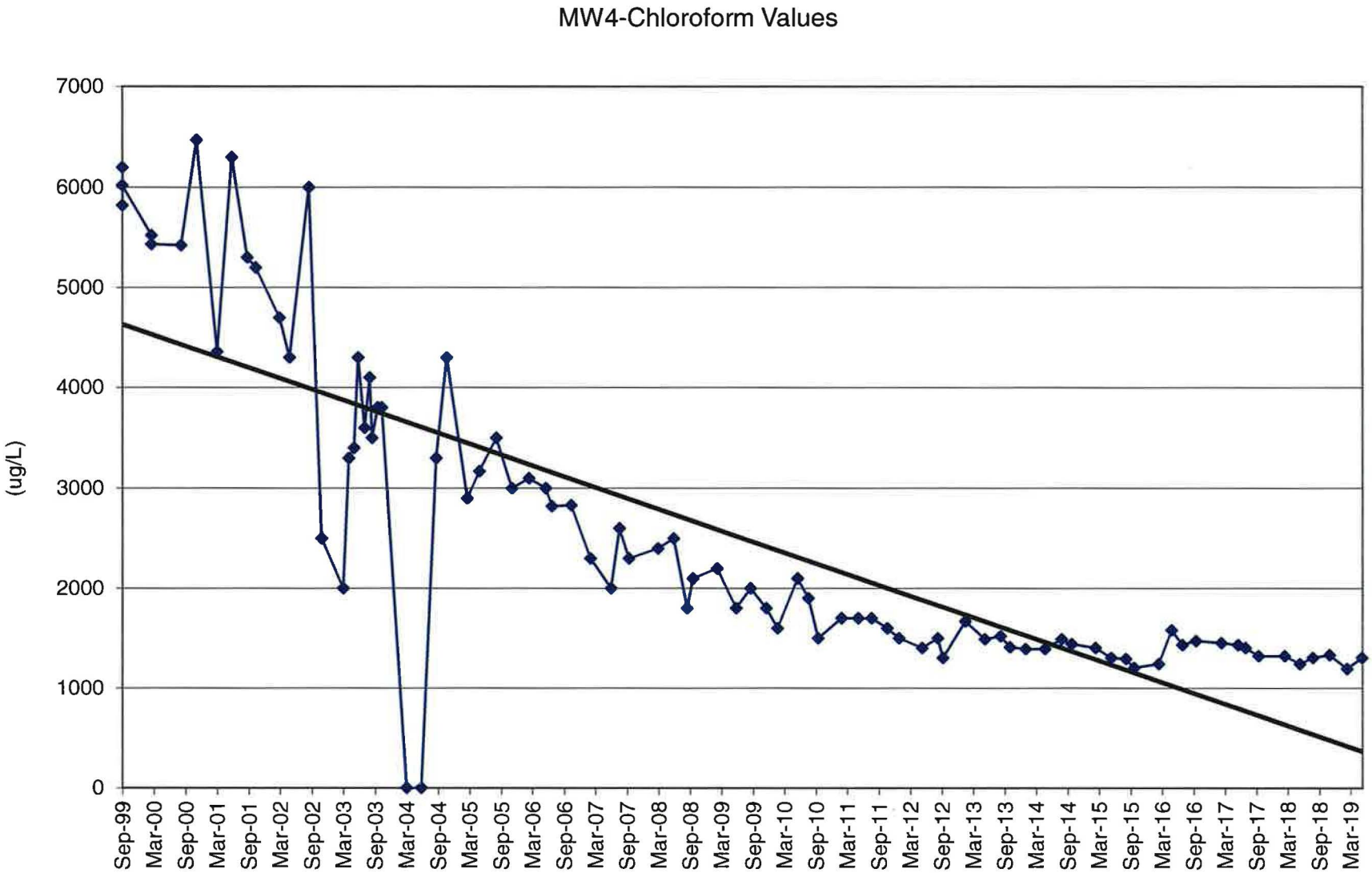
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug19/chloroform/Uchl0619GE70.srf	J-3

Tab K

Analyte Concentration Data and Chloroform Concentration Trend Graphs over Time

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Sep-99	6200					
28-Sep-99	5820					
28-Sep-99	6020					
15-Mar-00	5520					
15-Mar-00	5430					
2-Sep-00	5420				9.63	
30-Nov-00	6470				9.37	
29-Mar-01	4360				8.77	
22-Jun-01	6300				9.02	
20-Sep-01	5300				9.45	
8-Nov-01	5200				8	
26-Mar-02	4700				8.19	
22-May-02	4300				8.21	
12-Sep-02	6000				8.45	
24-Nov-02	2500				8.1	
28-Mar-03	2000				8.3	
30-Apr-03	3300				NA	
30-May-03	3400				8.2	
23-Jun-03	4300				8.2	
30-Jul-03	3600				8.1	
29-Aug-03	4100				8.4	
12-Sep-03	3500				8.5	
15-Oct-03	3800				8.1	
8-Nov-03	3800				8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	3300				6.71	
17-Nov-04	4300				7.5	
16-Mar-05	2900				6.3	
25-May-05	3170	NA	NA	NA	7.1	NA
31-Aug-05	3500	<10	<10	<10	7.0	NA
1-Dec-05	3000	<50	<50	<50	7.0	NA
9-Mar-06	3100	<50	<50	50	6	49
14-Jun-06	3000	<50	<50	50	6	49
20-Jul-06	2820	<50	<50	<50	1.2	48
9-Nov-06	2830	2.1	1.4	<1	6.4	50
28-Feb-07	2300	1.6	<1	<1	6.3	47
27-Jun-07	2000	1.8	<1	<1	7	45
15-Aug-07	2600	1.9	<1	<1	6.2	47
10-Oct-07	2300	1.7	<1	<1	6.2	45
26-Mar-08	2400	1.7	<1	<1	5.8	42
25-Jun-08	2500	1.6	<1	<1	6.09	42
10-Sep-08	1800	1.8	<1	<1	6.36	35
15-Oct-08	2100	1.7	<1	<1	5.86	45
4-Mar-09	2200	1.5	<1	<1	5.7	37
23-Jun-09	1800	1.3	<1	<1	5.2	34
14-Sep-09	2000	1.4	<1	<1	5.3	43

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Dec-09	1800	1.6	ND	ND	5.8	44
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
23-May-16	1580	1.44	ND	ND	4.54	43.7
25-Jul-16	1430	ND	ND	ND	4.95	42.5
12-Oct-16	1470	1.24	ND	ND	4.88	44.8
8-Mar-17	1450	1.22	ND	ND	4.99	43.3
13-Jun-17	1430	1.15	ND	ND	4.88	44.0
26-Jul-17	1400	1.15	ND	ND	4.59	43.8
11-Oct-17	1320	ND	ND	ND	5.25	43.8
12-Mar-18	1320	1.07	ND	ND	4.47	46.2
8-Jun-18	1240	ND	ND	ND	4.64	43.5
22-Aug-18	1300	ND	ND	ND	4.55	48.5
28-Nov-18	1330	ND	ND	ND	4.44	43.1
8-Mar-19	1190	ND	ND	ND	5.05	41.5
5-Jun-19	1300	ND	ND	ND	5.16	40.6


MW4-Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
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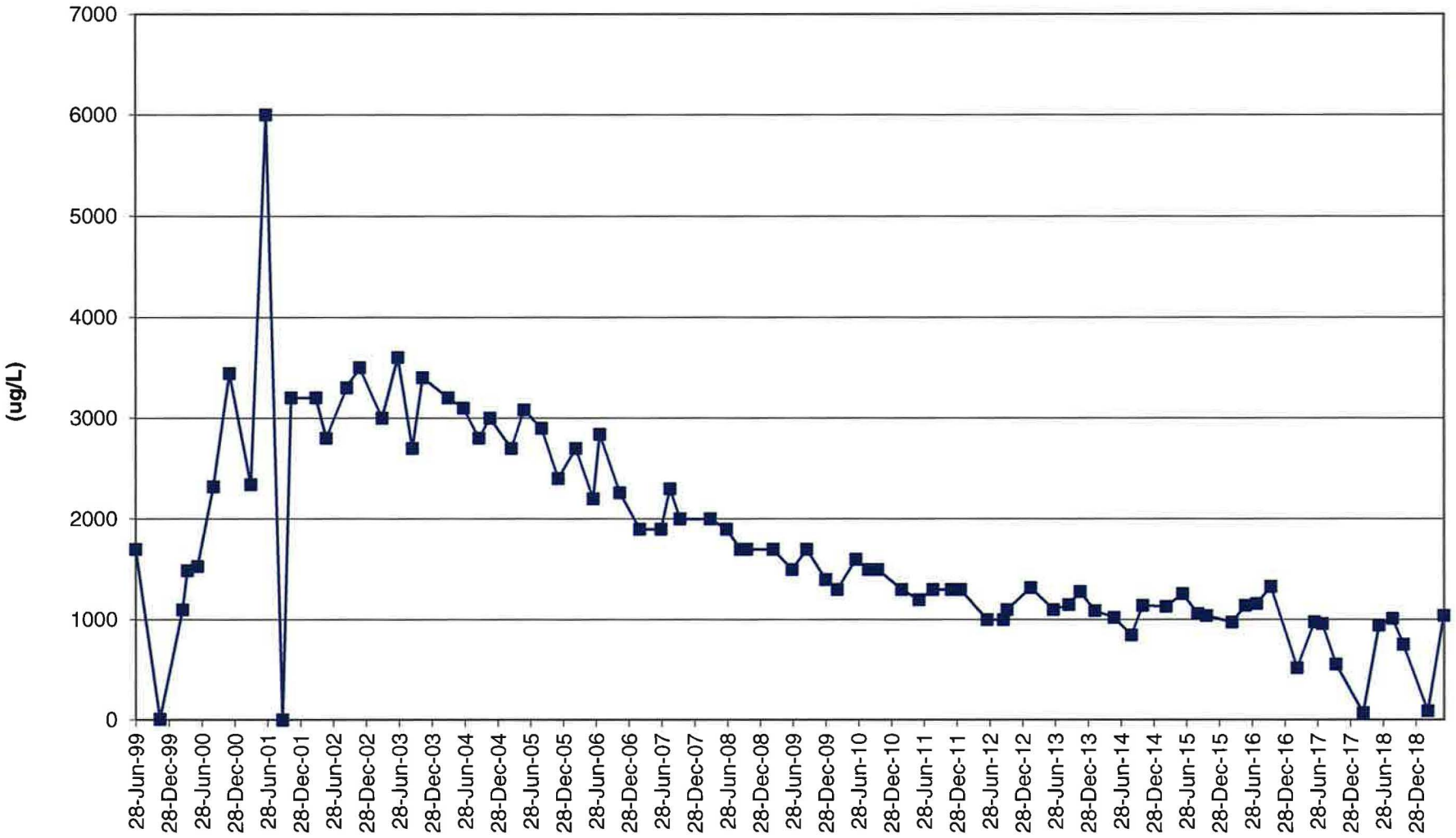
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19

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

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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
23-May-16	1140	ND	ND	ND	0.138	44.4
25-Jul-16	1160	ND	ND	ND	5.49	44.7
13-Oct-16	1330	ND	ND	ND	0.746	44.2
8-Mar-17	519	ND	ND	ND	4.44	41.5
13-Jun-17	977	ND	ND	ND	5.74	41.8
26-Jul-17	958	ND	ND	ND	5.04	42.8
11-Oct-17	556	ND	ND	ND	5.78	38.5
12-Mar-18	70.4	ND	ND	ND	4.84	45.8
8-Jun-18	942	ND	ND	ND	4.38	42.0
22-Aug-18	1010	ND	ND	ND	4.30	47.3

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
22-Oct-18	752	ND	ND	ND	4.57	43.2
8-Mar-19	87.2	ND	ND	ND	4.51	40.9
5-Jun-19	1040	ND	ND	ND	1.43	44.8

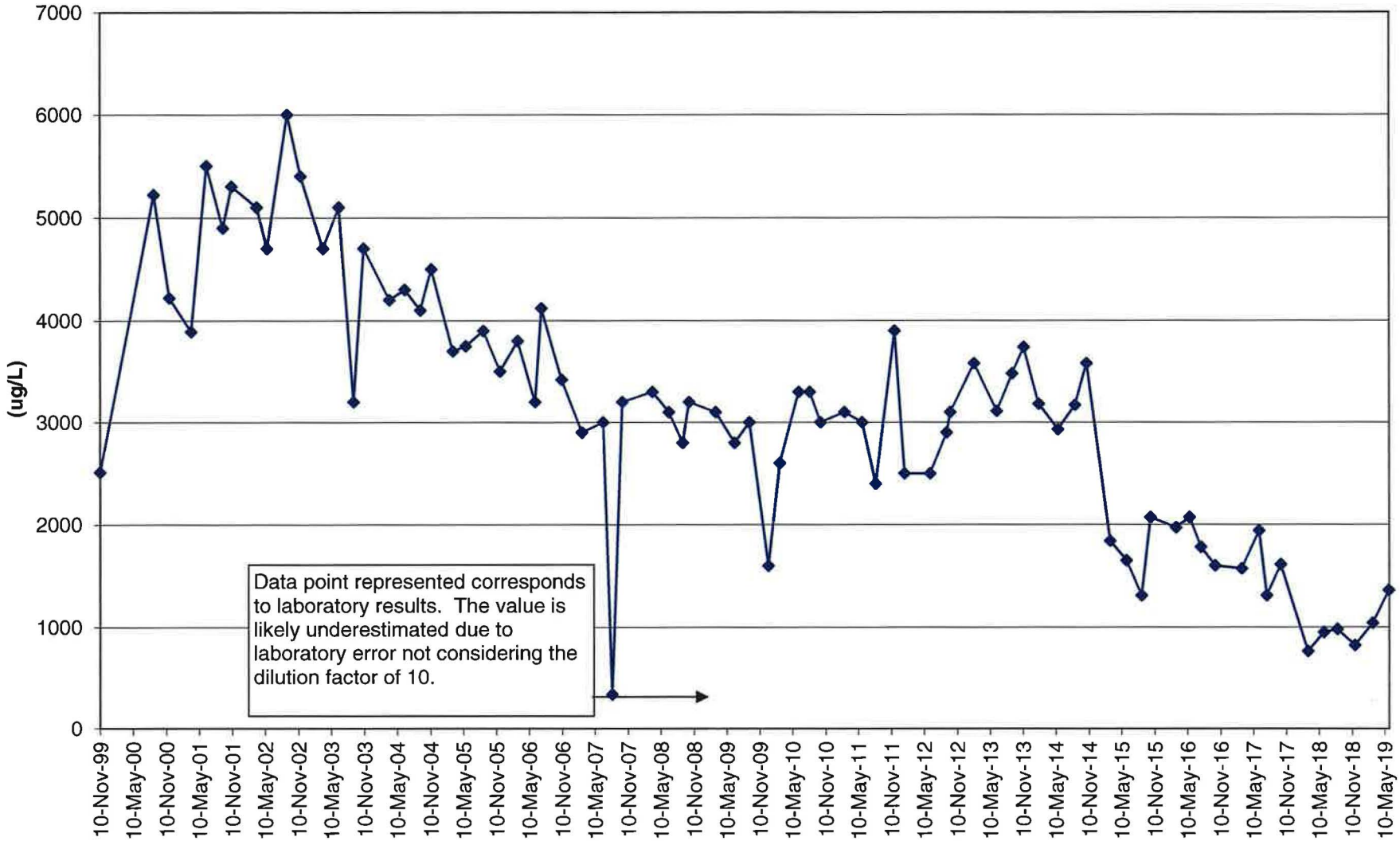
TW4-1 Chloroform Values



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

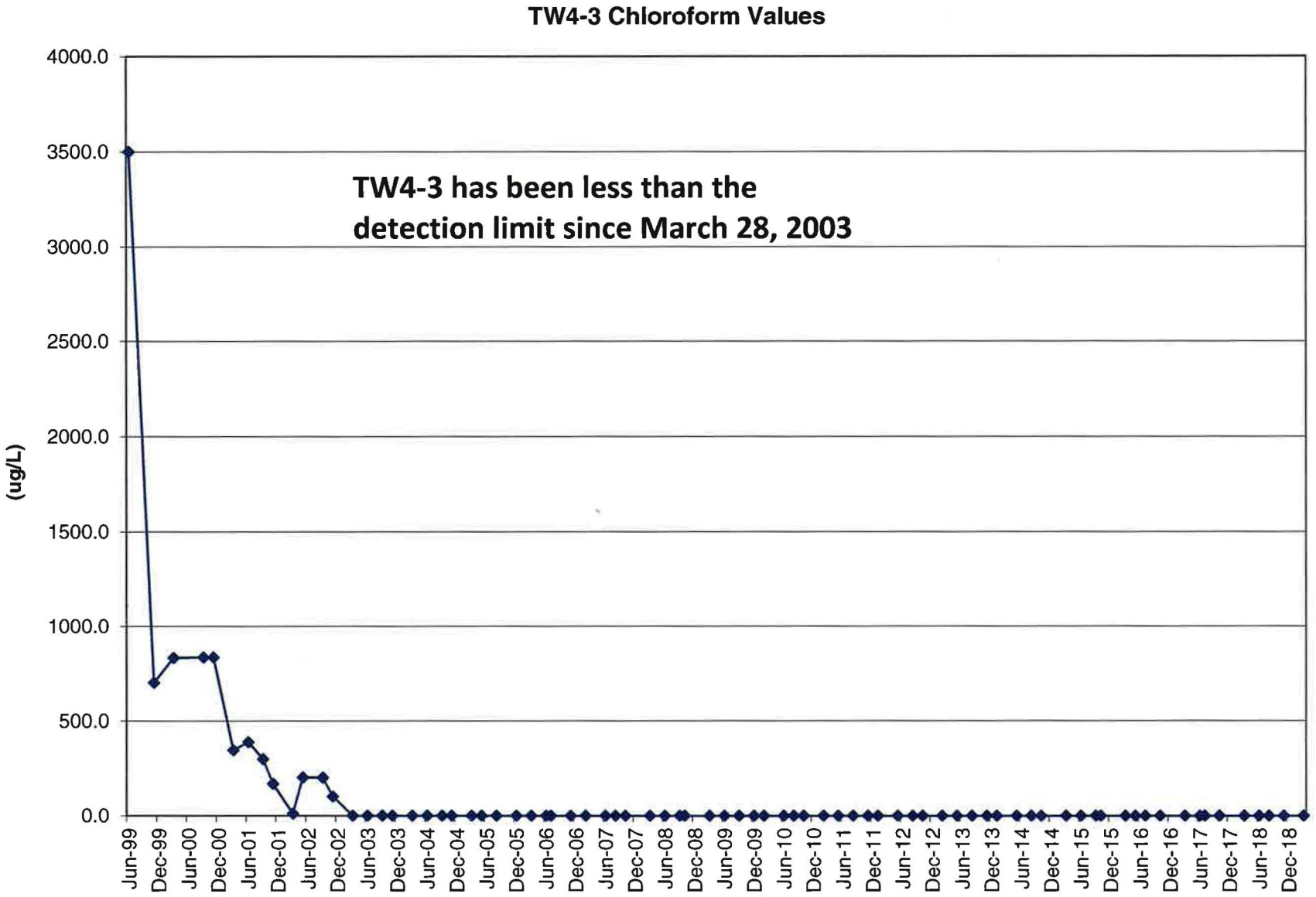
TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
3-Mar-10	2600	2	<1	<1	6.8	42
15-Jun-10	3300	2.6	<1	<1	6.7	43
16-Aug-10	3300	2.5	<1	<1	6.6	43
14-Oct-10	3000	2.1	<1	<1	6.5	41
24-Feb-11	3100	2.4	ND	ND	7	46
2-Jun-11	3000	2.2	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
23-May-16	2070	1.49	ND	ND	5.67	43.8
25-Jul-16	1780	ND	ND	ND	4.07	42.9
12-Oct-16	1600	ND	ND	ND	6.07	44.3
8-Mar-17	1570	ND	ND	ND	4.74	43.1
13-Jun-17	1940	ND	ND	ND	4.90	43.6
26-Jul-17	1310	ND	ND	ND	5.08	43.2
11-Oct-17	1610	ND	ND	ND	3.28	43.5
12-Mar-18	764	ND	ND	ND	2.94	44.4
8-Jun-18	949	ND	ND	ND	3.50	41.3
22-Aug-18	980	ND	ND	ND	4.83	44.3
28-Nov-18	822	ND	ND	ND	3.52	41.7
8-Mar-19	1040	ND	ND	ND	3.92	40.4
5-Jun-19	1360	ND	ND	ND	4.38	39.8

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

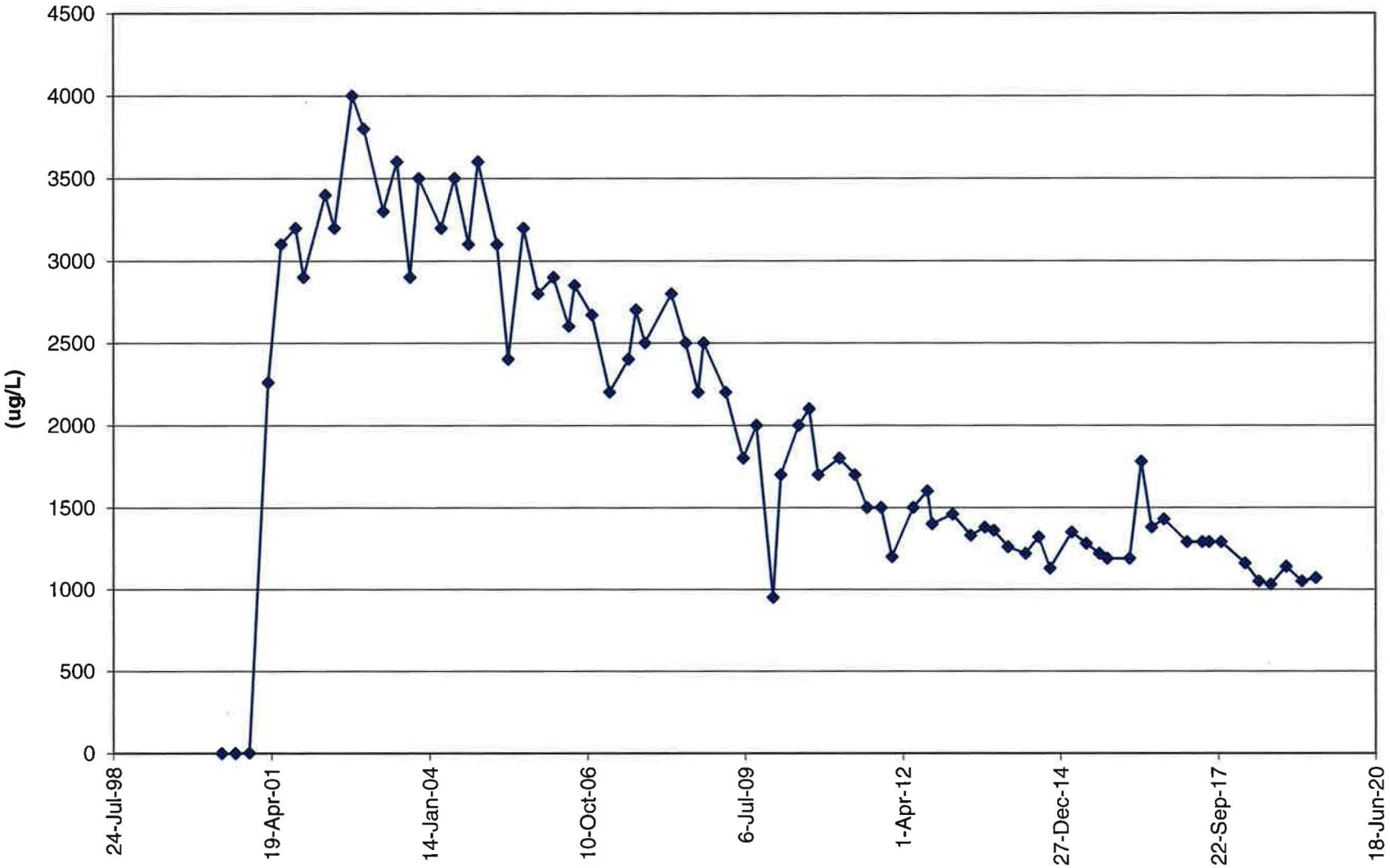
TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Jun-10	<1	<1	<1	<1	3	24
10-Aug-10	<1	<1	<1	<1	3.1	22
5-Oct-10	<1	<1	<1	<1	3.3	26
15-Feb-11	ND	ND	ND	ND	3.5	23
25-May-11	ND	ND	ND	ND	3.7	23
16-Aug-11	ND	ND	ND	ND	4	23
15-Nov-11	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
25-May-16	ND	ND	ND	ND	5.65	27.9
27-Jul-16	ND	ND	ND	ND	6.10	26.5
19-Oct-16	ND	ND	ND	ND	6.00	29.5
14-Mar-17	ND	ND	ND	ND	6.18	28.1
14-Jun-17	ND	ND	ND	ND	6.36	28.7
27-Jul-17	ND	ND	ND	ND	6.36	28.5
10-Oct-17	ND	ND	ND	ND	6.32	25.9
14-Mar-18	ND	ND	ND	ND	6.46	29.8
12-Jun-18	ND	ND	ND	ND	6.52	26.1
29-Aug-18	ND	ND	ND	ND	5.53	31.0
30-Nov-18	ND	ND	ND	ND	5.85	27.4
13-Mar-19	ND	ND	ND	ND	5.82	25.5
13-Jun-19	ND	ND	ND	ND	6.68	27.4


TW4-3 Chloroform Values
TW4-3 has been less than the detection limit since March 28, 2003
(ug/L)
4000.0
3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
Dec-14
Jun-15
Dec-15
Jun-16
Dec-16
Jun-17
Dec-17
Jun-18
Dec-18

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

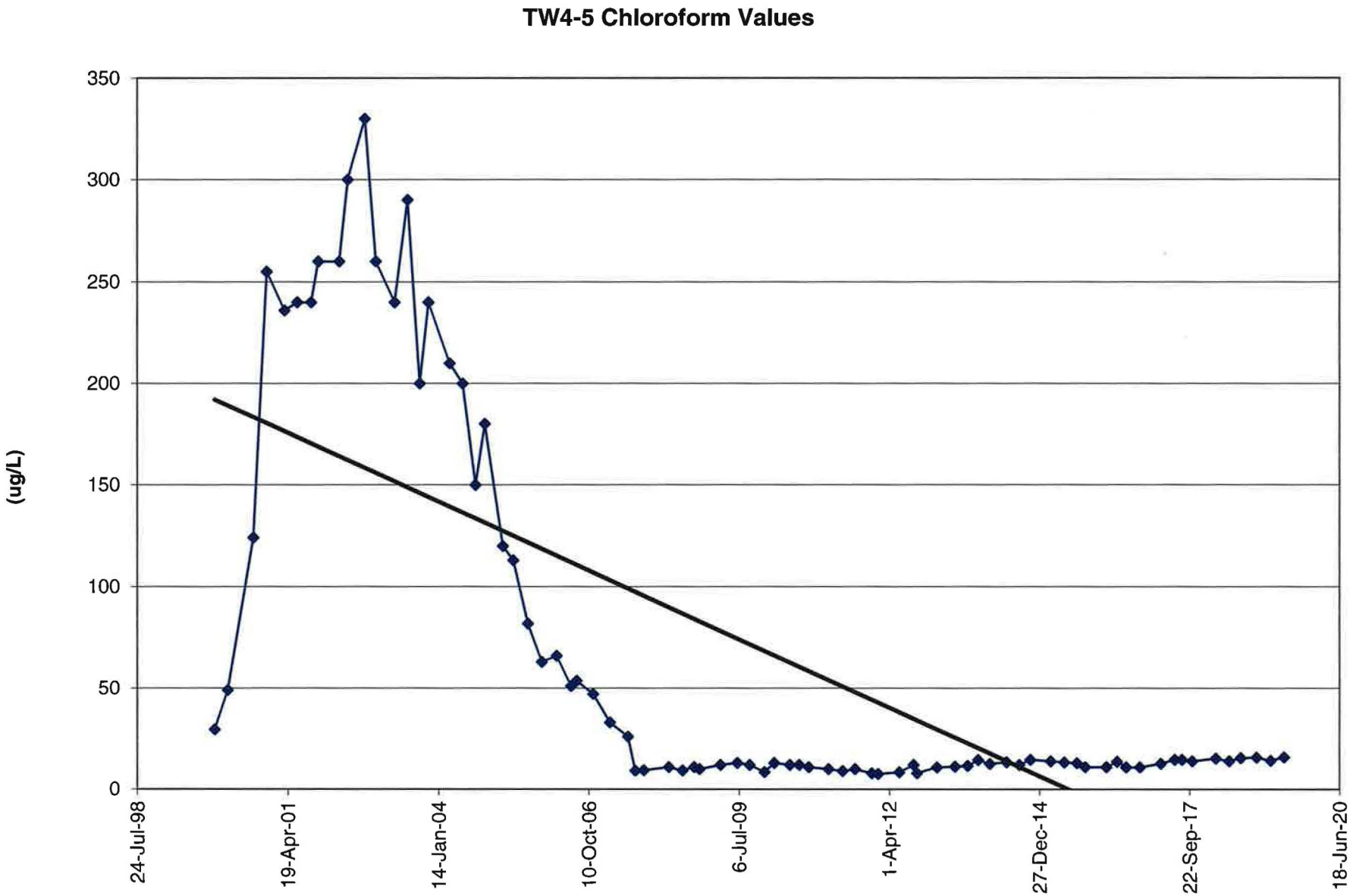
TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Feb-10	1700	1	<1	<1	6.6	48
10-Jun-10	2000	1.2	<1	<1	7.6	35
16-Aug-10	2100	1.3	<1	<1	7.3	36
11-Oct-10	1700	1.3	<1	<1	7.1	38
23-Feb-11	1800	1.4	ND	ND	7	41
1-Jun-11	1700	1.2	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
23-May-16	1780	1	ND	ND	6.56	41.9
26-Jul-16	1380	ND	ND	ND	7.22	40.2
13-Oct-16	1430	ND	ND	ND	6.77	42.3
8-Mar-17	1290	ND	ND	ND	6.87	41.7
13-Jun-17	1290	ND	ND	ND	7.06	40.7
26-Jul-17	1290	ND	ND	ND	6.47	40.5
11-Oct-17	1290	ND	ND	ND	6.90	40.7
12-Mar-18	1160	ND	ND	ND	6.12	42.2
8-Jun-18	1050	ND	ND	ND	6.34	39.0
22-Aug-18	1030	ND	ND	ND	6.34	39.0
28-Nov-18	1140	ND	ND	ND	6.02	41.4
8-Mar-19	1050	ND	ND	ND	7.26	38.3
5-Jun-19	1070	ND	ND	ND	10.40	38.5

TW4-4 Chloroform Values



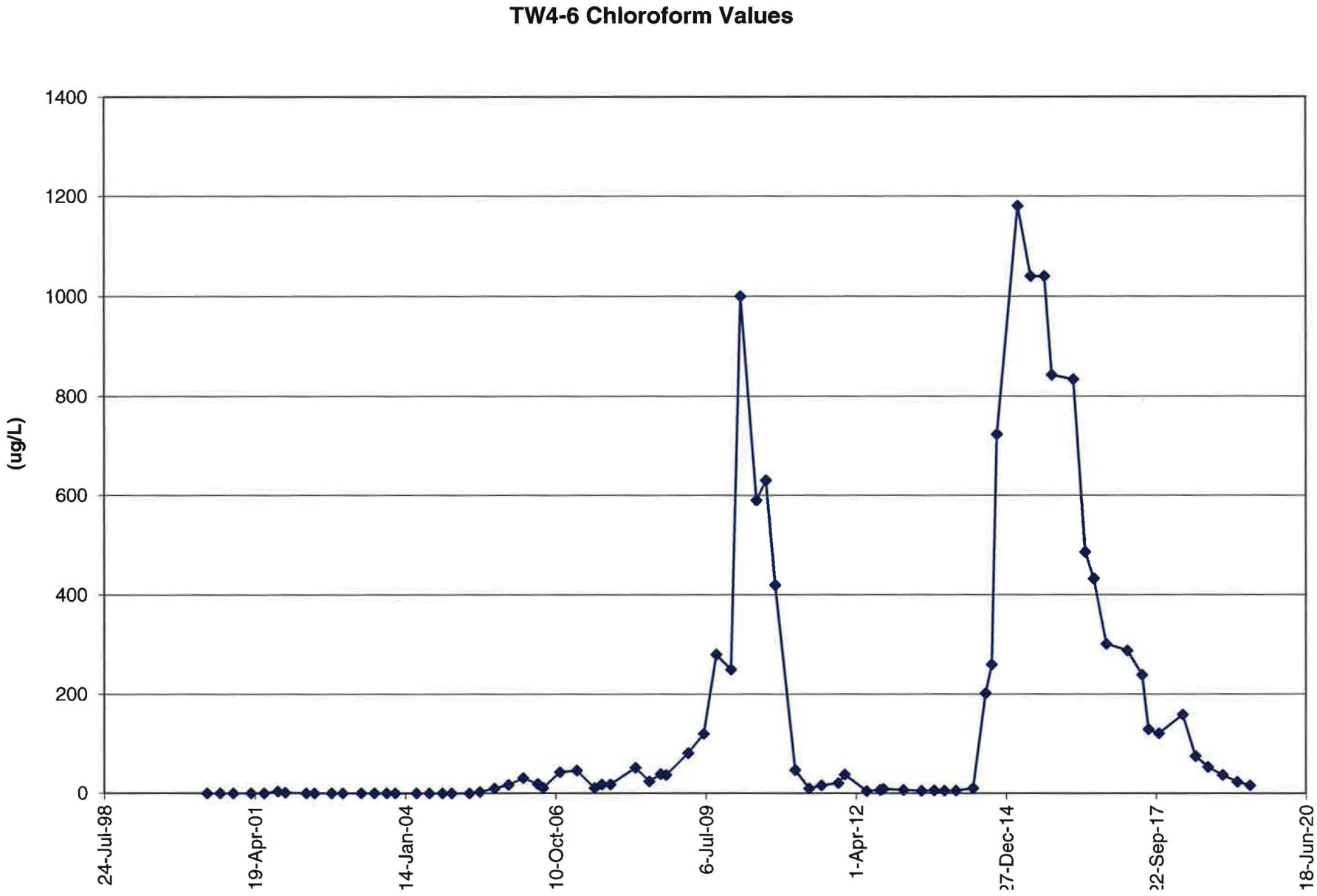
TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	29.5					
15-Mar-00	49.0					
2-Sep-00	124					
29-Nov-00	255					
28-Mar-01	236					
20-Jun-01	240					
20-Sep-01	240					
7-Nov-01	260					
26-Mar-02	260					
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

TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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
26-May-16	13.6	ND	ND	ND	8.98	45.9
25-Jul-16	10.8	ND	ND	ND	8.49	44.6
26-Oct-16	10.8	ND	ND	ND	8.32	47.8
15-Mar-17	12.6	ND	ND	ND	8.49	44.7
15-Jun-17	14.6	ND	ND	ND	8.52	47.3
2-Aug-17	14.6	ND	ND	ND	8.52	48.6
10-Oct-17	13.8	ND	ND	ND	8.57	42.5
15-Mar-18	15.2	ND	ND	ND	8.36	51.2
13-Jun-18	13.9	ND	ND	ND	9.24	47.4
30-Aug-18	15.4	ND	ND	ND	7.34	54.7
12-Dec-18	15.6	ND	ND	ND	7.67	49.8
16-Mar-19	14.1	ND	ND	ND	7.38	47.6
13-Jun-19	15.8	ND	ND	ND	7.62	49.3


TW4-5 Chloroform Values
(ug/L)
350
300
250
200
150
100
50
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

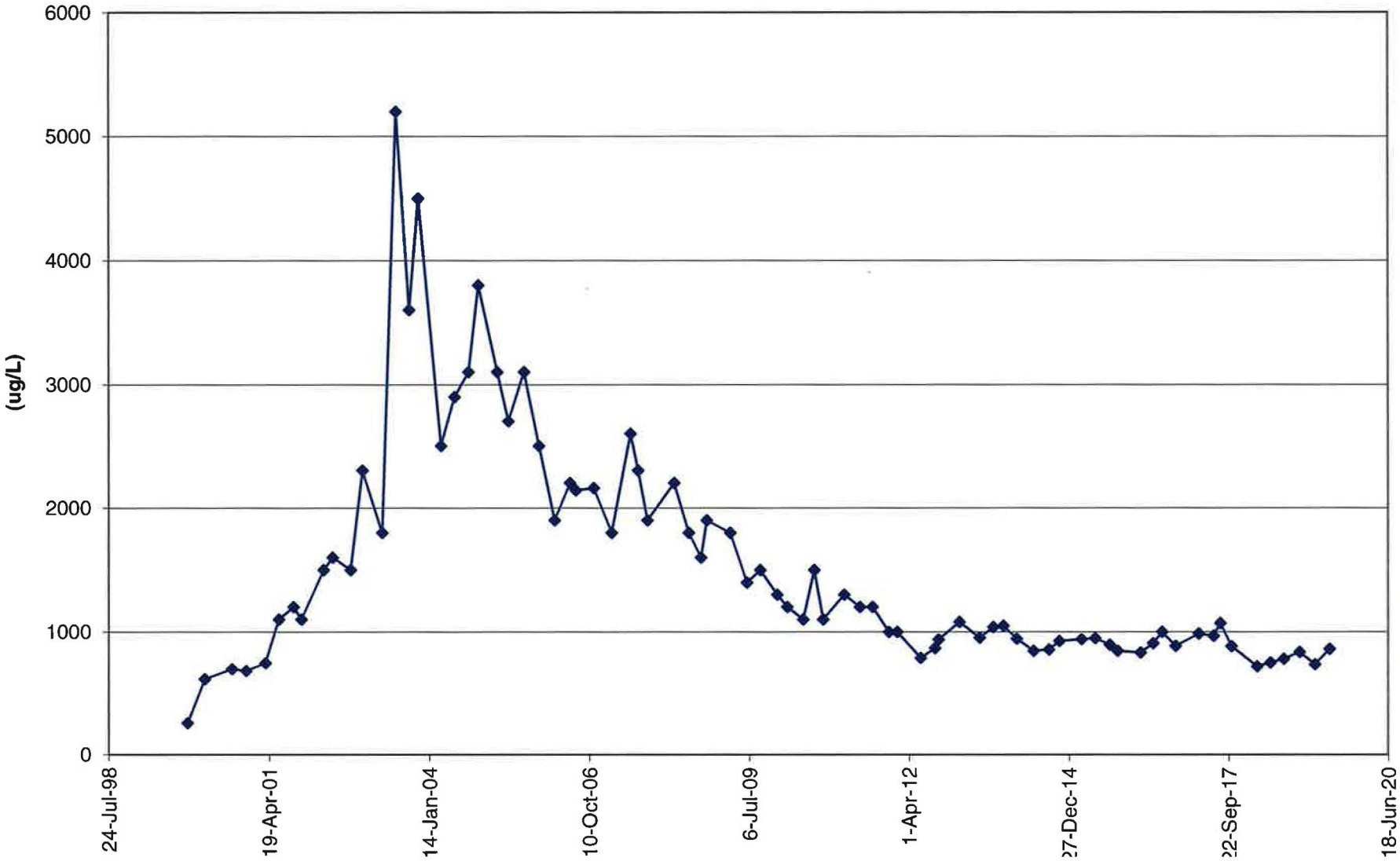
TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
26-May-11	10	ND	ND	ND	0.3	42
17-Aug-11	16	ND	ND	ND	0.3	39
7-Dec-11	21	ND	ND	ND	0.8	36
18-Jan-12	38	ND	ND	ND	0.7	38
13-Jun-12	4.7	ND	ND	ND	0.2	40
11-Sep-12	6.9	ND	ND	ND	0.1	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	ND	ND	ND	4.2	40
24-Sep-14	260	ND	ND	ND	N/A	N/A
29-Oct-14	723	ND	ND	ND	6.92	41.1
18-Mar-15	1180	ND	ND	ND	5.25	41.2
11-Jun-15	1040	ND	ND	ND	5.87	41.6
10-Sep-15	1040	ND	ND	ND	6.75	47.0
29-Oct-15	843	ND	ND	ND	5.61	40.2
22-Mar-16	834	ND	ND	ND	6.79	42.0
8-Jun-16	486	ND	ND	ND	3.19	44.1
4-Aug-16	433	ND	ND	ND	3.85	42.2
26-Oct-16	301	ND	ND	ND	3.74	46.1
16-Mar-17	288	ND	ND	ND	3.15	42.1
21-Jun-17	239	ND	ND	ND	2.42	42.6
3-Aug-17	129	ND	ND	ND	1.71	42.9
11-Oct-17	121	ND	ND	ND	1.71	37.6
20-Mar-18	159	ND	ND	ND	1.96	43.1
14-Jun-18	74.9	ND	ND	ND	1.48	40.2
5-Sep-18	53.2	ND	ND	ND	1.18	44.0
12-Dec-18	37.0	ND	ND	ND	0.900	20.0
19-Mar-19	23.2	ND	ND	ND	0.755	41.0
13-Jun-19	15.8	ND	ND	ND	0.484	38.1


TW4-6 Chloroform Values
(ug/L)
1400
1200
1000
800
600
400
200
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
13-Oct-10	1100	1.1	<1	<1	4	38
23-Feb-11	1300	ND	ND	ND	3.60	45
1-Jun-11	1200	ND	ND	ND	4.00	35
18-Aug-11	1200	ND	ND	ND	4.10	37
29-Nov-11	1000	ND	ND	ND	3.80	37
19-Jan-12	1000	ND	ND	ND	3.90	37
14-Jun-12	790	ND	ND	ND	4.00	41
13-Sep-12	870	ND	ND	ND	3.80	40
4-Oct-12	940	ND	ND	ND	3.80	41
13-Feb-13	1080	3.51	ND	ND	3.90	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	2.90	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
8-Jun-16	909	ND	ND	ND	3.75	44.1
4-Aug-16	1000	ND	ND	ND	4.21	42.3
27-Oct-16	886	ND	ND	ND	4.33	45.8
21-Mar-17	986	ND	ND	ND	3.87	40.5
21-Jun-17	968	ND	ND	ND	4.15	43.3
4-Aug-17	1070	ND	ND	ND	4.20	44.7
11-Oct-17	884	ND	ND	ND	4.35	43.7
21-Mar-18	721	ND	ND	ND	3.96	44.5
14-Jun-18	751	ND	ND	ND	4.45	41.5
5-Sep-18	781	ND	ND	ND	4.34	48.5
13-Dec-18	838	ND	ND	ND	3.98	42.8
20-Mar-19	736	ND	ND	ND	4.01	41.3
19-Jun-19	862	ND	ND	ND	4.19	43.0

TW4-7 Chloroform Values

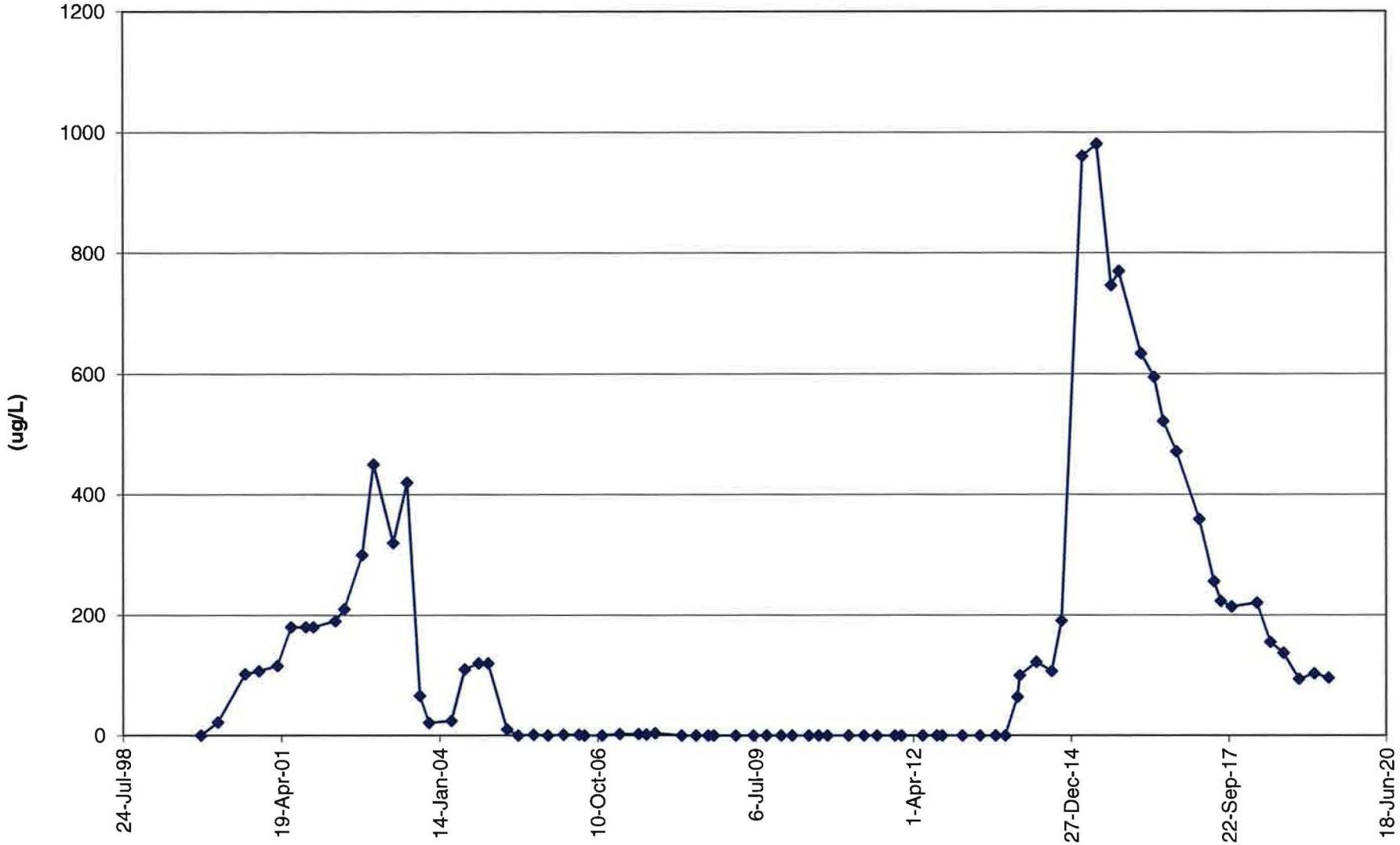


TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	0					
15-Mar-00	21.8					
2-Sep-00	102					
29-Nov-00	107				ND	
26-Mar-01	116				ND	
20-Jun-01	180				ND	
20-Sep-01	180				0.35	
7-Nov-01	180				ND	
26-Mar-02	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

TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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	2.20	52.0
17-Mar-16	634	ND	ND	ND	2.48	54.2
8-Jun-16	595	ND	ND	ND	2.14	58.7
4-Aug-16	522	ND	ND	ND	2.10	56.9
27-Oct-16	472	ND	ND	ND	2.16	60.1
21-Mar-17	359	ND	ND	ND	2.06	57.4
21-Jun-17	256	ND	ND	ND	1.97	58.8
4-Aug-17	223	ND	ND	ND	1.64	61.2
11-Oct-17	214	ND	ND	ND	1.97	52.2
21-Mar-18	220	ND	ND	ND	1.36	60.8
14-Jun-18	155	ND	ND	ND	1.31	53.8
5-Sep-18	137	ND	ND	ND	1.40	63.2
13-Dec-18	93.8	ND	ND	ND	0.123	65.8
19-Mar-19	103	ND	ND	ND	1.23	54.3

TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-19	96.0	ND	ND	ND	1.10	56.5

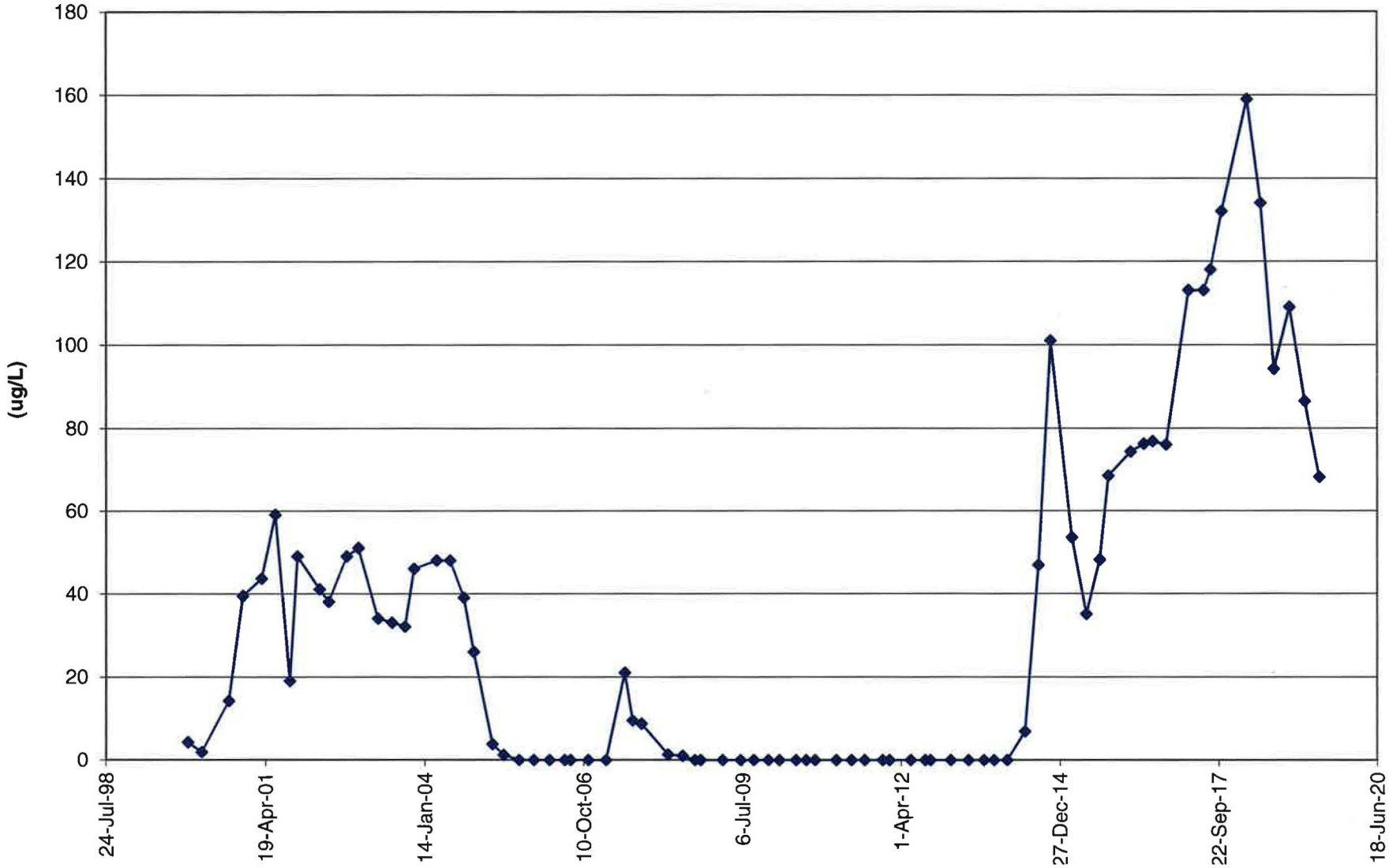
TW4-8 Chloroform Values



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

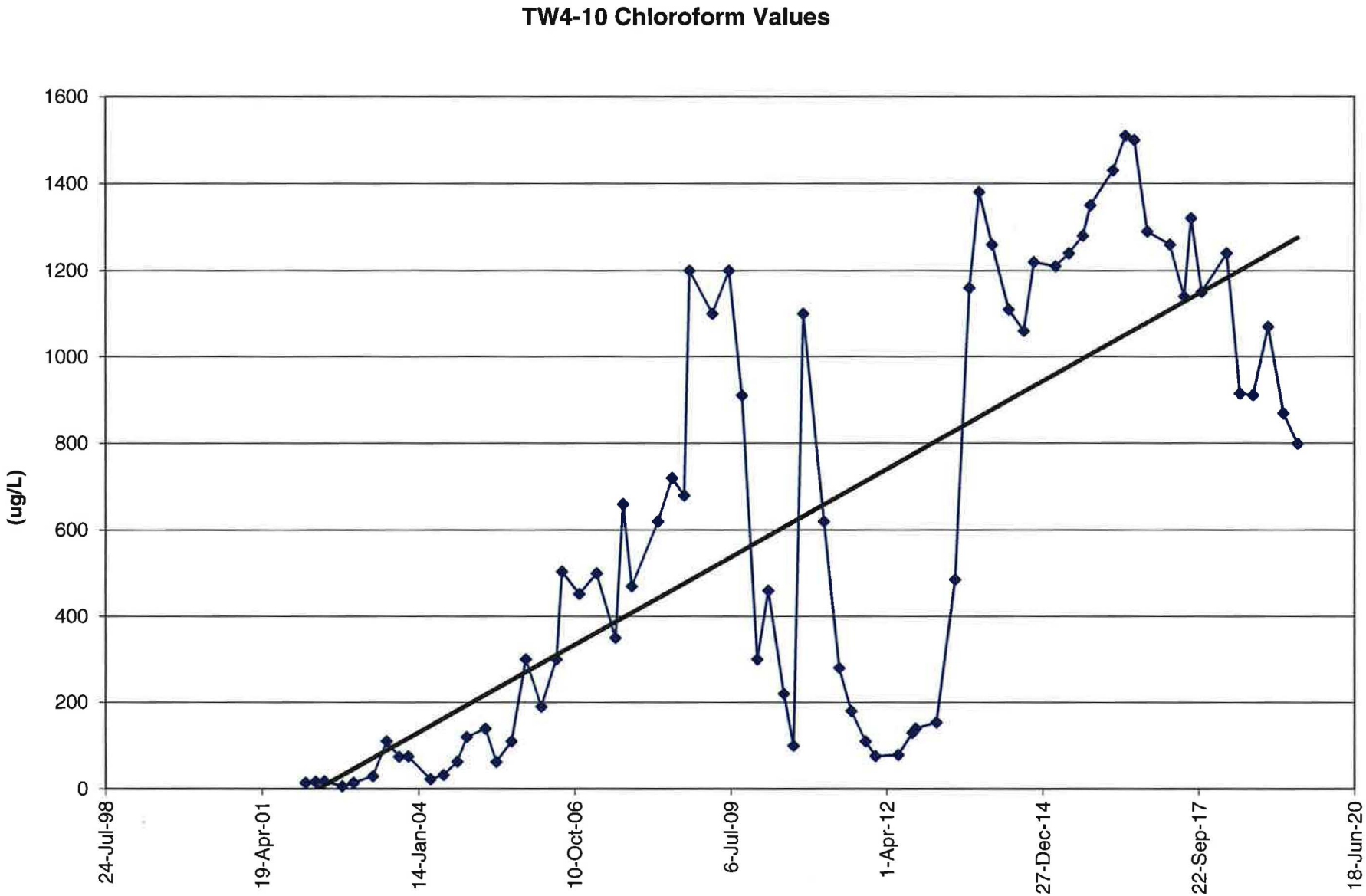
TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
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
8-Jun-16	76.2	ND	ND	ND	2.16	35.1
3-Aug-16	76.8	ND	ND	ND	2.11	33.6
26-Oct-16	76	ND	ND	ND	2.24	37.4
16-Mar-17	113	ND	ND	ND	2.18	34.5
21-Jun-17	113	ND	ND	ND	1.92	35.9
3-Aug-17	118	ND	ND	ND	1.90	37.0
11-Oct-17	132	ND	ND	ND	2.18	32.3
21-Mar-18	159	ND	ND	ND	1.85	38.3
14-Jun-18	134	ND	ND	ND	1.85	35.7
5-Sep-18	94.2	ND	ND	ND	1.04	43.4
13-Dec-18	109	ND	ND	ND	1.23	36.3
19-Mar-19	86.4	ND	ND	ND	1.09	36.9
19-Jun-19	68.1	ND	ND	ND	0.785	38.3

TW4-9 Chloroform Values



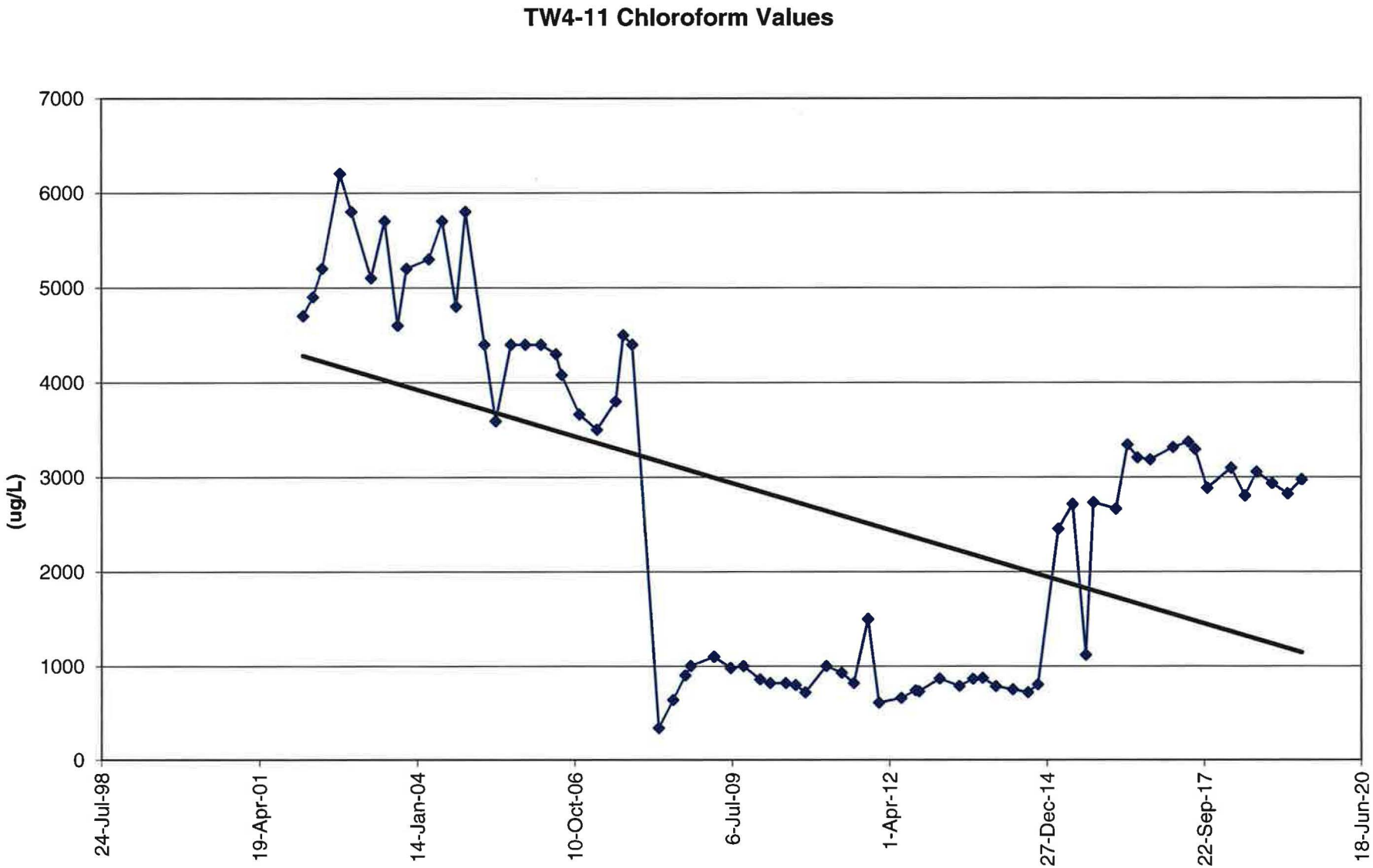
TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	14					
26-Mar-02	16				0.14	
21-May-02	17				0.11	
12-Sep-02	6				ND	
24-Nov-02	14				ND	
28-Mar-03	29				0.2	
23-Jun-03	110				0.4	
12-Sep-03	74				0.4	
8-Nov-03	75				0.3	
29-Mar-04	22				0.1	
22-Jun-04	32				ND	
17-Sep-04	63				0.46	
17-Nov-04	120				0.4	
16-Mar-05	140				1.6	
25-May-05	62.4	NA	NA	NA	0.8	NA
31-Aug-05	110	<2.5	6.2	<2.5	1.1	NA
1-Dec-05	300	<2.5	<2.5	<2.5	3.3	NA
9-Mar-06	190	<5	<50	<50	2.4	50
14-Jun-06	300	<5	<50	<50	3.5	54
20-Jul-06	504	<5	<50	<50	6.8	61
8-Nov-06	452	<1	1.6	1	5.7	58
28-Feb-07	500	<1	<1	1	7.6	62
27-Jun-07	350	<1	<1	1	5.1	54
15-Aug-07	660	<1	<1	1	7.3	59
10-Oct-07	470	<1	<1	1	6.7	59
26-Mar-08	620	<1	<1	1	7.3	55
25-Jun-08	720	<1	<1	1	9.91	58
10-Sep-08	680	<1	<1	1	9.23	51
15-Oct-08	1200	<2	<2	2	10.5	61
11-Mar-09	1100	<1	<1	1	11.6	64
24-Jun-09	1200	<1	<1	1	9.8	62
15-Sep-09	910	<1	<1	1	8.1	51
22-Dec-09	300	<1	<1	<1	3.5	51
3-Mar-10	460	<1	<1	<1	5	49
10-Jun-10	220	<1	<1	<1	1.6	42
12-Aug-10	100	<1	<1	<1	0.8	38
13-Oct-10	1100	<1	<1	<1	11	52
23-Feb-11	620	ND	ND	ND	9	62
1-Jun-11	280	ND	ND	ND	3.3	42

TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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
8-Jun-16	1510	ND	ND	ND	14.9	89.5
4-Aug-16	1500	ND	ND	ND	14.9	85.3
27-Oct-16	1290	ND	ND	ND	14.8	84.4
21-Mar-17	1260	ND	ND	ND	13.0	74.6
21-Jun-17	1140	ND	ND	ND	13.0	73.1
4-Aug-17	1320	ND	ND	ND	13.4	77.0
11-Oct-17	1150	ND	ND	ND	12.9	70.0
21-Mar-18	1240	ND	ND	ND	11.1	72.7
14-Jun-18	914	ND	ND	ND	11.2	64.5
5-Sep-18	911	ND	ND	ND	10.1	73.5
13-Dec-18	1070	ND	ND	ND	10.6	63.5
20-Mar-19	869	ND	ND	ND	9.34	59.3
19-Jun-19	799	ND	ND	ND	8.86	58.7


TW4-10 Chloroform Values
(ug/L)
1600
1400
1200
1000
800
600
400
200
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

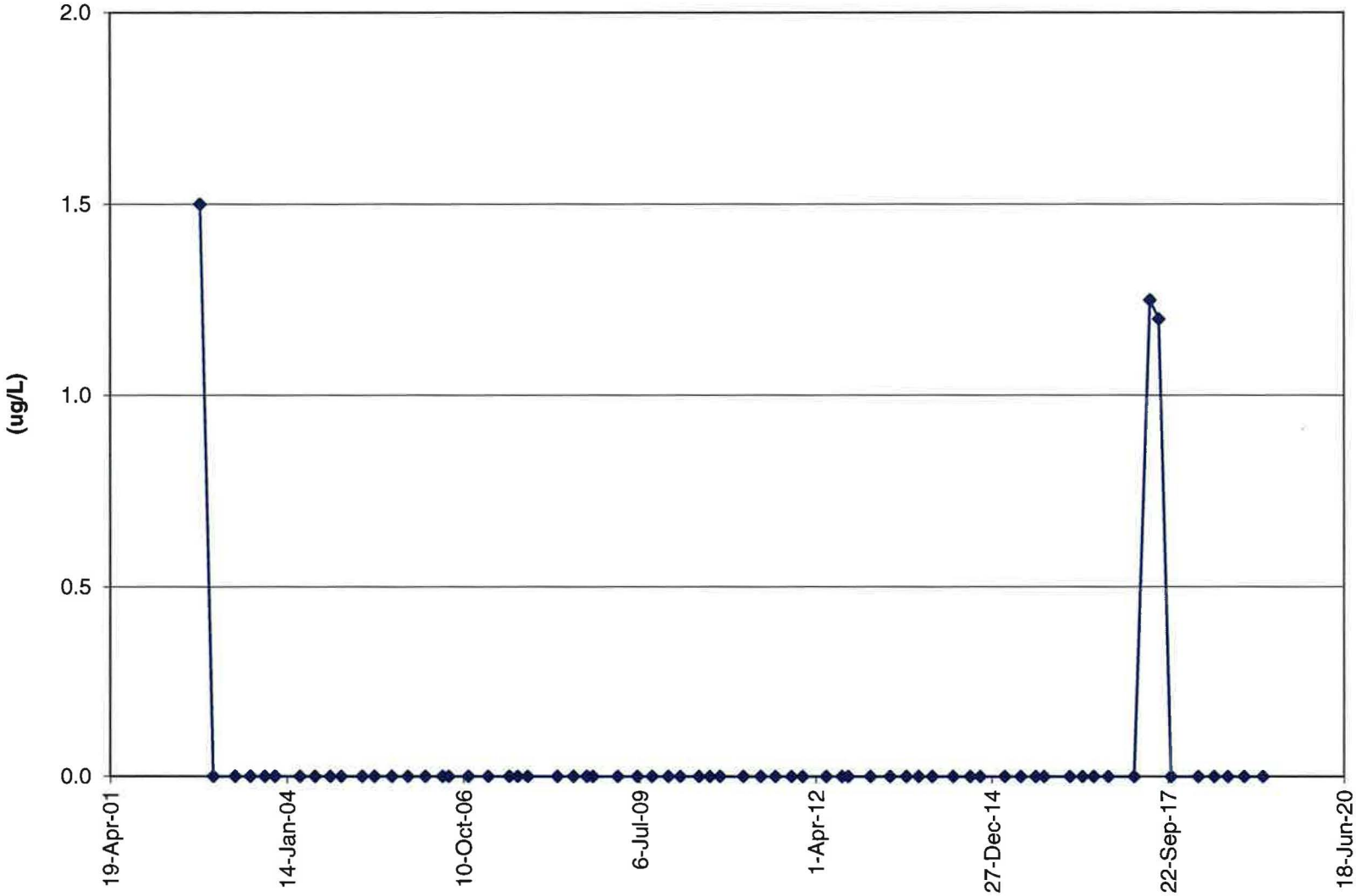
TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	820	ND	ND	ND	7.1	48
16-Nov-11	1500	ND	ND	ND	7.1	46
24-Jan-12	610	ND	ND	ND	6.8	43
13-Jun-12	660	ND	ND	ND	6.7	52
13-Sep-12	740	ND	ND	ND	3	49
4-Oct-12	730	ND	ND	ND	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
23-May-16	3340	2.19	ND	ND	7.81	56.4
25-Jul-16	3200	ND	ND	ND	8.83	55.3
12-Oct-16	3180	1.58	ND	ND	8.92	57.2
8-Mar-17	3310	1.71	ND	ND	8.12	49.8
13-Jun-17	3370	1.83	ND	ND	7.92	51.4
26-Jul-17	3290	1.81	ND	ND	7.78	51.0
11-Oct-17	2880	1.48	ND	ND	7.79	49.7
12-Mar-18	3090	1.82	ND	ND	7.89	54.0
8-Jun-18	2800	1.34	ND	ND	7.51	52.6
22-Aug-18	3050	1.47	ND	ND	7.15	53.3
28-Nov-18	2930	1.33	ND	ND	6.85	45.4
8-Mar-19	2820	1.48	ND	ND	7.50	46.8
5-Jun-19	2970	1.52	1.40	ND	8.30	45.3


TW4-11 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

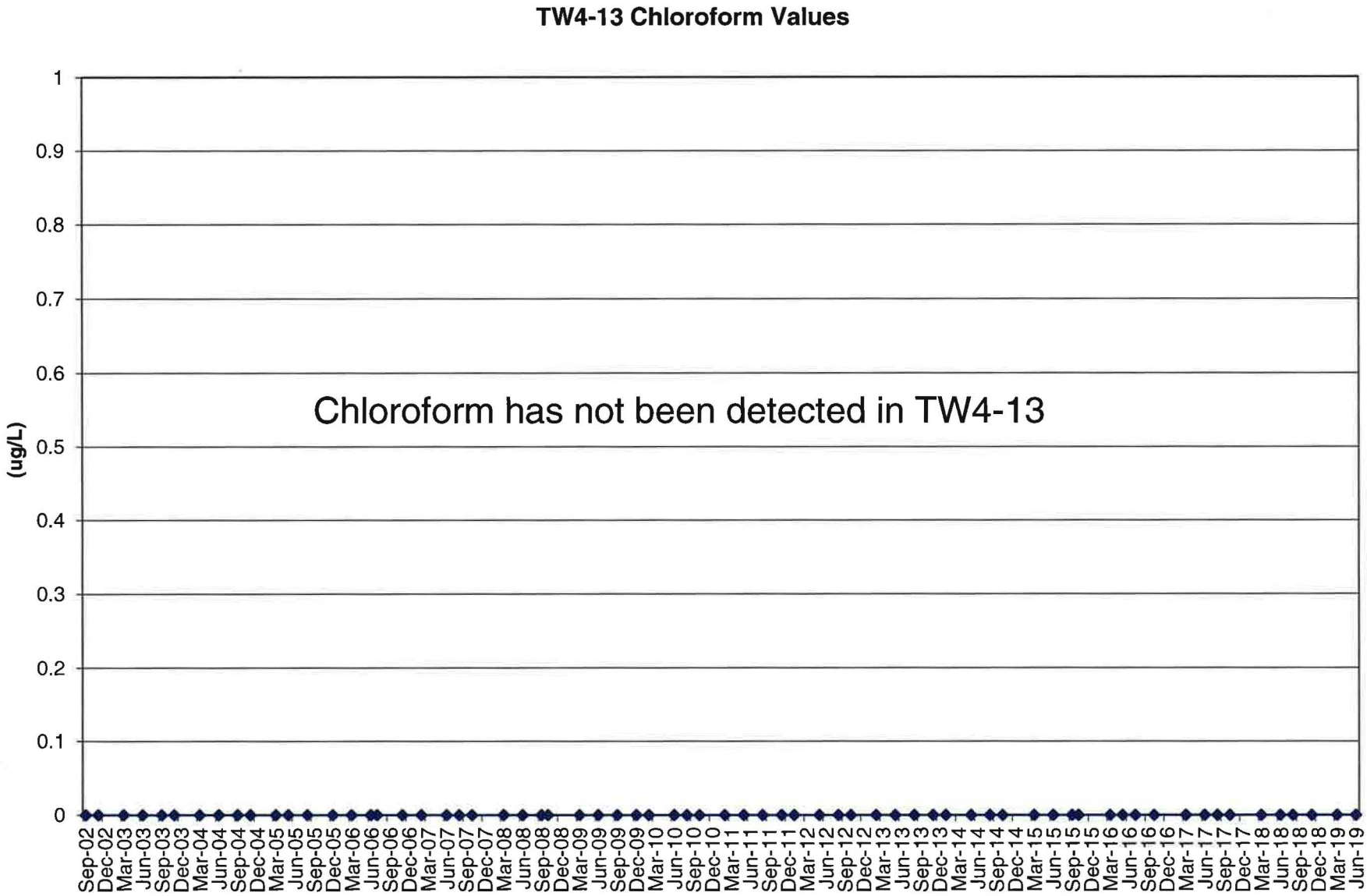
TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39
7-Feb-13	ND	ND	ND	ND	12.6	36.7
29-May-13	ND	ND	ND	ND	14.2	38.6
29-Aug-13	ND	ND	ND	ND	17.4	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
25-May-16	ND	ND	ND	ND	30.7	66.4
27-Jul-16	ND	ND	ND	ND	37.7	67.5
19-Oct-16	ND	ND	ND	ND	25.8	72.6
14-Mar-17	ND	ND	ND	ND	25.9	62.6
14-Jun-17	1.25	ND	ND	ND	29.9	67.2
2-Aug-17	1.20	ND	ND	ND	25.1	65.3
10-Oct-17	ND	ND	ND	ND	26.9	56.2
14-Mar-18	ND	ND	ND	ND	19.8	59.5
12-Jun-18	ND	ND	ND	ND	18.4	53.6
29-Aug-18	ND	ND	ND	ND	13.6	59.9
30-Nov-18	ND	ND	ND	ND	10.4	56.1
16-Mar-19	ND	ND	ND	ND	10.1	50.8
13-Jun-19	ND	ND	ND	ND	8.31	55.3

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				0.20	
23-Jun-03	ND				0.20	
12-Sep-03	ND				ND	
9-Nov-03	ND				0.90	
29-Mar-04	ND				0.12	
22-Jun-04	ND				0.17	
17-Sep-04	ND				4.43	
17-Nov-04	ND				4.70	
16-Mar-05	ND				4.20	
25-May-05	<1	NA	NA	NA	4.30	NA
31-Aug-05	<1	<1	3.1	<1	4.60	NA
1-Dec-05	<1	<1	<1	<1	4.30	NA
9-Mar-06	<1	<1	1.7	<1	4.20	67.0
14-Jun-06	<1	<1	1.4	<1	4.90	66.0
20-Jul-06	<1	<1	<1	<1	4.30	65.0
8-Nov-06	<1	<1	<1	<1	0.80	33.0
28-Feb-07	<1	<1	<1	<1	4.00	59.0
27-Jun-07	<1	<1	<1	<1	4.60	59.0
15-Aug-07	<1	<1	<1	<1	4.40	58.0
10-Oct-07	<1	<1	<1	<1	4.10	58.0
26-Mar-08	<1	<1	<1	<1	3.80	54.0
25-Jun-08	<1	<1	<1	<1	4.24	58.0
10-Sep-08	<1	<1	<1	<1	4.26	50.0
15-Oct-08	<1	<1	<1	<1	4.63	58.0
4-Mar-09	<1	<1	<1	<1	3.70	58.0
24-Jun-09	<1	<1	<1	<1	1.20	57.0
15-Sep-09	<1	<1	<1	<1	4.70	63.0
16-Dec-09	<1	<1	<1	<1	4.10	60.0
24-Feb-10	<1	<1	<1	<1	4.30	53.0
8-Jun-10	<1	<1	<1	<1	5.20	52.0
10-Aug-10	<1	<1	<1	<1	5.60	55.0
5-Oct-10	<1	<1	<1	<1	5.80	55.0
15-Feb-11	ND	ND	ND	ND	5.50	60.0
25-May-11	ND	ND	ND	ND	5.40	56.0
16-Aug-11	ND	ND	ND	ND	5.20	60.0
15-Nov-11	ND	ND	ND	ND	5.90	54.0
17-Jan-12	ND	ND	ND	ND	5.50	55.0
31-May-12	ND	ND	ND	ND	6.00	59.0
29-Aug-12	ND	ND	ND	ND	6.20	60.0
3-Oct-12	ND	ND	ND	ND	5.90	60.0

TW4-13	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
7-Feb-13	ND	ND	ND	ND	6.31	59.3
29-May-13	ND	ND	ND	ND	6.84	56
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	4.80	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	5.70	76.5
21-Oct-15	ND	ND	ND	ND	5.78	65.5
16-Mar-16	ND	ND	ND	ND	7.97	69.4
25-May-16	ND	ND	ND	ND	5.87	71.8
28-Jul-16	ND	ND	ND	ND	6.14	69.3
19-Oct-16	ND	ND	ND	ND	6.20	70.9
15-Mar-17	ND	ND	ND	ND	6.05	66.0
15-Jun-17	ND	ND	ND	ND	6.49	70.4
2-Aug-17	ND	ND	ND	ND	6.15	70.5
10-Oct-17	ND	ND	ND	ND	6.17	60.9
14-Mar-18	ND	ND	ND	ND	5.76	71.0
12-Jun-18	ND	ND	ND	ND	6.24	65.0
29-Aug-18	ND	ND	ND	ND	5.13	73.7
30-Nov-18	ND	ND	ND	ND	5.29	64.5
16-Mar-19	ND	ND	ND	ND	5.74	61.6
13-Jun-19	ND	ND	ND	ND	6.56	65.4


TW4-13 Chloroform Values
(ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Chloroform has not been detected in TW4-13
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
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Dec-15
Mar-16
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Mar-17
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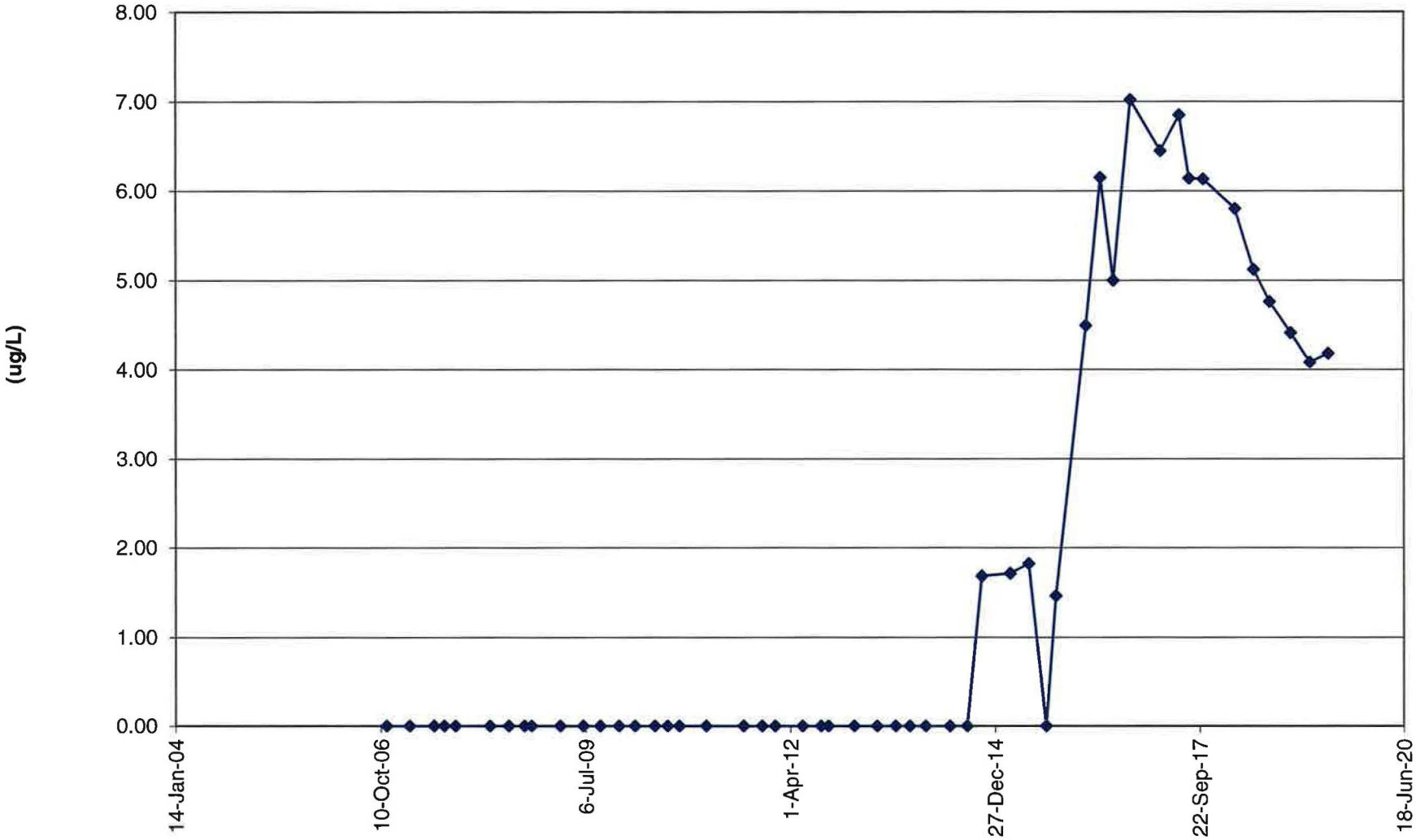
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19

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	2.40	37.0
28-Feb-07	<1	<1	<1	<1	2.30	38.0
27-Jun-07	<1	<1	<1	<1	1.40	38.0
15-Aug-07	<1	<1	<1	<1	1.10	36.0
10-Oct-07	<1	<1	<1	<1	0.80	36.0
26-Mar-08	<1	<1	<1	<1	0.04	57.0
25-Jun-08	<1	<1	<1	<1	1.56	35.0
10-Sep-08	<1	<1	<1	<1	1.34	34.0
15-Oct-08	<1	<1	<1	<1	0.76	40.0
4-Mar-09	<1	<1	<1	<1	1.60	35.0
24-Jun-09	<1	<1	<1	<1	1.40	36.0
15-Sep-09	<1	<1	<1	<1	1.50	38.0
16-Dec-09	<1	<1	<1	<1	1.40	34.0
3-Mar-10	<1	<1	<1	<1	2.50	33.0
8-Jun-10	<1	<1	<1	<1	2.90	49.0
10-Aug-10	<1	<1	<1	<1	2.80	35.0
6-Oct-10	<1	<1	<1	<1	2.90	29.0
15-Feb-11	ND	ND	ND	ND	1.80	25.0
16-Aug-11	ND	ND	ND	ND	2.60	33.0
15-Nov-11	ND	ND	ND	ND	1.70	15.0
17-Jan-12	ND	ND	ND	ND	1.90	20.0
31-May-12	ND	ND	ND	ND	3.30	35.0
29-Aug-12	ND	ND	ND	ND	3.90	37.0
3-Oct-12	ND	ND	ND	ND	4.20	37.0
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	4.10	38.0
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
26-May-16	6.15	ND	ND	3.18	2.45	43.6
28-Jul-16	5.00	ND	ND	1.80	2.88	42.4

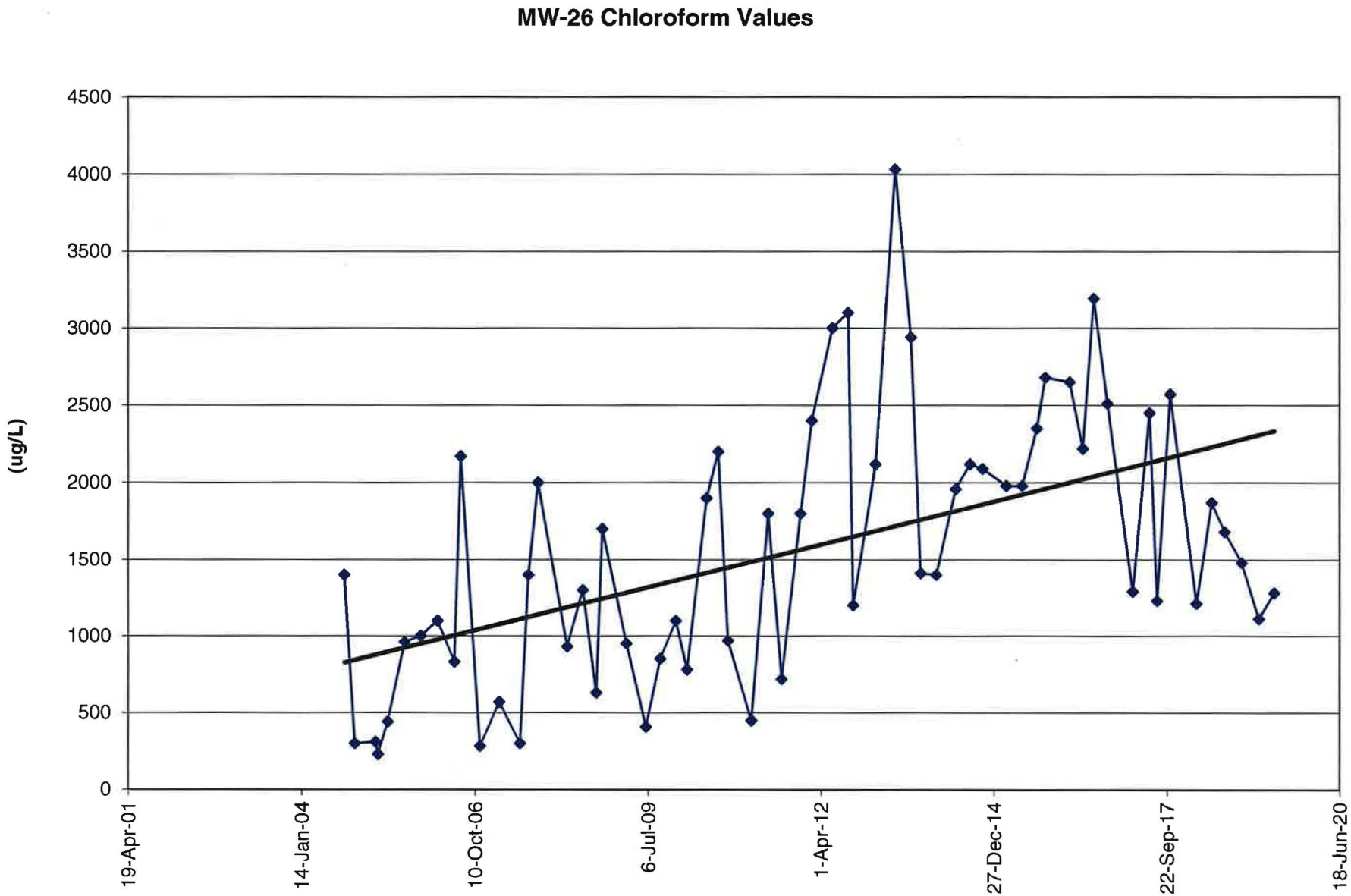
TW4-14	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Oct-16	7.02	ND	ND	1.59	2.86	45.6
15-Mar-17	6.45	ND	ND	ND	4.36	45.4
15-Jun-17	6.85	ND	ND	ND	5.12	46.9
2-Aug-17	6.14	ND	ND	ND	4.84	46.4
10-Oct-17	6.13	ND	ND	ND	4.73	42.5
15-Mar-18	5.80	ND	ND	ND	5.67	51.5
13-Jun-18	5.12	ND	ND	ND	6.36	46.9
30-Aug-18	4.76	ND	ND	ND	5.34	54.1
12-Dec-18	4.41	ND	ND	ND	5.85	48.7
16-Mar-19	4.08	ND	ND	ND	6.16	48.7
13-Jun-19	4.18	ND	ND	ND	5.86	48.3

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

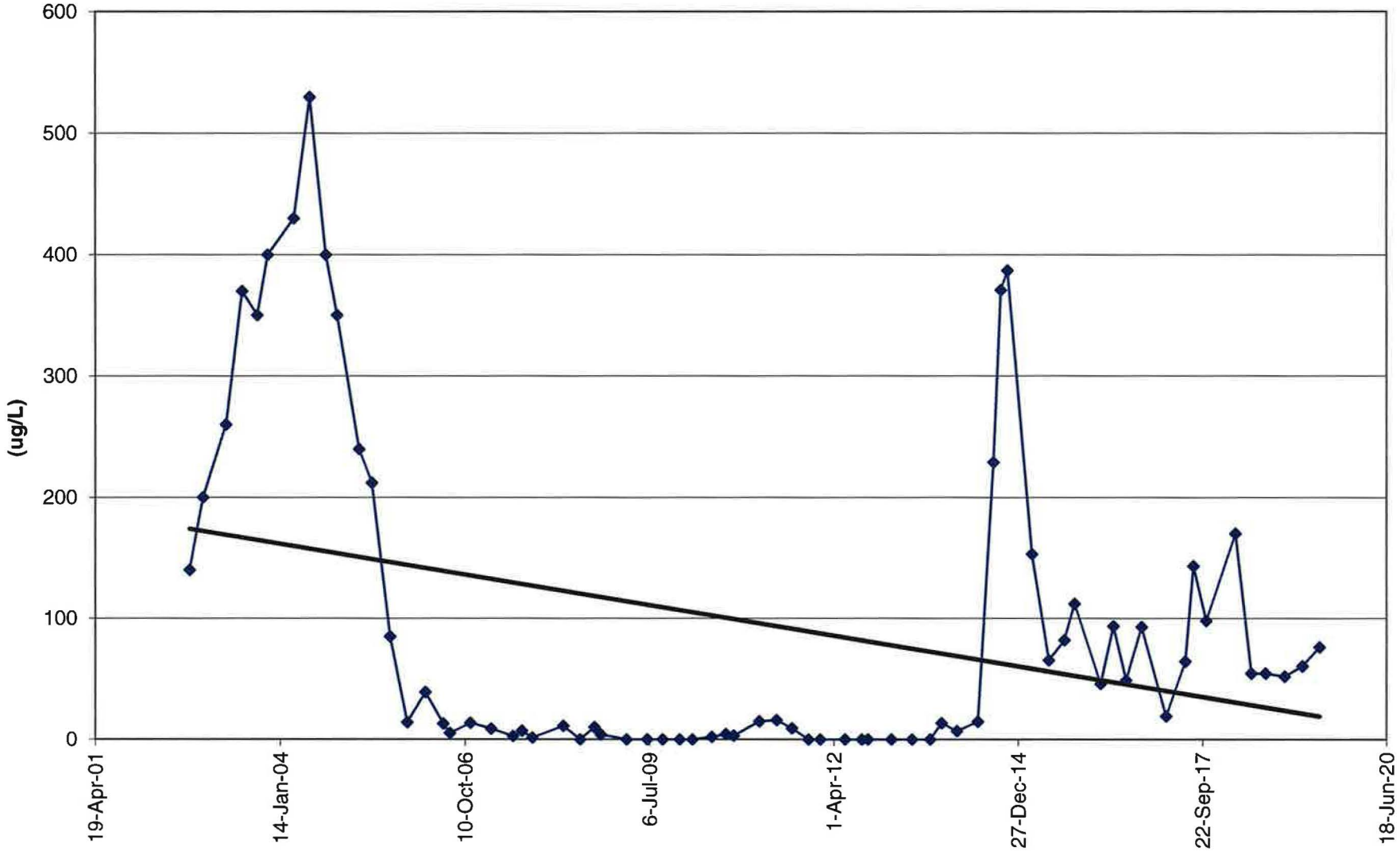
MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-11	1800	ND	ND	1.3	0.4	88
17-Aug-11	720	ND	ND	7.2	0.9	58
5-Dec-11	1800	ND	ND	2.9	2	69
7-Feb-12	2400	ND	ND	16	1.7	98
6-Jun-12	3000	ND	ND	21	2.5	73
4-Sep-12	3100	ND	ND	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
23-May-16	2220	ND	ND	4.57	1.12	66.2
25-Jul-16	3190	ND	ND	7.81	1.57	66.4
12-Oct-16	2510	ND	ND	4.31	1.18	66.2
8-Mar-17	1290	ND	ND	7.65	0.768	58.4
13-Jun-17	2450	ND	ND	7.59	0.922	64.3
26-Jul-17	1230	ND	ND	5.26	1.56	61.4
11-Oct-17	2570	ND	ND	7.83	1.18	62.2
12-Mar-18	1210	ND	ND	2.14	1.57	60.3
8-Jun-18	1870	ND	ND	9.19	0.901	58.7
22-Aug-18	1680	ND	ND	ND	2.80	91.4
28-Nov-18	1480	ND	ND	ND	1.96	85.5
8-Mar-19	1110	ND	ND	2.20	1.85	69.9
5-Jun-19	1280	ND	ND	1.19	2.83	80.7


MW-26 Chloroform Values
(ug/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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	<1	1.1	21	3	60
14-Jun-06	13	<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	<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	<1	<1	<1	3.3	72
22-Feb-11	15	ND	ND	ND	7	86
26-May-11	16	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

TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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	ND	ND	ND	5.1	80
24-Sep-14	371	ND	ND	ND	N/A	N/A
29-Oct-14	387	ND	ND	ND	8.40	92.1
12-Mar-15	153	ND	ND	ND	4.30	65.3
11-Jun-15	65.3	ND	ND	ND	1.06	61
3-Sep-15	82	ND	ND	ND	1.18	65.8
28-Oct-15	112	ND	ND	ND	1.69	58.3
17-Mar-16	45.9	ND	ND	ND	1.63	56.5
26-May-16	93.4	ND	ND	ND	1.89	61.3
3-Aug-16	49	ND	ND	ND	2.20	60
26-Oct-16	92.9	ND	ND	ND	2.78	66.7
8-Mar-17	19.1	ND	ND	ND	2.75	62.2
20-Jun-17	64.3	ND	ND	ND	1.81	60.6
3-Aug-17	143	ND	ND	ND	2.63	67.1
11-Oct-17	97.8	ND	ND	ND	2.12	54.2
20-Mar-18	170	ND	ND	ND	4.55	85.1
14-Jun-18	54.5	ND	ND	ND	2.83	62.5
30-Aug-18	54.5	ND	ND	ND	2.53	73.0
12-Dec-18	52.0	ND	ND	ND	2.88	68.8
19-Mar-19	60.6	ND	ND	ND	3.36	66.3
19-Jun-19	76.2	ND	ND	ND	2.43	71.5

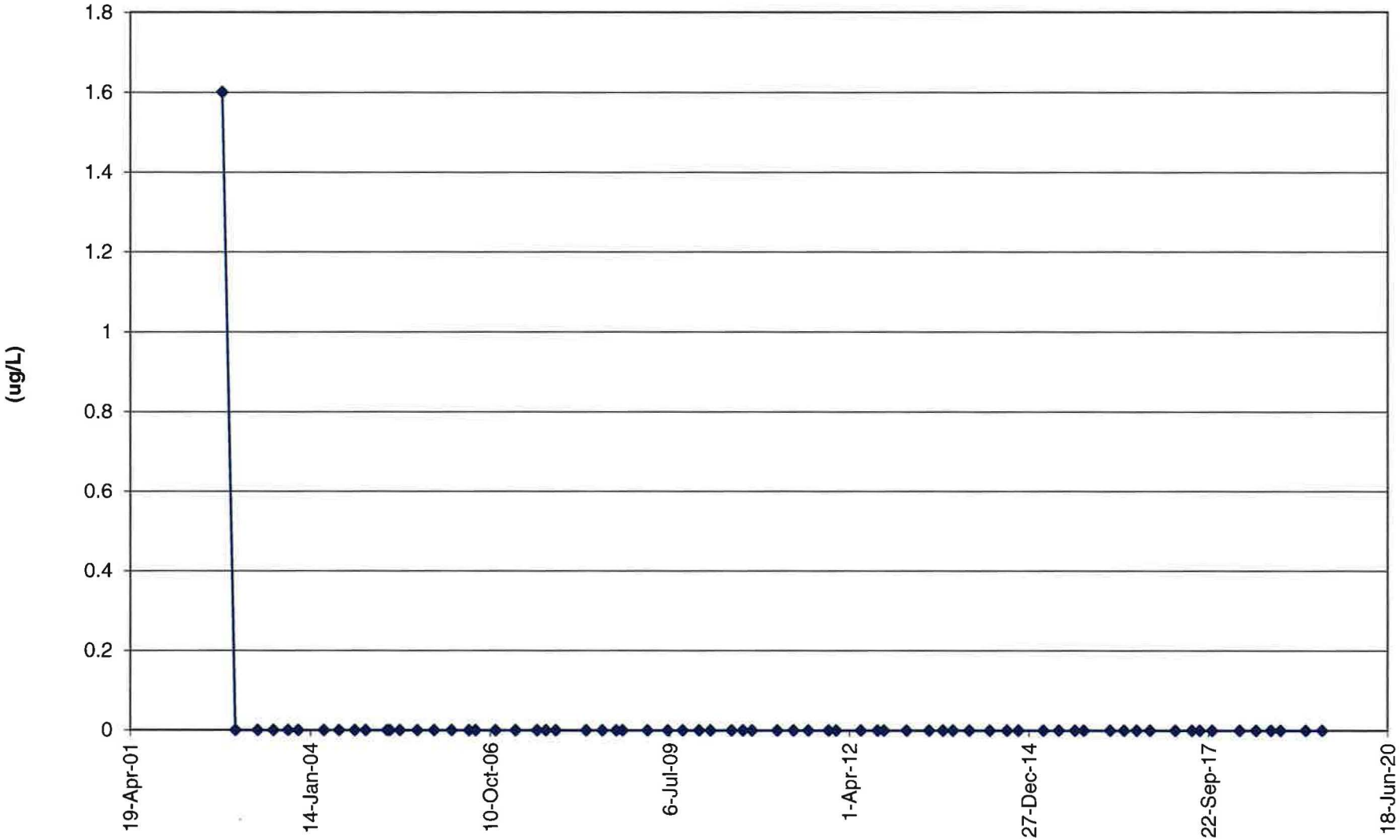
TW4-16 Chloroform Values



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

MW-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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
8-Jun-16	ND	ND	ND	ND	ND	37.2
17-Aug-16	ND	ND	ND	ND	ND	37.5
31-Oct-16	ND	ND	ND	ND	ND	36.9
21-Mar-17	ND	ND	ND	ND	ND	33.7
21-Jun-17	ND	ND	ND	ND	ND	37.2
4-Aug-17	ND	ND	ND	ND	ND	38.1
12-Oct-17	ND	ND	ND	ND	ND	32.6
15-Mar-18	ND	ND	ND	ND	ND	39.4
14-Jun-18	ND	ND	ND	ND	ND	34.4
5-Sep-18	ND	ND	ND	ND	ND	41.2
29-Oct-18	ND	ND	ND	ND	ND	32.9
19-Mar-19	ND	ND	ND	ND	ND	35.3
18-Jun-19	ND	ND	ND	ND	ND	36.5

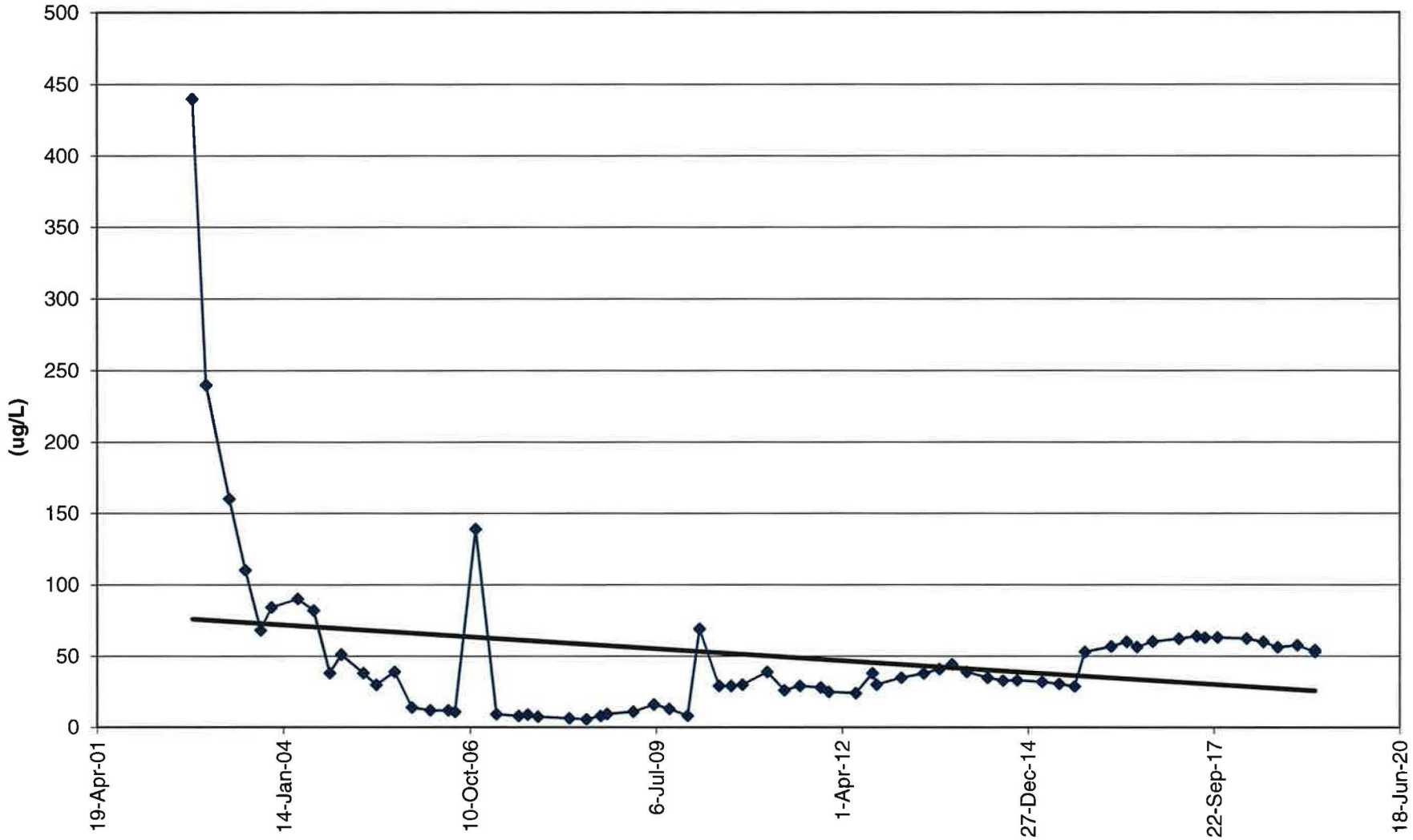
MW-32 Chloroform Values



TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	440				1.49	
24-Nov-02	240				13.3	
28-Mar-03	160				13.1	
23-Jun-03	110				19	
12-Sep-03	68.0				19.9	
9-Nov-03	84.0				20.7	
29-Mar-04	90.0				14	
22-Jun-04	82.0				12.2	
17-Sep-04	38.0				14.5	
17-Nov-04	51.0				17.3	
16-Mar-05	38.0				14.1	
25-May-05	29.8	NA	NA	NA	12.9	NA
31-Aug-05	39	<1	2.8	<1	13.3	NA
1-Dec-05	14	<1	1.1	<1	7.3	NA
9-Mar-06	12.0	<1	1.1	<1	5.9	5.9
14-Jun-06	12.0	<1	1.6	<1	4.7	35
20-Jul-06	10.8	<1	2.7	<1	6.1	35
8-Nov-06	139	<1	<1	<1	8.7	34
28-Feb-07	9.2	<1	<1	<1	5.1	30
27-Jun-07	8.0	<1	<1	<1	4.9	28
15-Aug-07	8.9	<1	<1	<1	5	32
10-Oct-07	7.4	<1	<1	<1	4.4	27
26-Mar-08	6.4	<1	<1	<1	0.7	23
25-Jun-08	5.7	<1	<1	<1	4.55	23
10-Sep-08	8.0	<1	<1	<1	4.68	26
15-Oct-08	9.4	<1	<1	<1	5,15	30
4-Mar-09	11.0	<1	<1	<1	5.2	29
24-Jun-09	16.0	<1	<1	<1	6.2	30
15-Sep-09	13.0	<1	<1	<1	5.9	26
22-Dec-09	8.2	<1	<1	<1	5.4	30
24-Feb-10	69.0	<1	<1	<1	5.1	41
9-Jun-10	29.0	<1	<1	<1	9	35
12-Aug-10	29.0	<1	<1	<1	9	37
13-Oct-10	30.0	<1	<1	<1	10	50
22-Feb-11	39.0	ND	ND	ND	10	52
26-May-11	26.0	ND	ND	ND	9	36
17-Aug-11	29.0	ND	ND	ND	4.6	23
7-Dec-11	28.0	ND	ND	ND	6.3	23
19-Jan-12	25.0	ND	ND	ND	4.4	18

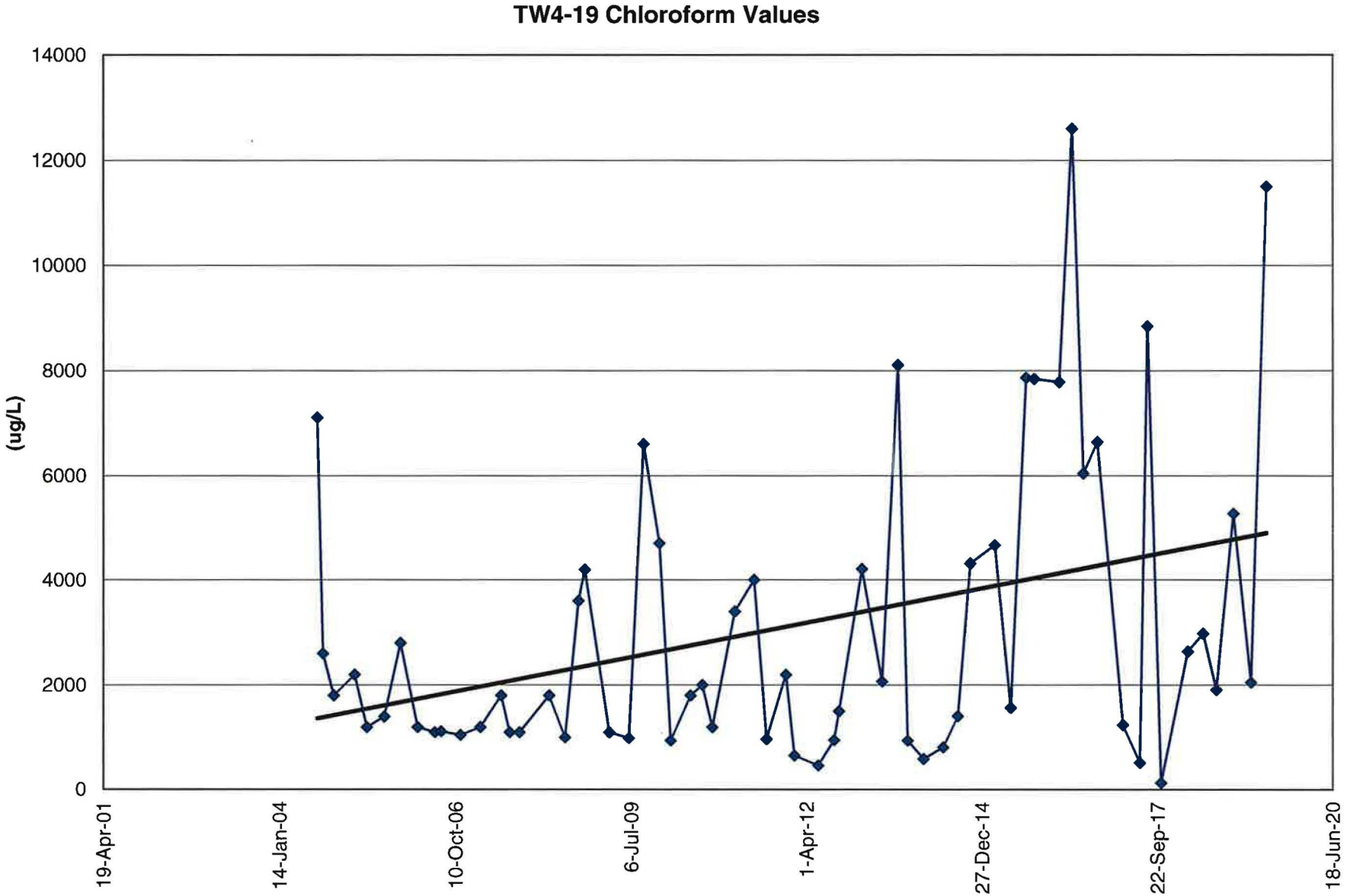
TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Jun-12	24.0	ND	ND	ND	6.6	30
11-Sep-12	38.0	ND	ND	ND	6.6	26
3-Oct-12	30.0	ND	ND	ND	6	27
13-Feb-13	34.9	ND	ND	ND	5.58	23.1
13-Jun-13	37.9	ND	ND	ND	8.86	22.9
5-Sep-13	41.0	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
8-Jun-16	60.0	ND	ND	ND	5.43	43.8
3-Aug-16	56.3	ND	ND	ND	5.79	40.7
26-Oct-16	60.1	ND	ND	ND	5.24	43.9
16-Mar-17	62.0	ND	ND	ND	4.47	39.4
20-Jun-17	63.8	ND	ND	ND	4.5	41.6
3-Aug-17	62.8	ND	ND	ND	4.24	40.4
10-Oct-17	62.9	ND	ND	ND	4.43	37.1
15-Mar-18	62.3	ND	ND	ND	4.32	44.3
13-Jun-18	59.9	ND	ND	ND	4.09	39.5
30-Aug-18	56.2	ND	ND	ND	3.51	45.6
13-Dec-18	57.6	ND	ND	ND	3.60	38.2
19-Mar-19	52.8	ND	ND	ND	3.85	37.6
19-Jun-19	54.2	ND	ND	ND	4.01	39.5

TW4-18 Chloroform Values



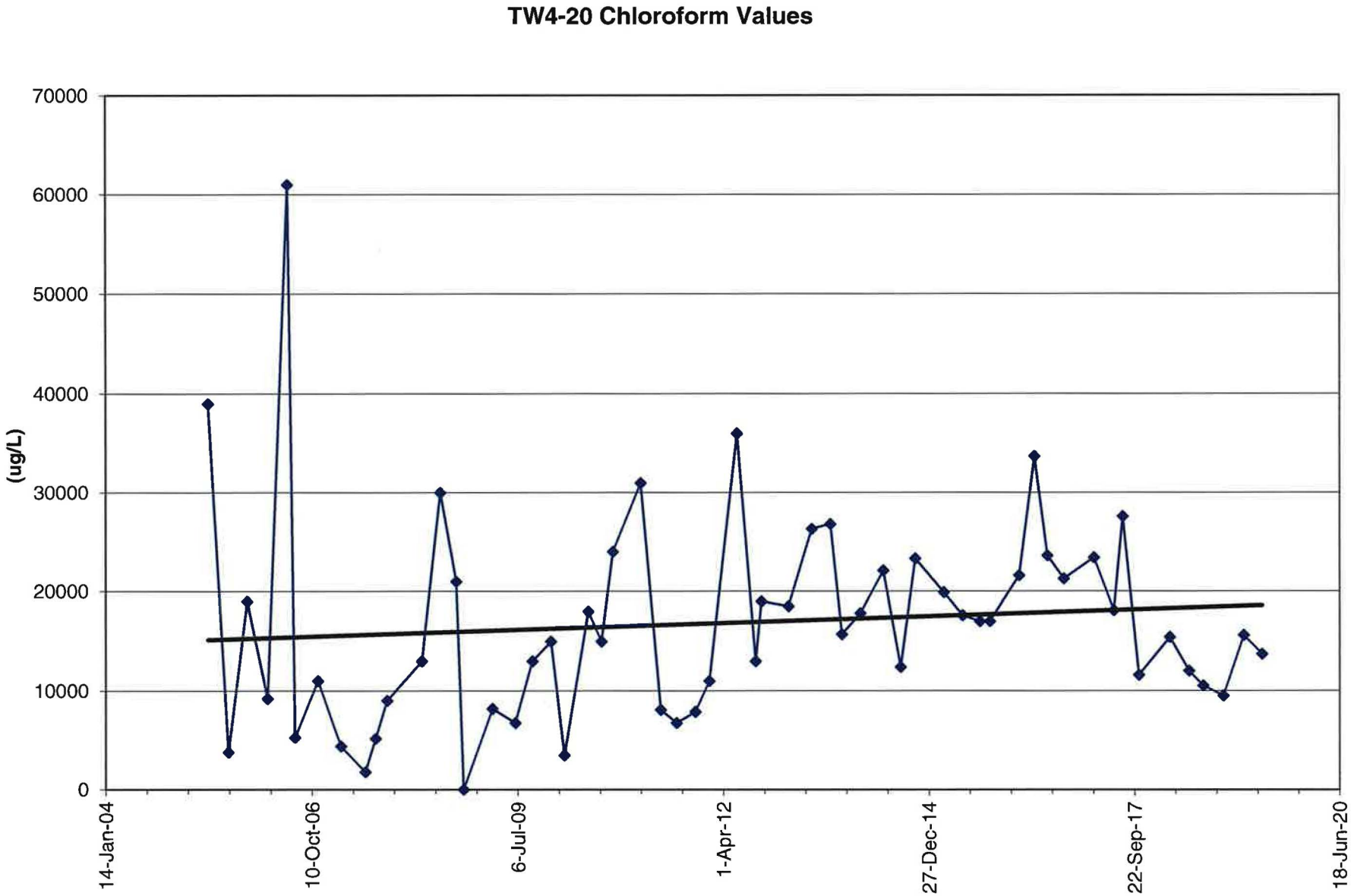
TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	7700				47.6	
24-Nov-02	5400				42	
28-Mar-03	4200				61.4	
15-May-03	4700				NA	
23-Jun-03	4500				11.4	
15-Jul-03	2400				6.8	
15-Aug-03	2600				4	
12-Sep-03	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

TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
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
23-May-16	12600	23.1	ND	ND	1.27	204
25-Jul-16	6040	9.89	ND	ND	10.5	214
25-Jul-16	6040	9.89	ND	ND	10.5	214
13-Oct-16	6640	10.8	ND	ND	10.0	200
8-Mar-17	1240	3.06	ND	ND	11.1	461
13-Jun-17	510	1.35	ND	ND	0.243	135
26-Jul-17	8840	13.0	ND	ND	1.12	218
11-Oct-17	129	ND	ND	ND	0.377	139
12-Mar-18	2640	1.36	ND	ND	8.61	193
8-Jun-18	2980	3.45	ND	ND	0.494	138
22-Aug-18	1910	2.03	ND	ND	2.55	166
28-Nov-18	5270	6.18	ND	ND	0.233	140
8-Mar-19	2050	2.43	ND	ND	6.58	197
5-Jun-19	11500	15.90	ND	ND	8.96	160


TW4-19 Chloroform Values
14000
12000
10000
8000
6000
4000
2000
0
(ug/L)
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

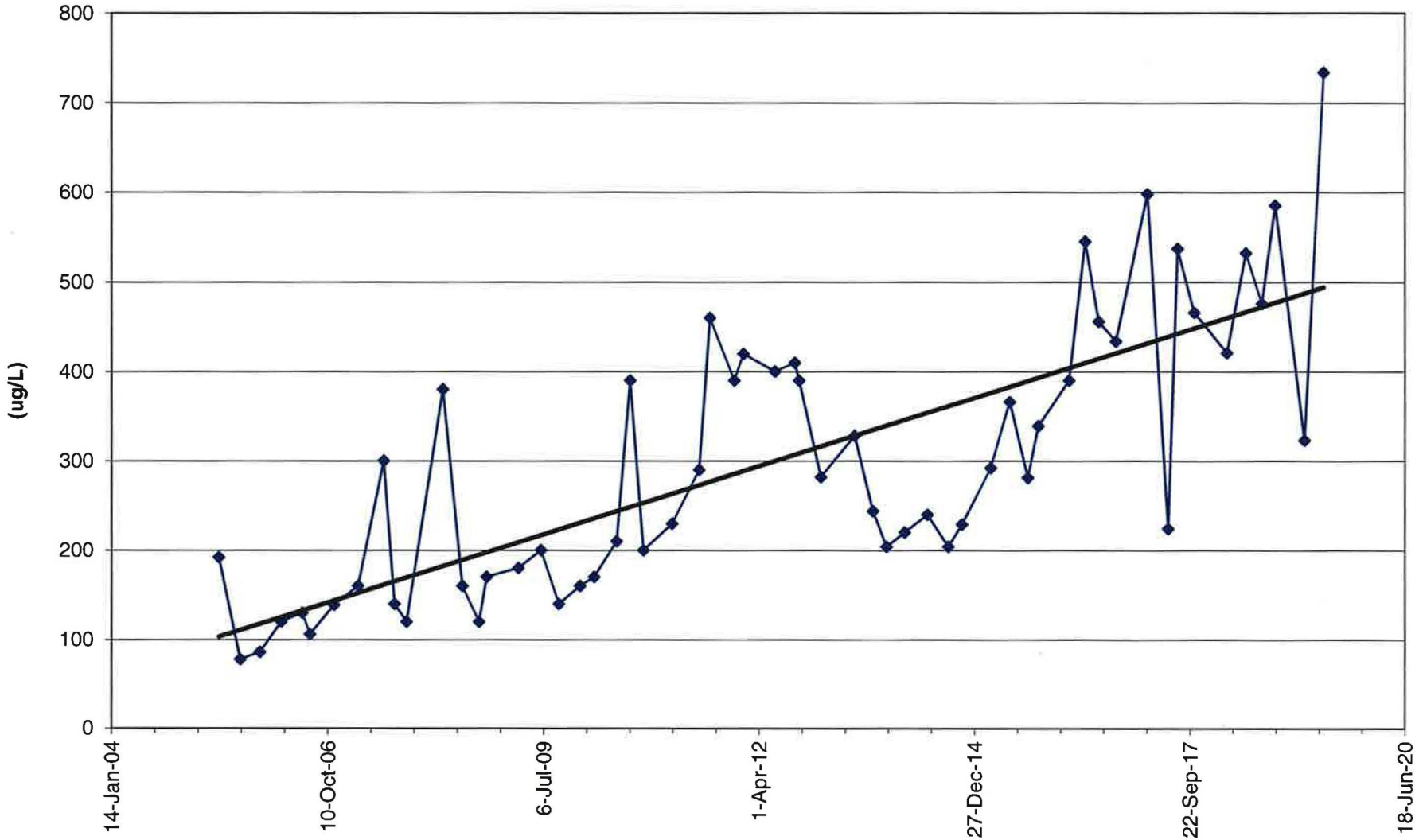
TW4-20	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
9-Mar-15	19900	20.8	4.85	1.38	9.8	290
8-Jun-15	17600	16.2	13.4	1.73	5.76	296
31-Aug-15	17000	15.1	12.3	ND	9.27	365
19-Oct-15	17000	14.5	10.8	1	6.23	293
9-Mar-16	21600	20.2	4.09	1.16	10.3	293
23-May-16	33700	40.6	ND	ND	11.2	318
25-Jul-16	23600	26.6	ND	ND	11.3	307
12-Oct-16	21300	24.4	ND	ND	11.4	301
8-Mar-17	23400	23.5	ND	ND	12	290
13-Jun-17	18100	23.4	ND	ND	9.76	281
26-Jul-17	27600	25.0	ND	ND	10.8	292
12-Oct-17	11600	11.2	2.34	ND	8.91	293
12-Mar-18	15400	15.9	1.77	2.36	9.5	289
14-Jun-18	12000	ND	ND	7.77	10.4	258
22-Aug-18	10500	9.85	4.98	ND	8.14	282
28-Nov-18	9500	8.32	15.6	ND	9.72	295
8-Mar-19	15600	15.40	ND	ND	6.70	272
5-Jun-19	13700	10.10	ND	ND	9.59	279


TW4-20 Chloroform Values
70000
60000
50000
40000
30000
20000
10000
0
(ug/L)
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

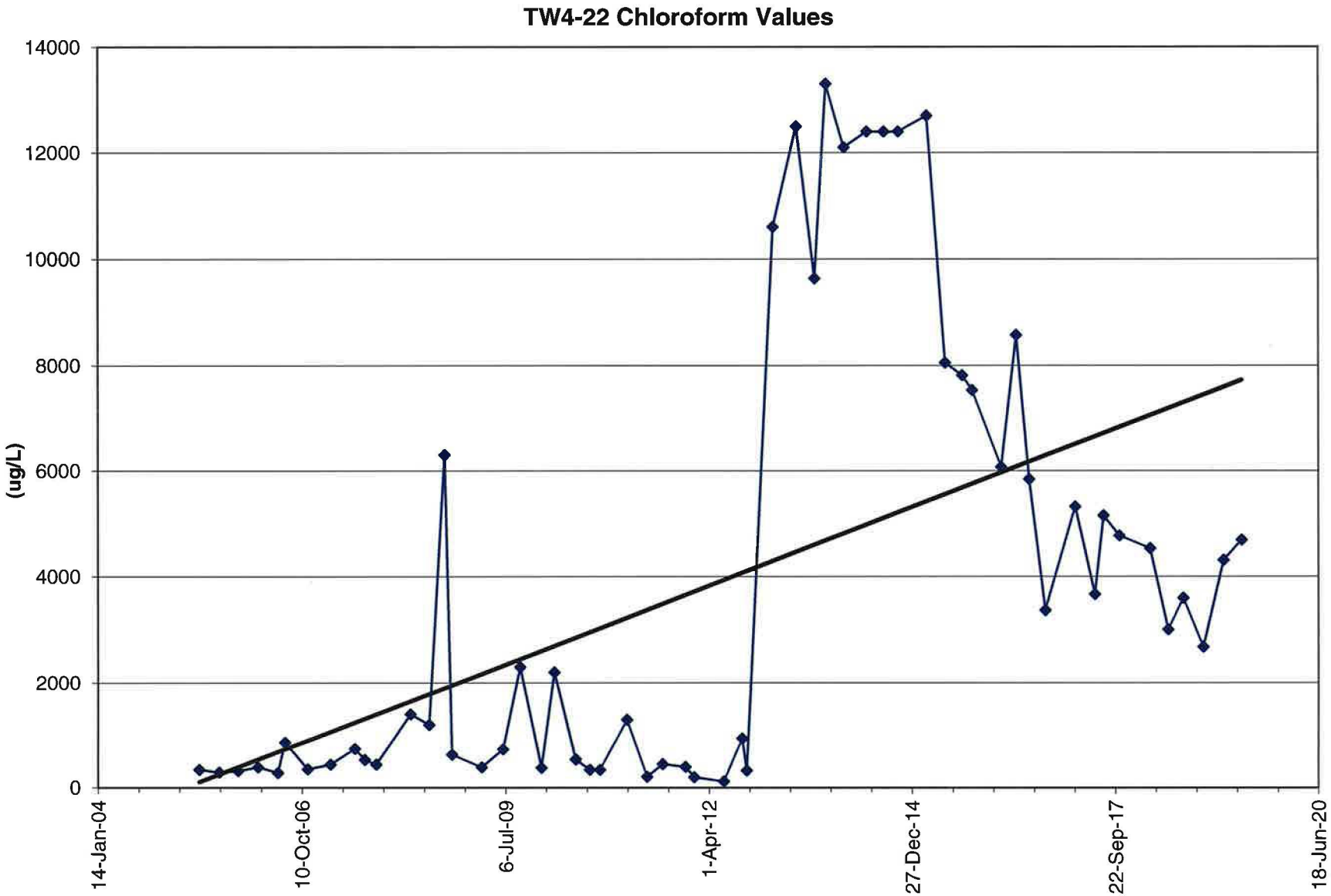
TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Mar-15	292	1.75	ND	ND	10.9	255
8-Jun-15	366	1.92	ND	ND	13.1	494
31-Aug-15	281	ND	ND	ND	14.7	499
19-Oct-15	339	ND	ND	ND	14.3	413
9-Mar-16	390	ND	ND	ND	14.6	452
23-May-16	545	ND	ND	ND	13.1	425
25-Jul-16	456	ND	ND	ND	16.5	457
12-Oct-16	434	ND	ND	ND	11.4	301
12-Oct-16	434	ND	ND	ND	11.4	301
8-Mar-17	598	2.36	ND	ND	12.0	290
13-Jun-17	224	1.16	ND	ND	9.53	309
26-Jul-17	537	1.05	ND	ND	18.2	447
11-Oct-17	466	ND	ND	ND	16.9	378
12-Mar-18	421	ND	ND	ND	15.8	447
8-Jun-18	532	ND	ND	ND	14.1	387
22-Aug-18	476	ND	ND	ND	0.236	182
22-Oct-18	585	ND	ND	ND	15.2	392
8-Mar-19	323	ND	ND	ND	8.99	180
5-Jun-19	734	ND	ND	ND	17.50	456

TW4-21 Chloroform Values



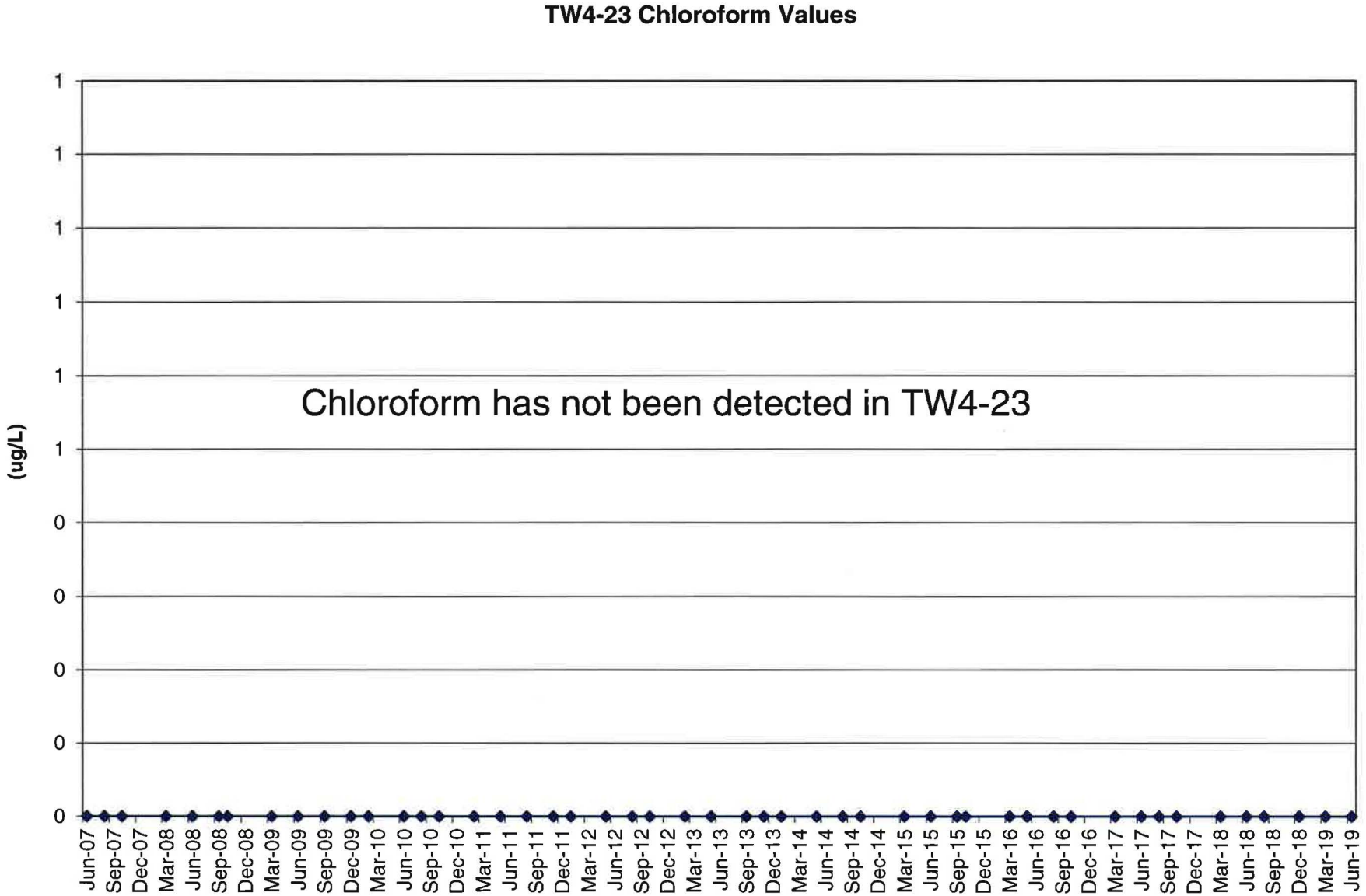
TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	340	NA	NA	NA	18.2	NA
31-Aug-05	290	<5	<5	<5	15.7	NA
1-Dec-05	320	<5	<5	<5	15.1	NA
9-Mar-06	390	<10	<10	<10	15.3	236
14-Jun-06	280	<10	<10	<10	14.3	221
20-Jul-06	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

TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
9-Mar-16	6070	ND	ND	ND	31.1	583
23-May-16	8570	2.64	ND	ND	58.4	598
25-Jul-16	5840	ND	ND	ND	61.3	619
12-Oct-16	3370	1.08	ND	ND	61.5	588
8-Mar-17	5320	1.56	ND	ND	69.8	566
13-Jun-17	3670	1.21	ND	ND	70.8	572
26-Jul-17	5150	ND	ND	ND	66.1	391
11-Oct-17	4770	ND	ND	ND	80.1	600
12-Mar-18	4530	ND	ND	ND	62.3	607
8-Jun-18	3010	ND	ND	ND	72.5	580
22-Aug-18	3600	ND	ND	ND	55.4	613
28-Nov-18	2680	ND	ND	ND	75.7	567
8-Mar-19	4310	1.02	ND	ND	71.9	528
5-Jun-19	4690	ND	1.13	ND	83.9	662


TW4-22 Chloroform Values
14000
12000
10000
8000
6000
4000
2000
0
(ug/L)
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

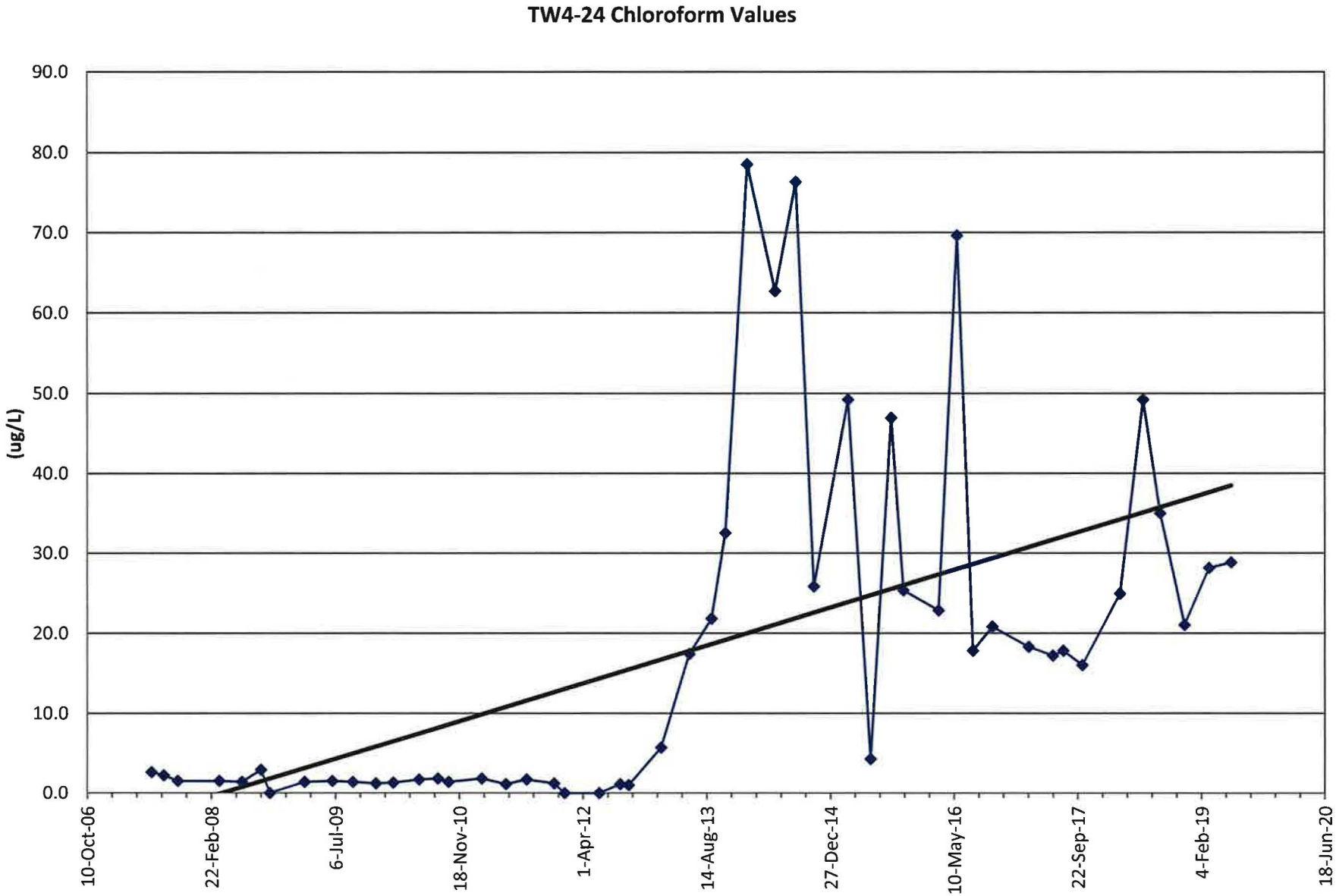
TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	<0.1	47
15-Aug-07	<1	<1	<1	<1	<0.1	46
10-Oct-07	<1	<1	<1	<1	<0.1	43
26-Mar-08	<1	<1	<1	<1	<0.1	41
25-Jun-08	<1	<1	<1	<1	<0.05	41
10-Sep-08	<1	<1	<1	<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
26-May-16	ND	ND	ND	ND	ND	50.4
3-Aug-16	ND	ND	ND	ND	ND	49.6
20-Oct-16	ND	ND	ND	ND	ND	52.1

TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Mar-17	ND	ND	ND	ND	ND	47.7
15-Jun-17	ND	ND	ND	ND	ND	51.5
2-Aug-17	ND	ND	ND	ND	ND	51.8
10-Oct-17	ND	ND	ND	ND	ND	44.7
14-Mar-18	ND	ND	ND	ND	ND	53.8
13-Jun-18	ND	ND	ND	ND	ND	47.6
30-Aug-18	ND	ND	ND	ND	ND	56.0
12-Dec-18	ND	ND	ND	ND	ND	54.9
16-Mar-19	ND	ND	ND	ND	ND	48.9
13-Jun-19	ND	ND	ND	ND	ND	50.2


TW4-23 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-23
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19

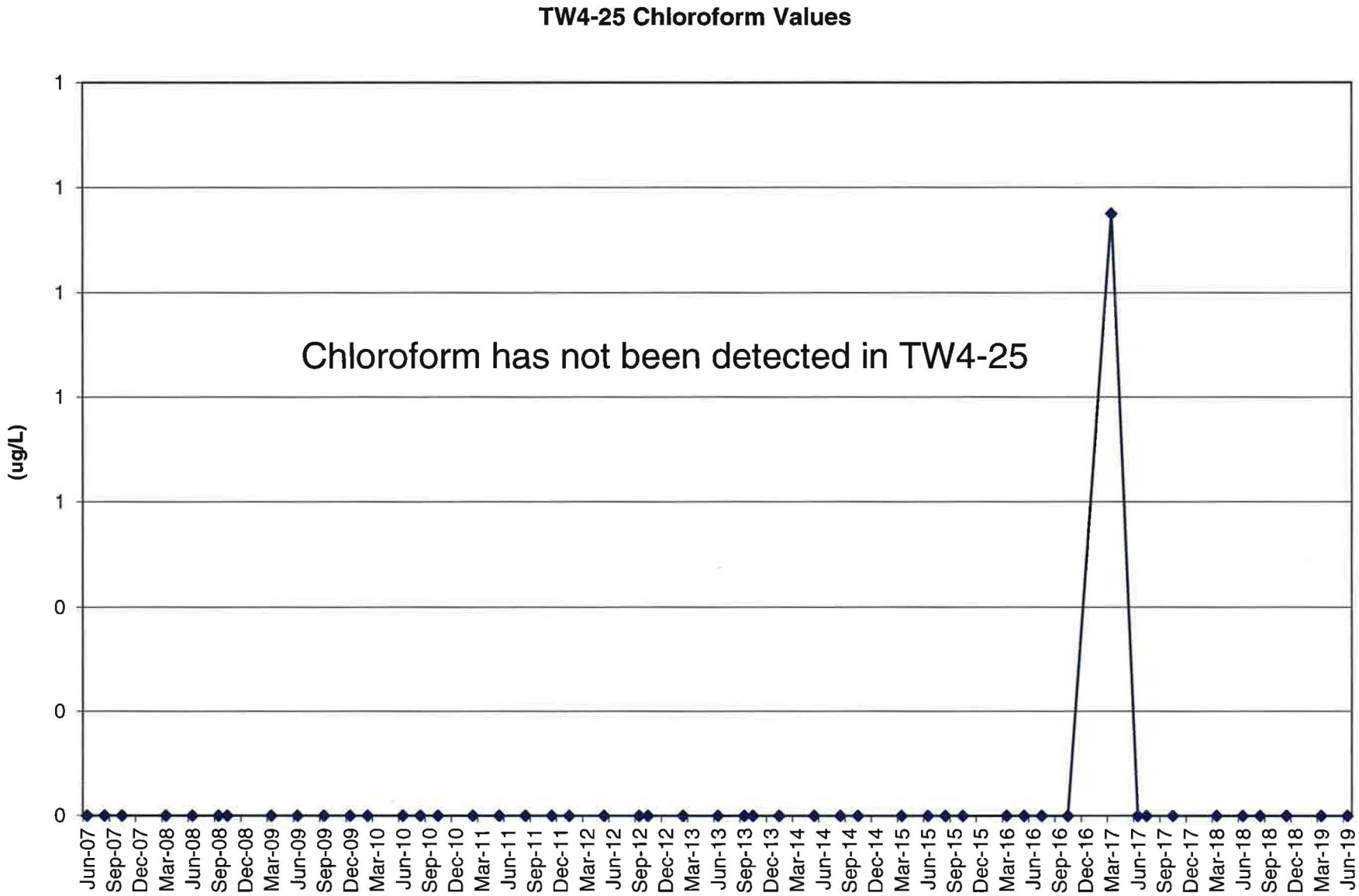
TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<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
23-May-16	69.6	ND	ND	ND	24.2	771
25-Jul-16	17.8	ND	ND	ND	34.4	1180
12-Oct-16	20.8	ND	ND	ND	31.9	1010

TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Mar-17	18.3	ND	ND	ND	41.3	1090
13-Jun-17	17.2	ND	ND	ND	39.9	1080
26-Jul-17	17.8	ND	ND	ND	40.0	1230
11-Oct-17	16.0	ND	ND	ND	31.7	895
12-Mar-18	24.9	ND	ND	ND	44.9	1320
14-Jun-18	49.2	ND	ND	ND	33.6	792
22-Aug-18	35.0	ND	ND	ND	33.8	996
28-Nov-18	21.0	ND	ND	ND	38.4	1100
8-Mar-19	28.1	ND	ND	ND	39.3	1040
5-Jun-19	28.8	ND	ND	ND	33.2	1020

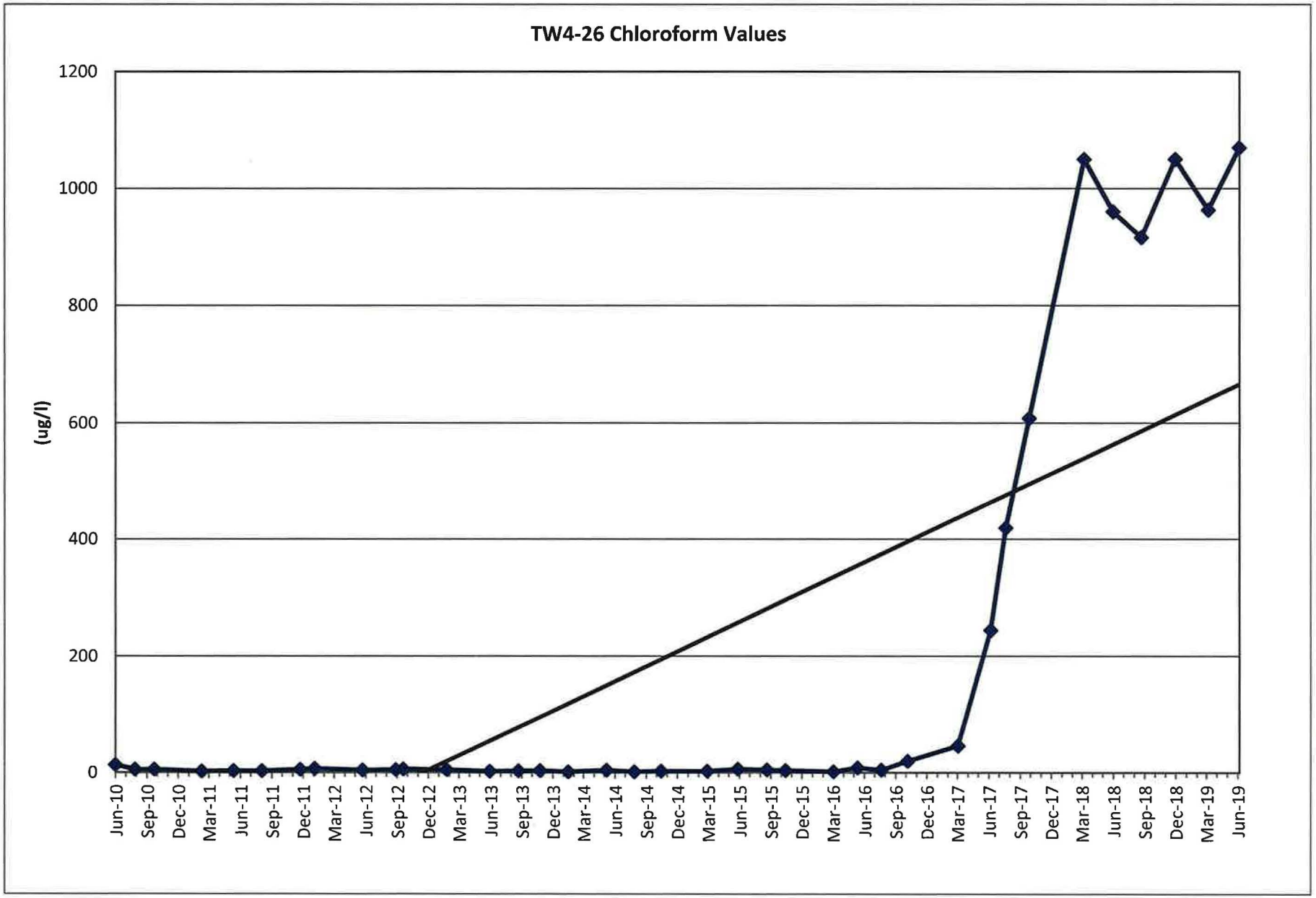

TW4-24 Chloroform Values
(ug/L)
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17
4-Feb-19
18-Jun-20

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
23-May-16	ND	ND	ND	ND	0.959	75.5
25-Jul-16	ND	ND	ND	ND	1.78	74.1
12-Oct-16	ND	ND	ND	ND	1.24	59.8

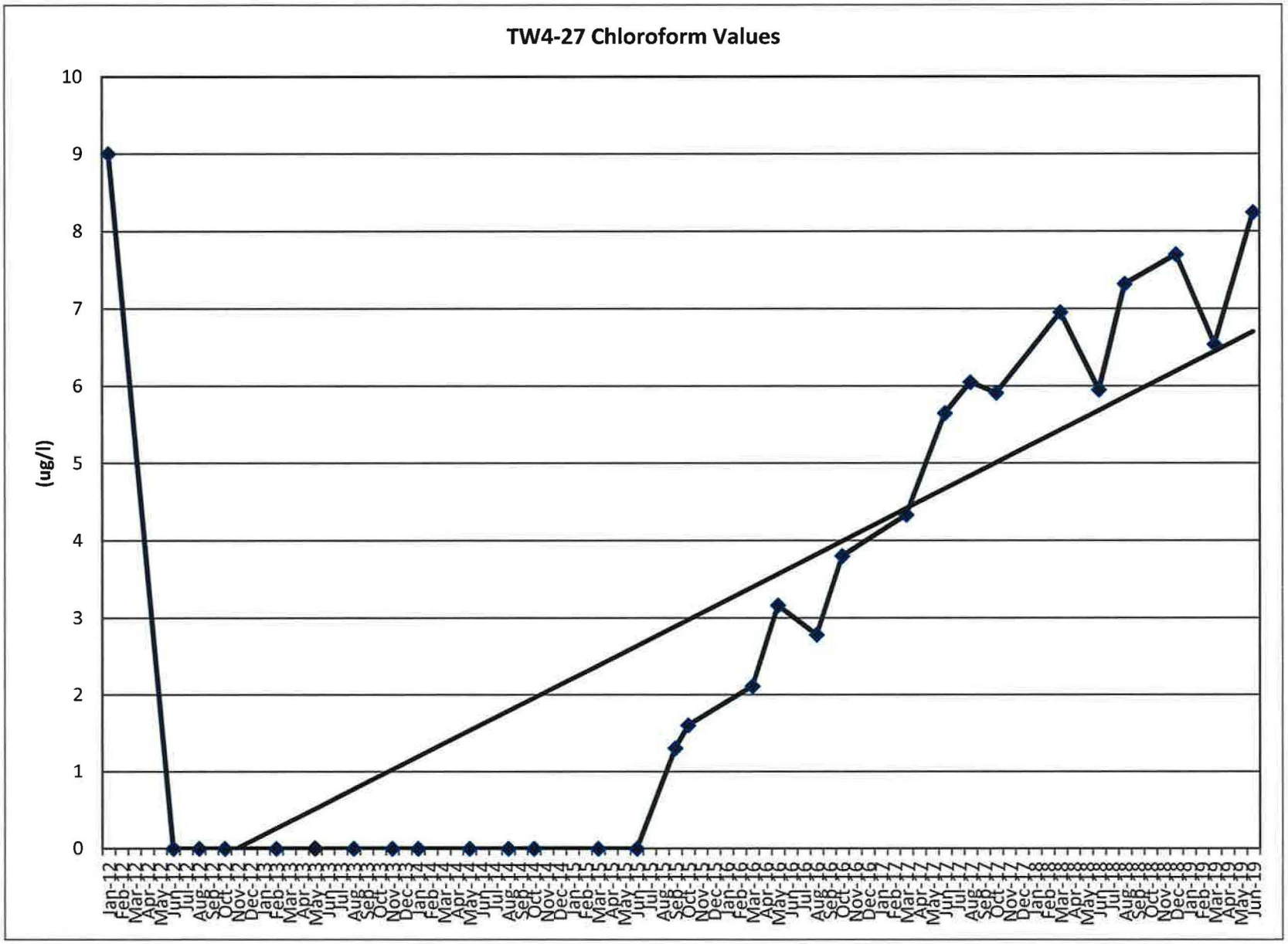
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Mar-17	1	ND	ND	ND	17	285
13-Jun-17	ND	ND	ND	ND	0.976	69.8
26-Jul-17	ND	ND	ND	ND	1.23	70.1
11-Oct-17	ND	ND	ND	ND	1.29	68.0
12-Mar-18	ND	ND	ND	ND	2.23	70.5
14-Jun-18	ND	ND	ND	ND	1.14	60.3
22-Aug-18	ND	ND	ND	ND	0.810	69.1
28-Nov-18	ND	ND	ND	ND	0.634	59.7
8-Mar-19	ND	ND	ND	ND	0.639	65.0
5-Jun-19	ND	ND	ND	ND	0.821	59.0


TW4-25 Chloroform Values
(ug/L)
1
1
1
1
1
0
0
0
Chloroform has not been detected in TW4-25
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19

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
26-May-16	8.23	ND	ND	ND	15.2	13.9
3-Aug-16	4.42	ND	ND	ND	17.9	13.9
20-Oct-16	19.9	ND	ND	ND	15.0	14.2
16-Mar-17	46.1	ND	ND	ND	15.8	16.2
20-Jun-17	244	ND	ND	ND	15.2	19.0
3-Aug-17	419	ND	ND	ND	15.2	25.8
11-Oct-17	608	ND	ND	ND	10.0	27.3
21-Mar-18	1050	ND	ND	ND	12.2	35.5
14-Jun-18	960	ND	ND	ND	13.2	33.5
5-Sep-18	916	ND	ND	ND	13.5	38.9
13-Dec-18	1050	ND	ND	ND	11.8	33.4
20-Mar-19	963	ND	ND	ND	12.2	32.9
19-Jun-19	1070	ND	ND	ND	12.6	35.8


TW4-26 Chloroform Values
(ug/l)
1200
1000
800
600
400
200
0
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19

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
26-May-16	3.16	ND	ND	ND	21.2	28.7
3-Aug-16	2.78	ND	ND	ND	21.8	27.1
20-Oct-16	3.80	ND	ND	ND	19.3	29.4
15-Mar-17	4.33	ND	ND	ND	22.2	28.3
15-Jun-17	5.65	ND	ND	ND	23.8	27.9
2-Aug-17	6.05	ND	ND	ND	20.0	29.5
10-Oct-17	5.91	ND	ND	ND	21.5	26.3
14-Mar-18	6.95	ND	ND	ND	19.5	30.3
13-Jun-18	5.95	ND	ND	ND	22.0	28.3
30-Aug-18	7.32	ND	ND	ND	18.1	31.4
12-Dec-18	7.70	ND	ND	ND	20.8	28.2
16-Mar-19	6.54	ND	ND	ND	21.5	26.2
13-Jun-19	8.24	ND	ND	ND	22.3	28.6


TW4-27 Chloroform Values
(ug/l)
10
9
8
7
6
5
4
3
2
1
0
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
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Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
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Sep-15
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Jan-16
Feb-16
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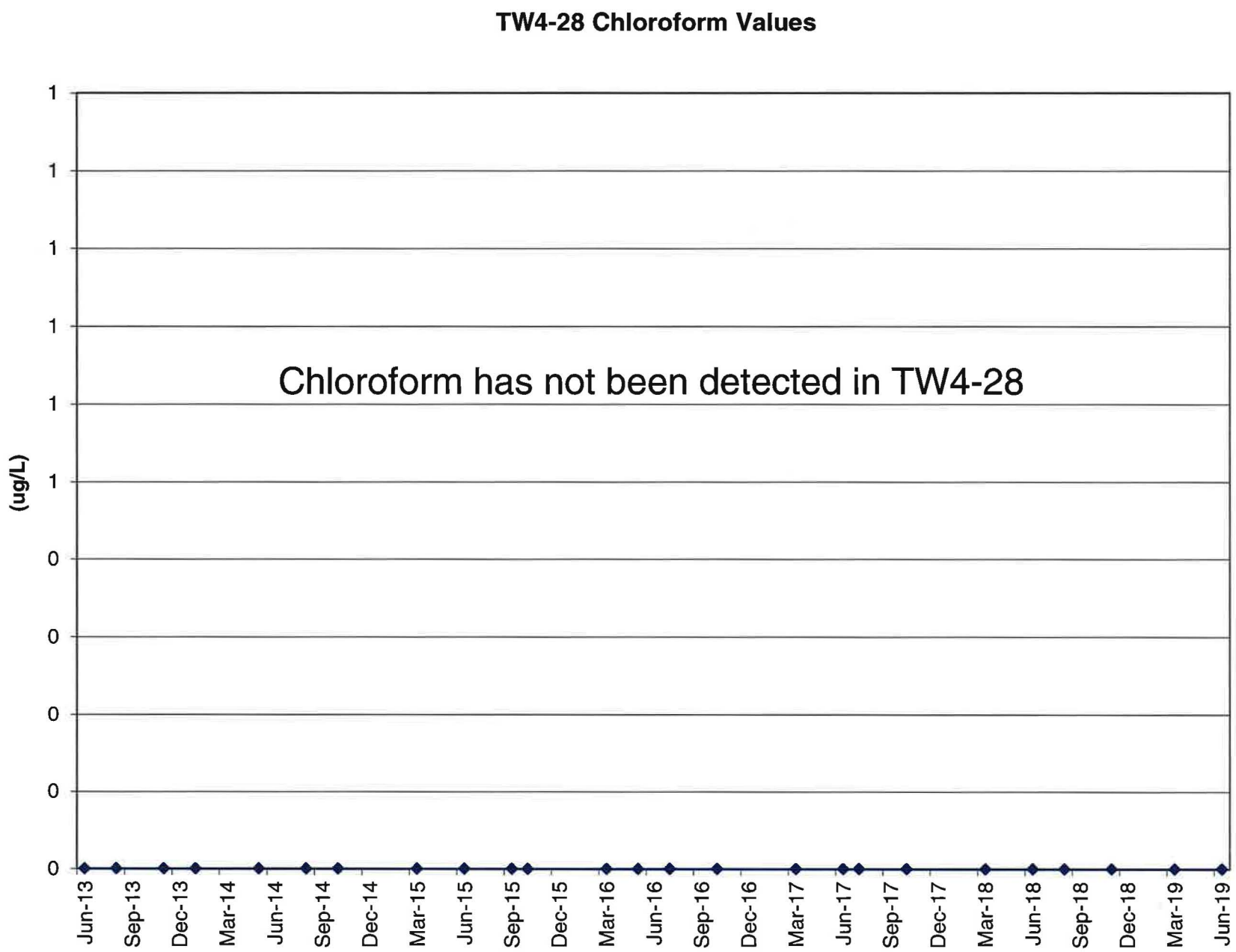
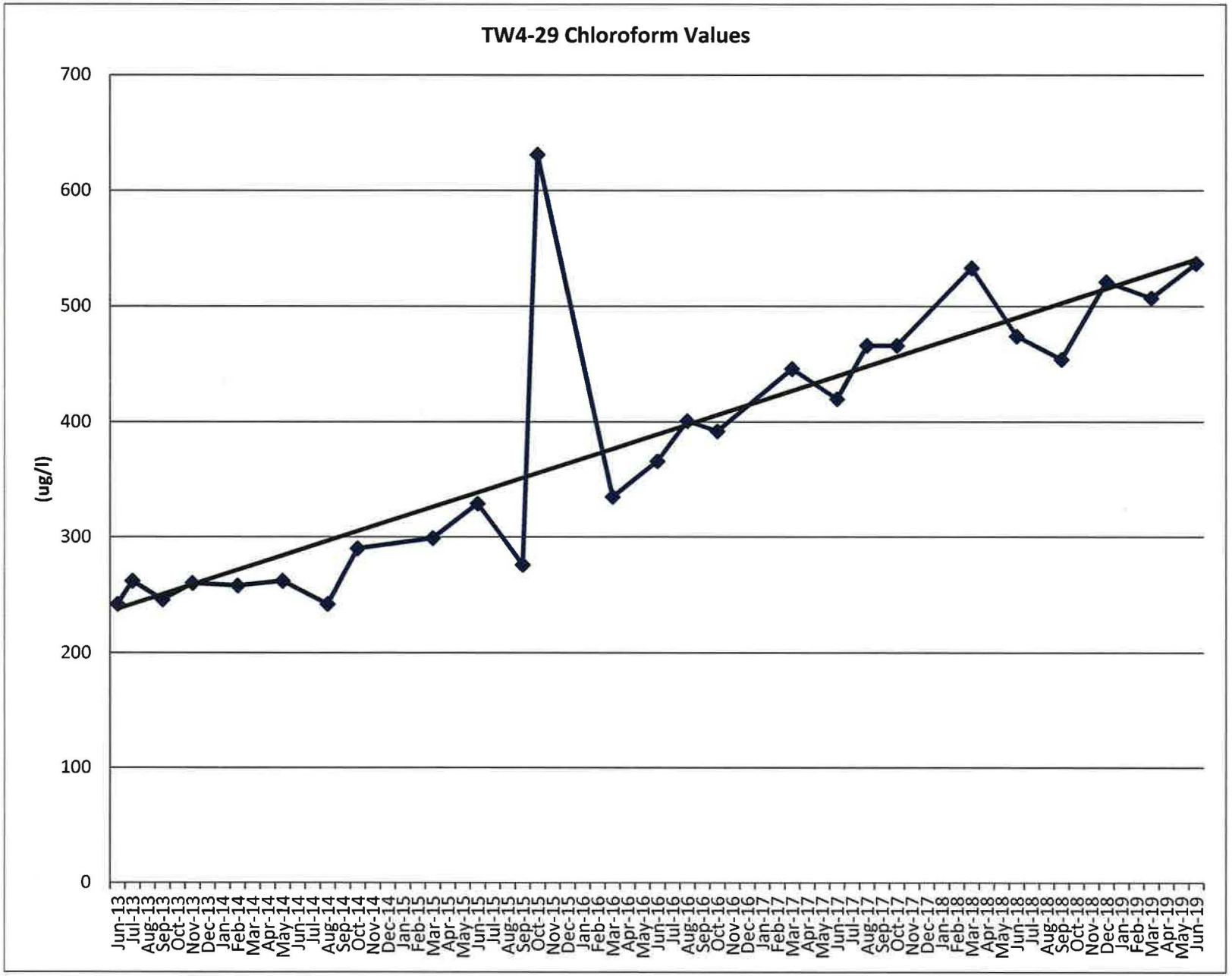
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19

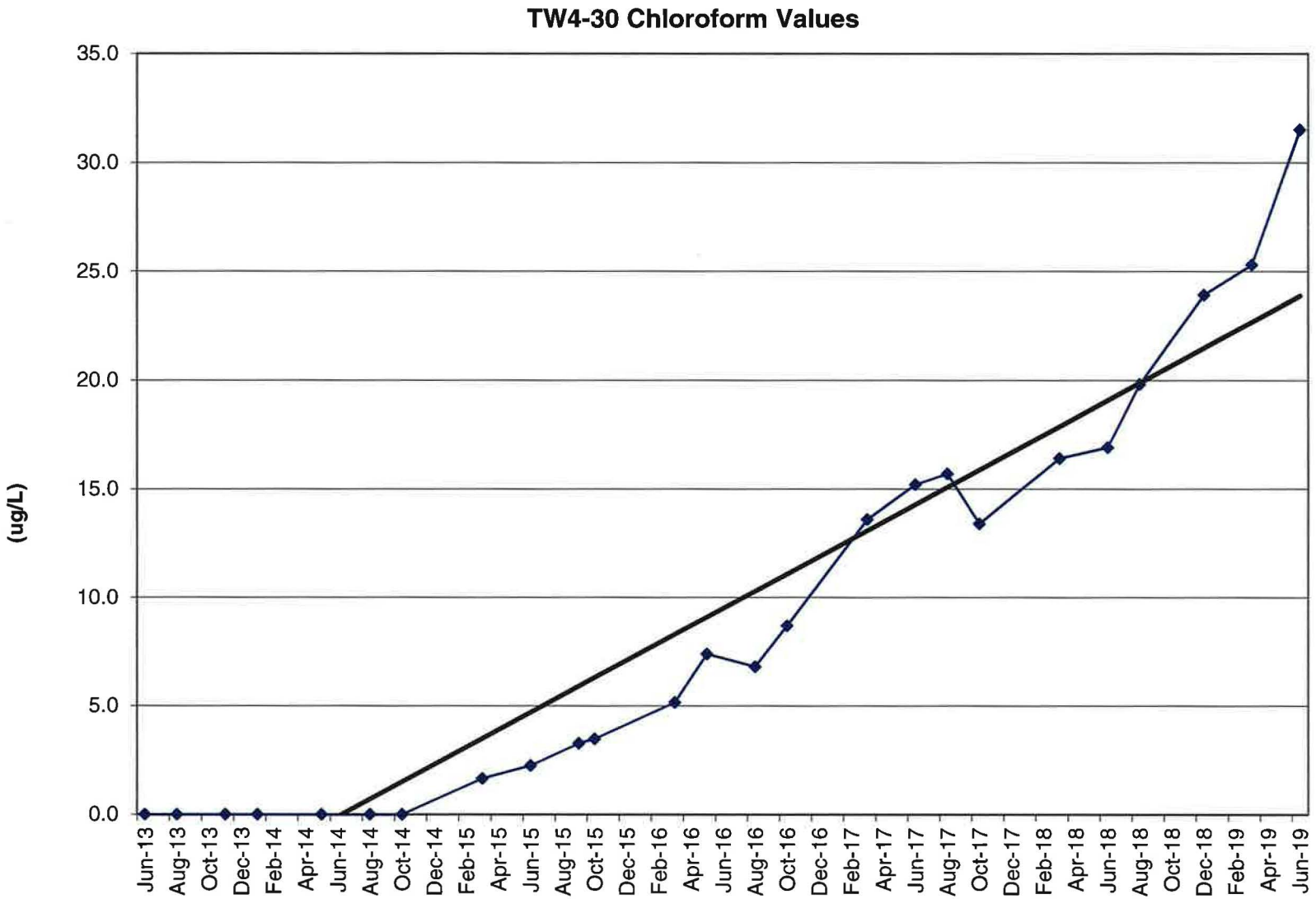
TW4-28	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	47.8
21-May-14	ND	ND	ND	ND	16.5	45.7
13-Aug-14	ND	ND	ND	ND	14.2	50
23-Oct-14	ND	ND	ND	ND	16.5	52.1
11-Mar-15	ND	ND	ND	ND	19	52.2
10-Jun-15	ND	ND	ND	ND	19	56.4
2-Sep-15	ND	ND	ND	ND	17.8	61.4
21-Oct-15	ND	ND	ND	ND	18.7	52.7
15-Mar-16	ND	ND	ND	ND	34.0	61.6
25-May-16	ND	ND	ND	ND	29.0	67.1
27-Jul-16	ND	ND	ND	ND	31.3	70.1
19-Oct-16	ND	ND	ND	ND	25.5	70.9
14-Mar-17	ND	ND	ND	ND	24.4	64.2
14-Jun-17	ND	ND	ND	ND	26.0	68.6
27-Jul-17	ND	ND	ND	ND	24.8	67.1
10-Oct-17	ND	ND	ND	ND	24.8	57.4
14-Mar-18	ND	ND	ND	ND	17.2	65.0
12-Jun-18	ND	ND	ND	ND	19.0	55.7
29-Aug-18	ND	ND	ND	ND	16.0	63.8
30-Nov-18	ND	ND	ND	ND	17.7	52.4
16-Mar-19	ND	ND	ND	ND	17.2	51.7
13-Jun-19	ND	ND	ND	ND	15.0	51.8


TW4-28 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-28
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17
Jun-17
Sep-17
Dec-17
Mar-18
Jun-18
Sep-18
Dec-18
Mar-19
Jun-19

TW4-29	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	242	ND	ND	ND	4.63	44.8
11-Jul-13	262	ND	ND	ND	3.52	37.7
26-Sep-13	246	ND	ND	ND	4.18	41.4
13-Nov-13	260	ND	ND	ND	4.11	42.5
5-Feb-14	258	ND	ND	ND	4.63	41.9
22-May-14	262	ND	ND	ND	3.52	38.2
27-Aug-14	242	ND	ND	ND	3.4	41
29-Oct-14	290	ND	ND	ND	3.64	41
12-Mar-15	299	ND	ND	ND	4.14	40.5
11-Jun-15	329	ND	ND	ND	2.95	42.5
3-Sep-15	276	ND	ND	ND	2.19	47.3
29-Oct-15	631	ND	ND	ND	2.74	39.8
17-Mar-16	335	ND	ND	ND	2.92	40.3
8-Jun-16	366	ND	ND	ND	2.51	42.9
4-Aug-16	401	ND	ND	ND	2.44	40.6
26-Oct-16	392	ND	ND	ND	2.4	44.2
16-Mar-17	446	ND	ND	ND	2.24	41.5
21-Jun-17	420	ND	ND	ND	2.26	42.0
4-Aug-17	466	ND	ND	ND	2.35	42.9
11-Oct-17	466	ND	ND	ND	2.45	37.7
21-Mar-18	533	ND	ND	ND	2.44	43.1
14-Jun-18	474	ND	ND	ND	2.67	40.1
5-Sep-18	454	ND	ND	ND	2.52	45.9
13-Dec-18	521	ND	ND	ND	2.50	40.9
20-Mar-19	507	ND	ND	ND	2.67	39.9
19-Jun-19	537	ND	ND	ND	2.56	39.4

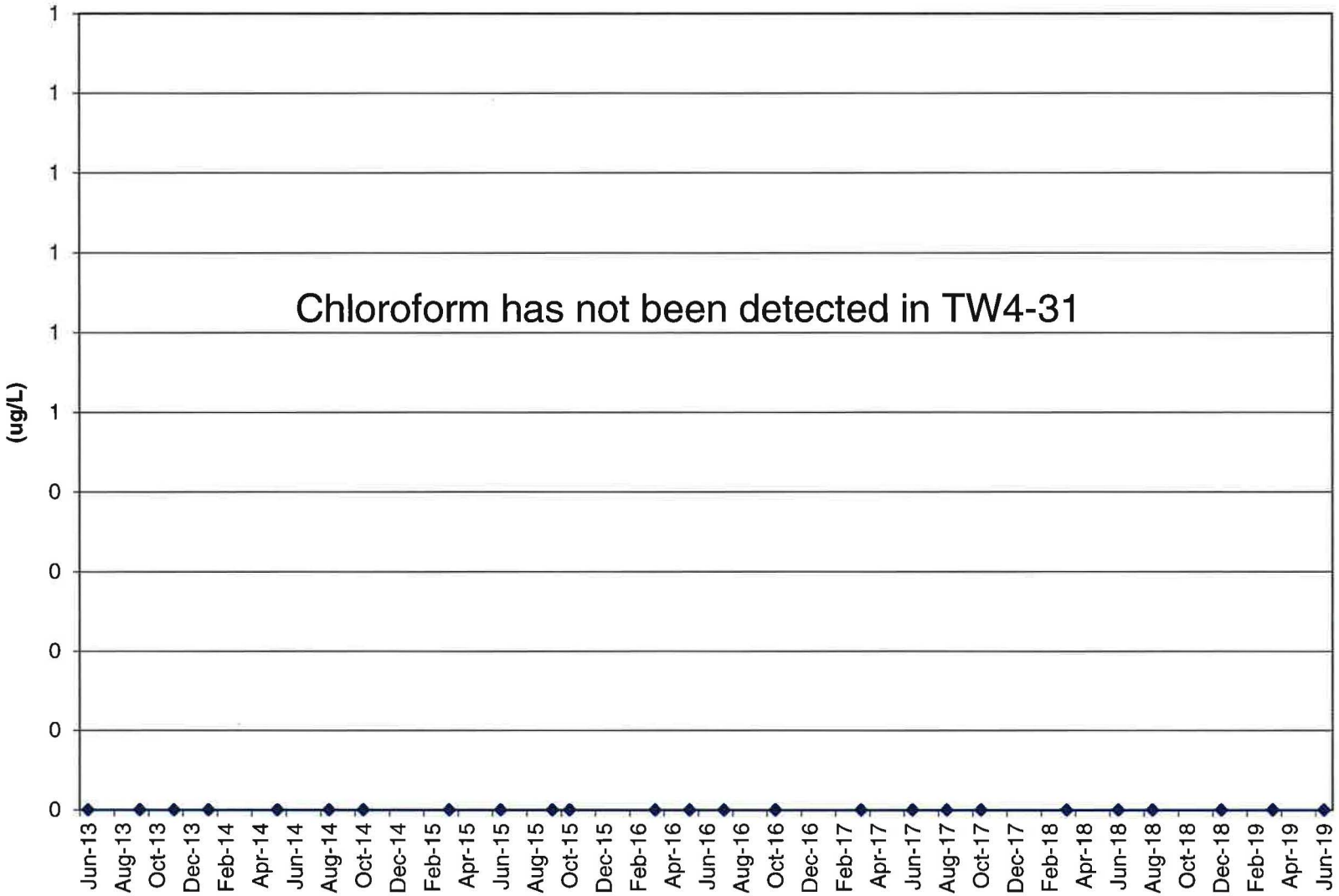

TW4-29 Chloroform Values
(ug/l)
700
600
500
400
300
200
100
0
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19

TW4-30	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	0.948	36
29-Aug-13	ND	ND	ND	ND	0.952	36.3
7-Nov-13	ND	ND	ND	ND	1.24	35.9
23-Jan-14	ND	ND	ND	ND	1.36	36
21-May-14	ND	ND	ND	ND	1.44	31.99
13-Aug-14	ND	ND	ND	ND	1.5	38
23-Oct-14	ND	ND	ND	ND	1.84	37.1
11-Mar-15	1.65	ND	ND	ND	2.15	38.3
10-Jun-15	2.25	ND	ND	ND	1.75	40.3
3-Sep-15	3.27	ND	ND	ND	1.75	44.2
28-Oct-15	3.48	ND	ND	ND	1.86	37.8
17-Mar-16	5.16	ND	ND	ND	2.74	39.6
26-May-16	7.38	ND	ND	ND	2.04	40.2
3-Aug-16	6.79	ND	ND	ND	2.32	38.6
20-Oct-16	8.69	ND	ND	ND	2.51	41.3
15-Mar-17	13.6	ND	ND	ND	2.7	37.7
15-Jun-17	15.2	ND	ND	ND	2.95	37.8
3-Aug-17	15.7	ND	ND	ND	3.11	39.8
10-Oct-17	13.4	ND	ND	ND	2.58	34.9
15-Mar-18	16.4	ND	ND	ND	3.63	41.0
13-Jun-18	16.9	ND	ND	ND	3.93	37.4
30-Aug-18	19.8	ND	ND	ND	3.79	44.1
12-Dec-18	23.9	ND	ND	ND	3.70	35.5
16-Mar-19	25.3	ND	ND	ND	4.08	35.9
13-Jun-19	31.5	ND	ND	ND	4.13	27.2


TW4-30 Chloroform Values
(ug/L)
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
Oct-14
Dec-14
Feb-15
Apr-15
Jun-15
Aug-15
Oct-15
Dec-15
Feb-16
Apr-16
Jun-16
Aug-16
Oct-16
Dec-16
Feb-17
Apr-17
Jun-17
Aug-17
Oct-17
Dec-17
Feb-18
Apr-18
Jun-18
Aug-18
Oct-18
Dec-18
Feb-19
Apr-19
Jun-19

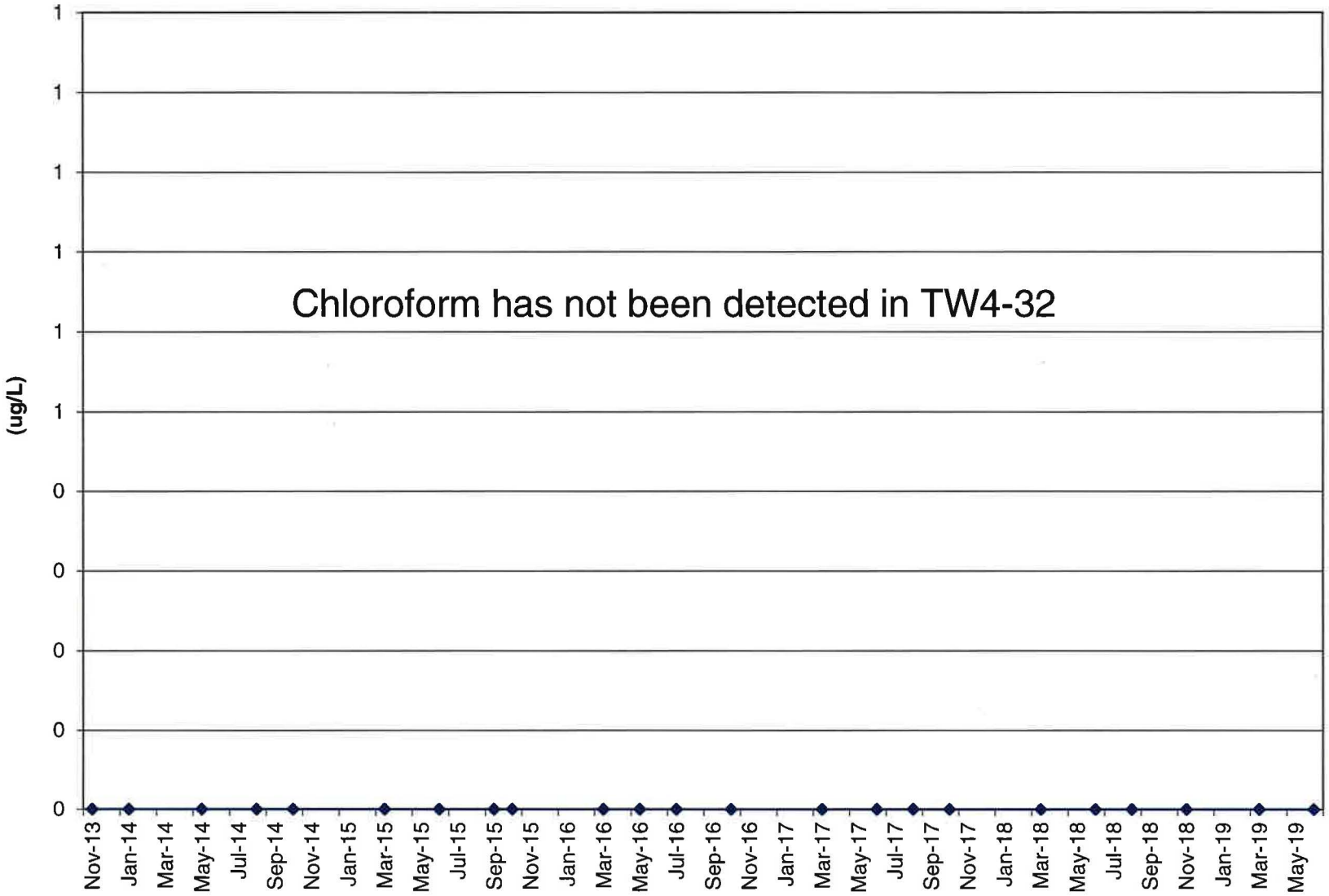
TW4-31	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	1.26	28.4
5-Sep-13	ND	ND	ND	ND	1.1	29.4
7-Nov-13	ND	ND	ND	ND	1.33	28
23-Jan-14	ND	ND	ND	ND	1.32	28.5
21-May-14	ND	ND	ND	ND	1.22	26.3
13-Aug-14	ND	ND	ND	ND	1.1	30
28-Oct-14	ND	ND	ND	ND	1.23	30
11-Mar-15	ND	ND	ND	ND	1.33	30.6
10-Jun-15	ND	ND	ND	ND	1.19	31.1
2-Sep-15	ND	ND	ND	ND	0.916	30.4
21-Oct-15	ND	ND	ND	ND	0.953	29.1
16-Mar-16	ND	ND	ND	ND	1.84	31.5
25-May-16	ND	ND	ND	ND	1.36	32.5
28-Jul-16	ND	ND	ND	ND	1.41	30.6
20-Oct-16	ND	ND	ND	ND	1.14	34.0
15-Mar-17	ND	ND	ND	ND	1.19	31.3
15-Jun-17	ND	ND	ND	ND	1.21	33.4
2-Aug-17	ND	ND	ND	ND	1.11	33.0
10-Oct-17	ND	ND	ND	ND	1.04	30.9
14-Mar-18	ND	ND	ND	ND	0.916	38.8
12-Jun-18	ND	ND	ND	ND	0.948	34.4
29-Aug-18	ND	ND	ND	ND	0.710	40.3
12-Dec-18	ND	ND	ND	ND	0.766	35.2
16-Mar-19	ND	ND	ND	ND	0.754	35.0
13-Jun-19	ND	ND	ND	ND	0.713	36.9

TW4-31 Chloroform Values



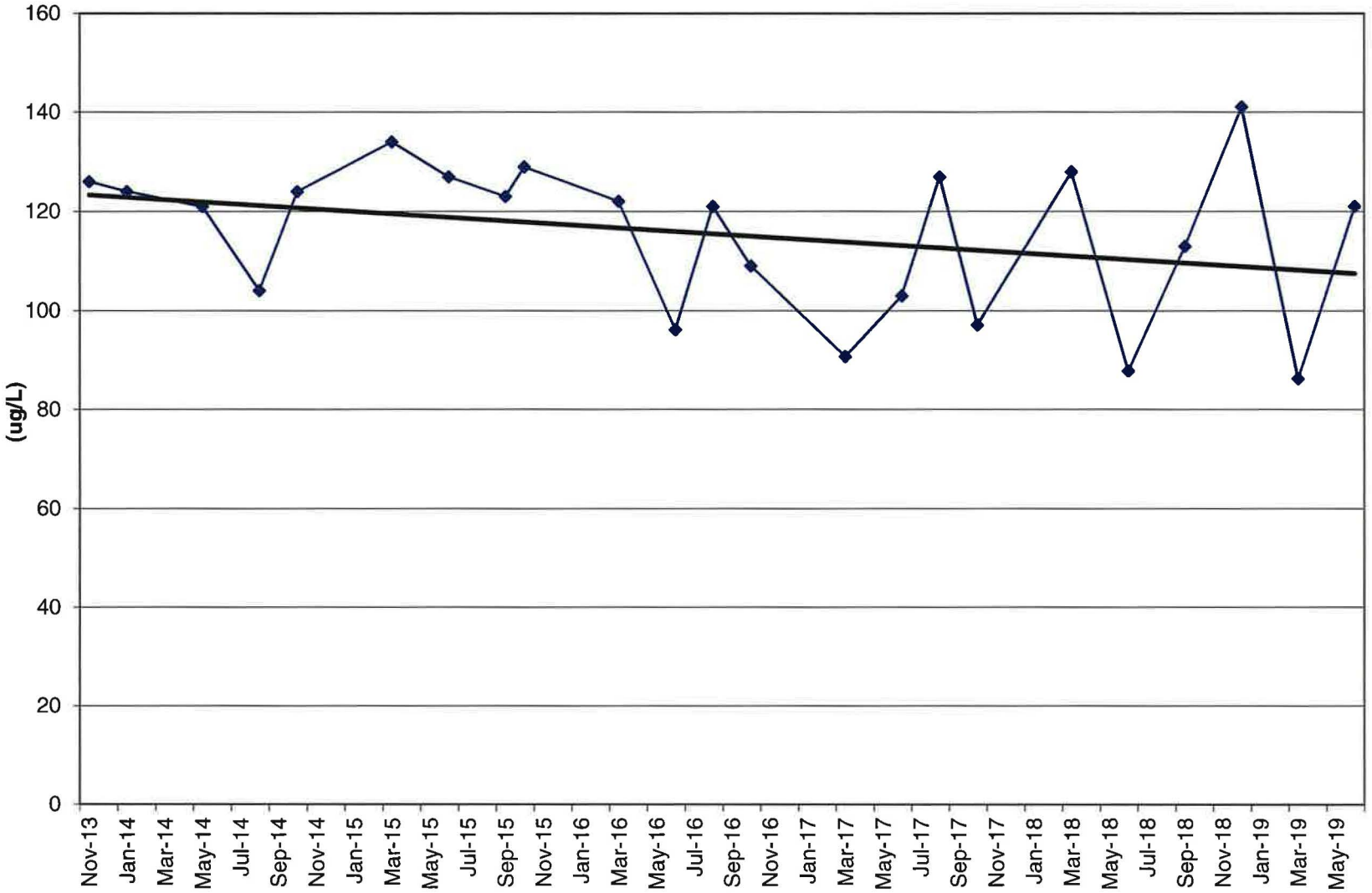
TW4-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	64
23-Oct-14	ND	ND	ND	ND	2.14	62.6
11-Mar-15	ND	ND	ND	ND	2.46	64.2
10-Jun-15	ND	ND	ND	ND	1.21	62.7
2-Sep-15	ND	ND	ND	ND	5.09	59.6
21-Oct-15	ND	ND	ND	ND	1.19	55.1
15-Mar-16	ND	ND	ND	ND	4.48	64.2
25-May-16	ND	ND	ND	ND	3.16	71.8
28-Jul-16	ND	ND	ND	ND	3.44	64.4
19-Oct-16	ND	ND	ND	ND	2.87	66.0
14-Mar-17	ND	ND	ND	ND	2.82	62.8
15-Jun-17	ND	ND	ND	ND	2.37	53.5
2-Aug-17	ND	ND	ND	ND	2.47	65.8
10-Oct-17	ND	ND	ND	ND	2.54	58.3
14-Mar-18	ND	ND	ND	ND	2.94	65.4
12-Jun-18	ND	ND	ND	ND	2.51	59.2
29-Aug-18	ND	ND	ND	ND	2.56	68.1
30-Nov-18	ND	ND	ND	ND	2.50	57.5
16-Mar-19	ND	ND	ND	ND	2.15	57.5
13-Jun-19	ND	ND	ND	ND	2.18	60.1

TW4-32 Chloroform Values



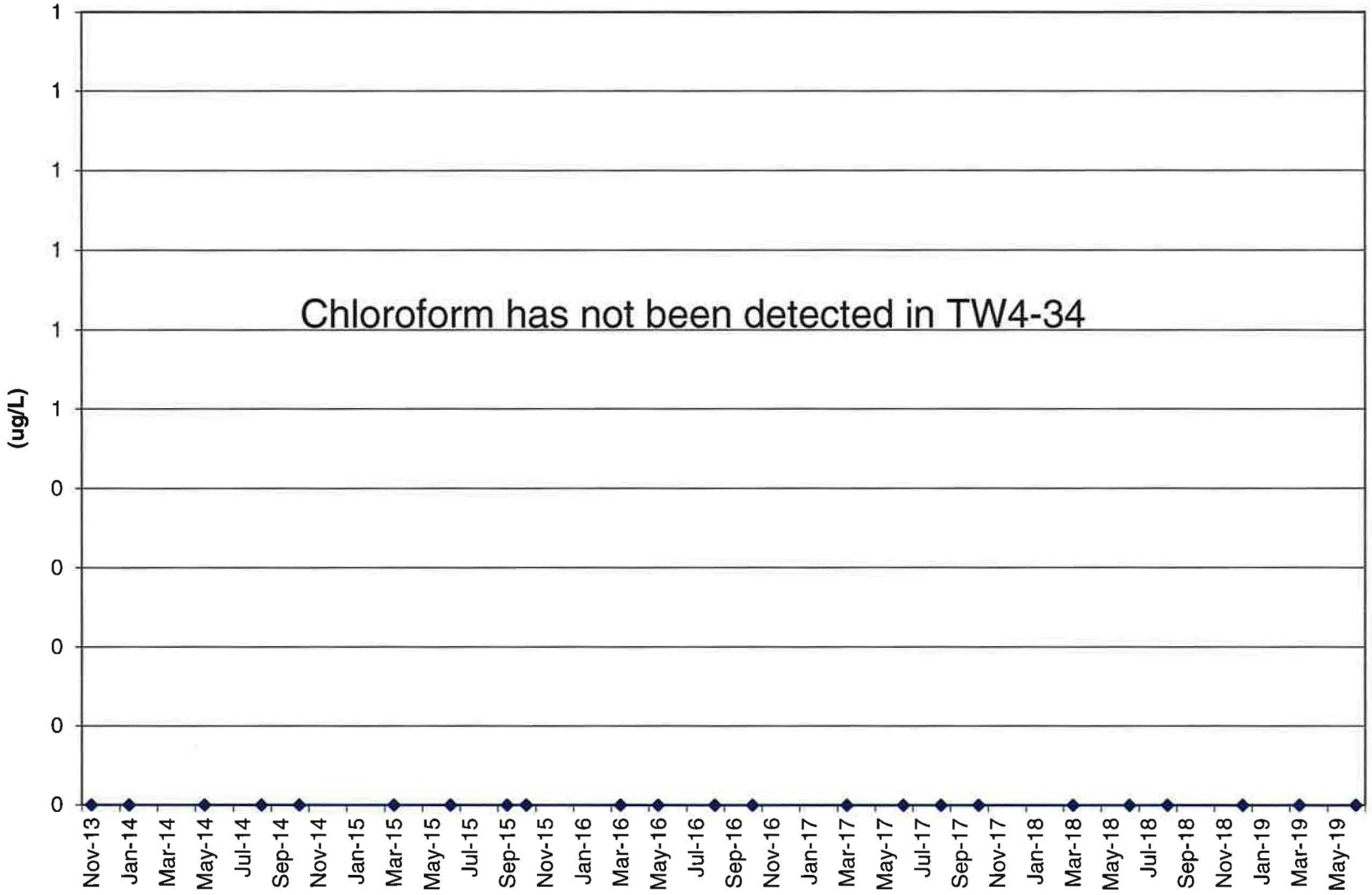
TW4-33	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	126	ND	ND	ND	1.82	47.2
30-Jan-14	124	ND	ND	ND	2.56	43.5
22-May-14	121	ND	ND	ND	1.63	46.8
27-Aug-14	104	ND	ND	ND	1.5	43
29-Oct-14	124	ND	ND	ND	2.22	44.2
12-Mar-15	134	ND	ND	ND	1.91	44.2
11-Jun-15	127	ND	ND	ND	1.62	46.4
3-Sep-15	123	ND	ND	ND	1.64	53.4
29-Oct-15	129	ND	ND	ND	1.92	44.5
17-Mar-16	122	ND	ND	ND	2.13	46.2
8-Jun-16	96	ND	ND	ND	2.06	49.7
4-Aug-16	121	ND	ND	ND	2.32	48.5
26-Oct-16	109	ND	ND	ND	2.36	52.4
16-Mar-17	91	ND	ND	ND	2.11	49.0
20-Jun-17	103	ND	ND	ND	2.34	49.2
3-Aug-17	127	ND	ND	ND	2.04	46.9
11-Oct-17	97.1	ND	ND	ND	2.09	42.5
15-Mar-18	128	ND	ND	ND	1.94	49.2
13-Jun-18	88	ND	ND	ND	2.13	44.0
5-Sep-18	113	ND	ND	ND	1.82	50.0
13-Dec-18	141	ND	ND	ND	2.01	43.2
20-Mar-19	86.2	ND	ND	ND	2.00	47.2
19-Jun-19	121	ND	ND	ND	2.16	43.4

TW4-33 Chloroform Values



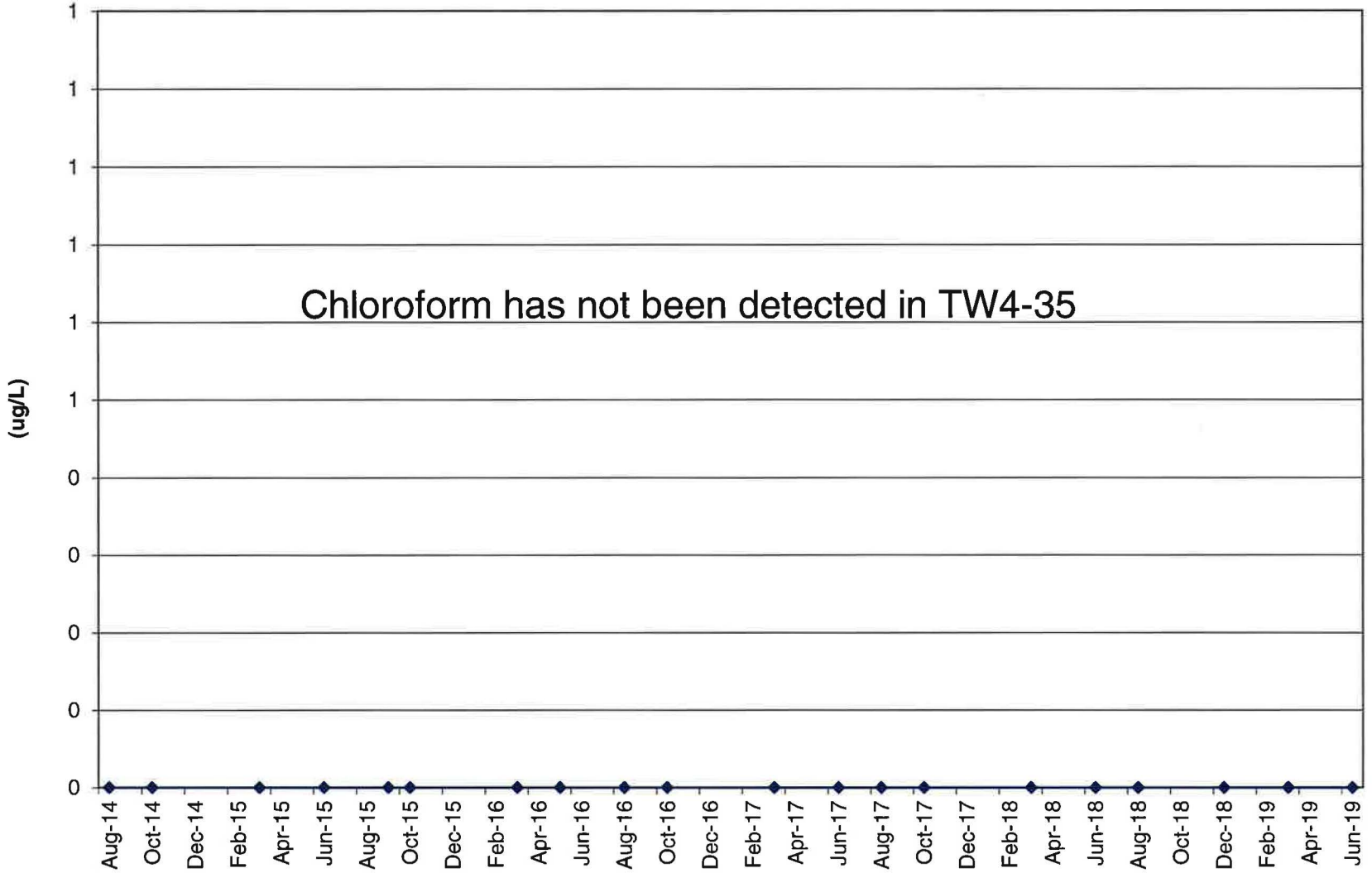
TW4-34	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	18
28-Oct-14	ND	ND	ND	ND	1.16	17.5
11-Mar-15	ND	ND	ND	ND	1.21	17.7
10-Jun-15	ND	ND	ND	ND	0.868	17.4
3-Sep-15	ND	ND	ND	ND	0.458	15.1
21-Oct-15	ND	ND	ND	ND	0.368	15.8
16-Mar-16	ND	ND	ND	ND	0.925	17.3
26-May-16	ND	ND	ND	ND	0.605	18
26-May-16	ND	ND	ND	ND	0.605	18
3-Aug-16	ND	ND	ND	ND	0.726	17.2
20-Oct-16	ND	ND	ND	ND	0.612	19.0
15-Mar-17	ND	ND	ND	ND	0.674	18.0
15-Jun-17	ND	ND	ND	ND	0.727	15.7
2-Aug-17	ND	ND	ND	ND	0.733	19.8
10-Oct-17	ND	ND	ND	ND	0.774	18.5
14-Mar-18	ND	ND	ND	ND	0.737	19.1
13-Jun-18	ND	ND	ND	ND	0.877	19.5
29-Aug-18	ND	ND	ND	ND	0.736	23.8
12-Dec-18	ND	ND	ND	ND	0.889	18.5
16-Mar-19	ND	ND	ND	ND	0.859	17.9
13-Jun-19	ND	ND	ND	ND	0.994	20.1

TW4-34 Chloroform Values



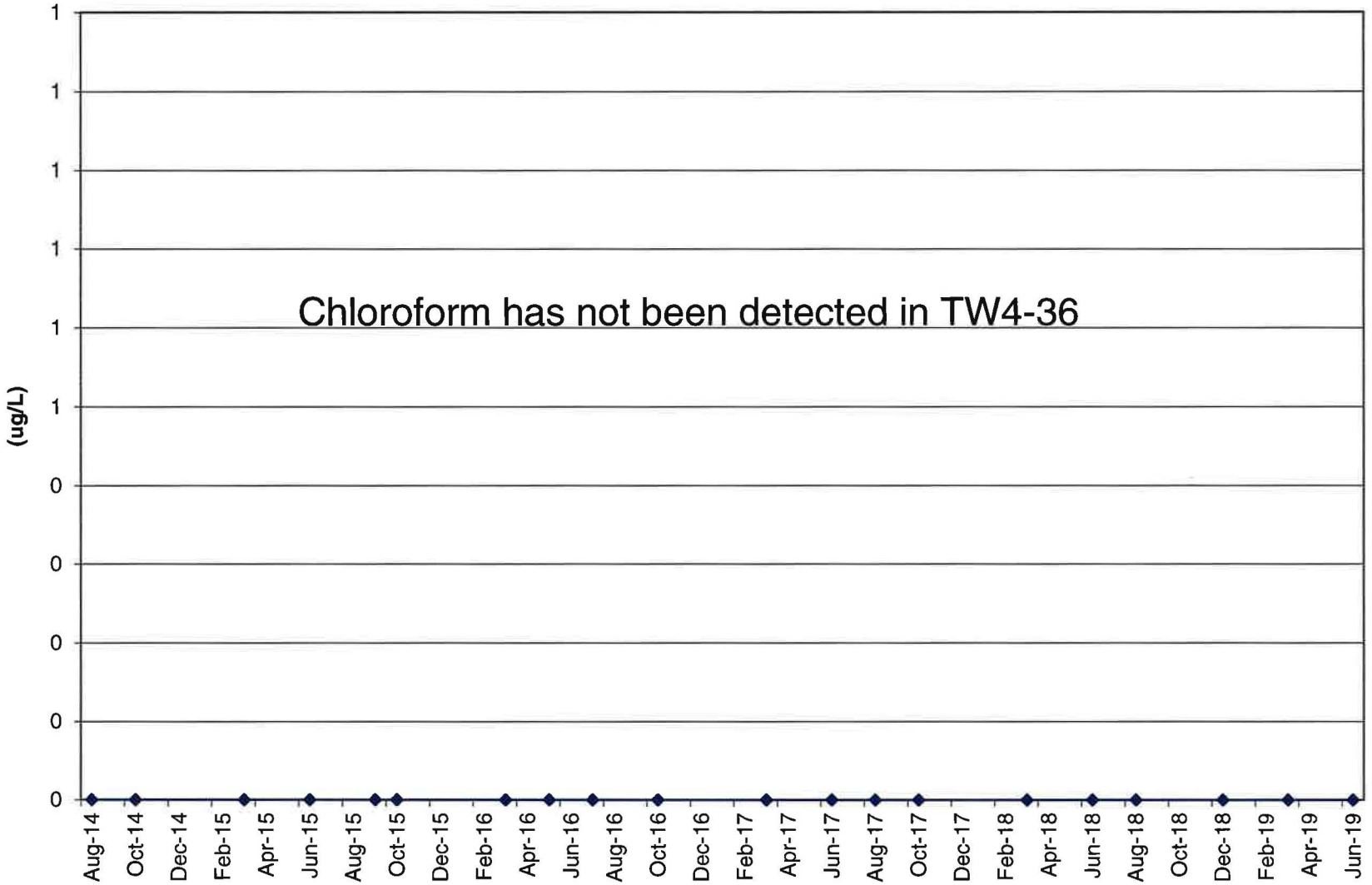
TW4-35	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9
28-Oct-15	ND	ND	ND	ND	0.419	33.4
16-Mar-16	ND	ND	ND	ND	0.521	35.4
26-May-16	ND	ND	ND	ND	0.631	35.4
3-Aug-16	ND	ND	ND	ND	0.723	34.8
20-Oct-16	ND	ND	ND	ND	0.626	37.1
15-Mar-17	ND	ND	ND	ND	0.673	33.7
15-Jun-17	ND	ND	ND	ND	0.699	34.8
2-Aug-17	ND	ND	ND	ND	0.670	36.3
10-Oct-17	ND	ND	ND	ND	0.651	31.7
14-Mar-18	ND	ND	ND	ND	0.740	37.4
13-Jun-18	ND	ND	ND	ND	0.662	33.7
30-Aug-18	ND	ND	ND	ND	0.527	39.3
12-Dec-18	ND	ND	ND	ND	0.559	43.0
16-Mar-19	ND	ND	ND	ND	0.574	33.5
13-Jun-19	ND	ND	ND	ND	0.670	35.5

TW4-35 Chloroform Values



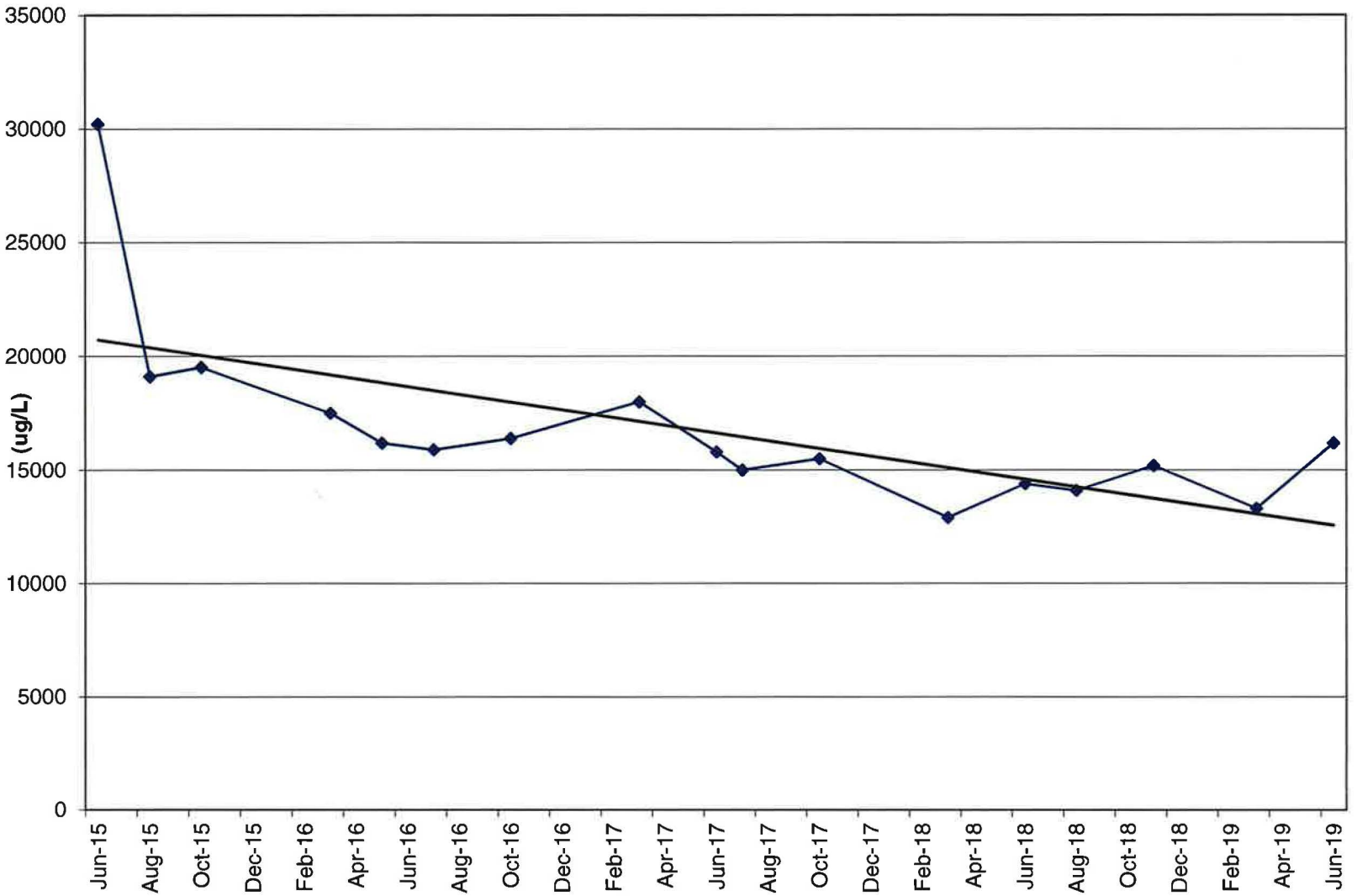
TW4-36	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4
21-Oct-15	ND	ND	ND	ND	ND	64.5
16-Mar-16	ND	ND	ND	ND	ND	67.1
25-May-16	ND	ND	ND	ND	ND	72.3
27-Jul-16	ND	ND	ND	ND	ND	69.4
20-Oct-16	ND	ND	ND	ND	ND	73.8
15-Mar-17	ND	ND	ND	ND	ND	60.2
15-Jun-17	ND	ND	ND	ND	ND	71.3
2-Aug-17	ND	ND	ND	ND	ND	69.6
10-Oct-17	ND	ND	ND	ND	0.104	62.9
14-Mar-18	ND	ND	ND	ND	ND	73.8
12-Jun-18	ND	ND	ND	ND	ND	64.3
29-Aug-18	ND	ND	ND	ND	ND	76.4
12-Dec-18	ND	ND	ND	ND	0.123	65.8
16-Mar-19	ND	ND	ND	ND	0.116	65.0
13-Jun-19	ND	ND	ND	ND	ND	71.5

TW4-36 Chloroform Values



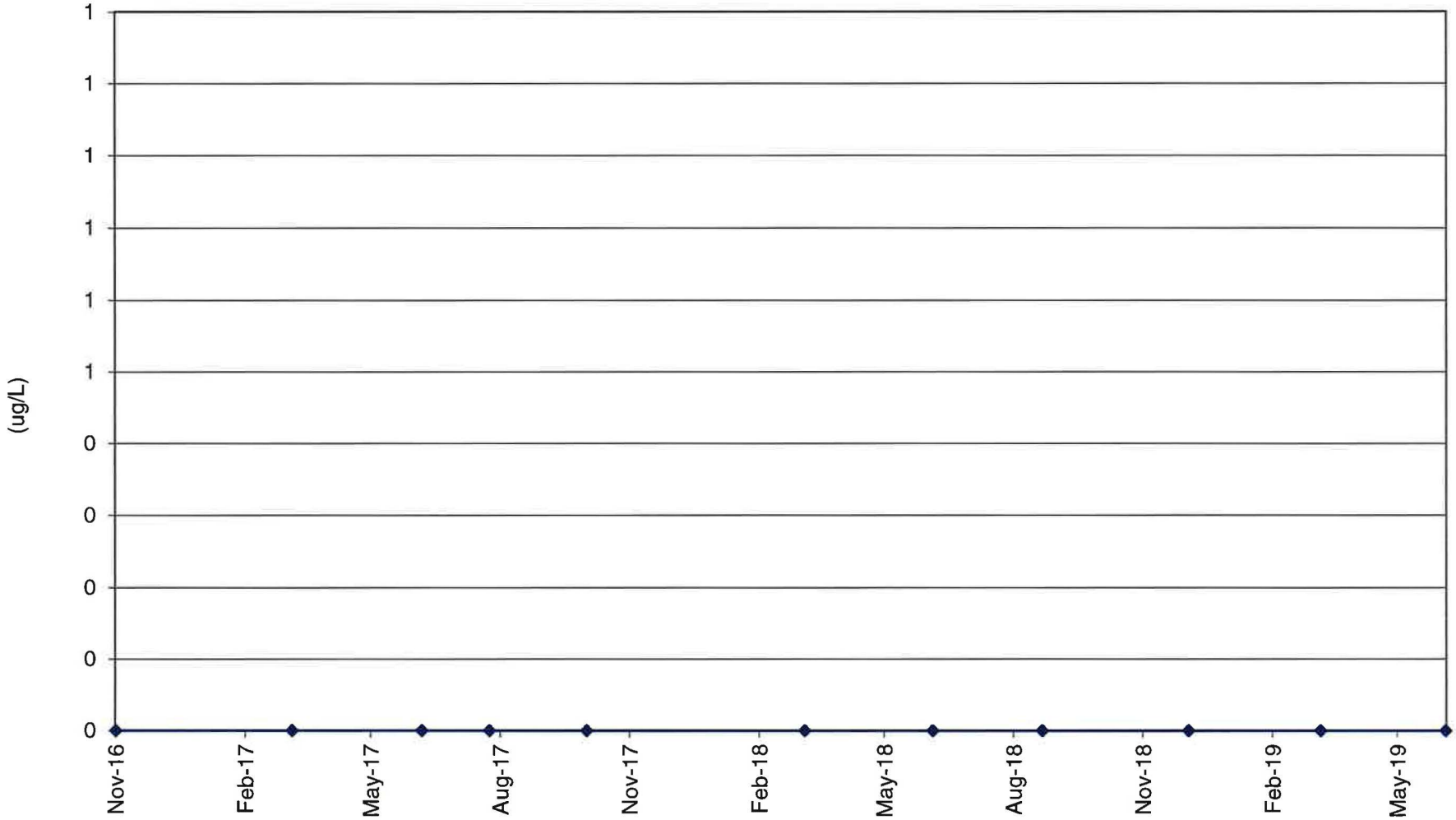
TW4-37	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Jun-15	30200	18	16	2	35	345
31-Aug-15	19100	17	14	1.04	32	374
19-Oct-15	19500	13	9	1.17	35	399
9-Mar-16	17500	16	4	1.34	28.4	332
23-May-16	16200	14	ND	1.17	27.9	389
25-Jul-16	15900	17	ND	ND	33.4	294
12-Oct-16	16400	16	ND	ND	26.1	304
8-Mar-17	18000	15	ND	ND	32.3	305
13-Jun-17	15800	16	ND	ND	31.2	281
26-Jul-17	15000	15.1	ND	ND	30.5	277
11-Oct-17	15500	12.6	2.47	ND	30.6	255
12-Mar-18	12900	12.8	1.14	ND	30.0	263
8-Jun-18	14400	10.6	ND	ND	28.6	275
22-Aug-18	14100	12.1	6.20	ND	25.4	387
28-Nov-18	15200	11.3	19.8	ND	27.3	264
8-Mar-19	13300	13.8	1.2	ND	30.1	209
5-Jun-19	16200	14.6	ND	ND	31.2	250

TW4-37 Chloroform Values

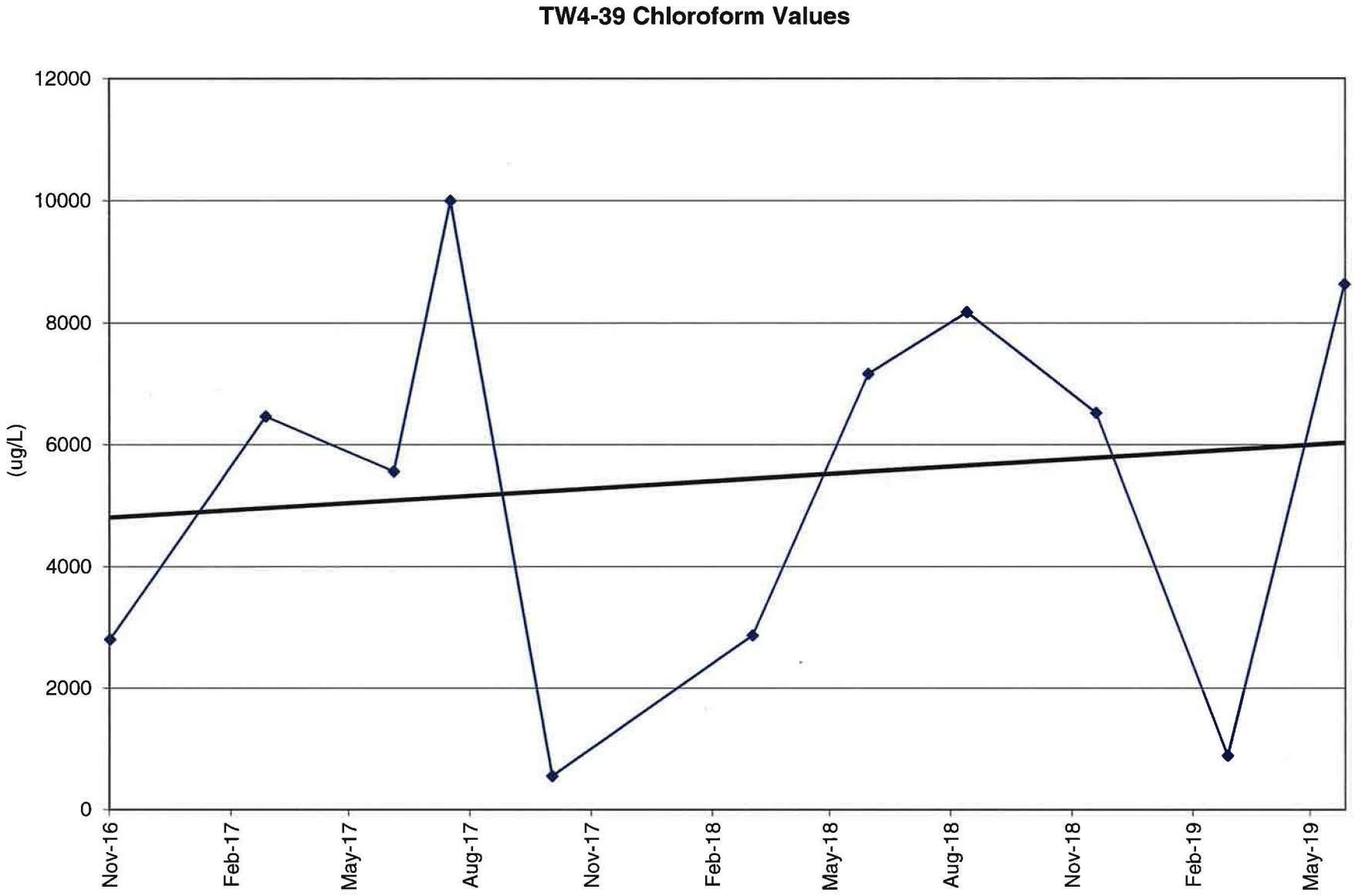


TW4-38	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	ND	ND	ND	ND	11.2	40.0
15-Mar-17	ND	ND	ND	ND	10.6	35.7
15-Jun-17	ND	ND	ND	ND	10.8	36.2
2-Aug-17	ND	ND	ND	ND	10.1	36.9
10-Oct-17	ND	ND	ND	ND	10.3	31.3
14-Mar-18	ND	ND	ND	ND	9.34	36.5
13-Jun-18	ND	ND	ND	ND	9.48	33.1
30-Aug-18	ND	ND	ND	ND	7.77	39.2
12-Dec-18	ND	ND	ND	ND	8.48	35.0
16-Mar-19	ND	ND	ND	ND	8.96	33.5
13-Jun-19	ND	ND	ND	ND	8.53	33.7

TW4-38 Chloroform Values

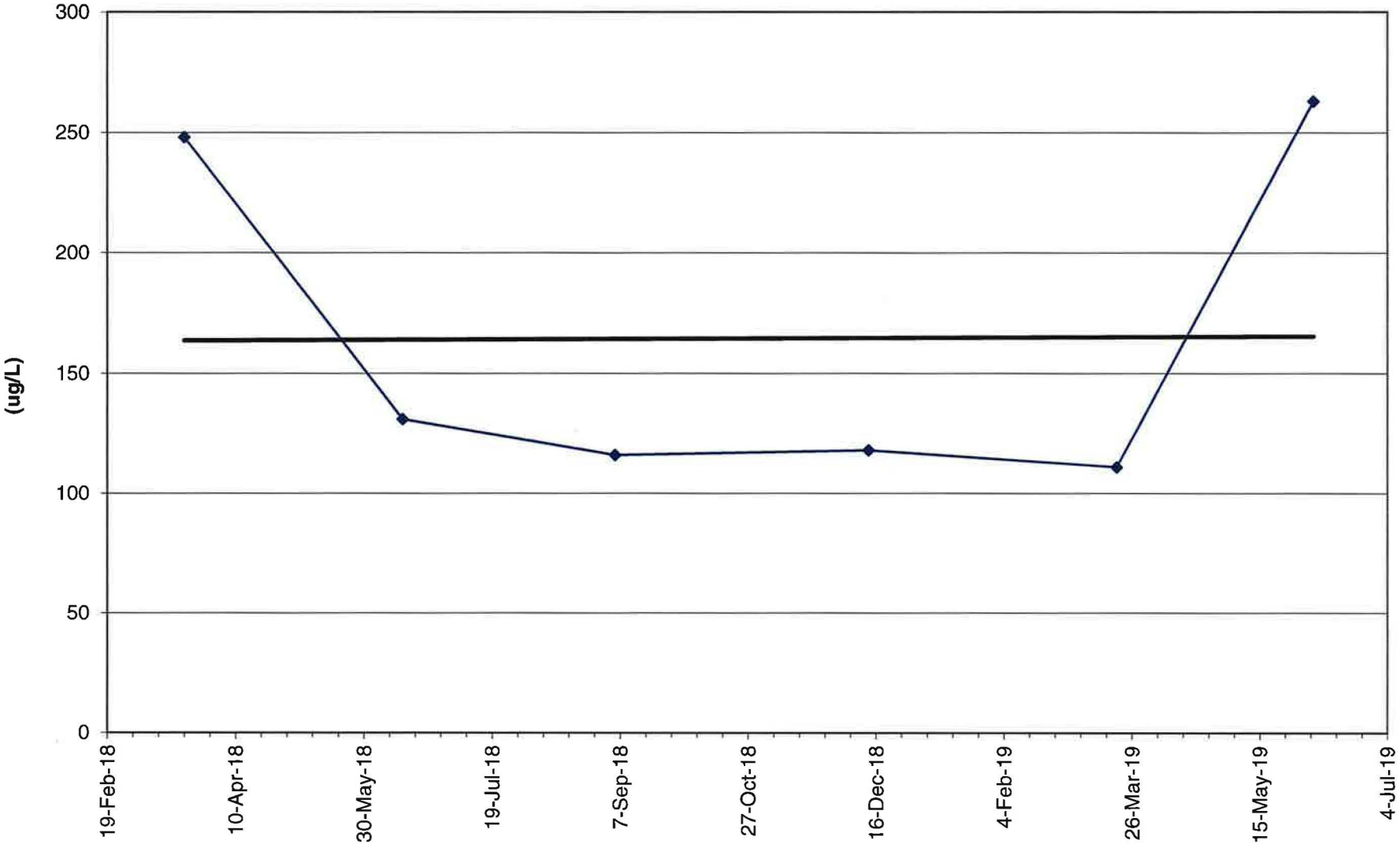


TW4-39	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	2800	ND	ND	ND	20.7	68.9
8-Mar-17	6460	8.15	ND	1.35	6.44	130
13-Jun-17	5560	8.20	ND	1.31	6.25	120
26-Jul-17	10000	14.40	ND	1.50	7.74	132
11-Oct-17	552	ND	ND	ND	2.65	73.5
12-Mar-18	2870	3.10	ND	ND	3.33	118
8-Jun-18	7160	7.94	ND	ND	4.84	107
22-Aug-18	8180	12.50	2.33	ND	6.05	110
28-Nov-18	6520	6.08	ND	ND	6.39	123
8-Mar-19	885	1.20	ND	ND	2.08	49.0
5-Jun-19	8640	11.60	ND	ND	8.45	114.0


TW4-39 Chloroform Values
12000
10000
8000
6000
4000
2000
0
(ug/L)
Nov-16
Feb-17
May-17
Aug-17
Nov-17
Feb-18
May-18
Aug-18
Nov-18
Feb-19
May-19

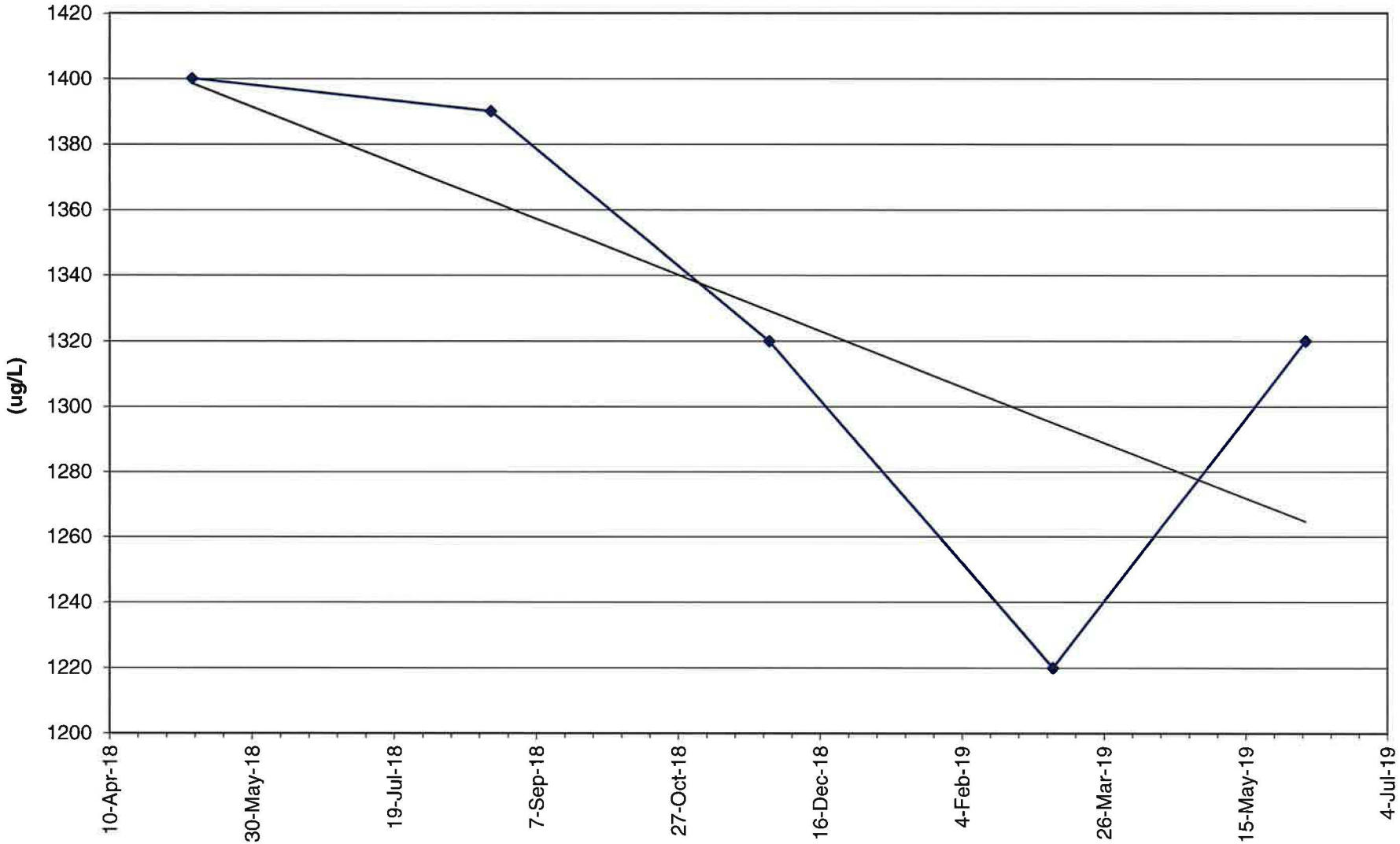
TW4-40	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Mar-18	248	ND	ND	ND	3.08	35.7
14-Jun-18	131	ND	ND	ND	3.33	31.6
5-Sep-18	116	ND	ND	ND	3.22	37.6
13-Dec-18	118	ND	ND	ND	3.54	29.9
20-Mar-19	111	ND	ND	ND	3.18	30.9
5-Jun-19	263	ND	ND	ND	3.55	35.6

TW4-40 Chloroform Values

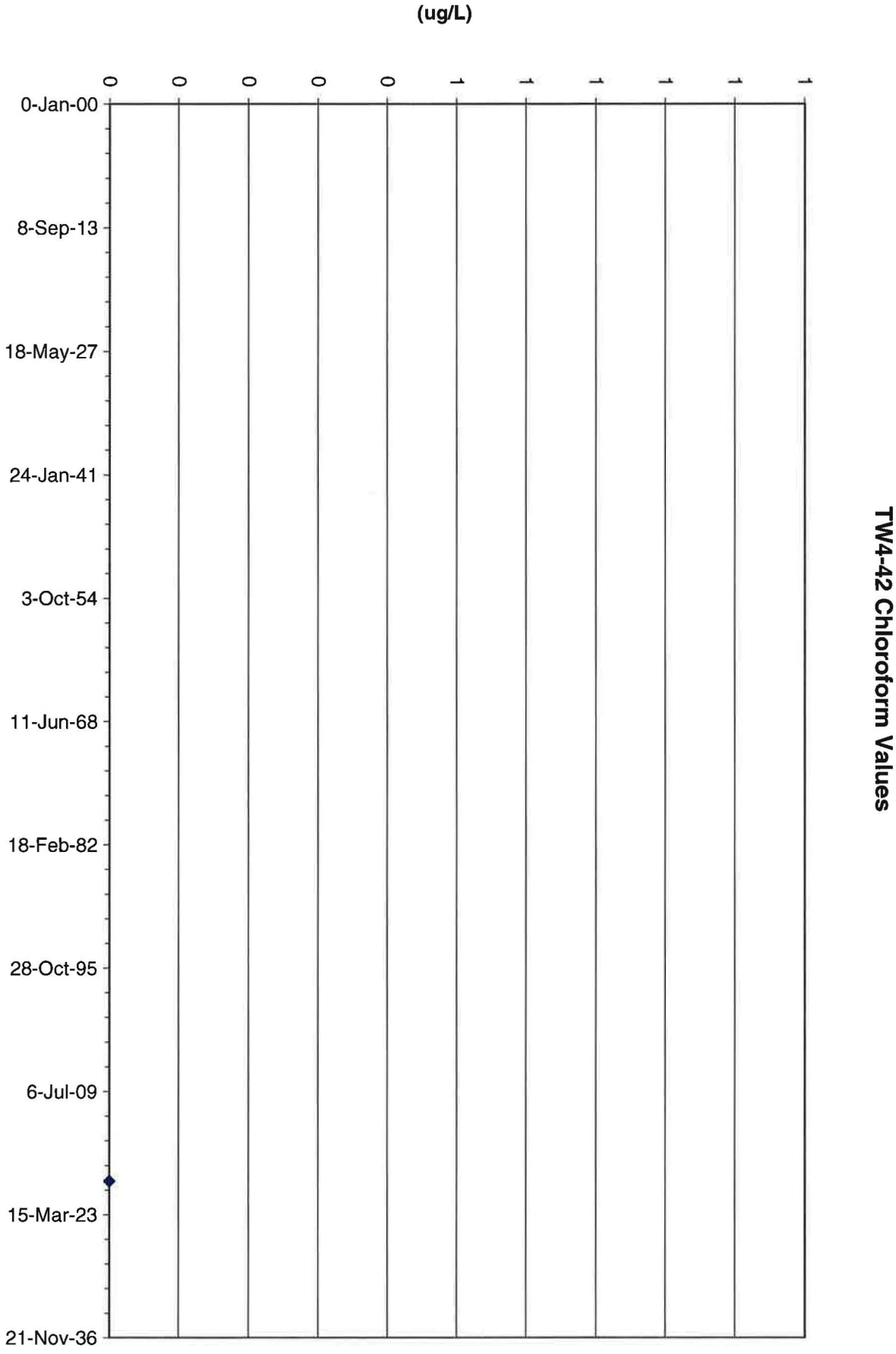


TW4-41	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
9-May-18	1400	ND	ND	ND	6.54	42.8
22-Aug-18	1390	ND	ND	ND	6.13	45.5
28-Nov-18	1320	ND	ND	ND	6.02	41.4
8-Mar-19	1220	ND	ND	ND	6.71	39.1
5-Jun-19	1320	ND	ND	ND	6.00	38.9

TW4-41 Chloroform Values



TW4-42	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-19	ND	ND	ND	ND	2.57	23.3


(ug/L)
0
0
0
0
0
1
1
1
1
1
1
0-Jan-00
8-Sep-13
18-May-27
24-Jan-41
3-Oct-54
11-Jun-68
18-Feb-82
28-Oct-95
6-Jul-09
15-Mar-23
21-Nov-36
TW4-42 Chloroform Values

Tab L

Contour Map Based Chloroform Plume Mass Calculations and Data over Time

CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:

Chloroform Data File: CHL_SurferInput_Q2_19.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, may y (UTMN[m]):** 4154240, 4155550.64
4) **grid spacing in x, y (m):** 15.24, 15.24
5) **artificial or pseudo-data:** none
6) **Q1, 2019 (previous quarter) data used at wells:** none

Chloroform residual mass estimate kriged grid files (ascii format):

Ucm2Q19wl.grd: second quarter, 2019 Water Level Grid (ft amsl)

Ucm2Q19bb.grd: second quarter, 2019 Aquifer Base Grid (ft amsl)

Ucm2Q19sat.grd: second quarter, 2019 Saturated Thickness Grid (ft)

Ucm2Q19logchl.grd: second quarter, 2019 log of chloroform grid (log of ug/L)

Ucm2Q19chl.grd: second quarter, 2019 Chloroform Concentration Grid (ug/L)

Ucm2Q19ge70.grd: second quarter, 2019 Chloroform Concentration GE 70 Grid (ug/L)

Ucm2Q19volm3.grd: second quarter, 2019 Groundwater Volume Grid (m^3)

Ucm2Q19masslb.grd: second quarter, 2019 Chloroform Plume Mass Grid (lb)

Chloroform residual mass estimate kriged grid XYZ files (ascii format):

Ucm2Q19wl.dat: second quarter, 2019 Water Level Grid XYZ file (ft amsl)

Ucm2Q19bb.dat: second quarter, 2019 top of Aquifer Base Grid XYZ file (ft amsl)

Ucm2Q19sat.dat: second quarter, 2019 Saturated Thickness Grid XYZ file (ft)

Ucm2Q19logchl.dat: second quarter, 2019 log of chloroform grid XYZ file (log of ug/L)

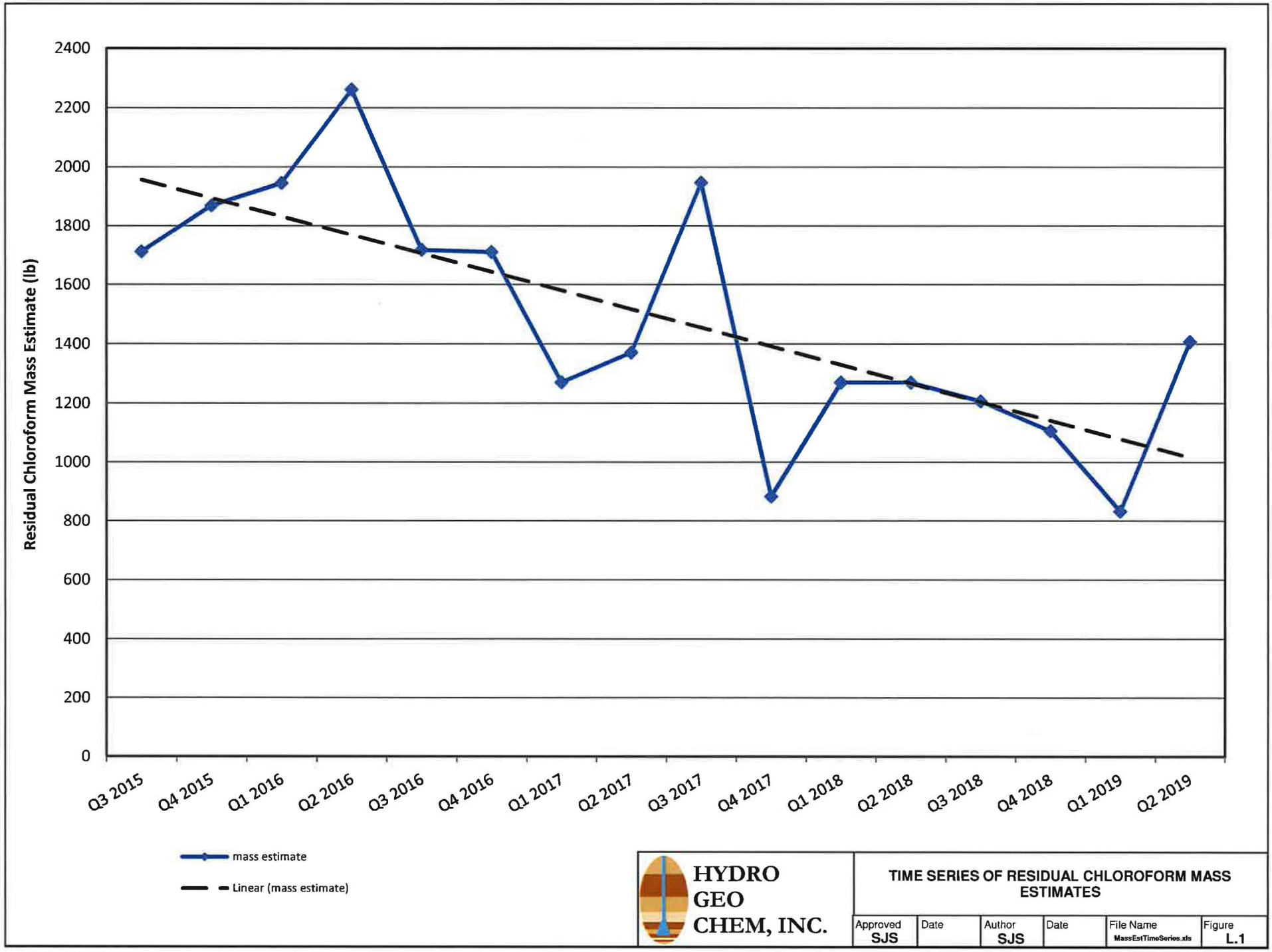
Ucm2Q19chl.dat: second quarter, 2019 Chloroform Concentration Grid XYZ file (ug/L)

Ucm2Q19ge70.dat: second quarter, 2019 Chloroform Concentration GE 70 Grid (ug/L) XYZ file

Ucm2Q19volm3.dat: second quarter, 2019 Groundwater Volume Grid XYZ file (m^3)

Ucm2Q19masslb.dat: second quarter, 2019 Chloroform Plume Mass Grid XYZ file (lb)

Chloroform plume mass estimate file: Ucm2Q19result.xls



HYDRO GEO CHEM, INC.

TIME SERIES OF RESIDUAL CHLOROFORM MASS ESTIMATES

Approved	Date	Author	Date	File Name	Figure
SJS		SJS		MassEstTimeSeries.xls	L.1

H:\718000\aug19\chloroform\masscalc\FL.1_resid_chl_mass_2Q19.xls: FL.1 Resid CHL Mass

TABLE L.1
Chloroform Plume Residual Mass
Since Third Quarter 2015

Quarter	Residual Plume Mass (lbs)
Q3 15	1712
Q4 15	1869
Q1 16	1946
Q2 16	2261
Q3 16	1718
Q4 16	1711
Q1 17	1271
Q2 17	1372
Q3 17	1948
Q4 17	884
Q1 18	1271
Q2 18	1271
Q3 18	1208
Q4 18	1107
Q1 19	833
Q2 19	1408

Notes:
lbs = pounds

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Thursday, August 15, 2019 4:04 PM
To: Phillip Goble
Cc: Dean Henderson; David Frydenlund; Terry Slade; Scott Bakken; Logan Shumway; Paul Goranson
Subject: Transmittal of CSV Files White Mesa Mill 2019 Q2 Chloroform Monitoring
Attachments: 1906140-report-EDD-rev1.csv; 1906386-report-EDD-rev1.csv; 1906517-report-EDD.csv; Q2 2019 Chloroform Field Data.csv; Q2 2019 DTWs - All Programs.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 second quarter of 2019, 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

Energy Fuels Resources (USA) Inc.

Kathy Weinel
Quality Assurance Manager

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

http://www.energyfuels.com

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Tab N

Exceedance Notices for the Reporting Period

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