ADDENDUM

Background Groundwater Quality Report: New Wells For Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah

Prepared for:

Denison Mines (USA) Corp.
Independence Plaza, Suite 950
1050 Seventeenth Street
Denver, CO 80265

Prepared by:

6000 Uptown Boulevard, Suite 100
Albuquerque, New Mexico 87110

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EXECUTIVE SUMMARY

Denison Mines (USA) Corp.'s (DUSA's) White Mesa Uranium Mill (the Mill) is located approximately 6 miles south of Blanding, Utah. Licensed by the U.S. Nuclear Regulatory Commission (NRC) in 1980, the Mill has processed over 4 million tons of conventionally mined and alternate feed uranium ores for the recovery of over 25 million pounds of U_3O_8 and 34 million pounds of vanadium to date.

In August 2004, Utah became an Agreement State for uranium mills and, as a result, became the primary regulator of the Mill. In March 2005, the Utah Department of Environmental Quality (UDEQ) issued Groundwater Discharge Permit No. UGW370004 (GWDP) for the Mill, which is intended to tailor the state's groundwater protection program to the Mill facility.

At the time of issuance of the GWDP, there were thirteen groundwater monitoring wells at the site that were incorporated into the groundwater monitoring system under the GWDP. These are wells MW-1, MW-2, MW-3, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-26 and MW-32 (the existing wells). As required under Part I.H.1 of the GWDP, DUSA installed nine new monitoring wells in the first quarter of 2005. These are wells MW-3A, MW-23, MW-24, MW-25, MW-27, MW-28, MW-29, MW-30 and MW-31 (the new wells). All GWDP monitor wells are screened in a zone of perched groundwater in the Burro Canyon Formation which is the uppermost occurrence of groundwater beneath the site. See Figure 1 for the locations of these wells.

While background groundwater quality at the Mill site had been established prior to commencement of operations and accepted by NRC, UDEQ has required, in Parts I.H.3 and I.H.4 of the GWDP, that DUSA re-evaluate established background for existing parameters in existing wells and establish background for new parameters in existing wells and for all parameters in new wells. Accordingly, on January 1, 2007 DUSA submitted to the Executive Secretary of the Utah Radiation Control Board (the Executive Secretary) the *Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan County, Utah*, (Background Report) which evaluated all available historic groundwater monitoring data (both pre-operational and post commencement of operations at the Mill) for existing wells, as required under Part I.H.3 of the GWDP.

In order to supplement the Background Report, in April, 2007, DUSA also submitted to the Executive Secretary the *Addendum: Evaluation of Available Pre-Operational and Regional Background Data* (April 2007 Addendum) which focused on pre-operational and regional

groundwater data in order to develop the best available set of background data for the site that could not conceivably have been influenced by Mill operations.

This Report is being submitted to the Executive Secretary as required by Part I.H.4 of the GWDP. The purpose of this report is to analyze the first eight quarters of data collected from the new monitoring wells, which were installed in 2005, to determine background concentrations for constituents in each well. The analysis of these wells will also include an investigation of whether these wells have been impacted by operations at the Mill. This report should also be considered an addendum to the Background Report, and incorporates by reference the provisions of the Background Report that apply to the site generally.

The Background Report concluded that:

- There are a number of exceedances of State Groundwater Quality Standards ("GWQSs") in both upgradient and far-downgradient monitoring wells; therefore exceedances of GWQSs in monitoring wells nearer to the site itself are consistent with natural background;

- There are numerous cases of both increasing and decreasing trends in constituents in upgradient, far downgradient and Mill site wells, which provide evidence that there are natural forces at work that are impacting groundwater quality across the entire site;

- In almost all cases where there are increasing trends in constituents in wells at the site, there are more pronounced increasing trends in those constituents in upgradient wells. Furthermore, and more importantly, in no case is there any evidence in the wells in question of increasing trends in indicator parameters, such as chloride or fluoride, which are considered the most mobile and best indicators of potential tailings cell leakage at the site.

As a result, we concluded in the Background Report, that, after extensive analysis of the data, there have been no impacts to groundwater from Mill activities.

The analysis conducted in the April 2007 Addendum supported this conclusion. In the April 2007 Addendum, we concluded that:

- With few exceptions (uranium in MW-14, selenium in MW-15 and fluoride in upgradient MW-19), all of the current results for existing wells fall within the range of background results. However, while these three exceptions set new highs in concentrations for those

constituents (one of them upgradient), they do fall within the range of variability established by background. In other words, given this natural variability across the site and region, with the addition of nine new wells to the other background wells and sources, it is not unexpected that three of the 8 constituents in these 9 wells would set new highest levels in the region;

- There are no wells that have a coincidence of unusually high levels of indicator parameters. High levels of uranium are not associated with high levels of chloride, fluoride or sulfate. High levels of magnesium or selenium are not associated with high levels of these indicator parameters. No wells have unusually high levels of a number of different parameters. The high concentrations of the various constituents are distributed in a manner across the site and region that does not show any particular pattern or indicate tailings cell leakage.

As a result, we concluded in the April 2007 Addendum that the analysis in that document confirms our conclusions in the Background Report that groundwater at the Mill site and in the region is highly variable naturally and has not been impacted by Mill operations. Varying concentrations of constituents at the site are consistent with natural background variations in the area. It is therefore not possible to conclude that higher concentrations of constituents downgradient of the Mill site necessarily imply contamination from site activities. As is evident from this analysis, higher concentrations of a number of constituents occur naturally far downgradient of the Mill site. See Section 8 of the Background Report for a discussion of factors that contribute to natural spatial variability of groundwater in the Burro Canyon Formation.

In this Report, we perform a quality assurance and data validation and statistical analysis of the available data for the new wells, as required by Part I.H.4 of the GWDP. This includes extreme analysis (see Box Plots in Appendix A), regression analysis (see Appendix B), probability analysis (see Appendix C), and tests for normality including log and normal histograms (see Appendix D). These analyses were performed on the data for each parameter in each new well. A comparison of the mean results of the data for each parameter in each new well to the GWQS for that parameter is presented in Tables 2a and 2b. We then compare the results of the analysis of the new well data to the results for the existing wells and regional background data discussed in the Background Report and in the April 2007 Addendum to determine whether or not there are any spatial patterns suggested by the monitoring results for the new wells, that would either confirm or bring into question our earlier conclusions in the Background Report and in the April 2007 Addendum.

A comparison of the current data for all wells (new wells and existing wells) to the regional background data is contained in Figures 3 to 12. The concentration plots display relative concentrations at each well or source by setting the area of the symbol (circle) in direct proportion to the magnitude of the concentration. In reviewing these figures, it should be kept in mind that clusters of plots at the downgradient edges of the tailings cells do not imply higher concentrations at those locations, but rather result from the fact that more wells have been placed at those locations. At those locations, the areas of the circles should be taken into consideration, rather than the mere proximity of circles. These figures show the spatial distribution of the various constituents.

From a review of Appendices A, B, C, and D, and Figures 3 through 12 the following conclusions can be made:

- All data from the new wells fall within the range of variability established by the Background Report and the April 2007 Addendum, with the exception of nitrate in MW-30 and MW-31, which we have concluded is associated with the plume from the historic leachfields at the site that have given rise to the chloroform plume at the site (see Section 7.3.1 of the Background Report for a discussion of the chloroform investigation at the site);

- There are no wells that have a consistent spatial relationship between parameters and tailings impoundments.

As a result, we have concluded that the sampling results for the new wells confirm the high variability of all constituents across the site and region, which have been described in the previous reports. The groundwater at the Mill site and in the region is highly variable naturally and has not been impacted by Mill operations. Varying concentrations of constituents at the site are consistent with natural background variations in the area.

We confirm our conclusions in the Background Report that, because Mill activities have not impacted background groundwater quality, setting the GWCLs as the mean plus two standard deviations will be appropriate for each constituent that has a sufficient number of data points and that does not exhibit an increasing trend. In most cases, the data for these constituents appear to be close to being normally or log normally distributed. In cases where the data set for a constituent is comprised mainly of non-detects, it may be more appropriate to set the GWCL as the GWQS, since there is no meaningful mean and standard deviation for the constituent. However, where a constituent exhibits a rising trend, setting the GWCL as the mean plus two

standard deviations is not recommended, because the data is not distributed normally, and it may be just a matter of time before the increasing trend will cause the GWCL to be exceeded, due entirely to natural causes. In such cases, consideration should be given to developing compliance limits based on other factors, such as ratios between the trending constituent and indicator parameters such as chloride.

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1.0 INTRODUCTION

This report on background groundwater quality for new wells at Denison Mines (USA) Corps's (DUSA's) White Mesa Uranium Mill (Mill) was prepared to meet the requirements stated in Part I.H.4 of the Mill's State of Utah Groundwater Discharge Permit No. UGW370004 (GWDP) issued on March 8, 2005. This document focuses on recently installed groundwater monitoring wells MW-23, MW-24, MW-25, MW-27, MW-28, MW-29, MW-30, MW-31, and MW-3A (see Figure 1 for a map showing monitoring well locations) which have been monitored quarterly for groundwater quality since June of 2005. For the remainder of the report, these wells will be referred to as the "new wells."

The new wells were installed in the first quarter of 2005 as required by Part I.H.1 of the GWDP. This report is the first analysis of the groundwater quality of those wells in accordance with the GWDP. This analysis of groundwater quality in the new wells will help to establish background concentrations for those wells, and determine if groundwater has been impacted by Mill operations.

On January 1, 2007 DUSA submitted to the Executive Secretary the *Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan County, Utah*, (Background Report) which evaluated all available historic groundwater monitoring data (both pre-operational and post commencement of operations at the Mill) for the monitoring wells in existence at the site and incorporated into the monitoring program set out in the GWDP at the time of issuance of that permit, as required under Part I.H.3 of the GWDP. Those monitoring wells are MW-1, MW-2, MW-3, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-26 and MW-32 (referred to in this Report as the existing wells). In order to supplement the Background Report, in April, 2007, DUSA also submitted to the Executive Secretary the Addendum: *Evaluation of Available Pre-Operational and Regional Background Data* (April 2007 Addendum) which focused on pre-operational and regional groundwater data in order to develop the best available set of background data for the site that could not conceivably have been influenced by Mill operations.

This Report is being submitted to the Executive Secretary as required by Part I.H.4 of the GWDP. The purpose of this Report is to analyze the first eight quarters of data collected from the new wells, which were installed in 2005, to determine background concentrations for constituents in each well. The analysis of these wells will also include an investigation of whether these wells have been impacted by operations at the Mill. This report should also be

considered an addendum to the Background Report, and incorporates by reference the provisions of the Background Report that apply to the site generally.

2.0 APPROACH USED AND APPLICATION OF APPROACH TO THE DATA

2.1 Summary of Issues to be Addressed and Approach Used

The Mill is an existing facility that has been in operation since 1980 (see Section 3.0 of the Background Report for a discussion of the Mill, its historical operations, and environmental setting). The Background Report outlines steps to be taken in reviewing groundwater monitoring data to ensure that monitoring results to be used to determine background groundwater quality at the site have not been impacted by Mill activities. The Background Report identified parameters within the monitoring data set that may allow early identification of uranium milling–related groundwater impacts so that responsible and expeditious corrective actions can be undertaken.

It is well established that groundwater in the perched zone at the Mill site is highly variable and generally of poor quality. This is supported by the pre-operational and regional groundwater monitoring results analyzed in the April 2007 Addendum. As discussed in the April 2007 Addendum, an analysis of these background data indicate a high variability of all constituents across the site and the region. For some constituents (chloride) the highest observed values are upgradient of the site. For others (fluoride, sulfate, TDS and selenium) the highest observed values are far downgradient of the Mill site. For still others (uranium, manganese and gross alpha) the highest concentrations are both upgradient and far downgradient of the site. It is therefore not possible to conclude that higher concentrations of constituents downgradient of the Mill site necessarily imply contamination from site activities. As is evident from this analysis, higher concentrations of a number of constituents occur naturally downgradient of the Mill site.

The analysis in the Background Report and the April 2007 Addendum confirms that it is necessary to observe the behavior over time of constituents in wells on an intra-well basis, as is required under the GWDP and under previous United States Nuclear Regulatory Commission ("NRC") monitoring. It is also noteworthy that the background results analyzed in the April 2007 Addendum would have resulted in 19 out-of-compliance situations and 10 exceedances of State GWQSs under the current GWDP compliance limits, purely from natural background, thus giving further support for the need to set compliance limits on a well by well and constituent by constituent basis.

There are also natural forces that have resulted in upward and downward trends in a number of constituents in groundwater at the Mill site, as well as upgradient and far downgradient of the Mill site itself. See Table 13 of the Background Report for a listing of all statistically significant

trends. The existence of such trends both upgradient and far downgradient of the Mill site is evidence that such trends can result completely from natural causes. See Section 8.0 of the Background Report for a discussion of the natural influences that can be at play at the site.

Because water quality varies naturally from well to well and natural influences have caused increasing and decreasing trends at the site, it is not possible to conclude that an upward trend in a constituent necessarily represents an impact from milling activities. As with the Background Report, each upward trend in a parameter in a new well has been evaluated in this Report to determine whether it is caused by natural influences or by Mill activities.

In evaluating the new well data, we have used the same approach that was used in the Background Report:

If data for a constituent in a well do not demonstrate a statistically significant upward trend, then the mean of that data is accepted as representative of background, regardless of whether or not the mean exceeds the state groundwater quality standard (GWQS) for that constituent (see Table 1 for a listing of the GWQS for each groundwater monitoring constituent under the GWDP); and if data for a constituent in a monitor well represents a statistically significant upward trend, then those data are further evaluated to determine whether the trend is the result of natural causes or Mill activities. If it is concluded that the trend results from natural causes, then the mean plus second standard deviation calculated from those data may be used to determine the GWCL for that constituent in that well, although, as discussed in the Background Report and in Section 8.0 below, such an approach is not recommended in all cases.

In addition, after further evaluating any such parameters, we compared the groundwater monitoring results for the new wells to the results for the existing wells, analyzed in the Background Report and to the pre-operational and regional results analyzed in the April 2007 Addendum. This is particularly important for the new wells because there is no historic data for those wells that goes back to commencement of Mill operations. A long term trend in a constituent may not be evident from the eight quarters of data for the new wells. By comparing the means for the constituents in the new wells to the results for the existing wells and regional background data, we are able to determine if the concentrations of any constituents in the new wells are consistent with background at the site.

As will be discussed in detail below, after applying the foregoing approach, we have concluded that there have been no impacts to groundwater in the new monitoring wells from Mill activities. The groundwater monitoring results for the new wells are consistent with the results for existing wells analyzed in the Background Report and for the pre-operational and regional wells, seeps

and springs analyzed in the April 2007 Addendum. There have been some detections at the Mill site of chloroform and related organic contamination and degradation products and nitrate and nitrite, which are the subject of a separate investigation, but that contamination is the result of pre-Mill activities (see Section 7.3.1 of the Background Report for a discussion of organics detected at the site).

2.2 Application of Approach to the Database

The database that was assembled from monitoring results of the new wells at the site is representative of over 3,000 data entries. After performing a quality assurance evaluation and data validation of the new data in accordance with the requirements of Part I.H.3 of the GWDP, a database consisting of groundwater monitoring data from the new wells was developed. See Section 5.0 for a discussion of the quality assurance and quality control (QA/QC) issues that were addressed in assembling the database.

From that database, a mean and standard deviation for each constituent in each new well were calculated (See Tables 2a and 2b for a listing of each mean and standard deviation and comparisons to the respective GWQS, as well as the discussions in Section 5.0). Extreme values were identified (see Appendix A for Box Plots) and tests for normality were also performed (See Section 6.0 of the Background Report).

Linear regression analyses were performed on each constituent in each well as were analysis for trends using Kendall tau analysis. Linear regression plots are presented in Appendix B. Rising trends identified by either method were flagged in Table 3 for further investigation. See Section 6.0 of the Background Report for a full discussion of the statistical approaches used in the Background Report and in this report.

Table 3 sets out those constituents that have a mean in excess of the state GWQS and/or demonstrate a statistically significant upward trend (decreasing in the case of pH) and therefore require further evaluation. Table 3 is similar to Table 2.2-1 of the Background Report. It should be noted that we have included in the Table 3 all trends that are statistically significant, even though they may contain a slight trend or an r^2 value that approaches zero.[1,2] All other

[1] The correlation coefficient (r) represents the linear relationship between two variables. R Square (r^2) shows how closely X and Y are related. By taking the square of the r value, all values of r^2 are positive (values of r can range from -1 to +1), and fall between 0 (no correlation) and 1 (perfect correlation). The r^2 value is a measure of the strength of the predictive capability of the regression line. An r^2 value of 0 indicates that the regression line has no predictive ability at all. An r^2 value of 1 indicates that the regression line fits the data perfectly and therefore has the highest possible predictive capability. Generally, an r^2 value less than 0.5 is considered to be a poor correlation and the linear regression line is not considered to be a reliable representation of the data (i.e., it explains less than half of the data).

constituents have means that are less than their respective GWQS and do not demonstrate increasing (or decreasing pH) trends (and are confirmed by the analysis in Section 7.2 below to be consistent with preoperational and regional results). For those constituents, the mean and standard deviation set out in Tables 2a and 2b can generally be used to derive GWCLs under the GWDP, without further evaluation.

Each of the constituents included in Table 3 is discussed in turn in the following sections:

2.2.1 Manganese

Table 3 indicates that the average manganese concentration exceeds the GWQS in groundwater samples from the following monitor wells: MW-24; MW-25; MW-28; MW-29; and MW-3A. The values that exceed the GWQS are lower than the highest observed value in the region (7,450 ug/L) in far upgradient Well #38 and are comparable or lower than other wells at the site (MW-30 and MW-31) and are therefore consistent with background variability at the site. There is a significant increasing trend in manganese in MW-25, but this appears to be due to one low result observed during the first sampling event for the well. The subsequent data points do not exhibit a trend. As a result, we do not consider there to be an actual trend in manganese in that well over the first eight quarters.

Manganese concentrations that exceed the GWQS of 800 ug/L are prevalent throughout the site and region (see the discussion in Section 7.2.6 below). Manganese concentrations in groundwater samples from the new wells are consistent with natural variability in background. The new wells with the highest concentrations of manganese, MW-29 and MW-24, with concentrations of 5,034 and 3,991 ug/L, respectively, are not associated with high concentrations of chloride, fluoride or uranium, and are associated with only moderately high concentrations of sulfate, which are the best indicator parameters for potential tailings cell leakage. Accordingly, we do not consider the manganese at the site to have originated from potential tailings cell leakage.

2.2.2 Cadmium

When an extreme value of 2.78 µg/L is removed from the cadmium data set for MW-25, the remaining seven data points indicate a statistically significant increase from 1.28 µg/L to 1.44

[2] It should be noted that even statistically significant trends based on eight quarters of data over two years should be interpreted with caution. At best, the data will show a trend over the first two years of monitoring, but may not identify any longer term trends. This is why the spatial analysis and comparison to the results for existing wells and pre-operational and regional results discussed in Section 7.2 below is important in interpreting the data.

µg/L. Although this analysis violates our statistical rule requiring eight valid data points to draw statistical conclusions, it is worth examining the potential for cadmium in MW-25 to have originated as potential tailings seepage. Note that MW-25 is cross gradient to Tailings Cell 3 and that cadmium is typically relatively insoluble in water except at low pH (Rai and Zachara, 1984), further, it is present in a relatively low average concentration of 3,400 µg/L in tailings solutions (SOB, 2004). These observations argue against a tailings seepage source for cadmium concentrations in MW-25 without accompanying low pH, and high chloride and sulfate that are known to be present in tailings solutions. As will be described below, these conditions and concentrations are not present in MW-25, allowing the conclusion that potential tailings seepage has not impacted concentrations in samples from MW-25.

2.2.3 Uranium

The mean uranium concentration of MW-27 (31.28 ug/L) is slightly elevated above the GWQS of 30 ug/L. This value is within the range of regional background values for uranium (for example, 41.8 ug/L in upgradient MW-18 and 31.7 ug/L for far downgradient MW-3, average 2006 results). MW-27 does not exhibit a statistically significant increasing trend in uranium concentration over time. In addition, MW-27 is at the upgradient corner of tailings Cell 1. For these reasons the uranium concentration in MW-27 is not consistent with potential tailings seepage impacts and is consistent with regional background values.

2.2.4 Nitrogen, Nitrate + Nitrite as N

The concentrations of nitrate in monitoring wells MW-30 and MW-31 are similar to those observed in monitor wells associated with the chloroform plume. The source of these constituents is believed to be discharge of laboratory chemicals and sewage to historic leach fields that pre-date Mill operations. The average concentrations of nitrite in MW-30 and MW-31 of 13.78mg/L and 23.86 mg/L, respectively are consistent with concentrations associated with those leach fields. For example average nitrite concentrations in chloroform investigation well TW4-19 which is located close to the leach field that is nearest to those wells averaged approximately 50 mg/L in 2002 and 2003 (see Appendix K of the Mill's Chloroform Monitoring Report for the 4th quarter of 2006). We conclude that nitrate concentrations in MW-30 and MW-31 are associated with the chloroform contamination, which is currently subject to remediation, and will not be considered further in this report.

It should be noted that chloride concentrations in MW-30 and MW-31 of 125.1 mg/L and 133.9 mg/L, respectively, while not the highest in the region (Well #38 has been measured at 212.5 mg/L), they are relatively high compared to most other monitoring wells. These relatively high

concentrations of chloride in MW-30 and MW-31 are within the range of variability of background in the region and are therefore consistent with background. However, these chloride concentrations may also have been in influenced by the leach fields that have given rise to the chloroform plume and the relatively high nitrate and nitrite concentrations associated with the chloroform monitoring wells. The fact that MW-30 and MW-31 have relatively low concentrations of sulfate and uranium and low to moderate concentrations of fluoride, suggest that the high chloride and nitrate and nitrite concentrations in those wells are not the result of potential tailings seepage.

2.2.5 Selenium

The highest observed average value of selenium concentration in MW-3A is 71.5 ug/L. MW-3A is located far down gradient and, based on calculated travel times (see Appendix B of the April 2007 Addendum), is extremely unlikely to have been impacted by potential tailings cell seepage. The observed average selenium concentration in MW-30 (63.3 ug/L) is within the range of selenium concentrations in existing wells and regional background wells and is not related to potential tailings cell seepage. As mentioned in Section 2.2.4 above, MW-30 is associated with low concentrations of sulfate, uranium, and fluoride, which suggests that selenium concentrations in that well are not associated with potential tailings cell seepage.

2.2.6 pH

The only statistically significant trend in pH is a decreasing trend in MW-3A. However, this trend ranges between 7.5 and 7.0 and is well within the GWQS range of 6.5-8.5. It is also in MW-3A which is far downgradient of the Mill's tailings cells. These factors, together leads us to the conclusion that these results are not impacted by any potential tailings cell leakage. It would be extremely unlikely for low pH solutions originating in the tailings cell to maintain their low pH characteristics over a distance of approximately 3,000 ft to MW-3A in a carbonate-rich geologic setting especially without a much more dramatic decrease in pH being observed any of the monitoring wells adjacent to the tailings cells.

2.3 Conclusions

The constituents listed in Table 3 all fall within the range of preoperational or regional background data as established by the April 2007 Addendum. Relatively high nitrate and nitrite concentrations in MW-30 and MW-31, along with the rising trend in nitrate and nitrite in MW-30 are consistent with and are attributed to contamination originating from the leach fields that have given rise to the chloroform plume at the site. The relatively high concentrations of chloride

in MW-30 and MW-31 may also have been influenced by those leach fields. Further discussion of these constituents is presented in Section 7.0.

3.0 SUMMARY OF HISTORICAL OPERATIONS AND ENVIRONMENTAL SETTING

The Mill is a permitted uranium mill with a vanadium co-product recovery circuit, located within the Colorado Plateau physiographic province approximately 6 miles south of the city of Blanding, Utah. Mill construction began in 1979, and conventionally mined uranium ore was first processed in May 1980. Over its 25 year operating history the Mill has processed over 4 million tons of conventionally mined and alternate feed uranium ores for the recovery of 25 million pounds of U_3O_8 and 34 million pounds of vanadium to date. A detailed description of the uranium/vanadium processing method and Tailings Cell design and construction is described in Section 3.0 of the Background Report and Section 3.1 of the April 2007 Addendum.

4.0 GEOLOGY AND HYDROLOGY OF THE SITE

4.1 General

As described in Section 3.3 of the Background Report, the lower Cretaceous Burro Canyon Formation is directly overlain by Quaternary deposits at the Mill site. The Quaternary colluvial/alluvial sediments are typically coarse-grained deposits that contain little water. The Burro Canyon Formation is described as interbedded conglomerate and grayish-green shale with light-brown sandstone lenses deposited in a fluvial environment (Aubrey, 1989). The average thickness of the unit is approximately 75 feet (U.S. Department of Energy [DOE], 2004).

The Burro Canyon Formation hosts the uppermost occurrence of groundwater at the site and all compliance monitor wells are screened in this unit. Groundwater in this unit is perched and is supported by the relatively impermeable, underlying, fine-grained Brushy Basin Member of the Morrison Formation. The permeability of the Burro Canyon Formation is generally low (TITAN, 1994). Some conglomeratic zones may exist east to northeast of the tailings cells, potentially explaining a relatively continuous zone of higher permeability in these areas. The saturated thickness of the perched groundwater zone ranges from approximately 82 feet in the northeast portion of the site to less than 5 feet in the southwest portion of the site (DOE, 2004).

Groundwater in the perched aquifer generally flows northeast to southwest in the area of the Mill's tailings cells. Figure 2 shows the 2006 groundwater elevations presented in the perched zone. Groundwater in the regional Entrada/Navajo aquifer, isolated from the perched zone by over 1,000 feet of Morrison Formation, is under artesian pressure (upward flow gradient). This

hydrologic barrier isolates deeper groundwater from any potential seepage from overlying geologic units.

4.2 Permeability and Travel Times

The permeability of the Burrow Canyon Formation is discussed in detail in April 2007 Addendum. Appendix B of the April 2007 Addendum includes travel time and permeability calculations.

5.0 QUALITY ASSURANCE EVALUATION AND DATA VALIDATION

Information on recent sampling protocols and practices is described in Section 2.6 of the facility Groundwater and DMT Performance Standard Monitoring Report submitted to UDEQ on August 31, 2005. Documentation of recent protocols and practices indicates a strong commitment to improved sampling and analysis techniques on the part of DUSA and its field personnel.

5.1 Preparation of the Data Set for Statistical Analysis

In order to perform meaningful statistical analysis, various data quality issues, some of which are listed in Part I.H.3 of the GWDP, had to be addressed. With the intent of providing a traceable analysis methodology, an untouched version of the complete data set was maintained for reference, while separate worksheets for statistical analysis were prepared using the steps described in the Background Report for existing wells, including:

- Screen for Negative Values
- Screen for Zero Values
- Screen for Truncated Values
- Screen for Duplicate Records
- Screen for Inconsistent Units
- Handling of Non-Detects

The percent of non-detections was calculated for each analyte for each well. Trend analyses were performed for those analytes for which more than 50% of the data set were non-detects, but they should be regarded with caution as half of the detection limit has been used in place of the non-detected value. See Section 6.0 of the Background Report for a more detailed description of the

statistical evaluations performed in the Background Report for the existing wells and for the new wells in this report.

5.2 Comparison of Reporting Limits to Groundwater Quality Standards

Available data on reporting limits from DUSA reports (2005 to 2007) were compared with GWQSs to evaluate whether reporting limits were adequate to ensure compliance with standards (Table 4). All reporting limits were less than or equal to the respective GWQSs.

5.3 Analytical Methods

Table 6 summarizes the current analytical methods used by Energy Laboratories for the various analytical constituent groups. Methods listed in Table 6 are considered appropriate for the groundwater analytes from the Mill based on wide consensus among regulatory agencies. EPA, American Society for Testing and Materials, the NRC, and most states recommend methodologies similar to those listed in Table 6.

5.4 Checks for Internal Consistency of the Data

The GWDP specified an evaluation of the internal consistency of the data. The following comparisons provide quantifiable methods for evaluating internal consistency.

- TDS calculated from total constituent mass versus measured TDS. Samples that had results for calcium, chloride, magnesium, potassium, sodium, sulfate, total alkalinity, and measured TDS were evaluated for comparability. Table 7 shows the data used to make the comparisons, which had an average ratio of 1.016 (101.6%) and a standard deviation of 0.085 (8.5%). If perfect, the ratio would be 1.0, so a ratio of 1.016 reflects good internal consistency. The ratios ranged from 0.084 to 1.297 (8.4% to 129.7%).

- Charge balance of major cations (Ca, Mg, K, Na) and anions (HCO3-, Cl, SO4). This can be done only for samples in which the major cations (calcium, magnesium, potassium, and sodium) and anions (bicarbonate or total alkalinity, chloride, and sulfate) have been analyzed. In this regard, the older data for the existing wells are incomplete for some of the major ions. The goal for dilute waters ranges from -5.0 to +5.0%. Eight quarters of samples of the new wells showed charge balances (as a percentage, where 0 percent is perfect balance) ranging from -42.8.0 to +20.2%, with 58% of the values falling within the -5.0 to +5.0% range, and 88% of the values falling within the -10.0 to +10.0%, indicating fair internal consistency in the analysis (Table 8).

- When available, the relative percent difference between field duplicates was calculated to provide an estimate of sampling and analytical precision. Results, summarized in Table 9, indicate that most analyses are within acceptable limits and that the data set is usable for determining background groundwater quality.

6.0 DISCUSSION OF RESULTS AND COMPARISON TO EXISTING WELLS AND BACKGROUND

Preoperational and regional background data have been analyzed and interpreted in the April 2007 Addendum. Please refer to the April 2007 Addendum for a discussion of preoperational wells (MW-1, MW-2, MW-3, MW-4, and MW-5), regional wells (MW-20, MW-22, Well #37, Well #38, and Well #39) and seeps and springs (Cottonwood Seep and Ruin Spring).

A number of constituents were identified in the Background Report that required special analysis because they either exceeded GWQSs and/or exhibited increasing concentrations with time in site monitor wells (Table 2.2-1 of the Background Report). Other constituents received special analysis due to their potential for providing an early warning of any possible tailings seepage impact to groundwater. Those previous analyses determined that there was no evidence of potential tailings seepage impact to groundwater in the extensive amount of data collected from existing site monitor wells over more than 25 years of record. As described below, this Report updates the analysis from previous reports with data from new site monitor wells. Results indicate no changes from the previously described site conceptual model and no change from the previous conclusion that there is no evidence of any potential tailings seepage impact to groundwater.

6.1 New Well Sampling Results

Because there was insufficient data from new wells to perform statistical analysis when the Background Report was being written, this Report provides a similar analysis for the new wells as was performed for the existing wells in the Background Report. Table 3 of this Report presents constituents and monitor wells where concentrations exceeded GWQSs and/or exhibited increasing concentrations (or decreasing pH) with time. Of these constituents, only cadmium and nitrate and nitrite as nitrogen (nitrate) were not addressed in the Background Report. Table 3 and these constituents are discussed in Section 2.2 above. Table 5 presents the results for all detected organics in new wells.

6.1.1 Chloroform

Chloroform was detected in well MW-3A during second and third quarter sampling of 2005. However, it is unlikely that these two detections represent actual chloroform contamination in this well for two reasons. First, well MW-3A is far down gradient of all other wells with known chloroform contamination. And secondly chloroform was never detected in well MW-3, which is directly adjacent to well MW-3A. For these two sampling periods chloroform was detected in deionized water blanks. Therefore, it is more likely that these two chloroform detections in well MW-3A represent cross contamination during sampling.

Chloroform was also detected once in the second quarter of 2006 in MW-27 and once in the third quarter of 2005 in MW-28, but has not been subsequently detected in either one of these wells. These isolated detections are also likely the result of cross contamination during sampling, but given the relative proximity of MW-27 and MW-28 to the chloroform plume at the site, attentions should be paid to any future chloroform detections in those wells.

6.1.2 Chloromethane

Chloromethane was detected in all nine new wells during the eight quarter sampling period. However, chloromethane was also consistently detected in both deionized water blanks and in equipment rinsate samples. Therefore, detections of chloromethane are attributed to cross contamination during sampling and are not the result of chloromethane contamination in the wells.

6.1.3 Tetrahydrofuran

Regression plots for tetrahydrofuran show a statistically increasing trend in all wells except for MW-23 and MW-24. However, this trend is merely the result of a change in the reporting limit for tetrahydrofuran. The reporting limit for tetrahydrofuran during the first five quarters of sampling was 1.0 μg/L. For the last three quarters the reporting limit was changed to 10 μg/L. When a value was reported as not detected, half of the reporting limit was used for statistical analysis. Therefore, half of the non-detect values for tetrahydrofuran changed from 0.5 to 5 μg/L, causing the appearance of an increasing trend.

There are, however, a few instances where tetrahydrofuran was detected. It was detected in MW-23, MW-24, and MW-3A during the fourth quarter of 2005, and in MW-3A during the second quarter of 2006. The detections reported during fourth quarter sampling in 2005 are attributed to cross contamination in the report prepared by DUSA detailing fourth quarter sampling (DUSA, 2006). During this sampling period tetrahydrofuran was detected in the field blank and in rinsate

samples. The order in which the wells were sampled during that period was MW-25, MW-28, MW-27, MW-31, MW-30, MW-29, MW-3A, MW-23, MW-24, and finally the field blank. Therefore, given this sampling order, and given the fact that tetrahydrofuran was found in the field blank and rinsate samples, DUSA determined that it is unlikely detection of tetrahydrofuran in these well represented tetrahydrofuran contamination in these wells, but rather represented cross contamination during sampling.

In the report detailing fourth quarter sampling in 2005 DUSA stated that it would change the order in which wells were sampled for the first quarter of 2006 to determine if tetrahydrofuran detection was indeed the result of cross contamination. Given that no detections for tetrahydrofuran occurred in the first quarter of 2006 and subsequent quarters, it is likely that detection of tetrahydrofuran during the fourth quarter of 2005 did in fact represent cross contamination.

The only other detection of tetrahydrofuran occurred in well MW-3A during the second quarter of 2006. No explanation is given for this detection in the report detailing this sampling period. However, given that tetrahydrofuran was reported as not detected during both the first quarter and third quarter of 2006, it is likely that this value also represents cross contamination during sampling and does not actually represent tetrahydrofuran contamination in well MW-3A.

6.1.4 Other Organics

Toluene was detected once in MW-24 and once in MW-3A. These concentrations are likely false positives due to field or lab error or cross contamination, and are worthy of continued attention. Acetone and MEK were detected in early samples of MW-24 but have not been detected since the third quarter of 2005, suggesting a field or lab contamination issue, but are also worthy of continued attention.

6.2 Comparison of New Wells to Existing Wells and Background

The April 2007 Addendum examined available data that could not have been impacted by potential tailings seepage, either because they were collected prior to any possible impact or because the monitor wells are located too far upgradient, side gradient, or downgradient of the tailings impoundments to have been impacted. The primary conclusion of the April 2007 Addendum was that the range of data from the existing wells was encompassed by the range of preoperational and regional background data, indicating that there have been no impacts to groundwater from potential tailings seepage.

Chloride, fluoride, sulfate, uranium, manganese, selenium, TDS and gross alpha data from regional background wells, seeps and springs, and current data from new and existing on-site monitor wells have been plotted on Figure 3 to compare concentrations of constituents in samples of groundwater from new wells to those in samples of groundwater from existing wells. Regional background well data is plotted to provide context for discussion. In Figures 3 through 12, we have added the average of the eight quarters of data for the new wells to the data used for the Figures in the April 2007 Addendum (i.e., the average of the 2006 data for all existing wells other than for the regional wells, seeps and springs, for which we plotted historical data). Figures 4 through 11 are plots of the same data by individual constituents, allowing for a more direct comparison of the concentration of each constituent at each well. The concentration plots display relative concentrations at each well or source by setting the area of the symbol (circle) in direct proportion to the magnitude of the concentration. In reviewing these Figures, it should be kept in mind that clusters of plots at the downgradient edges of the tailings cells do not imply higher concentrations at those locations, but rather result from the fact that more wells have been placed at those locations. At those locations, the areas of the circles should be taken into consideration, rather than the mere proximity of circles. These figures show the spatial distribution of the various constituents.

Given the natural variability across the site and region, with the addition of seven new wells, it would not be unexpected that some of the constituents in those wells would set the new highest levels in the area surrounding the tailings impoundments. However, with few exceptions, all of the current results from the new wells fall within the range of previous results, and in the few cases where current data sets new highs, the new highs in concentrations fall within the range of variability established by preoperational and regional background data (Figure 3 - compare to Figure 18 of the April 2007 Addendum).

6.2.1 Chloride

Average chloride concentrations in groundwater samples from new monitor wells MW-30 and MW-31 (125 and 134 mg/L respectively) are higher than the average concentrations that have been previously observed in site monitor wells (Figure 4). However, these values are within the 212 mg/L upper range of regional background values (upgradient background Well #38 is currently the location of highest observed values). Interestingly, even though MW-30 and 31 are the locus of the highest chloride concentrations among tailings monitoring wells, sulfate and uranium concentrations in samples of groundwater from these wells are among the lowest observed in site monitoring wells. Fluoride concentrations are low to moderate. Given that sulfate, uranium, and fluoride, along with chloride are, for a variety of reasons explained in

Section 9.0 of the Background Report, primary indicators of potential tailings seepage, high, or at least proportional, concentrations of the former three constituents would be expected in MW-30 and MW-31 were the relatively high chloride concentrations the result of tailings impacts. Therefore, we conclude that chloride concentrations in these wells are not the result of potential tailings seepage and are consistent with the natural variability within the Burro Canyon Formation groundwater. As mentioned in section 2.2.4, it is also possible that the relatively high chloride concentrations in those wells could have been impacted by the leach fields that are the subject of the chloroform investigation.

6.2.2 Fluoride

The highest observed average concentration of fluoride is now in far downgradient new monitor well MW-3A, followed by upgradient background well MW-19 (Figure 5). As discussed in the April 2007 Addendum, using highly conservative assumptions, a minimum travel time to far downgradient well MW-3 (located three feet from MW-3A) would be 678 years and a more realistic travel time would be in the range of 2,394 to 1,158 years, rendering impact in 2007 from any potential tailings seepage unlikely. Further, any potential plume from the tailings impoundments would be expected to exhibit highest concentrations near the source and diminishing concentrations downgradient. Therefore, we conclude that the fluoride concentration in MW-3A results from natural variability within the Burro Canyon Formation groundwater.

6.2.3 Uranium

Average uranium concentrations in MW-27, upgradient of the tailings cells, are above the GWQS; however, the concentration of uranium in samples of groundwater from all new monitor wells falls within the range of values from previously existing site monitor wells and regional background values. The highest observed average concentrations continue to be in samples of groundwater from MW-14 (67 µg/L) and MW-15 (49 µg/L) followed closely by regional background Well #39 (48 µg/L) and upgradient monitor well MW-18 (42 µg/L) (Figure 6). Note that samples of groundwater from MW-14 and MW-15 contain very low concentrations of chloride and fluoride and moderate concentrations of sulfate, allowing the conclusion that uranium concentrations do not result from potential tailings seepage impacts.

6.2.4 Sulfate (and TDS)

Because sulfate is a large ion and is the dominant major anion in Burro Canyon Formation groundwater, it is a primary contributor to the measured TDS in site groundwater. Therefore, high sulfate groundwater from the site will also contain high TDS and, in general, low sulfate groundwater will also have low TDS. For purposes of this Report, we will discuss these two

constituents together and assume that statements about sulfate also apply to TDS. The highest concentrations of both sulfate and TDS occur in samples of groundwater from far downgradient monitor wells MW-3A and MW-3 (Figures 7, and 8). As discussed in the April 2007 Addendum and in the section on fluoride above, we conclude that the distance to these wells and the lack of characteristic plume behavior precludes a potential tailings source for the concentrations of sulfate and TDS observed in these wells and attribute these highest site levels to natural variability within the Burro Canyon Formation groundwater.

6.2.5 Manganese

The highest observed average concentration of manganese in site monitoring wells is now in new monitor well MW-29 (5,034 µg/L), followed by existing monitor well MW-32 (4,822 µg/L) (Figure 9). However, concentrations in samples of groundwater from both wells are within the regional background high of 7,450 µg/L in regional background Well #38. Manganese values should be interpreted with caution because high values often result from colloidal particles that are entrained in groundwater samples during disturbances in well sediment caused by pumping. This effect is particularly common in wells that do not yield much water such as those on the west side of the tailings impoundments.

Manganese exhibits a statistically significant rising trend over time in new well MW-25, albeit; at much lower levels than are found in MW-29. In the two year period of record, manganese rose from 1,590 to 1,750 µg/L at that location. However, the rising trend is caused by a low first quarter 2005 result, with the remaining seven data points not exhibiting a trend. We attribute this to the normal variability in field and lab sampling results. In addition, statistically declining values have been observed in samples of groundwater from new monitor wells MW-23 and MW-3A. In no case does there appear to be a systematic spatial relationship between manganese concentrations and the location of the tailings impoundments.

6.2.6 Selenium

The concentration of selenium in samples of groundwater from all new monitor wells falls within the range of values from previously existing site monitor wells and regional background values. While the average concentration of 64 µg/L selenium in samples of groundwater from MW-31 exceeds the 50 µg/L GWQS for selenium, the average concentration of 111 µg/L occurring in samples of groundwater from existing well MW-15 is currently the highest observed at the site, followed by 71 µg/L in MW-3A (Figure 10). Samples of groundwater from MW-31 also contain high concentrations of chloride but samples of groundwater from MW-15 do not. Samples of

groundwater from MW-15 contain moderate concentrations of sulfate but samples of groundwater from MW-31 have sulfate concentrations that are among the lowest at the site.

Like many other constituents in site groundwater, selenium is retarded relative to chloride in groundwater transport processes and is present in tailings solutions at much lower concentrations than chloride or sulfate and it is unlikely that potential tailings seepage impacts would be first manifested only by selenium. Consequently, selenium concentrations in samples of groundwater at the site are judged to be unrelated to potential tailings seepage.

6.2.7 Gross Alpha

A discussion of gross alpha is included here to provide consistency with the Background Report, but note that the high value for gross alpha in data from new wells was an apparently anomalous value of 4.1 pCi/L recorded in a sample of groundwater from new well MW-24 resulting in an average value of 2.8 pCi/L from that well (Figure 11). Gross alpha has not been detected in samples from MW-24 above values attributed to radon and uranium during the last four quarters of sampling. The high value of 4.1 pCi/L is well below the GWQS of 15 pCi/L.

6.2.8 Primary Indicator Parameters

Figure 12 presents average concentrations of four primary indicators of potential tailings impact: fluoride, chloride, sulfate and uranium. There is no consistent spatial relationship between these indicator parameters and the location of the tailings impoundments. For some constituents the highest observed values are upgradient of the Mill site. For others the highest observed values are far downgradient of the site. For still others the highest concentrations are both upgradient and far downgradient of the site.

7.0 CONCLUSIONS

All data from new monitor wells fall within the range of preoperational or regional background data as established by the April 2007 Addendum. An analysis of this new monitor well data confirms the high variability of all constituents across the site and the region described in previous reports. There is no consistent spatial relationship between the primary indicator parameters and the location of the tailings impoundments. For some constituents the highest observed values are upgradient of the Mill site. For others the highest observed values are far downgradient of the site. For still others the highest concentrations are both upgradient and far downgradient of the site. It is therefore not possible to conclude that higher concentrations of constituents downgradient of the Mill site necessarily imply contamination from site activities.

The data for the new wells are consistent with and reinforce our conclusions drawn from the existing wells and regional background.

Relatively high concentrations of nitrate in MW-30 and MW-31 and a rising trend in nitrate in MW-30 suggest that the plume from seepage from the leach fields that are the subject of the chloroform investigation is reaching those wells. While consistent with background in the region, relatively high concentrations of chloride in those wells may also be impacted from those leach fields.

We confirm our conclusions in the Background Report that, because Mill activities have not impacted background groundwater quality, setting the GWCLs as the mean plus two standard deviations will be appropriate for each constituent that has a sufficient number of data points and that does not exhibit an increasing trend. In most cases, the data for these constituents appear to be close to being normally or log normally distributed. In cases where the data set for a constituent is comprised mainly of non-detects, it may be more appropriate to set the GWCL as the GWQS, since there is no meaningful mean and standard deviation for the constituent. However, where a constituent exhibits a rising trend, setting the GWCL as the mean plus two standard deviations is not recommended, because the data is not distributed normally, and it will be just a matter of time before the increasing trend may cause the GWCL to be exceeded, due entirely to natural causes. In such cases, consideration should be given to developing compliance limits based on other factors, such as ratios between the trending constituent and indicator parameters such as chloride.

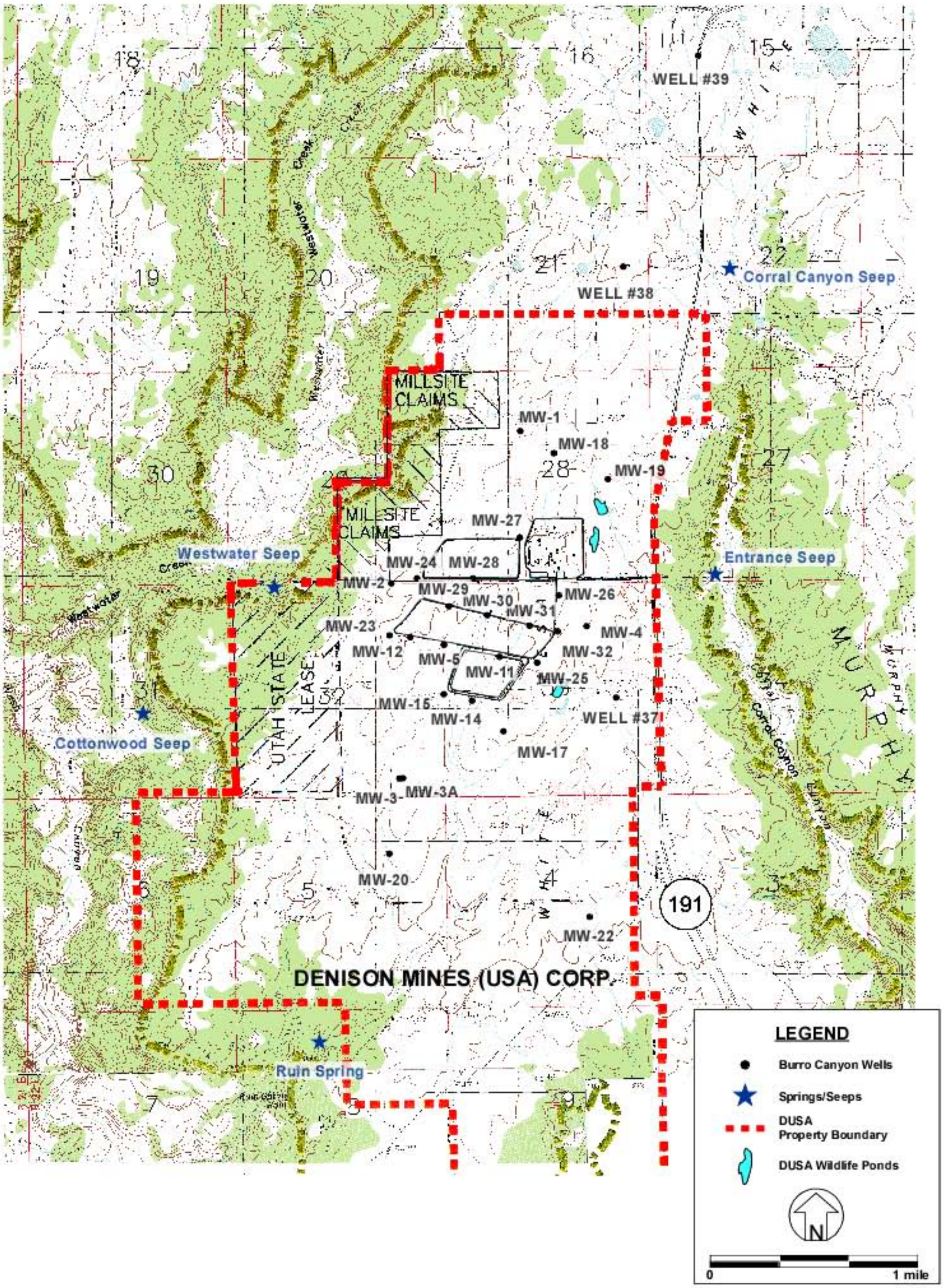


Figure 1
Locations of Wells, Seeps, and Springs in the Vicinity of White Mesa Uranium Mill

INTERA

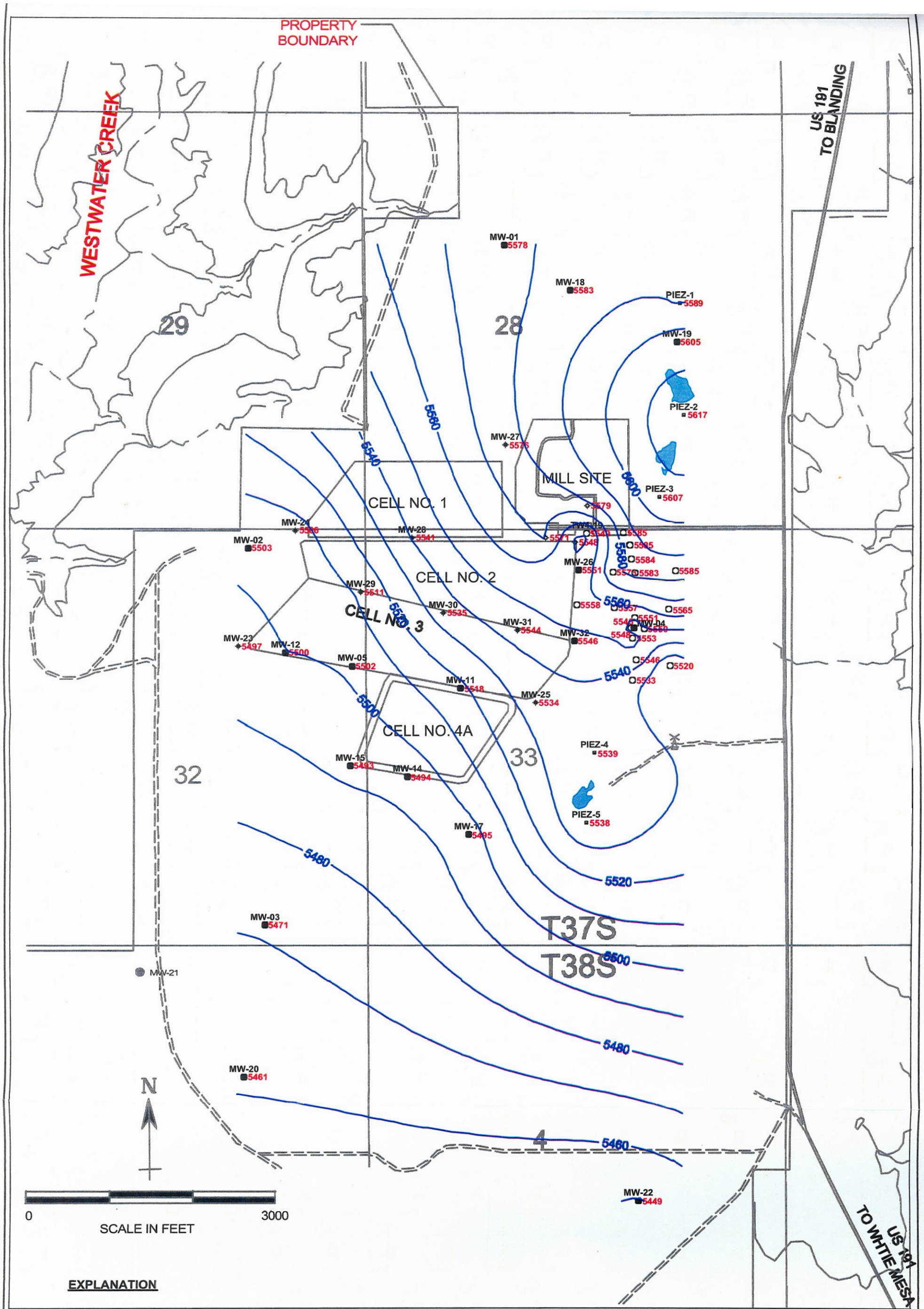
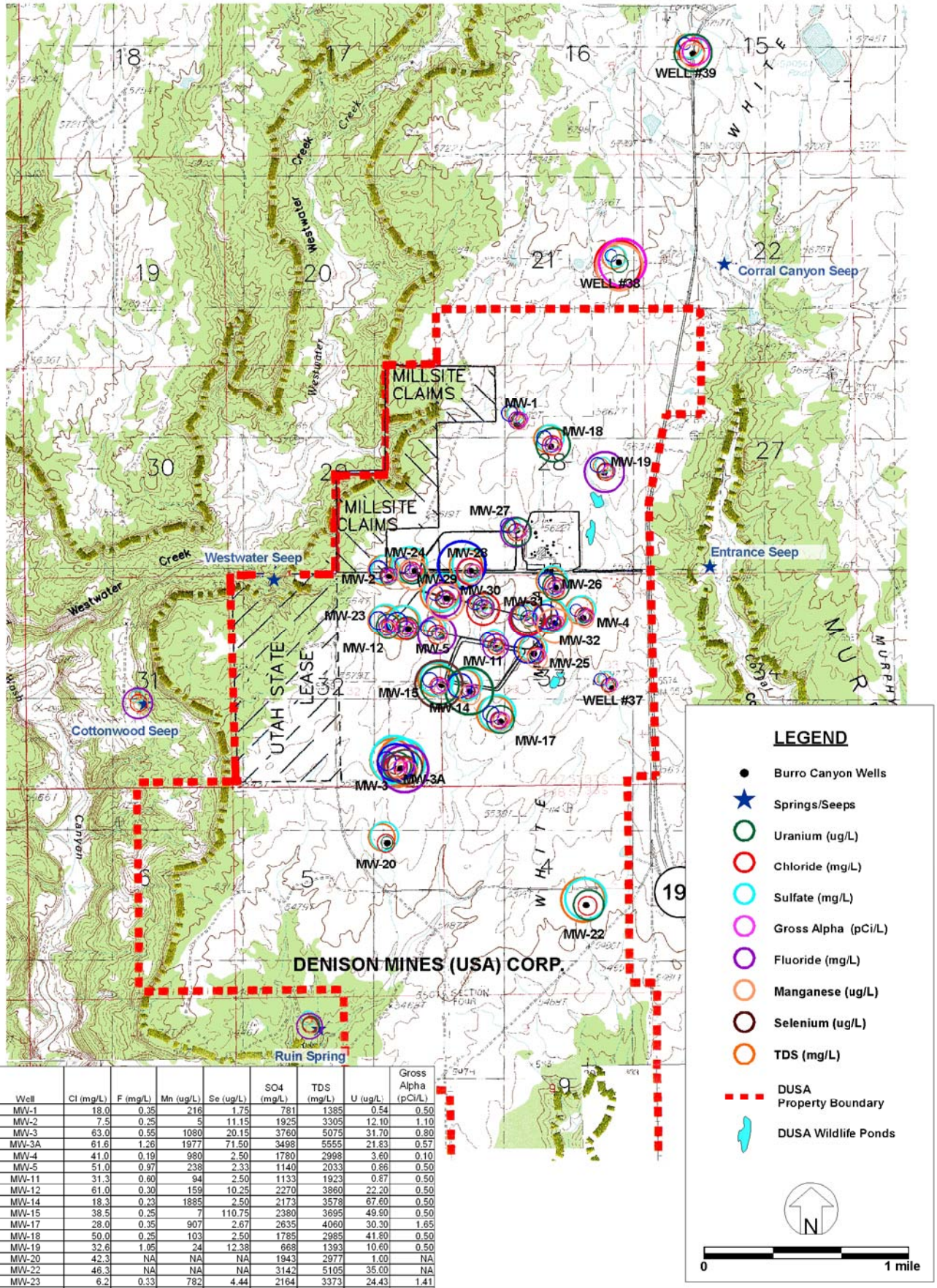


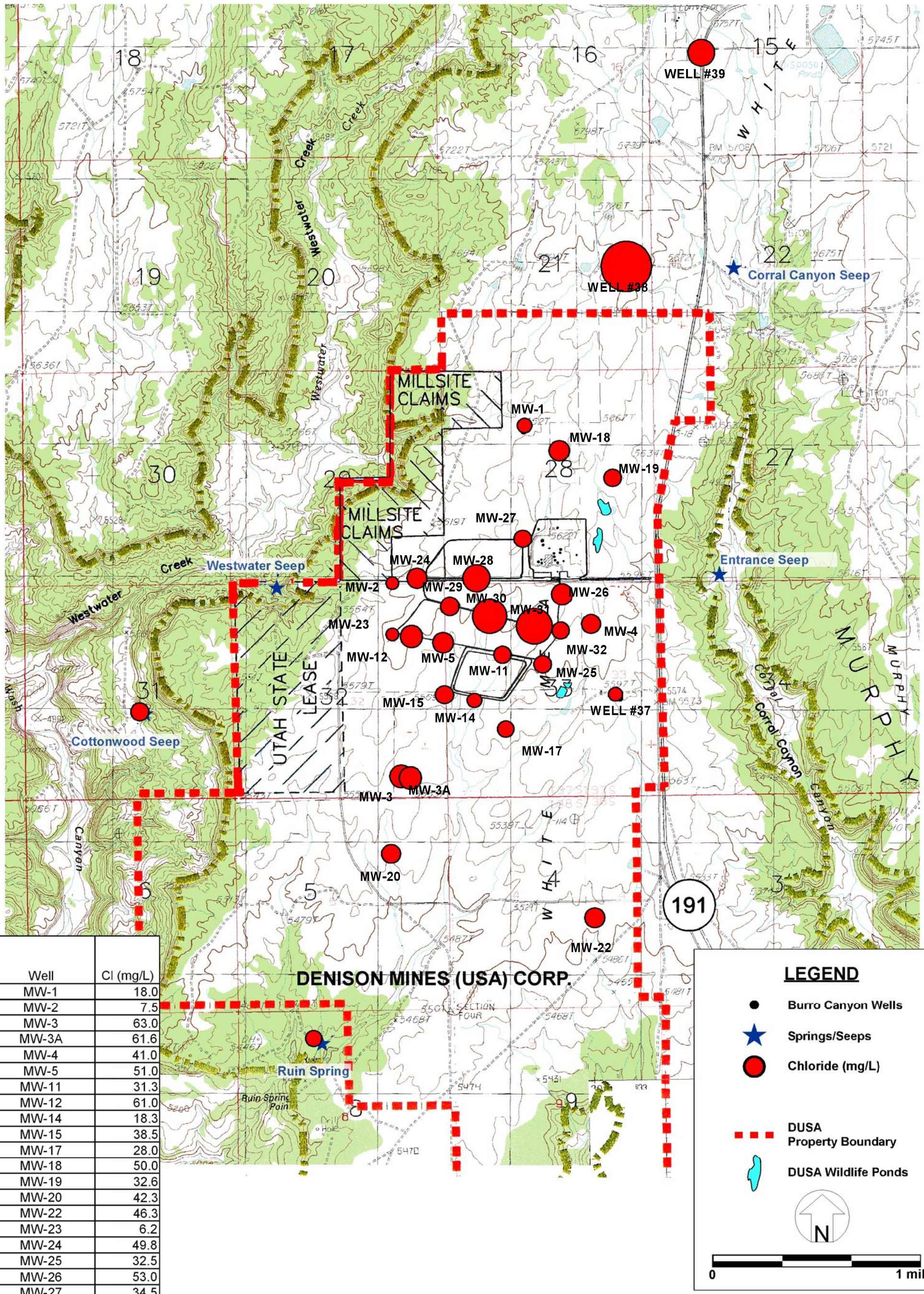
Figure 2
Groundwater Elevation Map

INTERA



Well	Cl (mg/L)	F (mg/L)	Mn (ug/L)	Se (ug/L)	SO4 (mg/L)	TDS (mg/L)	U (ug/L)	Gross Alpha (pCi/L)
MW-1	18.0	0.35	216	1.75	781	1385	0.54	0.50
MW-2	7.5	0.25	5	11.15	1925	3305	12.10	1.10
MW-3	63.0	0.55	1080	20.15	3760	5075	31.70	0.80
MW-3A	61.6	1.26	1977	71.50	3498	5555	21.83	0.57
MW-4	41.0	0.19	980	2.50	1780	2998	3.60	0.10
MW-5	51.0	0.97	238	2.33	1140	2033	0.86	0.50
MW-11	31.3	0.60	94	2.50	1133	1923	0.87	0.50
MW-12	61.0	0.30	159	10.25	2270	3860	22.20	0.50
MW-14	18.3	0.23	1885	2.50	2173	3578	67.60	0.50
MW-15	38.5	0.25	7	110.75	2380	3695	49.90	0.50
MW-17	28.0	0.35	907	2.67	2635	4060	30.30	1.65
MW-18	50.0	0.25	103	2.50	1785	2985	41.80	0.50
MW-19	32.6	1.05	24	12.38	668	1393	10.60	0.50
MW-20	42.3	NA	NA	NA	1943	2977	1.00	NA
MW-22	46.3	NA	NA	NA	3142	5105	35.00	NA
MW-23	6.2	0.33	782	4.44	2164	3373	24.43	1.41
MW-24	49.8	0.21	3991	3.59	2565	3931	26.29	1.19
MW-25	32.5	0.33	1706	2.50	1715	2851	5.90	0.50
MW-26	53.0	0.25	1050	2.50	1935	3085	27.85	2.80
MW-27	34.5	0.74	5	10.78	399	1018	31.25	0.93
MW-28	86.8	0.64	1545	5.79	2306	3673	3.59	1.21
MW-29	38.6	0.86	5034	3.98	2784	4380	10.72	1.30
MW-30	125.1	0.40	26	30.88	889	1761	7.04	0.76
MW-31	133.9	0.90	5	63.70	511	1291	7.71	0.50
MW-32	31.5	0.25	4822	2.50	2365	3770	2.72	1.65
Well 37	15.0	NA	40	NA	500	1025	4.85	1.30
Well 38	212.5	NA	7450	NA	1100	2505	11.57	144.50
Well 39	84.5	NA	2400	NA	1500	2615	48.51	61.00
Cottonwood Seep	36.0	0.75	580	NA	288	1025	NA	NA
Ruin Spring	26.7	0.60	5	12.00	521	1030	10.00	NA

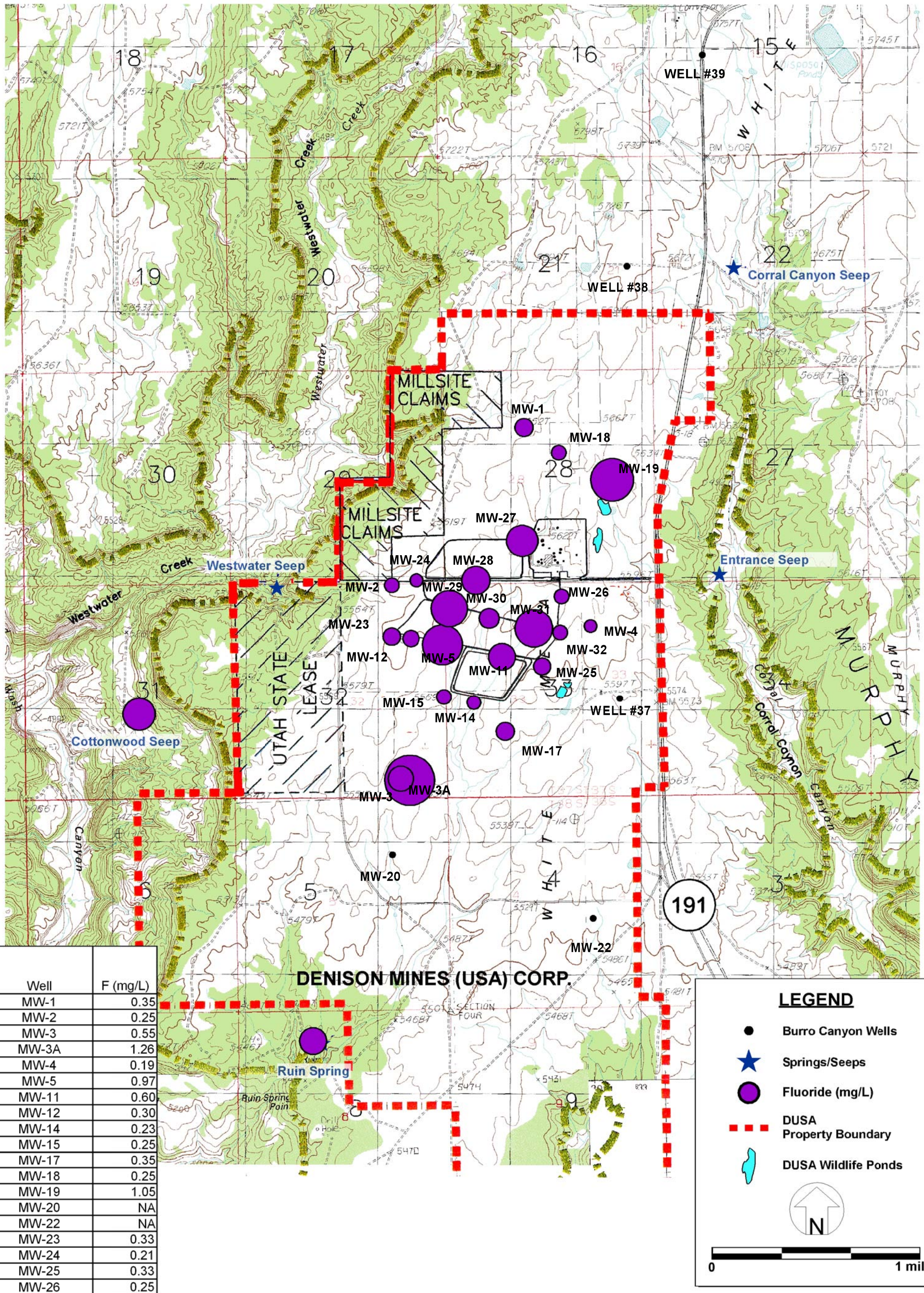
Figure 3
Site Average and Background Concentrations- All Constituents



Well	Cl (mg/L)
MW-1	18.0
MW-2	7.5
MW-3	63.0
MW-3A	61.6
MW-4	41.0
MW-5	51.0
MW-11	31.3
MW-12	61.0
MW-14	18.3
MW-15	38.5
MW-17	28.0
MW-18	50.0
MW-19	32.6
MW-20	42.3
MW-22	46.3
MW-23	6.2
MW-24	49.8
MW-25	32.5
MW-26	53.0
MW-27	34.5
MW-28	86.8
MW-29	38.6
MW-30	125.1
MW-31	133.9
MW-32	31.5
Well 37	15.0
Well 38	212.5
Well 39	84.5
Cottonwood Seep	36.0
Ruin Spring	26.7

Figure 4
Site Average and Background Concentrations - Chloride

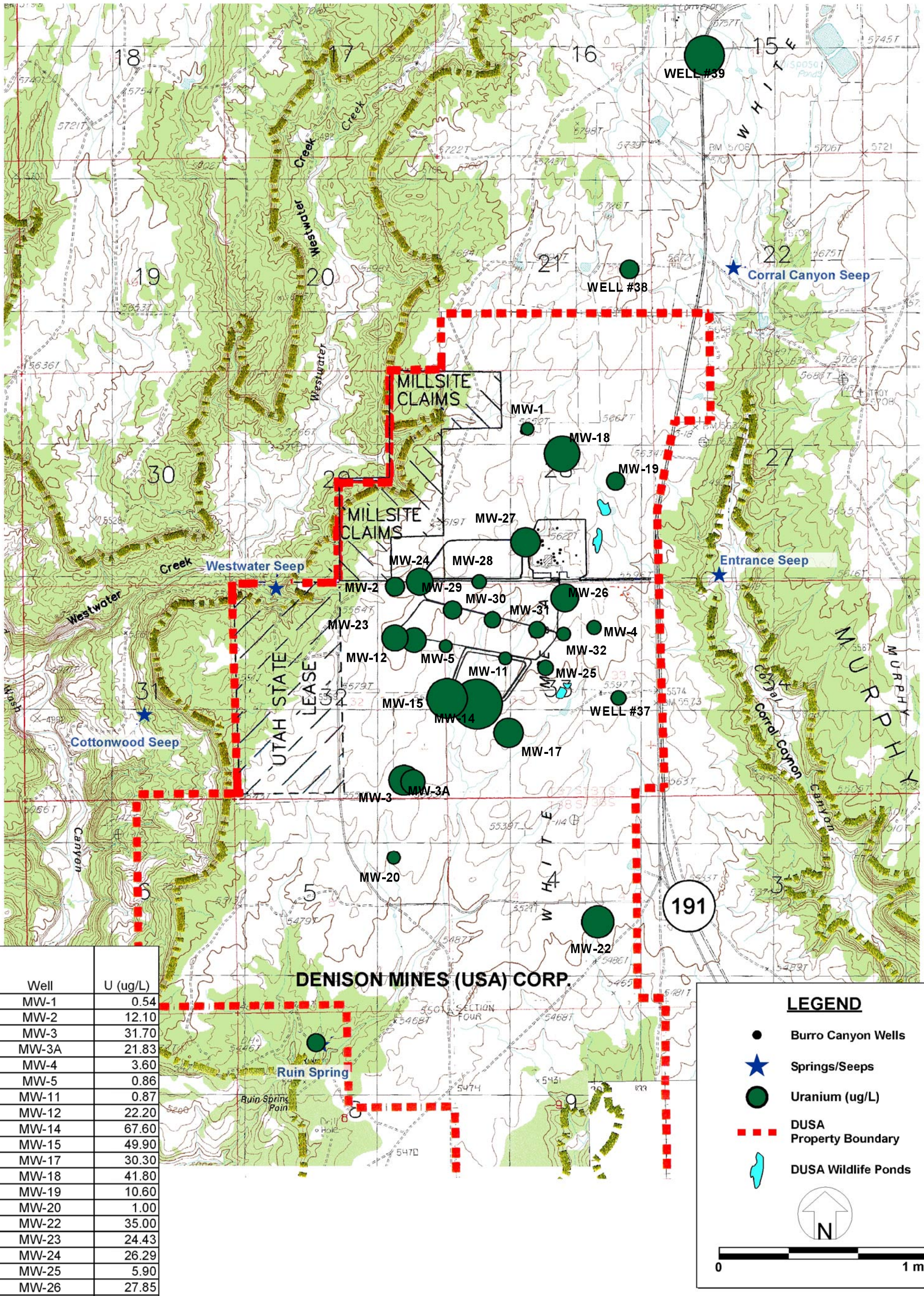
INTERA



Well	F (mg/L)
MW-1	0.35
MW-2	0.25
MW-3	0.55
MW-3A	1.26
MW-4	0.19
MW-5	0.97
MW-11	0.60
MW-12	0.30
MW-14	0.23
MW-15	0.25
MW-17	0.35
MW-18	0.25
MW-19	1.05
MW-20	NA
MW-22	NA
MW-23	0.33
MW-24	0.21
MW-25	0.33
MW-26	0.25
MW-27	0.74
MW-28	0.64
MW-29	0.86
MW-30	0.40
MW-31	0.90
MW-32	0.25
Well 37	NA
Well 38	NA
Well 39	NA
Cottonwood Seep	0.75
Ruin Spring	0.60

Figure 5
Site Average and Background Concentrations - Fluoride

INTERA



Well	U (ug/L)
MW-1	0.54
MW-2	12.10
MW-3	31.70
MW-3A	21.83
MW-4	3.60
MW-5	0.86
MW-11	0.87
MW-12	22.20
MW-14	67.60
MW-15	49.90
MW-17	30.30
MW-18	41.80
MW-19	10.60
MW-20	1.00
MW-22	35.00
MW-23	24.43
MW-24	26.29
MW-25	5.90
MW-26	27.85
MW-27	31.25
MW-28	3.59
MW-29	10.72
MW-30	7.04
MW-31	7.71
MW-32	2.72
Well 37	4.85
Well 38	11.57
Well 39	48.51
Cottonwood Seep	NA
Ruin Spring	10.00

LEGEND

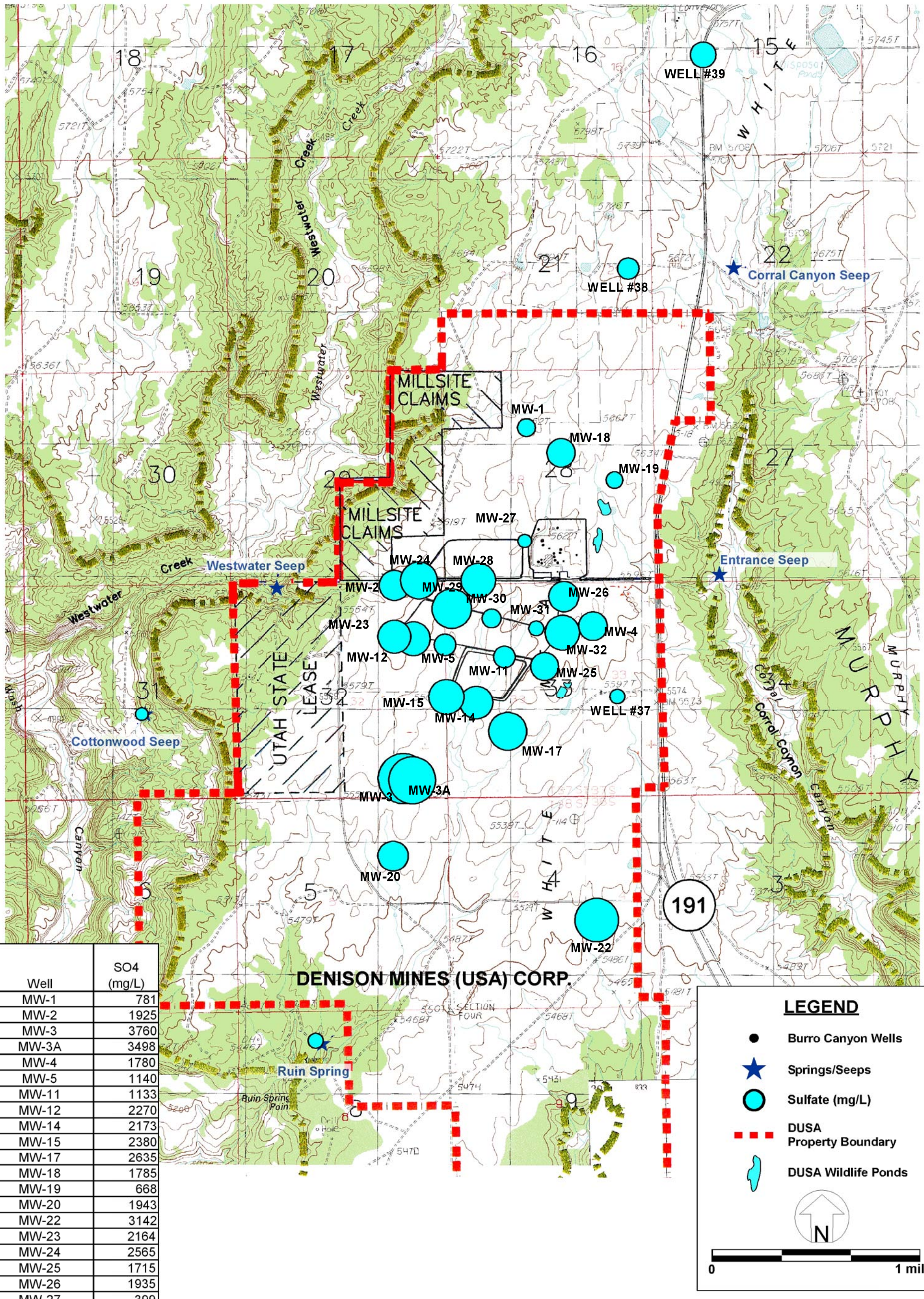
- Burro Canyon Wells
- Springs/Seeps
- Uranium (ug/L)
- DUSA Property Boundary
- DUSA Wildlife Ponds

N

0 — 1 mile

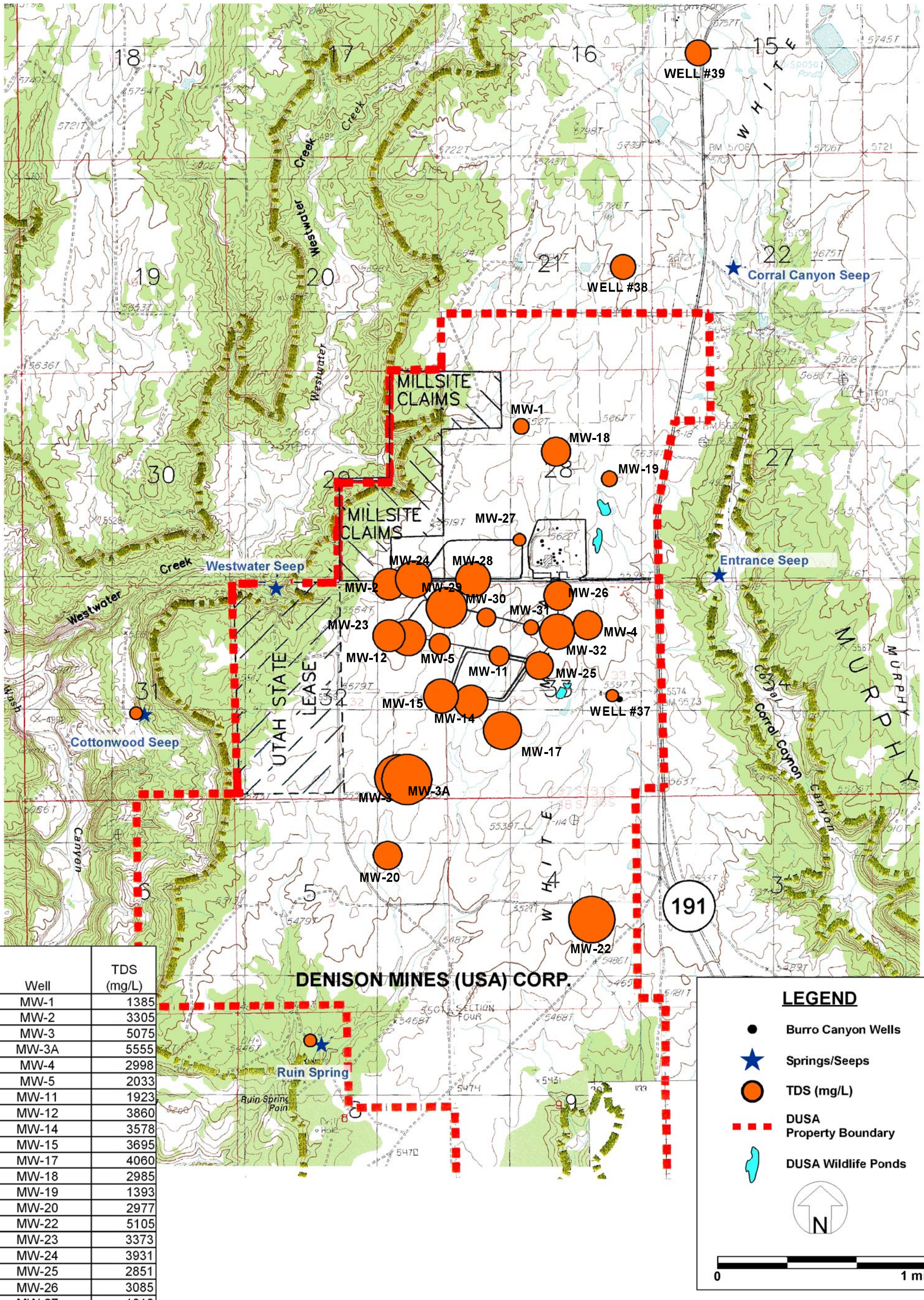
Figure 6
Site Average and Background Concentrations - Uranium

INTERA



Well	SO4 (mg/L)
MW-1	781
MW-2	1925
MW-3	3760
MW-3A	3498
MW-4	1780
MW-5	1140
MW-11	1133
MW-12	2270
MW-14	2173
MW-15	2380
MW-17	2635
MW-18	1785
MW-19	668
MW-20	1943
MW-22	3142
MW-23	2164
MW-24	2565
MW-25	1715
MW-26	1935
MW-27	399
MW-28	2306
MW-29	2784
MW-30	889
MW-31	511
MW-32	2365
Well 37	500
Well 38	1100
Well 39	1500
Cottonwood Seep	288
Ruin Spring	521

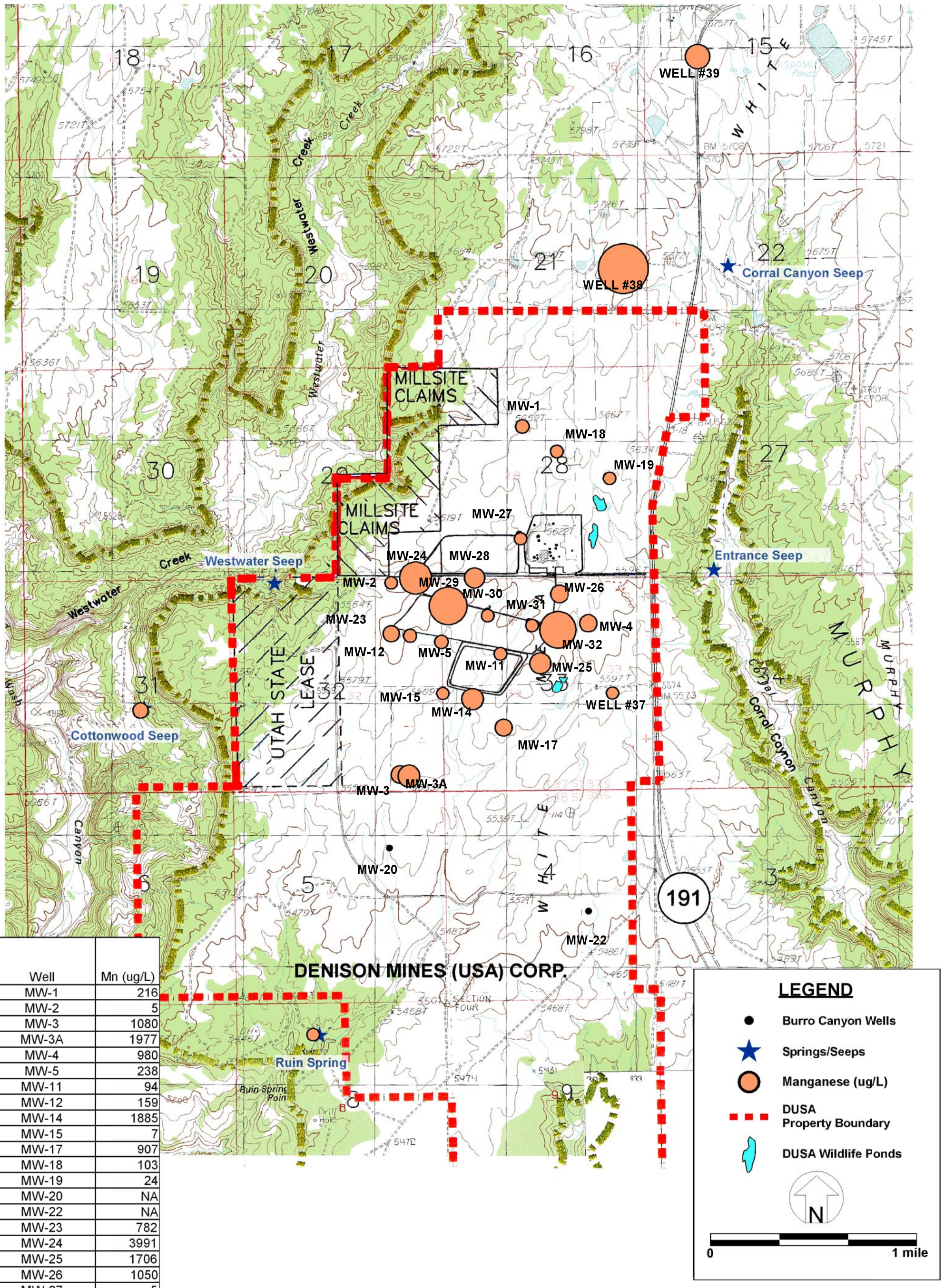
Figure 7
Site Average and Background Concentrations - Sulfate



Well	TDS (mg/L)
MW-1	1385
MW-2	3305
MW-3	5075
MW-3A	5555
MW-4	2998
MW-5	2033
MW-11	1923
MW-12	3860
MW-14	3578
MW-15	3695
MW-17	4060
MW-18	2985
MW-19	1393
MW-20	2977
MW-22	5105
MW-23	3373
MW-24	3931
MW-25	2851
MW-26	3085
MW-27	1018
MW-28	3673
MW-29	4380
MW-30	1761
MW-31	1291
MW-32	3770
Well 37	1025
Well 38	2505
Well 39	2615
Cottonwood Seep	1025
Ruin Spring	1030

Figure 8
Site Average and Background Concentrations - TDS

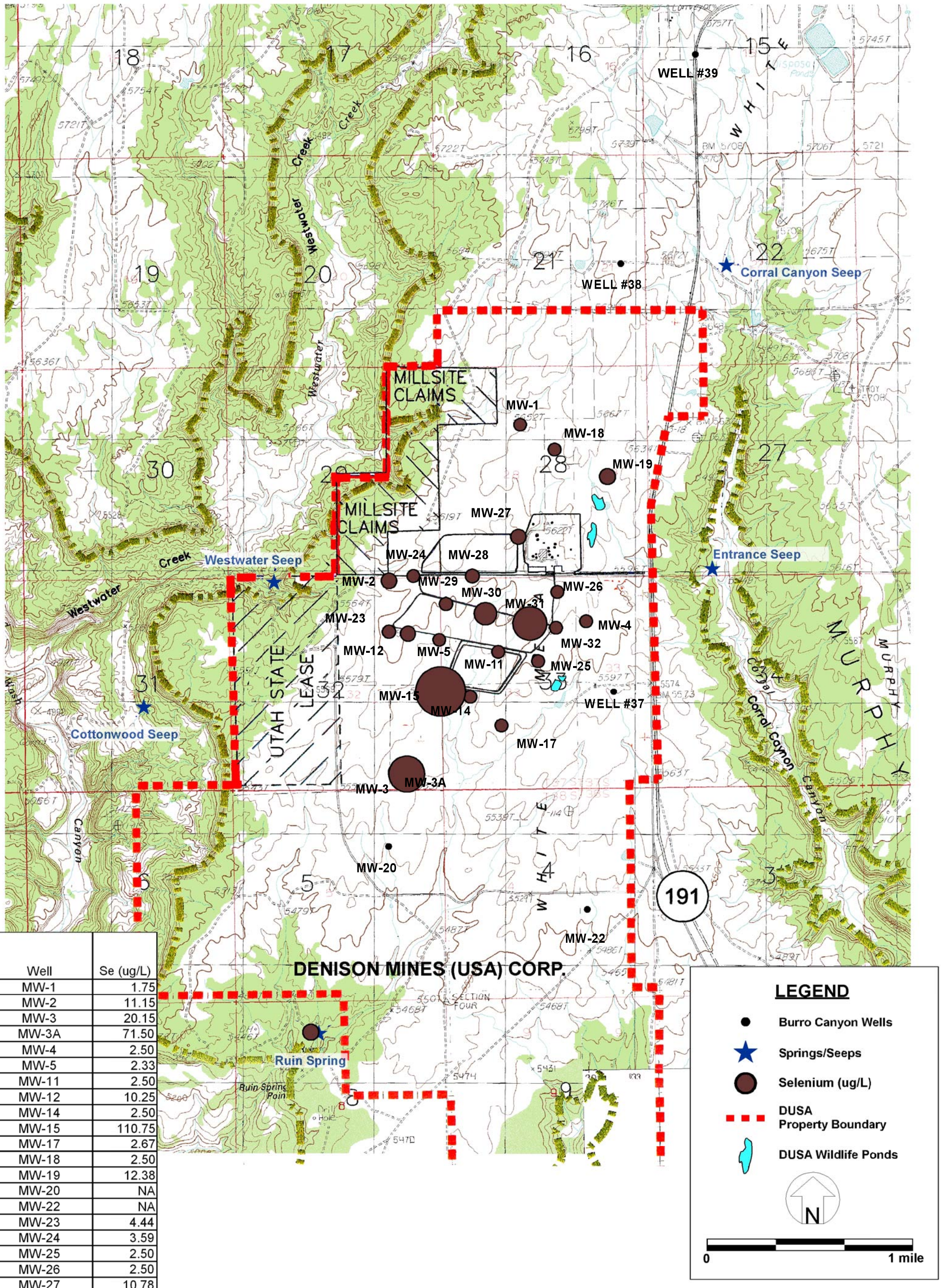
INTERA



Well	Mn (ug/L)
MW-1	216
MW-2	5
MW-3	1080
MW-3A	1977
MW-4	980
MW-5	238
MW-11	94
MW-12	159
MW-14	1885
MW-15	7
MW-17	907
MW-18	103
MW-19	24
MW-20	NA
MW-22	NA
MW-23	782
MW-24	3991
MW-25	1706
MW-26	1050
MW-27	5
MW-28	1545
MW-29	5034
MW-30	26
MW-31	5
MW-32	4822
Well 37	40
Well 38	7450
Well 39	2400
Cottonwood Seep	580
Ruin Spring	5

Figure 9
Site Average and Background Concentrations - Manganese

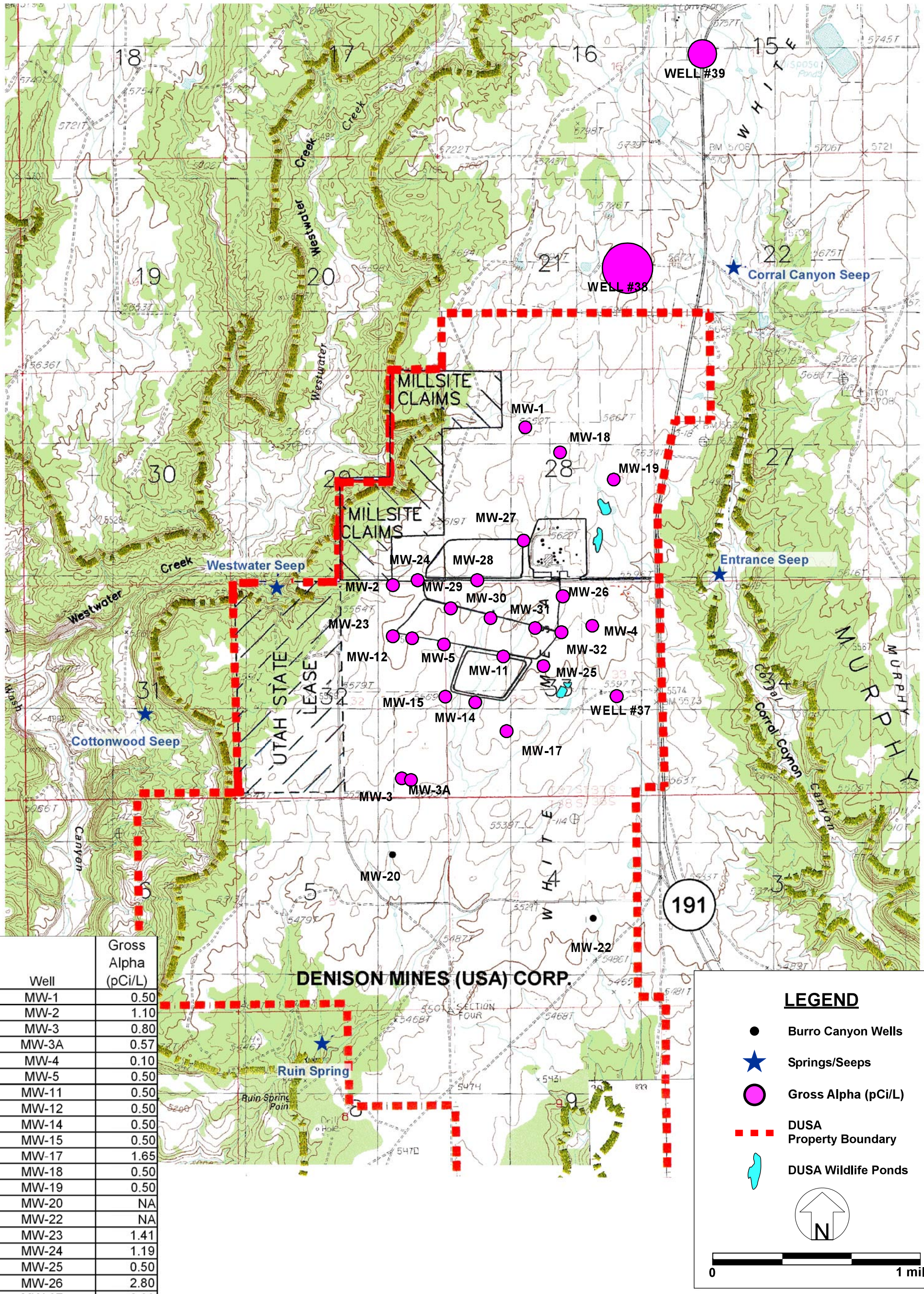
INTERA



Well	Se (ug/L)
MW-1	1.75
MW-2	11.15
MW-3	20.15
MW-3A	71.50
MW-4	2.50
MW-5	2.33
MW-11	2.50
MW-12	10.25
MW-14	2.50
MW-15	110.75
MW-17	2.67
MW-18	2.50
MW-19	12.38
MW-20	NA
MW-22	NA
MW-23	4.44
MW-24	3.59
MW-25	2.50
MW-26	2.50
MW-27	10.78
MW-28	5.79
MW-29	3.98
MW-30	30.88
MW-31	63.70
MW-32	2.50
Well 37	NA
Well 38	NA
Well 39	NA
Cottonwood Seep	NA
Ruin Spring	12.00

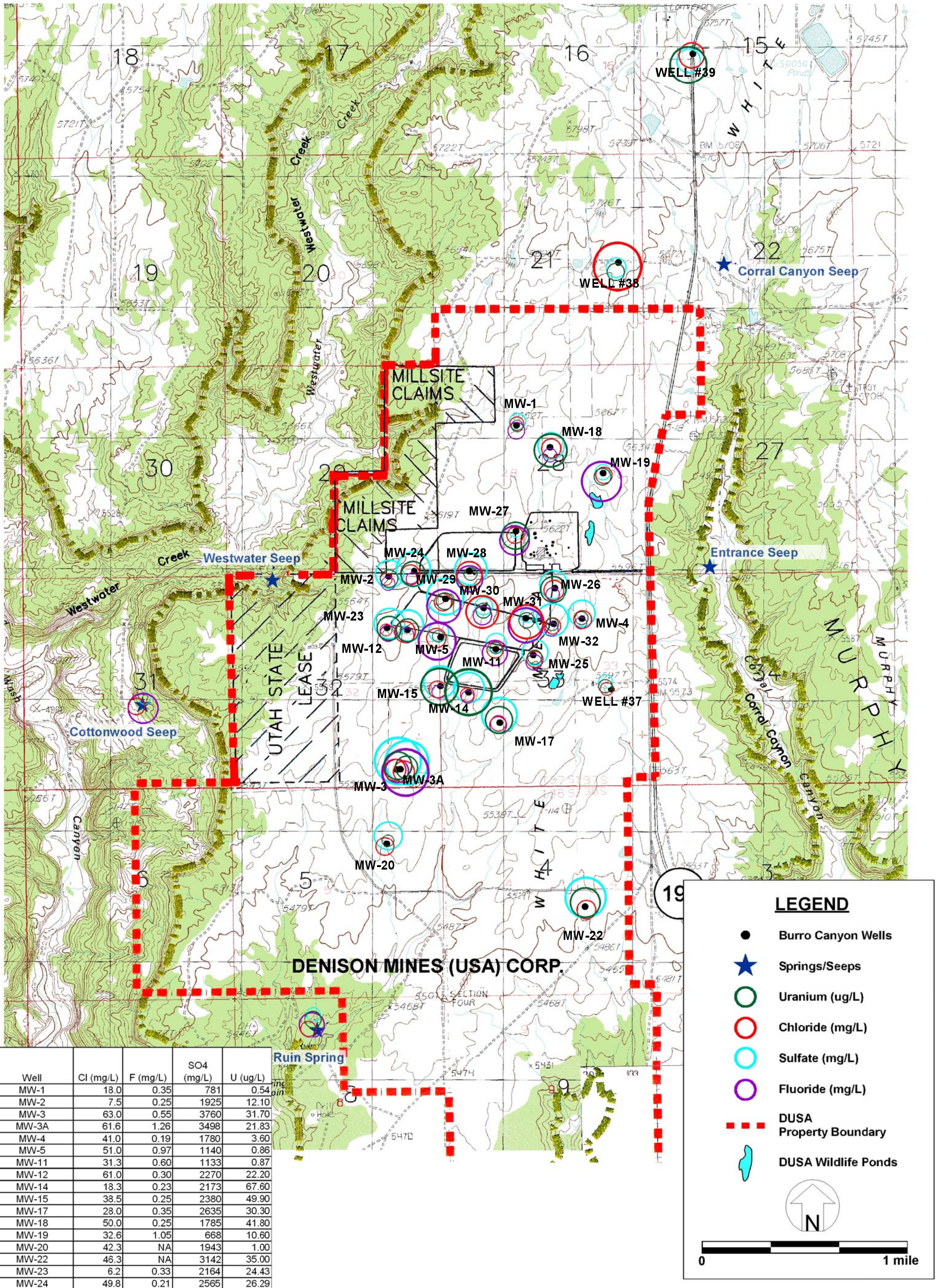
Figure 10
Site Average and Background Concentrations - Selenium

INTERA



Well	Gross Alpha (pCi/L)
MW-1	0.50
MW-2	1.10
MW-3	0.80
MW-3A	0.57
MW-4	0.10
MW-5	0.50
MW-11	0.50
MW-12	0.50
MW-14	0.50
MW-15	0.50
MW-17	1.65
MW-18	0.50
MW-19	0.50
MW-20	NA
MW-22	NA
MW-23	1.41
MW-24	1.19
MW-25	0.50
MW-26	2.80
MW-27	0.93
MW-28	1.21
MW-29	1.30
MW-30	0.76
MW-31	0.50
MW-32	1.65
Well 37	1.30
Well 38	144.50
Well 39	61.00
Cottonwood Seep	NA
Ruin Spring	NA

Figure 11
Site Average and Background Concentrations Gross Alpha



Well	Cl (mg/L)	F (mg/L)	SO4 (mg/L)	U (ug/L)
MW-1	18.0	0.35	781	0.54
MW-2	7.5	0.25	1925	12.10
MW-3	63.0	0.55	3760	31.70
MW-3A	61.6	1.26	3498	21.83
MW-4	41.0	0.19	1780	3.60
MW-5	51.0	0.97	1140	0.86
MW-11	31.3	0.60	1133	0.87
MW-12	61.0	0.30	2270	22.20
MW-14	18.3	0.23	2173	67.60
MW-15	38.5	0.25	2380	49.90
MW-17	28.0	0.35	2635	30.30
MW-18	50.0	0.25	1785	41.80
MW-19	32.6	1.05	668	10.60
MW-20	42.3	NA	1943	1.00
MW-22	46.3	NA	3142	35.00
MW-23	6.2	0.33	2164	24.43
MW-24	49.8	0.21	2565	26.29
MW-25	32.5	0.33	1715	5.90
MW-26	53.0	0.25	1935	27.85
MW-27	34.5	0.74	399	31.25
MW-28	86.8	0.64	2306	3.59
MW-29	38.6	0.86	2784	10.72
MW-30	125.1	0.40	889	7.04
MW-31	133.9	0.90	511	7.71
MW-32	31.5	0.25	2365	2.72
Well 37	15.0	NA	500	4.85
Well 38	212.5	NA	1100	11.57
Well 39	84.5	NA	1500	48.51
Cottonwood Seep	36.0	0.75	288	NA
Ruin Spring	26.7	0.60	521	10.00

Figure 12
Site Average and Background Concentrations - Cl, F, SO4, and U

INTERA

Table 1. New Wells, Monitoring Parameters, Groundwater Quality Standards and Groundwater Quality Compliance Limits, Background Groundwater Quality Report for White Mesa Mill, Utah

Type	Analyte	Units	GWQS	MW-23 (Class III) GWCL	MW-24 (Class III) GWCL	MW-25 (Class II) GWCL	MW-27 (Class II) GWCL	MW-28 (Class III) GWCL	MW-29 (Class III) GWCL	MW-30 (Class II) GWCL	MW-31 (Class II) GWCL	MW-3A (Class III) GWCL
Nutrient	Ammonia, N	mg/L	25	12.5	12.5	6.25	6.25	12.5	12.5	6.25	6.25	12.5
Nutrient	Nitrate+Nitrite, N	mg/L	10	5	5	2.5	2.5	5	5	2.5	2.5	5
Metal	Arsenic	µg/L	50	25	25	12.5	12.5	25	25	12.5	12.5	25
Metal	Beryllium	µg/L	4	2	2	1	1	2	2	1	1	2
Metal	Cadmium	µg/L	5	2.5	2.5	1.25	1.25	2.5	2.5	1.25	1.25	2.5
Metal	Chromium	µg/L	100	50	50	25	25	50	50	25	25	50
Metal	Cobalt	µg/L	730	365	365	182.5	182.5	365	365	182.5	182.5	365
Metal	Copper	µg/L	1,300	650	650	325	325	650	650	325	325	650
Metal	Iron	µg/L	11,000	5500	5500	2750	2750	5500	5500	2750	2750	5500
Metal	Lead	µg/L	15	7.5	7.5	3.75	3.75	7.5	7.5	3.75	3.75	7.5
Metal	Manganese	µg/L	800	400	400	200	200	400	400	200	200	400
Metal	Mercury	µg/L	2	1	1	0.5	0.5	1	1	0.5	0.5	1
Metal	Molybdenum	µg/L	40	20	20	10	10	20	20	10	10	20
Metal	Nickel	µg/L	100	50	50	25	25	50	50	25	25	50
Metal	Selenium	µg/L	50	25	25	12.5	12.5	25	25	12.5	12.5	25
Metal	Silver	µg/L	100	50	50	25	25	50	50	25	25	50
Meta;	Tin	µg/L	4000	2000	2000	1000	1000	500	500	250	250	500
Metal	Thallium	µg/L	2	1	1	0.5	0.5	1	1	0.5	0.5	1
Metal	Uranium	µg/L	30	15	15	7.5	7.5	15	15	7.5	7.5	15
Metal	Vanadium	µg/L	60	30	30	15	15	30	30	15	15	30
Metal	Zinc	µg/L	5,000	2500	2500	1250	1250	2500	2500	1250	1250	2500
Radiologic	Gross Alpha	pCi/L	15	7.5	7.5	3.75	3.75	7.5	7.5	3.75	3.75	7.5
Other	Fluoride	mg/L	4	2	2	1	1	2	2	1	1	2
Other	Chloride	mg/L	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Other	Sulfate	mg/L	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Other	TDS	mg/L	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Other	Field pH	pH	6.5 to 8.5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
VOC	Acetone	µg/L	700	350	350	175	175	350	350	175	175	350
VOC	Benzene	µg/L	5	2.5	2.5	1.25	1.25	2.5	2.5	1.25	1.25	2.5
VOC	Methyl Ethyl Ketone	µg/L	4,000	2000	2000	1000	1000	2000	2000	1000	1000	2000
VOC	Carbon Tetrachloride	µg/L	5	2.5	2.5	1.25	1.25	2.5	2.5	1.25	1.25	2.5
VOC	Chloroform	µg/L	70	35	35	17.5	17.5	35	35	17.5	17.5	35
VOC	Chloromethane	µg/L	30	15	15	7.5	7.5	15	15	7.5	7.5	15
VOC	Dichloromethane	µg/L	5	2.5	2.5	1.25	1.25	2.5	2.5	1.25	1.25	2.5
VOC	Naphthalene	µg/L	100	50	50	25	25	50	50	25	25	50
VOC	Tetrahydrofuran	µg/L	46	23	23	11.5	11.5	23	23	11.5	11.5	23
VOC	Toluene	µg/L	1,000	500	500	250	250	500	500	250	250	500
VOC	Total Xylenes	µg/L	10,000	5000	5000	2500	2500	5000	5000	2500	2500	5000

Notes:

GWQS = Groundwater quality standard
mg/L = Milligrams per liter
pCi/L = Picocuries per liter
µg/L = Micrograms per liter

GWCL = Groundwater compliance limit
VOC = Volatile organic compound
MEK = Methyl ethyl ketone
TDS = Total dissolved solids

Class = Classification of groundwater based on TDS content
Class II = TDS from 500 to 3,000 mg/L
Class III = TDS from 3,000 to 10,000 mg/L
TBD = To be determined (defined as the value of the arithmetic mean plus two standard deviations)

Table 2a: Descriptive Statistics of Constituents in New Monitoring Wells with more than 50% Detections

Type	Analyte	Well	Unit	Det.	N	% Det	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Std.Error	Skewness	Std.Err. Skewness	W-norm	p-norm	W-log	p-log	Distribution	GWQS	Mean Exceeds GWQS
All	Arsenic	MW-24	ug/L	7	9	77.78%	7.53	6.30	2.50	2.00	67.8	2.5	20.4	5.1	8.1	28.663	5.354	1.785	1.951	0.717	0.792	0.016	0.930	0.482	Lognormal	50	No
Excluded Extremes	Arsenic	MW-24	ug/L	6	8	75.00%	5.93	6.25	2.50	2.00	47.4	2.5	9.4	3.8	7.7	6.151	2.480	0.877	-0.325	0.752	0.933	0.541	NR	NR	Normal	50	No
All	Arsenic	MW-28	ug/L	8	8	100.00%	17.35	14.50	Multiple	1.00	138.8	9.7	41.9	12.2	16.9	104.723	10.233	3.618	2.491	0.752	0.659	0.001	0.825	0.052	Lognormal	50	No
Excluded Extremes	Arsenic	MW-28	ug/L	7	7	100.00%	13.84	13.60	Multiple	1.00	96.9	9.7	17.4	12.1	16.4	7.376	2.716	1.027	-0.170	0.794	0.966	0.868	NR	NR	Normal	50	No
All	Cadmium	MW-25	ug/L	8	8	100.00%	1.56	1.40	1.36	2.00	12.47	1.28	2.78	1.35	1.455	0.247	0.497	0.176	2.740	0.752	0.539	0.000	0.592	0.000	Non-parametric	5	No
Excluded Extremes	Cadmium	MW-25	ug/L	7	7	100.00%	1.38	1.36	1.36	2.00	9.69	1.28	1.46	1.34	1.45	0.005	0.067	0.025	-0.275	0.794	0.905	0.360	NR	NR	Normal	5	No
All	Cadmium	MW-28	ug/L	8	8	100.00%	3.28	3.67	3.94	2.00	26.27	1.58	4.68	2.26	4.08	1.293	1.137	0.402	-0.527	0.752	0.917	0.403	NR	NR	Normal	5	No
All	Cadmium	MW-3A	ug/L	4	8	50.00%	2.36	1.60	0.25	3.00	18.86	0.25	6.86	0.25	4.03	7.240	2.691	0.951	1.206	0.752	0.756	0.009	0.845	0.085	Lognormal	5	No
All	Chloride	MW-23	mg/L	7	8	87.50%	6.19	6.50	6.00	2.00	49.5	0.5	10	4.5	8.5	9.853	3.139	1.110	-0.814	0.752	0.940	0.613	NR	NR	Normal	none	No
All	Chloride	MW-24	mg/L	8	8	100.00%	49.75	46.50	45.00	2.00	398	30	71	45	57	151.929	12.326	4.358	0.351	0.752	0.931	0.526	NR	NR	Normal	none	No
All	Chloride	MW-25	mg/L	8	8	100.00%	32.50	32.50	32.00	3.00	260	30	34	32	33.5	1.714	1.309	0.463	-0.764	0.752	0.899	0.283	NR	NR	Normal	none	No
All	Chloride	MW-27	mg/L	9	9	100.00%	34.56	34.00	34.00	3.00	311	32	37	34	36	2.528	1.590	0.530	-0.010	0.717	0.961	0.805	NR	NR	Normal	none	No
All	Chloride	MW-28	mg/L	8	8	100.00%	86.75	87.00	Multiple	1.00	694	73	97	81.5	93.5	65.643	8.102	2.864	-0.363	0.752	0.969	0.886	NR	NR	Normal	none	No
All	Chloride	MW-29	mg/L	8	8	100.00%	38.63	39.00	39.00	3.00	309	36	41	37.5	39.5	2.554	1.598	0.565	-0.302	0.752	0.963	0.840	NR	NR	Normal	none	No
All	Chloride	MW-30	mg/L	8	8	100.00%	124.25	125.00	125.00	4.00	994	118	128	124	125	7.929	2.816	0.996	-1.619	0.752	0.771	0.014	0.764	0.012	Non-parametric	none	No
Excluded Extremes	Chloride	MW-30	mg/L	7	7	100.00%	125.14	125.00	125.00	4.00	876	124	128	124	125	1.810	1.345	0.508	1.948	0.794	0.720	0.006	0.723	0.006	Non-parametric	none	No
All	Chloride	MW-31	mg/L	9	9	100.00%	133.67	133.00	132.00	2.00	1203	127	139	132	136	14.000	3.742	1.247	-0.235	0.717	0.968	0.877	NR	NR	Normal	none	No
All	Chloride	MW-3A	mg/L	8	8	100.00%	61.63	61.50	Multiple	1.00	493	56	70	58.5	63.5	19.125	4.373	1.546	0.733	0.752	0.948	0.693	NR	NR	Normal	none	No
All	Chloromethane	MW-23	ug/L	6	8	75.00%	2.64	2.30	Multiple	2.00	21.1	0.5	6.2	1.25	3.65	3.520	1.876	0.663	0.802	0.752	0.923	0.457	NR	NR	Normal	30	No
All	Chloromethane	MW-24	ug/L	6	9	66.67%	3.60	3.20	0.50	3.00	32.4	0.5	8.6	0.5	5.6	8.925	2.987	0.996	0.542	0.717	0.892	0.209	NR	NR	Normal	30	No
All	Chloromethane	MW-25	ug/L	5	8	62.50%	2.08	1.80	0.50	3.00	16.6	0.5	5.8	0.5	2.85	3.371	1.836	0.649	1.316	0.752	0.849	0.093	NR	NR	Normal	30	No
All	Chloromethane	MW-27	ug/L	5	9	55.56%	2.24	1.70	0.50	4.00	20.2	0.5	6.3	0.5	3.1	4.313	2.077	0.692	1.006	0.717	0.846	0.068	NR	NR	Normal	30	No
All	Chloromethane	MW-28	ug/L	6	8	75.00%	2.15	2.65	0.50	2.00	17.2	0.5	4	0.75	2.95	1.717	1.310	0.463	-0.239	0.752	0.883	0.202	NR	NR	Normal	30	No
All	Chloromethane	MW-29	ug/L	6	8	75.00%	3.63	3.40	0.50	2.00	29	0.5	8.2	1.2	5.55	7.462	2.732	0.966	0.402	0.752	0.936	0.574	NR	NR	Normal	30	No
All	Chloromethane	MW-30	ug/L	5	8	62.50%	1.63	1.70	0.50	3.00	13	0.5	3.1	0.5	2.5	1.145	1.070	0.378	0.061	0.752	0.852	0.099	NR	NR	Normal	30	No
All	Chloromethane	MW-31	ug/L	7	9	77.78%	2.22	1.50	0.50	2.00	20	0.5	5.9	1.1	2.5	3.479	1.865	0.622	1.248	0.717	0.849	0.073	NR	NR	Normal	30	No
All	Chloromethane	MW-3A	ug/L	7	8	87.50%	3.04	2.75	Multiple	1.00	24.3	0.5	5.8	1.85	4.4	3.443	1.855	0.656	0.498	0.752	0.920	0.434	NR	NR	Normal	30	No
All	Cobalt	MW-25	ug/L	5	8	62.50%	8.88	10.00	Multiple	3.00	71	5	15	5	10.5	12.982	3.603	1.274	0.281	0.752	0.857	0.112	NR	NR	Normal	730	No
All	Cobalt	MW-28	ug/L	8	8	100.00%	31.50	32.50	Multiple	1.00	252	15	44	26	38	85.143	9.227	3.262	-0.554	0.752	0.981	0.967	NR	NR	Normal	730	No
All	Fluoride	MW-23	mg/L	7	8	87.50%	0.33	0.30	Multiple	3.00	2.65	0.05	0.8	0.2	0.4	0.052	0.228	0.081	1.200	0.752	0.870	0.152	NR	NR	Normal	4	No
All	Fluoride	MW-24	mg/L	8	8	100.00%	0.24	0.20	0.20	6.00	1.9	0.2	0.4	0.2	0.25	0.006	0.074	0.026	1.951	0.752	0.601	0.000	0.607	0.000	Non-parametric	4	No
Excluded Extremes	Fluoride	MW-24	mg/L	7	7	100.00%	0.21	0.20	0.20	6.00	1.5	0.2	0.3	0.2	0.2	0.001	0.038	0.014	2.646	0.794	0.453	0.000	0.453	0.000	Non-parametric	4	No
All	Fluoride	MW-25	mg/L	8	8	100.00%	0.33	0.30	0.30	6.00	2.6	0.3	0.4	0.3	0.35	0.002	0.046	0.016	1.440	0.752	0.566	0.000	0.566	0.000	Non-parametric	4	No
All	Fluoride	MW-27	mg/L	9	9	100.00%	0.74	0.70	0.70	5.00	6.7	0.7	0.8	0.7	0.8	0.003	0.053	0.018	0.271	0.717	0.690	0.001	0.627	0.000	Non-parametric	4	No
All	Fluoride	MW-28	mg/L	8	8	100.00%	0.64	0.60	0.60	5.00	5.1	0.6	0.7	0.6	0.7	0.003	0.052	0.018	0.644	0.752	0.641	0.000	0.641	0.000	Non-parametric	4	No
All	Fluoride	MW-29	mg/L	8	8	100.00%	0.86	0.85	Multiple	3.00	6.9	0.7	1.1	0.8	0.9	0.014	0.119	0.042	0.970	0.752	0.892	0.245	NR	NR	Normal	4	No
All	Fluoride	MW-30	mg/L	8	8	100.00%	0.40	0.40	0.40	4.00	3.2	0.3	0.5	0.35	0.45	0.006	0.076	0.027	0.000	0.752	0.849	0.093	NR	NR	Normal	4	No
All	Fluoride	MW-31	mg/L	9	9	100.00%	0.92	0.90	0.90	5.00	8.3	0.8	1.2	0.9	0.9	0.014	0.120	0.040	1.685	0.717	0.781	0.012	0.814	0.029	Non-parametric	4	No
Excluded Extremes	Fluoride	MW-31	mg/L	5	5	100.00%	0.90	0.90	0.90	5.00	4.5	0.9	0.9	0.9	0.9	0.000	0.000	0.000	NA	NA	NA	NA	NA	NA	NA	4	No
All	Fluoride	MW-3A	mg/L	7	8	87.50%	1.11	1.15	1.10	3.00	8.85	0.05	1.6	1.1	1.35	0.213	0.462	0.163	-1.983	0.752	0.772	0.014	0.531	0.000	Non-parametric	4	No
Excluded Extremes	Fluoride	MW-3A	mg/L	7	7	100.00%	1.26	1.20	1.10	3.00	8.8	1.1	1.6	1.1	1.4	0.036	0.190	0.072	1.067	0.794	0.854	0.134	NR	NR	Normal	4	No
All	Gross Alpha minus Rn & U	MW-23	pCi/L	6	8	75.00%	1.41	1.50	0.50	2.00	11.3	0.5	2.3	0.75	2	0.490	0.700	0.247	-0.188	0.752	0.922	0.448	NR	NR	Normal	15	No
All	Gross Alpha minus Rn & U	MW-27	pCi/L	5	9	55.56%	0.91	1.10	0.50	4.00	8.2	0.5	1.5	0.5	1.2	0.166	0.408	0.136	0.054	0.717	0.820	0.034	0.775	0.011	Non-parametric	15	No
All	Gross Alpha minus Rn & U	MW-28	pCi/L	6	8	75.00%	1.21	1.25	0.50	2.00	9.7	0.5	2	0.75	1.6	0.287	0.536	0.189	-0.129	0.752	0.949	0.697	NR	NR	Normal	15	No
All	Iron	MW-24	ug/L	9	9	100.00%	1945.44	309.00	Multiple	1.00	17509	32	10300	101	889	12005111.778	3464.839	1154.946	2.214	0.717	0.628	0.000	0.961	0.810	Lognormal	11000	No
Excluded Extremes	Iron	MW-24	ug/L	7	7	100.00%	354.14	245.00	Multiple	1.00	2479	32	889	80	823	127143.476	356.572	134.771	0.949	0.794	0.815	0.057	0.945	0.683	Lognormal	11000	No
All	Iron	MW-28	ug/L	6	8	75.00%	97.38	58.50	15.00	2.00	779	15	277	30	155	9492.268	97.428	34.446	1.265	0.752	0.812	0.038	0.929	0.503	Lognormal	11000	No
All	Iron	MW-29	ug/L	8	8	100.00%	1277.38	1310.00	Multiple	1.00	10219	840	1790	944.5	1540	118101.411	343.659	121.502	0.076	0.752	0.941	0.625	NR	NR	Normal	11000	No
All	Iron	MW-30	ug/L	7	8	87.50%	63.00	50.00	Multiple	1.00	504	15	122	32.5	101	1582.286	39.778	14.064	0.442	0.752	0.909	0.350	NR	NR	Normal	11000	No
All	Manganese	MW-23	ug/L	8	8	100.00%	781.63	351.00	Multiple	1.00	6253	154	2700	171.5	1177	940945.982	970.024	342.955	1.583	0.752	0.700	0.002	0.849	0.094	Lognormal	800	No
All	Manganese	MW-24	ug/L	9	9	100.00%	3991.11	3460.00	Multiple	1.00	35920	1840	7640	2530	4830	4409861.111	2099.967	699.989	0.952	0.717	0.868	0.116	NR	NR	Normal	800	**Yes**
All	Manganese	MW-25	ug/L	8	8	100.00%	1706.25	1710.00	Multiple	2.00	13650	1590	1760	1700	1740	2712.500	52.082	18.414	-1.778	0.752	0.809	0.036	0.798	0.027	Non-parametric	800	**Yes**
All	Manganese	MW-28	ug/L	8	8	100.00%	1545.00	1575.00	Multiple	1.00	12360	1180	1800	1490	1625	32542.857	180.396	63.780	-1.043	0.752	0.909	0.351	NR	NR	Normal	800	**Yes**
All	Manganese	MW-29	ug/L	8	8	100.00%	7529.88	5070.00	Multiple	1.00	60239	4649	25000	4775	5450	49941051.554	7066.898	2498.526	2.816	0.752	0.461	0.000	0.521	0.000	Non-parametric	800	**Yes**
Excluded Extremes	Manganese	MW-29	ug/L	7	7	100.00%	5034.14	5030.00	Multiple	1.00	35239	4649	5720	4750	5180	130223.476	360.865	136.394	1.158	0.794	0.906	0.369	NR	NR	Normal	800	**Yes**
All	Manganese	MW-30	ug/L	7	8	87.50%	25.50	23.00	Multiple	1.00	204	5	44	18	36.5	166.286	12.895	4.559	0.018	0.752	0.967	0.873	NR	NR	Normal	800	No
All	Manganese	MW-3A	ug/L	8	8	100.00%	1976.75	1192.00	Multiple	1.00	15814	22	6520	239	3205	5395627.071	2322.849	821.251	1.205	0.752	0.833	0.064	NR	NR	Normal	800	**Yes**
All	Molybdenum	MW-25	ug/L	7	8	87.50%	9.75	10.00	10.00	5.00	78	5	12	10	10.5	4.214	2.053	0.726	-2.064	0.752	0.702	0.002	0.625	0.000	Non-parametric	40	No
Excluded Extremes	Molybdenum	MW-25	ug/L	7	7	100.00%	10.43	10.00	10.00	5.00	73	10	12	10	11	0.619	0.787	0.297	1.760	0.794	NA	NA	NA	NA	NA	40	No
All	Nickel	MW-28	ug/L	6	8	75.00%	27.25	31.50	Multiple	2.00	218	10	36	20.5	34	106.500	10.320	3.649	-1.225	0.752	0.767	0.012	0.711	0.003	Non-parametric	100	No
All	Nickel	MW-3A	ug/L	5	8	62.50%	41.75	42.00	10	3	334	10	82	10	69	971.929	31.176	11.022	0.146	0.752	0.841	0.077	NR	NR	Normal	100	No
All	Nitrogen, Ammonia as N	MW-23	mg/L	7	8	87.50%	0.23	0.19	Multiple	1	1.845	0.025	0.6	0.08	0.345	0.039	0.197	0.070	0.932	0.752	0.909	0.344	NR	NR	Normal	25	No
All	Nitrogen, Ammonia as N	MW-24	mg/L	8	8	100.00%	7.90	4.84	Multiple	1	63.22	1.24	35.8	2.735	5.52	129.488	11.379	4.023	2.722	0.752	0.550	0.000	0.873	0.162	Lognormal	25	No
Excluded Extremes	Nitrogen, Ammonia as N	MW-24	mg/L	7	7	100.00%	3.92	4.66	Multiple	1	27.42	1.24	5.76	2.72	5.28	2.827	1.681	0.636	-0.588	0.794	0.902	0.342	NR	NR	Normal	25	No
All	Nitrogen, Ammonia as N	MW-25	mg/L	8	8	100.00%	0.64	0.65	Multiple	2	5.09	0.5	0.7	0.605	0.69	0.004	0.067	0.024	-1.286	0.752	0.878	0.178	NR	NR	Normal	25	No
All	Nitrogen, Ammonia as N	MW-28	mg/L	8	8	100.00%	0.21	0.23	0.23	2	1.64	0.08	0.27	0.16	0.255	0.005	0.071	0.025	-1.200	0.752	0.815	0.042	0.756	0.009	Non-parametric	25	No
All	Nitrogen, Ammonia as N	MW-29	mg/L	8	8	100.00%	1.02	1.03	1.03	2	8.12	0.84	1.2	0.94	1.07	0.013	0.114	0.040	-0.132	0.752	0.948	0.687	NR	NR	Normal	25	No
All	Nitrogen, Ammonia as N	MW-30	mg/L	5	8	62.50%	0.06	0.06	0.025	3	0.475	0.025	0.11	0.025	0.085	0.001	0.034	0.012	0.385	0.752	0.876	0.172	NR	NR	Normal	25	No
All	Nitrogen, Ammonia as N	MW-3A	mg/L	7	8	87.50%	0.23	0.24	Multiple	1	1.865	0.025	0.61	0.09	0.29	0.033	0.183	0.065	1.219	0.752	0.893	0.251	NR	NR	Normal	25	No
All	Nitrogen, Nitrate+Nitrite as N	MW-23	mg/L	7	8	87.50%	0.29	0.30	0.3	5	2.35	0.05	0.6	0.25	0.3	0.023	0.152	0.054	0.725	0.752	0.819	0.045	0.745	0.007	Non-parametric	10	No
Excluded Extremes	Nitrogen, Nitrate+Nitrite as N	MW-23	mg/L	6	6	100.00%	0.28	0.30	0.3	5	1.7	0.2	0.3	0.3	0.3	0.002	0.041	0.017	-2.449	0.845	0.496	0.000	0.496	0.000	Non-parametric	10	No
All	Nitrogen, Nitrate+Nitrite as N	MW-27	mg/L	9	9	100.00%	5.07	5.00	4.8	3	45.6	4.7	5.6	4.8	5.3	0.110	0.332	0.111	0.614	0.717	0.889	0.194	NR	NR	Normal	10	No
All	Nitrogen, Nitrate+Nitrite as N	MW-28	mg/L	7	8	87.50%	0.18	0.20	0.2	4	1.45	0.05	0.4	0.1	0.2	0.011	0.107	0.038	1.123	0.752	0.854	0.105	NR	NR	Normal	10	No
All	Nitrogen, Nitrate+Nitrite as N	MW-30	mg/L	8	8	100.00%	13.78	13.95	Multiple	1	110.2	12.4	14.6	13.2	14.45	0.654	0.808	0.286	-0.833	0.752	0.897	0.272	NR	NR	Normal	10	**Yes**
All	Nitrogen, Nitrate+Nitrite as N	MW-31	mg/L	9	9	100.00%	23.86	24.10	Multiple	1	214.7	22	25.3	23.2	24.6	1.295	1.138	0.379	-0.474	0.717	0.948	0.664	NR	NR	Normal	10	**Yes**
All	Nitrogen, Nitrate+Nitrite as N	MW-3A	mg/L	7	8	87.50%	0.86	0.95	Multiple	2	6.85	0.05	1.2	0.8	1.05	0.125	0.354	0.125	-1.989	0.752	0.788	0.021	0.549	0.000	Non-parametric	10	No
Excluded Extremes	Nitrogen, Nitrate+Nitrite as N	MW-3A	mg/L	7	7	100.00%	0.97	1.00	Multiple	2	6.8	0.8	1.2	0.8	1.1	0.022	0.150	0.057	0.256	0.794	0.935	0.591	NR	NR	Normal	10	No
All	PH	MW-23	SU	8	8	100.00%	7.43	7.40	Multiple	1	59.44	7.05	7.85	7.22	7.655	0.078	0.279	0.099	0.387	0.752	0.950	0.708	NR	NR	Normal	6.5-8.5	No
All	PH	MW-24	SU	8	8	100.00%	7.32	7.31	Multiple	1	58.58	7.16	7.68	7.22	7.345	0.026	0.160	0.057	1.795	0.752	0.822	0.049	0.830	0.059	Lognormal	6.5-8.5	No

Table 2a: Descriptive Statistics of Constituents in New Monitoring Wells with more than 50% Detections

Type	Analyte	Well	Unit	Det.	N	% Det	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Std.Error	Skewness	Std.Err. Skewness	W-norm	p-norm	W-log	p-log	Distribution	GWQS	Mean Exceeds GWQS
All	PH	MW-25	SU	8	8	100.00%	7.27	7.24	Multiple	1	58.17	6.94	7.57	7.185	7.41	0.037	0.192	0.068	-0.138	0.752	0.969	0.893	NR	NR	Normal	6.5-8.5	No
All	PH	MW-27	SU	9	9	100.00%	7.75	7.74	7.55	2	69.72	7.55	8.06	7.59	7.86	0.032	0.178	0.059	0.447	0.717	0.920	0.392	NR	NR	Normal	6.5-8.5	No
All	PH	MW-28	SU	8	8	100.00%	6.84	6.84	Multiple	1	54.75	6.54	7.41	6.61	6.955	0.081	0.284	0.101	1.065	0.752	0.903	0.304	NR	NR	Normal	6.5-8.5	No
All	PH	MW-29	SU	8	8	100.00%	6.97	7.04	Multiple	1	55.75	6.52	7.26	6.74	7.205	0.077	0.278	0.098	-0.687	0.752	0.902	0.304	NR	NR	Normal	6.5-8.5	No
All	PH	MW-30	SU	8	8	100.00%	7.37	7.33	7.33	2	58.98	6.85	7.87	7.22	7.58	0.100	0.316	0.112	-0.007	0.752	0.970	0.898	NR	NR	Normal	6.5-8.5	No
All	PH	MW-31	SU	9	9	100.00%	7.43	7.61	Multiple	1	66.87	6.77	7.87	7.12	7.68	0.180	0.424	0.141	-0.864	0.717	0.828	0.043	0.821	0.035	Non-parametric	6.5-8.5	No
All	PH	MW-3A	SU	8	8	100.00%	7.30	7.37	Multiple	1	58.42	7.02	7.52	7.085	7.485	0.044	0.209	0.074	-0.427	0.752	0.858	0.114	NR	NR	Normal	6.5-8.5	No
All	Selenium	MW-23	ug/L	5	8	62.50%	4.44	5.20	2.5	3	35.5	2.5	6.5	2.5	5.55	2.740	1.655	0.585	-0.392	0.752	0.808	0.035	0.762	0.011	Non-parametric	50	No
All	Selenium	MW-27	ug/L	9	9	100.00%	10.67	10.90	Multiple	2	96	9.4	11.9	10	11.5	0.778	0.882	0.294	-0.064	0.717	0.941	0.592	NR	NR	Normal	50	No
All	Selenium	MW-28	ug/L	6	8	75.00%	5.79	6.50	2.5	2	46.3	2.5	8	3.75	7.65	5.058	2.249	0.795	-0.776	0.752	0.846	0.087	NR	NR	Normal	50	No
All	Selenium	MW-30	ug/L	8	8	100.00%	30.88	30.85	Multiple	1	247	28.6	34.6	29.05	32	4.211	2.052	0.725	0.747	0.752	0.926	0.484	NR	NR	Normal	50	No
All	Selenium	MW-31	ug/L	8	9	88.89%	63.26	62.50	Multiple	1	569.3	58.6	70.1	60.3	65.8	15.458	3.932	1.311	0.641	0.717	0.927	0.457	NR	NR	Normal	50	**Yes**
All	Selenium	MW-3A	ug/L	7	8	87.50%	62.88	72.60	Multiple	1	503	2.5	82	59.3	77.35	671.819	25.919	9.164	-2.247	0.752	0.717	0.004	0.516	0.000	Non-parametric	50	**Yes**
Excluded Extremes	Selenium	MW-3A	ug/L	7	7	100.00%	71.50	74.00	Multiple	1	500.5	54.4	82	64.2	79.1	89.477	9.459	3.575	-1.022	0.794	0.929	0.543	NR	NR	Normal	50	**Yes**
All	Sulfate	MW-23	mg/L	8	8	100.00%	2003.13	2125.00	Multiple	1	16025	875	2340	2020	2260	222892.411	472.115	166.918	-2.459	0.752	0.667	0.001	0.587	0.000	Non-parametric	none	No
Excluded Extremes	Sulfate	MW-23	mg/L	7	7	100.00%	2164.29	2150.00	Multiple	1	15150	1950	2340	2090	2280	17628.571	132.773	50.183	-0.310	0.794	0.970	0.900	NR	NR	Normal	none	No
All	Sulfate	MW-24	mg/L	8	8	100.00%	2565.00	2550.00	2680	2	20520	2290	2850	2460	2680	29685.714	172.295	60.916	0.109	0.752	0.982	0.972	NR	NR	Normal	none	No
All	Sulfate	MW-25	mg/L	8	8	100.00%	1715.00	1695.00	Multiple	1	13720	1570	1880	1635	1805	12428.571	111.484	39.415	0.396	0.752	0.937	0.582	NR	NR	Normal	none	No
All	Sulfate	MW-27	mg/L	9	9	100.00%	395.11	402.00	362	2	3556	360	432	362	417	750.361	27.393	9.131	-0.304	0.717	0.877	0.147	NR	NR	Normal	none	No
All	Sulfate	MW-28	mg/L	8	8	100.00%	2306.25	2330.00	2380	2	18450	2010	2520	2250	2380	22741.071	150.801	53.316	-0.942	0.752	0.917	0.406	NR	NR	Normal	none	No
All	Sulfate	MW-29	mg/L	8	8	100.00%	2783.75	2770.00	2770	2	22270	2700	2980	2715	2810	8369.643	91.486	32.345	1.613	0.752	0.834	0.065	NR	NR	Normal	none	No
All	Sulfate	MW-30	mg/L	8	8	100.00%	888.63	890.00	Multiple	1	7109	822	977	854.5	910.5	2353.696	48.515	17.153	0.470	0.752	0.953	0.738	NR	NR	Normal	none	No
All	Sulfate	MW-31	mg/L	9	9	100.00%	503.11	514.00	516	2	4528	436	526	504	516	774.861	27.836	9.279	-2.114	0.717	0.746	0.005	0.728	0.003	Non-parametric	none	No
Excluded Extremes	Sulfate	MW-31	mg/L	7	7	100.00%	511.00	515.00	Multiple	1	3577	485	526	504	522	186.000	13.638	5.155	-1.199	0.794	0.917	0.446	NR	NR	Normal	none	No
All	Sulfate	MW-3A	mg/L	8	8	100.00%	3497.50	3500.00	Multiple	1	27980	3270	3810	3410	3540	24450.000	156.365	55.283	0.856	0.752	0.929	0.510	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-23	mg/L	8	8	100.00%	3131.25	3455.00	3520	2	25050	1440	3640	3010	3520	525298.214	724.775	256.247	-2.266	0.752	0.693	0.002	0.619	0.000	Non-parametric	none	No
Excluded Extremes	TDS @ 180 C	MW-23	mg/L	7	7	100.00%	3372.86	3470.00	3520	2	23610	2920	3640	3100	3520	68023.810	260.814	98.578	-1.138	0.794	0.845	0.110	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-24	mg/L	8	8	100.00%	3931.25	4060.00	Multiple	1	31450	2910	4340	3855	4185	199898.214	447.100	158.074	-2.038	0.752	0.778	0.017	0.735	0.006	Non-parametric	none	No
All	TDS @ 180 C	MW-25	mg/L	8	8	100.00%	2851.25	2850.00	2850	3	22810	2740	2970	2825	2875	4383.929	66.211	23.409	0.146	0.752	0.935	0.562	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-27	mg/L	9	9	100.00%	1017.11	1020.00	1010	3	9154	954	1050	1010	1030	810.111	28.462	9.487	-1.248	0.717	0.854	0.083	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-28	mg/L	8	8	100.00%	3672.50	3680.00	3720	2	29380	3540	3800	3595	3745	8707.143	93.312	32.991	-0.021	0.752	0.943	0.644	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-29	mg/L	8	8	100.00%	4380.00	4385.00	Multiple	2	35040	4250	4520	4350	4400	5857.143	76.532	27.058	0.148	0.752	0.906	0.327	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-30	mg/L	8	8	100.00%	1761.25	1760.00	Multiple	1	14090	1650	1940	1695	1795	8041.071	89.672	31.704	1.010	0.752	0.926	0.479	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-31	mg/L	9	9	100.00%	1282.22	1280.00	1280	4	11540	1220	1320	1280	1290	719.444	26.822	8.941	-1.503	0.717	0.810	0.027	0.802	0.022	Non-parametric	none	No
Excluded Extremes	TDS @ 180 C	MW-31	mg/L	7	7	100.00%	1291.43	1290.00	1280	3	9040	1280	1320	1280	1300	214.286	14.639	5.533	1.448	0.794	0.816	0.059	NR	NR	Normal	none	No
All	TDS @ 180 C	MW-3A	mg/L	8	8	100.00%	5555.00	5550.00	Multiple	1	44440	5360	5770	5465	5640	18342.857	135.436	47.884	0.191	0.752	0.962	0.828	NR	NR	Normal	none	No
All	Thallium	MW-25	ug/L	8	8	100.00%	1.01	1.02	0.97	2	8.08	0.95	1.07	0.97	1.045	0.002	0.044	0.015	-0.068	0.752	0.934	0.552	NR	NR	Normal	2	No
All	Thallium	MW-28	ug/L	8	8	100.00%	0.87	0.86	0.83	2	6.95	0.78	0.98	0.83	0.91	0.004	0.063	0.022	0.601	0.752	0.961	0.820	NR	NR	Normal	2	No
All	Thallium	MW-3A	ug/L	6	8	75.00%	0.63	0.73	Multiple	2	5.06	0.25	0.99	0.385	0.8	0.073	0.271	0.096	-0.507	0.752	0.902	0.302	NR	NR	Normal	2	No
All	Uranium	MW-23	ug/L	8	8	100.00%	31.24	23.50	Multiple	1	249.9	19.4	78.9	21.65	30.65	388.797	19.718	6.971	2.580	0.752	0.611	0.000	0.748	0.008	Non-parametric	30	No
Excluded Extremes	Uranium	MW-23	ug/L	7	7	100.00%	24.43	22.40	Multiple	1	171	19.4	31.8	21.2	29.5	20.889	4.570	1.727	0.853	0.794	0.896	0.305	NR	NR	Normal	30	No
All	Uranium	MW-24	ug/L	9	9	100.00%	48.15	9.72	Multiple	1	433.33	2.13	223	5.53	46	5894.852	76.778	25.593	1.908	0.717	0.673	0.001	0.910	0.317	Lognormal	30	No
Excluded Extremes	Uranium	MW-24	ug/L	8	8	100.00%	26.29	8.52	Multiple	1	210.33	2.13	126	4.385	28.2	1823.407	42.701	15.097	2.320	0.752	0.627	0.000	0.919	0.425	Lognormal	30	No
All	Uranium	MW-25	ug/L	8	8	100.00%	5.90	5.95	Multiple	1	47.16	5.42	6.36	5.72	6.025	0.084	0.291	0.103	-0.276	0.752	0.944	0.647	NR	NR	Normal	30	No
All	Uranium	MW-27	ug/L	9	9	100.00%	31.28	31.30	30.7	2	281.5	29.5	33.1	30.7	31.8	1.342	1.158	0.386	0.097	0.717	0.980	0.962	NR	NR	Normal	30	**Yes**
All	Uranium	MW-28	ug/L	8	8	100.00%	3.59	3.48	Multiple	1	28.75	2.69	4.89	3.29	3.82	0.405	0.636	0.225	1.037	0.752	0.919	0.419	NR	NR	Normal	30	No
All	Uranium	MW-29	ug/L	8	8	100.00%	15.50	11.30	Multiple	1	124.02	8.1	49	10.31	11.85	184.886	13.597	4.807	2.776	0.752	0.509	0.000	0.637	0.000	Non-parametric	30	No
Excluded Extremes	Uranium	MW-29	ug/L	7	7	100.00%	10.72	11.20	Multiple	1	75.02	8.1	12.1	9.52	11.6	1.970	1.404	0.531	-1.335	0.794	0.847	0.117	NR	NR	Normal	30	No
All	Uranium	MW-30	ug/L	8	8	100.00%	7.04	7.12	Multiple	1	56.31	5.79	8	6.615	7.525	0.519	0.720	0.255	-0.475	0.752	0.965	0.857	NR	NR	Normal	30	No
All	Uranium	MW-31	ug/L	9	9	100.00%	7.69	7.60	Multiple	1	69.21	6.56	9.32	7.27	8.03	0.577	0.760	0.253	1.023	0.717	0.917	0.370	NR	NR	Normal	30	No
All	Uranium	MW-3A	ug/L	7	8	87.50%	21.83	23.05	Multiple	1	174.65	0.15	35.2	19.8	26.8	102.284	10.114	3.576	-1.381	0.752	0.872	0.158	NR	NR	Normal	30	No
All	Zinc	MW-23	ug/L	8	8	100.00%	68.50	31.50	30	2	548	13	296	28.5	59.5	8851.143	94.081	33.262	2.595	0.752	0.583	0.000	0.851	0.098	Lognormal	5000	No
Excluded Extremes	Zinc	MW-23	ug/L	7	7	100.00%	36.00	30.00	30	2	252	13	82	27	37	468.000	21.633	8.177	1.936	0.794	0.768	0.020	0.900	0.329	Lognormal	5000	No
All	Zinc	MW-24	ug/L	5	9	55.56%	21.56	10.00	5	4	194	5	108	5	21	1102.528	33.204	11.068	2.744	0.717	0.564	0.000	0.822	0.036	Non-parametric	5000	No
Excluded Extremes	Zinc	MW-24	ug/L	4	8	50.00%	10.75	7.50	5	4	86	5	24	5	16	59.071	7.686	2.717	1.109	0.752	0.774	0.015	0.804	0.031	Non-parametric	5000	No
All	Zinc	MW-28	ug/L	8	8	100.00%	43.13	43.00	Multiple	1	345	18	75	32.5	50.5	289.554	17.016	6.016	0.587	0.752	0.964	0.850	NR	NR	Normal	5000	No
All	Zinc	MW-29	ug/L	8	8	100.00%	20.00	14.50	13	2	160	11	44	13	25	137.714	11.735	4.149	1.625	0.752	0.751	0.008	0.836	0.068	Lognormal	5000	No
All	Zinc	MW-3A	ug/L	8	8	100.00%	75.88	65.50	Multiple	1	607	21	141	44.5	112.5	1795.554	42.374	14.981	0.301	0.752	0.944	0.647	NR	NR	Normal	5000	No

Notes:

All = All valid records extremes excluded from the calculations
Excluded Extremes = Data set with extremes removed
Well = Monitoring well location
Det. = Number of detections
N = Number of samples
%Det = Detection rate as a percentage
Mean = Arithmetic mean
Median = 50th percentile of the sample population
Mode = The value that occurs most frequently in the sample
Frequency of Mode = How often the mode occurs in the sample
Sum = The sum of all the data from the sample
Minimum = Minimum detected concentration
Maximum = Maximum detected concentration
Lower Quartile = 25th percentile of the sample population
Upper Quartile = 75th percentile of the sample population
Variance = An indication of how possible values are spread around the expected value

Std.Dev. = Standard Deviation
Std.Error = The standard deviation of the mean
Skewness = Measure of skewness of the data distribution; indicates degree of assymetry and direction of the skewness (values greater than 2 indicate significant skew, with negative values indicating left skew, positive values indicating right skew)
Std.Err. Skewness = Measures the deviation of the standard error from symmetry
W-norm = Shapiro-Wilk score for normality
p-norm = p-value from Shapiro-Wilk test for normality, where $p < 0.05$ indicates a non-normal distribution
W-log = Shapiro-Wilk score for lognormality
p-log = p-value from Shapiro-Wilk test for lognormality, where $p < 0.05$ indicates a non-lognormal distribution
Distribution = Type of distribution, based on Shapiro-Wilk test; Normal, Lognormal, and Nonparametric
GWQS = Grounwater Quality Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
pCi/L = picocuries per liter
TDS = Total dissolved solids
NA = Not Applicable, due to lack of detections
NR = Not Run: data set contains extremes or was determined to be normally distributed

Table 2b. Descriptive Summary Statistics for Constituents in New Wells with Less than 50% Detects

Type	Analyte	Well	Unit	Det	N	% Det	Valid N	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	W-norm	P-norm	W-log	P-log	Distribution	GWQS	Mean Exceeds
All	Acetone	MW-23	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-24	ug/L	3	9	33.33%	9	143.66667	10	10	6.00	1293	10	650	10	33	67616.00	260.03	86.68	1.66	0.72	0.572	0.000	0.634	0.000	Non-parametric	700	No
Excluded Extremes	Acetone	MW-24	ug/L	1	7	14.29%	7	13.285714	10	10	6.00	93	10	33	10	10	75.57	8.69	3.29	2.65	0.79	0.453	0.000	0.453	0.000	Non-parametric	700	No
All	Acetone	MW-25	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-27	ug/L	0	9	0.00%	9	10	10	10	9.00	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-28	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-29	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-30	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-31	ug/L	0	9	0.00%	9	10	10	10	9.00	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Acetone	MW-3A	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	700	No
All	Arsenic	MW-23	ug/L	0	8	0.00%	8	2.5	2.5	2.5	8.00	20	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-25	ug/L	0	8	0.00%	8	2.5	2.5	2.5	8.00	20	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-27	ug/L	0	9	0.00%	9	2.5	2.5	2.5	9.00	22.5	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-29	ug/L	0	8	0.00%	8	4.775	2.5	2.5	7.00	38.2	2.5	20.7	2.5	2.5	41.41	6.43	2.28	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	50	No
Excluded Extremes	Arsenic	MW-29	ug/L	0	7	0.00%	7	2.5	2.5	2.5	7.00	17.5	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-30	ug/L	0	8	0.00%	8	2.5	2.5	2.5	8.00	20	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-31	ug/L	0	9	0.00%	9	2.5	2.5	2.5	9.00	22.5	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Arsenic	MW-3A	ug/L	0	8	0.00%	8	2.5	2.5	2.5	8.00	20	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Benzene	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-24	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-27	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Benzene	MW-3A	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Beryllium	MW-23	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-24	ug/L	1	9	11.11%	9	0.3666667	0.25	0.25	8.00	3.3	0.25	1.3	0.25	0.25	0.12	0.35	0.12	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	4	No
Excluded Extremes	Beryllium	MW-24	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-25	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-27	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-28	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-29	ug/L	1	8	12.50%	8	0.44125	0.25	0.25	7.00	3.53	0.25	1.78	0.25	0.25	0.29	0.54	0.19	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	4	No
Excluded Extremes	Beryllium	MW-29	ug/L	0	7	0.00%	7	0.25	0.25	0.25	7.00	1.75	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-30	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-31	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4	No
All	Beryllium	MW-3A	ug/L	3	8	37.50%	8	0.51	0.25	0.25	5.00	4.08	0.25	1.09	0.25	0.87	0.14	0.37	0.13	0.88	0.75	0.714	0.003	0.695	0.002	Non-parametric	4	No
All	Cadmium	MW-23	ug/L	2	8	25.00%	8	0.56875	0.49	0.25	3.00	4.55	0.25	1.21	0.25	0.805	0.12	0.35	0.12	0.84	0.75	0.880	0.189	0.885	0.211	Normal	5	No
All	Cadmium	MW-24	ug/L	1	9	11.11%	9	0.3577778	0.25	0.25	5.00	3.22	0.25	0.7	0.25	0.36	0.03	0.16	0.05	1.52	0.72	0.733	0.003	0.765	0.008	Non-parametric	5	No
Excluded Extremes	Cadmium	MW-24	ug/L	1	8	12.50%	8	0.315	0.25	0.25	5.00	2.52	0.25	0.55	0.25	0.36	0.01	0.11	0.04	1.82	0.75	0.690	0.002	0.718	0.004	Non-parametric	5	No
All	Cadmium	MW-27	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Cadmium	MW-29	ug/L	1	8	12.50%	8	0.35125	0.25	0.25	5.00	2.81	0.25	0.85	0.25	0.355	0.04	0.21	0.07	2.55	0.75	0.573	0.000	0.651	0.001	Non-parametric	5	No
Excluded Extremes	Cadmium	MW-29	ug/L	0	7	0.00%	7	0.28	0.25	0.25	5.00	1.96	0.25	0.355	0.25	0.355	0.00	0.05	0.02	1.23	0.79	0.600	0.000	0.600	0.000	Non-parametric	5	No
All	Cadmium	MW-30	ug/L	1	8	12.50%	8	0.37625	0.25	0.25	7.00	3.01	0.25	1.26	0.25	0.25	0.13	0.36	0.13	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	5	No
Excluded Extremes	Cadmium	MW-30	ug/L	0	7	0.00%	7	0.25	0.25	0.25	7.00	1.75	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Cadmium	MW-31	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-24	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-27	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Carbon tetrachloride	MW-3A	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5	No
All	Chloroform	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-24	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-27	ug/L	1	9	11.11%	9	1.0666667	0.5	0.5	8.00	9.6	0.5	5.6	0.5	0.5	2.89	1.70	0.57	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	70	No
Excluded Extremes	Chloroform	MW-27	ug/L	0	7	0.00%	7	0.5	0.5	0.5	7.00	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-28	ug/L	1	9	11.11%	9	29.333333	0.5	0.5	8.00	264	0.5	260	0.5	0.5	7482.25	86.50	28.83	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	70	No
Excluded Extremes	Chloroform	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	70	No
All	Chloroform	MW-3A	ug/L	2	8	25.00%	8	1.25	0.5	0.5	6.00	10	0.5	4.4	0.5	1.55	2.16	1.47	0.52	1.87	0.75	0.605	0.000	0.601	0.000	Non-parametric	70	No
All	Chromium	MW-23	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-24	ug/L	0	9	0.00%	9	12.5	12.5	12.5	9.00	112.5	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-25	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-27	ug/L	0	9	0.00%	9	12.5	12.5	12.5	9.00	112.5	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-28	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-29	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-30	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-31	ug/L	0	9	0.00%	9	12.5	12.5	12.5	9.00	112.5	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Chromium	MW-3A	ug/L	0	8	0.00%	8	12.5	12.5	12.5	8.00	100	12.5	12.5	12.5	12.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Cobalt	MW-23	ug/L	1	8	12.50%	8	7.375	5	5	7.00	59	5	24	5	5	45.13	6.72	2.38	2.83	0.75	0.418	0.000	0.418	0.000	Normal	730	No
Excluded Extremes	Cobalt	MW-23	ug/L	0	7	0.00%	7	5	5	5	7.00	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	730	No
All	Cobalt	MW-24	ug/L	3	9	33.33%	9	8.6666667	5	5	6.00	78	5	24	5	11	42.50	6.52	2.17	1.97	0.72	0.659	0.000	0.695	0.001	Normal	730	No

Table 2b. Descriptive Summary Statistics for Constituents in New Wells with Less than 50% Detects

Type	Analyte	Well	Unit	Det	N	% Det	Valid N	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	W-norm	P-norm	W-log	P-log	Distribution	GWQS	Mean Exceeds
All	Cobalt	MW-27	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	730	No
All	Cobalt	MW-29	ug/L	1	8	12.50%	8	6.75	5	5	7.00	54	5	19	5	5	24.50	4.95	1.75	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	730	No
Excluded Extremes	Cobalt	MW-29	ug/L	0	7	0.00%	7	5	5	5	7.00	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	730	No
All	Cobalt	MW-30	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	730	No
All	Cobalt	MW-31	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	730	No
All	Cobalt	MW-3A	ug/L	3	8	37.50%	8	12.75	5	5	5.00	102	5	36	5	20.5	157.93	12.57	4.44	1.39	0.75	0.688	0.002	0.711	0.003	Non-parametric	730	No
All	Copper	MW-23	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-24	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-25	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-27	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-28	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-29	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-30	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-31	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Copper	MW-3A	ug/L	1	8	12.50%	8	6.125	5	5	7.00	49	5	14	5	5	10.13	3.18	1.13	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	1300	No
Excluded Extremes	Copper	MW-3A	ug/L	0	7	0.00%	7	5	5	5	7.00	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1300	No
All	Gross Alpha minus Rn & U	MW-24	pCi/L	3	8	37.50%	8	1.1875	0.5	0.5	5.00	9.5	0.5	4.1	0.5	1.45	1.59	1.26	0.45	2.21	0.75	0.647	0.001	0.734	0.005	Non-parametric	15	No
All	Gross Alpha minus Rn & U	MW-25	pCi/L	1	8	12.50%	8	0.6125	0.5	0.5	7.00	4.9	0.5	1.4	0.5	0.5	0.10	0.32	0.11	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	15	No
Excluded Extremes	Gross Alpha minus Rn & U	MW-25	pCi/L	0	7	0.00%	7	0.5	0.5	0.5	7.00	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Gross Alpha minus Rn & U	MW-29	pCi/L	3	8	37.50%	8	1.3	1.3	Multiple	2.00	10.4	0.5	2.8	0.8	1.45	0.52	0.72	0.25	1.19	0.75	0.862	0.127	0.891	0.240	Normal	15	No
All	Gross Alpha minus Rn & U	MW-30	pCi/L	2	8	25.00%	8	0.7625	0.5	0.5	6.00	6.1	0.5	1.8	0.5	0.9	0.25	0.50	0.18	1.73	0.75	0.608	0.000	0.602	0.000	Non-parametric	15	No
All	Gross Alpha minus Rn & U	MW-31	pCi/L	1	9	11.11%	9	0.5666667	0.5	0.5	8.00	5.1	0.5	1.1	0.5	0.5	0.04	0.20	0.07	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	15	No
Excluded Extremes	Gross Alpha minus Rn & U	MW-31	pCi/L	0	7	0.00%	7	0.5	0.5	0.5	7.00	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Gross Alpha minus Rn & U	MW-3A	pCi/L	2	8	25.00%	8	0.7	0.5	0.5	6.00	5.6	0.5	1.6	0.5	0.75	0.16	0.40	0.14	2.05	0.75	0.595	0.000	0.607	0.000	Non-parametric	15	No
Excluded Extremes	Gross Alpha minus Rn & U	MW-3A	pCi/L	1	7	14.29%	7	0.5714286	0.5	0.5	6.00	4	0.5	1	0.5	0.5	0.04	0.19	0.07	2.65	0.79	0.453	0.000	0.453	0.000	Non-parametric	15	No
All	Iron	MW-23	ug/L	2	8	25.00%	8	34.25	15	15	6.00	274	15	150	15	24.5	2231.64	47.24	16.70	2.72	0.75	0.492	0.000	0.574	0.000	Non-parametric	11000	No
Excluded Extremes	Iron	MW-23	ug/L	1	7	14.29%	7	17.714286	15	15	6.00	124	15	34	15	15	51.57	7.18	2.71	2.65	0.79	0.453	0.000	0.453	0.000	Non-parametric	11000	No
All	Iron	MW-25	ug/L	0	8	0.00%	8	15	15	15	8.00	120	15	15	15	15	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	11000	No
All	Iron	MW-27	ug/L	0	9	0.00%	9	15	15	15	9.00	135	15	15	15	15	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	11000	No
All	Iron	MW-31	ug/L	0	9	0.00%	9	15	15	15	9.00	135	15	15	15	15	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	11000	No
All	Iron	MW-3A	ug/L	1	8	12.50%	8	100.5	15	15	7.00	804	15	699	15	15	58482.00	241.83	85.50	2.83	0.75	0.418	0.000	0.418	0.000	Lognormal	11000	No
Excluded Extremes	Iron	MW-3A	ug/L	0	7	0.00%	7	15	15	15	7.00	105	15	15	15	15	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	11000	No
All	Lead	MW-23	ug/L	2	8	25.00%	8	1.9625	0.5	0.5	6.00	15.7	0.5	8.3	0.5	2.45	8.42	2.90	1.03	1.95	0.75	0.601	0.000	0.599	0.000	Non-parametric	15	No
All	Lead	MW-24	ug/L	2	9	22.22%	9	2.6222222	0.5	0.5	7.00	23.6	0.5	18.6	0.5	0.5	36.01	6.00	2.00	2.98	0.72	0.418	0.000	0.523	0.000	Non-parametric	15	No
Excluded Extremes	Lead	MW-24	ug/L	0	7	0.00%	7	0.5	0.5	0.5	7.00	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-27	ug/L	1	9	11.11%	9	0.5555556	0.5	0.5	8.00	5	0.5	1	0.5	0.5	0.03	0.17	0.06	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	15	No
Excluded Extremes	Lead	MW-27	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-28	ug/L	3	8	37.50%	8	0.975	0.5	0.5	5.00	7.8	0.5	2	0.5	1.65	0.45	0.67	0.24	0.79	0.75	0.712	0.003	0.688	0.002	Non-parametric	15	No
All	Lead	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-30	ug/L	1	8	12.50%	8	0.6	0.5	0.5	7.00	4.8	0.5	1.3	0.5	0.5	0.08	0.28	0.10	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	15	No
Excluded Extremes	Lead	MW-30	ug/L	0	7	0.00%	7	0.5	0.5	0.5	7.00	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Lead	MW-3A	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	15	No
All	Manganese	MW-27	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	800	No
All	Manganese	MW-31	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	800	No
All	Mercury	MW-23	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-24	ug/L	2	9	22.22%	9	0.3833333	0.25	0.25	7.00	3.45	0.25	0.93	0.25	0.25	0.07	0.27	0.09	1.72	0.72	0.565	0.000	0.556	0.000	Non-parametric	2	No
Excluded Extremes	Mercury	MW-24	ug/L	0	7	0.00%	7	0.25	0.25	0.25	7.00	1.75	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-25	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-27	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-28	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-29	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-30	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-31	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9.00	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Mercury	MW-3A	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8.00	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Methyl Ethyl Ketone	MW-23	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-24	ug/L	1	9	11.11%	9	14.111111	10	10	8.00	127	10	47	10	10	152.11	12.33	4.11	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	4000	No
Excluded Extremes	Methyl Ethyl Ketone	MW-24	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-25	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-27	ug/L	0	9	0.00%	9	10	10	10	9.00	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-28	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-29	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-30	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-31	ug/L	0	9	0.00%	9	10	10	10	9.00	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Methyl Ethyl Ketone	MW-3A	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Molybdenum	MW-23	ug/L	1	8	12.50%	8	5.875	5	5	7.00	47	5	12	5	5	6.13	2.47	0.88	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	40	No
Excluded Extremes	Molybdenum	MW-23	ug/L	0	7	0.00%	7	5	5	5	7.00	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-24	ug/L	1	9	11.11%	9	6.8888889	5	5	8.00	62	5	22	5	5	32.11	5.67	1.89	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	40	No
Excluded Extremes	Molybdenum	MW-24	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-27	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-28	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-29	ug/L	1	8	12.50%	8	6	5	5	7.00	48	5	13	5	5	8.00	2.83	1.00	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	40	No
Excluded Extremes	Molybdenum	MW-29	ug/L	0	7	0.00%	7	5	5	5	7.00	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-30	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-31	ug/L	0	9	0.00%	9	5	5	5	9.00	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Molybdenum	MW-3A	ug/L	0	8	0.00%	8	5	5	5	8.00	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	40	No
All	Naphthalene	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-24	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No

Table 2b. Descriptive Summary Statistics for Constituents in New Wells with Less than 50% Detects

Type	Analyte	Well	Unit	Det	N	% Det	Valid N	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	W-norm	P-norm	W-log	P-log	Distribution	GWQS	Mean Exceeds
All	Naphthalene	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-27	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9.00	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Naphthalene	MW-3A	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8.00	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-23	ug/L	3	8	37.50%	8	17.75	10	10	5.00	142	10	41	10	25.5	145.93	12.08	4.27	1.36	0.75	0.722	0.004	0.727	0.005	Non-parametric	100	No
All	Nickel	MW-24	ug/L	2	9	22.22%	9	17.555556	10	10	7.00	158	10	56	10	10	260.78	16.15	5.38	2.17	0.72	0.561	0.000	0.570	0.000	Non-parametric	100	No
Excluded Extremes	Nickel	MW-24	ug/L	0	7	0.00%	7	10	10	10	7.00	70	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-25	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-27	ug/L	0	9	0.00%	9	10	10	10	9.00	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-29	ug/L	1	8	12.50%	8	11.5	10	10	7.00	92	10	22	10	10	18.00	4.24	1.50	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	100	No
Excluded Extremes	Nickel	MW-29	ug/L	0	7	0.00%	7	10	10	10	7.00	70	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-30	ug/L	0	8	0.00%	8	10	10	10	8.00	80	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nickel	MW-31	ug/L	0	9	0.00%	9	10	10	10	9	90	10	10	10	10	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Nitrogen, Ammonia as N	MW-27	mg/L	3	9	33.33%	9	0.0411111	0.025	0.025	6	0.37	0.025	0.09	0.025	0.05	0.00	0.03	0.01	1.33	0.72	0.673	0.001	0.676	0.001	Non-parametric	25	No
All	Nitrogen, Ammonia as N	MW-31	mg/L	2	9	22.22%	9	0.0305556	0.025	0.025	7	0.275	0.025	0.05	0.025	0.025	0.00	0.01	0.00	1.62	0.72	0.536	0.000	0.536	0.000	Non-parametric	25	No
Excluded Extremes	Nitrogen, Ammonia as N	MW-31	mg/L	0	6	0.00%	6	0.025	0.025	0.025	6	0.15	0.025	0.025	0.025	0.025	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	25	No
All	Nitrogen, Nitrate+Nitrite as N	MW-24	mg/L	3	8	37.50%	8	0.19375	0.05	0.05	5	1.55	0.05	0.8	0.05	0.25	0.07	0.26	0.09	2.20	0.75	0.648	0.001	0.737	0.006	Non-parametric	10	No
All	Nitrogen, Nitrate+Nitrite as N	MW-25	mg/L	0	8	0.00%	8	0.05	0.05	0.05	8	0.4	0.05	0.05	0.05	0.05	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10	No
All	Nitrogen, Nitrate+Nitrite as N	MW-29	mg/L	0	8	0.00%	8	0.05	0.05	0.05	8	0.4	0.05	0.05	0.05	0.05	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10	No
All	Selenium	MW-24	ug/L	3	9	33.33%	9	3.5888889	2.5	2.5	6	32.3	2.5	6.2	2.5	5.3	2.72	1.65	0.55	0.93	0.72	0.665	0.001	0.652	0.000	Non-parametric	50	No
All	Selenium	MW-25	ug/L	0	8	0.00%	8	2.5	2.5	2.5	8	20	2.5	2.5	2.5	2.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	50	No
All	Selenium	MW-29	ug/L	2	8	25.00%	8	3.975	2.5	2.5	6	31.8	2.5	9.3	2.5	5	7.69	2.77	0.98	1.57	0.75	0.603	0.000	0.592	0.000	Non-parametric	50	No
All	Silver	MW-23	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-24	ug/L	0	9	0.00%	9	5	5	5	9	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-25	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-27	ug/L	0	9	0.00%	9	5	5	5	9	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-28	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-29	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-30	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-31	ug/L	0	9	0.00%	9	5	5	5	9	45	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Silver	MW-3A	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	100	No
All	Tetrahydrofuran	MW-23	ug/L	1	8	12.50%	8	2.875	2.75	0.5	4	23	0.5	6	0.5	5	6.55	2.56	0.91	0.06	0.75	0.732	0.005	0.692	0.002	Non-parametric	46	No
All	Tetrahydrofuran	MW-24	ug/L	1	8	12.50%	8	3.05	2.75	0.5	4	24.4	0.5	7.4	0.5	5	8.05	2.84	1.00	0.32	0.75	0.783	0.019	0.718	0.004	Non-parametric	46	No
All	Tetrahydrofuran	MW-25	ug/L	0	8	0.00%	8	2.1875	0.5	0.5	5	17.5	0.5	5	0.5	5	5.42	2.33	0.82	0.64	0.75	0.641	0.000	0.641	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-27	ug/L	0	9	0.00%	9	2	0.5	0.5	6	18	0.5	5	0.5	5	5.06	2.25	0.75	0.86	0.72	0.617	0.000	0.617	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-28	ug/L	0	8	0.00%	8	2.1875	0.5	0.5	5	17.5	0.5	5	0.5	5	5.42	2.33	0.82	0.64	0.75	0.641	0.000	0.641	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-29	ug/L	0	8	0.00%	8	2.1875	0.5	0.5	5	17.5	0.5	5	0.5	5	5.42	2.33	0.82	0.64	0.75	0.641	0.000	0.641	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-30	ug/L	0	8	0.00%	8	2.1875	0.5	0.5	5	17.5	0.5	5	0.5	5	5.42	2.33	0.82	0.64	0.75	0.641	0.000	0.641	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-31	ug/L	0	9	0.00%	9	2.5	0.5	0.5	5	22.5	0.5	5	0.5	5	5.63	2.37	0.79	0.27	0.72	0.655	0.000	0.655	0.000	Non-parametric	46	No
All	Tetrahydrofuran	MW-3A	ug/L	2	8	25.00%	8	3.15	4.35	5	4	25.2	0.5	5	0.5	5	5.01	2.24	0.79	-0.52	0.75	0.715	0.003	0.680	0.001	Non-parametric	46	No
All	Thallium	MW-23	ug/L	1	8	12.50%	8	0.33	0.25	0.25	7	2.64	0.25	0.89	0.25	0.25	0.05	0.23	0.08	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	2	No
Excluded Extremes	Thallium	MW-23	ug/L	0	7	0.00%	7	0.25	0.25	0.25	7	1.75	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Thallium	MW-24	ug/L	1	9	11.11%	9	0.3133333	0.25	0.25	8	2.82	0.25	0.82	0.25	0.25	0.04	0.19	0.06	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	2	No
Excluded Extremes	Thallium	MW-24	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Thallium	MW-27	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Thallium	MW-29	ug/L	3	8	37.50%	8	0.4975	0.25	0.25	5	3.98	0.25	1.23	0.25	0.75	0.15	0.39	0.14	1.36	0.75	0.705	0.003	0.718	0.004	Non-parametric	2	No
All	Thallium	MW-30	ug/L	0	8	0.00%	8	0.25	0.25	0.25	8	2	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Thallium	MW-31	ug/L	0	9	0.00%	9	0.25	0.25	0.25	9	2.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	2	No
All	Tin	MW-23	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-24	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-25	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-27	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-28	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-29	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-30	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-31	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Tin	MW-3A	ug/L	0	3	0.00%	3	50	50	50	3	150	50	50	50	50	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	4000	No
All	Toluene	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-24	ug/L	1	9	11.11%	9	0.7	0.5	0.5	8	6.3	0.5	2.3	0.5	0.5	0.36	0.60	0.20	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	1000	No
Excluded Extremes	Toluene	MW-24	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-27	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Toluene	MW-3A	ug/L	1	8	12.50%	8	6.3125	0.5	0.5	7	50.5	0.5	47	0.5	0.5	270.28	16.44	5.81	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	1000	No
Excluded Extremes	Toluene	MW-3A	ug/L	0	7	0.00%	7	0.5	0.5	0.5	7	3.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	1000	No
All	Vanadium	MW-23	ug/L	2	8	25.00%	8	16.5	7.5	7.5	6	132	7.5	68	7.5	13.25	449.21	21.19	7.49	2.65	0.75	0.515	0.000	0.589	0.000	Non-parametric	60	No
Excluded Extremes	Vanadium	MW-23	ug/L	1	7	14.29%	7	9.1428571	7.5	7.5	6	64	7.5	19	7.5	7.5	18.89	4.35	1.64	2.65	0.79	0.453	0.000	0.453	0.000	Non-parametric	60	No
All	Vanadium	MW-24	ug/L	1	9	11.11%	9	15.333333	7.5	7.5	8	138	7.5	78	7.5	7.5	552.25	23.50	7.83	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	60	No
Excluded Extremes	Vanadium	MW-24	ug/L	0	8	0.00%	8	7.5	7.5	7.5	8	60	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-25	ug/L	0	8	0.00%	8	7.5	7.5	7.5	8	60	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-27	ug/L	0	9	0.00%	9	7.5	7.5	7.5	9	67.5	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-28	ug/L	0	8	0.00%	8	7.5	7.5	7.5	8	60	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-29	ug/L	0	8	0.00%	8	7.5	7.5	7.5	8	60	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No

Table 2b. Descriptive Summary Statistics for Constituents in New Wells with Less than 50% Detects

Type	Analyte	Well	Unit	Det	N	% Det	Valid N	Mean	Median	Mode	Frequency of Mode	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	W-norm	P-norm	W-log	P-log	Distribution	GWQS	Mean Exceeds
All	Vanadium	MW-30	ug/L	0	8	0.00%	8	7.5	7.5	7.5	8	60	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-31	ug/L	0	9	0.00%	9	7.7777778	7.5	7.5	8	70	7.5	10	7.5	7.5	0.69	0.83	0.28	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	60	No
Excluded Extremes	Vanadium	MW-31	ug/L	0	7	0.00%	7	7.5	7.5	7.5	7	52.5	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Vanadium	MW-3A	ug/L	1	8	12.50%	8	11.6875	7.5	7.5	7	93.5	7.5	41	7.5	7.5	140.28	11.84	4.19	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	60	No
Excluded Extremes	Vanadium	MW-3A	ug/L	0	7	0.00%	7	7.5	7.5	7.5	7	52.5	7.5	7.5	7.5	7.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	60	No
All	Xylenes, Total	MW-23	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-24	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-25	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-27	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-28	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-29	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-30	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-31	ug/L	0	9	0.00%	9	0.5	0.5	0.5	9	4.5	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Xylenes, Total	MW-3A	ug/L	0	8	0.00%	8	0.5	0.5	0.5	8	4	0.5	0.5	0.5	0.5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	10000	No
All	Zinc	MW-25	ug/L	1	8	12.50%	8	6.25	5	5	7	50	5	15	5	5	12.50	3.54	1.25	2.83	0.75	0.418	0.000	0.418	0.000	Non-parametric	5000	No
Excluded Extremes	Zinc	MW-25	ug/L	0	7	0.00%	7	5	5	5	7	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5000	No
All	Zinc	MW-27	ug/L	1	9	11.11%	9	6.5555556	5	5	8	59	5	19	5	5	21.78	4.67	1.56	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	5000	No
Excluded Extremes	Zinc	MW-27	ug/L	0	7	0.00%	7	5	5	5	7	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5000	No
All	Zinc	MW-30	ug/L	0	8	0.00%	8	5	5	5	8	40	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5000	No
All	Zinc	MW-31	ug/L	1	9	11.11%	9	6.7777778	5	5	8	61	5	21	5	5	28.44	5.33	1.78	3.00	0.72	0.390	0.000	0.390	0.000	Non-parametric	5000	No
Excluded Extremes	Zinc	MW-31	ug/L	0	7	0.00%	7	5	5	5	7	35	5	5	5	5	0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	5000	No

Notes:

All = All valid records extremes excluded from the calculations
Excluded Extremes = Data set with extremes removed
Well = Monitoring well location
Det. = Number of detections
N = Number of samples
%Det = Detection rate as a percentage
Mean = Arithmetic mean
Median = 50th percentile of the sample population
Mode = The value that occurs most frequently in the sample
Frequency of Mode = How often the mode occurs in the sample
Sum = The sum of all the data from the sample
Minimum = Minimum detected concentration
Maximum = Maximum detected concentration
Lower Quartile = 25th percentile of the sample population
Upper Quartile = 75th percentile of the sample population
Variance = An indication of how possible values are spread around the expected value

Std.Dev. = Standard Deviation
Std.Error = The standard deviation of the mean
Skewness = Measure of skewness of the data distribution; indicates degree of assymetry and direction of the skewness (values greater than 2 indicate significant skew, with negative values indicating left skew, positive values indicating right skew)
Std.Err. Skewness = Measures the deviation of the standard error from symmetry
W-norm = Shapiro-Wilk score for normality
p-norm = p-value from Shapiro-Wilk test for normality, where $p < 0.05$ indicates a non-normal distribution
W-log = Shapiro-Wilk score for lognormality
p-log = p-value from Shapiro-Wilk test for lognormality, where $p < 0.05$ indicates a non-lognormal distribution
Distribution = Type of distribution, based on Shapiro-Wilk test; Normal, Lognormal, and Nonparametric
GWQS = Grounwater Quality Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
pCi/L = picocuries per liter
TDS = Total dissolved solids
NA = Not Applicable, due to lack of detections
NR = Not Run: data set contains extremes or was determined to be normally distributed

Table 3. Constituents Requiring Special Evaluation

Well	Analytes With a Mean in Excess of Applicable GWQS	Mean	GWQS	Analytes with a Statistically Significant Increasing (decreasing pH) Trend[1]
MW-24	Manganese (ug/L)	3991	800	
MW-25	Manganese (ug/L)	1706	800	Cadmium, Manganese
MW-27	Uranium (ug/L)	31.28	30	
MW-28	Manganese (ug/L)	1545	800	
MW-29	Manganese (ug/L)	5034	800	
MW-30	NO3NO2 as N (mg/L)	13.8	10	NO3NO2 as N
MW-31	NO3NO2 as N (mg/L)	23.9	10	
	Selenium (ug/L)	63.3	50	
MW-3A	Manganese (ug/L)	1976	800	Decreasing trend in pH
	Selenium (ug/L)	71.5	50	

Notes:

Tetrahydrofuran was excluded from this list because it has not been detected in wells; rather the MDL has increased resulting in a false increasing trend.

[1] The significance of a correlation coefficient of a particular strength or fit will change depending on the size of the sample from which it was computed. In this report, linear regression trends are considered to be statistically significant if there are enough data points to make a determination and enough of those points fall within the calculated variance of the data set. An ANOVA analysis of the data was performed in order to determine whether the association between the variables is statistically significant at the 95 percent level. In Appendices C and F, significant regressions are noted by red r^2 value.

Table 4. Significant Trending Kendall Tau and Regression (r^2)

Well	Analyte	N	Kendall Tau	Z	p-level	Kendall Tau Significant	Trend	r(x,y)	r^2	t	p	Regression Significant	Trend
MW-25	Cadmium	7				No		0.763	0.582	2.638	0.046	Yes	**Increase**
MW-25	Chloride	8	-0.591	-2.048	0.041	Yes	Decrease					No	
MW-31	Chloride	8	-0.643	-2.227	0.026	Yes	Decrease	-0.708	0.502	-2.457	0.049	Yes	Decrease
MW-27	Gross Alpha minus Rn & U	8	-0.567	-1.964	0.050	Yes	Decrease	-0.722	0.522	-2.558	0.043	Yes	Decrease
MW-23	Manganese	8	-0.643	-2.227	0.026	Yes	Decrease	-0.805	0.648	-3.326	0.016	Yes	Decrease
MW-25	Manganese	8	0.667	2.311	0.021	Yes	**Increase**	0.764	0.584	2.900	0.027	Yes	**Increase**
MW-3A	Manganese	8				No		-0.769	0.591	-2.943	0.026	Yes	Decrease
MW-3A	Nickel	8	-0.567	-1.964	0.050	Yes	Decrease					No	
MW-23	Nitrogen, Ammonia as N	8	-0.857	-2.969	0.003	Yes	Decrease	-0.913	0.833	-5.474	0.002	Yes	Decrease
MW-28	Nitrogen, Ammonia as N	8				No		-0.762	0.580	-2.879	0.028	Yes	Decrease
MW-29	Nitrogen, Ammonia as N	8	-0.618	-2.142	0.032	Yes	Decrease	-0.715	0.511	-2.503	0.046	Yes	Decrease
MW-30	Nitrogen, Nitrate+Nitrite as N	8	0.786	2.722	0.006	Yes	**Increase**	0.904	0.817	5.173	0.002	Yes	**Increase**
MW-3A	pH	8	-0.714	-2.474	0.013	Yes	**Decrease**	-0.860	0.739	-4.124	0.006	Yes	**Decrease**
MW-30	TDS @ 180 C	8	-0.643	-2.227	0.026	Yes	Decrease	-0.790	0.624	-3.158	0.020	Yes	Decrease
MW-24	Uranium	8	-0.857	-2.969	0.003	Yes	Decrease					No	
MW-24	Zinc	8	-0.725	-2.512	0.012	Yes	Decrease	-0.744	0.553	-2.724	0.034	Yes	Decrease

Notes:
N = Valid number of data points
Z = Z distribution
p-level = Statistical significance
r(x,y) = Correlation coefficient used to determine r^2
r^2 = Statistical measure of how well a regression line approximates real data points
t = Student's t distribution
p = Probability

Table 5. Results for all Detected Organic Compounds in the New Wells at White Mesa Mill

Well	Class	Sample Date	Analyte	Result	Qualifier	Detection Limit	GWQS	GWCL	Units	Exceeds GWQS
MW-23	III	6/24/2005	Chloromethane	2.3		1	30	15	µg/L	NO
MW-23	III	9/25/2005	Chloromethane	3.90		1	30	15	µg/L	NO
MW-23	III	12/13/2005	Chloromethane	2.00		1	30	15	µg/L	NO
MW-23	III	12/13/2005	Tetrahydrofuran	6.00		1	46	23	µg/L	NO
MW-23	III	3/22/2006	Chloromethane	6.20		1	30	15	µg/L	NO
MW-23	III	9/18/2006	Chloromethane	3.40		1	30	15	µg/L	NO
MW-23	III	10/24/2006	Chloromethane	2.30		1	30	15	µg/L	NO
MW-24	III	6/23/2005	Acetone	650		20	700	350	µg/L	NO
MW-24	III	6/23/2005	Chloromethane	3.2		1	30	15	µg/L	NO
MW-24	III	6/23/2005	Methyl Ethyl Ketone	47		20	4000	2000	µg/L	NO
MW-24	III	7/26/2005	Acetone	550.00		20	700	350	µg/L	NO
MW-24	III	7/26/2005	Chloromethane	3.00		1	30	15	µg/L	NO
MW-24	III	9/25/2005	Acetone	33.00		20	700	350	µg/L	NO
MW-24	III	9/25/2005	Chloromethane	5.60		1	30	15	µg/L	NO
MW-24	III	12/13/2005	Tetrahydrofuran	7.40		1	46	23	µg/L	NO
MW-24	III	3/27/2006	Chloromethane	7.20		1	30	15	µg/L	NO
MW-24	III	3/27/2006	Toluene	2.30		1	1000	500	µg/L	NO
MW-24	III	9/15/2006	Chloromethane	8.60		1	30	15	µg/L	NO
MW-24	III	10/24/2006	Chloromethane	3.30		1	30	15	µg/L	NO
MW-25	II	6/23/2005	Chloromethane	2.00		1	30	7.5	µg/L	NO
MW-25	II	9/22/2005	Chloromethane	3.50		1	30	7.5	µg/L	NO
MW-25	II	3/22/2006	Chloromethane	5.80		1	30	7.5	µg/L	NO
MW-25	II	9/12/2006	Chloromethane	2.20		1	30	7.5	µg/L	NO
MW-25	II	10/24/2006	Chloromethane	1.60		1	30	7.5	µg/L	NO
MW-27	II	9/22/2005	Chloromethane	3.10		1	30	7.5	µg/L	NO
MW-27	II	3/21/2006	Chloromethane	6.30		1	30	7.5	µg/L	NO
MW-27	II	3/21/2006	Chloromethane	4.40		1	30	7.5	µg/L	NO
MW-27	II	6/21/2006	Chloroform	5.60		1	70	17.5	µg/L	NO
MW-27	II	9/12/2006	Chloromethane	2.70		1	30	7.5	µg/L	NO
MW-27	II	10/24/2006	Chloromethane	1.70		1	30	7.5	µg/L	NO
MW-28	III	6/21/2005	Chloromethane	2.8		1	30	15	µg/L	NO
MW-28	**III**	**7/26/2005**	**Chloroform**	**260.00**	**D**	**50**	**70**	**35**	**µg/L**	**YES**
MW-28	III	9/22/2005	Chloromethane	4.00		1	30	15	µg/L	NO
MW-28	III	12/13/2005	Chloromethane	1.00		1	30	15	µg/L	NO
MW-28	III	6/23/2006	Chloromethane	2.90		1	30	15	µg/L	NO
MW-28	III	9/12/2006	Chloromethane	3.00		1	30	15	µg/L	NO
MW-28	III	10/24/2006	Chloromethane	2.50		1	30	15	µg/L	NO
MW-29	III	6/22/2005	Chloromethane	5.60		1	30	15	µg/L	NO
MW-29	III	9/22/2005	Chloromethane	4.20		1	30	15	µg/L	NO
MW-29	III	3/21/2006	Chloromethane	5.50		1	30	15	µg/L	NO
MW-29	III	6/21/2006	Chloromethane	1.90		1	30	15	µg/L	NO
MW-29	III	9/12/2006	Chloromethane	8.20		1	30	15	µg/L	NO
MW-29	III	10/24/2006	Chloromethane	2.60		1	30	15	µg/L	NO
MW-30	II	6/22/2005	Chloromethane	2.5		1	30	7.5	µg/L	NO
MW-30	II	9/22/2005	Chloromethane	2.50		1	30	7.5	µg/L	NO
MW-30	II	3/22/2006	Chloromethane	3.10		1	30	7.5	µg/L	NO
MW-30	II	9/13/2006	Chloromethane	1.20		1	30	7.5	µg/L	NO
MW-30	II	10/25/2006	Chloromethane	2.20		1	30	7.5	µg/L	NO
MW-31	II	6/22/2005	Chloromethane	2.5		1	30	7.5	µg/L	NO
MW-31	II	9/22/2005	Chloromethane	5.90		1	30	7.5	µg/L	NO
MW-31	II	12/13/2005	Chloromethane	1.30		1	30	7.5	µg/L	NO
MW-31	II	3/22/2006	Chloromethane	4.60		1	30	7.5	µg/L	NO
MW-31	II	6/21/2006	Chloromethane	1.10		1	30	7.5	µg/L	NO
MW-31	II	9/13/2006	Chloromethane	2.10		1	30	7.5	µg/L	NO
MW-31	II	10/25/2006	Chloromethane	1.50		1	30	7.5	µg/L	NO
MW-3A	III	6/23/2005	Chloroform	4.4		1	70	35	µg/L	NO
MW-3A	III	6/23/2005	Chloromethane	2.3		1	30	15	µg/L	NO
MW-3A	III	9/25/2005	Chloroform	2.60		1	70	35	µg/L	NO
MW-3A	III	9/25/2005	Chloromethane	5.80		1	30	15	µg/L	NO
MW-3A	III	12/13/2005	Chloromethane	1.40		1	30	15	µg/L	NO
MW-3A	III	12/13/2005	Tetrahydrofuran	5.00		1	46	23	µg/L	NO
MW-3A	III	3/27/2006	Chloromethane	5.60		1	30	15	µg/L	NO
MW-3A	III	3/27/2006	Toluene	47.00		1	1000	500	µg/L	NO
MW-3A	III	6/25/2006	Chloromethane	2.60		1	30	15	µg/L	NO
MW-3A	III	6/25/2006	Tetrahydrofuran	3.70		1	46	23	µg/L	NO
MW-3A	III	9/19/2006	Chloromethane	3.20		1	30	15	µg/L	NO
MW-3A	III	10/26/2006	Chloromethane	2.90		1	30	15	µg/L	NO

Notes:
GWQS = Groundwater quality standard
GWCL = Groundwater compliance limit

Table 6. Laboratory Analytical Methods

Sample Analysis	Method
Nitrogen, Ammonia as N	A4500-NH3 G
Iron	E200.7
Chloride	A4500-Cl B
Fluoride	A4500-F C
Gross Alpha	E900.1
Metals, other than Iron and Tin	E200.8
Nitrogen, Nitrate + Nitrite	E353.2
pH	A4500-H B
Sulfate	A4500-SO4 E
TDS	A2540 C
Tin	200.7.8-W-D
Uranium	E200.8
VOCs	SW8260B

Table 7. Comparison for Calculated and Measured TDS for Samples with Complete Major Ion Analysis

Well	Sample Date	Total Alkalinity	Calcium	Chloride	Potassium	Manganese	Sodium	Sulfate	Calculated TDS	Measured TDS	Ratio
MW-23	6/24/2005	307	339	3	16.4	119	376	1950	3110.4	3100	100.3%
MW-23	9/25/2005	372	430	10	12.7	150	378	2150	3502.7	3520	99.5%
MW-23	12/14/2005	92	176	1	5.2	60.5	157	875	1366.7	1440	94.9%
MW-23	3/22/2006	329	448	8	11.5	152	379	2240	3567.5	3470	102.8%
MW-23	6/22/2006	274	440	7	13	150	400	2280	3564	3440	103.6%
MW-23	9/18/2006	306	454	6	11.7	152	384	2090	3403.7	3520	96.7%
MW-23	10/24/2006	504	481	6	11.4	163	368	2100	3633.4	2920	124.4%
MW-23	3/14/2007	298	454	9	11.2	154	377	2340	3643.2	3640	100.1%
MW-24	6/23/2005	628	634	71	23.2	186	449	2450	4441.2	4200	105.7%
MW-24	9/25/2005	421	513	52	50.5	190	454	2850	4530.5	4340	104.4%
MW-24	12/14/2005	253	512	45	13.6	194	454	2680	4151.6	4170	99.6%
MW-24	3/27/2006	451	353	47	10	135	309	2470	3775	2910	129.7%
MW-24	6/22/2006	626	450	30	16	170	480	2580	4352	3980	109.3%
MW-24	9/15/2006	436	492	62	14.5	176	461	2290	3931.5	3890	101.1%
MW-24	10/24/2006	399	489	46	14.3	176	458	2680	4262.3	3820	111.6%
MW-24	3/16/2007	387	478	45	13.6	178	425	2520	4046.6	4140	97.7%
MW-25	6/23/2005	392	358	34	9.1	128	282	1600	2803.1	2860	98.0%
MW-25	9/22/2005	403	376	34	9.6	135	285	1670	2912.6	2890	100.8%
MW-25	12/13/2005	396	386	33	10	139	290	1860	3114	2850	109.3%
MW-25	3/22/2006	406	347	32	9.7	122	291	1710	2917.7	2850	102.4%
MW-25	6/20/2006	409	378	32	10.2	138	284	1680	2931.2	2850	102.8%
MW-25	9/12/2006	398	385	30	10.8	135	287	1570	2815.8	2800	100.6%
MW-25	10/24/2006	405	400	33	10	138	295	1880	3161	2740	115.4%
MW-25	3/16/2007	390	386	32	10.1	135	289	1750	2992.1	2970	100.7%
MW-27	6/23/2005	419	151	34	3.9	66.4	72.7	402	1149	1050	109.4%
MW-27	9/22/2005	430	156	35	4	69.3	73.2	403	1170.5	1010	115.9%
MW-27	12/14/2005	439	161	33	4.2	70.8	75.2	398	1181.2	1020	115.8%
MW-27	3/21/2006	439	152	36	3.9	67.6	71.8	362	1132.3	1010	112.1%
MW-27	6/21/2006	436	147	32	5	66.3	79.5	360	1125.8	954	118.0%
MW-27	9/12/2006	423	168	34	4.4	72.3	77.6	417	1196.3	1020	117.3%
MW-27	10/24/2006	446	174	37	4.4	74.6	80.2	432	1248.2	1030	121.2%
MW-27	3/14/2007	429	168	36	4.5	73.3	78.9	420	1209.7	1050	115.2%
MW-28	6/21/2005	155	452	80	11.6	148	302	2010	3158.6	3720	84.9%
MW-28	9/22/2005	152	514	96	10.6	166	286	2310	3534.6	3590	98.5%
MW-28	12/14/2005	165	532	88	12.5	203	303	2380	3683.5	3770	97.7%
MW-28	3/22/2006	152	522	83	11.8	185	298	2320	3571.8	3640	98.1%
MW-28	6/23/2006	174	491	91	12	170	280	2190	3408	3540	96.3%
MW-28	9/12/2006	95	521	73	12.2	190	299	2380	3570.2	3720	96.0%
MW-28	10/24/2006	156	518	86	12.1	184	294	2520	3770.1	3600	104.7%
MW-28	3/15/2007	139	519	97	14.3	192	332	2340	3633.3	3800	95.6%
MW-29	6/22/2005	297	468	40	16.3	222	442	2700	4185.3	4390	95.3%

Table 7. Comparison for Calculated and Measured TDS for Samples with Complete Major Ion Analysis

Well	Sample Date	Total Alkalinity	Calcium	Chloride	Potassium	Manganese	Sodium	Sulfate	Calculated TDS	Measured TDS	Ratio
MW-29	9/22/2005	314	496	39	16.4	230	442	2840	4377.4	4400	99.5%
MW-29	12/14/2005	317	508	36	17.1	238	449	2770	4335.1	4400	98.5%
MW-29	3/21/2006	336	496	41	16.6	236	432	2710	4267.6	4380	97.4%
MW-29	6/21/2006	317	463	38	17.3	227	433	2770	4265.3	4320	98.7%
MW-29	9/12/2006	312	492	37	17.1	230	438	2720	4246.1	4250	99.9%
MW-29	10/24/2006	336	502	39	17.2	234	456	2980	4564.2	4380	104.2%
MW-29	3/15/2007	323	505	39	17.3	236	433	2780	4333.3	4520	95.9%
MW-30	6/22/2005	215	302	125	8.9	83.7	113	977	1824.6	1940	94.1%
MW-30	9/22/2005	207	304	125	8.7	84.8	103	822	1654.5	1780	92.9%
MW-30	12/14/2005	195	316	128	8.5	84.5	102	904	1738	1800	96.6%
MW-30	3/22/2006	195	312	125	8.3	82.4	111	911	1744.7	1740	100.3%
MW-30	6/21/2006	201	324	124	179	76.5	106	876	1886.5	1700	111.0%
MW-30	9/13/2006	209	307	118	8.5	76	110	910	1738.5	1790	97.1%
MW-30	10/25/2006	203	301	124	8.5	78.6	114	871	1700.1	1650	103.0%
MW-30	3/15/2007	190	288	125	8.2	73.7	102	838	1624.9	1690	96.1%
MW-31	6/22/2005	206	156	139	5.6	78.6	90.3	504	1179.5	1290	91.4%
MW-31	9/22/2005	204	166	136	5.8	82.3	93.2	436	1123.3	1280	87.8%
MW-31	12/14/2005	198	179	135	6	86.6	96.1	509	1209.7	1290	93.8%
MW-31	3/22/2006	207	174	133	6.1	87.9	88.4	485	1181.4	1280	92.3%
MW-31	6/21/2006	207	186	138	6.5	87.3	97.6	522	1244.4	1300	95.7%
MW-31	9/13/2006	211	175	131	6.1	82.5	96.1	516	1217.7	1320	92.3%
MW-31	10/25/2006	204	175	127	6.1	85.3	98.7	526	1222.1	1220	100.2%
MW-31	3/15/2007	210	171	132	6.6	86.1	94.6	516	1216.3	1280	95.0%
MW-3A	6/23/2005	170	441	63	26.4	284	698	3380	5062.4	5540	91.4%
MW-3A	9/25/2005	342	471	64	26.6	298	715	3560	5476.6	5560	98.5%
MW-3A	12/14/2005	302	482	60	26.6	314	707	3520	5411.6	5360	101.0%
MW-3A	3/27/2006	323	480	56	26.7	318	706	3490	5399.7	5410	99.8%
MW-3A	6/25/2006	375	440	61	30	280	680	3510	5376	5700	94.3%
MW-3A	9/19/2006	356	467	70	27.7	293	722	3440	5375.7	5580	96.3%
MW-3A	10/26/2006	409	460	57	26.8	288	737	3270	5247.8	5520	95.1%
MW-3A	3/14/2007	381	478	62	26.9	309	754	3810	5820.9	5770	100.9%

Table 8. Charge Balance of Major Cations and Anions

Well	Sample Date	Calcium	Sodium	Magnesium	Potassium	Total Cation Charge	Bicarbonate	Chloride	Sulfate	Nitrate	Total Anion Charge	Percent Difference
MW-23	6/24/2005	16.6	16.4	9.8	0.4	43.2	-5.0	-0.1	-40.6	-0.01	-45.7	-5.9%
MW-23	9/25/2005	21.1	16.4	12.3	0.3	50.2	-6.1	-0.3	-44.8	-0.02	-51.2	-1.9%
MW-23	12/14/2005	8.6	6.8	5.0	0.1	20.6	-1.5	0.0	-18.2	-0.02	-19.8	3.9%
MW-23	3/22/2006	22.0	16.5	12.5	0.3	51.3	-5.4	-0.2	-46.6	-0.01	-52.3	-2.0%
MW-23	6/22/2006	21.6	17.4	12.3	0.3	51.7	-4.5	-0.2	-47.5	-0.02	-52.2	-1.0%
MW-23	9/18/2006	22.3	16.7	12.5	0.3	51.8	-5.0	-0.2	-43.5	-0.02	-48.7	5.9%
MW-23	10/24/2006	23.6	16.0	13.4	0.3	53.3	-8.3	-0.2	-43.7	-0.02	-52.2	2.1%
MW-23	3/14/2007	22.3	16.4	12.7	0.3	51.6	-4.9	-0.3	-48.7	-0.04	-53.9	-4.4%
MW-24	6/23/2005	31.1	19.5	15.3	0.6	66.5	-10.3	-2.0	-51.0	-0.01	-63.3	4.8%
MW-24	9/25/2005	25.1	19.8	15.6	1.3	61.8	-6.9	-1.5	-59.3	-0.02	-67.7	-9.5%
MW-24	12/14/2005	25.1	19.8	16.0	0.3	61.2	-4.1	-1.3	-55.8	-0.06	-61.3	-0.2%
MW-24	3/27/2006	17.3	13.4	11.1	0.3	42.1	-7.4	-1.3	-51.4	-0.01	-60.2	-42.8%
MW-24	6/22/2006	22.1	20.9	14.0	0.4	57.3	-10.3	-0.8	-53.7	-0.01	-64.8	-13.1%
MW-24	9/15/2006	24.1	20.1	14.5	0.4	59.0	-7.1	-1.7	-47.7	-0.01	-56.6	4.2%
MW-24	10/24/2006	24.0	19.9	14.5	0.4	58.7	-6.5	-1.3	-55.8	-0.01	-63.6	-8.3%
MW-24	3/16/2007	23.4	18.5	14.6	0.3	56.9	-6.3	-1.3	-52.5	-0.01	-60.1	-5.6%
MW-25	6/23/2005	17.5	12.3	10.5	0.2	40.6	-6.4	-1.0	-33.3	-0.01	-40.7	-0.3%
MW-25	9/22/2005	18.4	12.4	11.1	0.2	42.2	-6.6	-1.0	-34.8	-0.01	-42.3	-0.4%
MW-25	12/13/2005	18.9	12.6	11.4	0.3	43.2	-6.5	-0.9	-38.7	-0.01	-46.2	-6.8%
MW-25	3/22/2006	17.0	12.7	10.0	0.2	40.0	-6.7	-0.9	-35.6	-0.01	-43.2	-8.0%
MW-25	6/20/2006	18.5	12.4	11.4	0.3	42.5	-6.7	-0.9	-35.0	-0.01	-42.6	-0.2%
MW-25	9/12/2006	18.9	12.5	11.1	0.3	42.7	-6.5	-0.8	-32.7	-0.01	-40.1	6.3%
MW-25	10/24/2006	19.6	12.8	11.4	0.3	44.1	-6.6	-0.9	-39.1	-0.01	-46.7	-6.0%
MW-25	3/16/2007	18.9	12.6	11.1	0.3	42.9	-6.4	-0.9	-36.4	-0.01	-43.7	-2.0%
MW-27	6/23/2005	7.4	3.2	5.5	0.1	16.1	-6.9	-1.0	-8.4	-0.34	-16.5	-2.5%
MW-27	9/22/2005	7.6	3.2	5.7	0.1	16.6	-7.0	-1.0	-8.4	-0.34	-16.8	-0.8%
MW-27	12/14/2005	7.9	3.3	5.8	0.1	17.1	-7.2	-0.9	-8.3	-0.34	-16.8	2.0%
MW-27	3/21/2006	7.5	3.1	5.6	0.1	16.2	-7.2	-1.0	-7.5	-0.36	-16.1	0.8%
MW-27	6/21/2006	7.2	3.5	5.5	0.1	16.2	-7.1	-0.9	-7.5	-0.34	-15.9	2.2%
MW-27	9/12/2006	8.2	3.4	5.9	0.1	17.7	-6.9	-1.0	-8.7	-0.40	-17.0	4.0%
MW-27	10/24/2006	8.5	3.5	6.1	0.1	18.3	-7.3	-1.0	-9.0	-0.38	-17.7	3.0%
MW-27	3/14/2007	8.2	3.4	6.0	0.1	17.8	-7.0	-1.0	-8.7	-0.36	-17.2	3.7%
MW-28	6/21/2005	22.2	13.1	12.2	0.3	47.8	-2.5	-2.3	-41.8	-0.01	-46.7	2.3%
MW-28	9/22/2005	25.2	12.4	13.7	0.3	51.6	-2.5	-2.7	-48.1	-0.01	-53.3	-3.4%
MW-28	12/14/2005	26.1	13.2	16.7	0.3	56.3	-2.7	-2.5	-49.6	-0.01	-54.8	2.7%
MW-28	3/22/2006	25.6	13.0	15.2	0.3	54.1	-2.5	-2.3	-48.3	-0.01	-53.1	1.7%
MW-28	6/23/2006	24.1	12.2	14.0	0.3	50.5	-2.9	-2.6	-45.6	-0.01	-51.0	-0.9%
MW-28	9/12/2006	25.5	13.0	15.6	0.3	54.5	-1.6	-2.1	-49.6	-0.03	-53.2	2.4%
MW-28	10/24/2006	25.4	12.8	15.1	0.3	53.6	-2.6	-2.4	-52.5	-0.01	-57.5	-7.1%
MW-28	3/15/2007	25.4	14.4	15.8	0.4	56.1	-2.3	-2.7	-48.7	-0.01	-53.7	4.1%
MW-29	6/22/2005	22.9	19.2	18.3	0.4	60.9	-4.9	-1.1	-56.2	-0.01	-62.2	-2.2%
MW-29	9/22/2005	24.3	19.2	18.9	0.4	62.9	-5.1	-1.1	-59.1	-0.01	-65.4	-4.0%
MW-29	12/14/2005	24.9	19.5	19.6	0.4	64.5	-5.2	-1.0	-57.7	-0.01	-63.9	0.9%
MW-29	3/21/2006	24.3	18.8	19.4	0.4	63.0	-5.5	-1.2	-56.4	-0.01	-63.1	-0.2%

Table 8. Charge Balance of Major Cations and Anions

Well	Sample Date	Calcium	Sodium	Magnesium	Potassium	Total Cation Charge	Bicarbonate	Chloride	Sulfate	Nitrate	Total Anion Charge	Percent Difference
MW-29	6/21/2006	22.7	18.8	18.7	0.4	60.7	-5.2	-1.1	-57.7	-0.01	-63.9	-5.4%
MW-29	9/12/2006	24.1	19.1	18.9	0.4	62.5	-5.1	-1.0	-56.6	-0.01	-62.8	-0.4%
MW-29	10/24/2006	24.6	19.8	19.3	0.4	64.1	-5.5	-1.1	-62.0	-0.01	-68.7	-7.0%
MW-29	3/15/2007	24.8	18.8	19.4	0.4	63.5	-5.3	-1.1	-57.9	-0.01	-64.3	-1.3%
MW-30	6/22/2005	14.8	4.9	6.9	0.2	26.8	-3.5	-3.5	-20.3	-0.89	-28.3	-5.4%
MW-30	9/22/2005	14.9	4.5	7.0	0.2	26.6	-3.4	-3.5	-17.1	-0.91	-24.9	6.2%
MW-30	12/14/2005	15.5	4.4	7.0	0.2	27.1	-3.2	-3.6	-18.8	-0.97	-26.6	1.8%
MW-30	3/22/2006	15.3	4.8	6.8	0.2	27.1	-3.2	-3.5	-19.0	-0.99	-26.7	1.6%
MW-30	6/21/2006	15.9	4.6	6.3	4.6	31.4	-3.3	-3.5	-18.2	-1.04	-26.1	16.9%
MW-30	9/13/2006	15.0	4.8	6.3	0.2	26.3	-3.4	-3.3	-18.9	-1.01	-26.7	-1.5%
MW-30	10/25/2006	14.8	5.0	6.5	0.2	26.4	-3.3	-3.5	-18.1	-1.04	-26.0	1.5%
MW-30	3/15/2007	14.1	4.4	6.1	0.2	24.8	-3.1	-3.5	-17.4	-1.03	-25.1	-1.2%
MW-31	6/22/2005	7.6	3.9	6.5	0.1	18.2	-3.4	-3.9	-10.5	-1.73	-19.5	-7.3%
MW-31	9/22/2005	8.1	4.1	6.8	0.1	19.1	-3.3	-3.8	-9.1	-1.60	-17.9	6.6%
MW-31	12/14/2005	8.8	4.2	7.1	0.2	20.2	-3.2	-3.8	-10.6	-1.70	-19.4	4.4%
MW-31	3/22/2006	8.5	3.8	7.2	0.2	19.8	-3.4	-3.8	-10.1	-1.72	-19.0	4.1%
MW-31	6/21/2006	9.1	4.2	7.2	0.2	20.7	-3.4	-3.9	-10.9	-1.81	-20.0	3.6%
MW-31	9/13/2006	8.6	4.2	6.8	0.2	19.7	-3.5	-3.7	-10.7	-1.76	-19.7	0.3%
MW-31	10/25/2006	8.6	4.3	7.0	0.2	20.0	-3.3	-3.6	-11.0	-1.79	-19.7	1.9%
MW-31	3/15/2007	8.4	4.1	7.1	0.2	19.8	-3.4	-3.7	-10.7	-1.57	-19.5	1.4%
MW-3A	6/23/2005	21.6	30.4	23.4	0.7	76.0	-2.8	-1.8	-70.4	-0.06	-75.0	1.4%
MW-3A	9/25/2005	23.1	31.1	24.5	0.7	79.4	-5.6	-1.8	-74.1	-0.01	-81.5	-2.7%
MW-3A	12/14/2005	23.6	30.8	25.8	0.7	80.9	-5.0	-1.7	-73.3	-0.08	-80.0	1.1%
MW-3A	3/27/2006	23.5	30.7	26.2	0.7	81.1	-5.3	-1.6	-72.7	-0.07	-79.6	1.8%
MW-3A	6/25/2006	21.6	29.6	23.0	0.8	75.0	-6.1	-1.7	-73.1	-0.07	-81.0	-8.1%
MW-3A	9/19/2006	22.9	31.4	24.1	0.7	79.1	-5.8	-2.0	-71.6	-0.09	-79.5	-0.5%
MW-3A	10/26/2006	22.5	32.1	23.7	0.7	79.0	-6.7	-1.6	-68.1	-0.06	-76.5	3.2%
MW-3A	3/14/2007	23.4	32.8	25.4	0.7	82.4	-6.2	-1.7	-79.3	-0.06	-87.4	-6.1%

Table 9. Relative Percent Difference Between Primary and Duplicate Samples

Analyte	Date	Well	Result	Type	Result	Units	RPD
Acetone	3/21/2006	MW-27	20	Duplicate	20	ug/L	0.0%
Acetone	3/15/2007	MW-31	20	Duplicate	20	ug/L	0.0%
Arsenic	3/21/2006	MW-27	5	Duplicate	5	ug/L	0.0%
Arsenic	3/15/2007	MW-31	5	Duplicate	5	ug/L	0.0%
Benzene	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Benzene	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Beryllium	3/21/2006	MW-27	0.5	Duplicate	0.5	ug/L	0.0%
Beryllium	3/15/2007	MW-31	0.5	Duplicate	0.5	ug/L	0.0%
Cadmium	3/21/2006	MW-27	0.5	Duplicate	0.5	ug/L	0.0%
Cadmium	3/15/2007	MW-31	0.5	Duplicate	0.5	ug/L	0.0%
Carbon tetrachloride	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Carbon tetrachloride	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Chloride	3/21/2006	MW-27	34	Duplicate	36	mg/L	5.9%
Chloride	3/15/2007	MW-31	132	Duplicate	132	mg/L	0.0%
Chloroform	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Chloroform	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Chloromethane	3/21/2006	MW-27	4.4	Duplicate	6.3	ug/L	43.2%
Chloromethane	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Chromium	3/21/2006	MW-27	25	Duplicate	25	ug/L	0.0%
Chromium	3/15/2007	MW-31	25	Duplicate	25	ug/L	0.0%
Cobalt	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Cobalt	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%
Copper	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Copper	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%
Fluoride	3/21/2006	MW-27	0.8	Duplicate	0.8	mg/L	0.0%
Fluoride	3/15/2007	MW-31	0.9	Duplicate	1	mg/L	11.1%
Gross Alpha minus Rn & U	3/21/2006	MW-27	1.1	Duplicate	1	pCi/L	9.1%
Gross Alpha minus Rn & U	3/15/2007	MW-31	1	Duplicate	1	pCi/L	0.0%
Iron	3/21/2006	MW-27	30	Duplicate	30	ug/L	0.0%
Iron	3/15/2007	MW-31	30	Duplicate	30	ug/L	0.0%
Lead	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Lead	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Manganese	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Manganese	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%
Mercury	3/21/2006	MW-27	0.5	Duplicate	0.5	ug/L	0.0%
Mercury	3/15/2007	MW-31	0.5	Duplicate	0.5	ug/L	0.0%
Methyl Ethyl Ketone	3/21/2006	MW-27	20	Duplicate	20	ug/L	0.0%
Methyl Ethyl Ketone	3/15/2007	MW-31	20	Duplicate	20	ug/L	0.0%
Molybdenum	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Molybdenum	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%
Naphthalene	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Naphthalene	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Nickel	3/21/2006	MW-27	20	Duplicate	20	ug/L	0.0%
Nickel	3/15/2007	MW-31	20	Duplicate	20	ug/L	0.0%
Nitrogen, Ammonia as N	3/21/2006	MW-27	0.08	Duplicate	0.09	mg/L	12.5%
Nitrogen, Ammonia as N	3/15/2007	MW-31	0.05	Duplicate	0.05	mg/L	0.0%
Nitrogen, Nitrate+Nitrite as N	3/21/2006	MW-27	5.1	Duplicate	5.5	mg/L	7.8%
Nitrogen, Nitrate+Nitrite as N	3/15/2007	MW-31	22	Duplicate	23.2	mg/L	5.5%
PH	3/21/2006	MW-27	7.86	Duplicate	8.06	SU	2.5%
PH	3/15/2007	MW-31	6.79	Duplicate	6.77	SU	0.3%
Selenium	3/21/2006	MW-27	10.2	Duplicate	9.4	ug/L	7.8%
Selenium	3/15/2007	MW-31	59.2	Duplicate	60.3	ug/L	1.9%
Silver	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Silver	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%
Sulfate	3/21/2006	MW-27	362	Duplicate	362	mg/L	0.0%
Sulfate	3/15/2007	MW-31	516	Duplicate	514	mg/L	0.4%
TDS @ 180 C	3/21/2006	MW-27	1010	Duplicate	1010	mg/L	0.0%
TDS @ 180 C	3/15/2007	MW-31	1280	Duplicate	1280	mg/L	0.0%
Tetrahydrofuran	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Tetrahydrofuran	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%

Table 9. Relative Percent Difference Between Primary and Duplicate Samples

Analyte	Date	Well	Result	Type	Result	Units	RPD
Thallium	3/21/2006	MW-27	0.5	Duplicate	0.5	ug/L	0.0%
Thallium	3/15/2007	MW-31	0.5	Duplicate	0.5	ug/L	0.0%
Toluene	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Toluene	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Uranium	3/21/2006	MW-27	31.3	Duplicate	31.7	ug/L	1.3%
Uranium	3/15/2007	MW-31	7.6	Duplicate	7.43	ug/L	2.2%
Vanadium	3/21/2006	MW-27	15	Duplicate	15	ug/L	0.0%
Vanadium	3/15/2007	MW-31	15	Duplicate	15	ug/L	0.0%
Xylenes, Total	3/21/2006	MW-27	1	Duplicate	1	ug/L	0.0%
Xylenes, Total	3/15/2007	MW-31	1	Duplicate	1	ug/L	0.0%
Zinc	3/21/2006	MW-27	10	Duplicate	10	ug/L	0.0%
Zinc	3/15/2007	MW-31	10	Duplicate	10	ug/L	0.0%

Notes:
mg/L = Milligrams per liter
pCi/L = Picocuries per liter
µg/L = Micrograms per liter
RPD = Relative percent difference

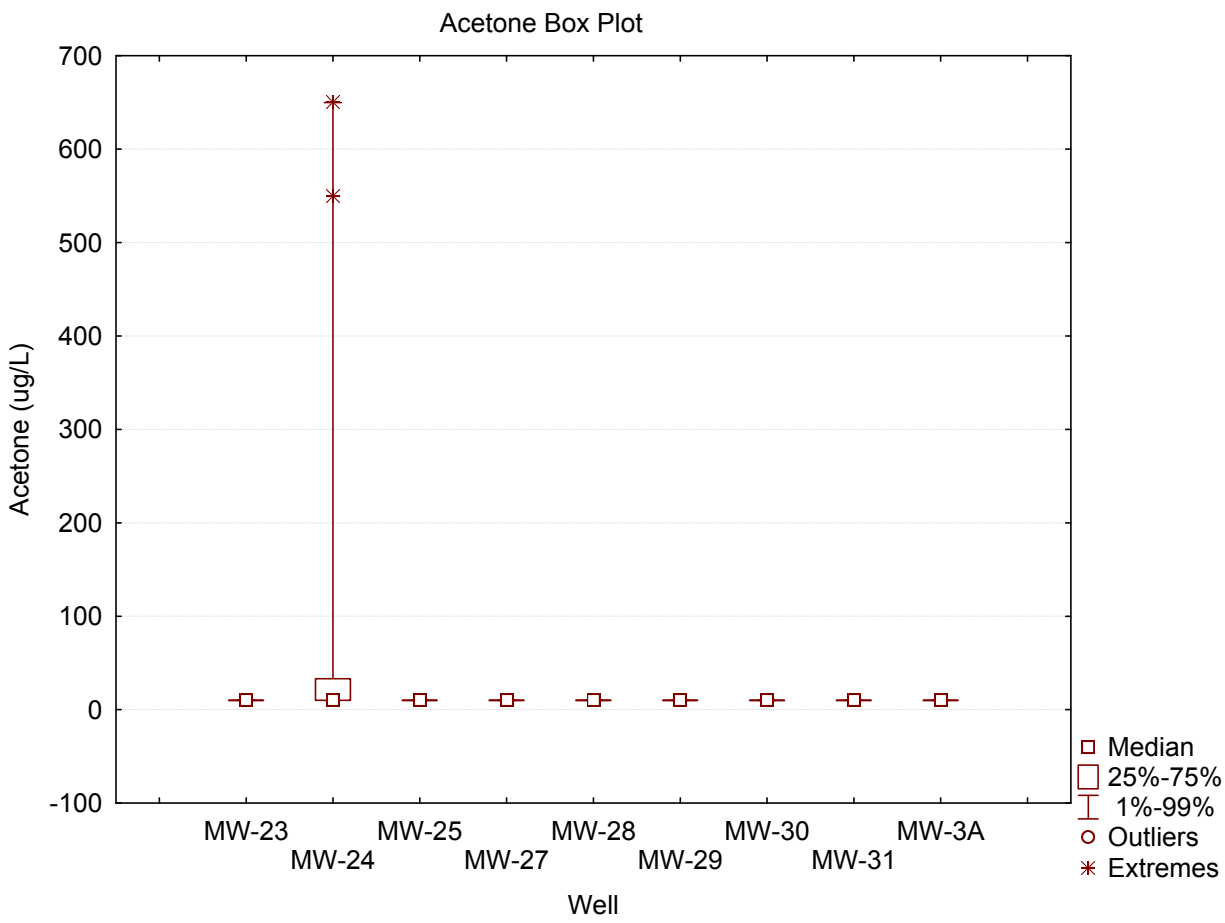
Table 10. Extremes Flagged and Removed from Statistical Analysis

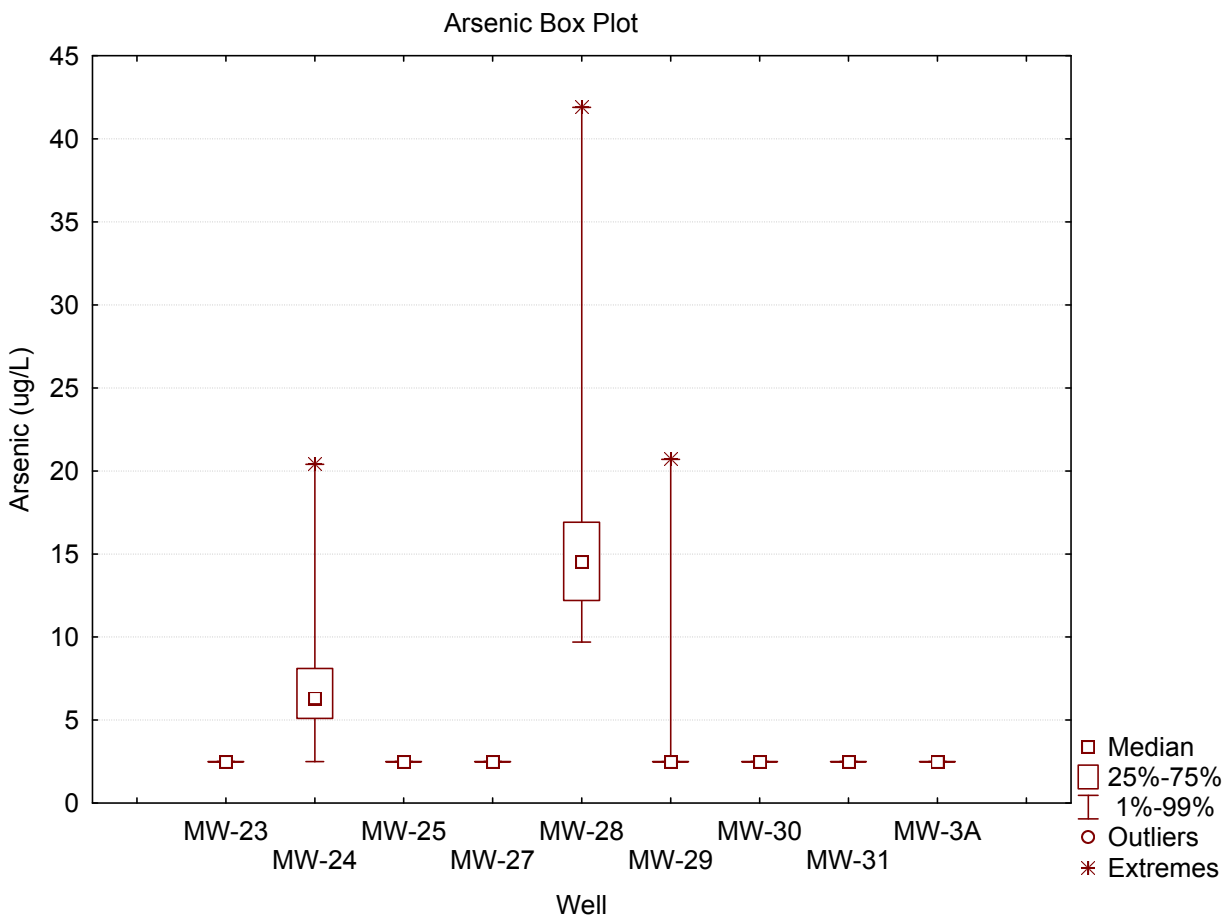
Well	Date	Type	Analyte	Result	Unit
MW-24	6/23/2005		Acetone	650	ug/L
MW-24	7/26/2005		Acetone	550	ug/L
MW-24	7/26/2005		Arsenic	20.4	ug/L
MW-28	9/12/2006		Arsenic	41.9	ug/L
MW-29	12/14/2005		Arsenic	20.7	ug/L
MW-24	6/23/2005		Beryllium	1.3	ug/L
MW-29	6/22/2005		Beryllium	1.78	ug/L
MW-24	6/23/2005		Cadmium	0.7	ug/L
MW-25	3/22/2006		Cadmium	2.78	ug/L
MW-29	12/14/2005		Cadmium	0.85	ug/L
MW-30	3/22/2006		Cadmium	1.26	ug/L
MW-30	9/13/2006		Chloride	118	mg/L
MW-27	6/21/2006		Chloroform	5.6	ug/L
MW-28	7/26/2005		Chloroform	260	ug/L
MW-23	6/24/2005		Cobalt	24	ug/L
MW-29	12/14/2005		Cobalt	19	ug/L
MW-3A	12/14/2005		Copper	14	ug/L
MW-24	6/23/2005		Fluoride	0.4	mg/L
MW-31	6/22/2005		Fluoride	0.8	mg/L
MW-31	12/14/2005		Fluoride	0.8	mg/L
MW-31	10/25/2006		Fluoride	1.2	mg/L
MW-31	3/15/2007	Duplicate	Fluoride	1	mg/L
MW-3A	9/19/2006		Fluoride	0.05	mg/L
MW-25	6/23/2005		Gross Alpha minus Rn & U	1.4	pCi/L
MW-31	9/22/2005		Gross Alpha minus Rn & U	1.1	pCi/L
MW-3A	6/23/2005		Gross Alpha minus Rn & U	1.6	pCi/L
MW-23	9/18/2006		Iron	150	ug/L
MW-24	6/23/2005		Iron	10300	ug/L
MW-24	12/14/2005		Iron	4730	ug/L
MW-3A	9/25/2005		Iron	699	ug/L
MW-24	6/23/2005		Lead	18.6	ug/L
MW-24	9/25/2005		Lead	1.5	ug/L
MW-27	3/21/2006	Duplicate	Lead	1	ug/L
MW-30	12/14/2005		Lead	1.3	ug/L
MW-29	12/14/2005		Manganese	25000	ug/L
MW-24	6/23/2005		Mercury	0.77	ug/L
MW-24	3/27/2006		Mercury	0.93	ug/L
MW-24	6/23/2005		Methyl Ethyl Ketone	47	ug/L
MW-23	6/24/2005		Molybdenum	12	ug/L
MW-24	12/14/2005		Molybdenum	22	ug/L
MW-25	6/23/2005		Molybdenum	5	ug/L
MW-29	12/14/2005		Molybdenum	13	ug/L
MW-24	6/23/2005		Nickel	32	ug/L
MW-24	9/25/2005		Nickel	56	ug/L
MW-29	12/14/2005		Nickel	22	ug/L
MW-24	6/23/2005		Nitrogen, Ammonia as N	35.8	mg/L
MW-31	3/22/2006		Nitrogen, Ammonia as N	0.05	mg/L
MW-31	6/21/2006		Nitrogen, Ammonia as N	0.05	mg/L
MW-23	6/24/2005		Nitrogen, Nitrate+Nitrite as N	0.05	mg/L
MW-23	3/14/2007		Nitrogen, Nitrate+Nitrite as N	0.6	mg/L
MW-3A	9/25/2005		Nitrogen, Nitrate+Nitrite as N	0.05	mg/L
MW-3A	12/14/2005		Selenium	2.5	ug/L

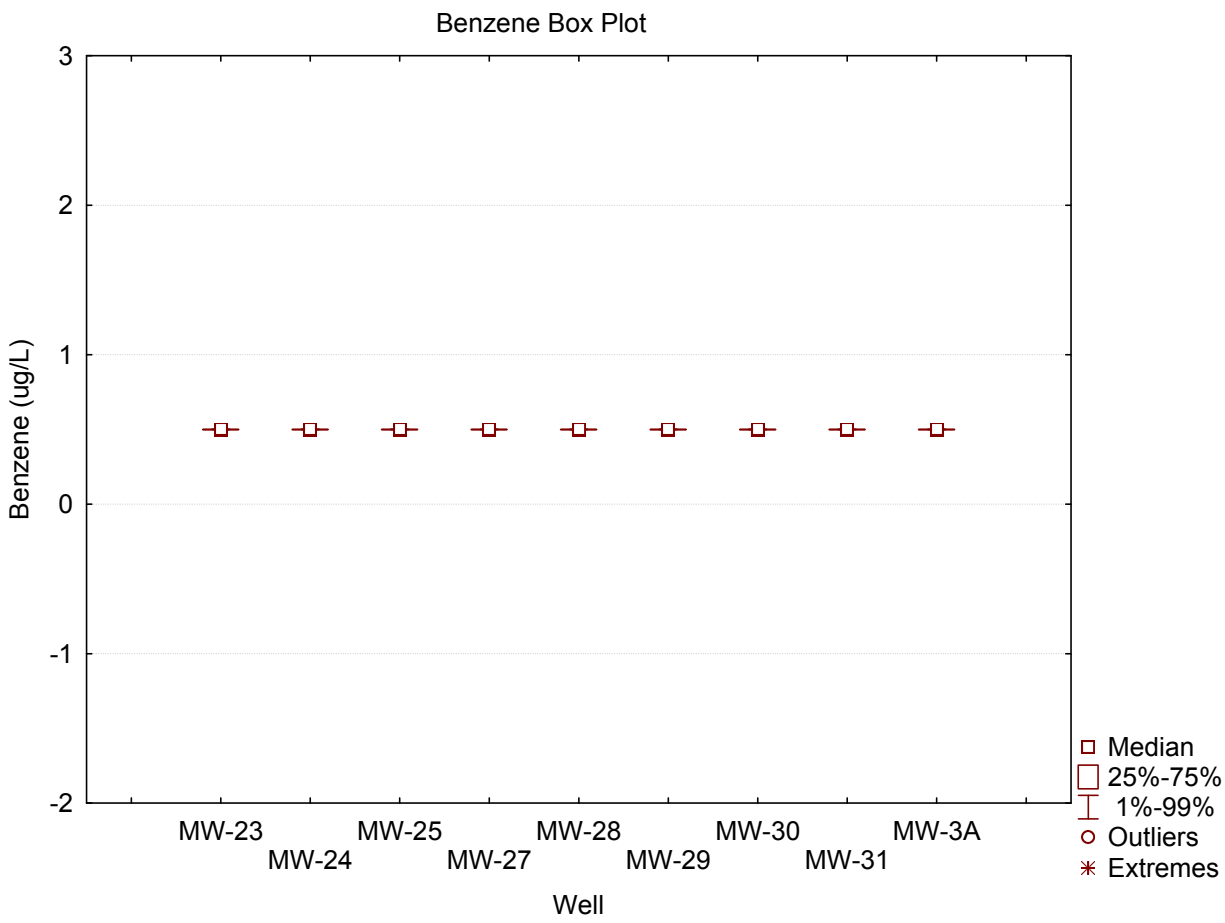
Table 10. Extremes Flagged and Removed from Statistical Analysis

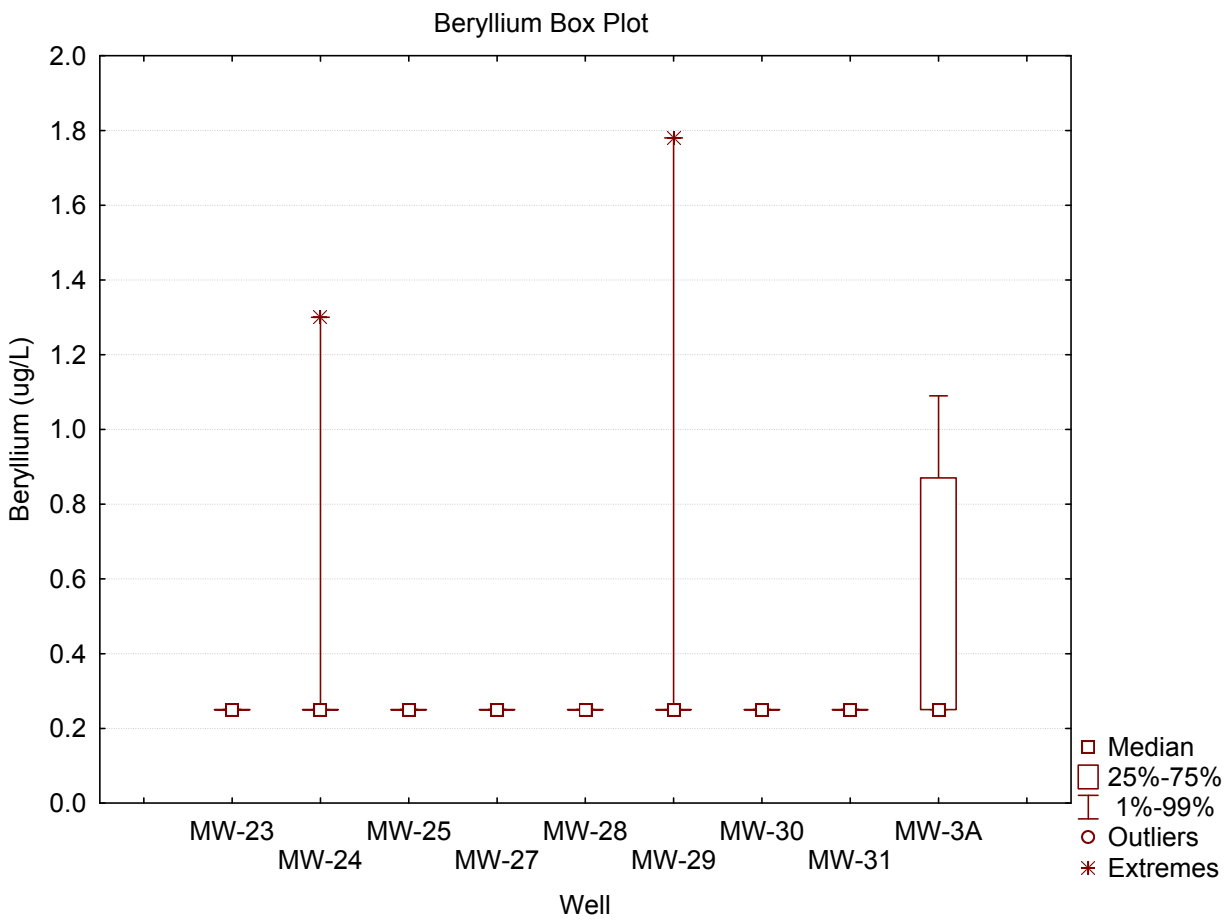
Well	Date	Type	Analyte	Result	Unit
MW-23	12/14/2005		Sulfate	875	mg/L
MW-31	9/22/2005		Sulfate	436	mg/L
MW-23	12/14/2005		TDS @ 180 C	1440	mg/L
MW-31	10/25/2006		TDS @ 180 C	1220	mg/L
MW-23	10/24/2006		Thallium	0.89	ug/L
MW-24	12/14/2005		Thallium	0.82	ug/L
MW-24	3/27/2006		Toluene	2.3	ug/L
MW-3A	3/27/2006		Toluene	47	ug/L
MW-23	6/24/2005		Uranium	78.9	ug/L
MW-24	9/25/2005		Uranium	223	ug/L
MW-29	12/14/2005		Uranium	49	ug/L
MW-23	6/24/2005		Vanadium	68	ug/L
MW-24	6/23/2005		Vanadium	78	ug/L
MW-31	6/21/2006		Vanadium	10	ug/L
MW-3A	6/23/2005		Vanadium	41	ug/L
MW-23	6/24/2005		Zinc	296	ug/L
MW-24	6/23/2005		Zinc	108	ug/L
MW-25	9/12/2006		Zinc	15	ug/L
MW-27	6/21/2006		Zinc	19	ug/L
MW-31	10/25/2006		Zinc	21	ug/L

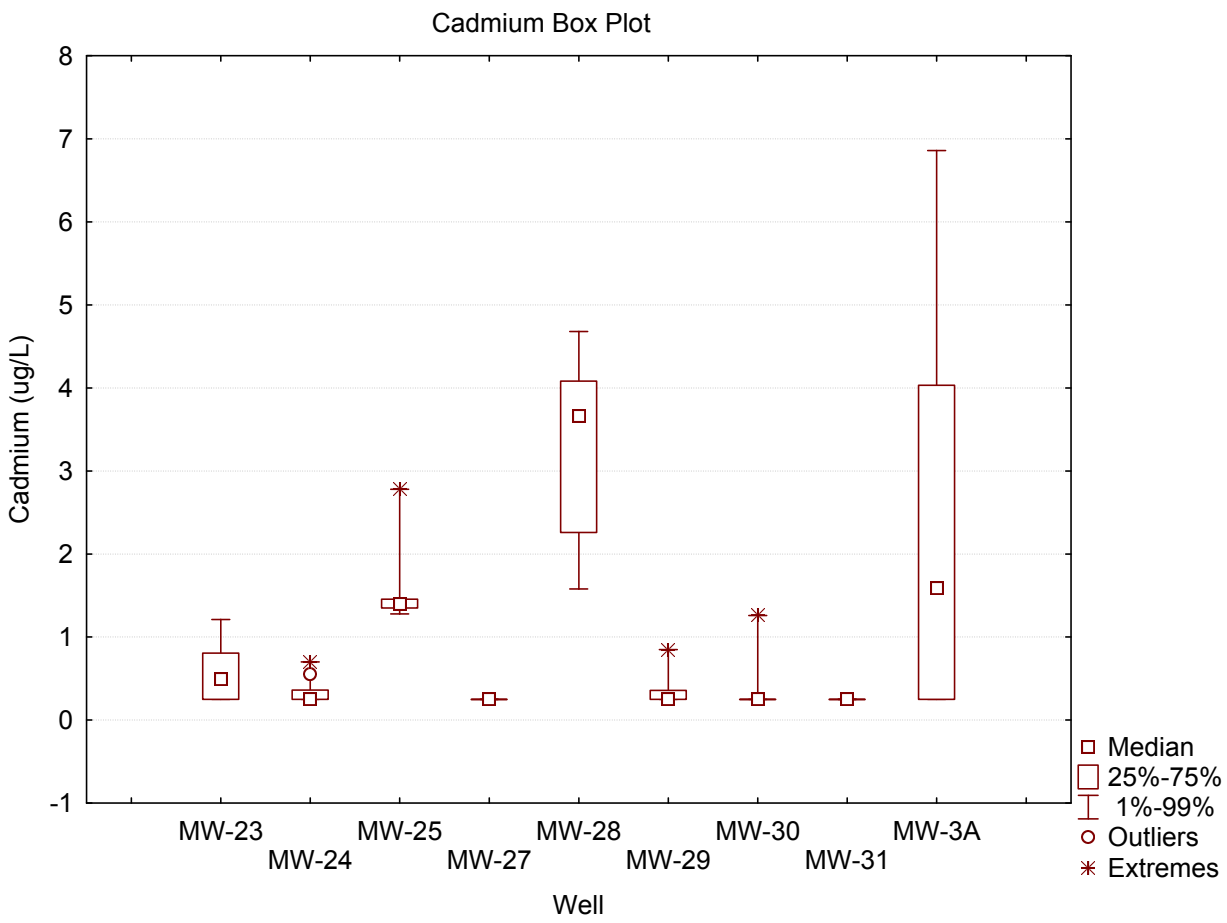
Notes:
mg/L = Milligrams per liter
pCi/L = Picocuries per liter
µg/L = Micrograms per liter

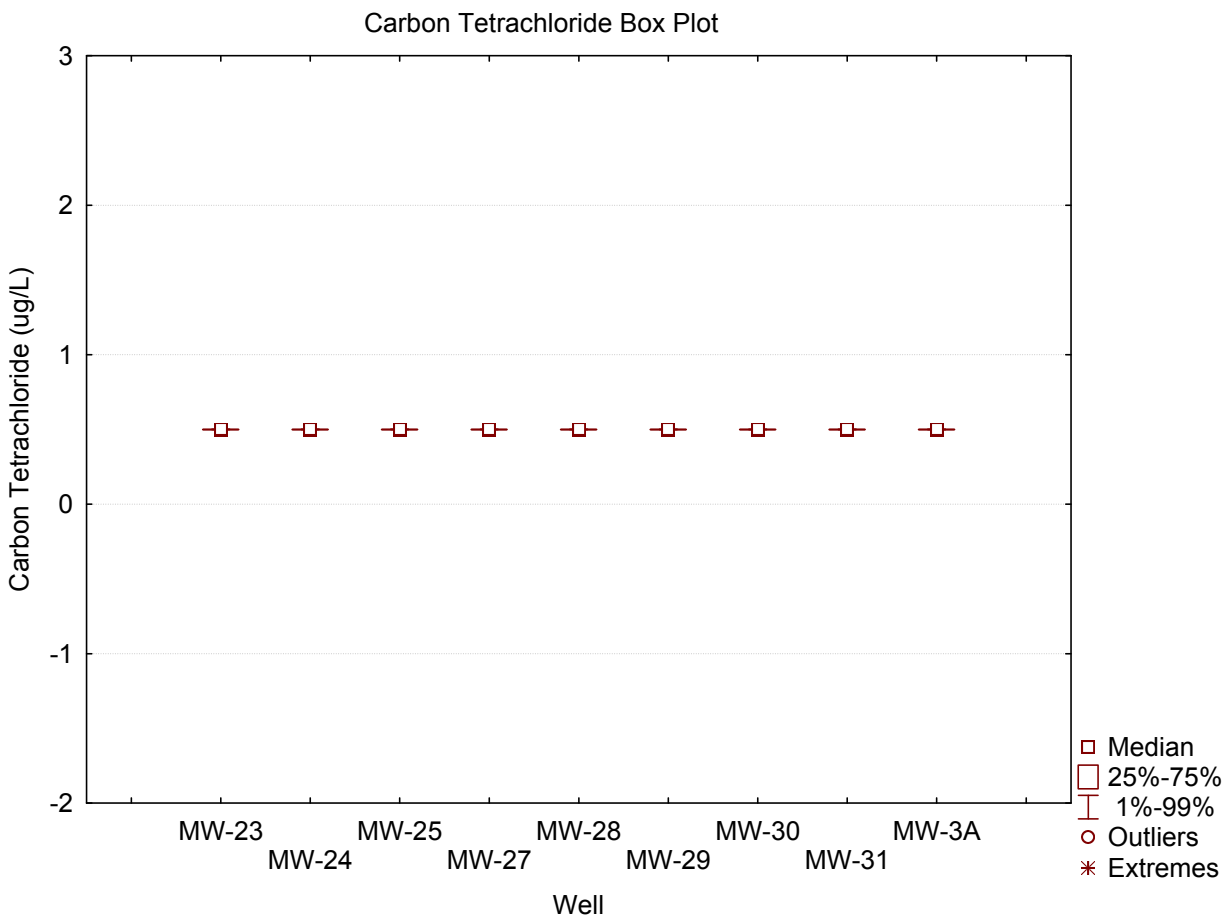

Acetone Box Plot
Acetone (ug/L)
700
600
500
400
300
200
100
0
-100
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

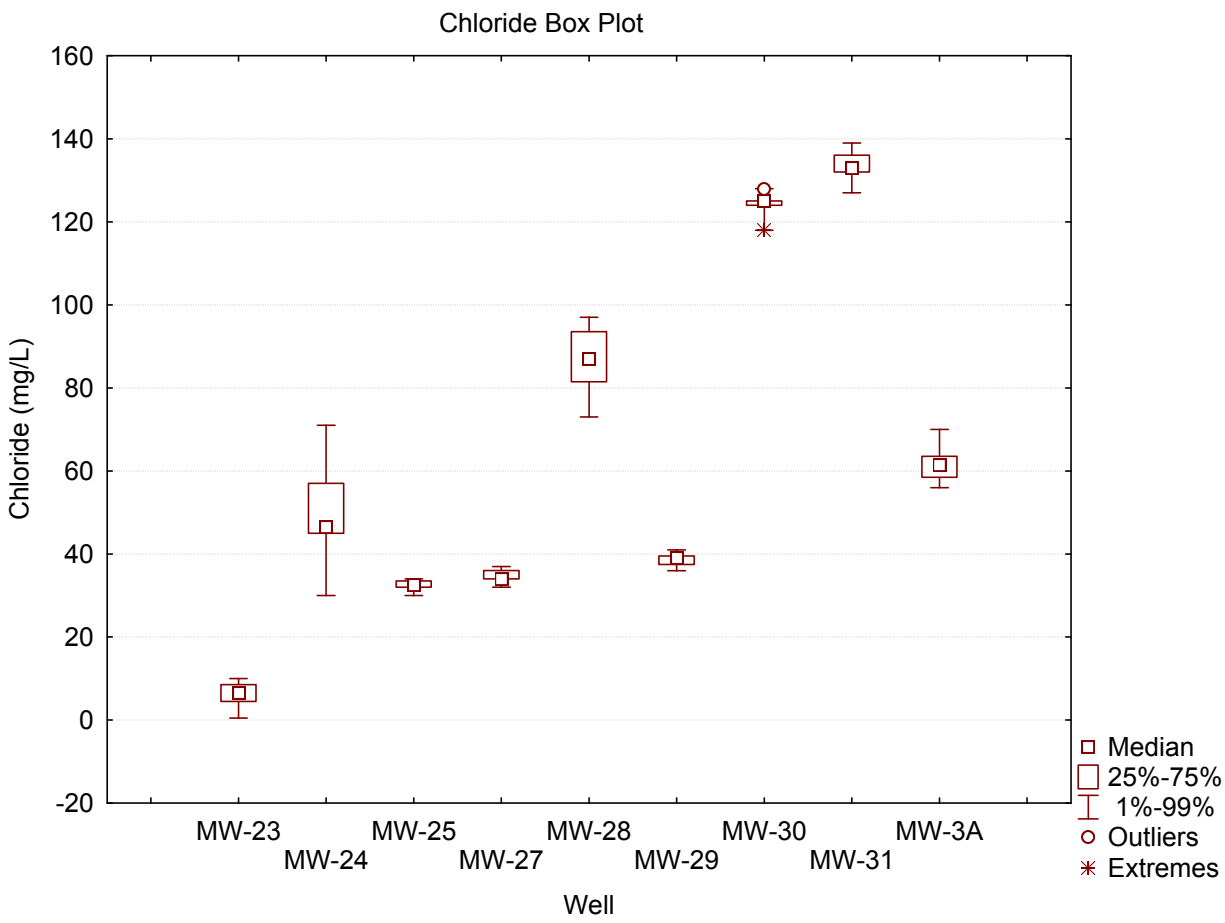

Arsenic Box Plot
Arsenic (ug/L)
45
40
35
30
25
20
15
10
5
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

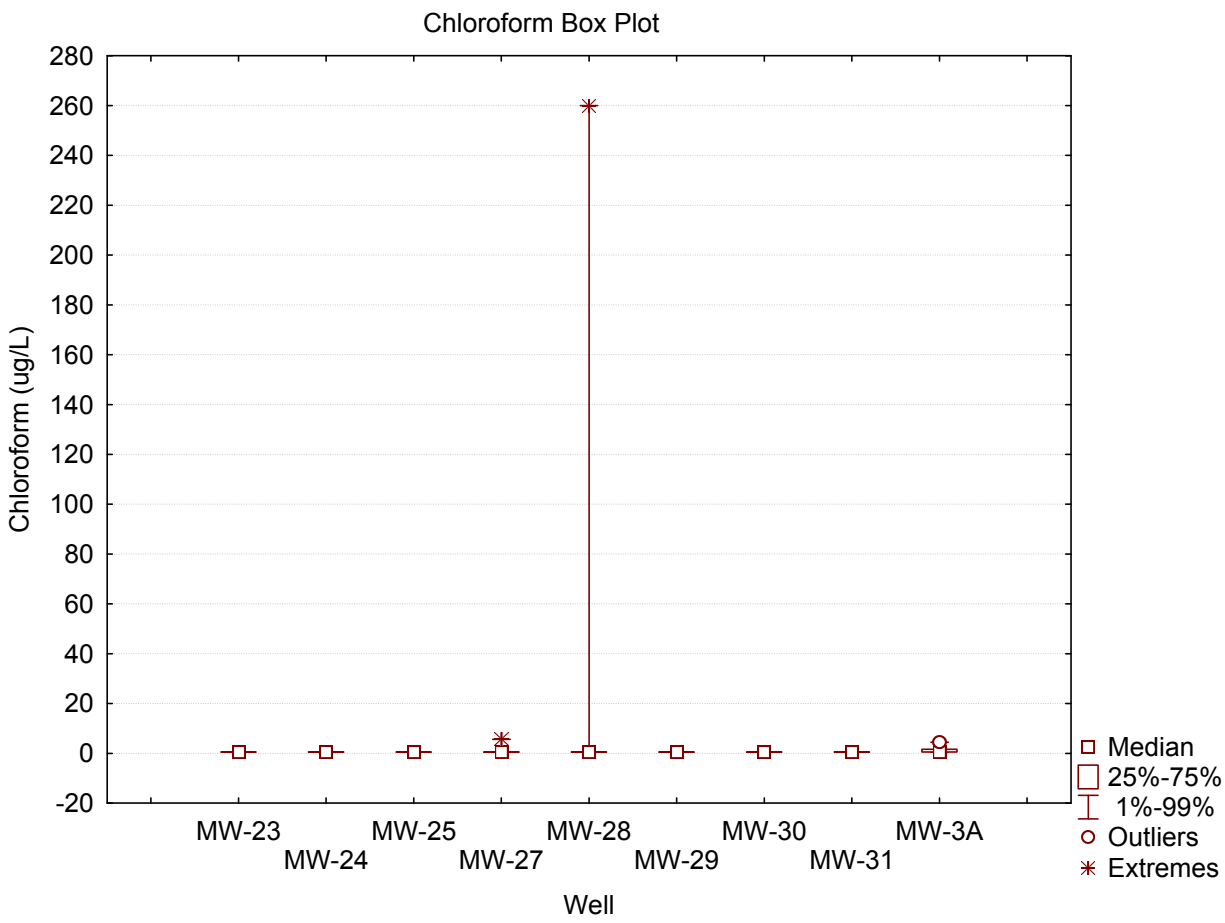

Benzene Box Plot
3
2
1
0
-1
-2
Benzene (ug/L)
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

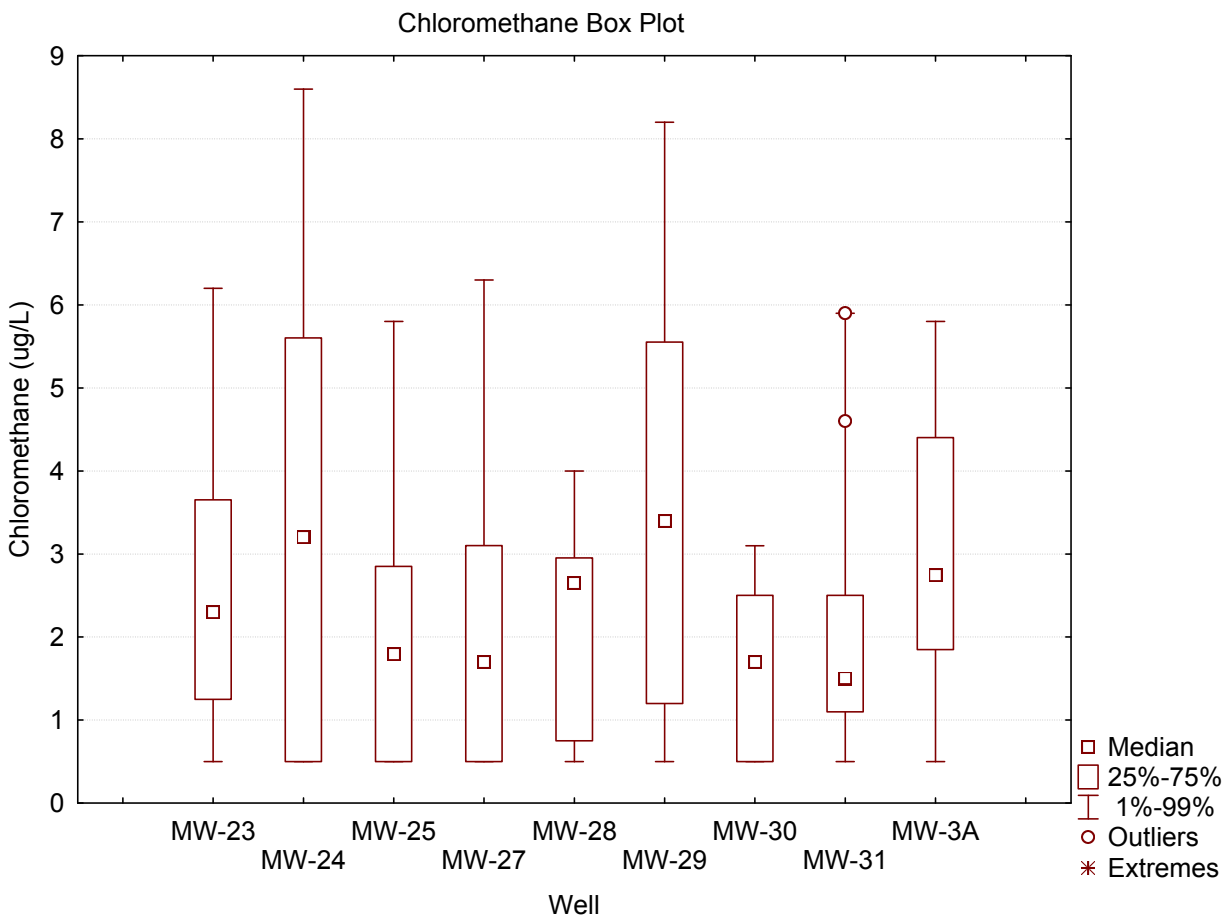

Beryllium Box Plot
Beryllium (ug/L)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

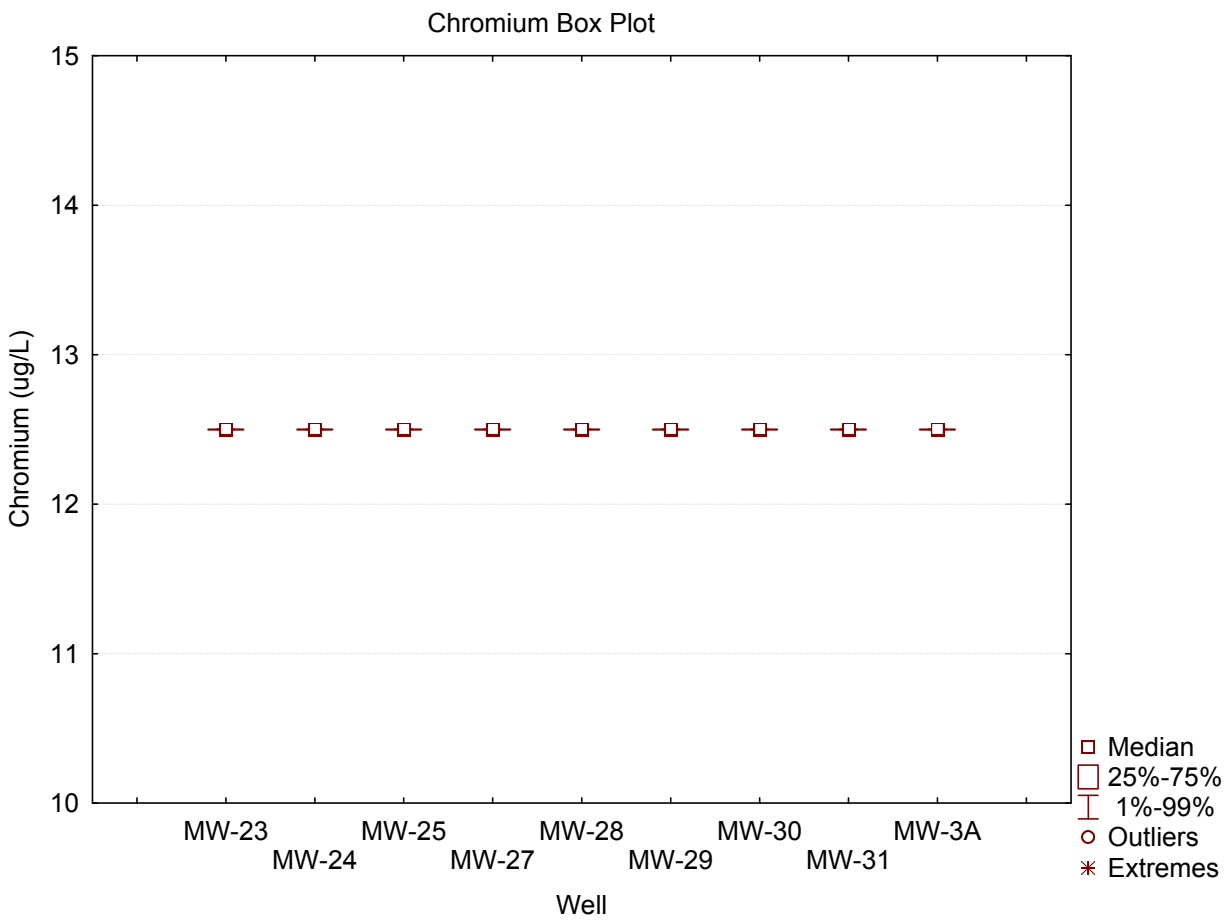

Cadmium Box Plot
Cadmium (ug/L)
8
7
6
5
4
3
2
1
0
-1
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

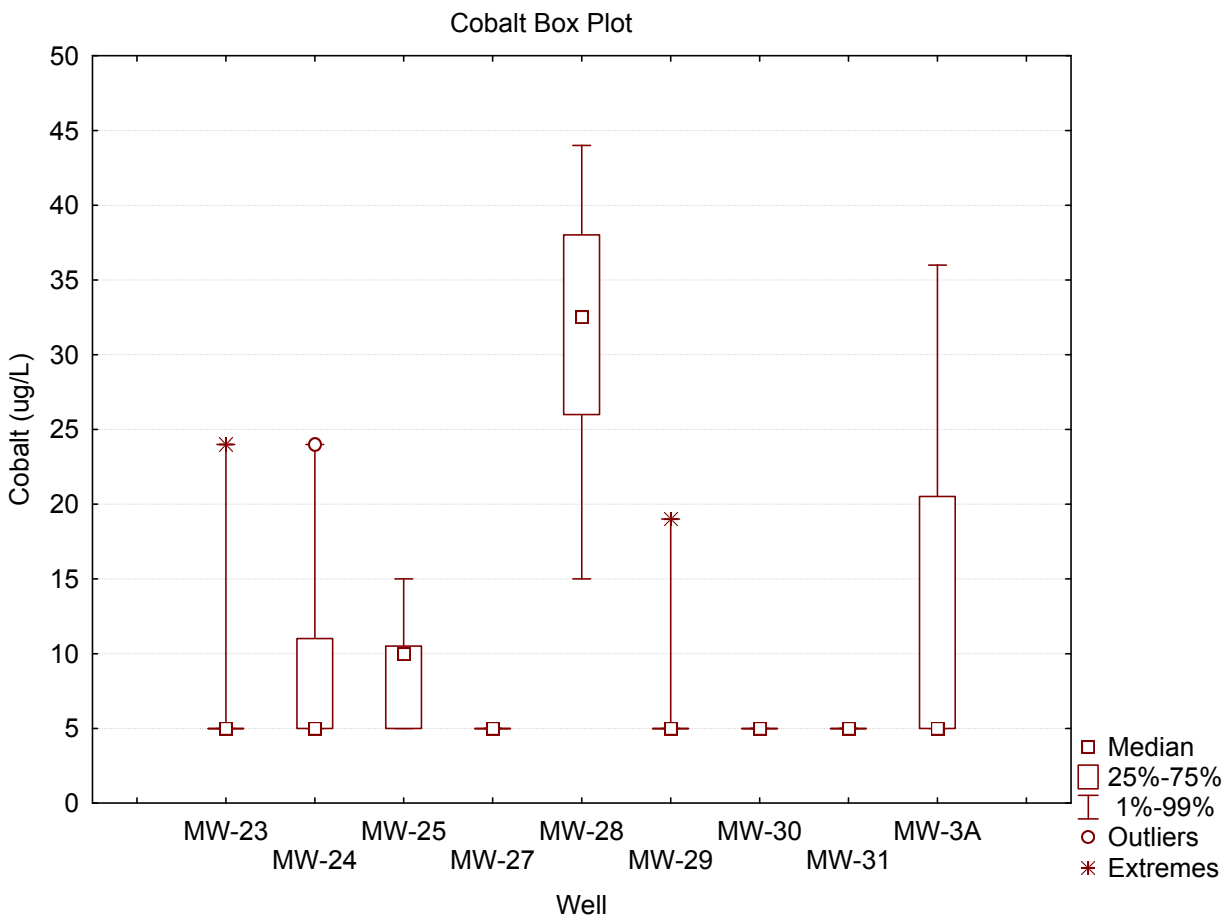

Carbon Tetrachloride Box Plot
Carbon Tetrachloride (ug/L)
3
2
1
0
-1
-2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

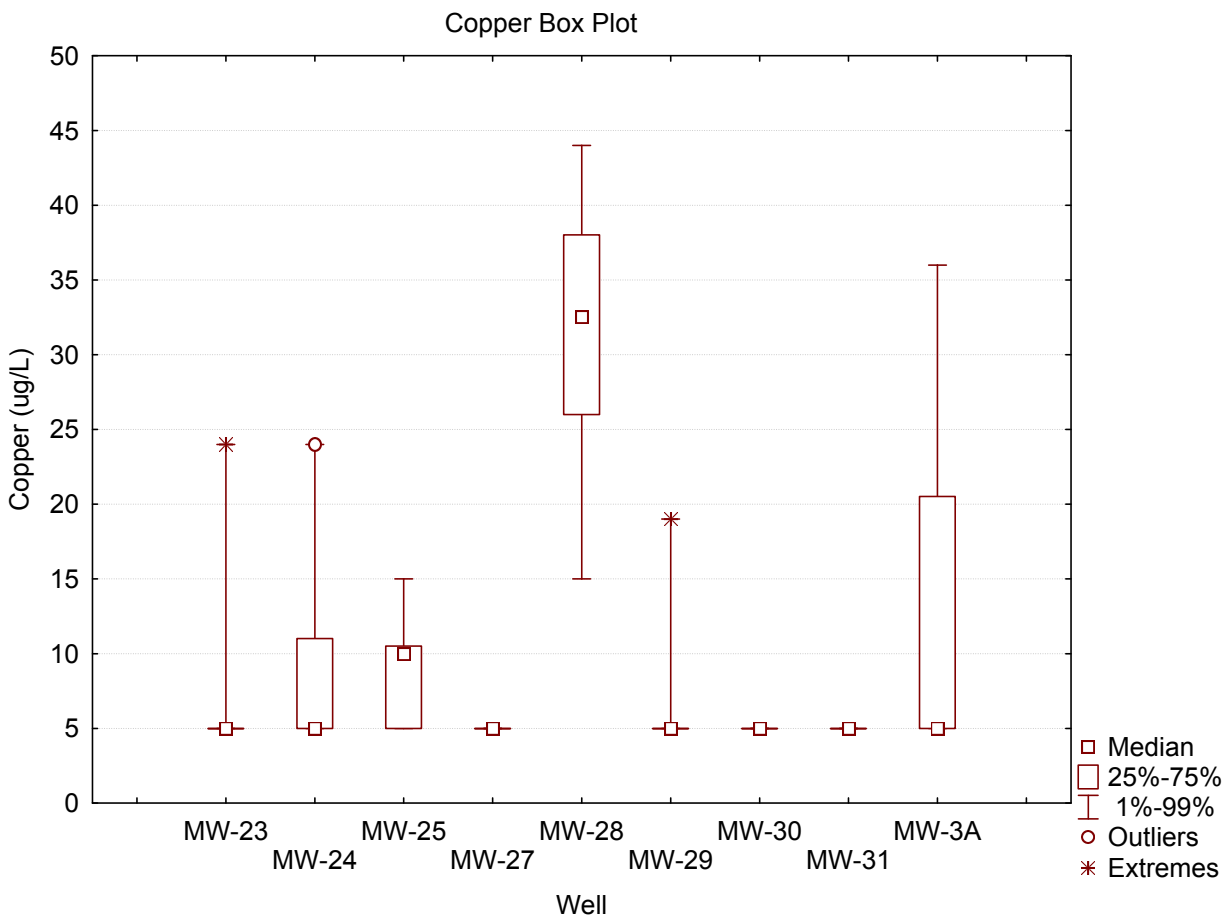

Chloride Box Plot
Chloride (mg/L)
160
140
120
100
80
60
40
20
0
-20
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

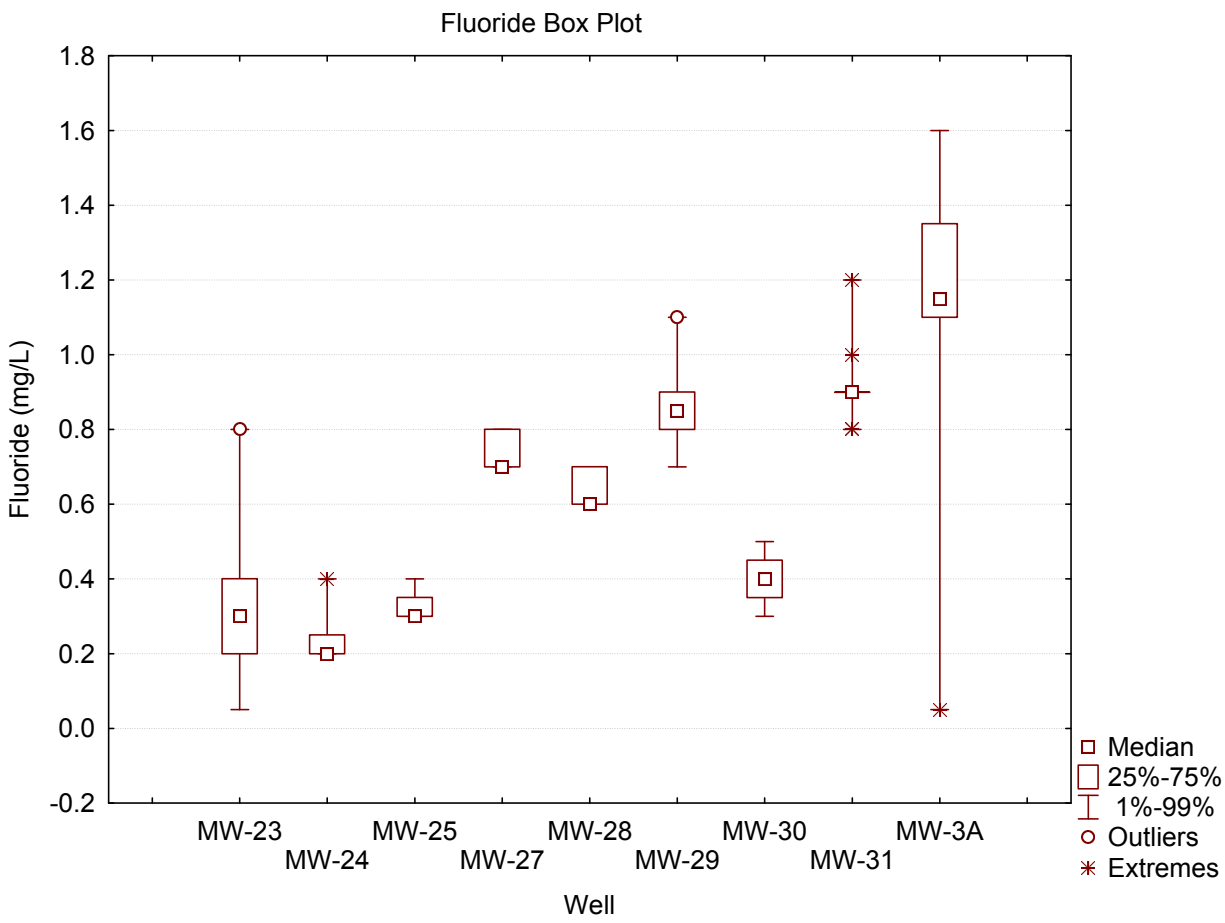

Chloroform Box Plot
Chloroform (ug/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

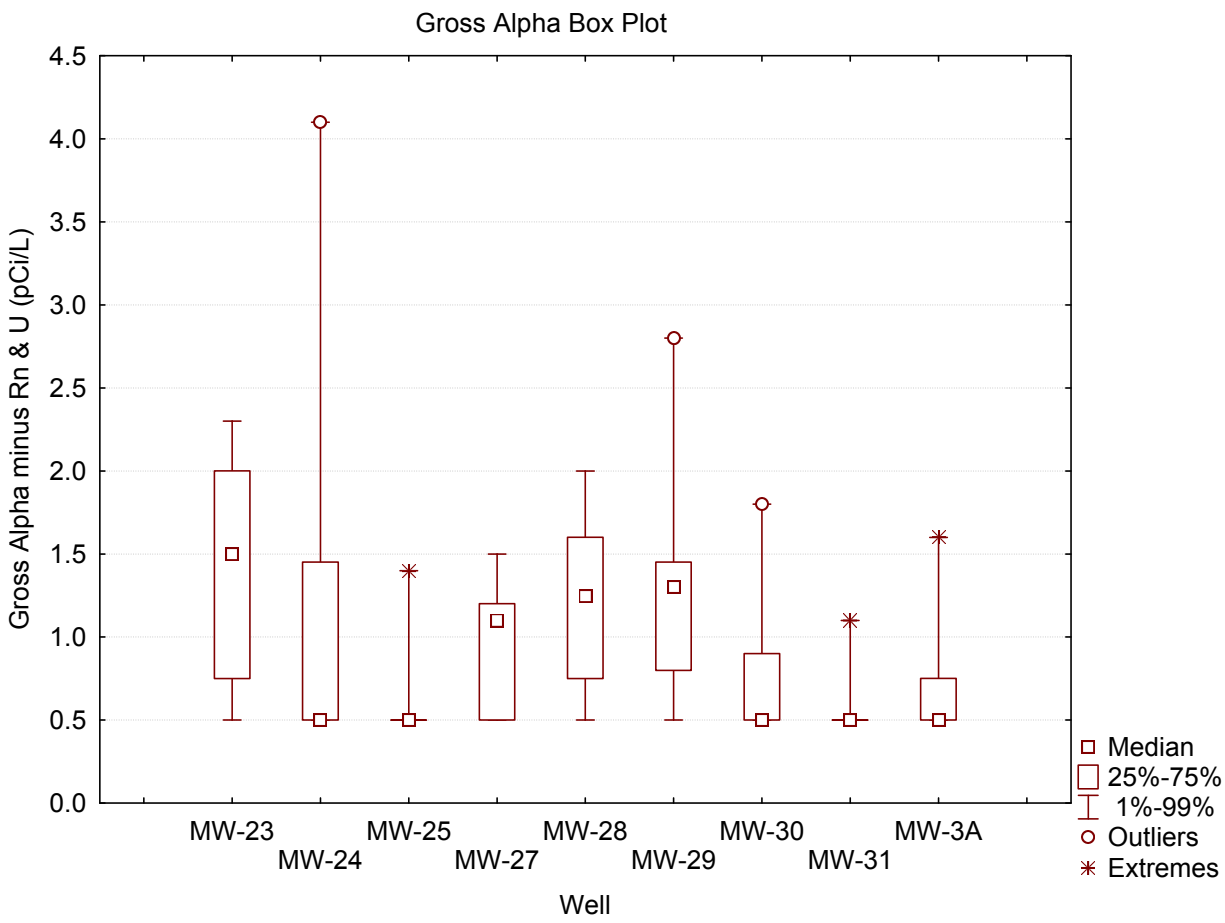

Chloromethane Box Plot
Chloromethane (ug/L)
0
1
2
3
4
5
6
7
8
9
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

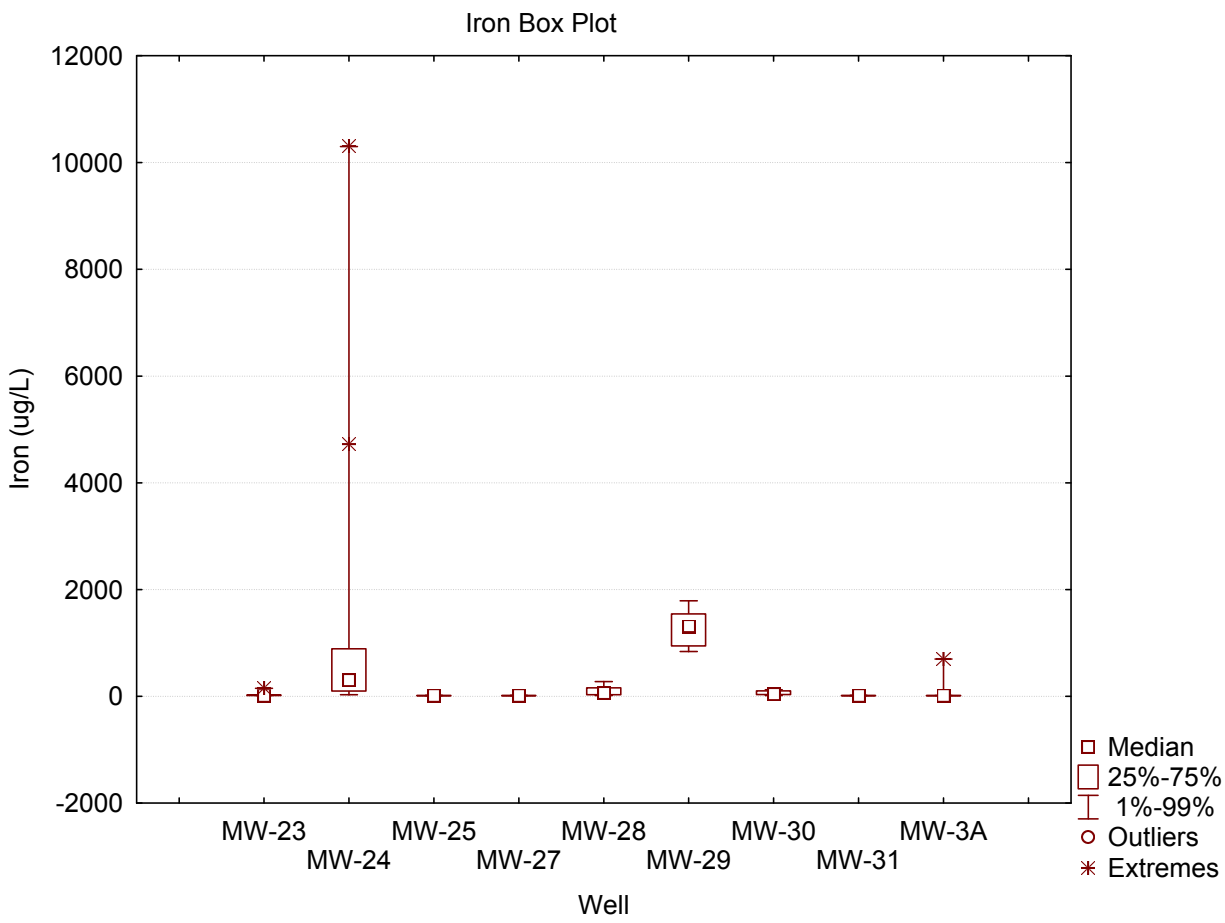

Chromium Box Plot
15
14
13
12
11
10
Chromium (ug/L)
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

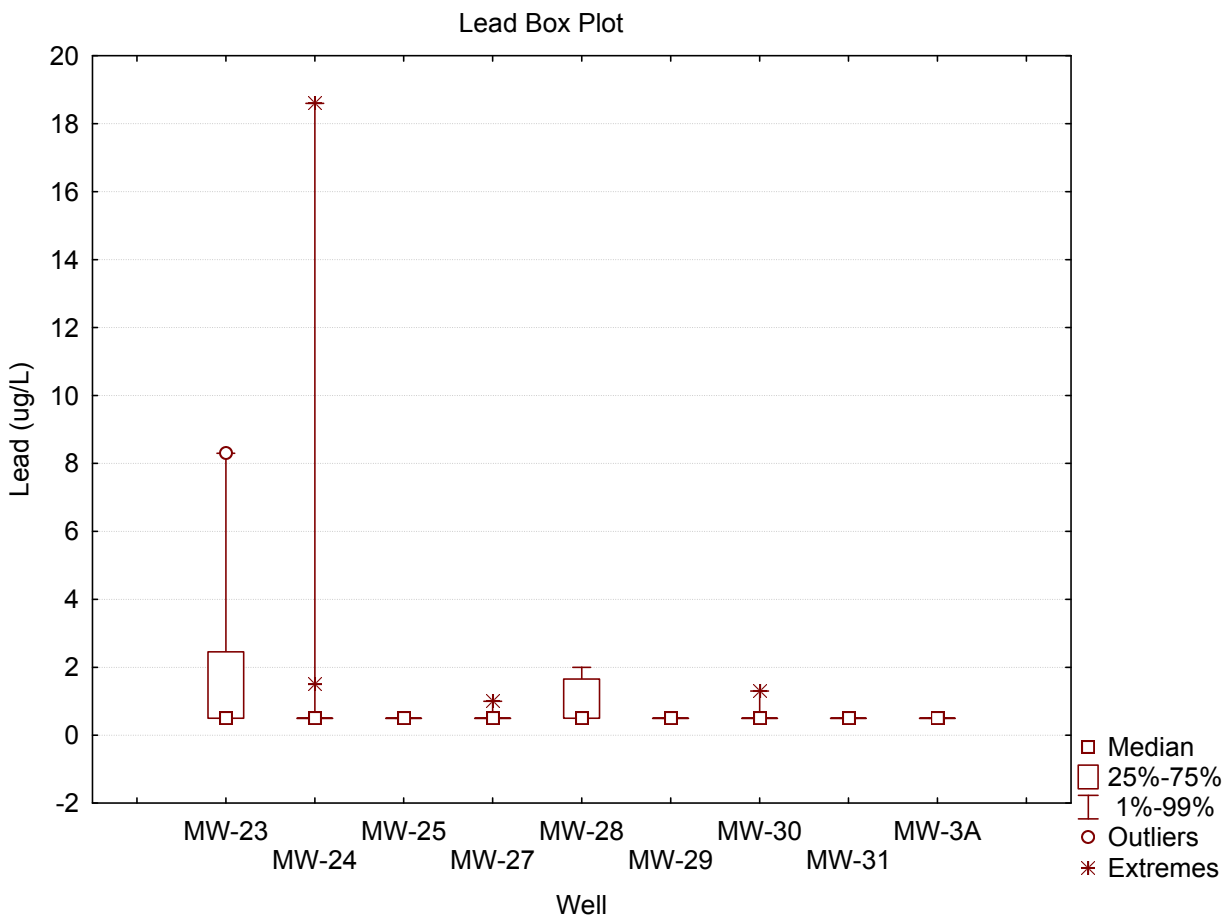

Cobalt Box Plot
Cobalt (ug/L)
50
45
40
35
30
25
20
15
10
5
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

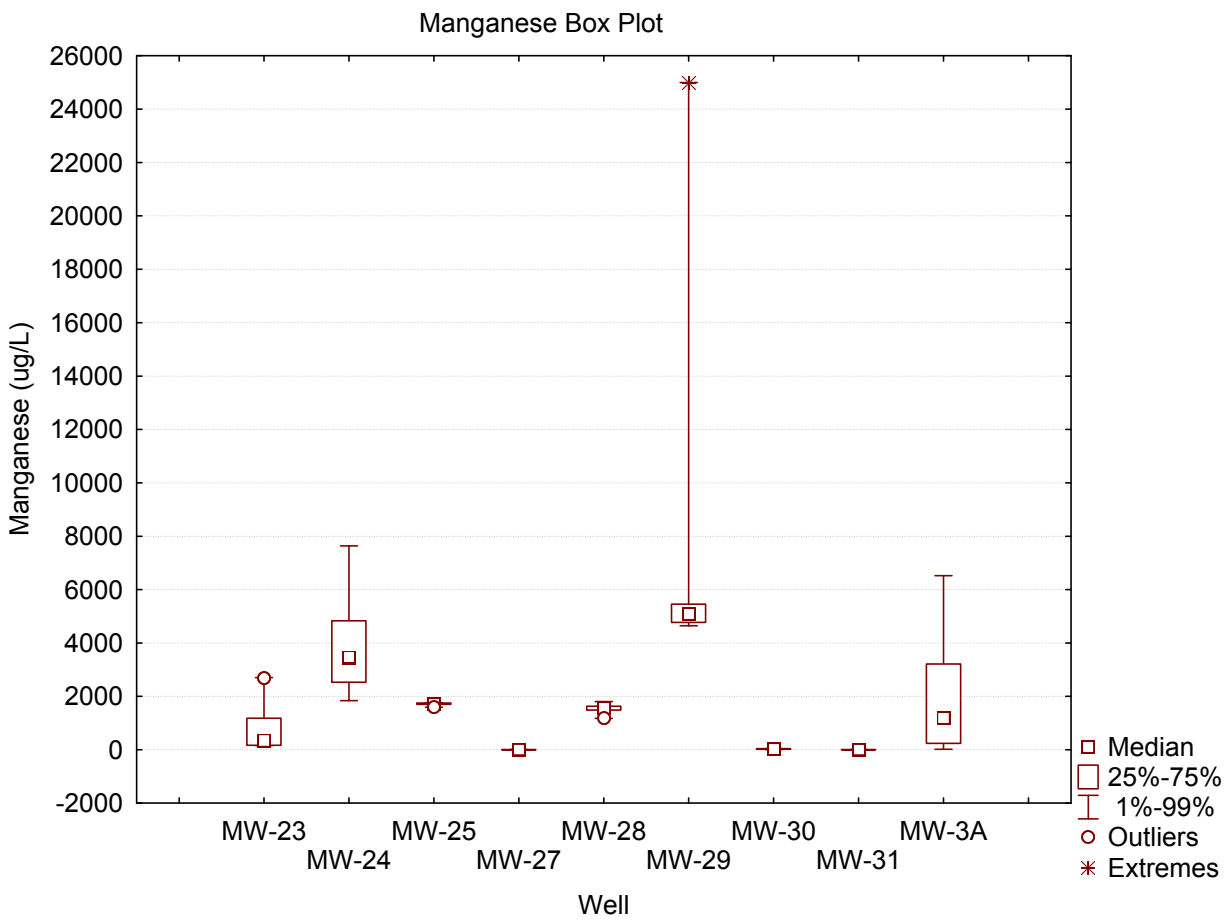

Copper Box Plot
Copper (ug/L)
50
45
40
35
30
25
20
15
10
5
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

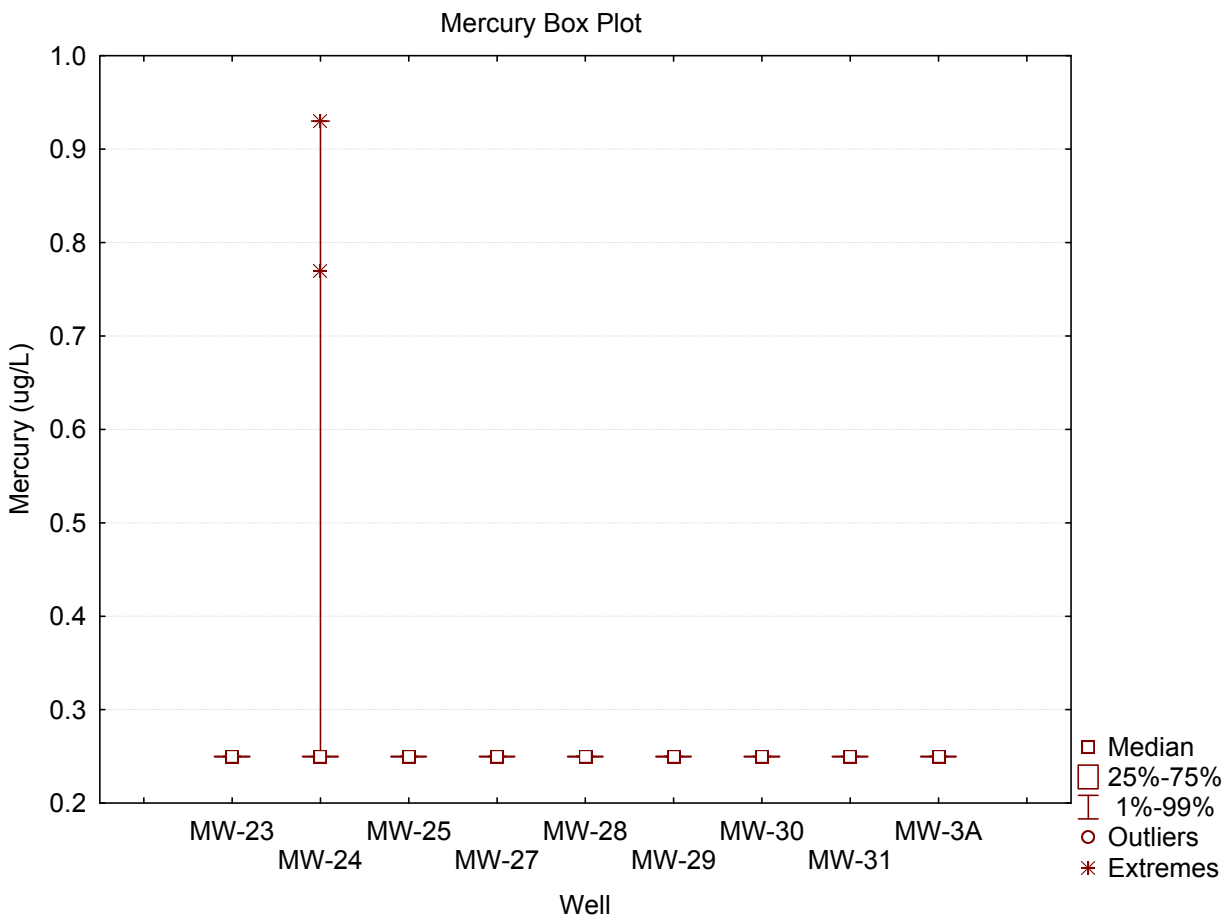

Fluoride Box Plot
Fluoride (mg/L)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

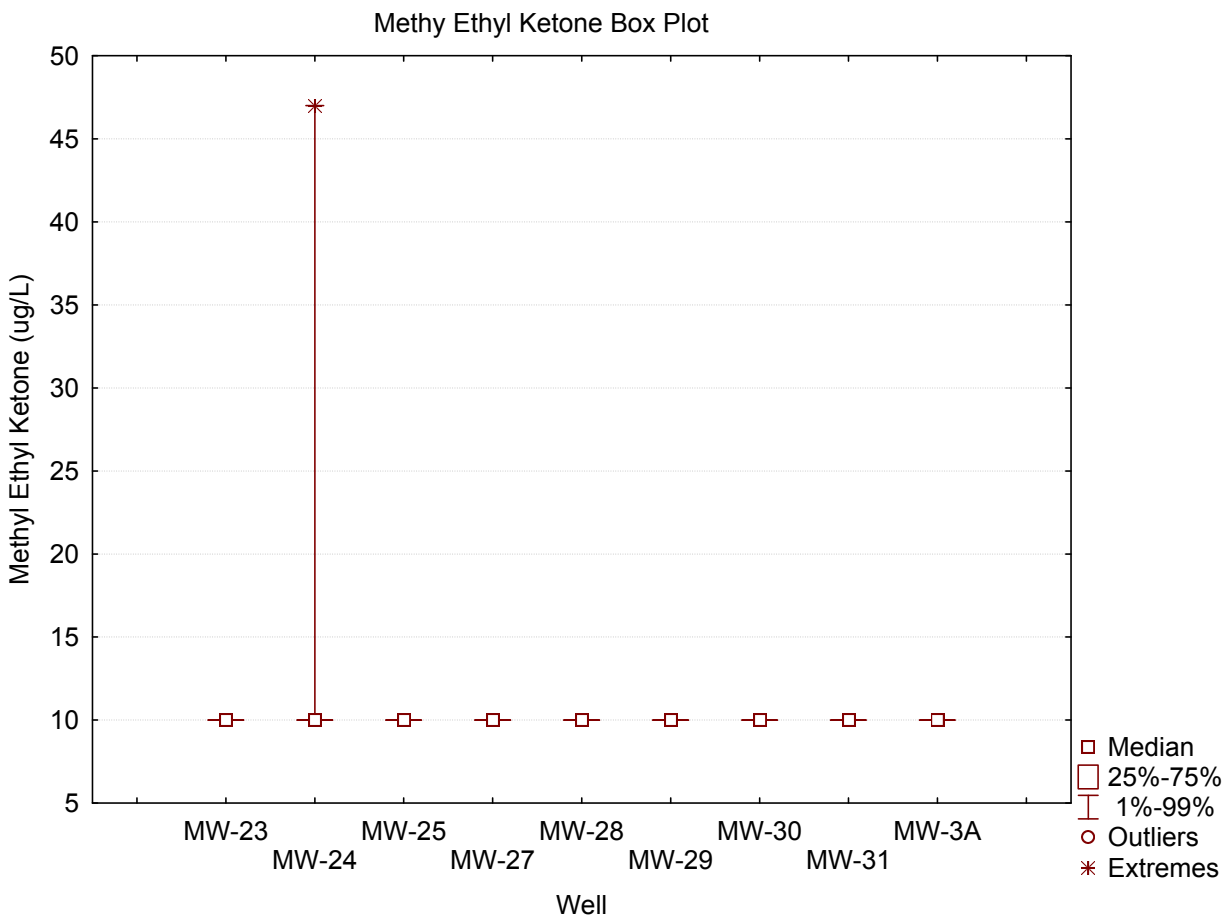

Gross Alpha Box Plot
Gross Alpha minus Rn & U (pCi/L)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

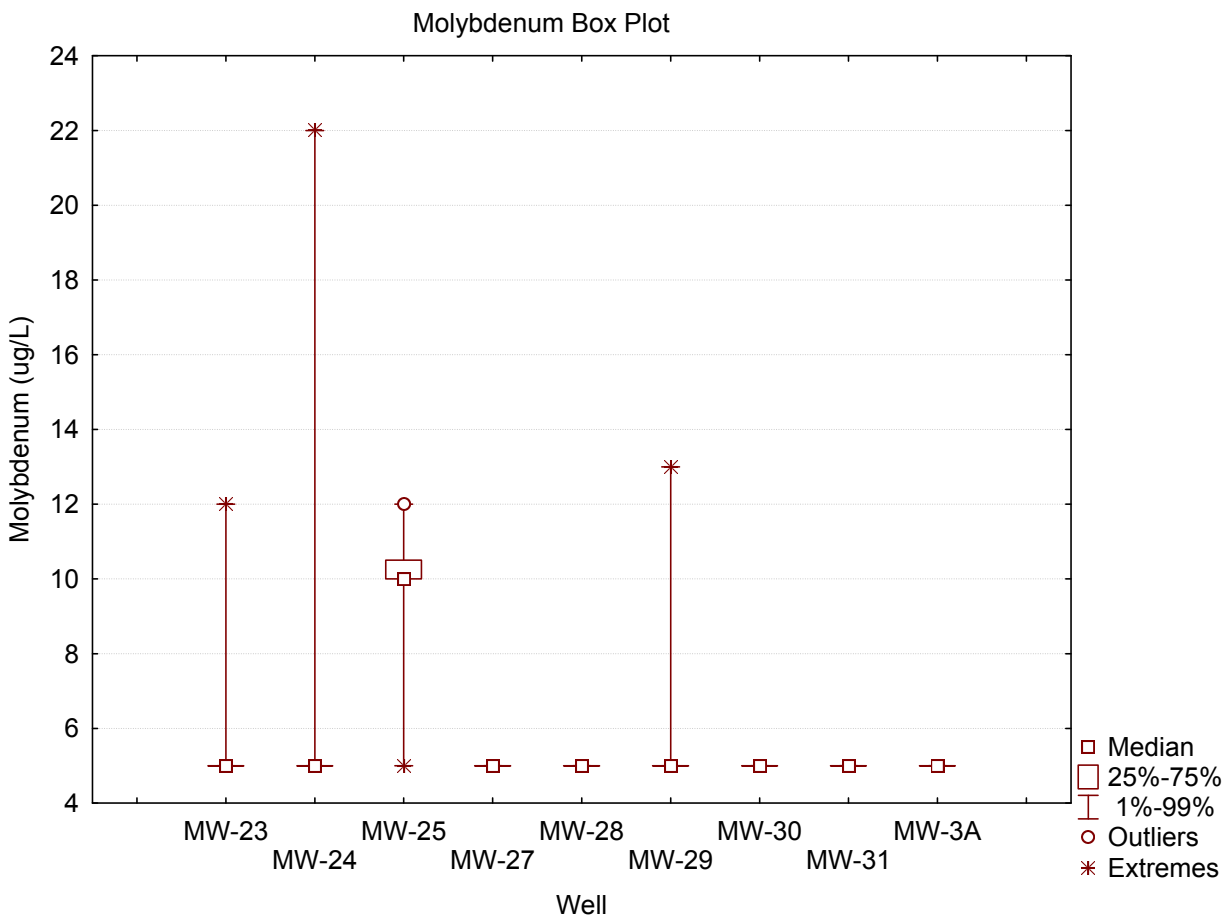

Iron Box Plot
12000
10000
8000
6000
4000
2000
0
-2000
Iron (ug/L)
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

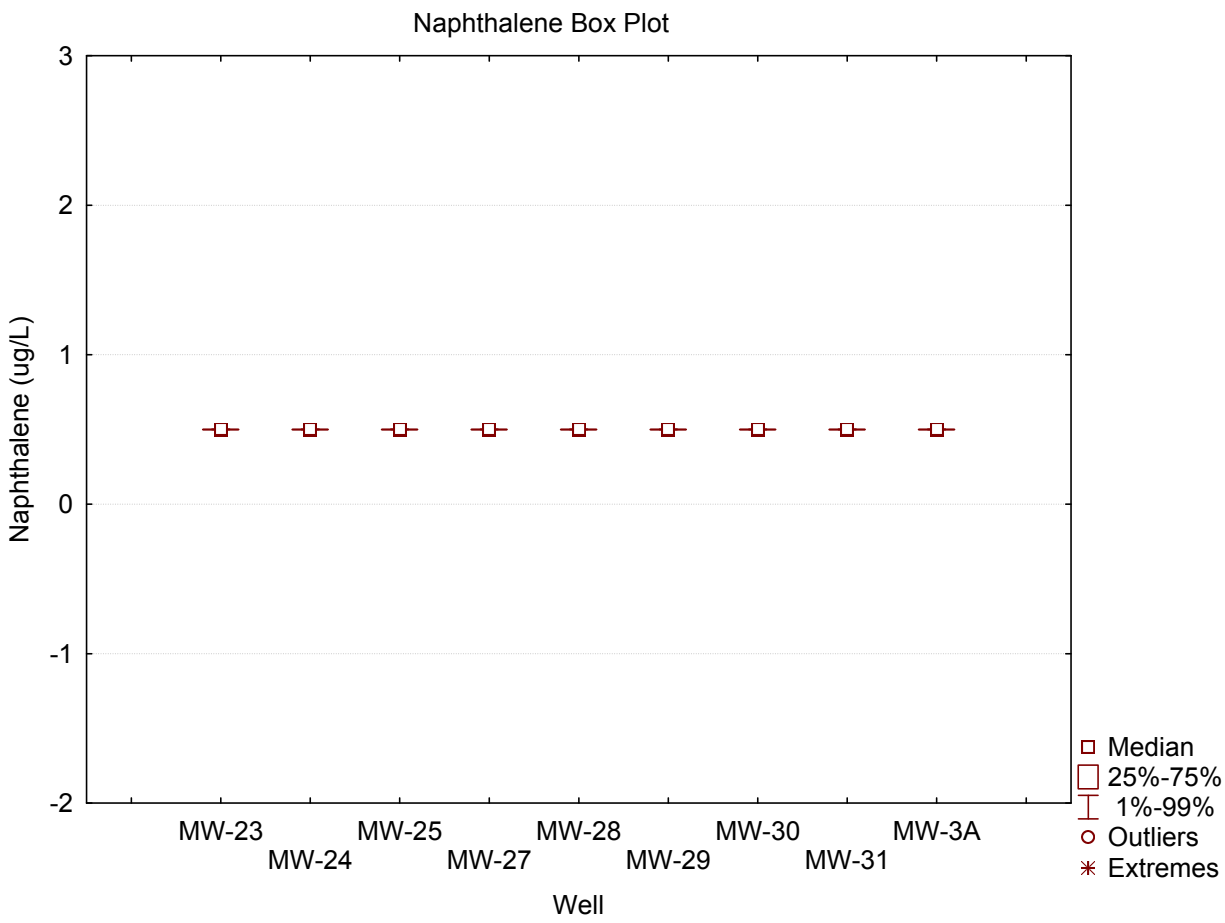

Lead Box Plot
Lead (ug/L)
20
18
16
14
12
10
8
6
4
2
0
-2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

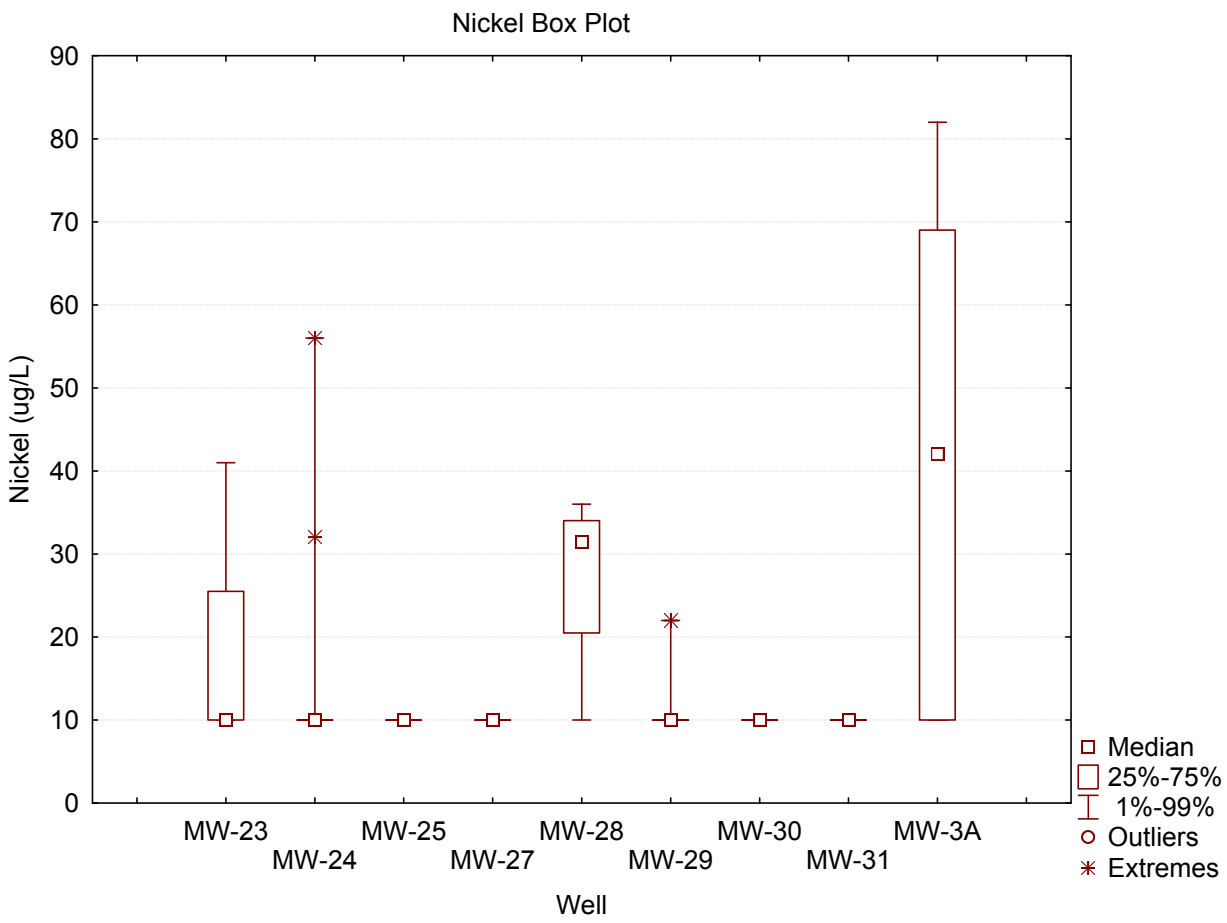

Manganese Box Plot
Manganese (ug/L)
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

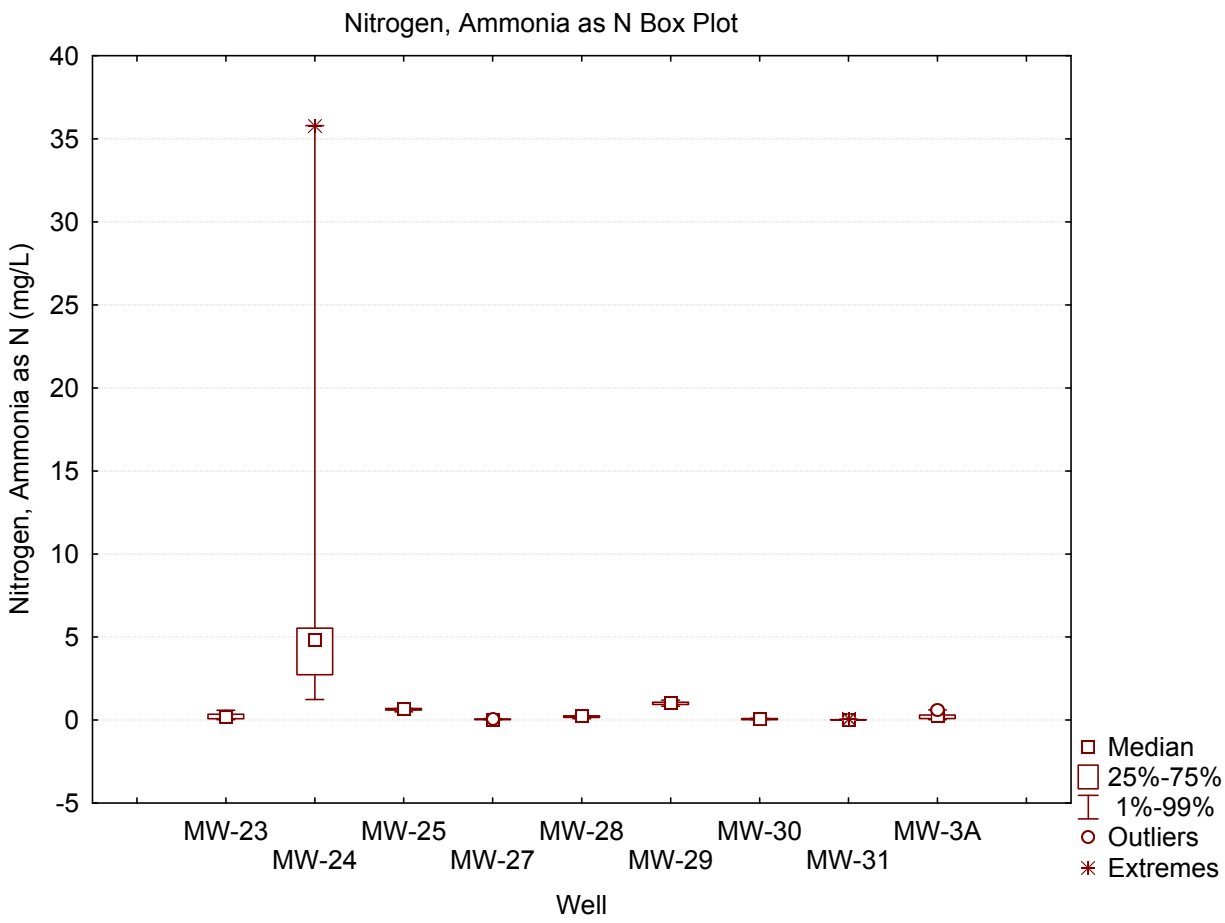

Mercury Box Plot
Mercury (ug/L)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

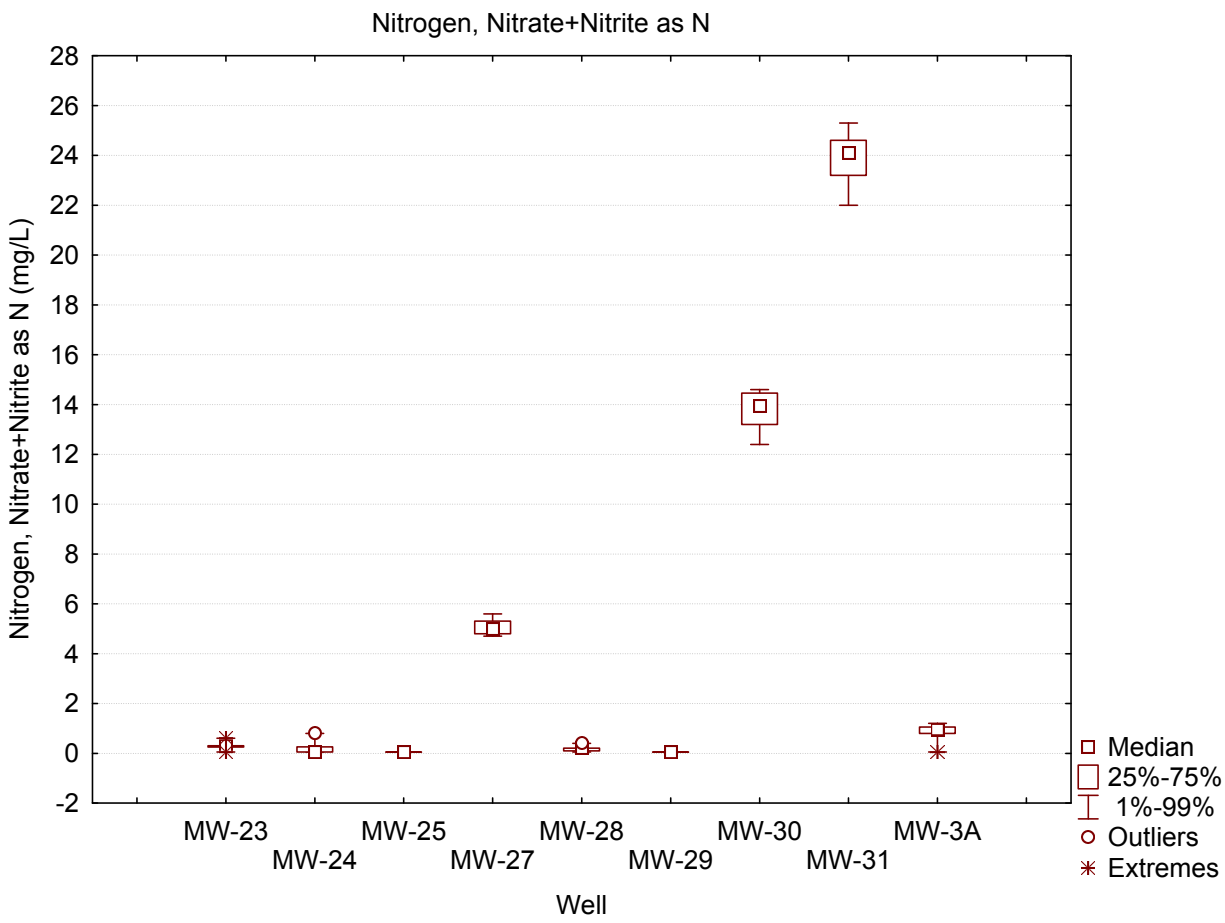

Methy Ethyl Ketone Box Plot
Methyl Ethyl Ketone (ug/L)
50
45
40
35
30
25
20
15
10
5
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

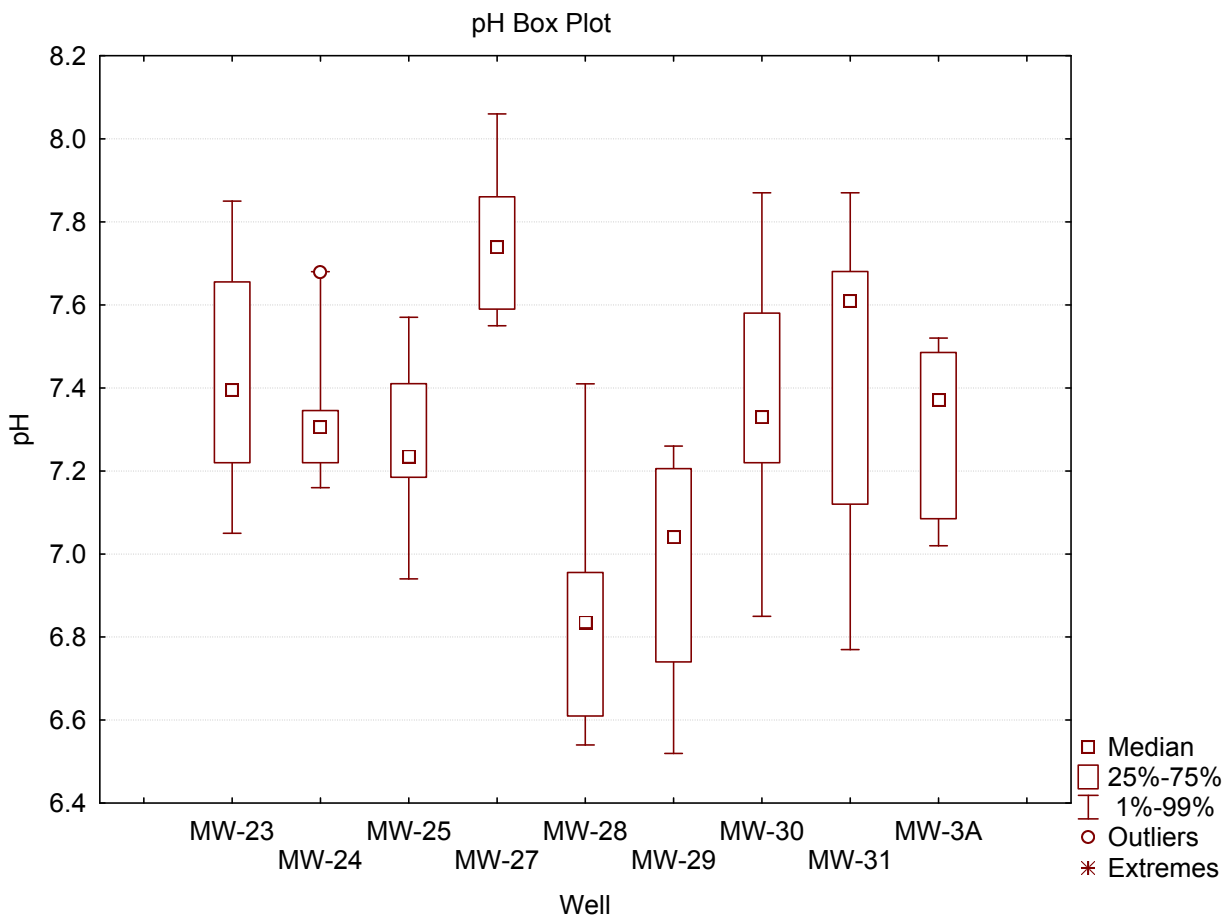

Molybdenum Box Plot
Molybdenum (ug/L)
24
22
20
18
16
14
12
10
8
6
4
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

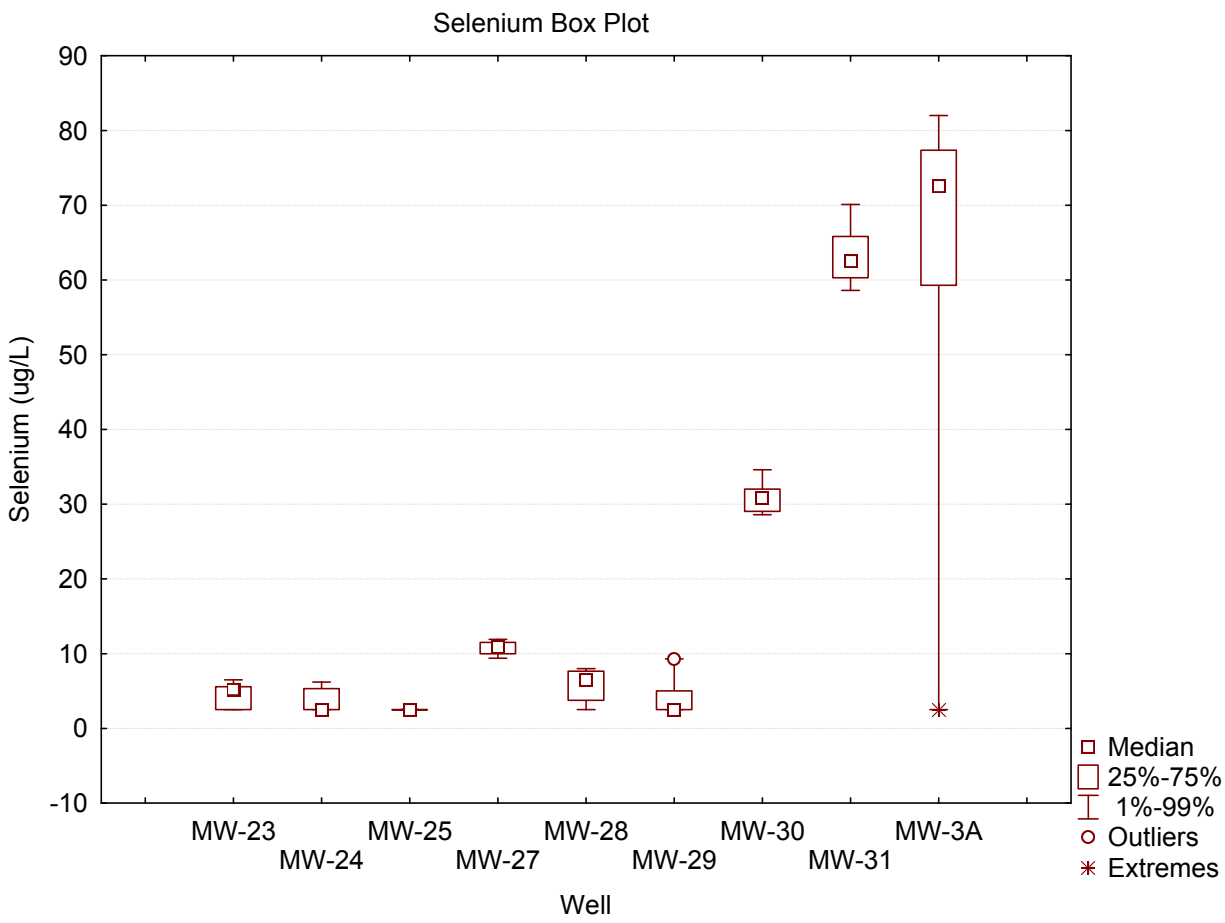

Naphthalene Box Plot
Naphthalene (ug/L)
3
2
1
0
-1
-2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

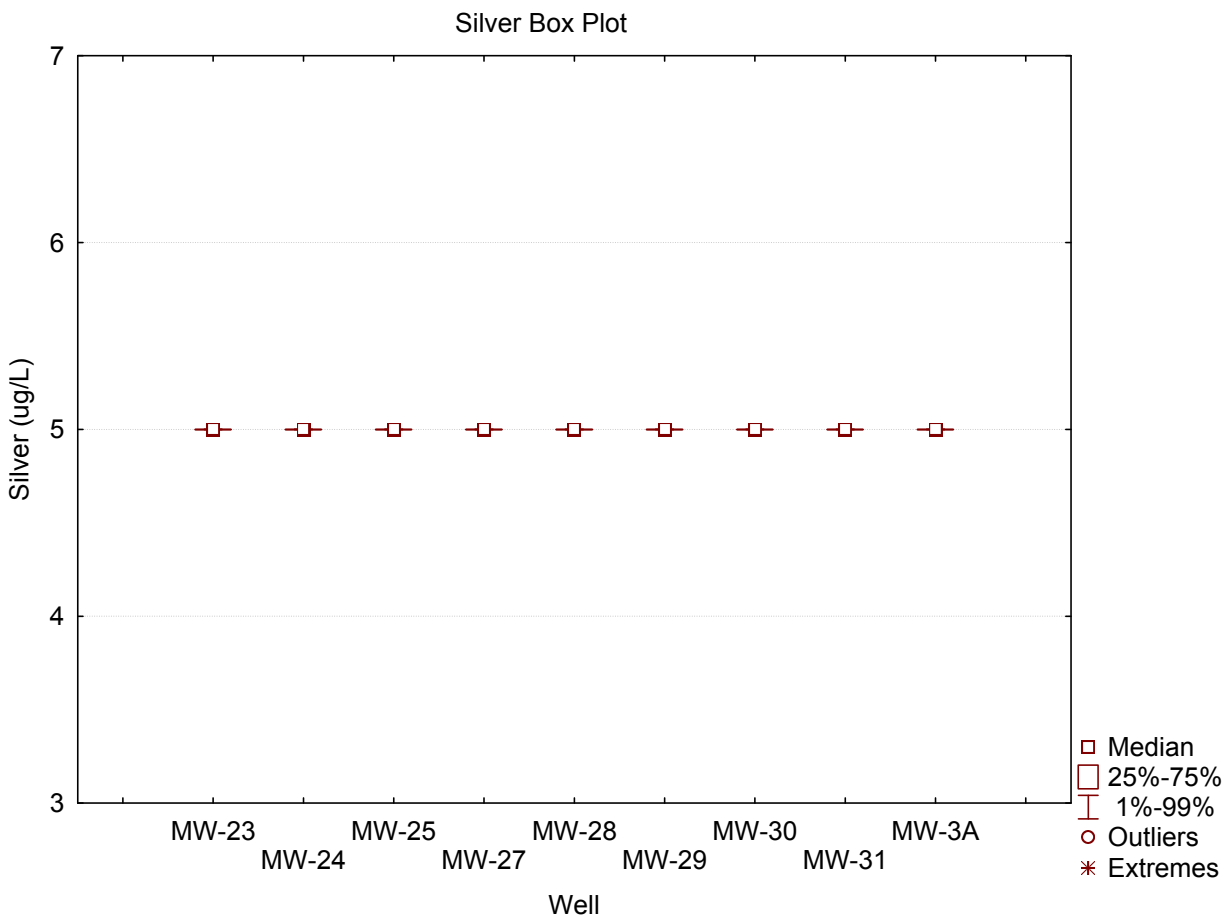

Nickel Box Plot
Nickel (ug/L)
90
80
70
60
50
40
30
20
10
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

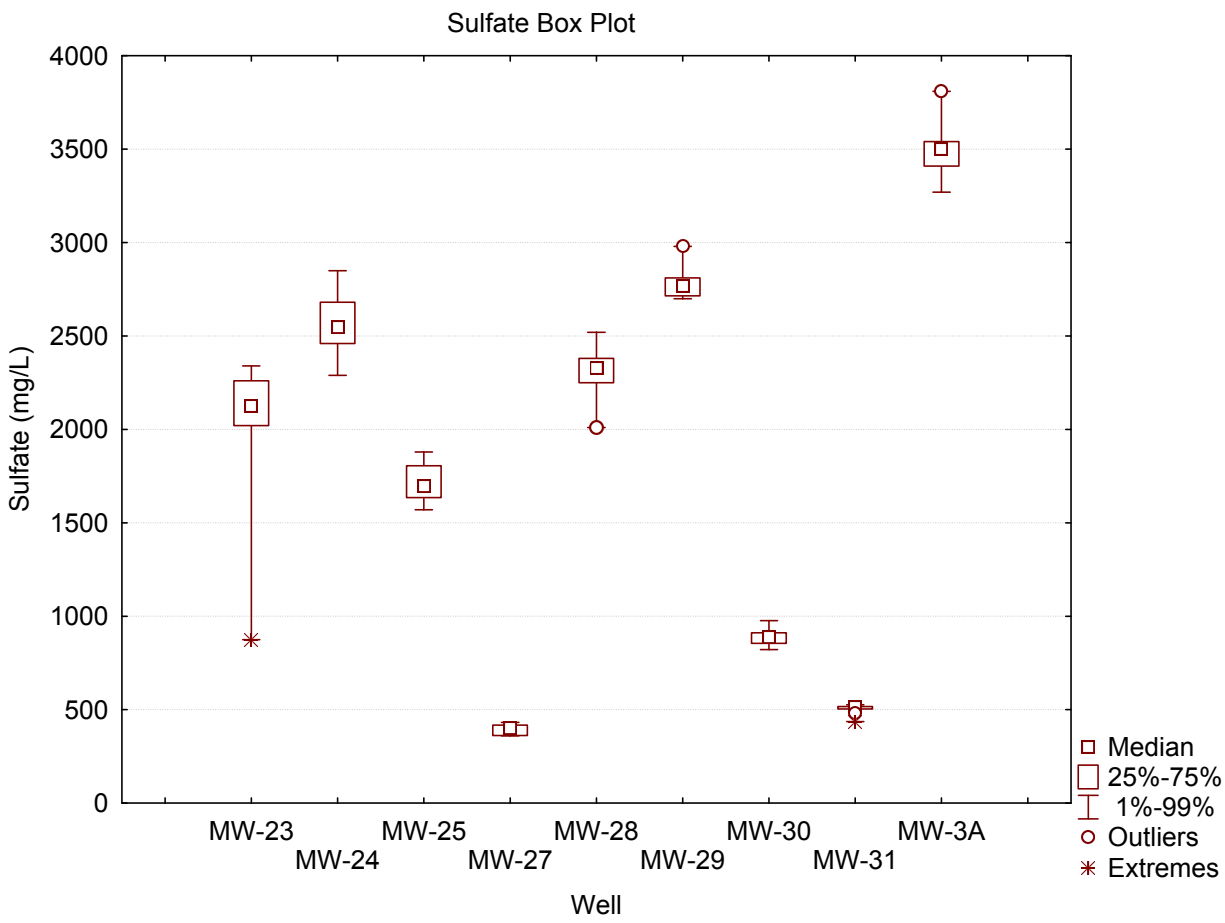

Nitrogen, Ammonia as N Box Plot
Nitrogen, Ammonia as N (mg/L)
40
35
30
25
20
15
10
5
0
-5
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

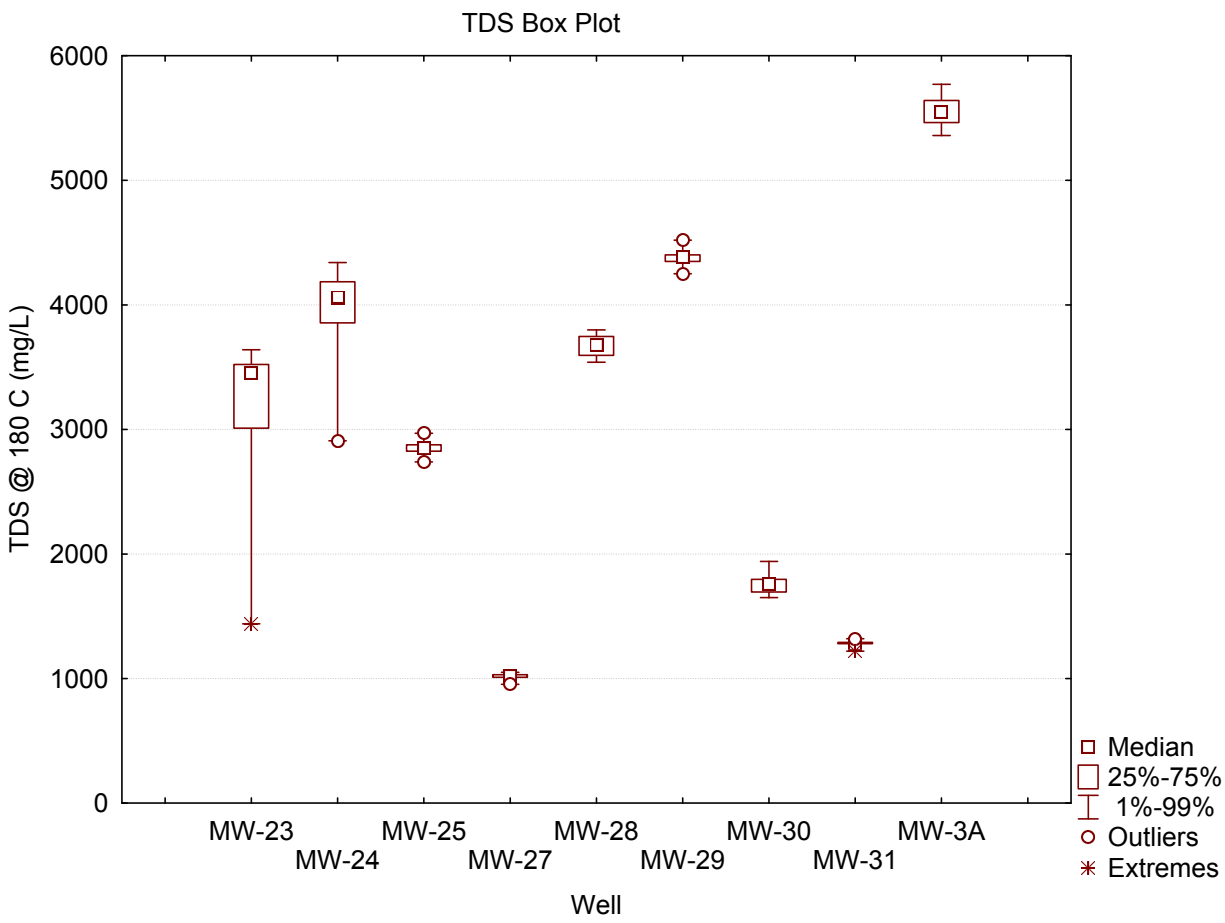

Nitrogen, Nitrate+Nitrite as N
Nitrogen, Nitrate+Nitrite as N (mg/L)
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

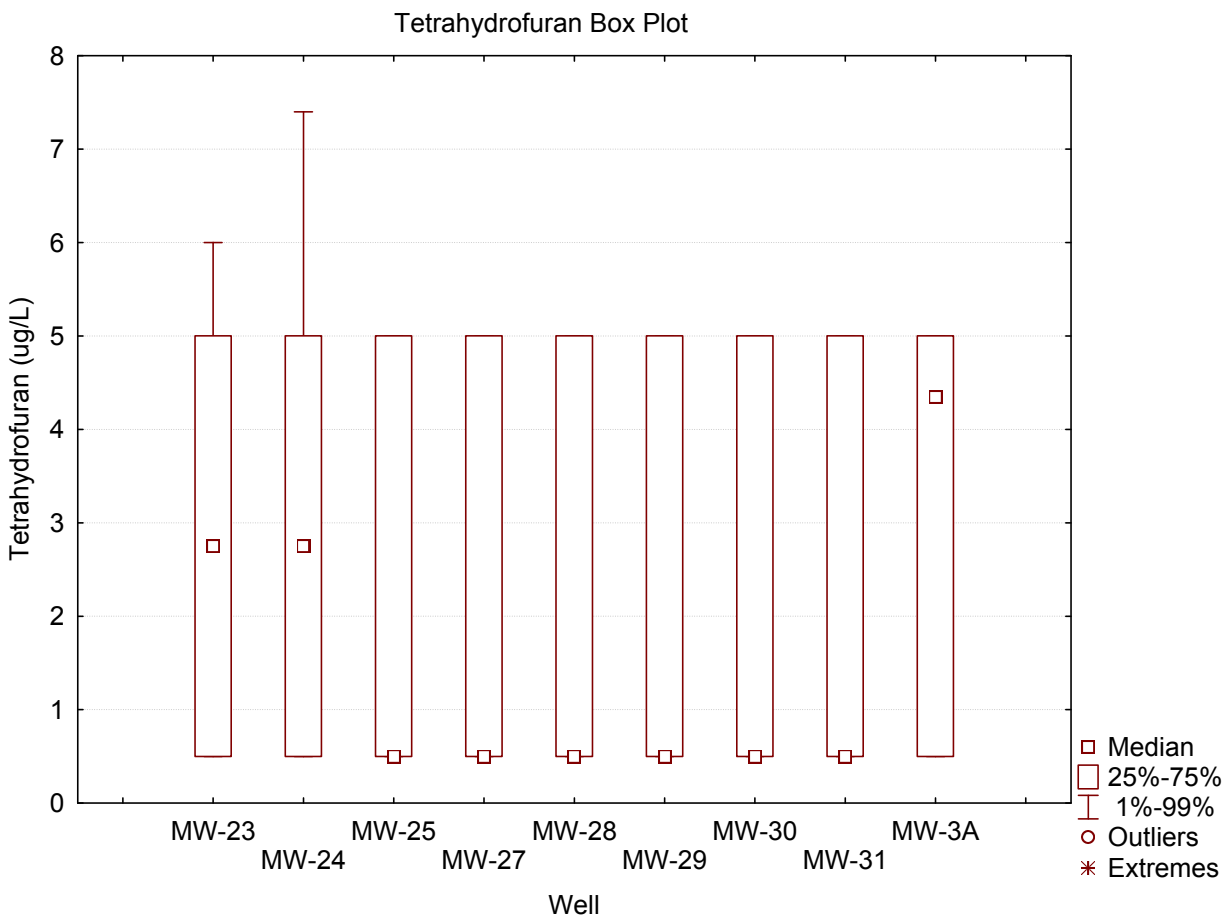

pH Box Plot
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
pH
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

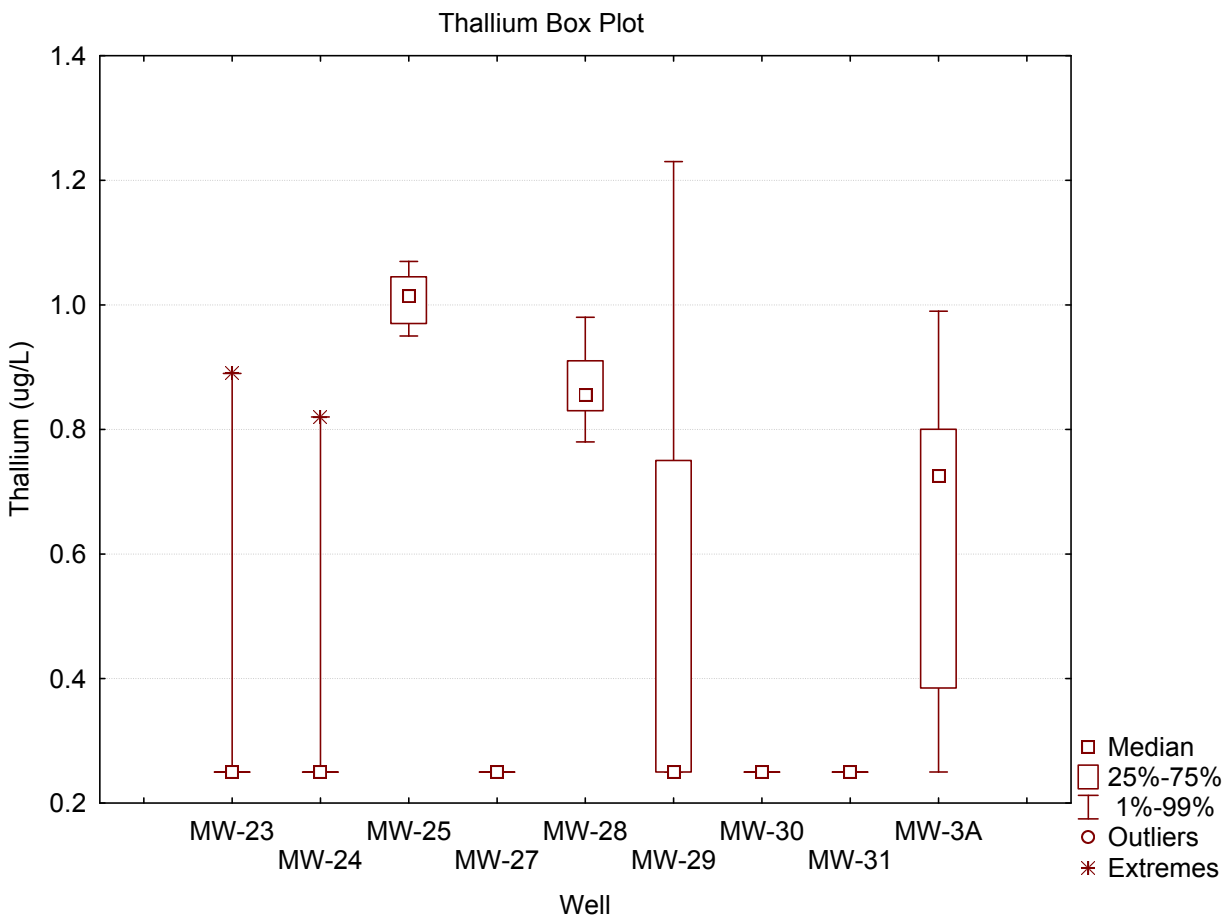

Selenium Box Plot
Selenium (ug/L)
90
80
70
60
50
40
30
20
10
0
-10
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

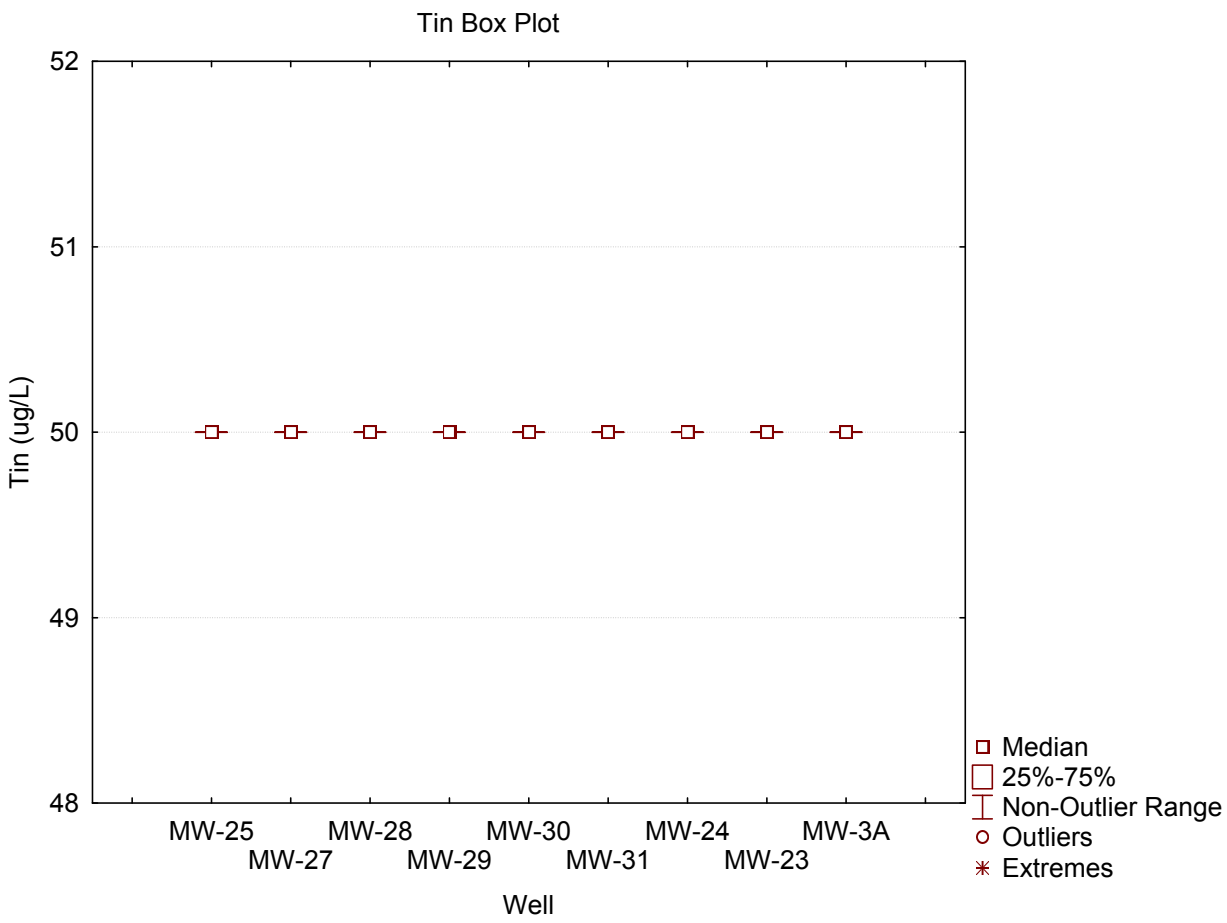

Silver Box Plot
7
6
5
4
3
Silver (ug/L)
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

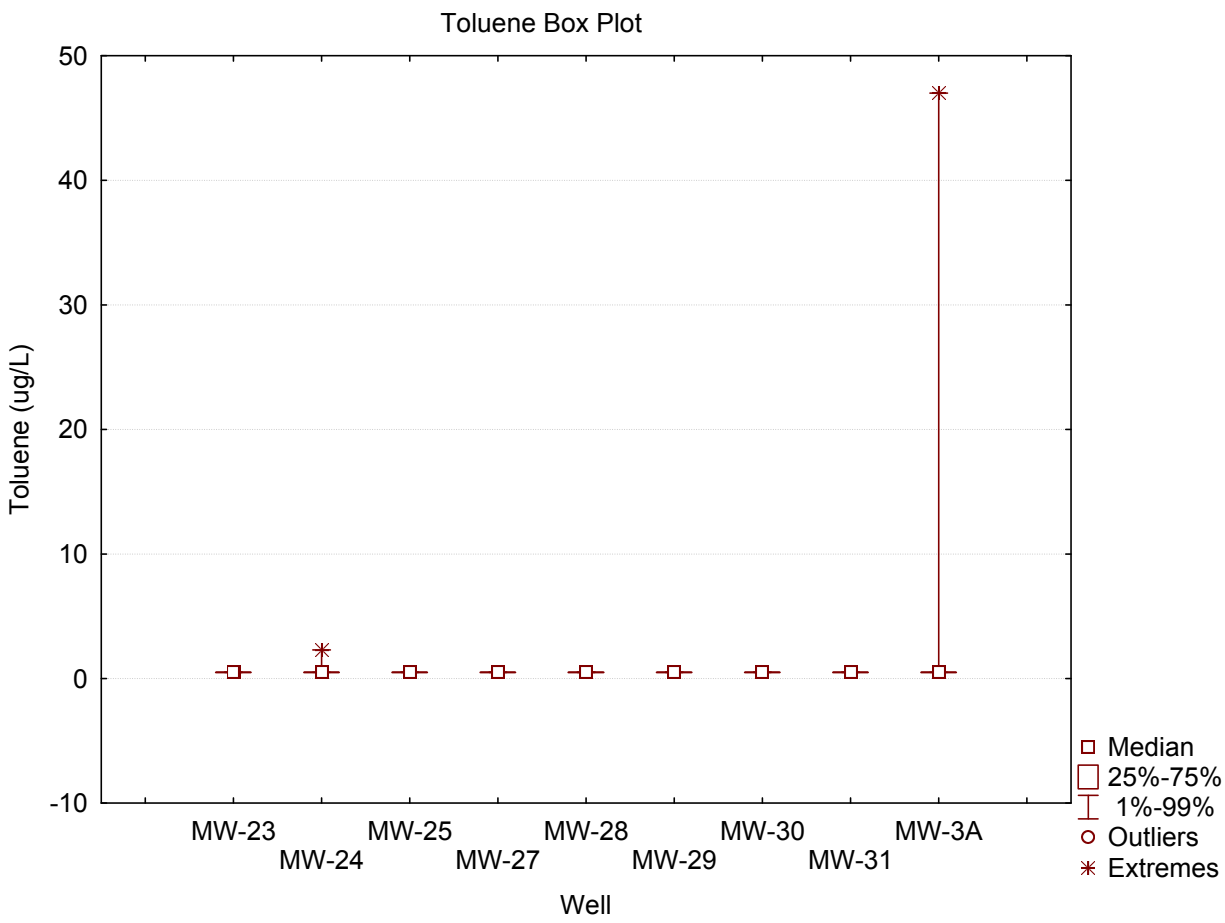

Sulfate Box Plot
Sulfate (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

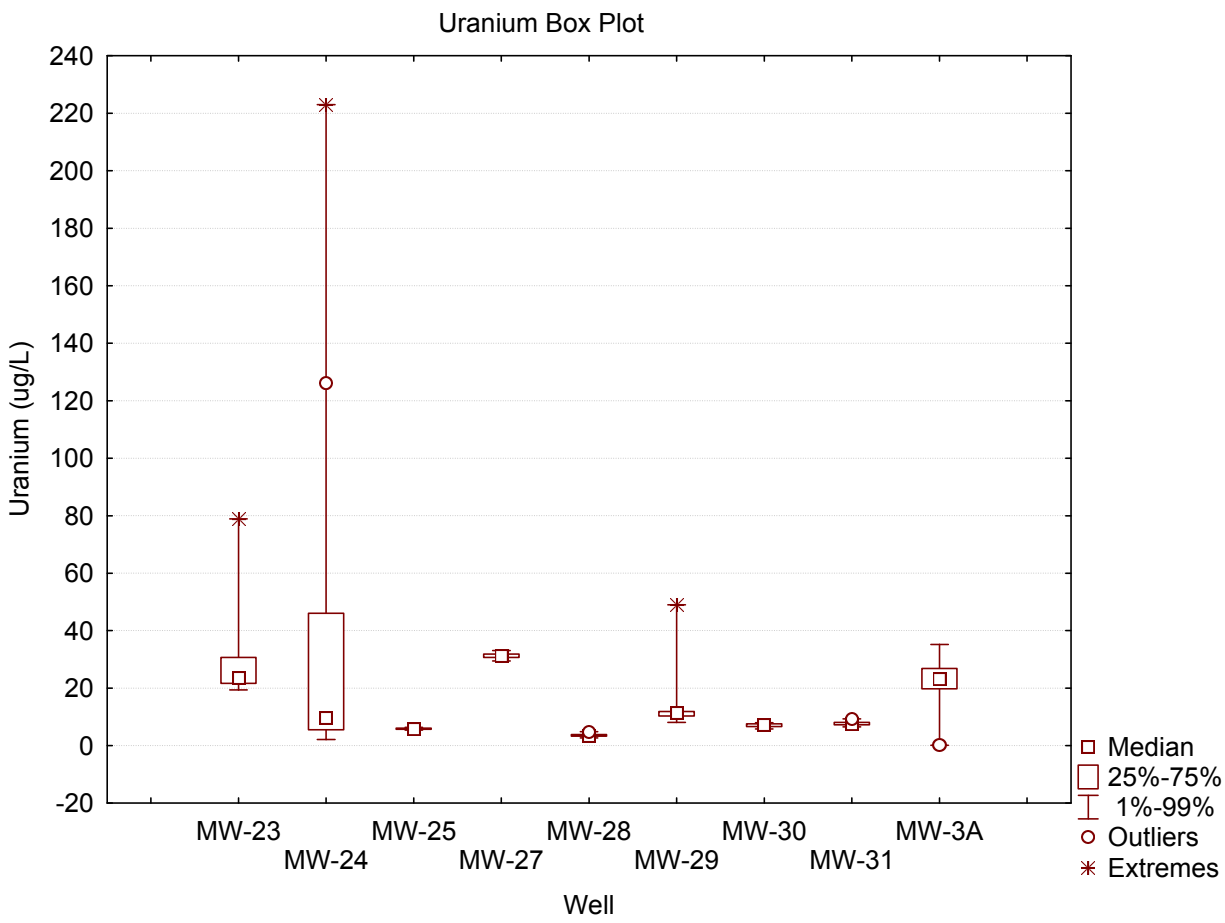

TDS Box Plot
6000
5000
4000
3000
2000
1000
0
TDS @ 180 C (mg/L)
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

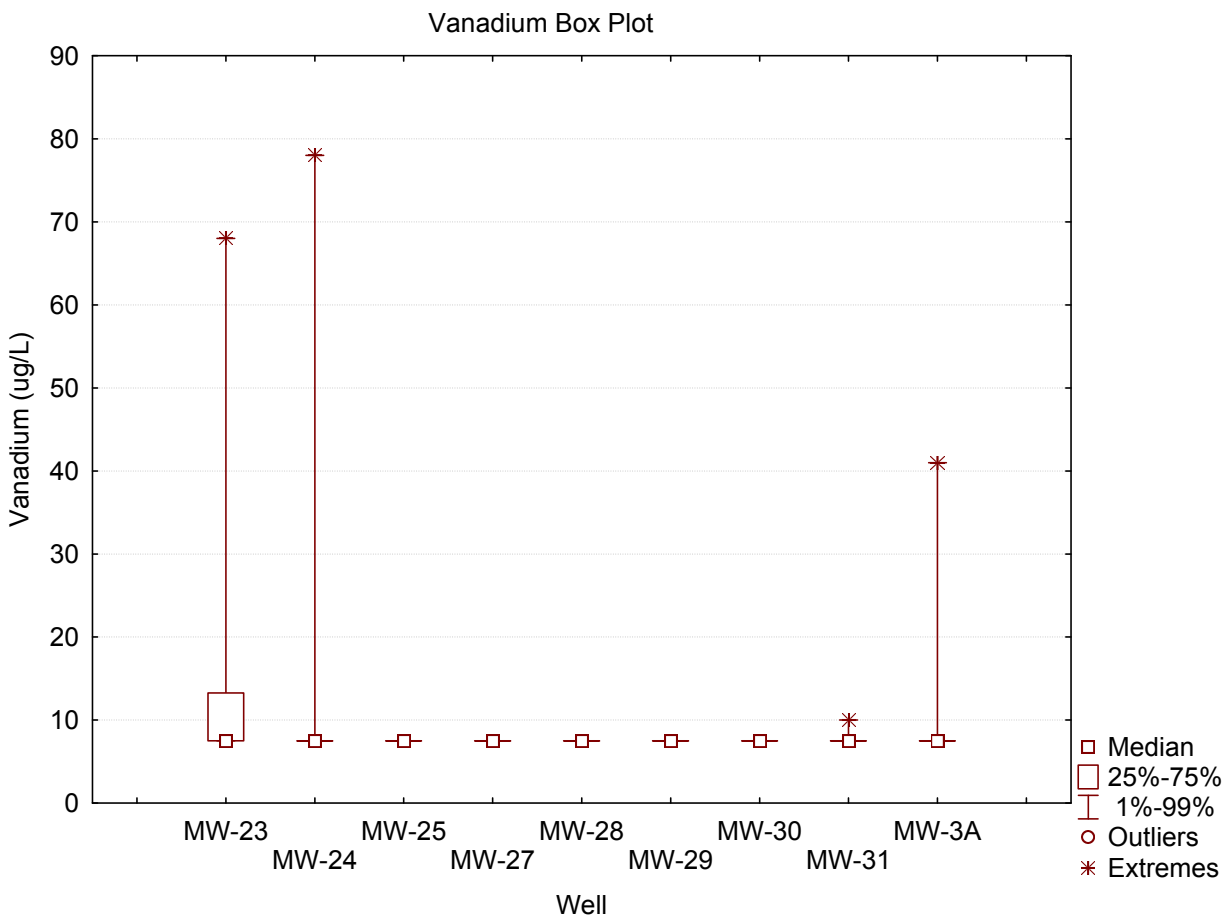

Tetrahydrofuran Box Plot
Tetrahydrofuran (ug/L)
0
1
2
3
4
5
6
7
8
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

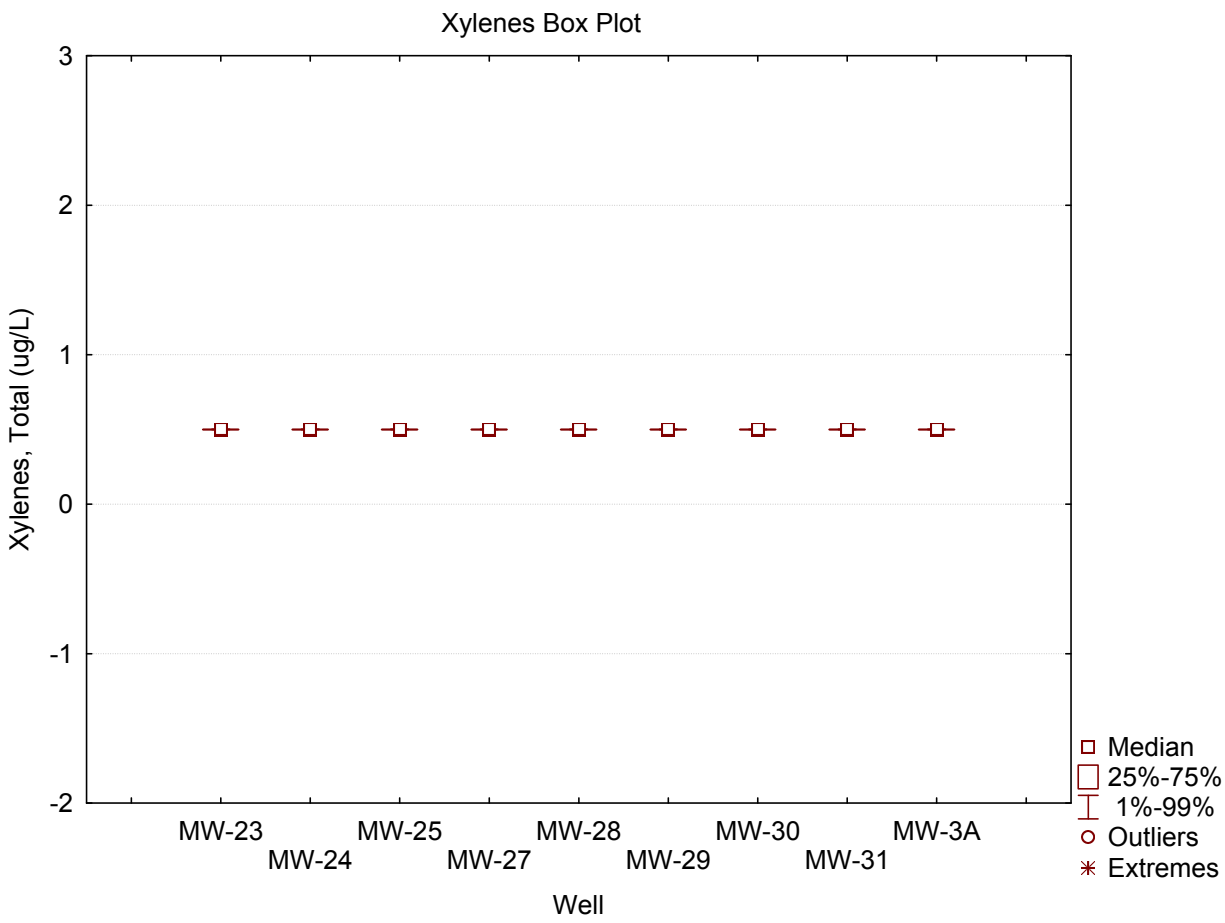

Thallium Box Plot
Thallium (ug/L)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

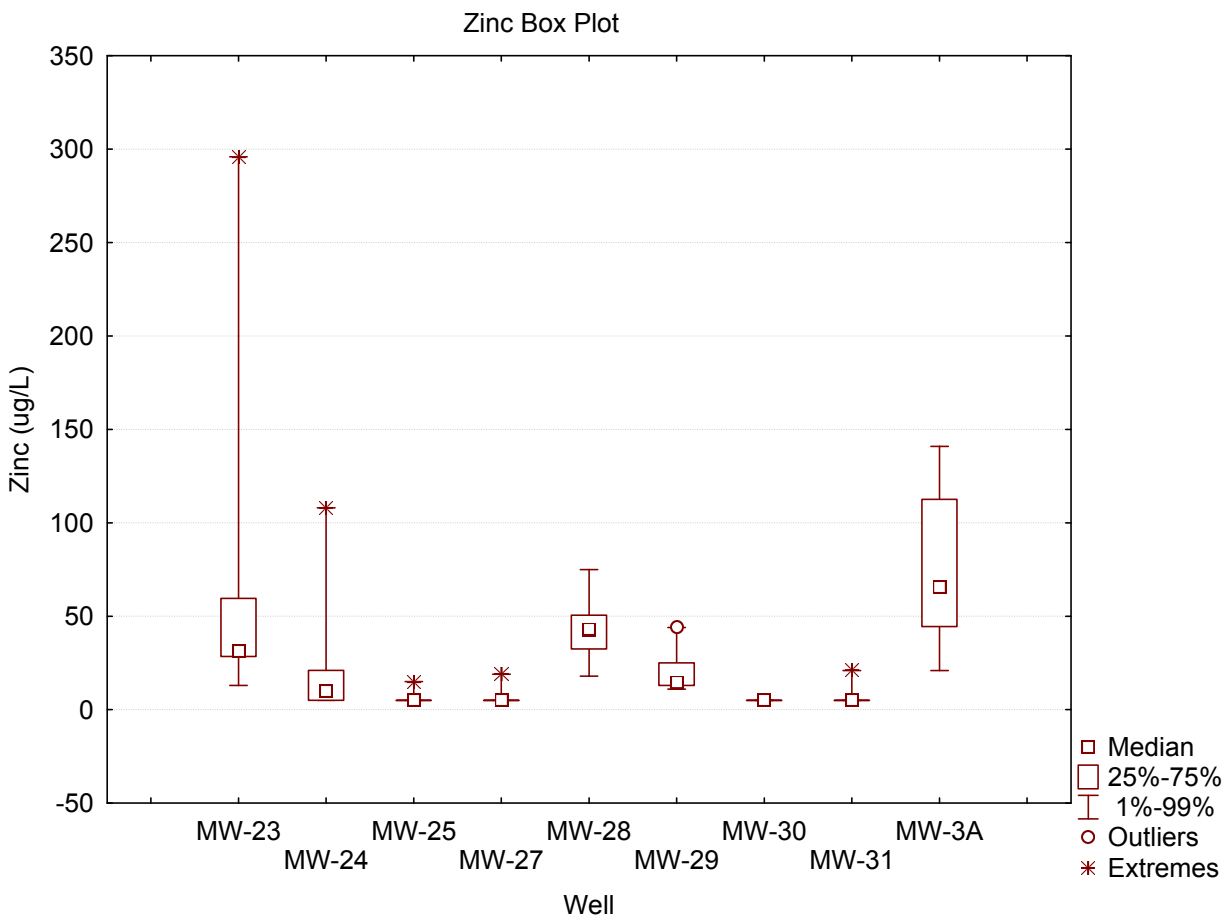

Tin Box Plot
52
51
50
49
48
Tin (ug/L)
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-24
MW-23
MW-3A
Well
Median
25%-75%
Non-Outlier Range
Outliers
Extremes


Toluene Box Plot
Toluene (ug/L)
50
40
30
20
10
0
-10
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

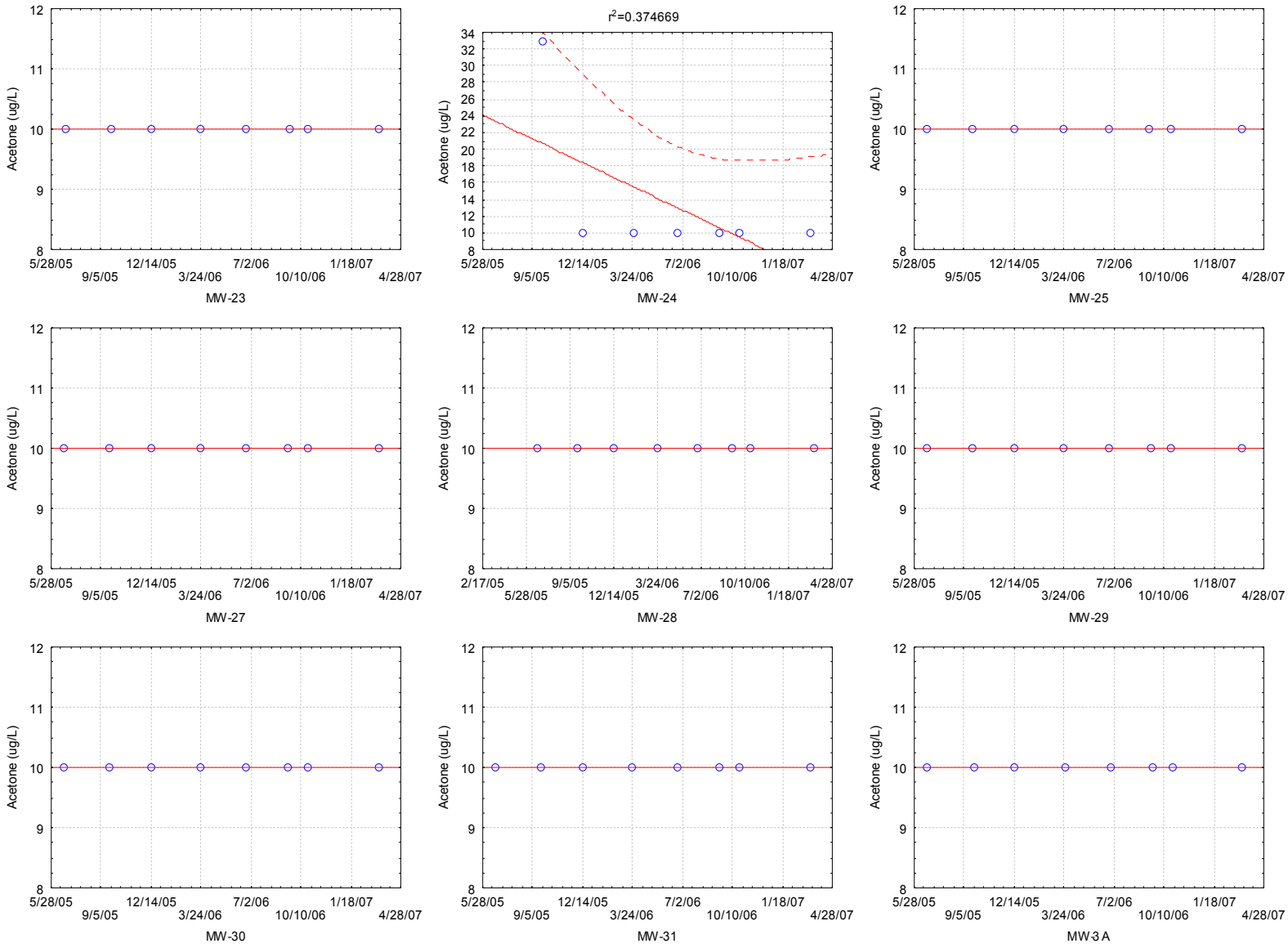

Uranium Box Plot
Uranium (ug/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes


Vanadium Box Plot
Vanadium (ug/L)
90
80
70
60
50
40
30
20
10
0
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

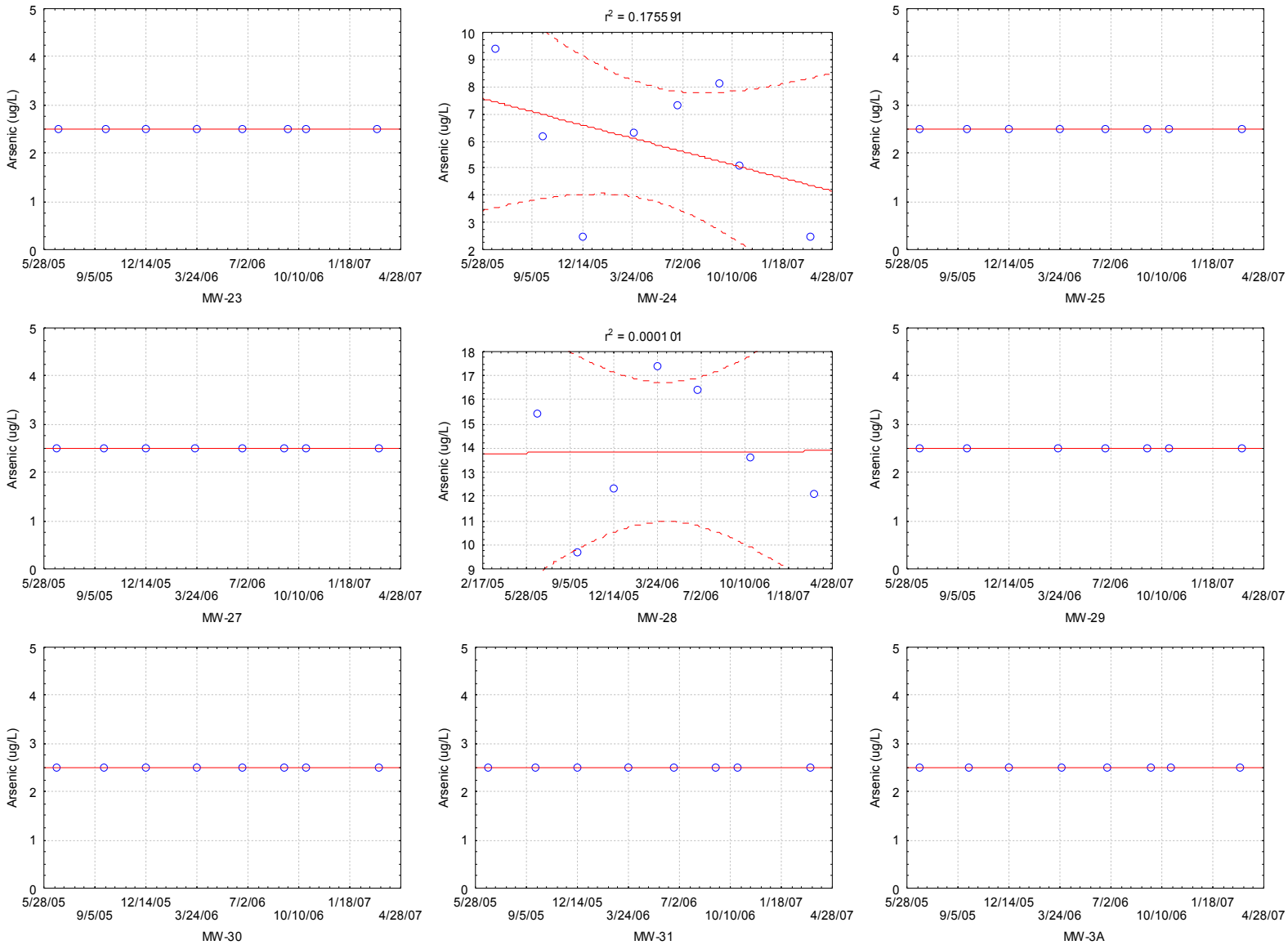

Xylenes Box Plot
Xylenes, Total (ug/L)
3
2
1
0
-1
-2
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes


Zinc Box Plot
Zinc (ug/L)
350
300
250
200
150
100
50
0
-50
MW-23
MW-24
MW-25
MW-27
MW-28
MW-29
MW-30
MW-31
MW-3A
Well
Median
25%-75%
1%-99%
Outliers
Extremes

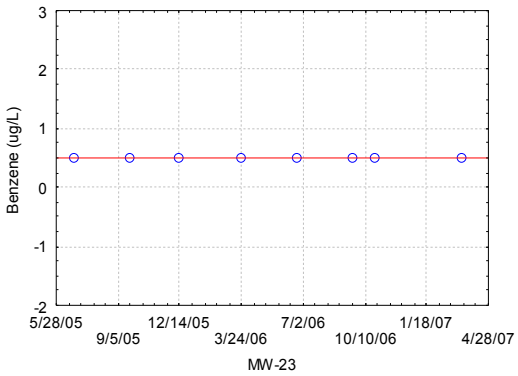
Acetone Regression Analysis

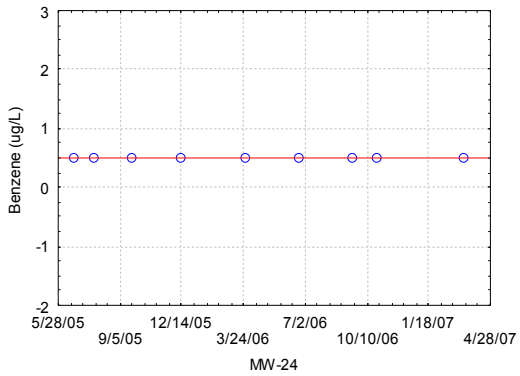


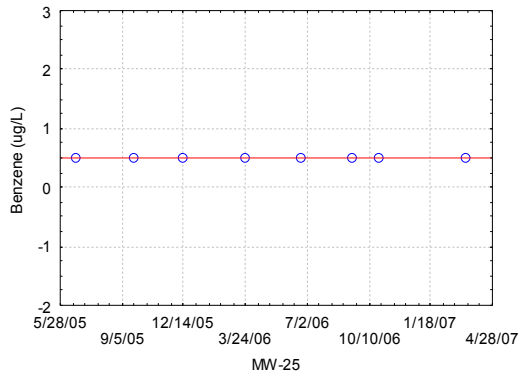
Arsenic Resgression Analysis

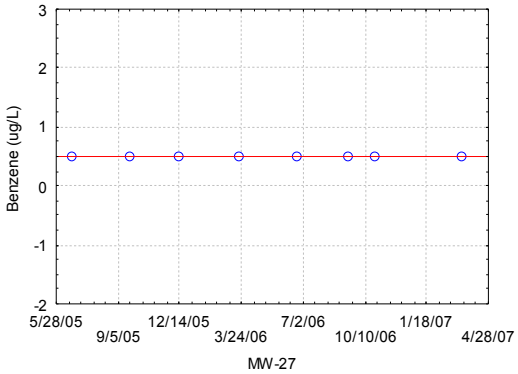


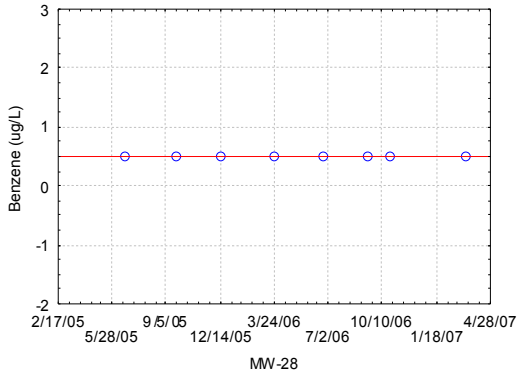
Benzene Regression Analysis

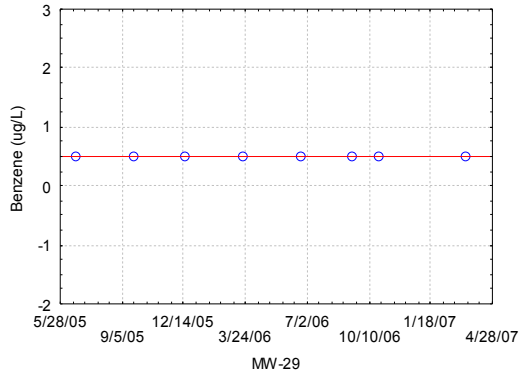


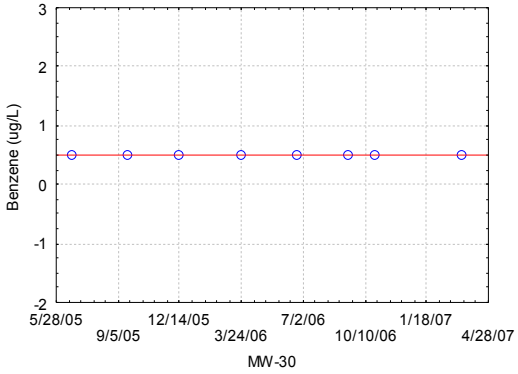


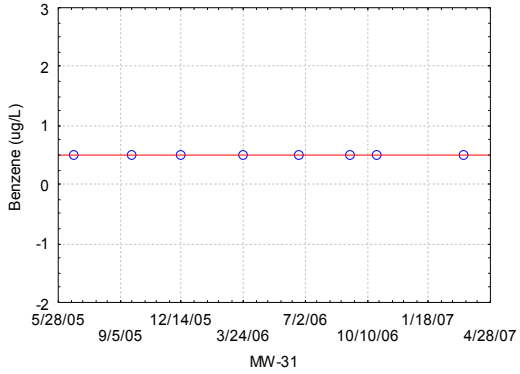


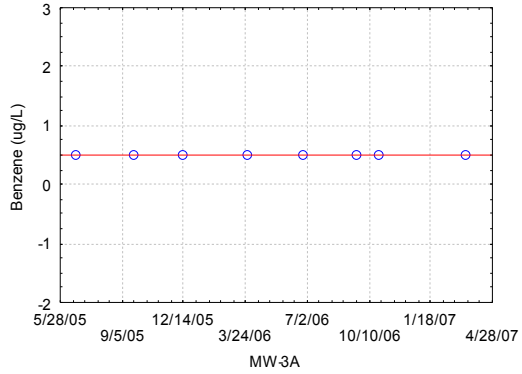




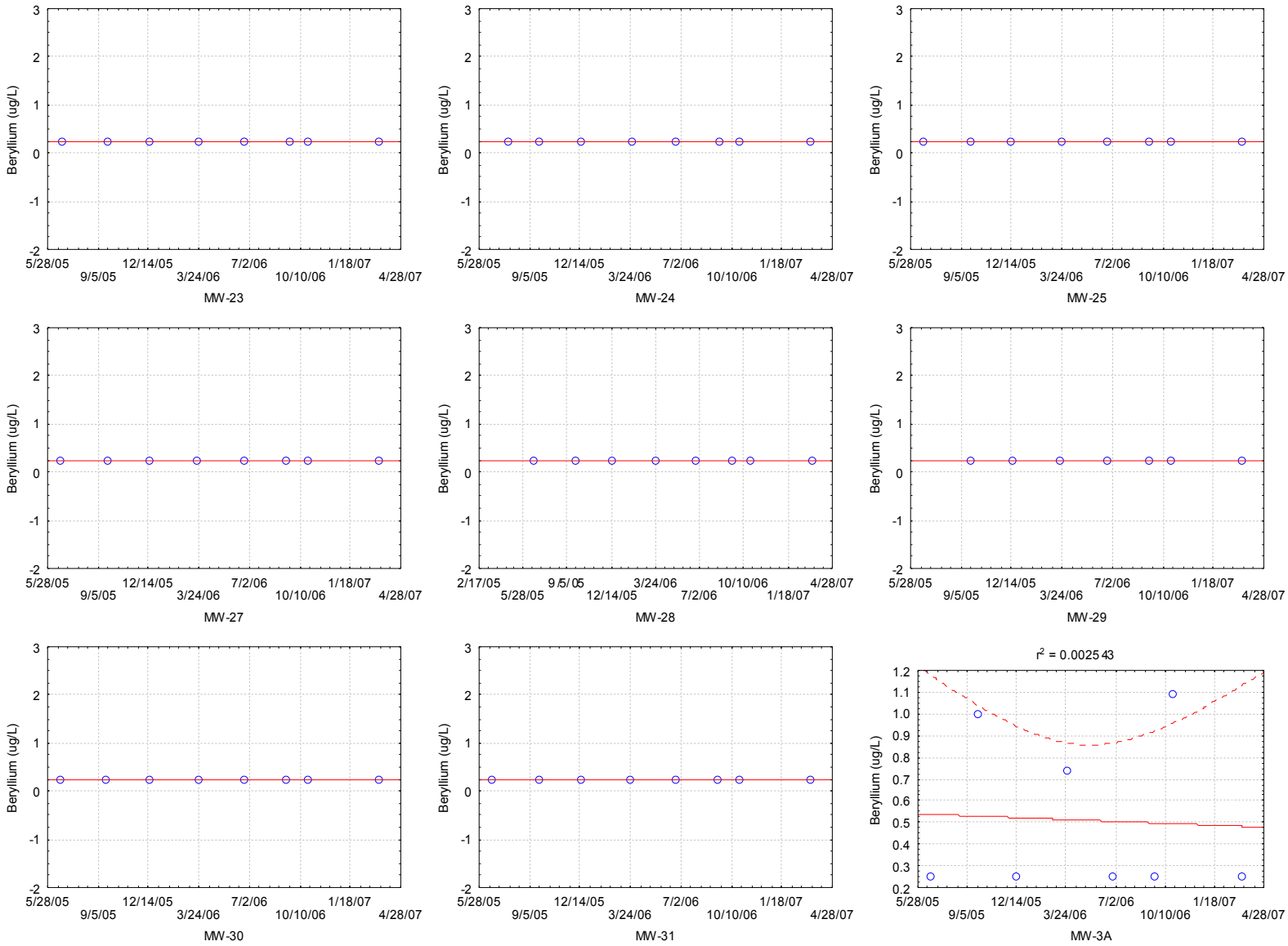




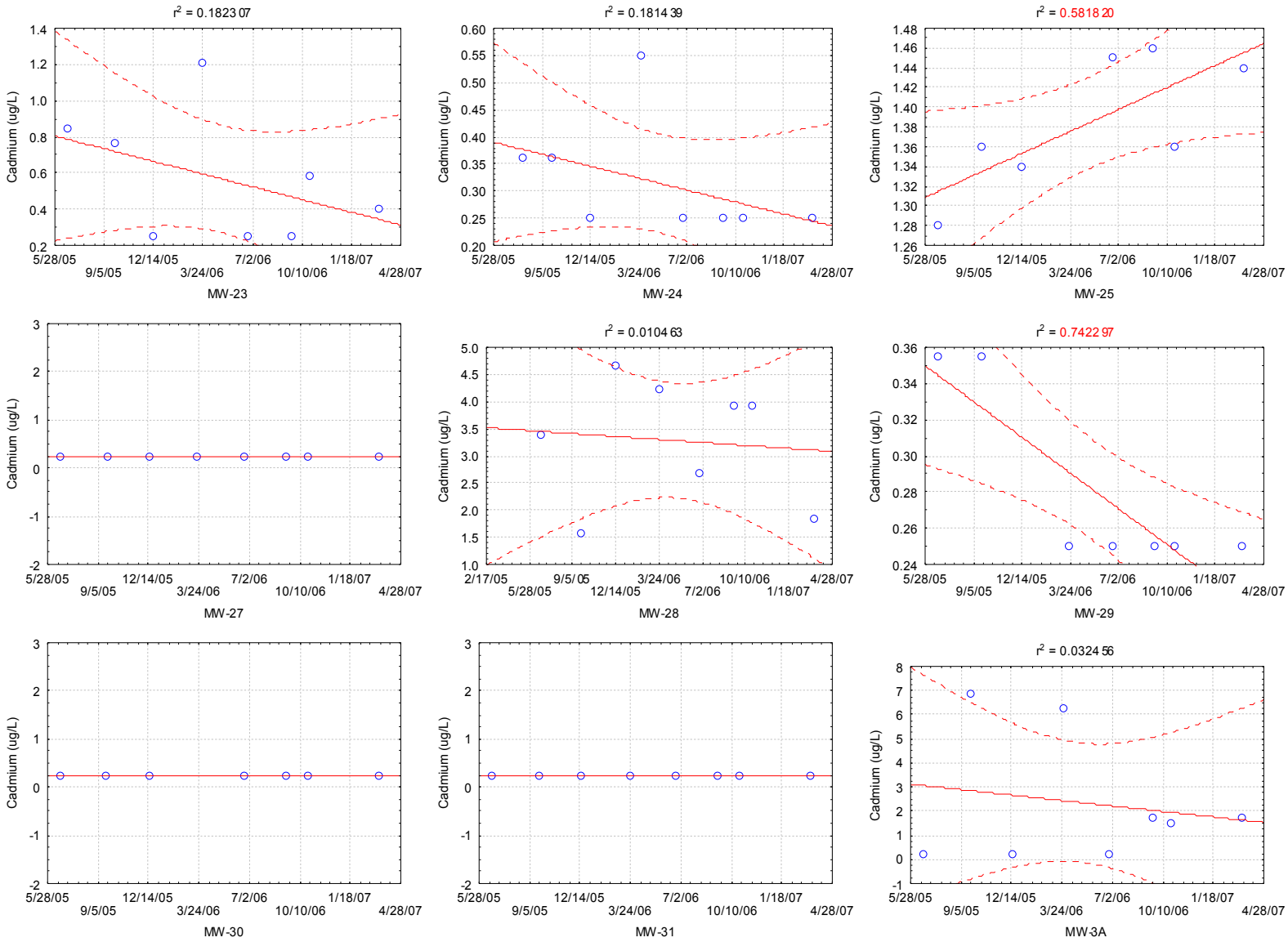




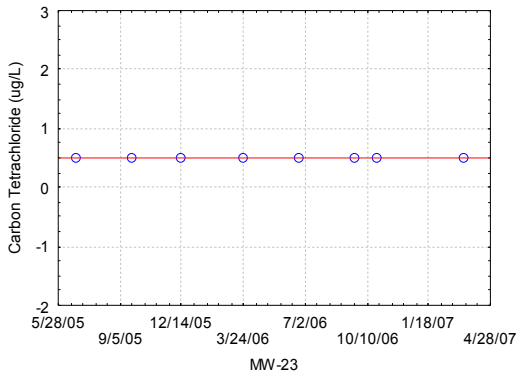
Beryllium Regression Analysis

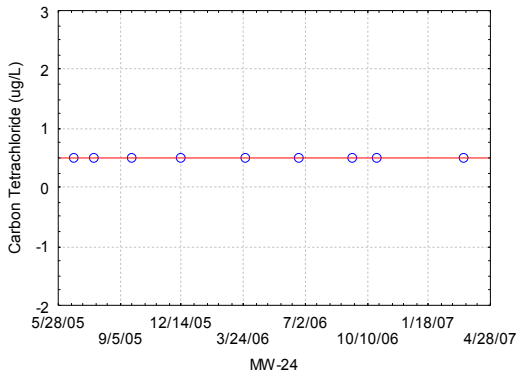


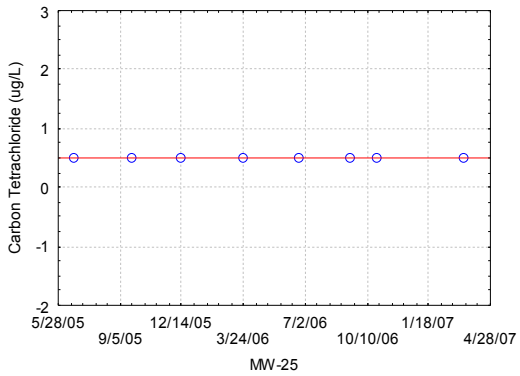
Cadmium Regression Analysis

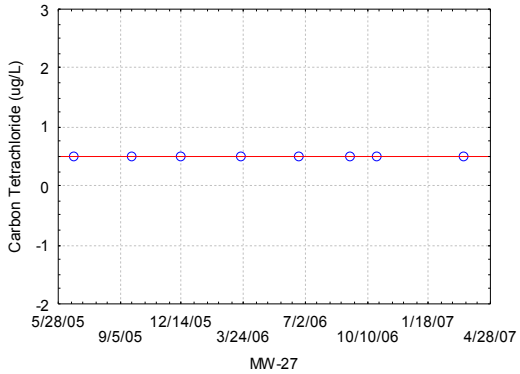


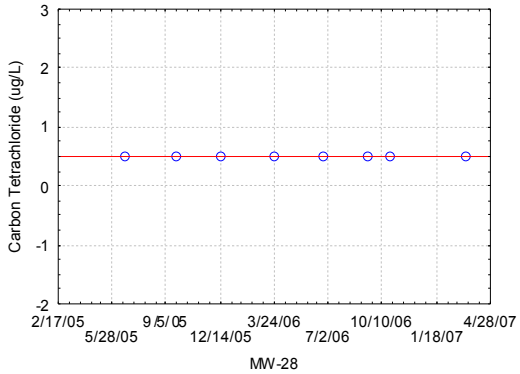
Carbon Tetrachloride Regression Analysis

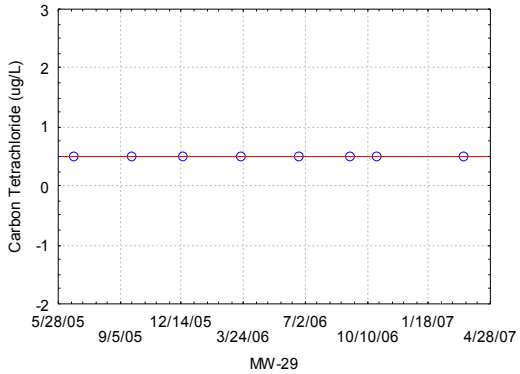


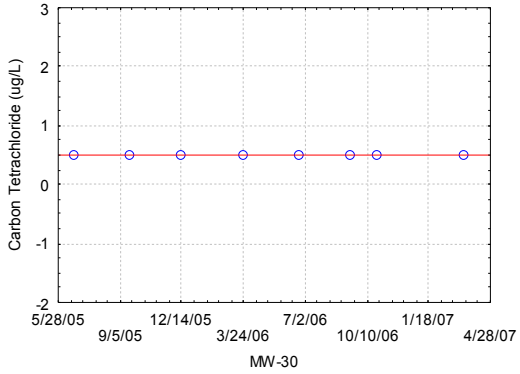


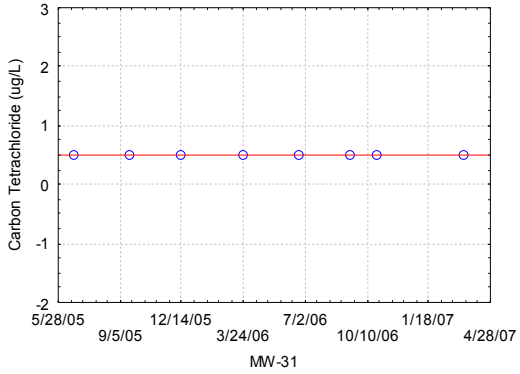


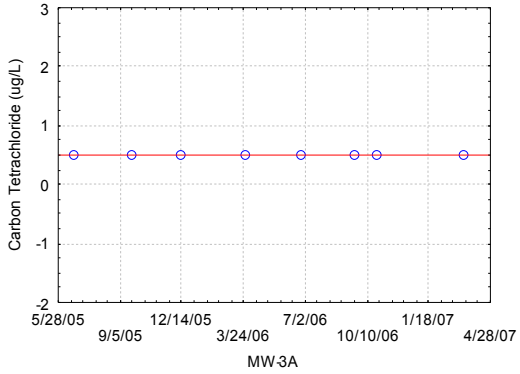




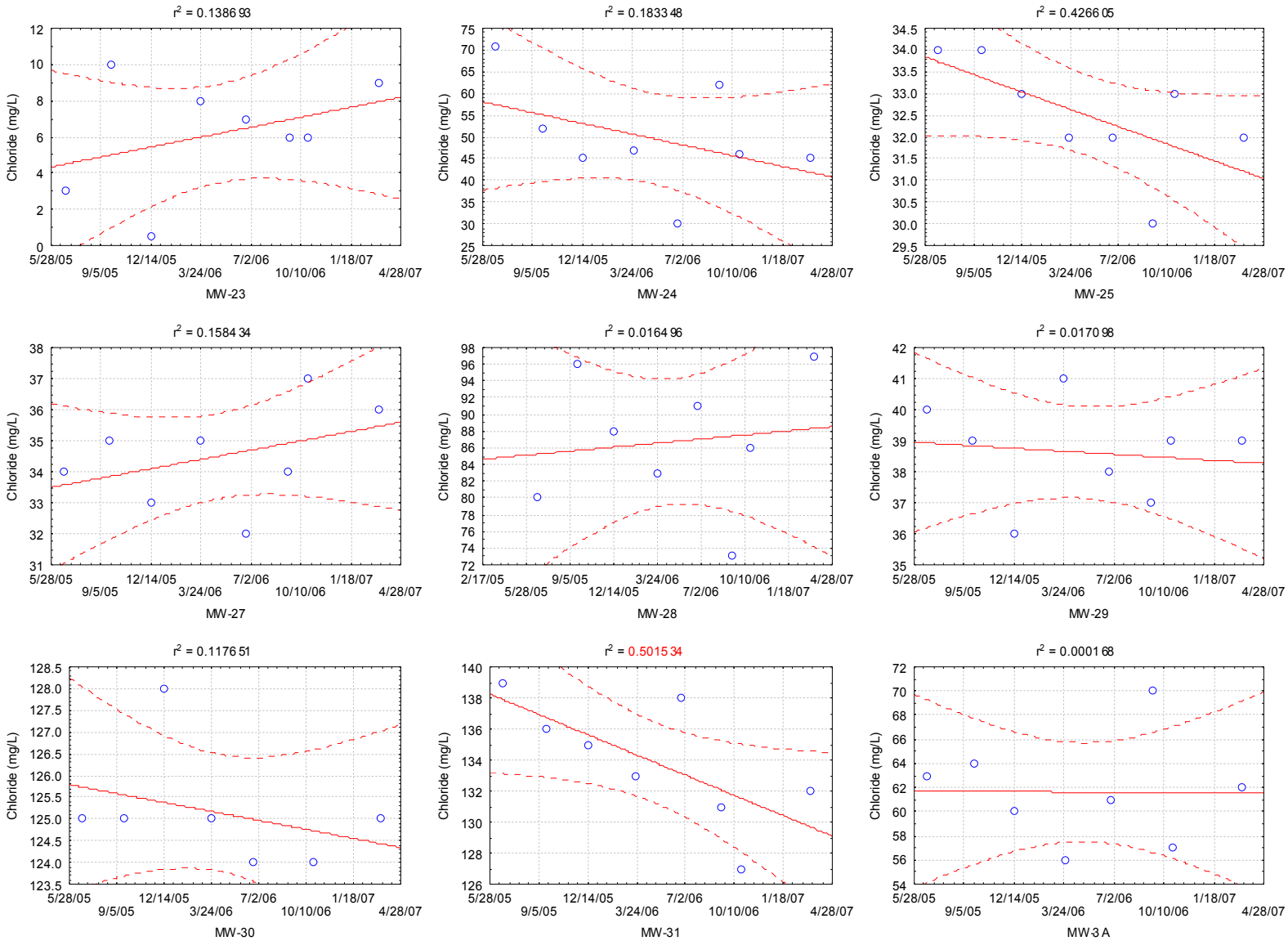




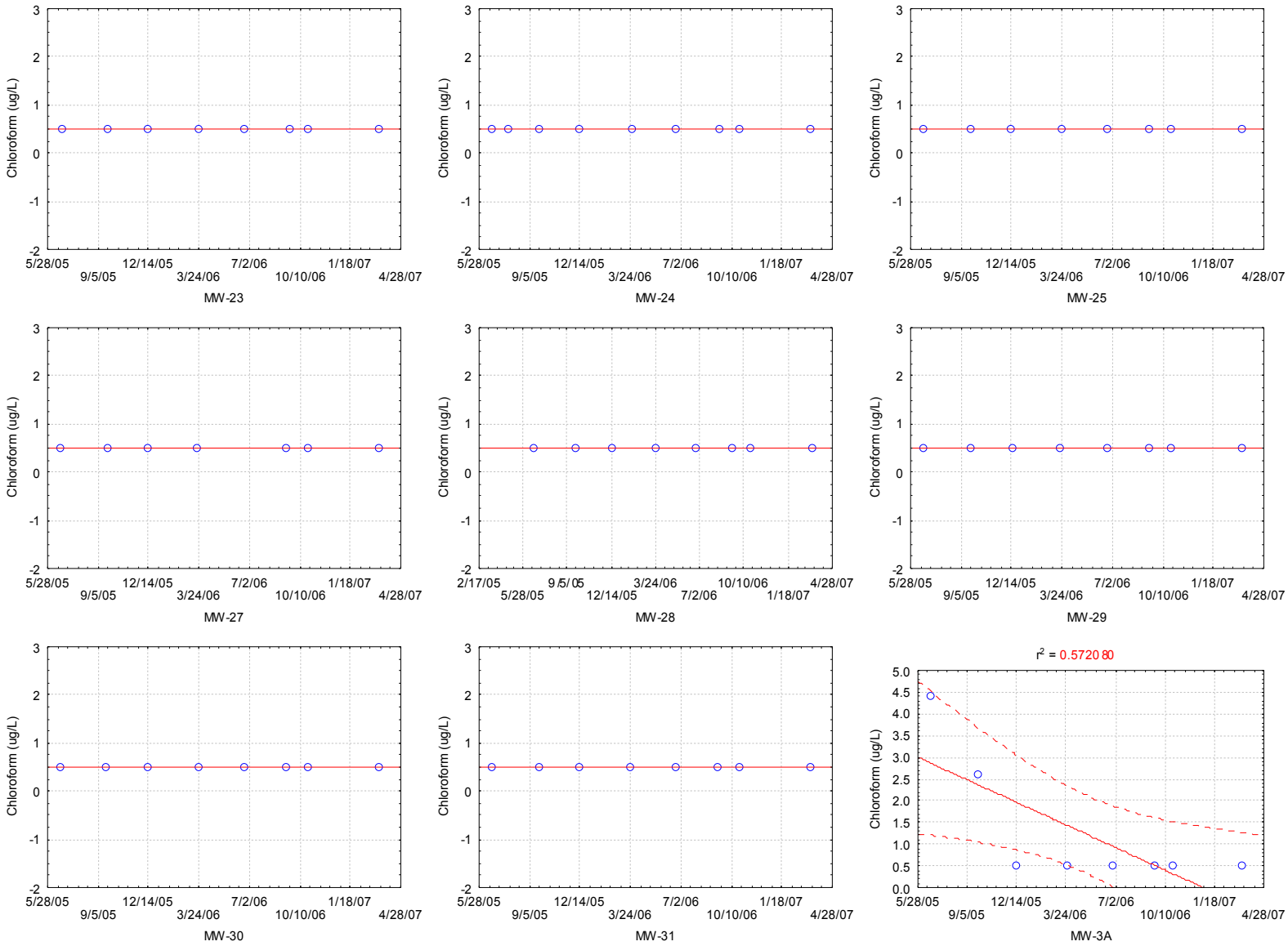




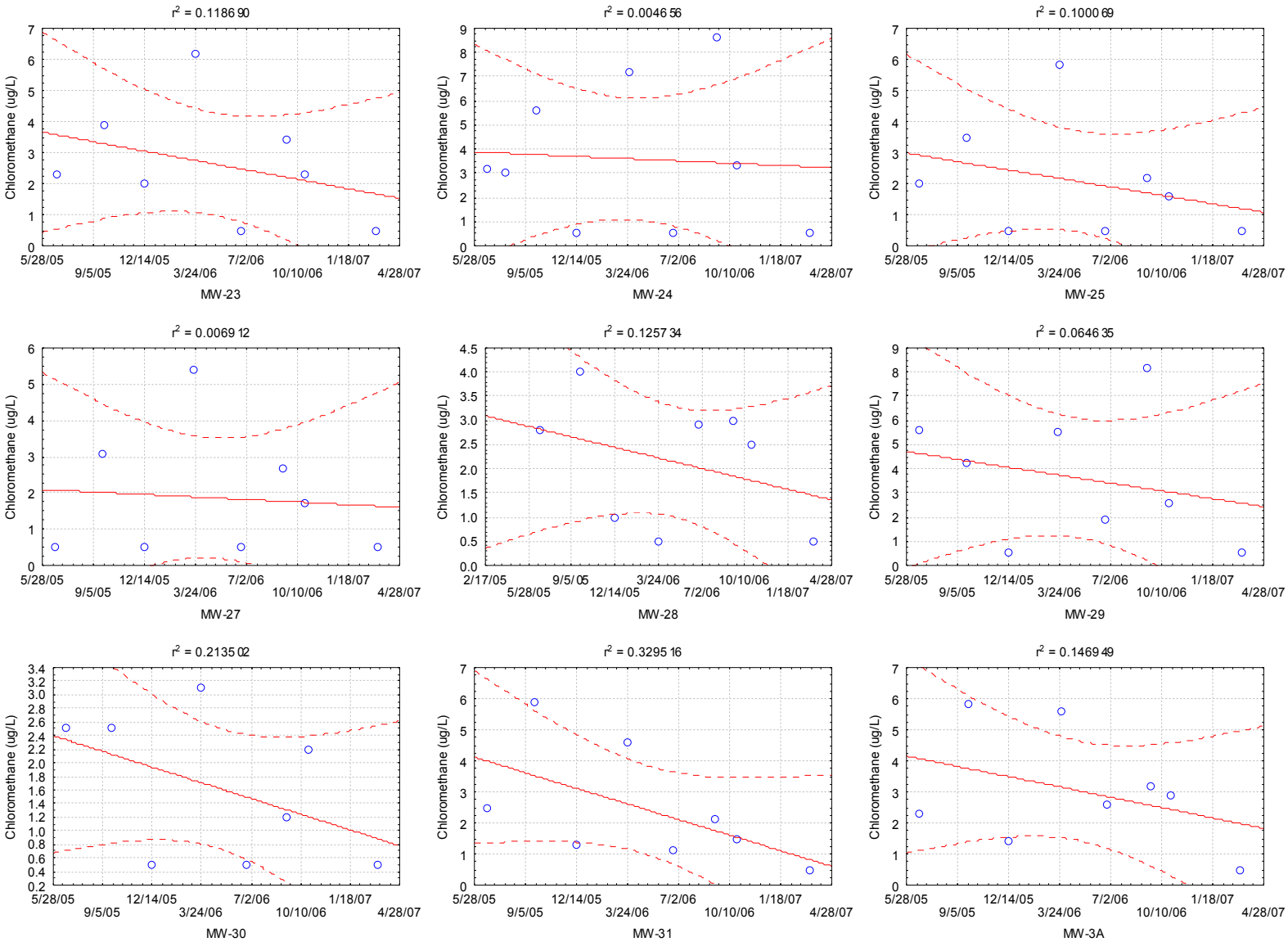
Chloride Regression Analysis



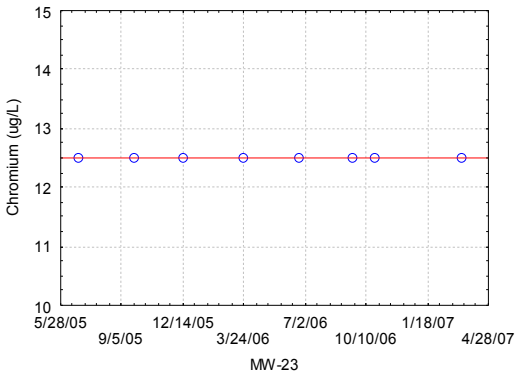
Chloroform Regression Analysis

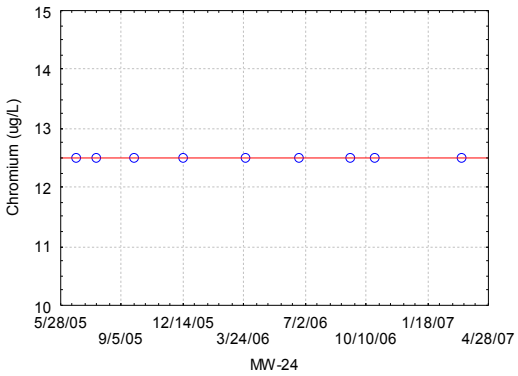


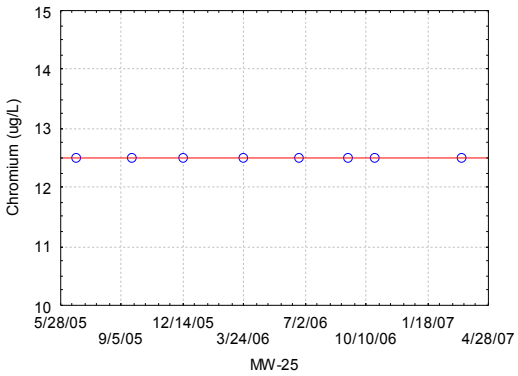
Chloromethane Regression Analysis

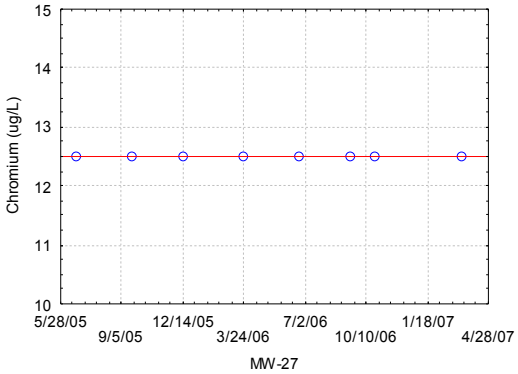


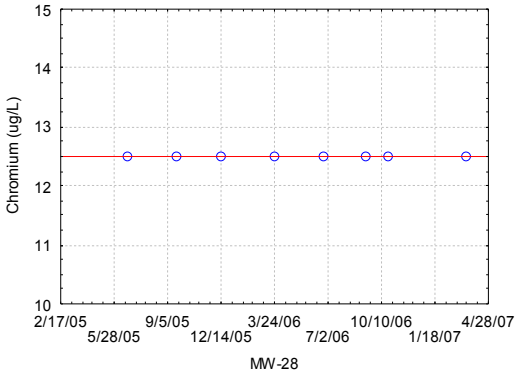
Chromium Regression Analysis

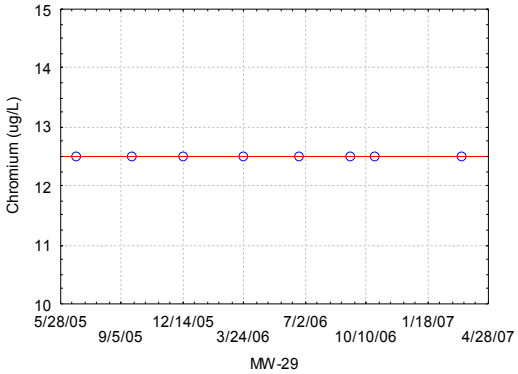


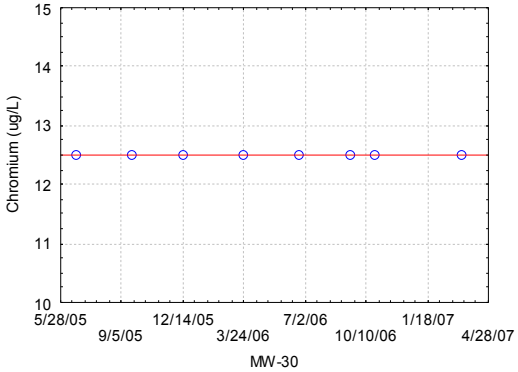


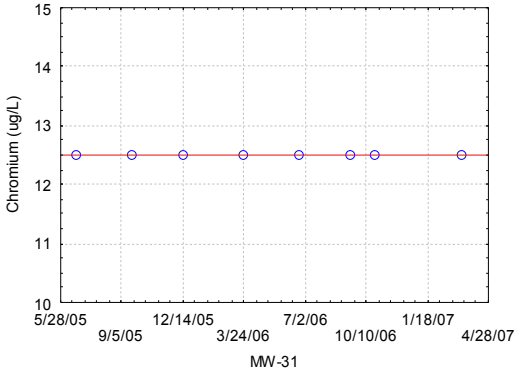


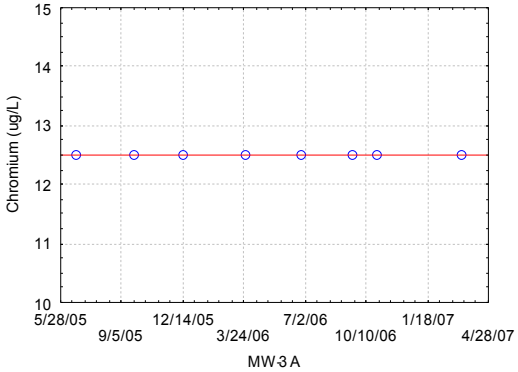




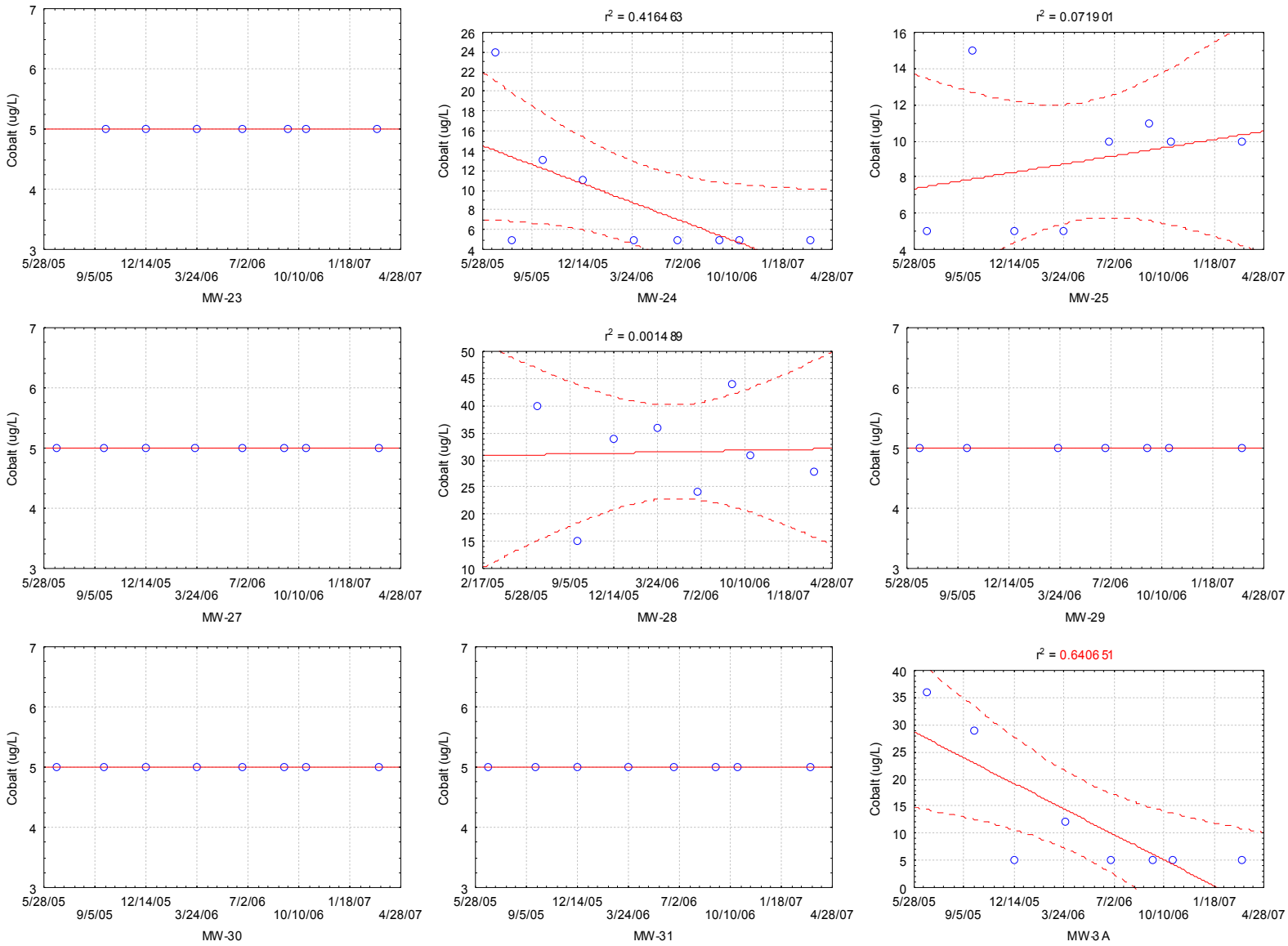




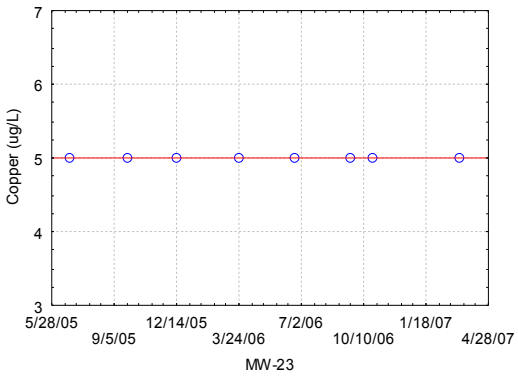


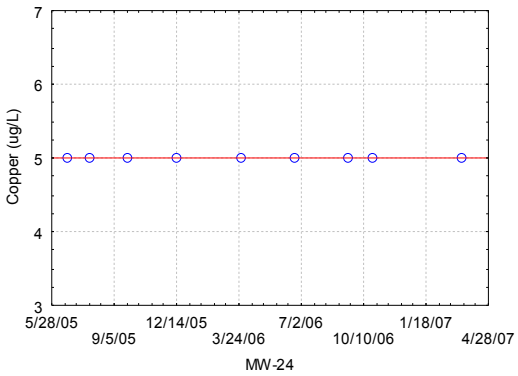


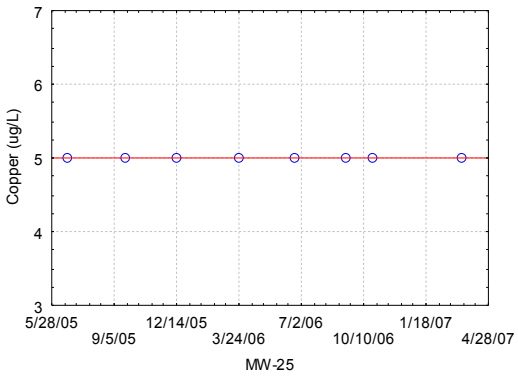
Cobalt Regression Analysis

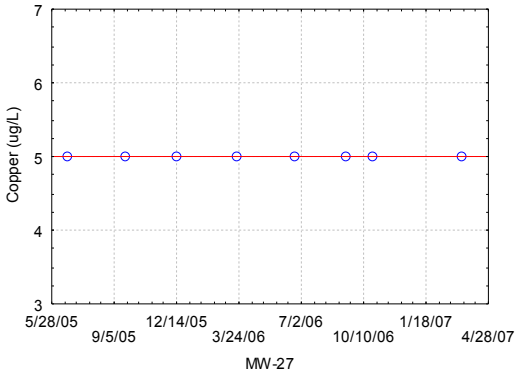


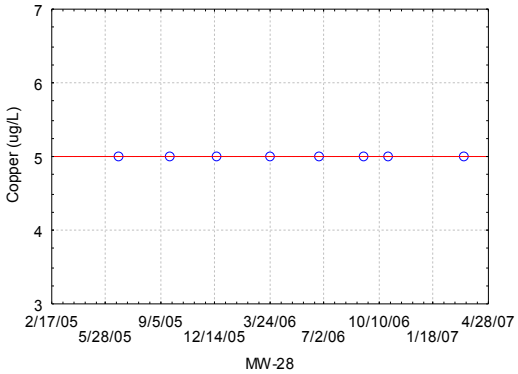
Copper Regression Analysis

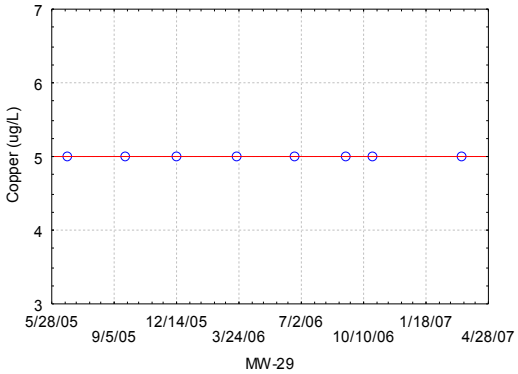


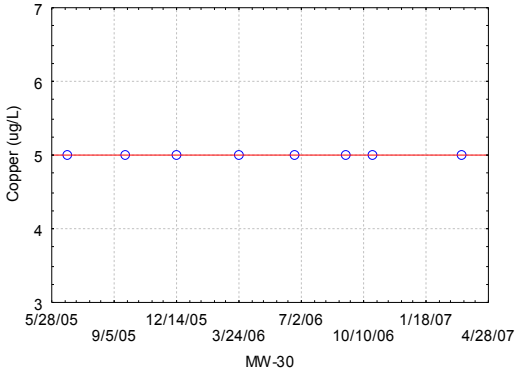


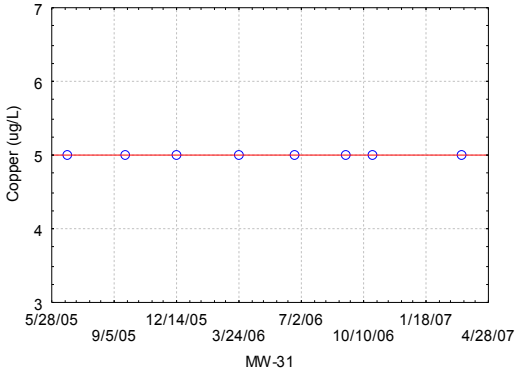


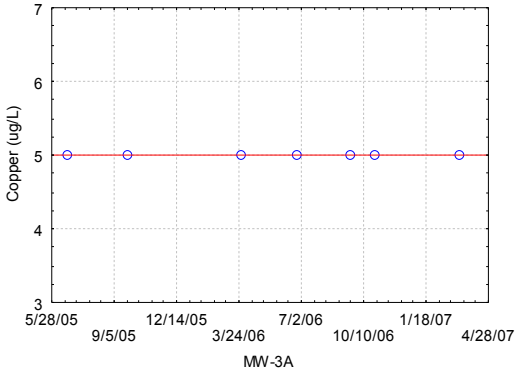




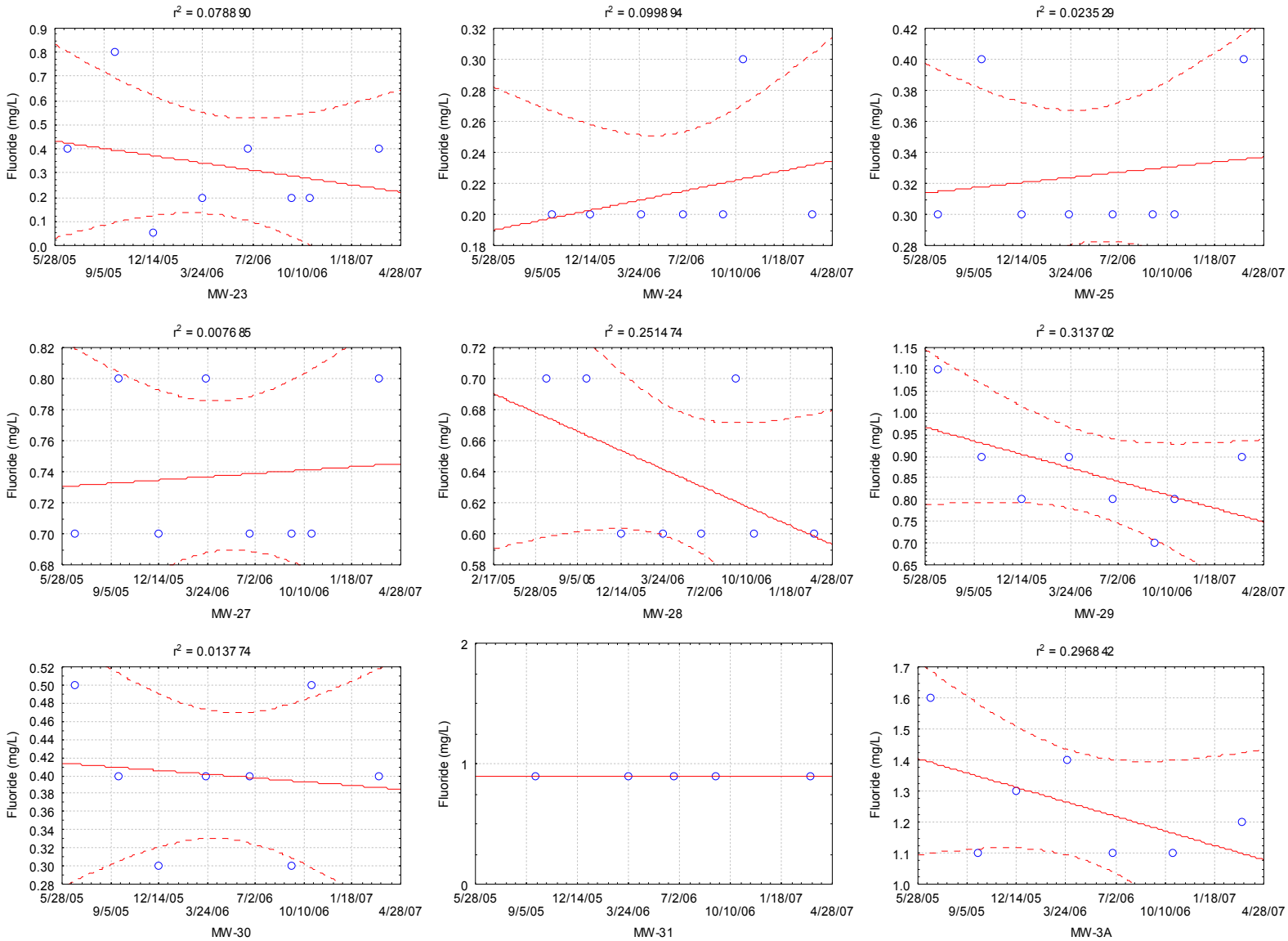




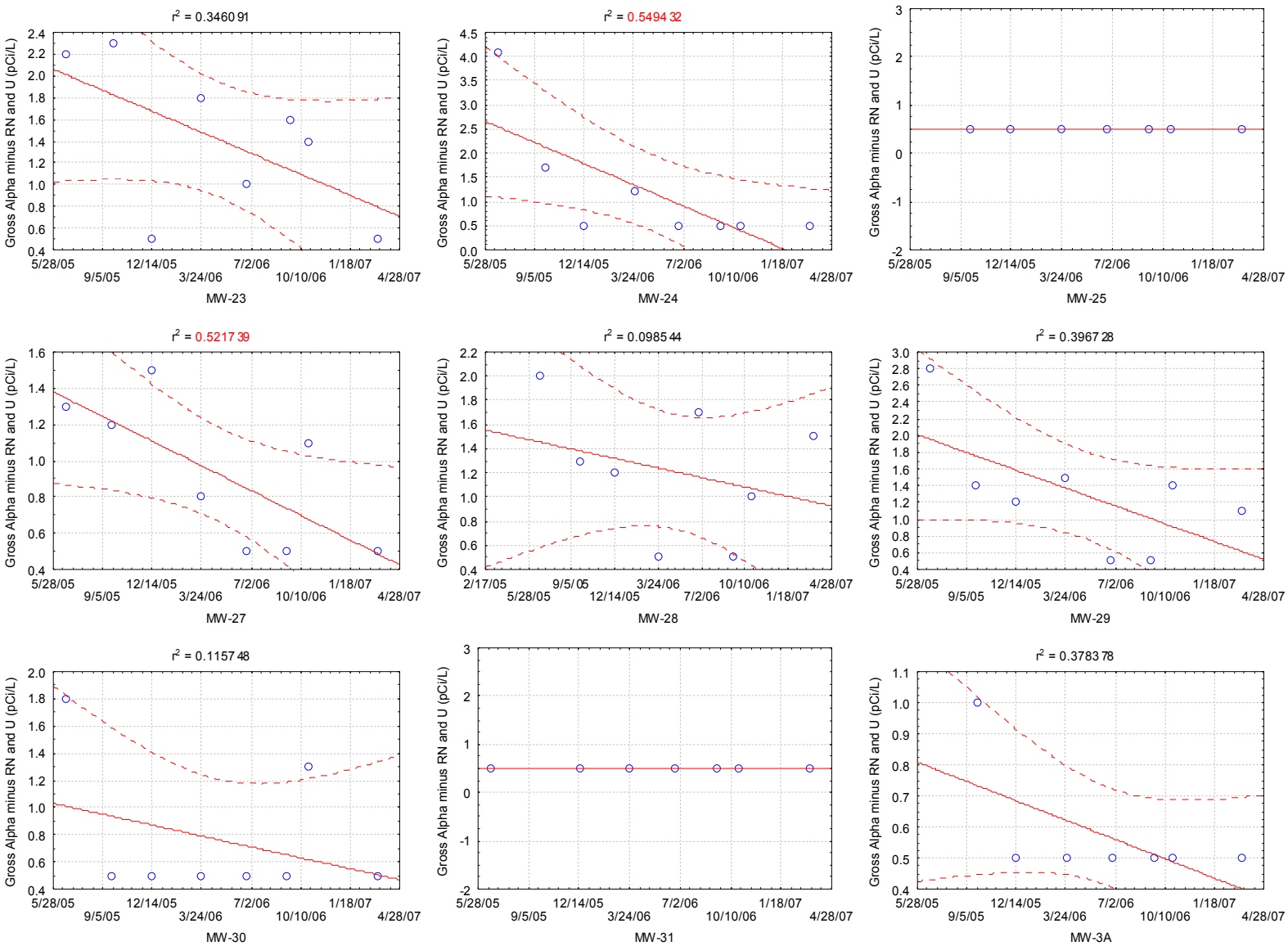




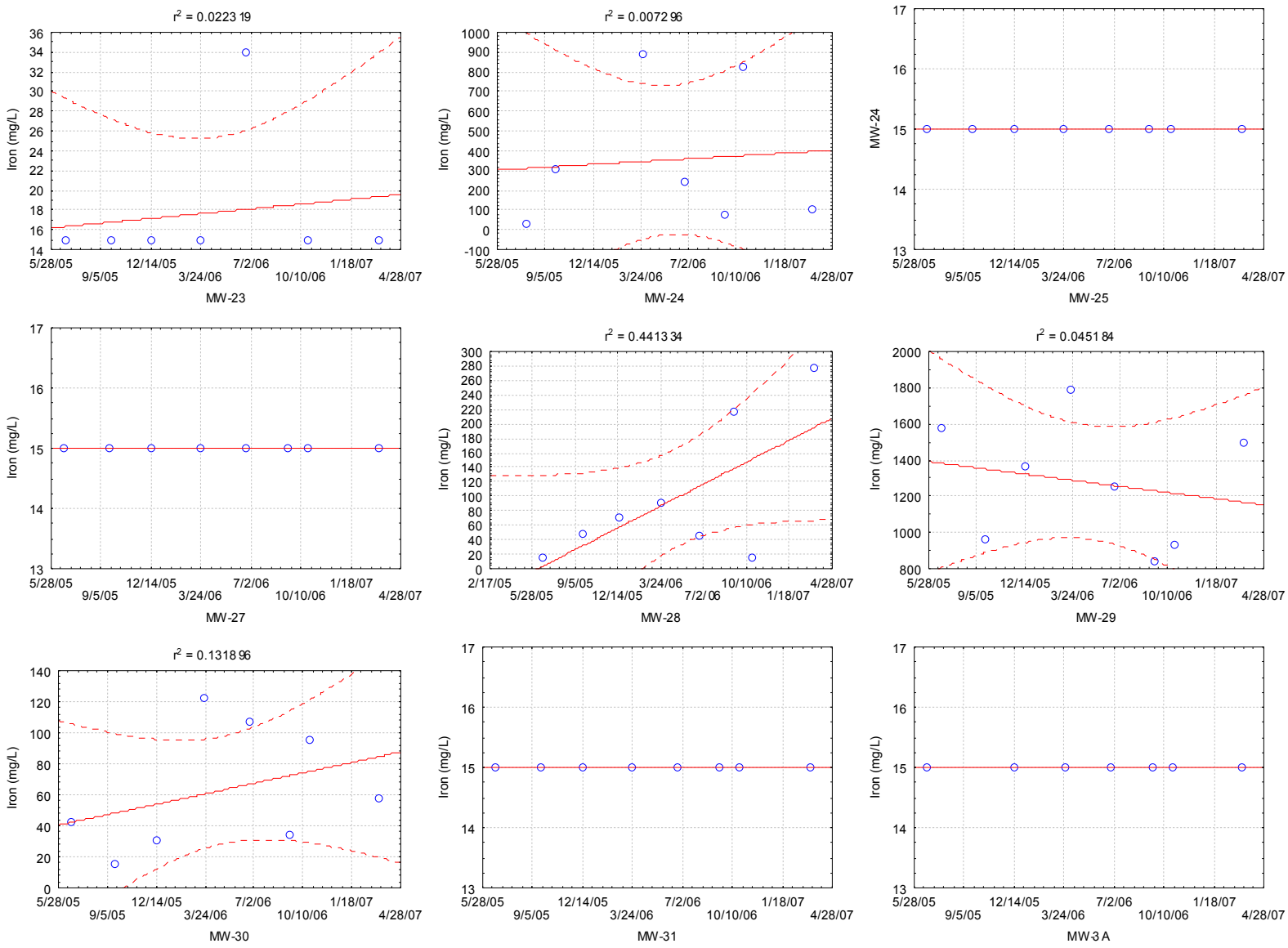
Fluoride Regression Analysis



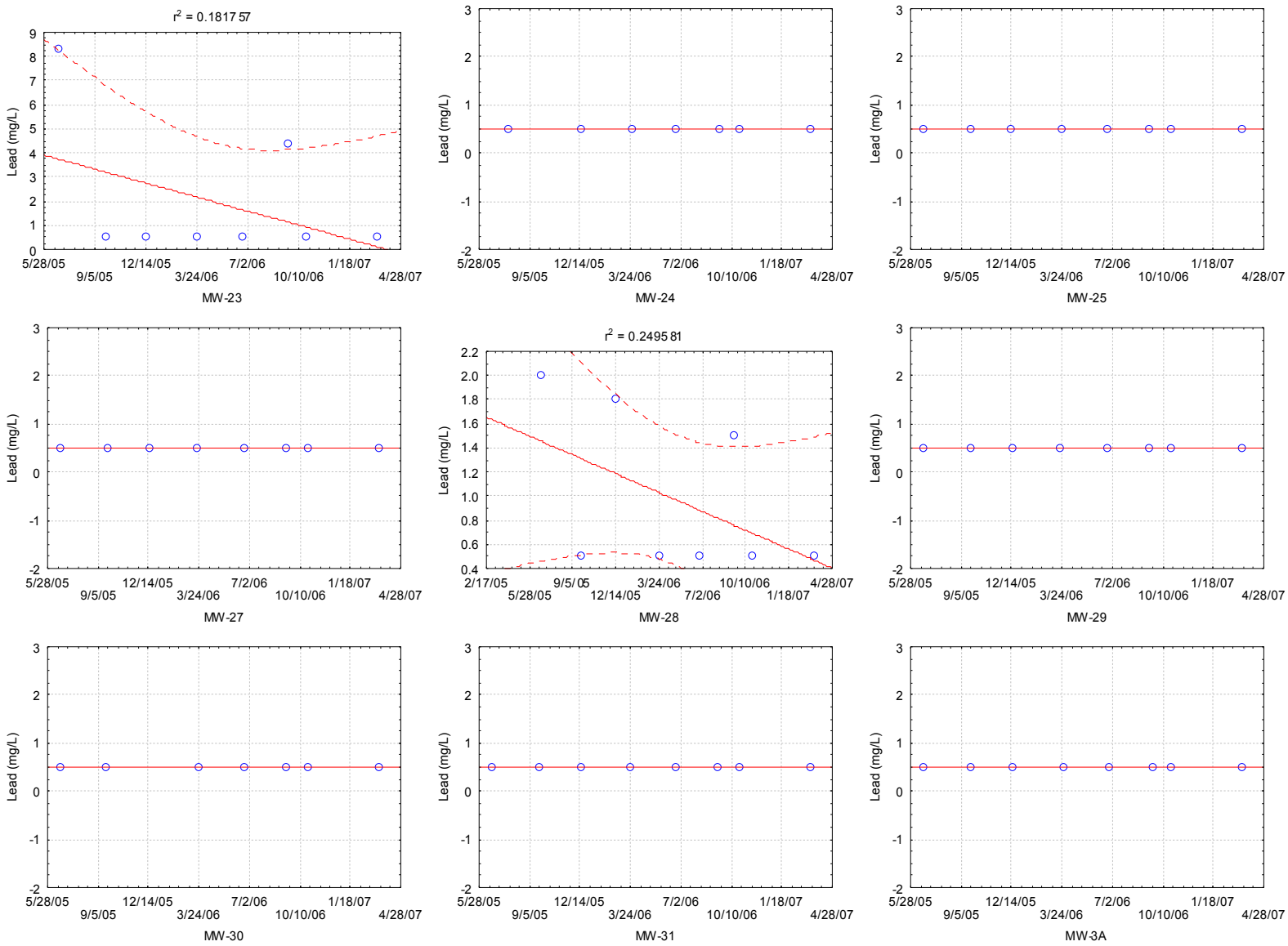
Gross Alpha Regression Analysis



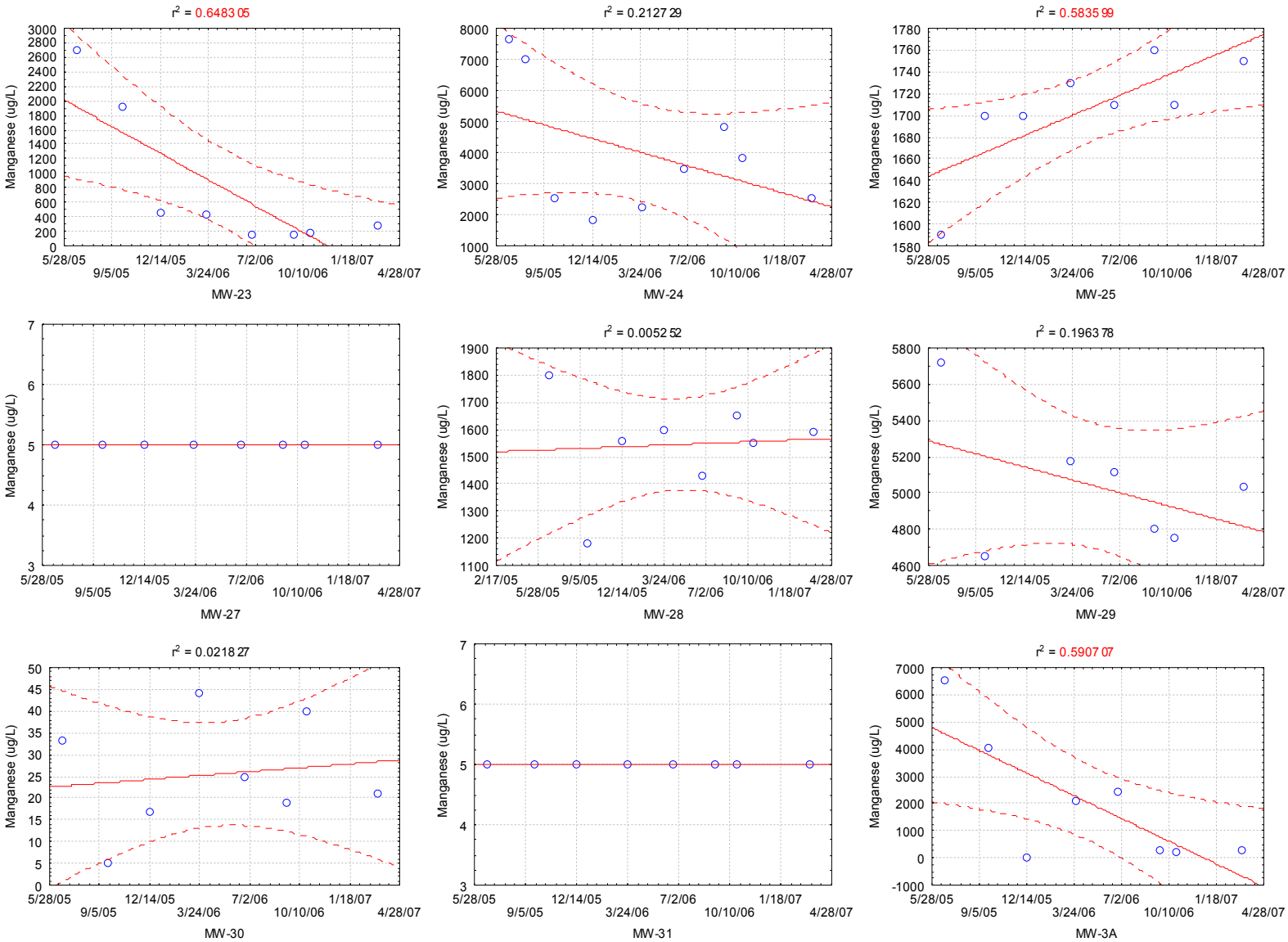
Iron Regression Analysis



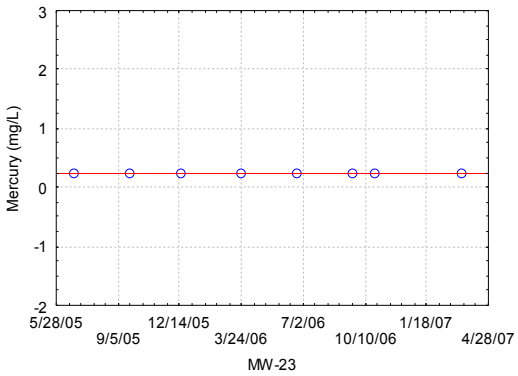
Lead Regression Analysis



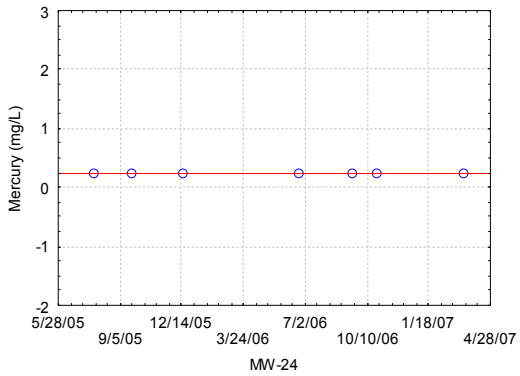
Manganese Regression Analysis



Mercury Regression Analysis



MW-23



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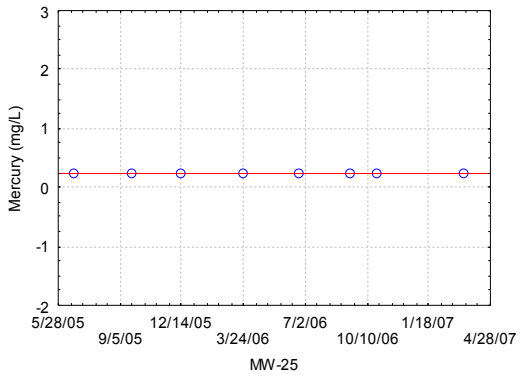
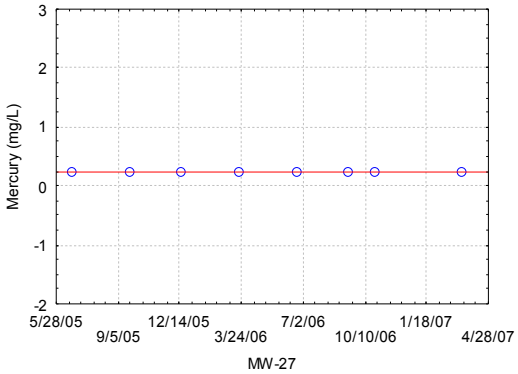


MW-25



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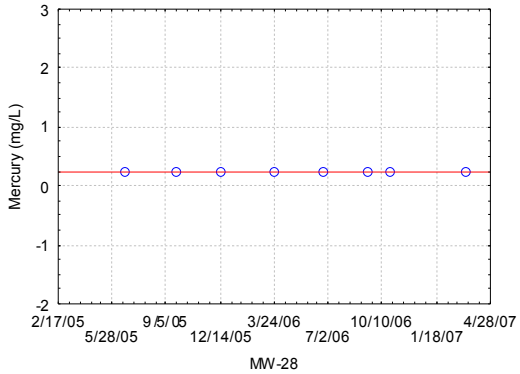

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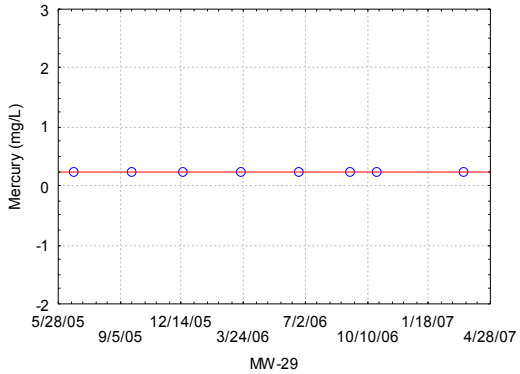

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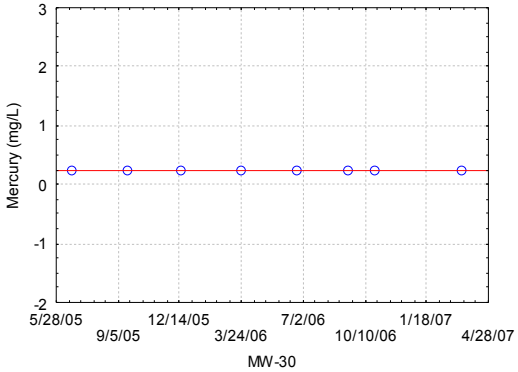

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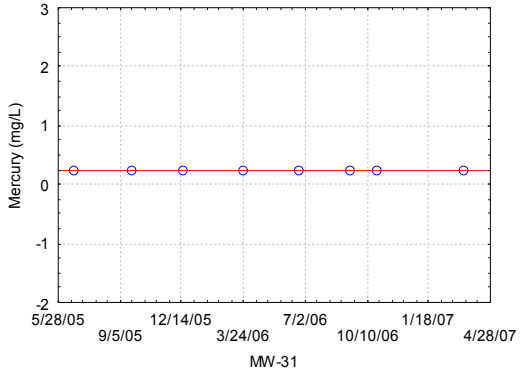
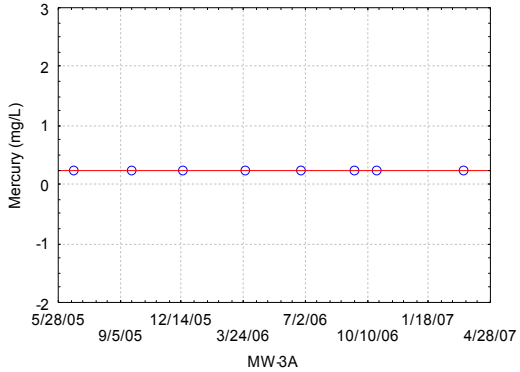
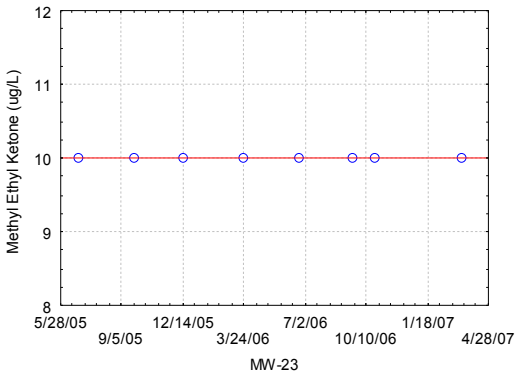


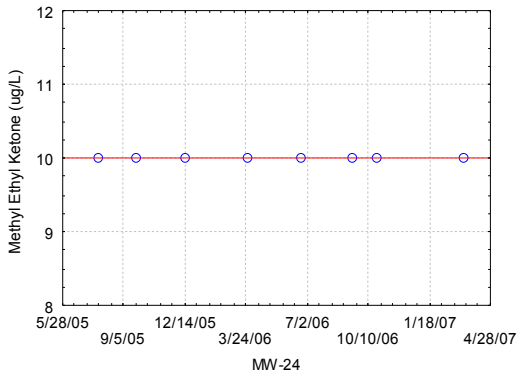
MW-31

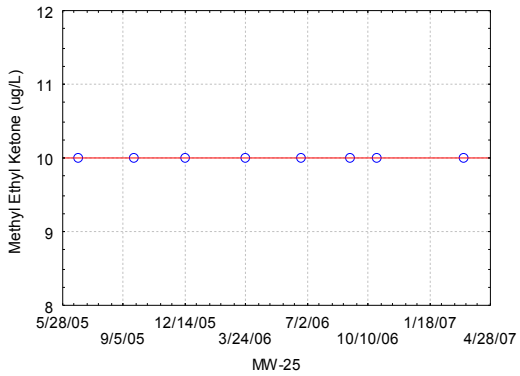


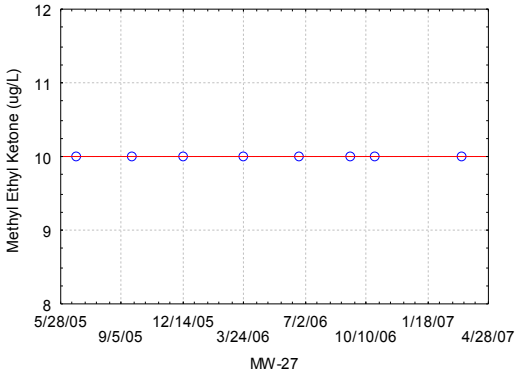
MW-3A

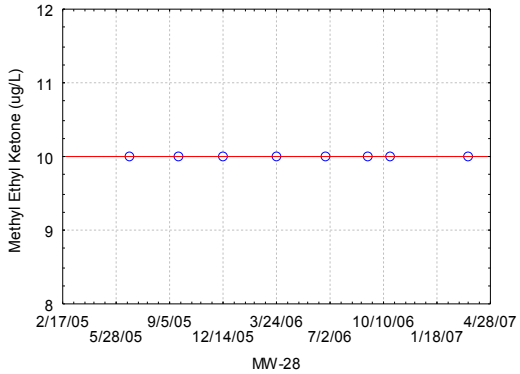
Methyl Ethyl Ketone Regression Analysis

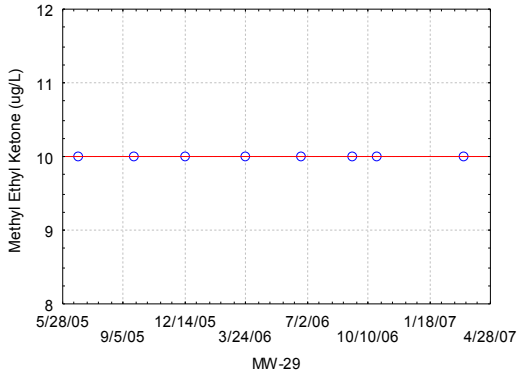


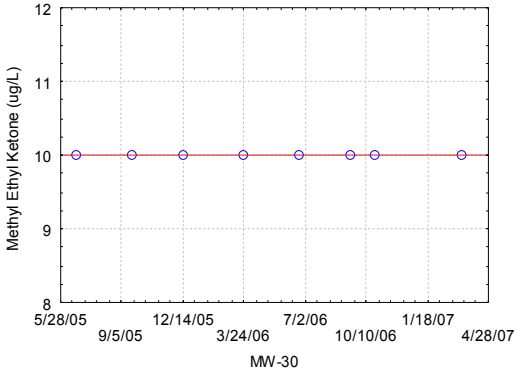


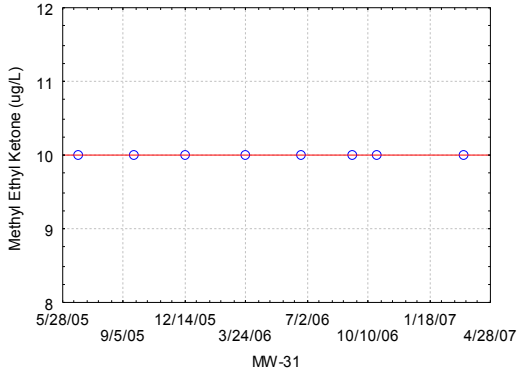


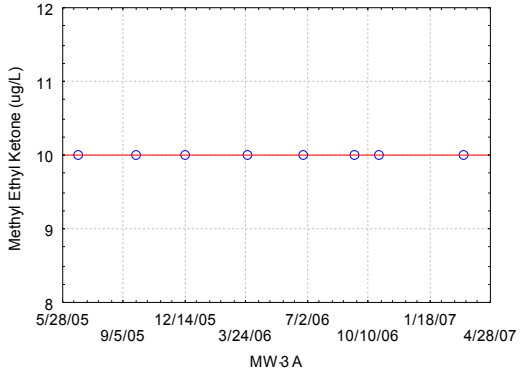




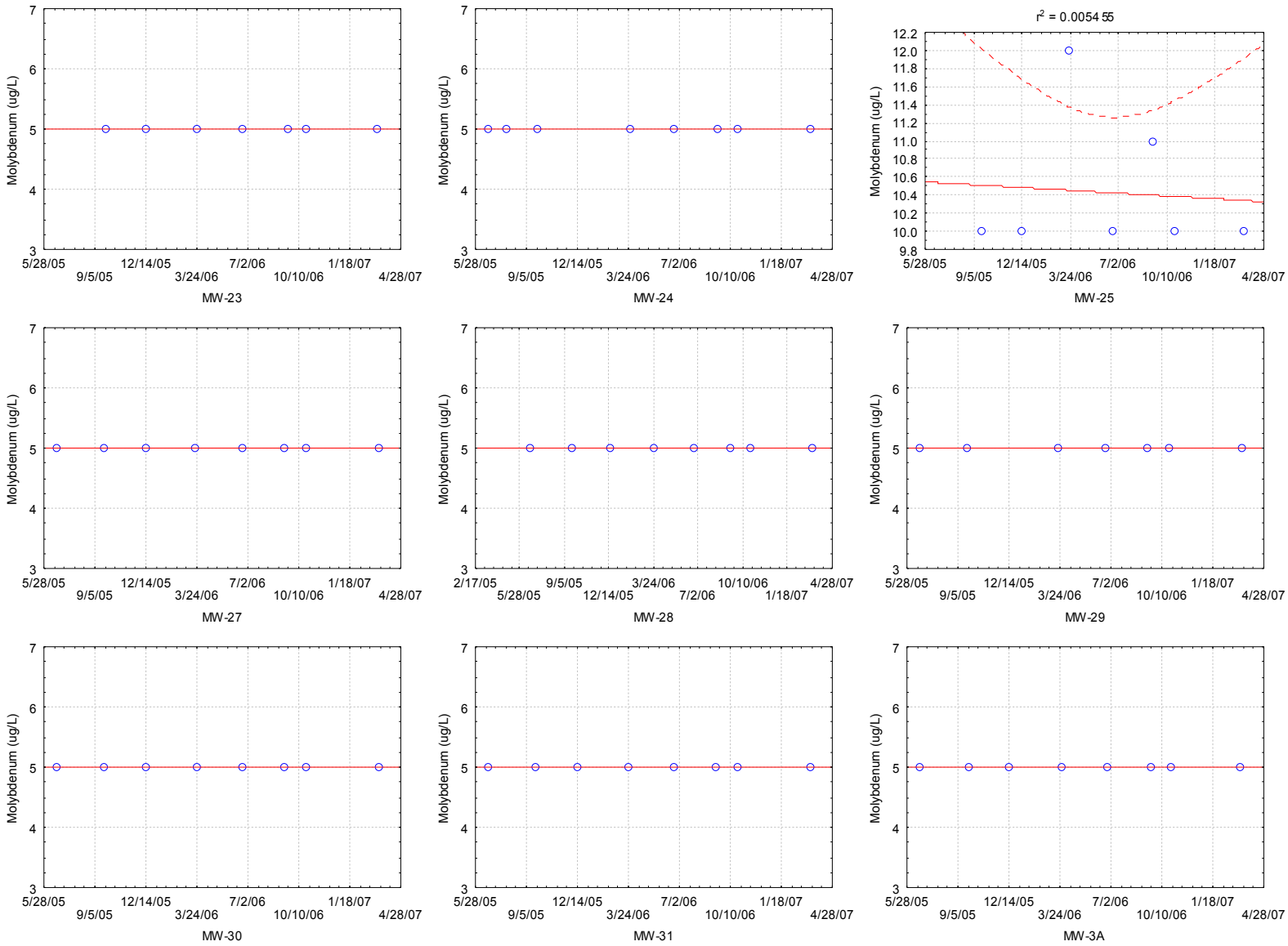




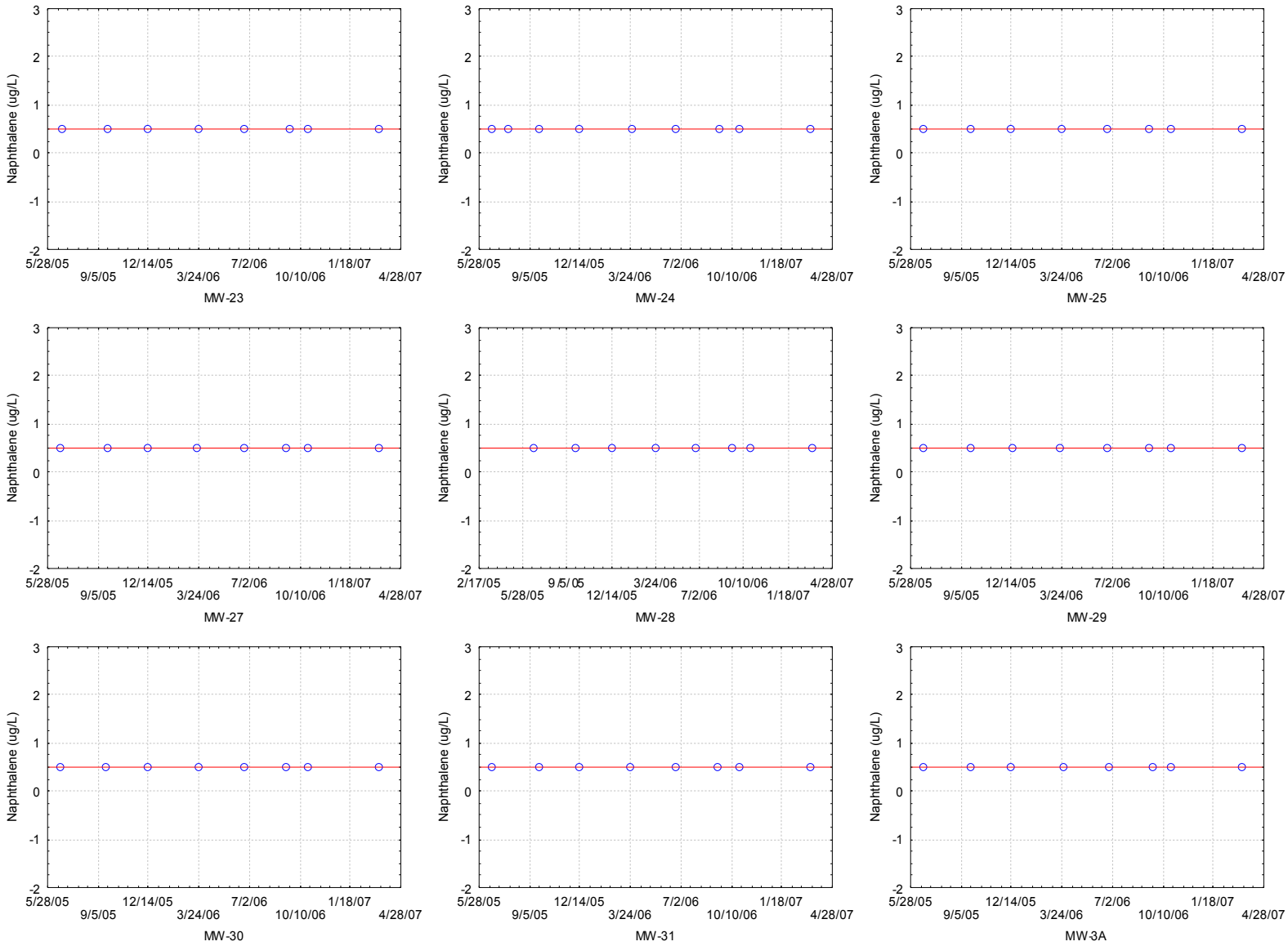




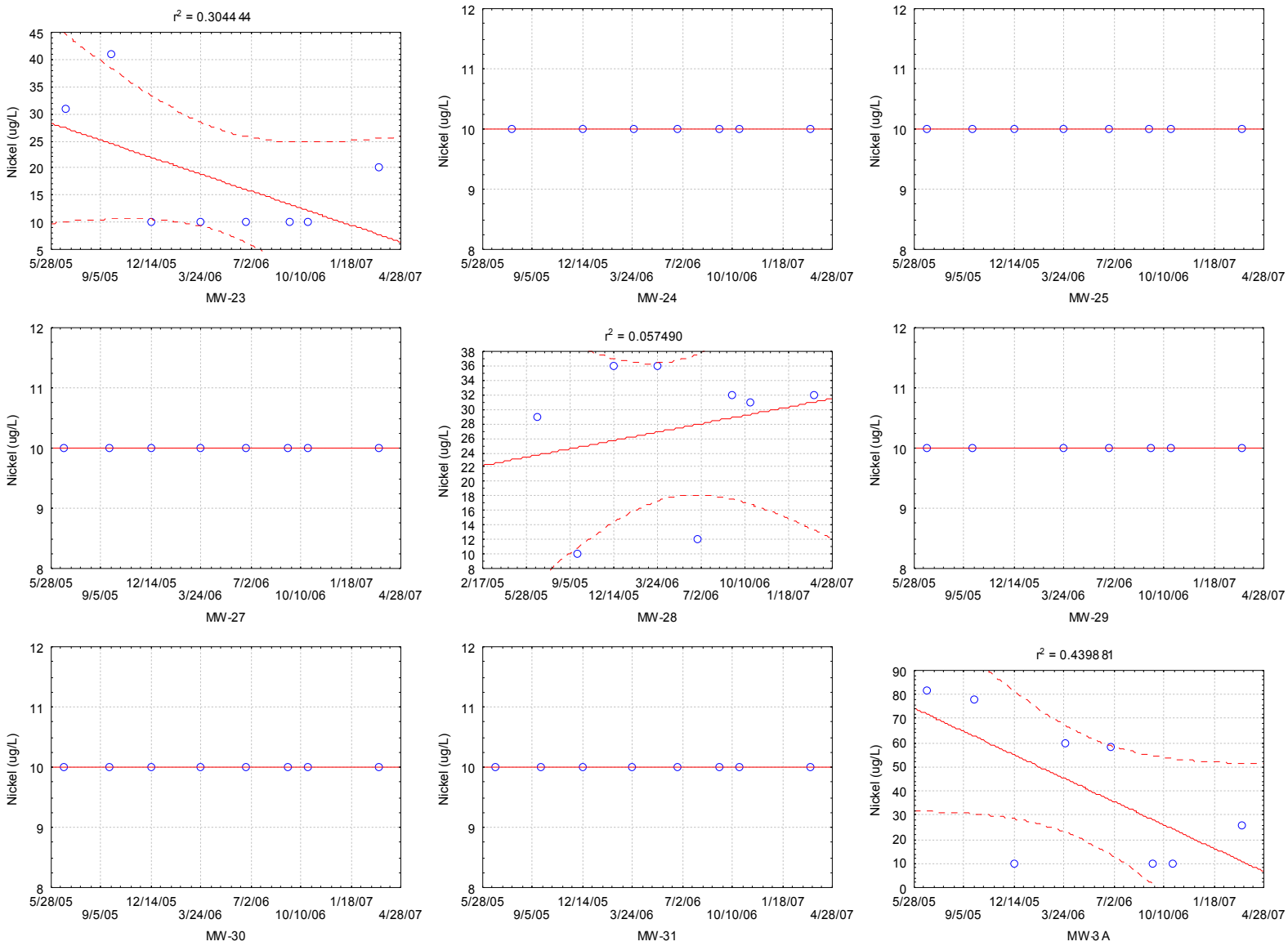
Molybdenum Regression Analysis



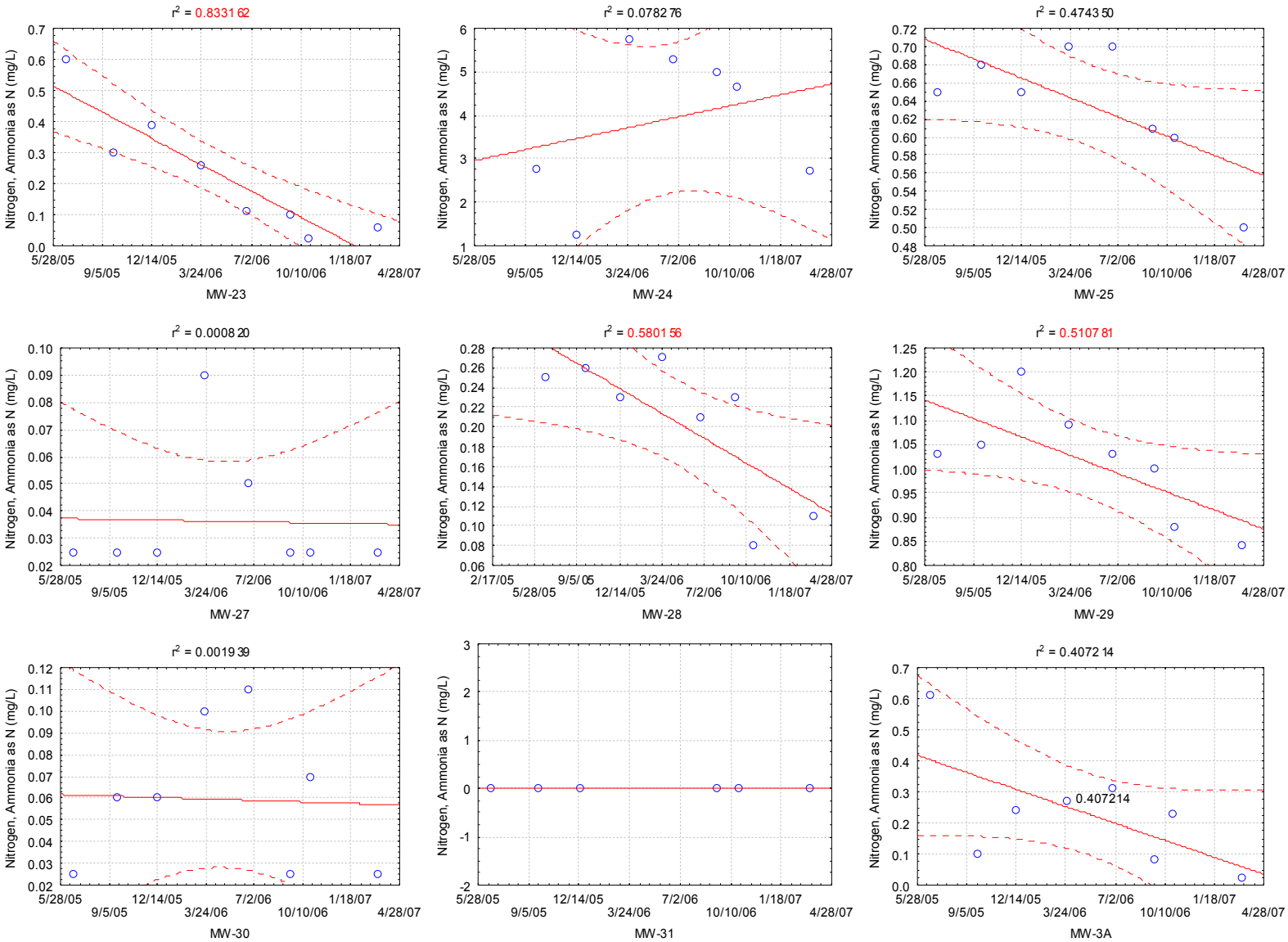
Naphthalene Regression Plot



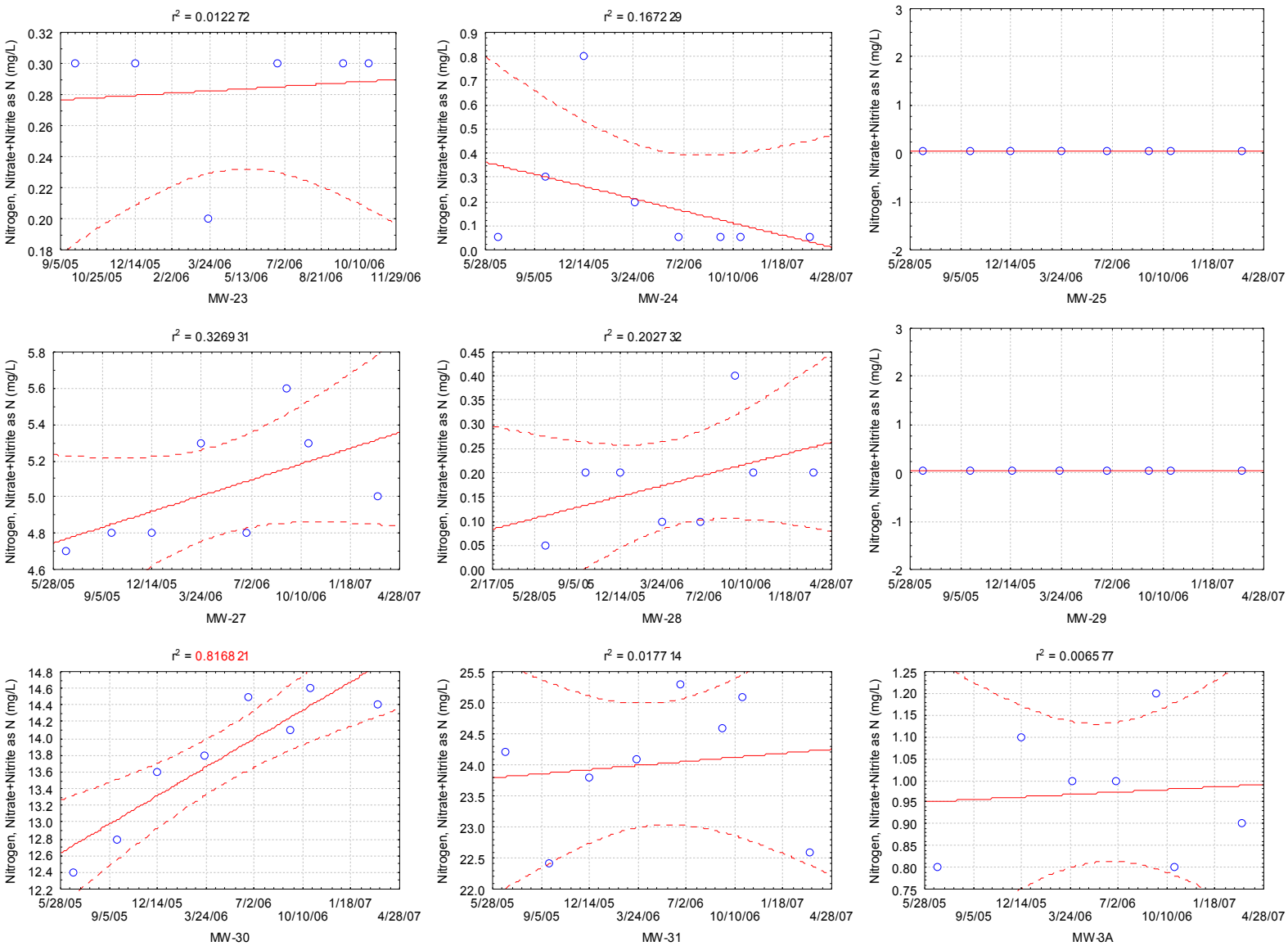
Nickel Regression Analysis



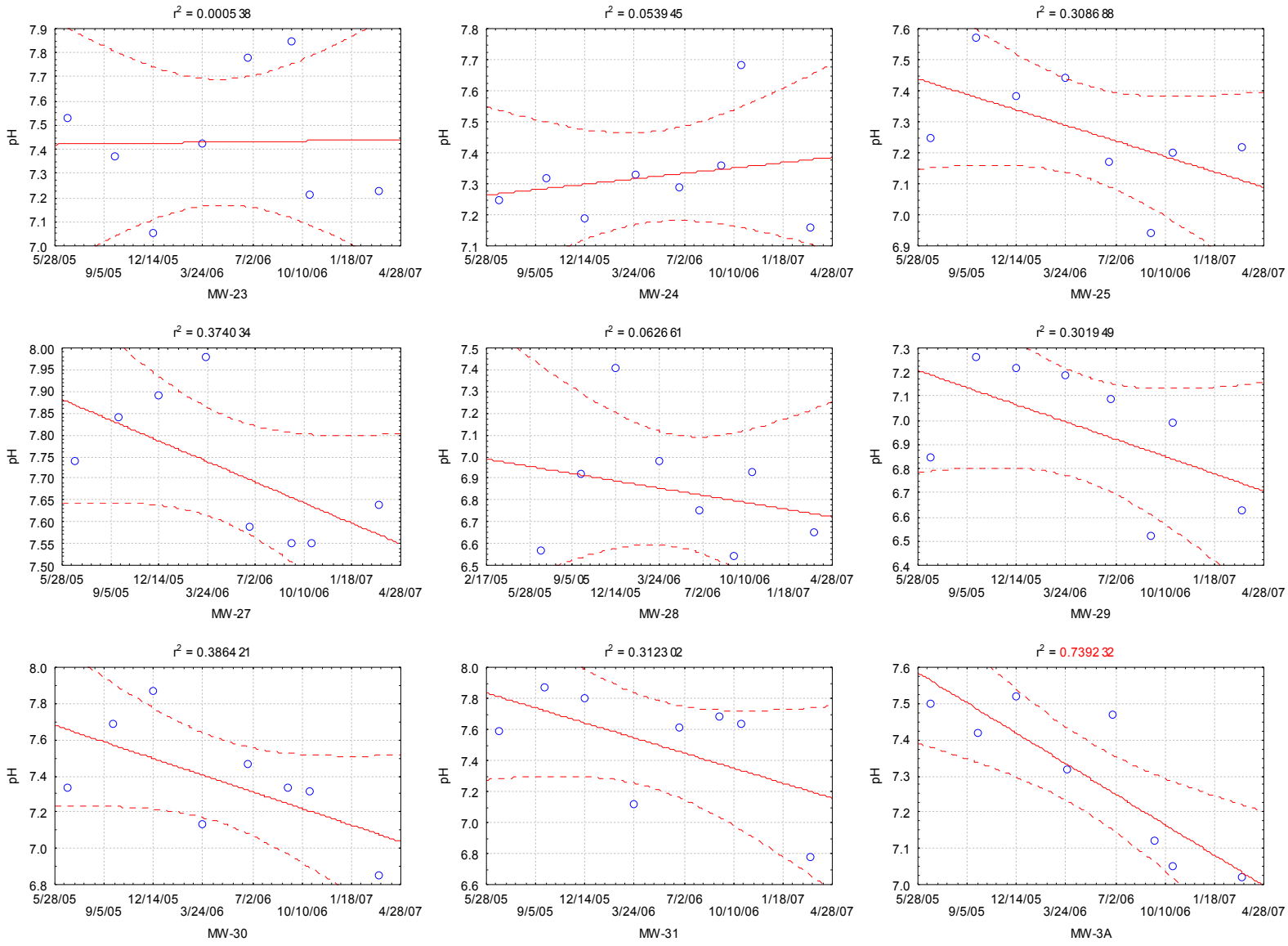
Nitrogen, Ammonia as N Regression Analysis



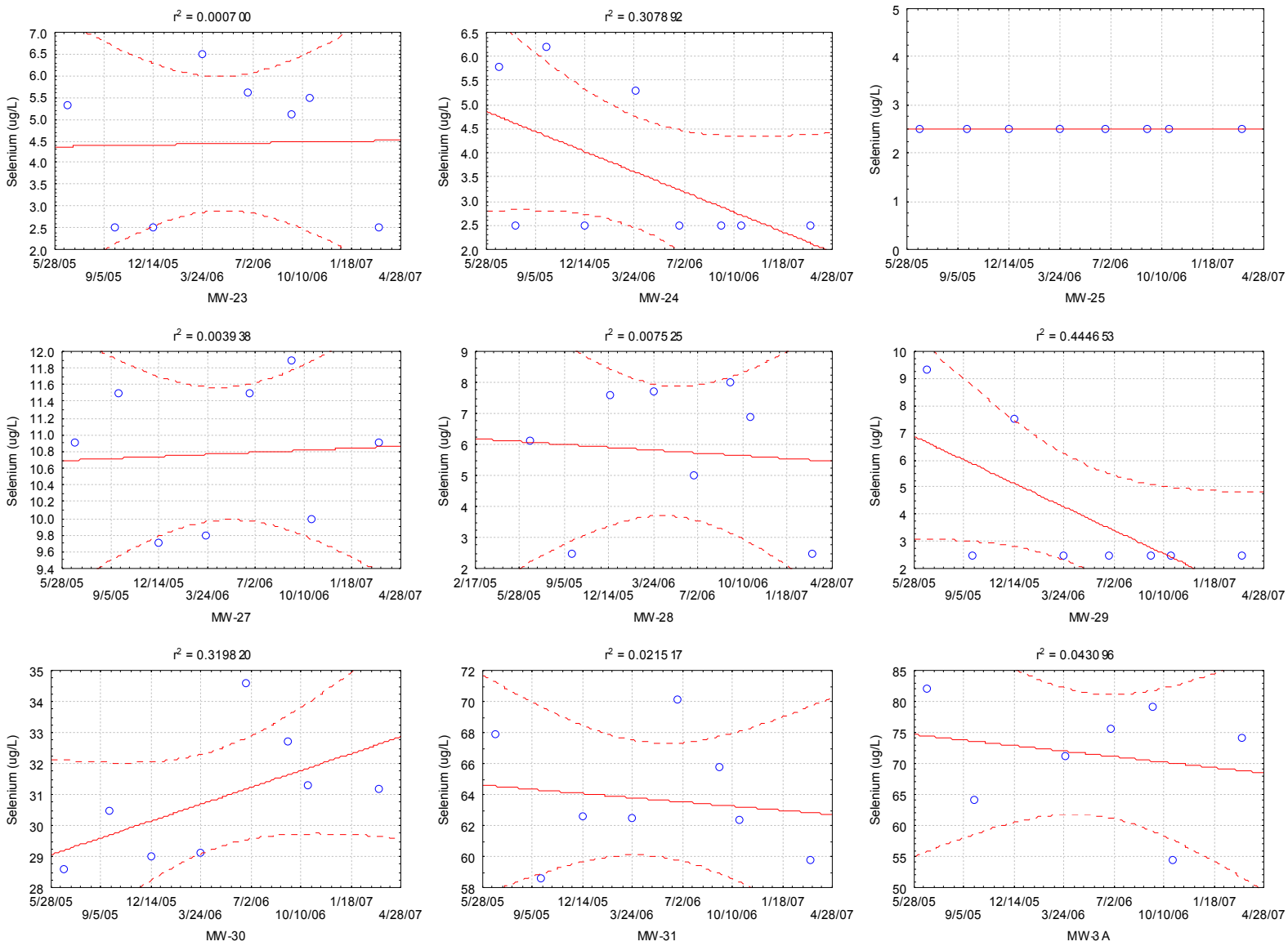
Nitrogen, Nitrate + Nitrite Regression Analysis



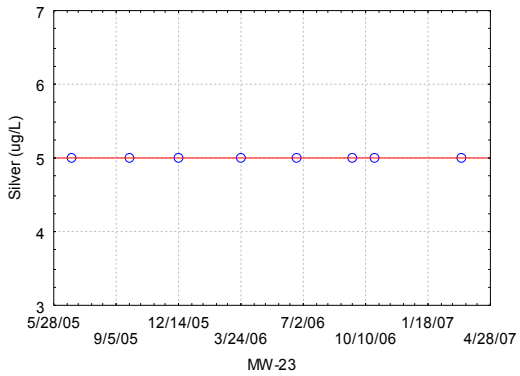
pH Regression Analysis

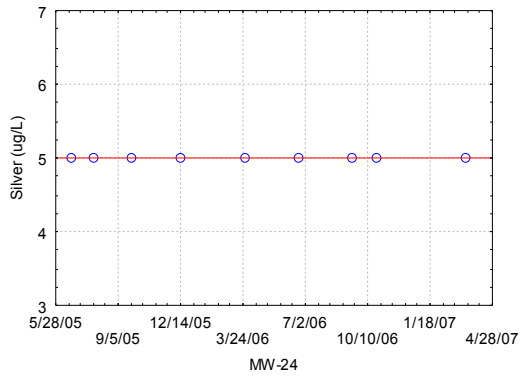


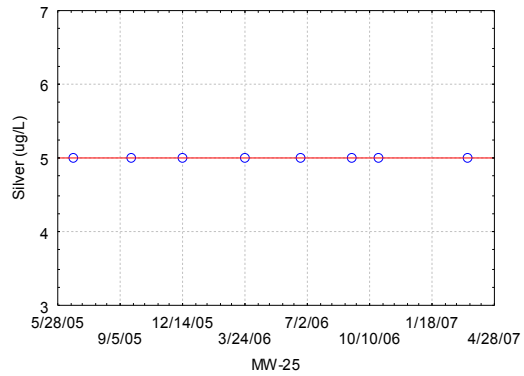
Selenium Regression Analysis

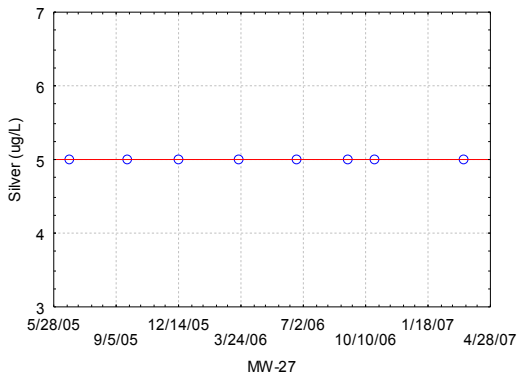


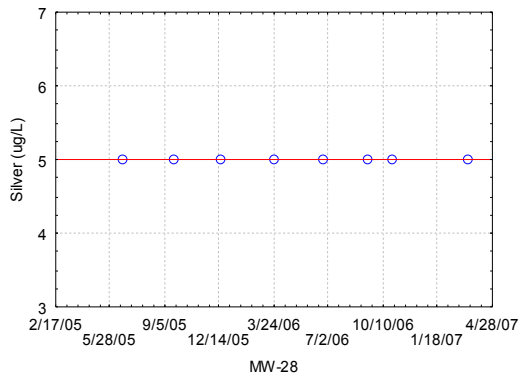
Silver Regression Analysis

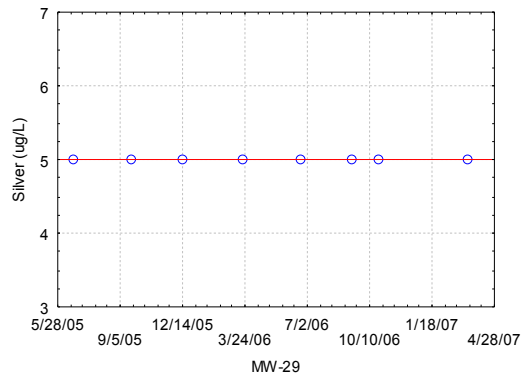


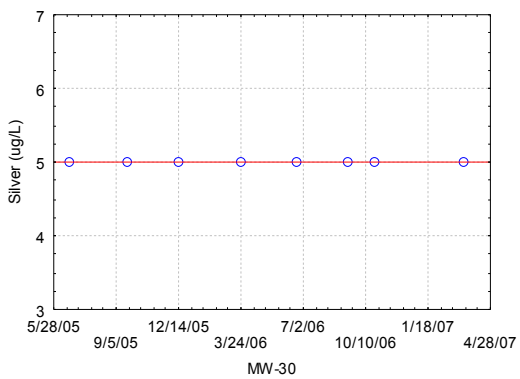


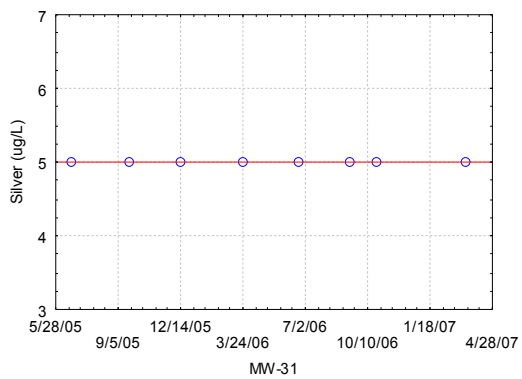


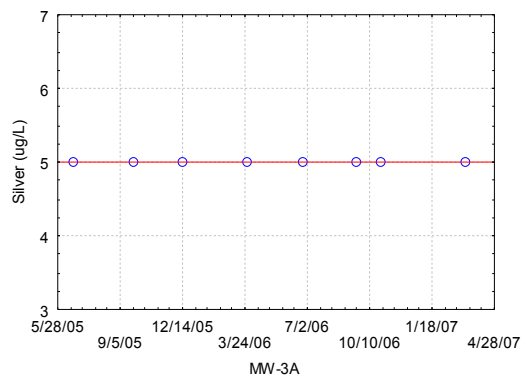




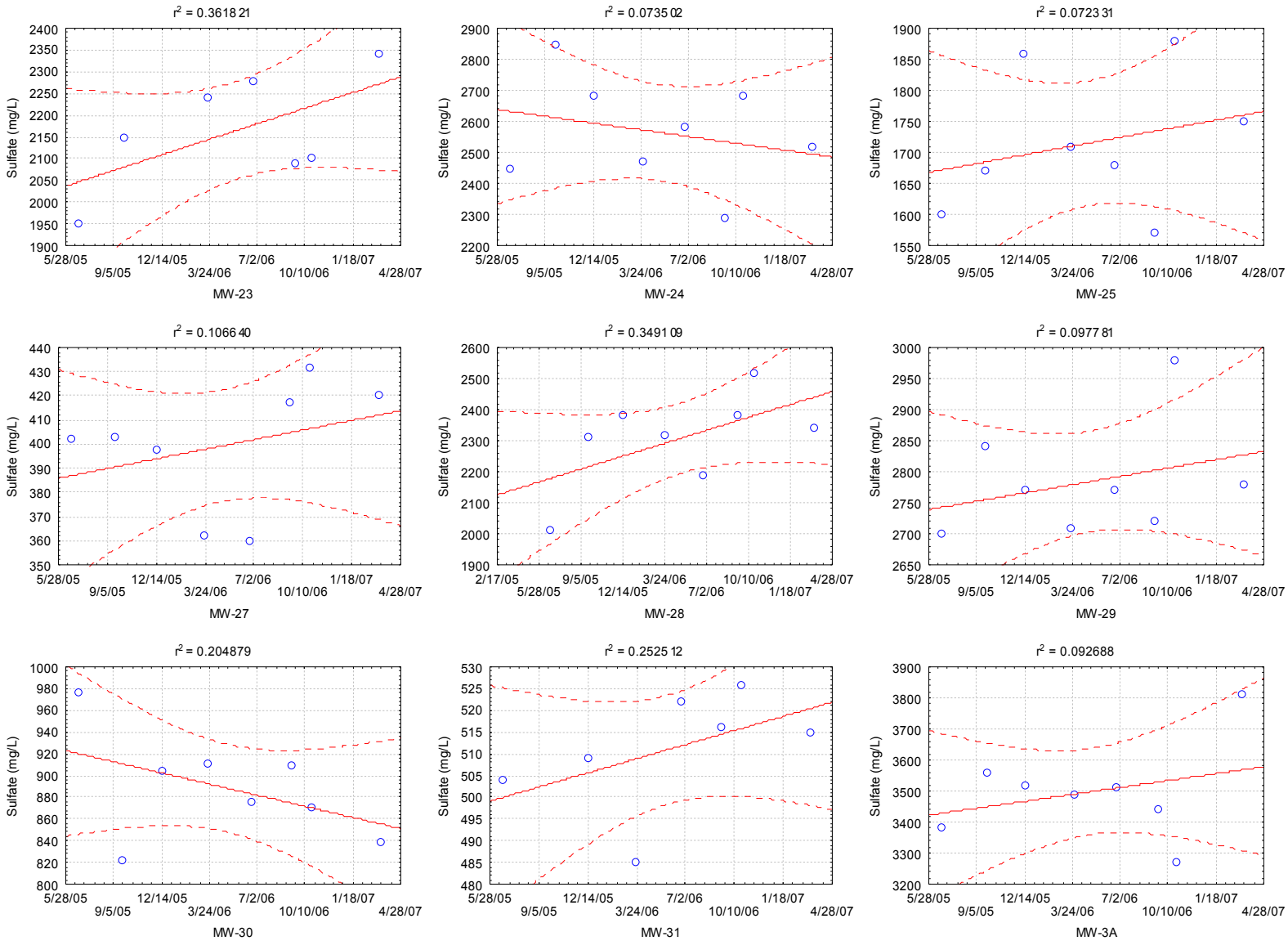




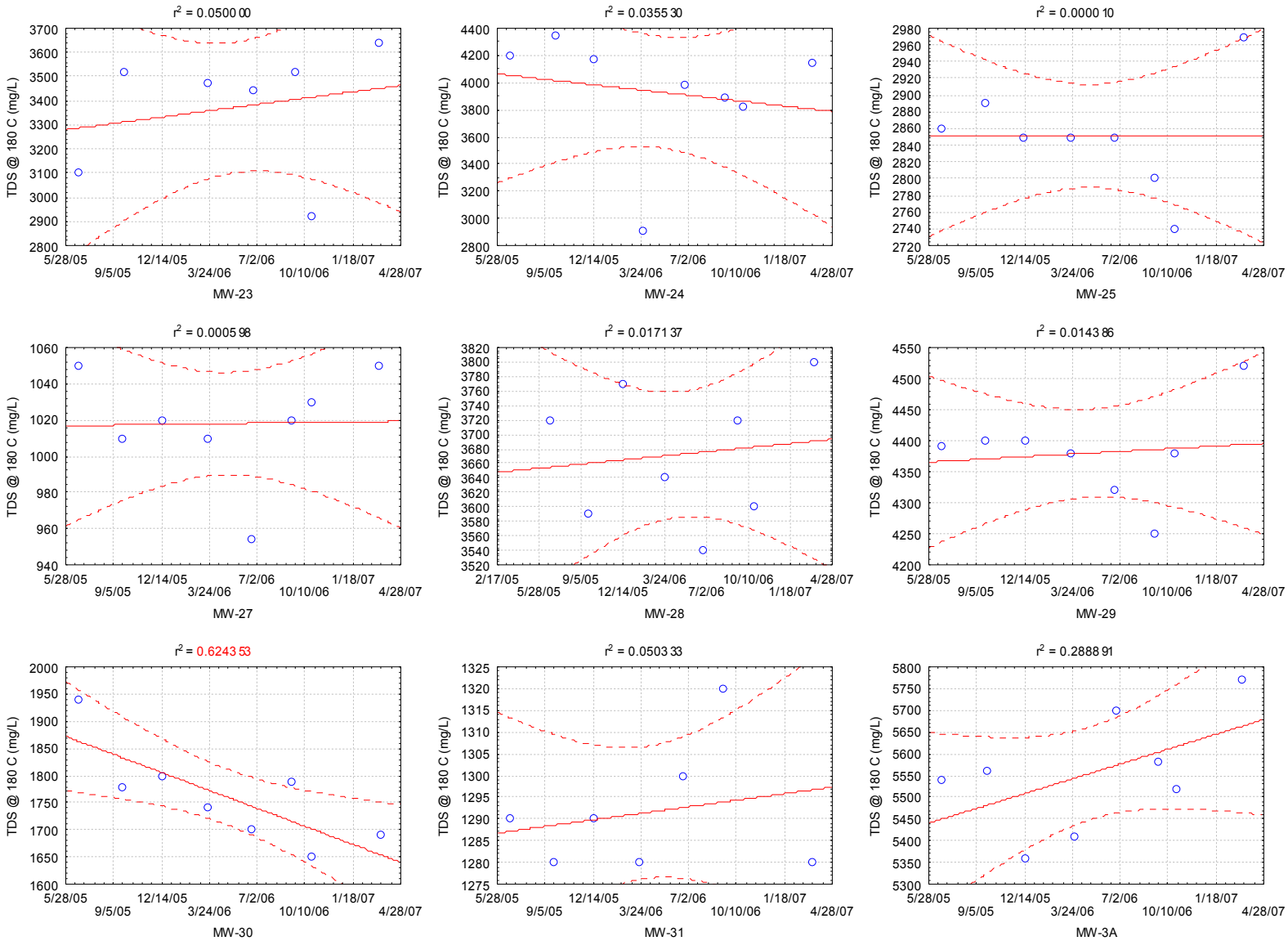




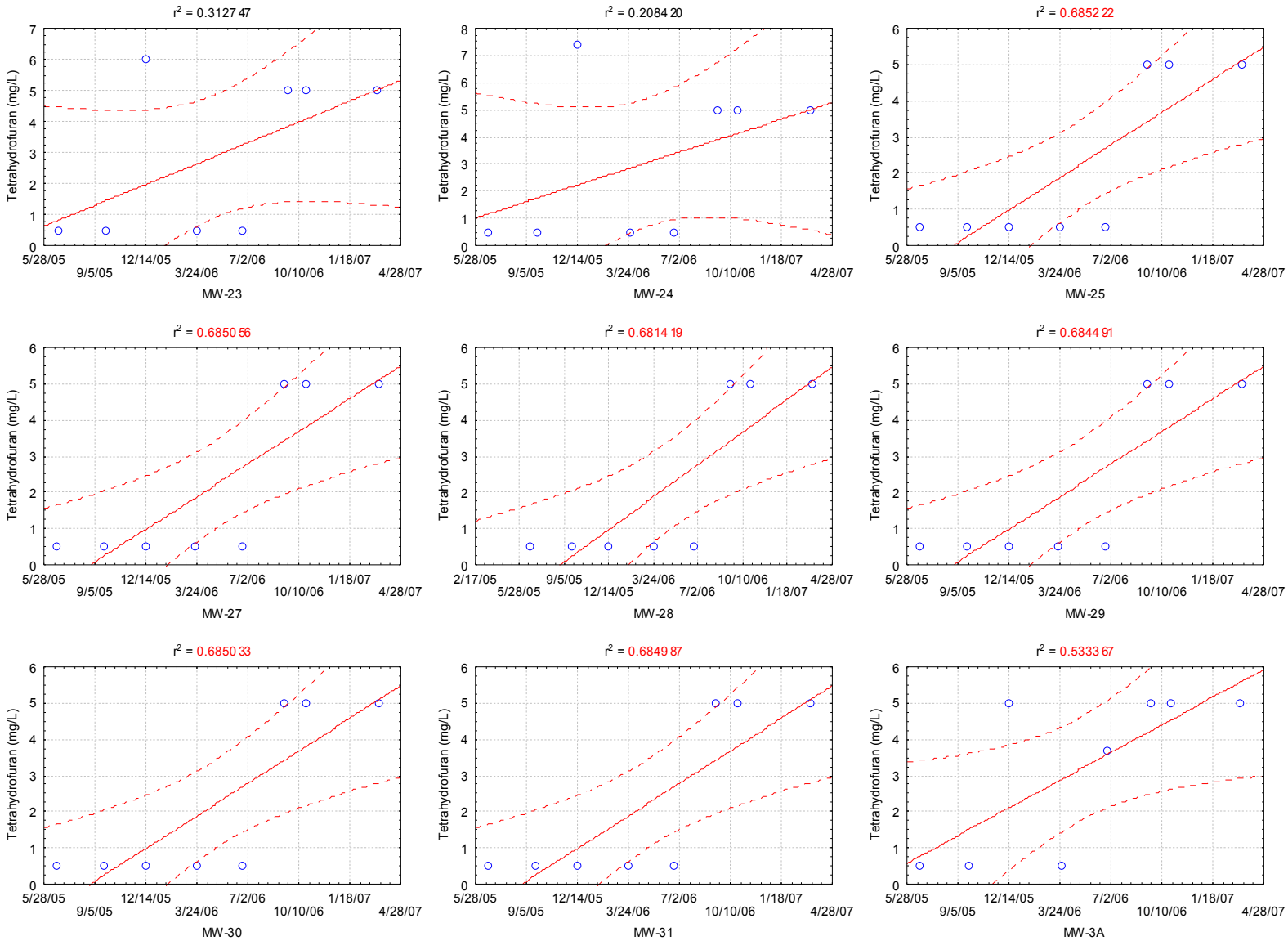
Sulfate Regression Analysis



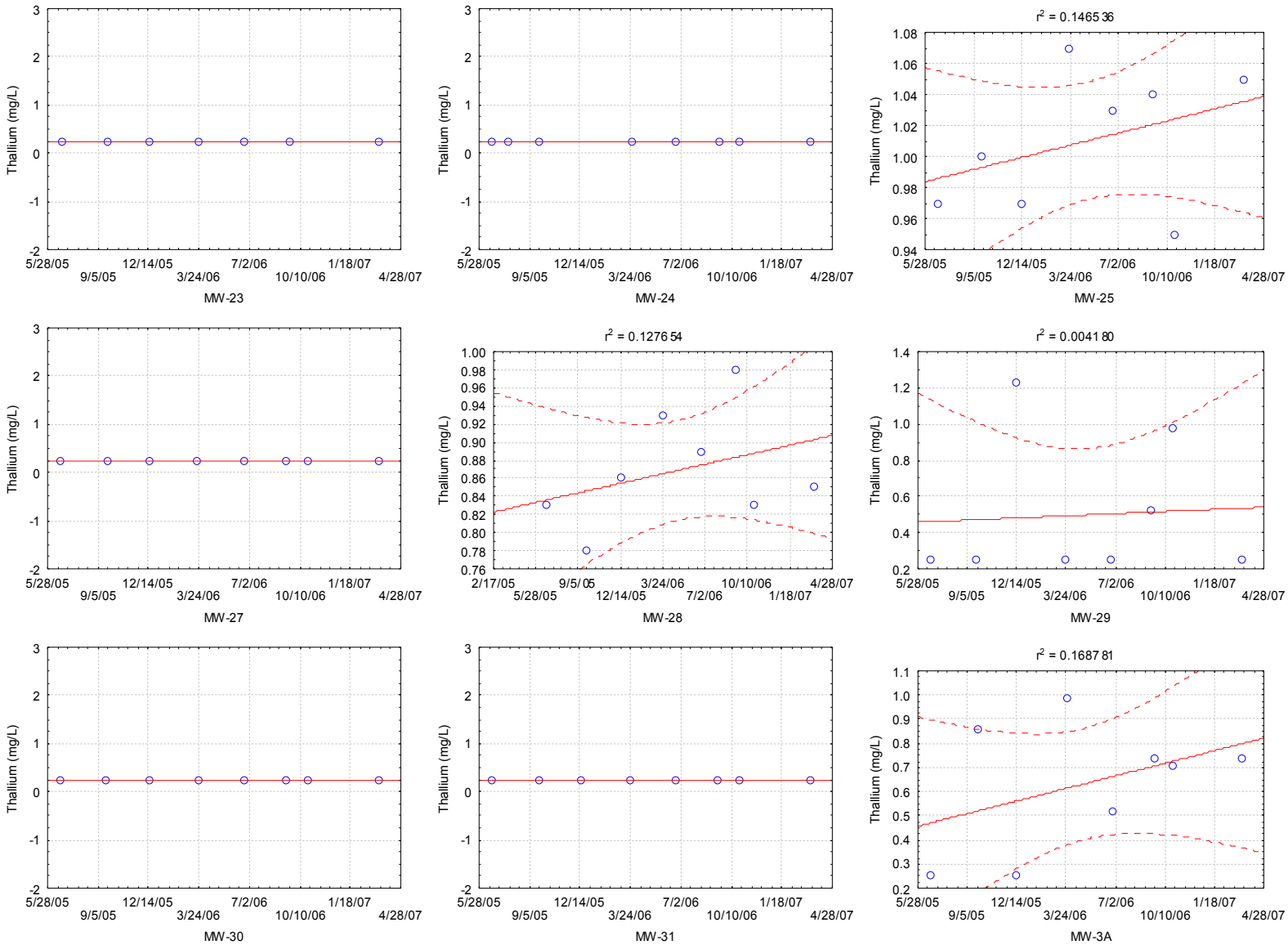
TDS Regression Analysis



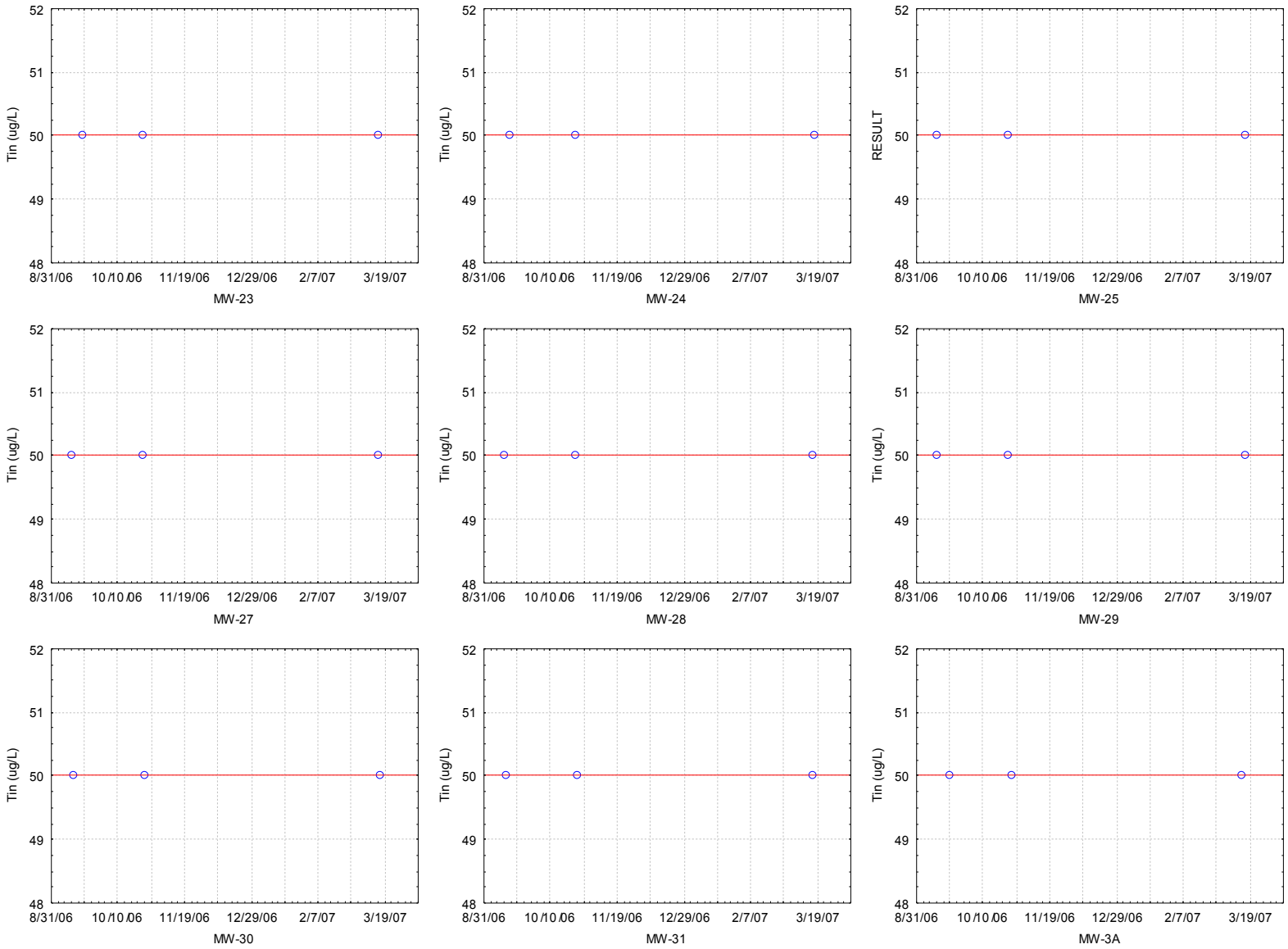
Tetrahydrofuran Regression Analysis



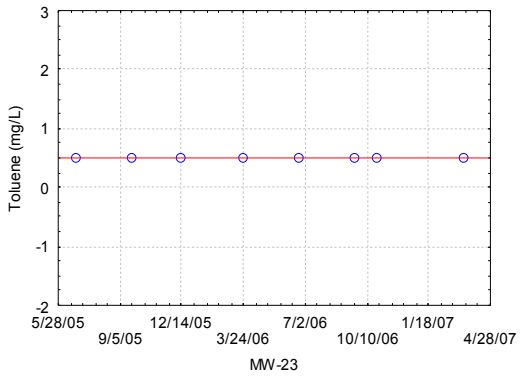
Thalium Regression Analysis



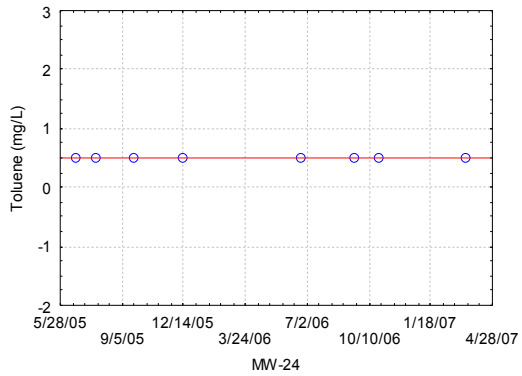
Tin Regression Analysis



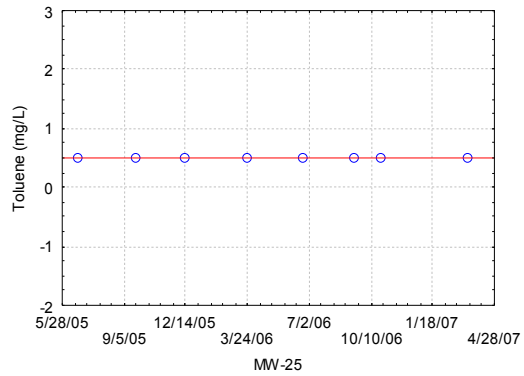
Toluene Regression Analysis



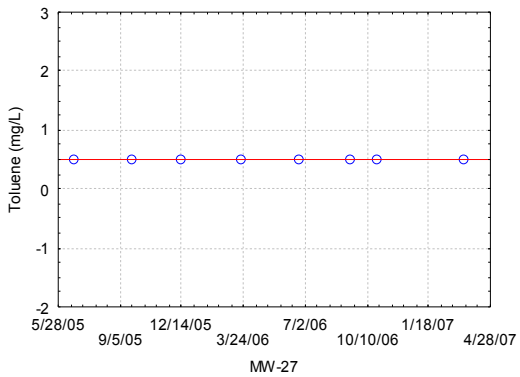
MW-23



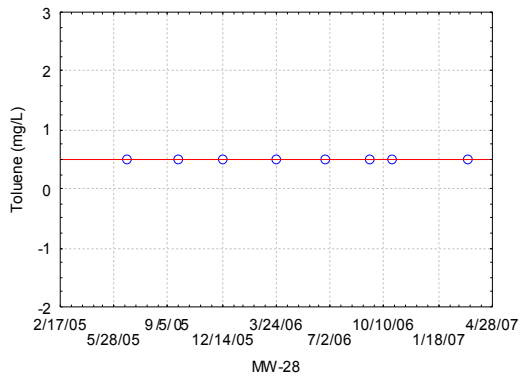
MW-24



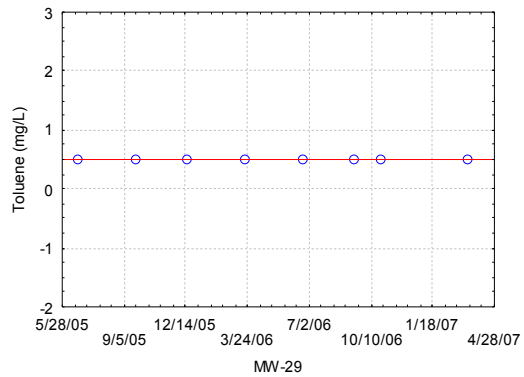
MW-25



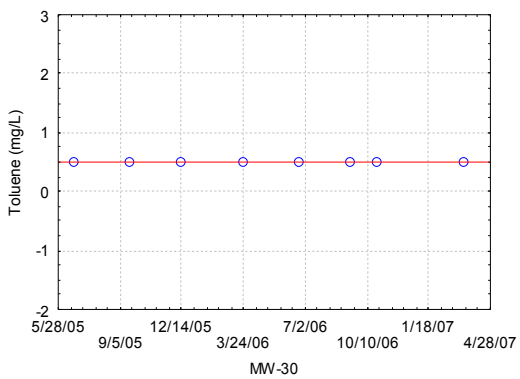
MW-27



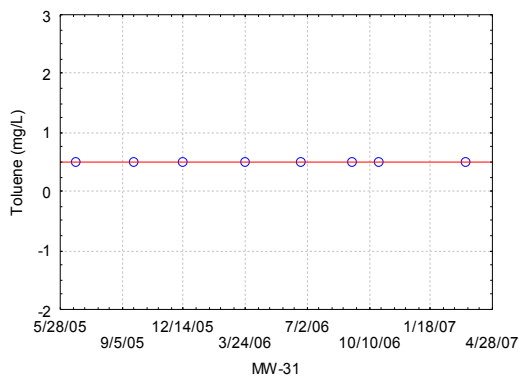
MW-28



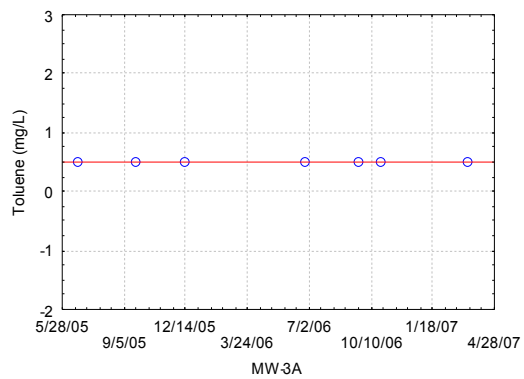
MW-29



MW-30

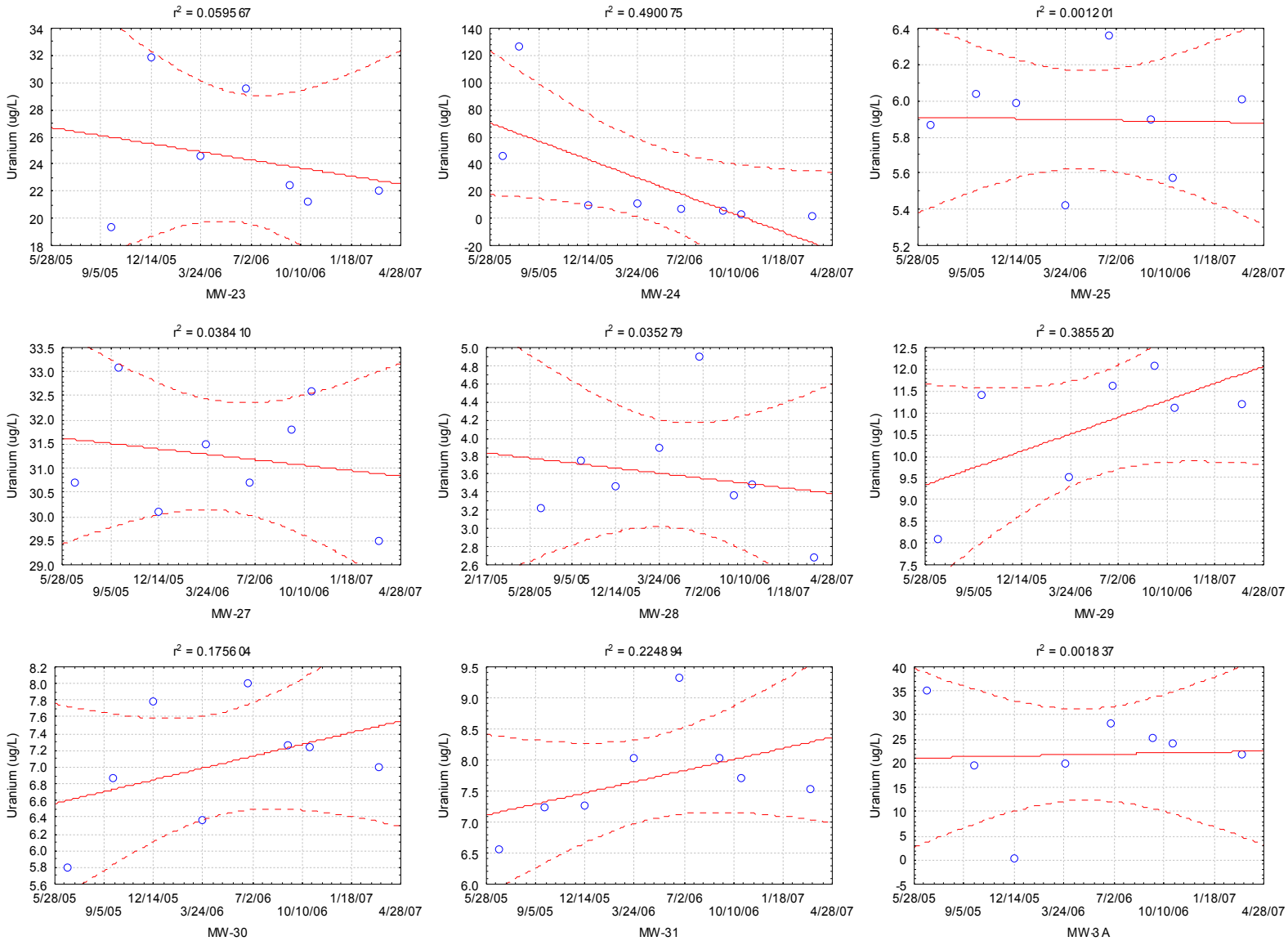


MW-31

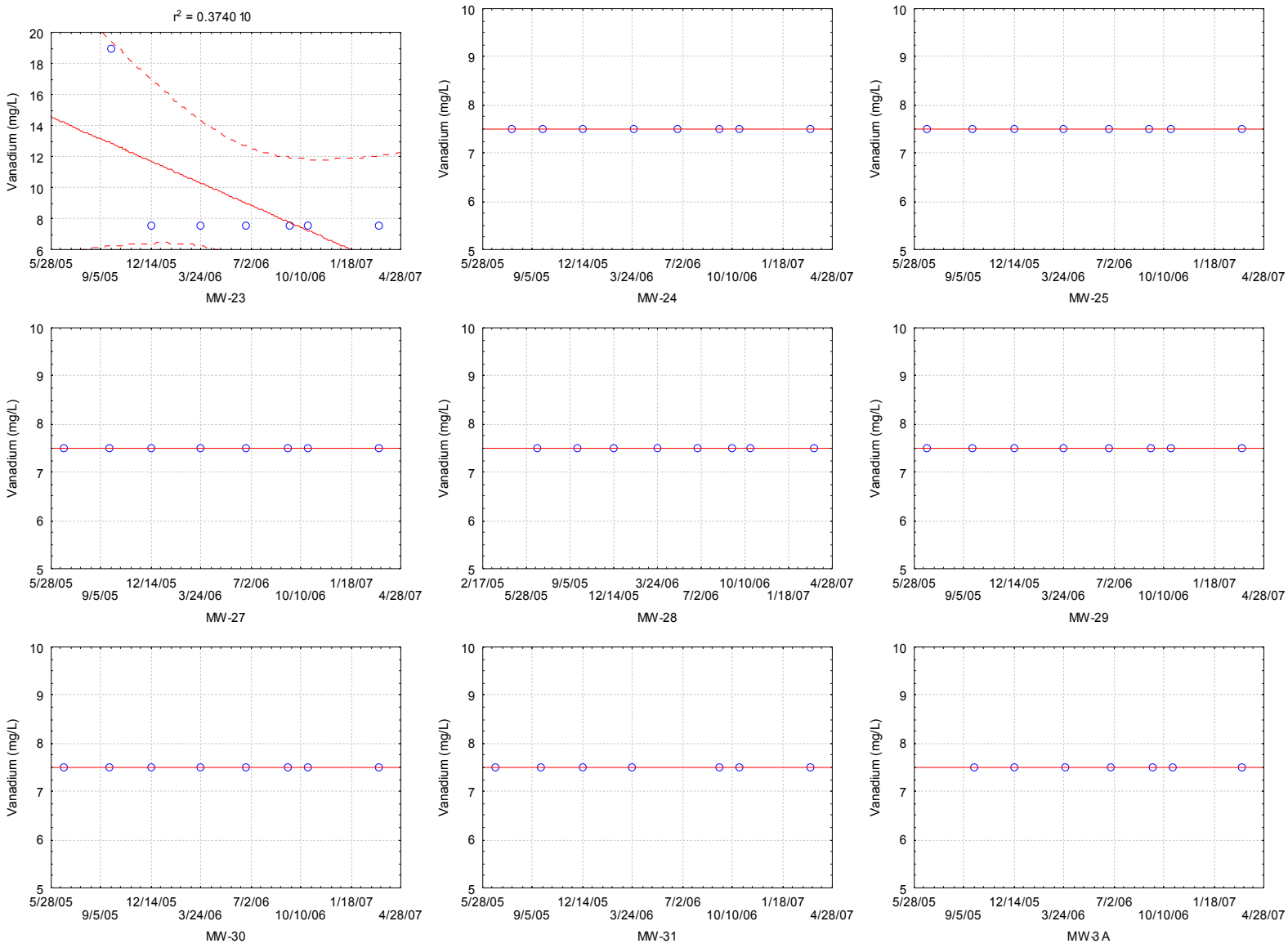


MW-3A

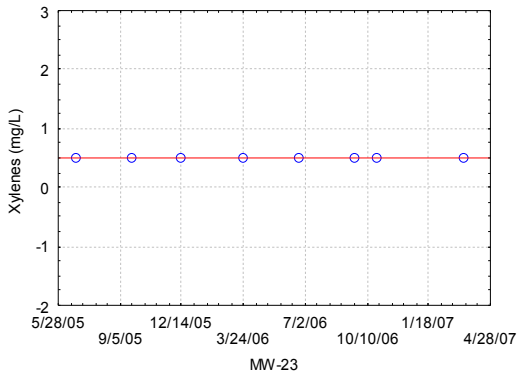
Uranium Regression Analysis

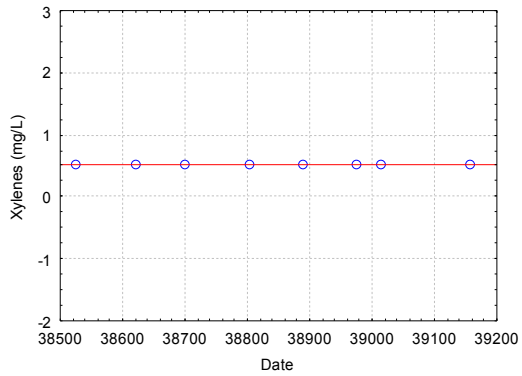


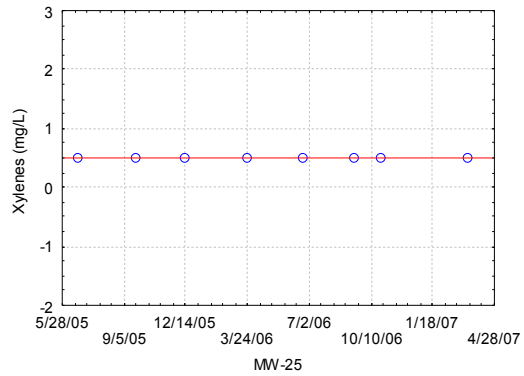
Vanadium Regression Analysis

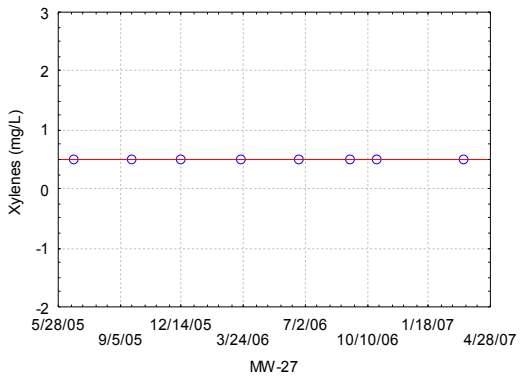


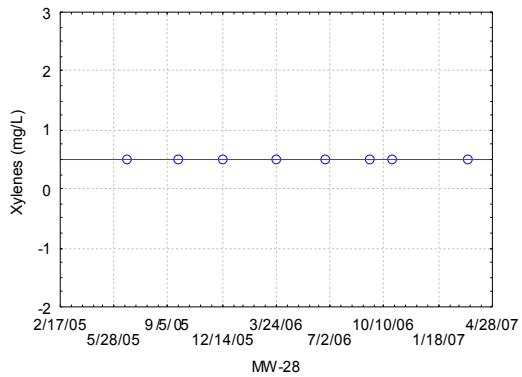
Xylenes Regression Analysis

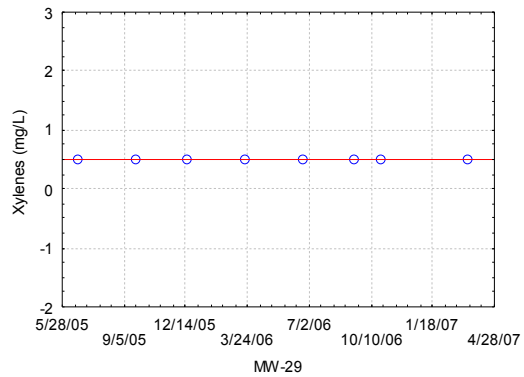


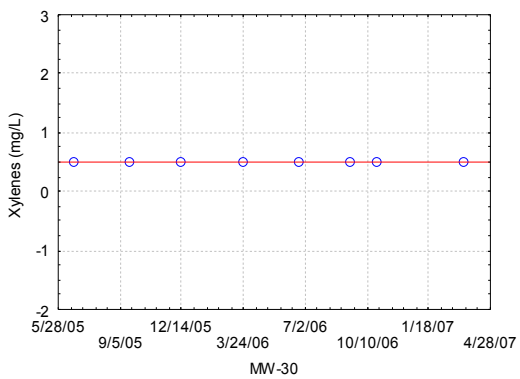


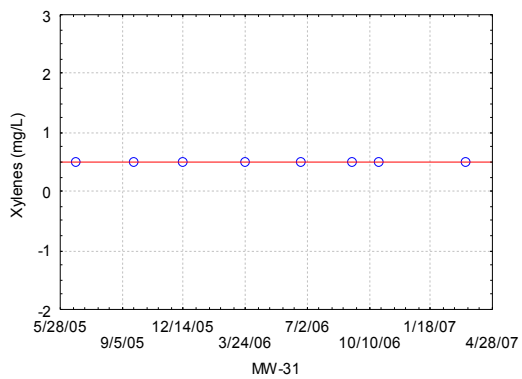


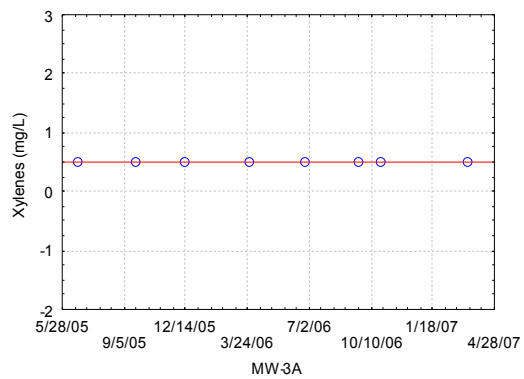




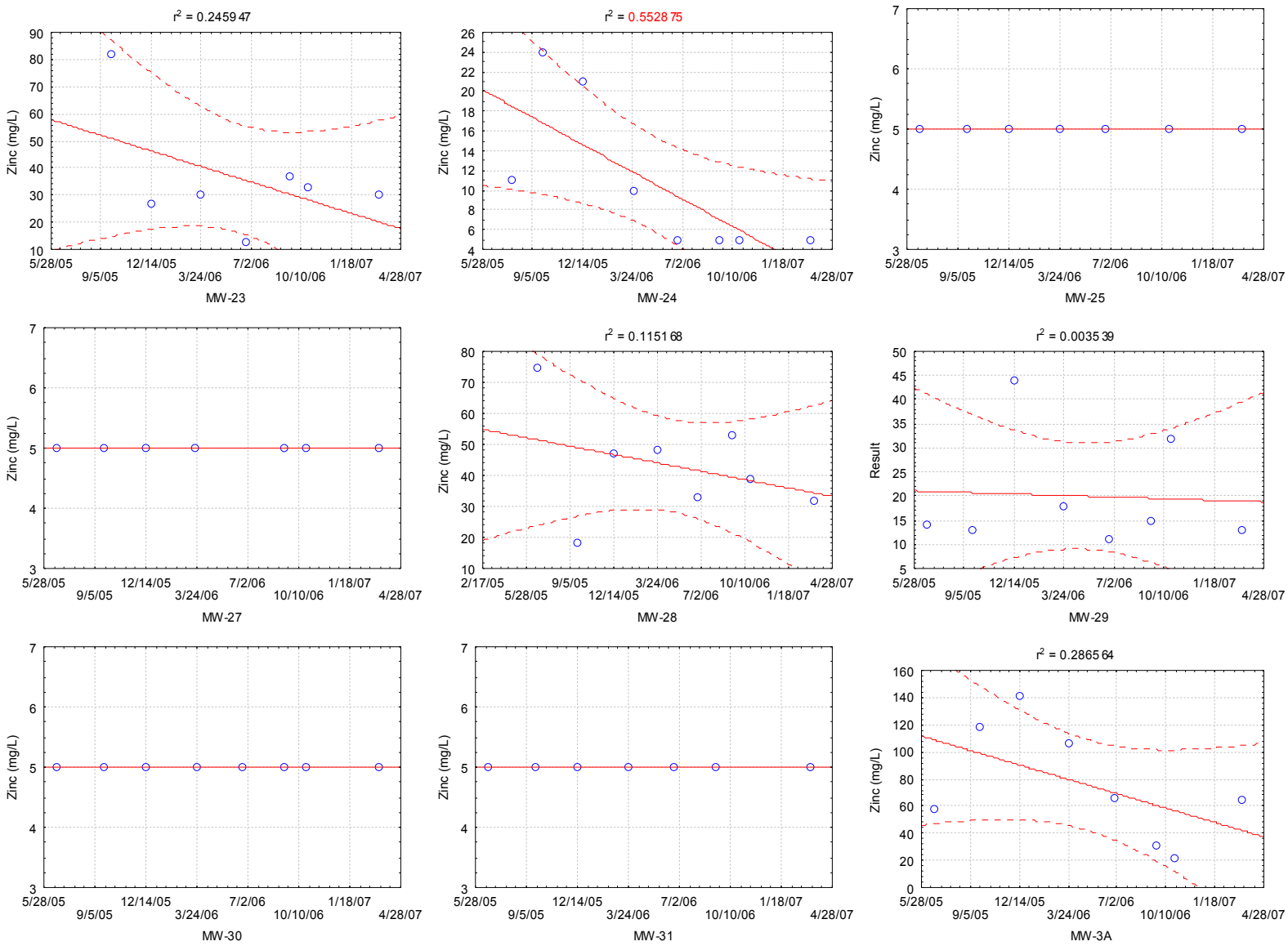




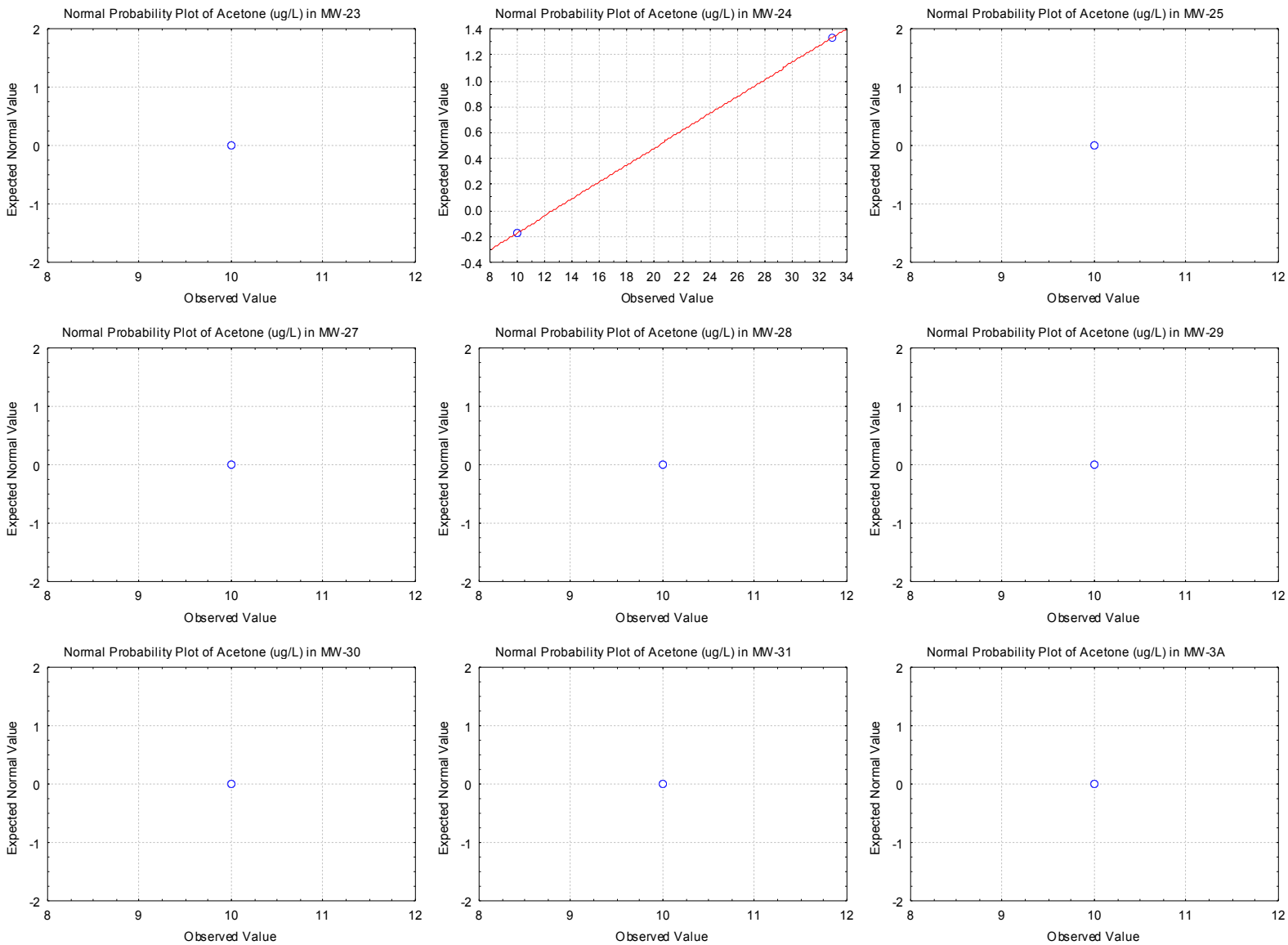




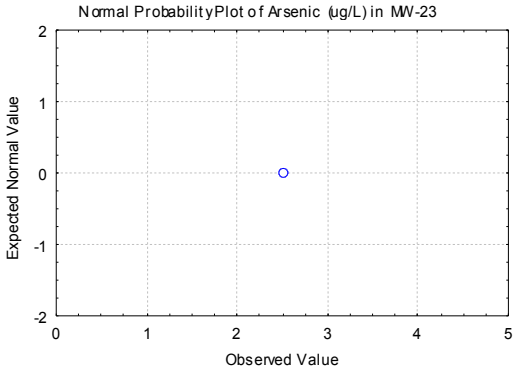
Zinc Regression Analysis

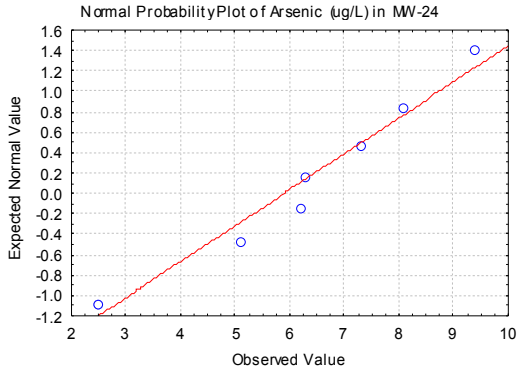


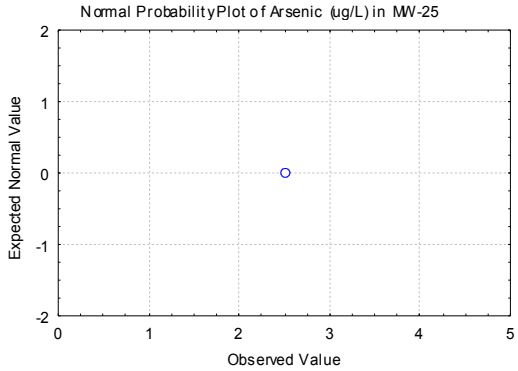
Acetone Probability Plot

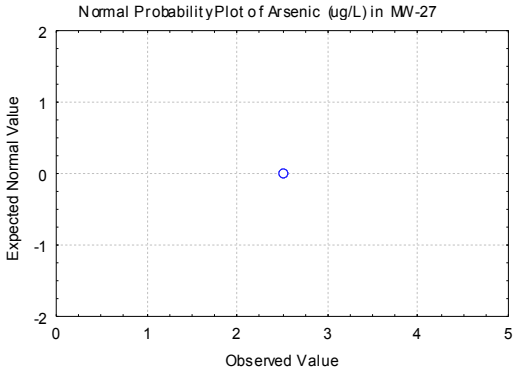


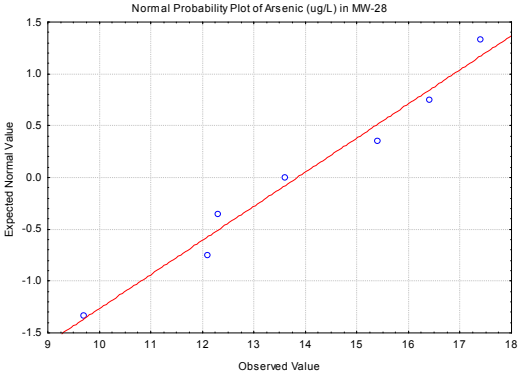
Arsenic Probability Plot

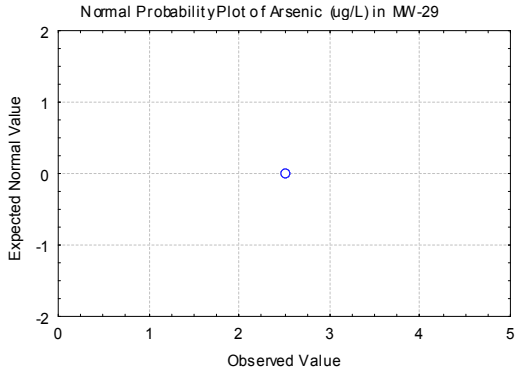


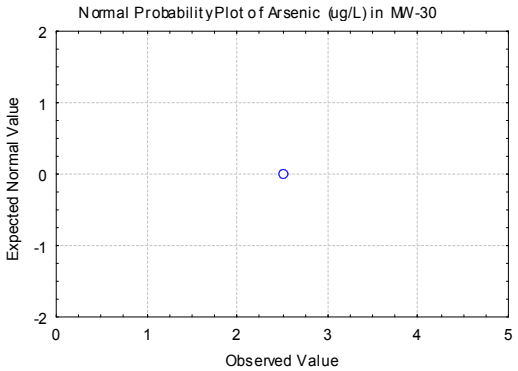


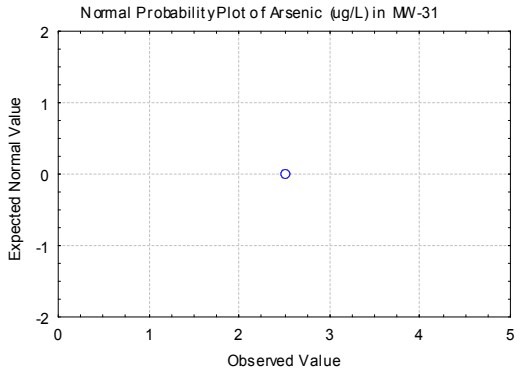


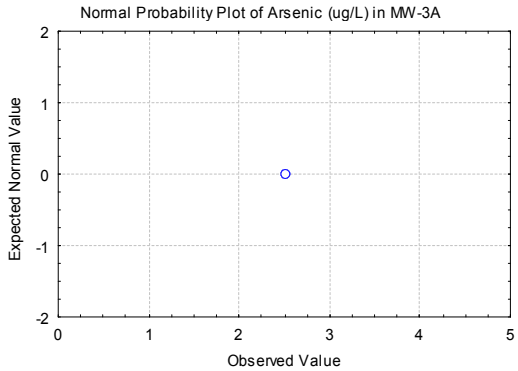




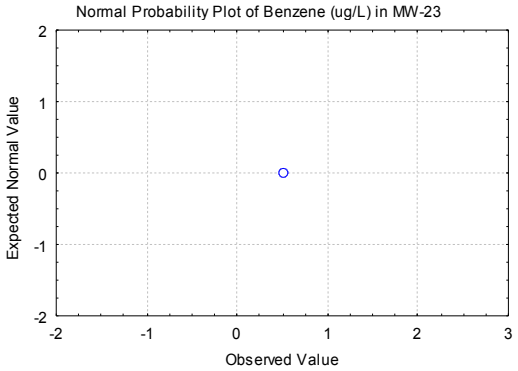


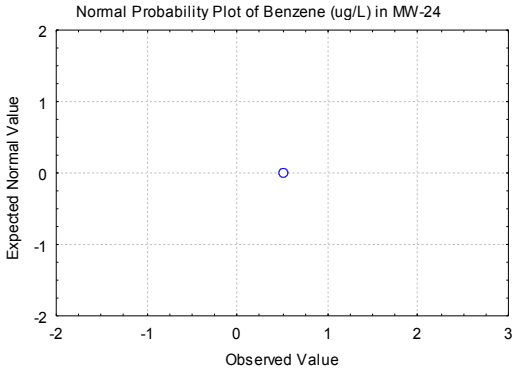


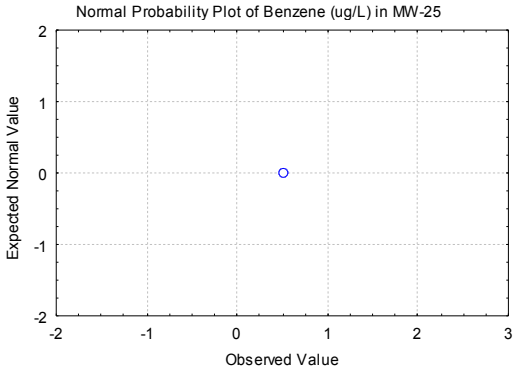


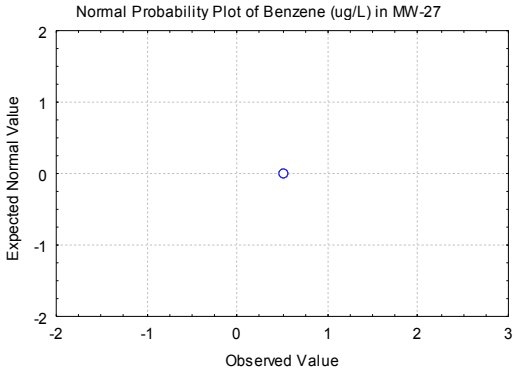


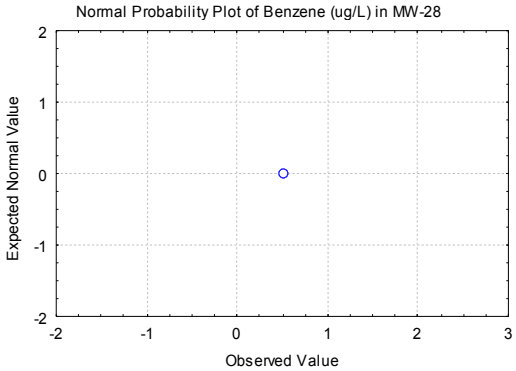
Benzene Probability Plot

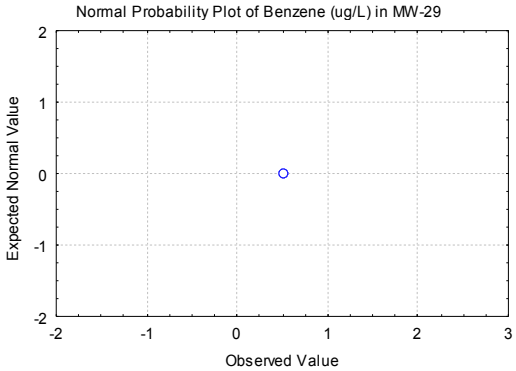


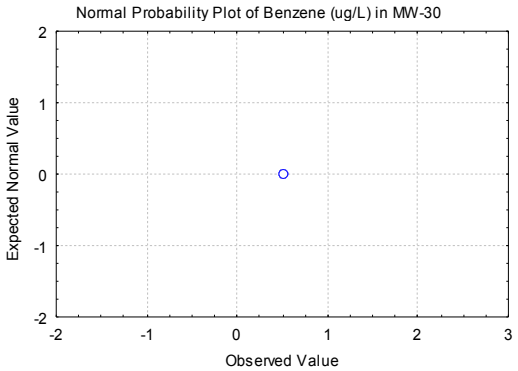


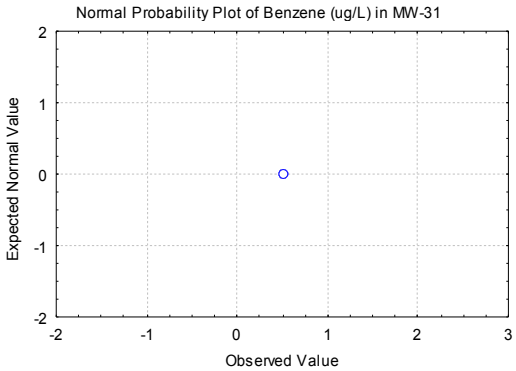


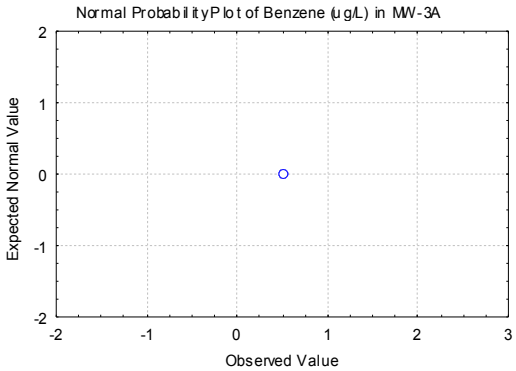




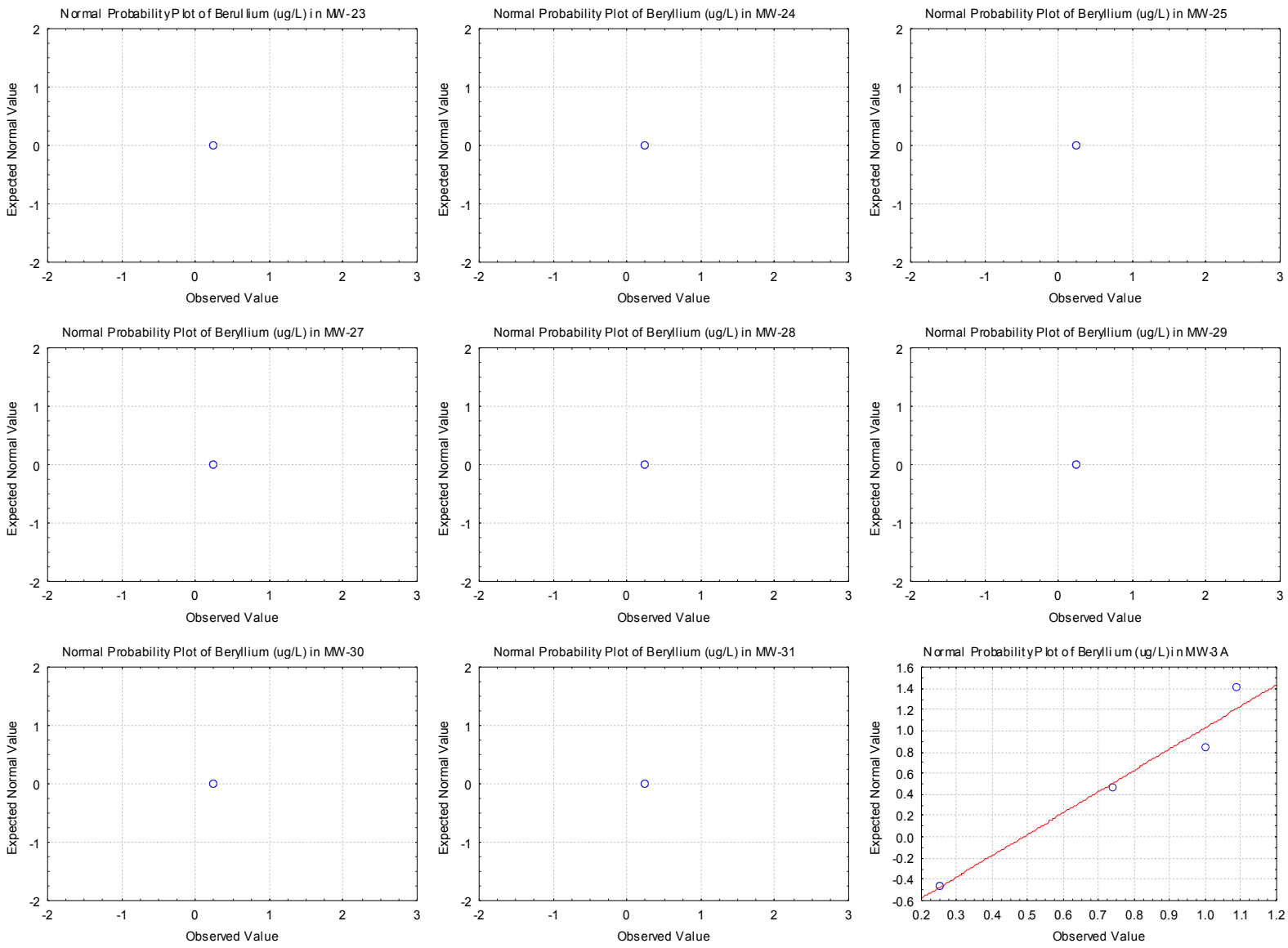




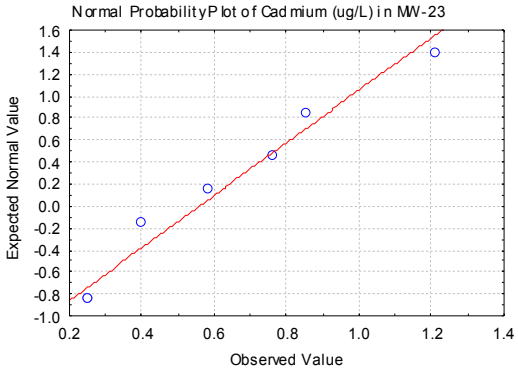


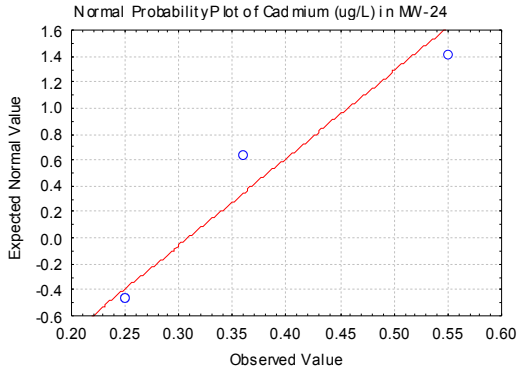


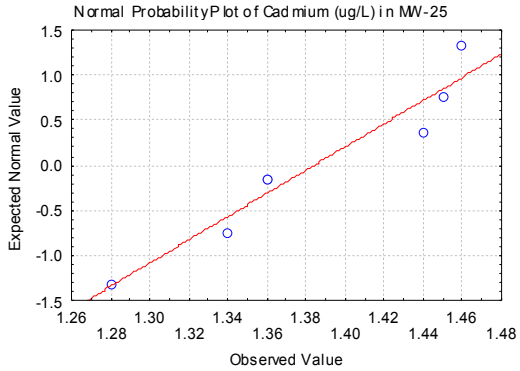
Beryllium Probability Plot

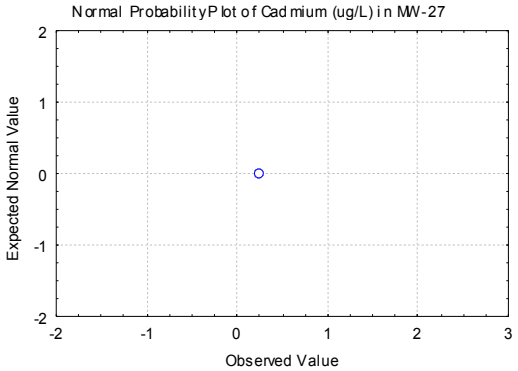


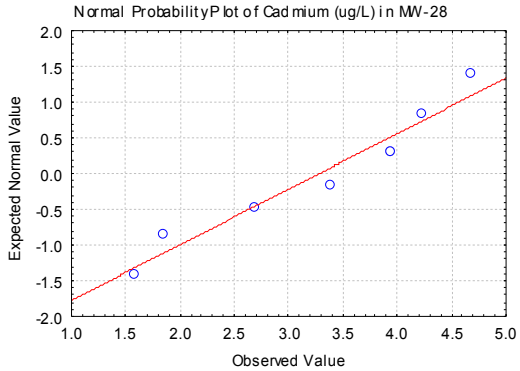
Cadmium Probability Plot

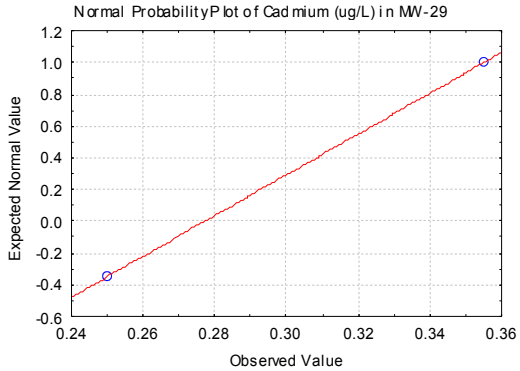


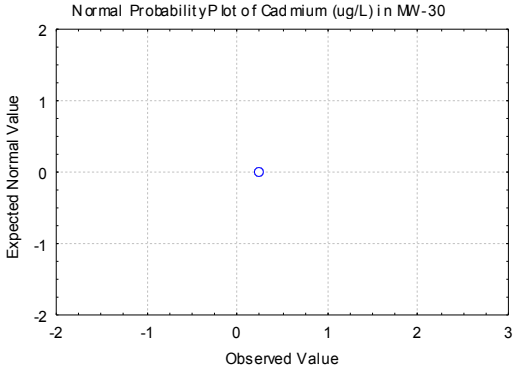


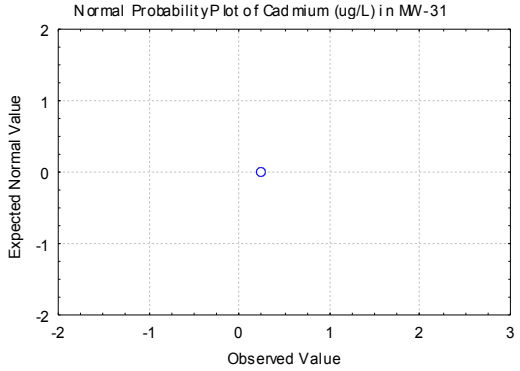


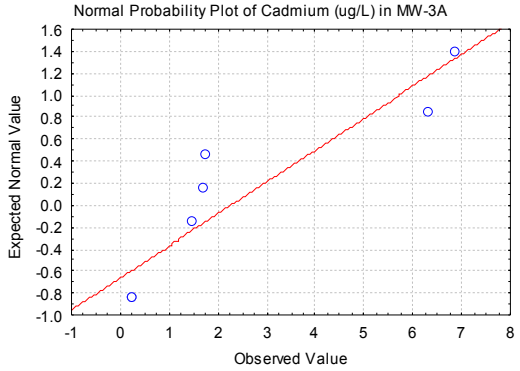




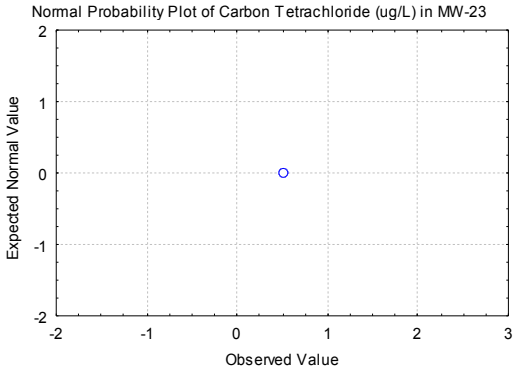


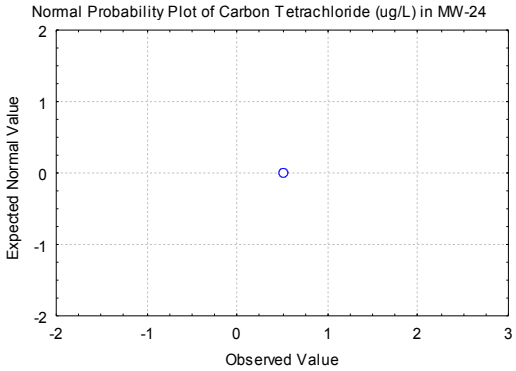


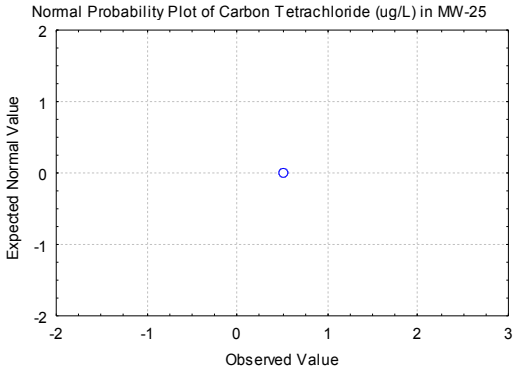


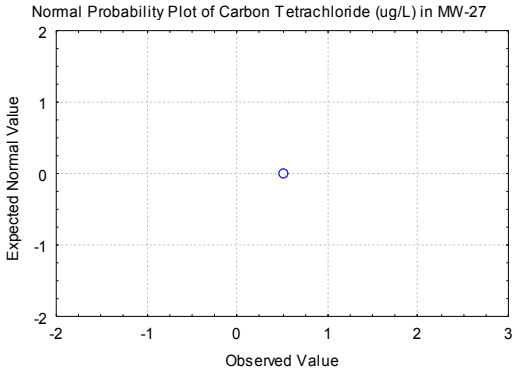


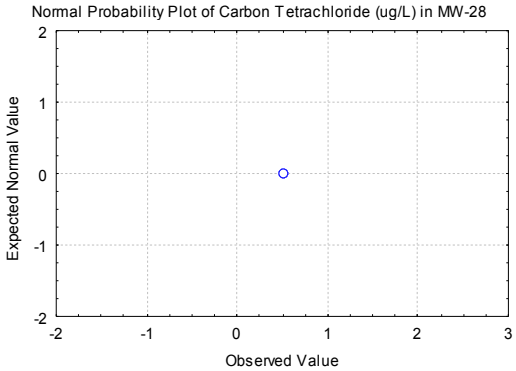
Carbon Tetrachloride Probability Plot

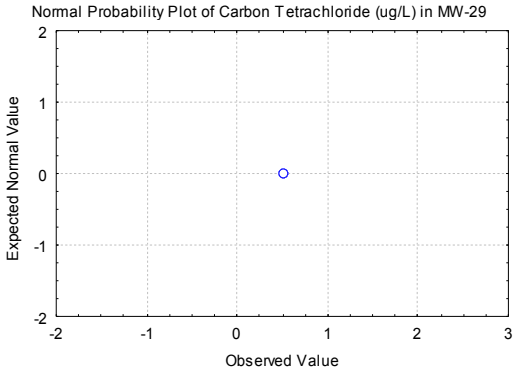


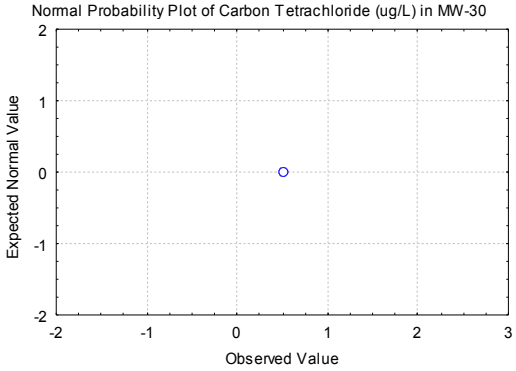


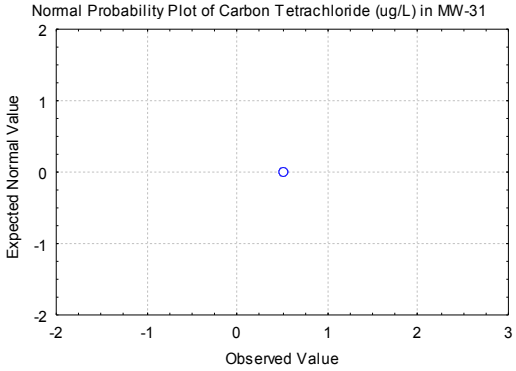


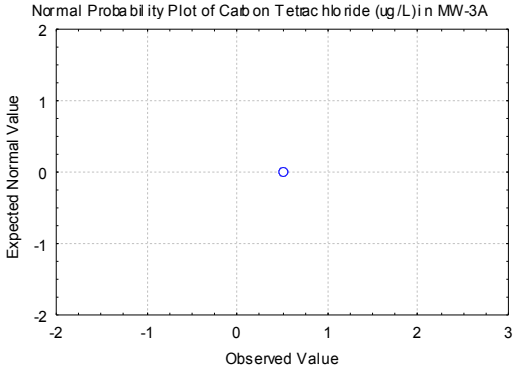




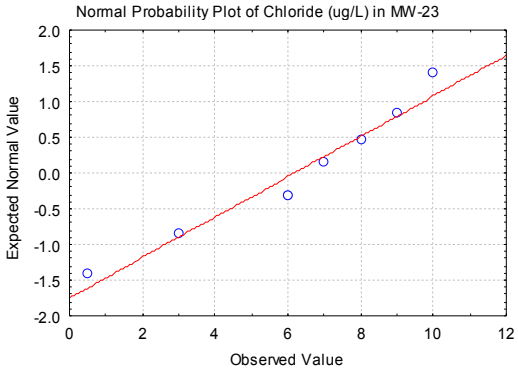


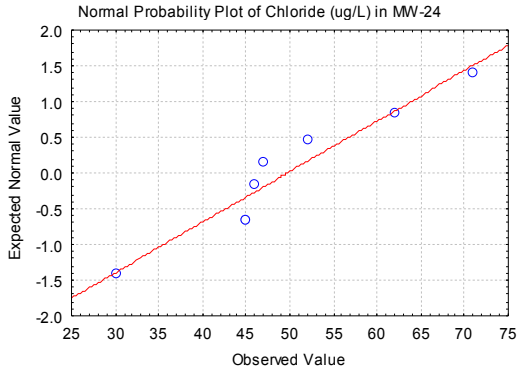


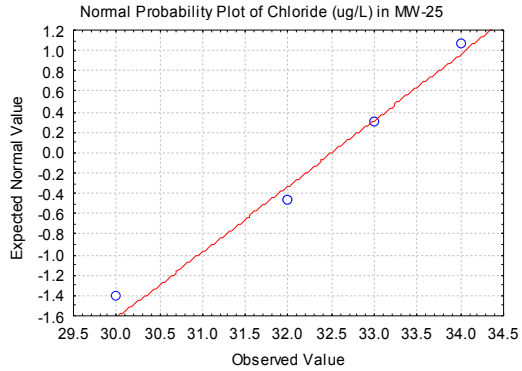


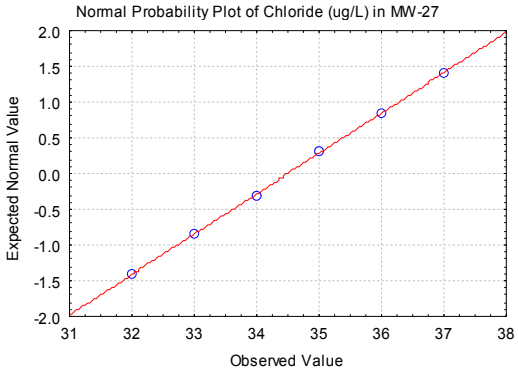


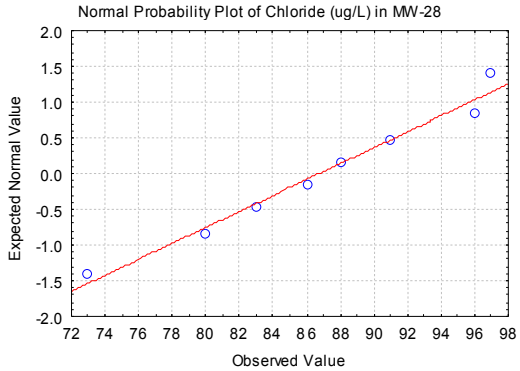
Chloride Probability Plot

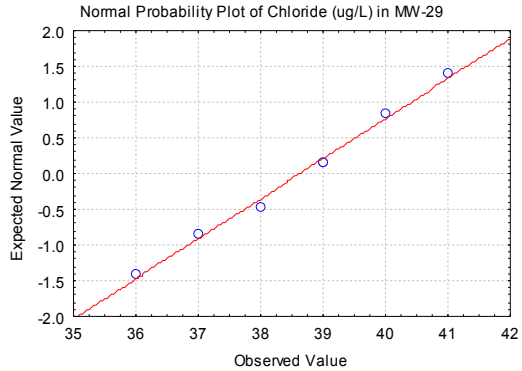


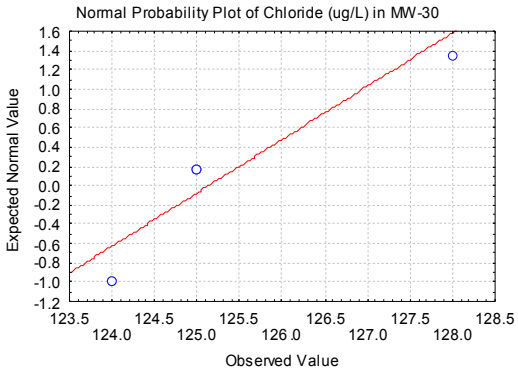


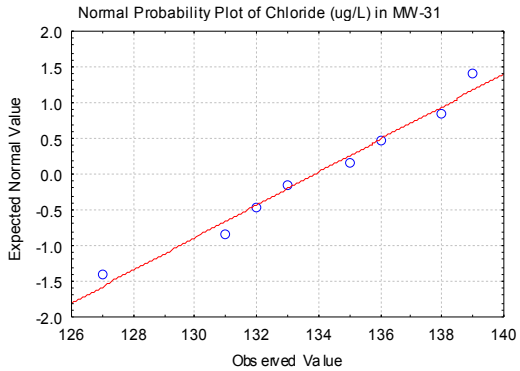


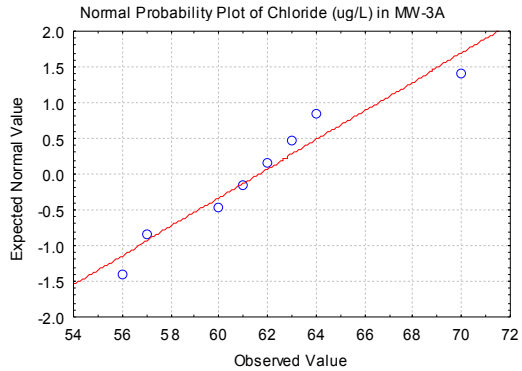




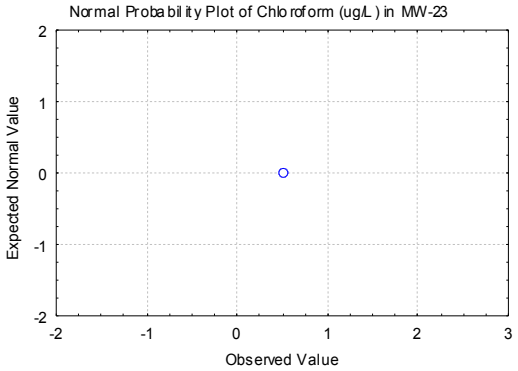


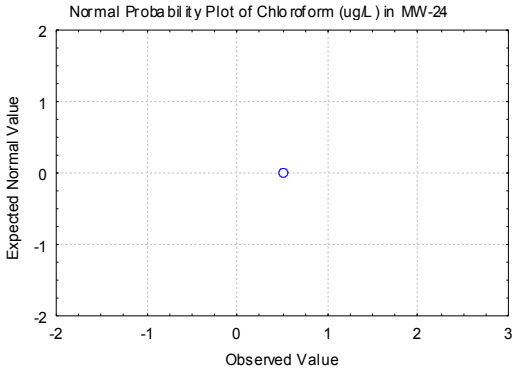


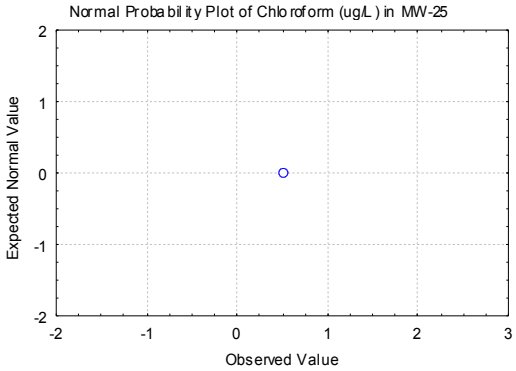


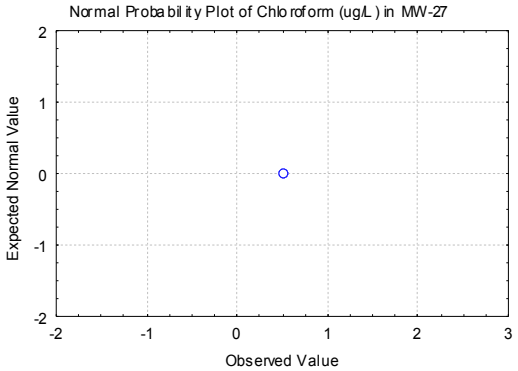


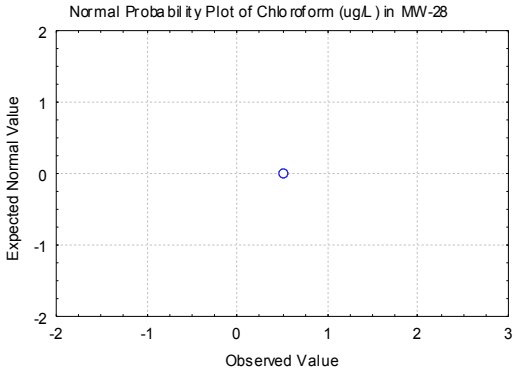
Chloroform Probability Plot

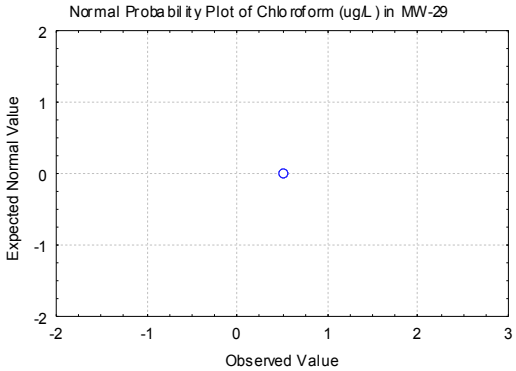


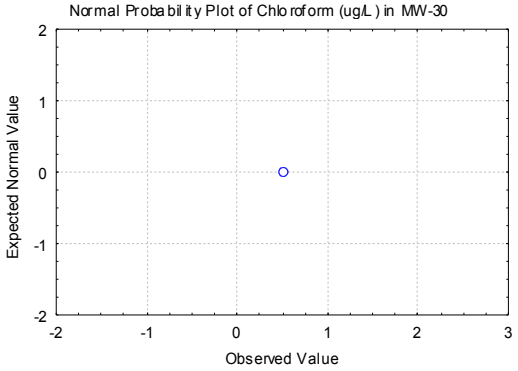


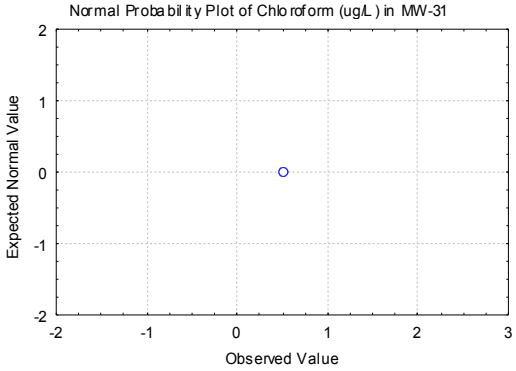


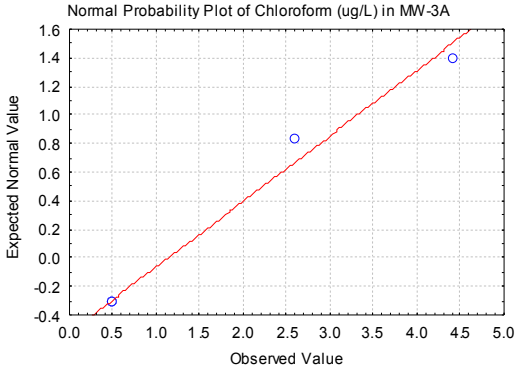




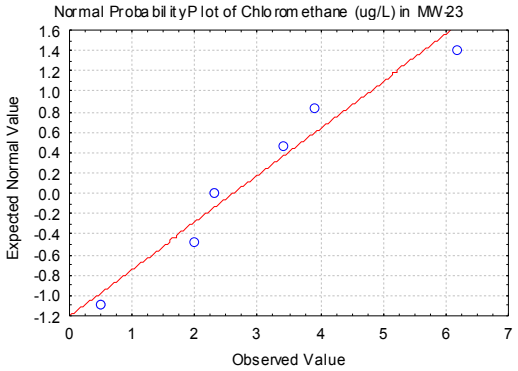


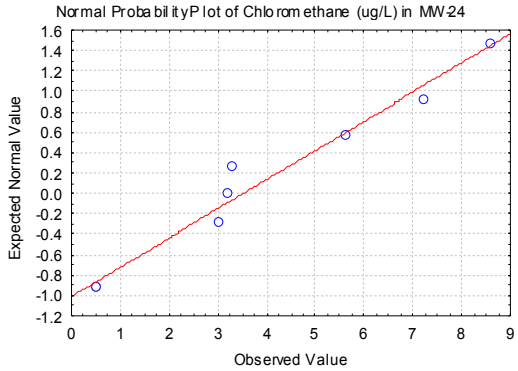


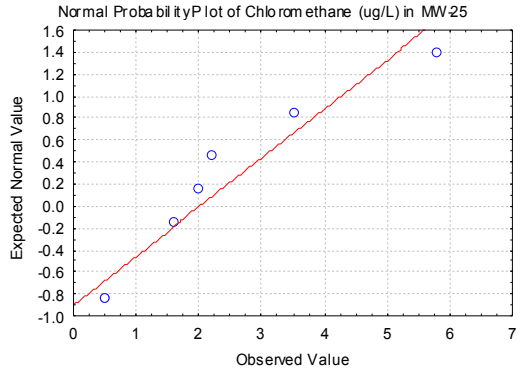


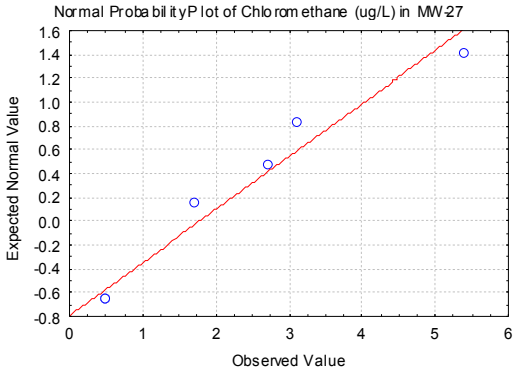


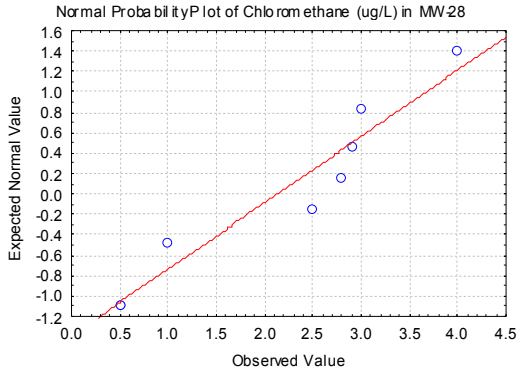
Chloromethane Probability Plot

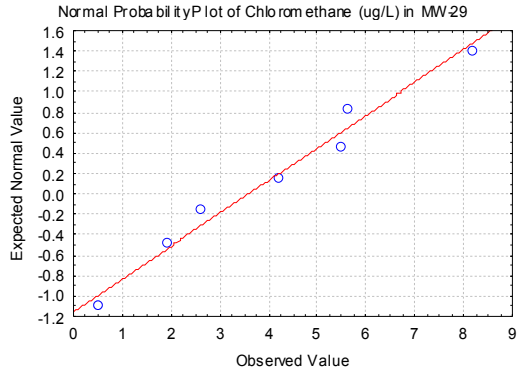


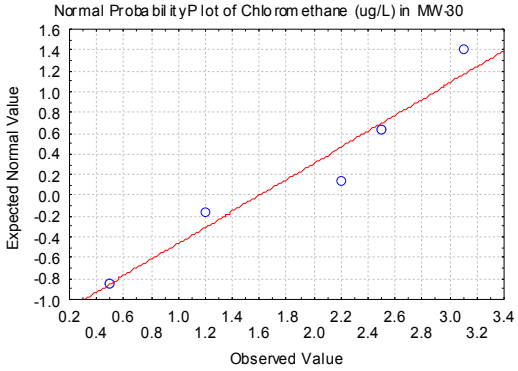


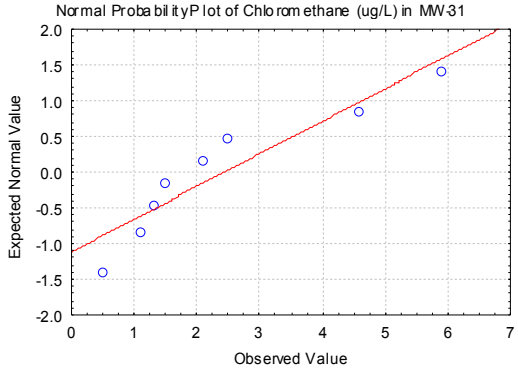


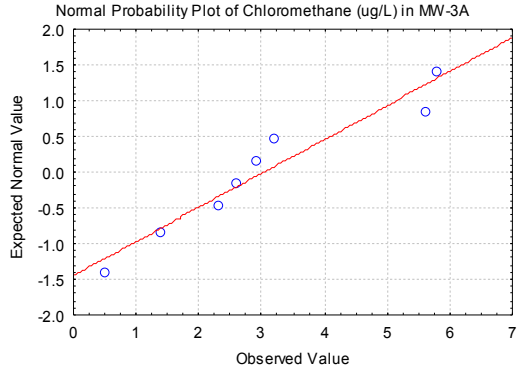




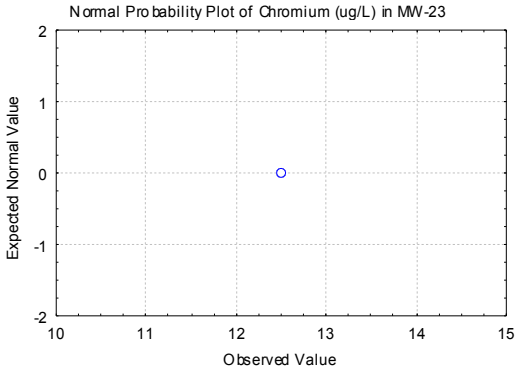


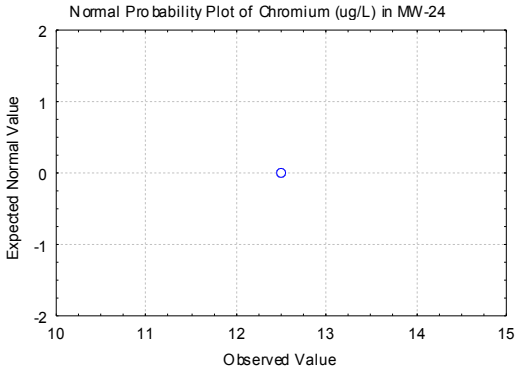


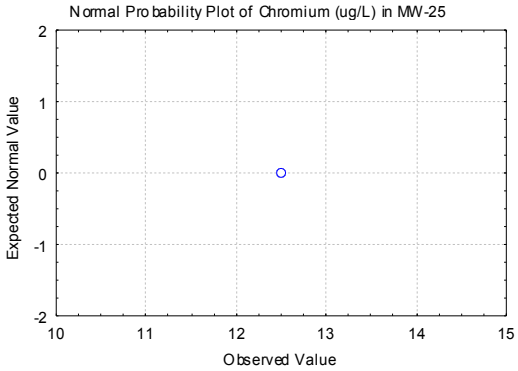


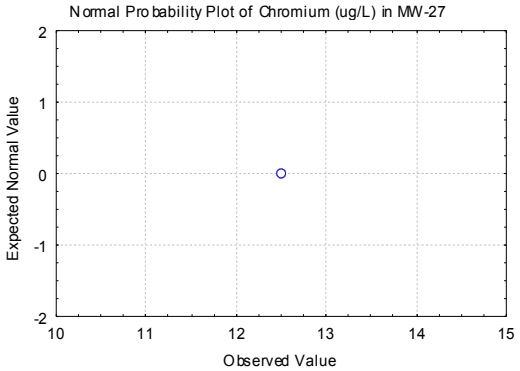


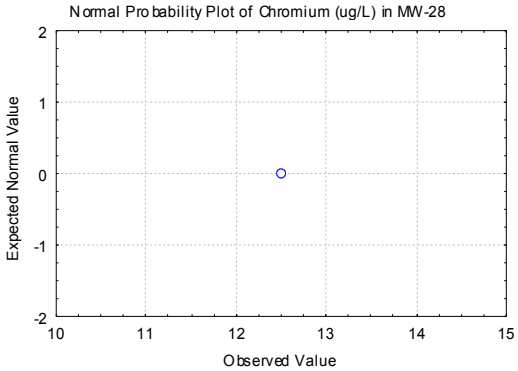
Chromium Probability Plot

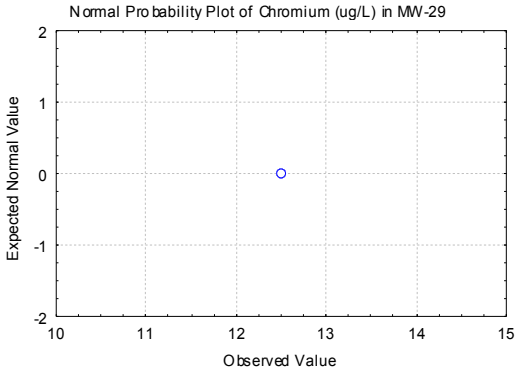


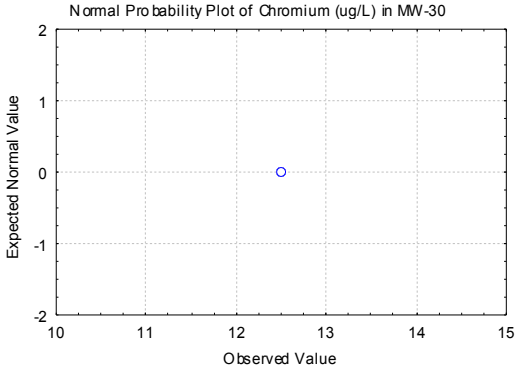


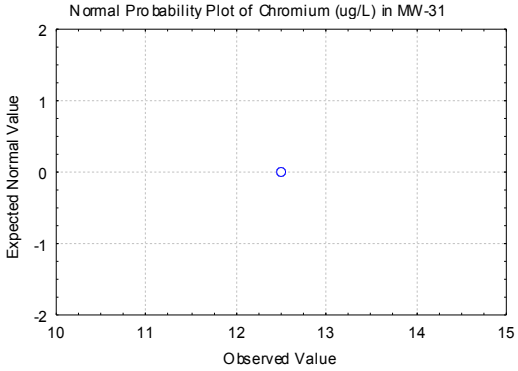


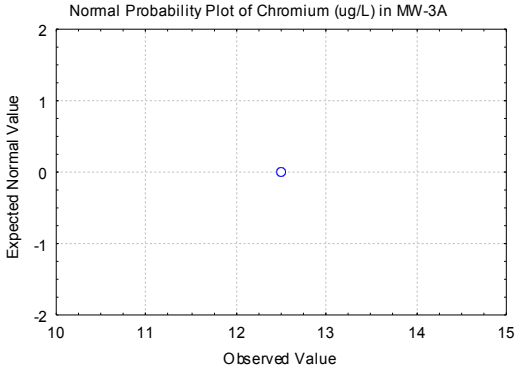




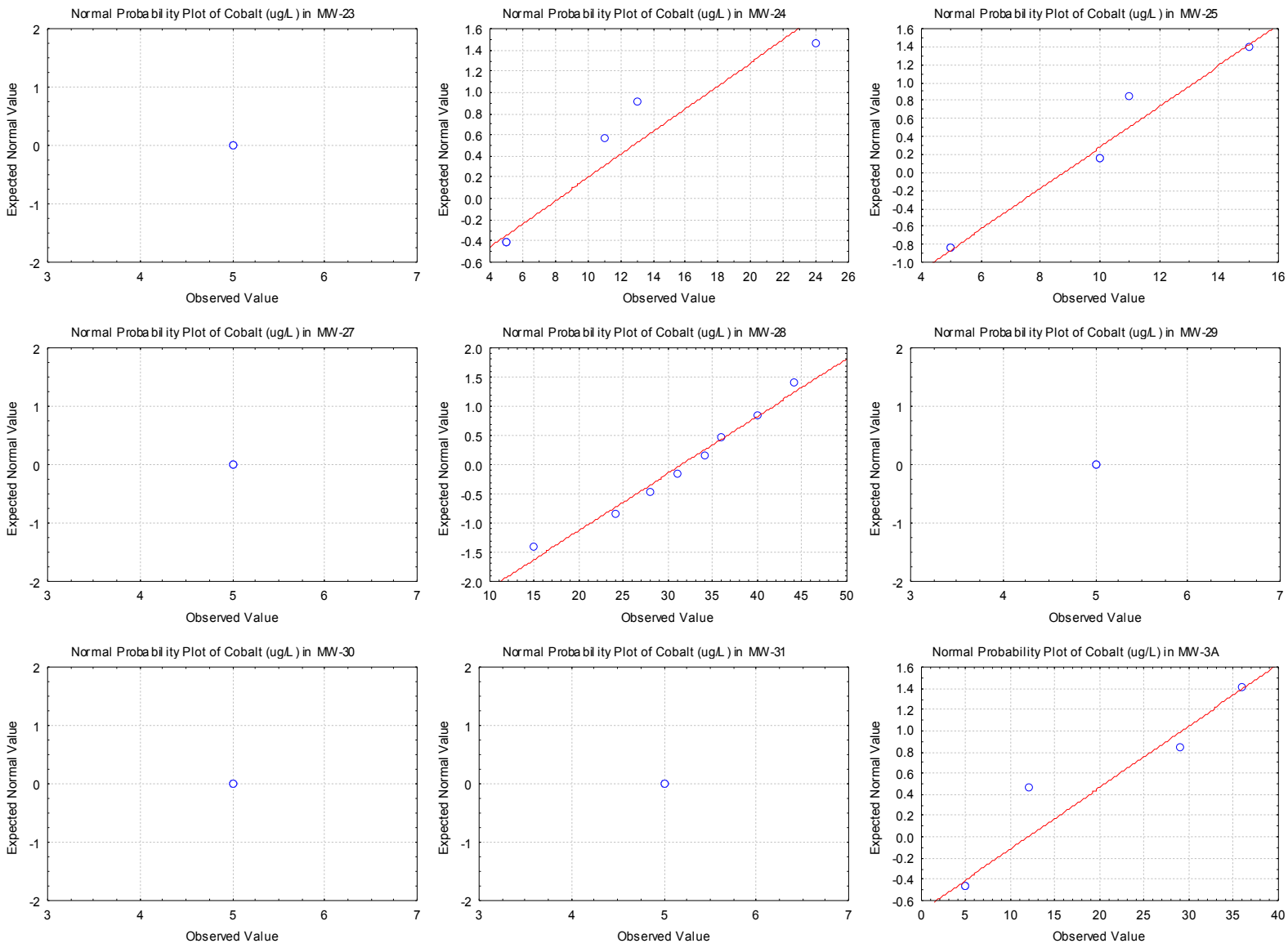




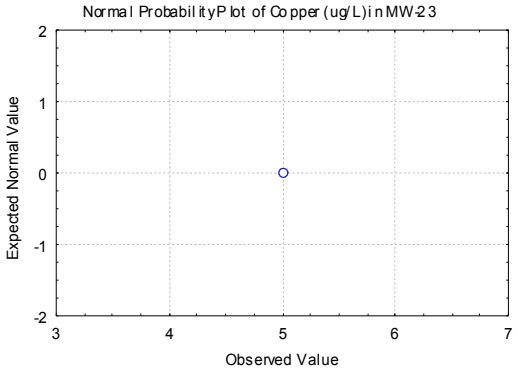


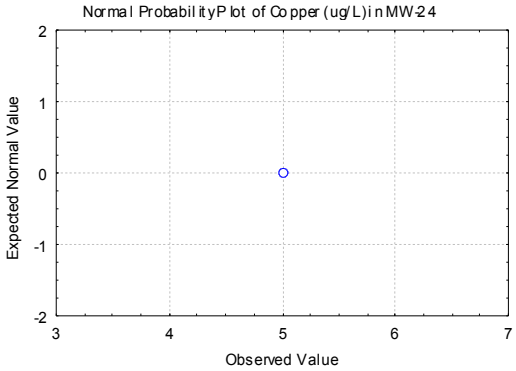


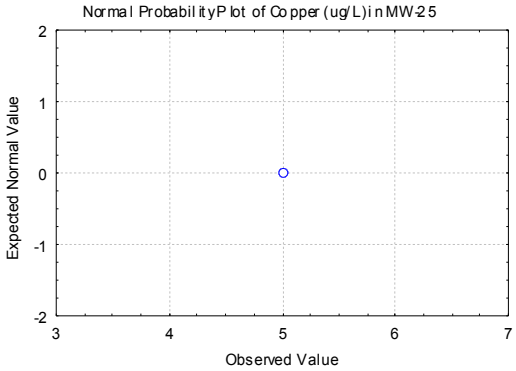
Cobalt Probability Plot

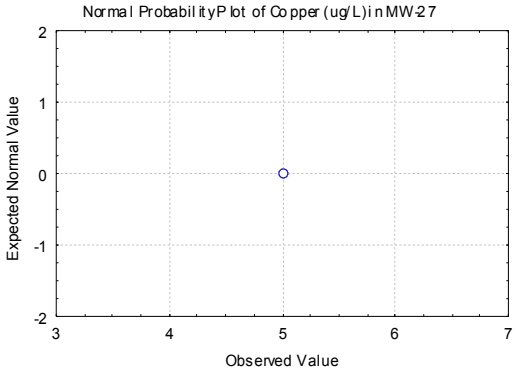


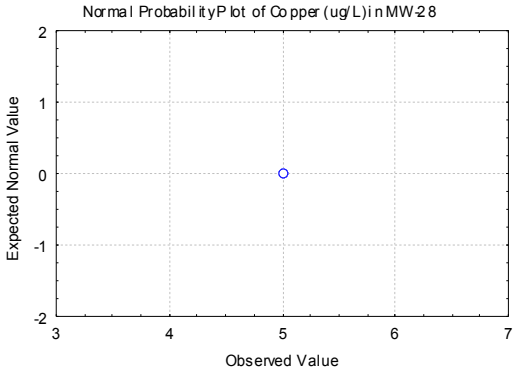
Copper Probability Plot

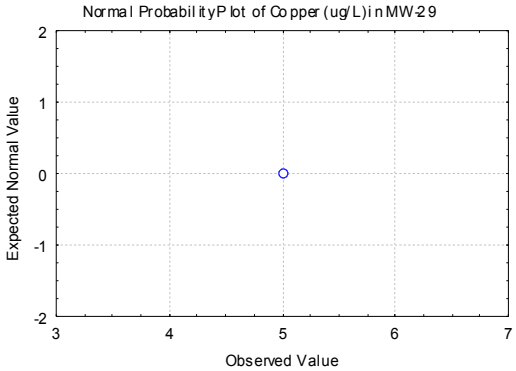


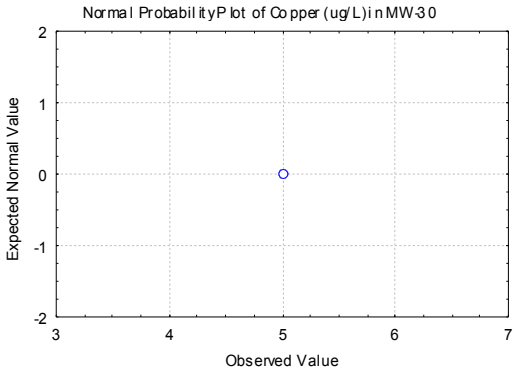


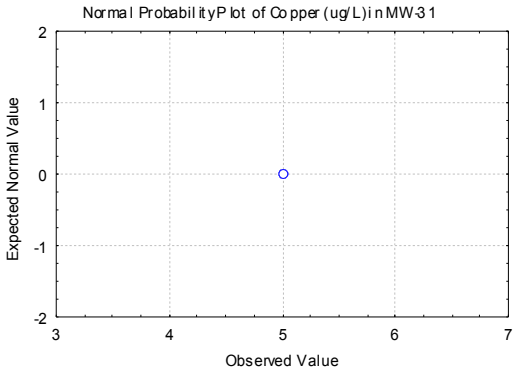


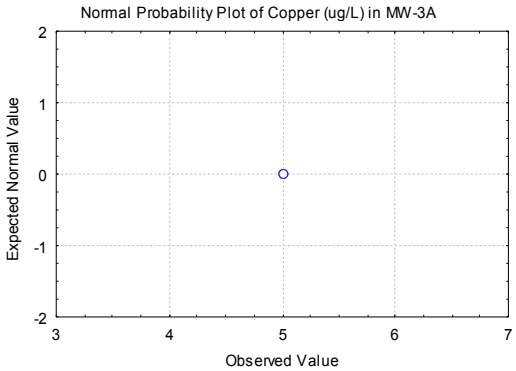




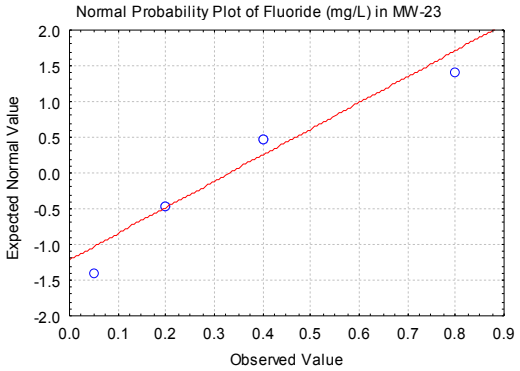


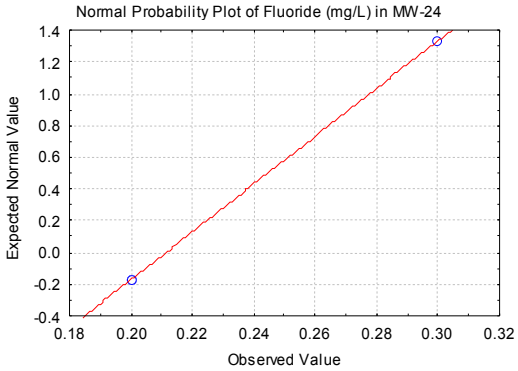


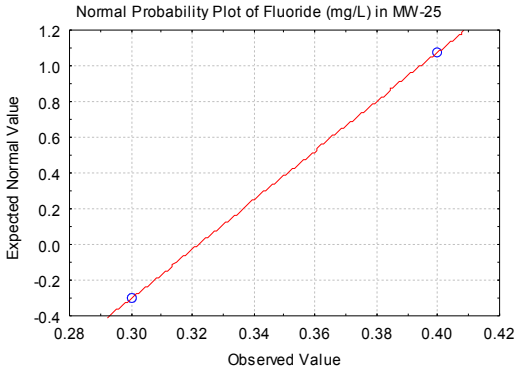


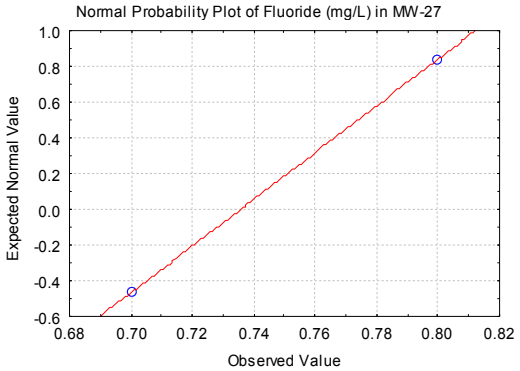


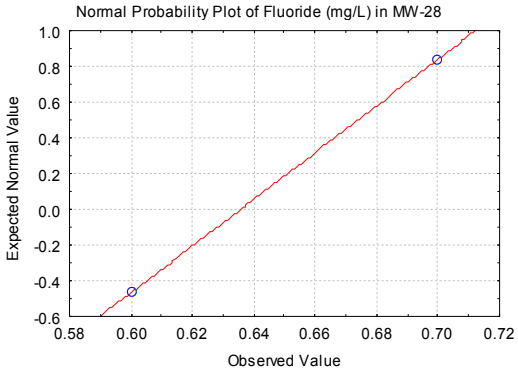
Fluoride Probability Plots

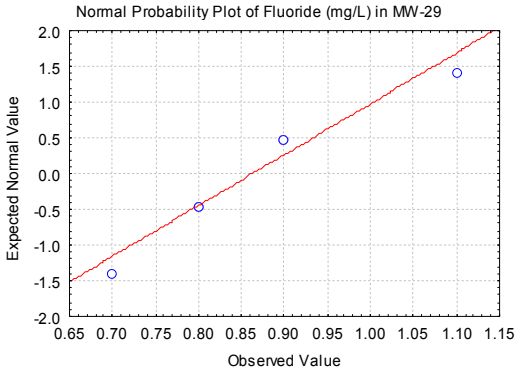


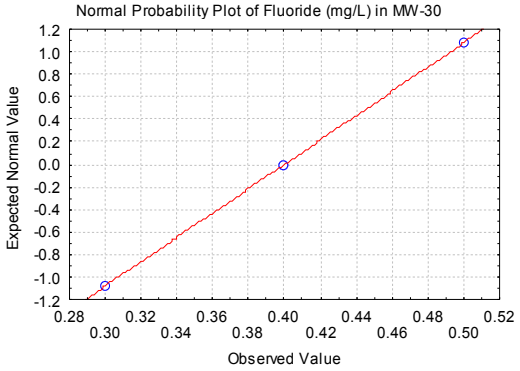


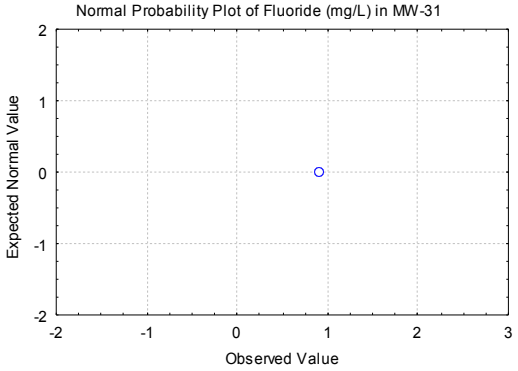


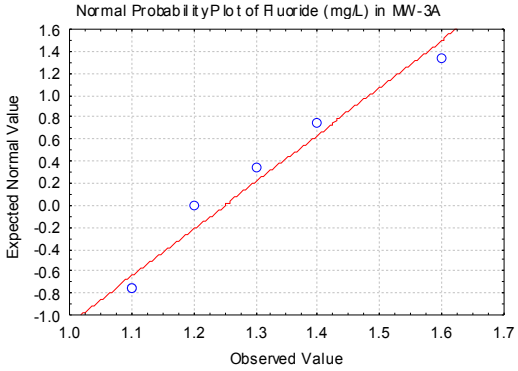




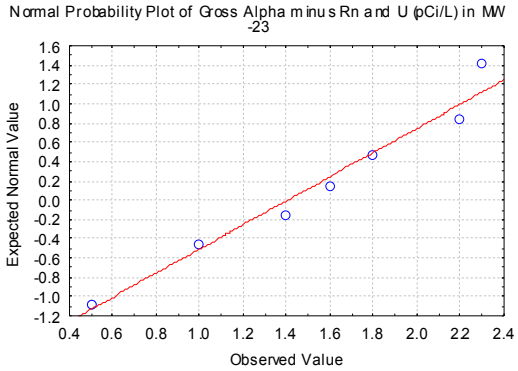


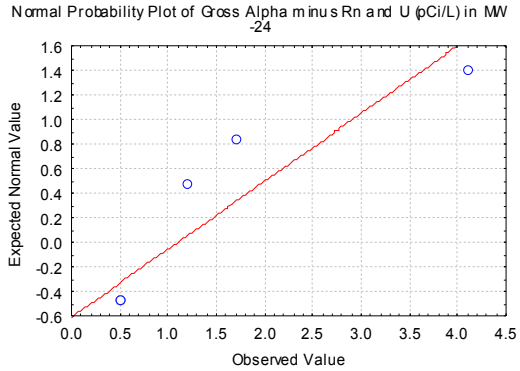


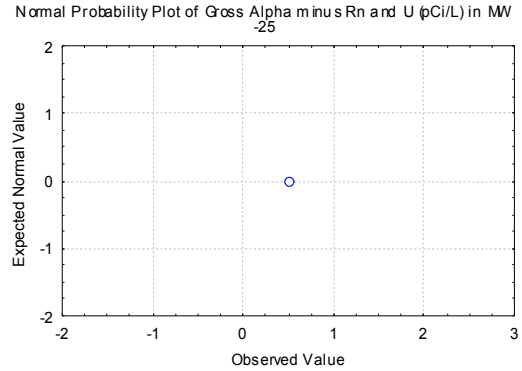


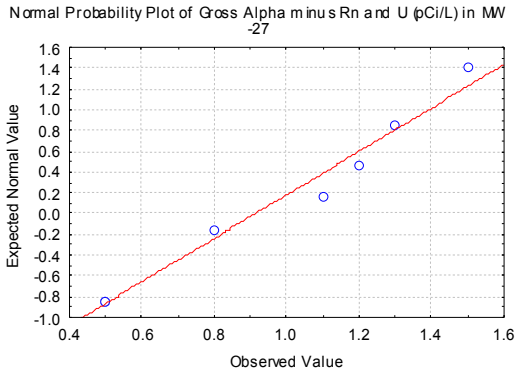


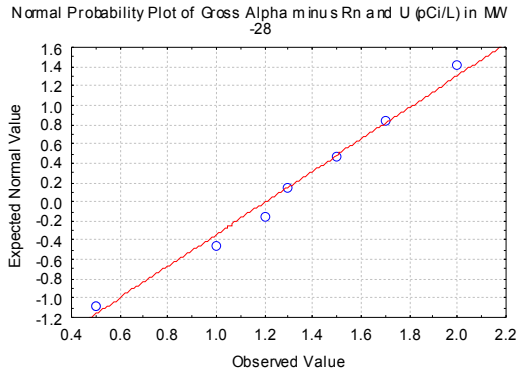
Gross Alpha Probability Plots

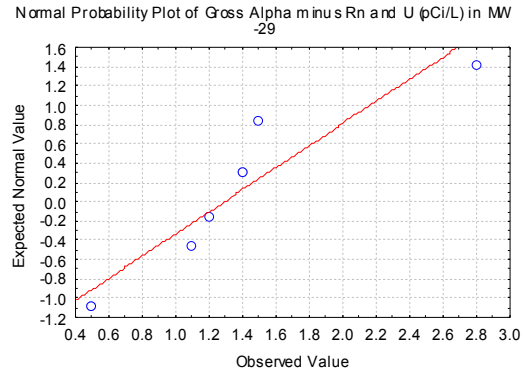


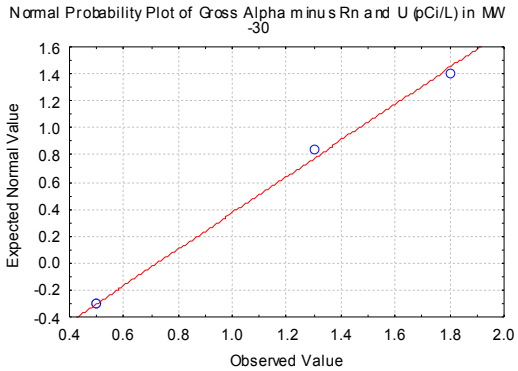


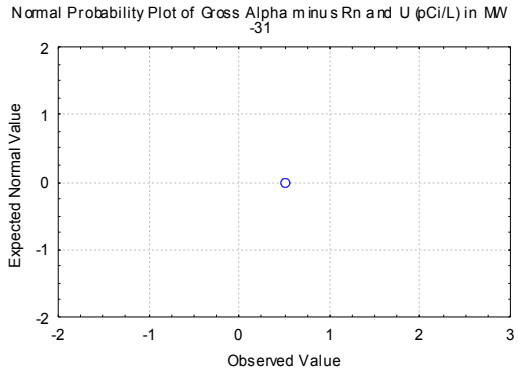


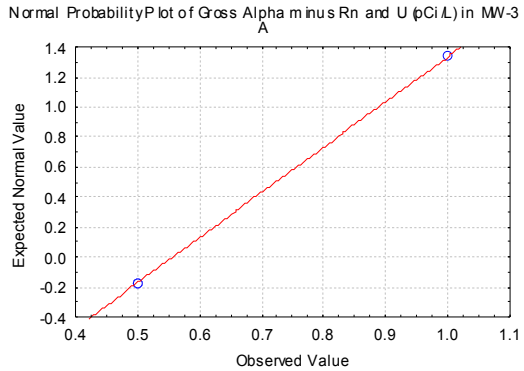




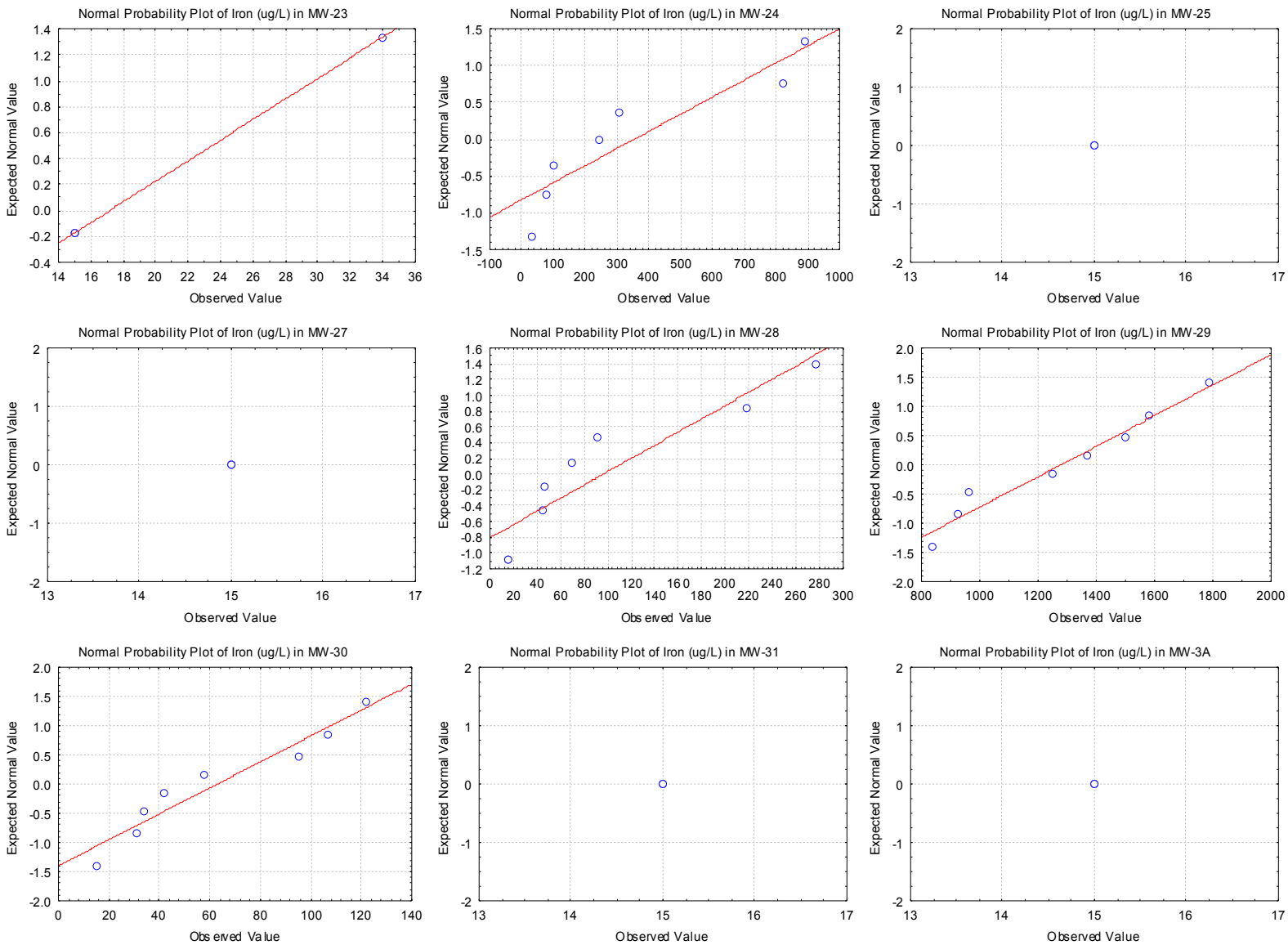




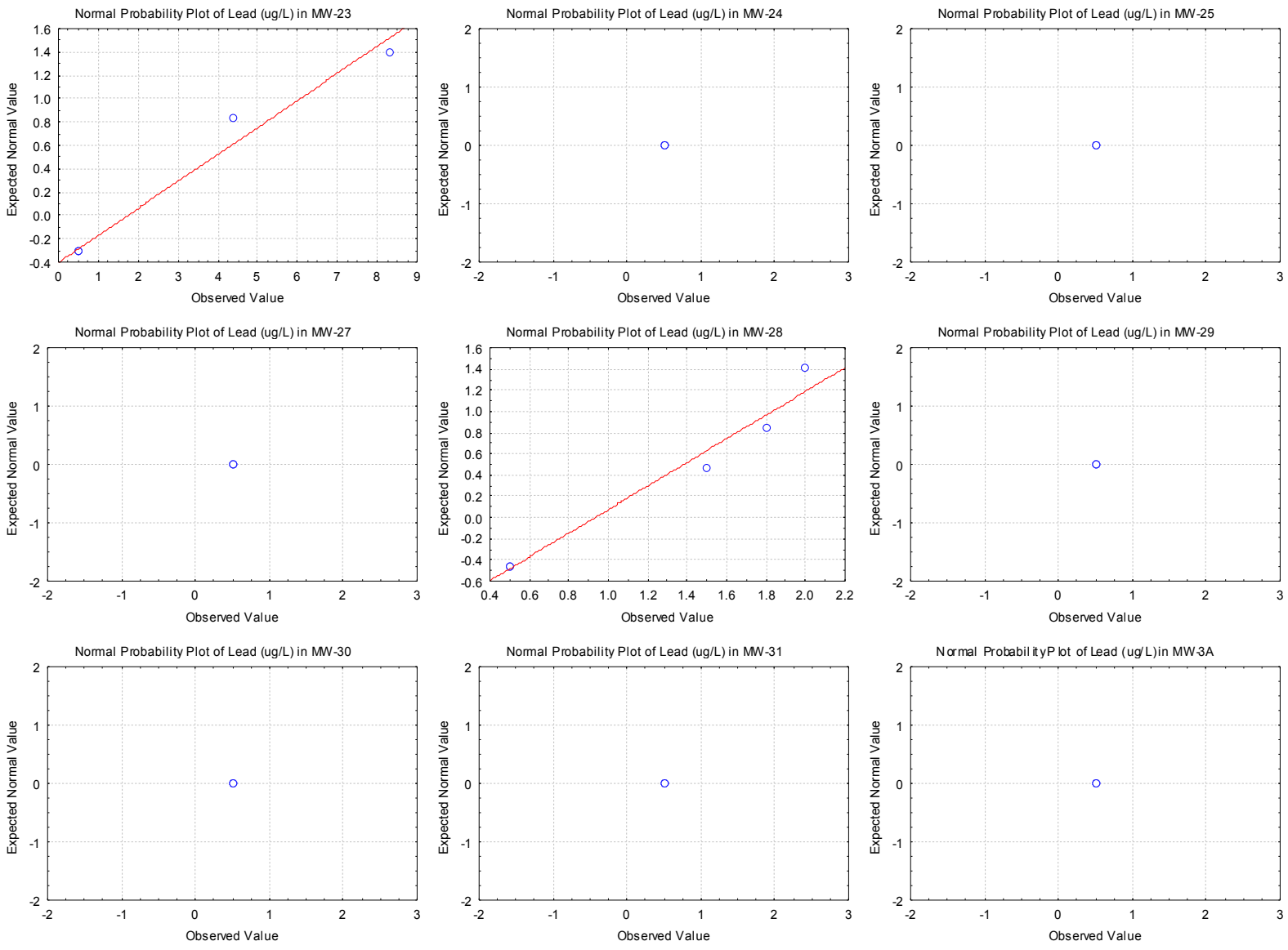




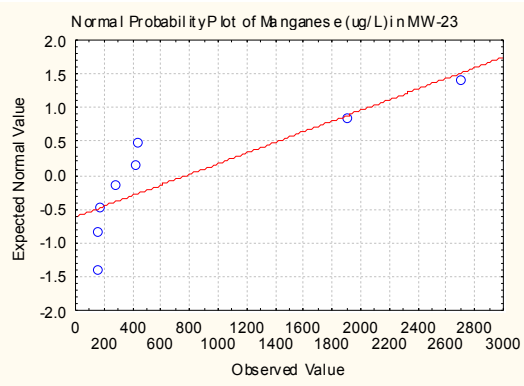
Iron Probability Plots

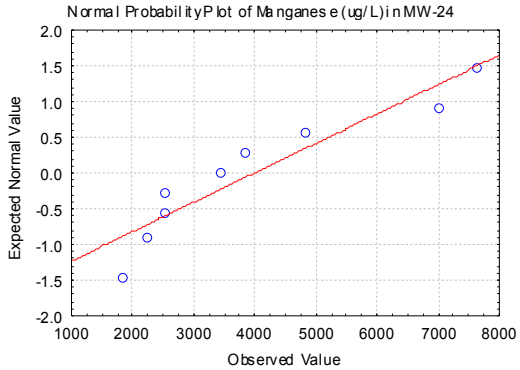


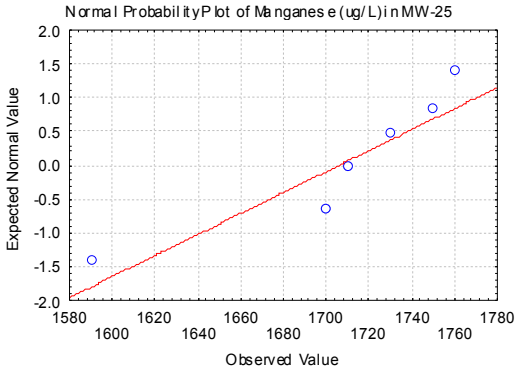
Lead Probability Plot

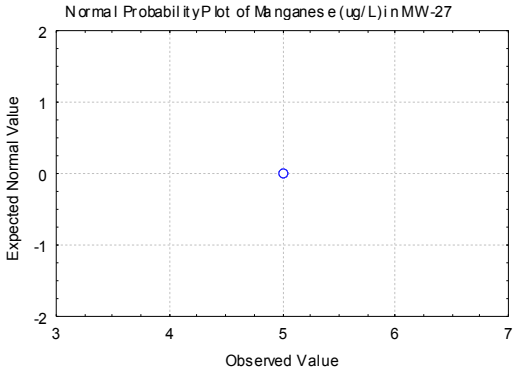


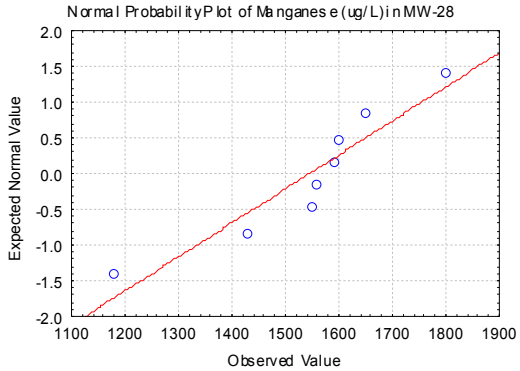
Manganese Probability Plot

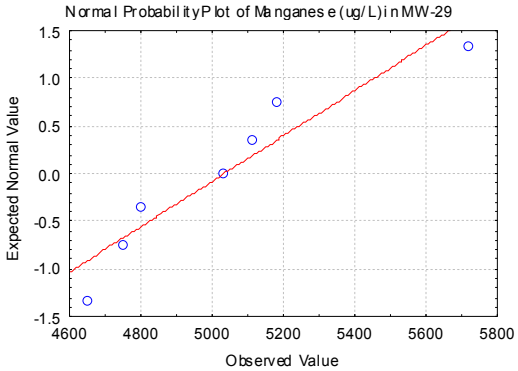


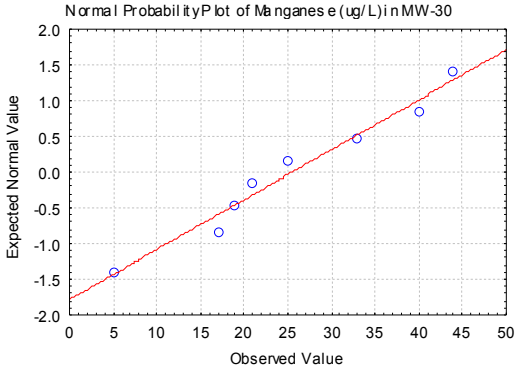


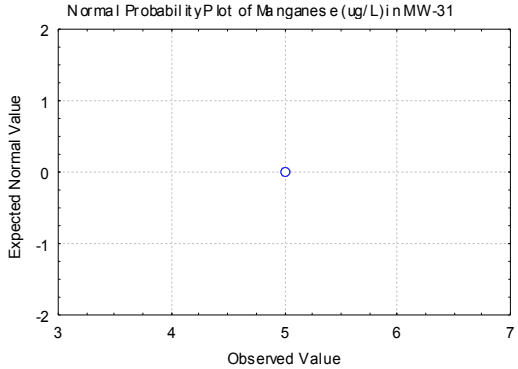


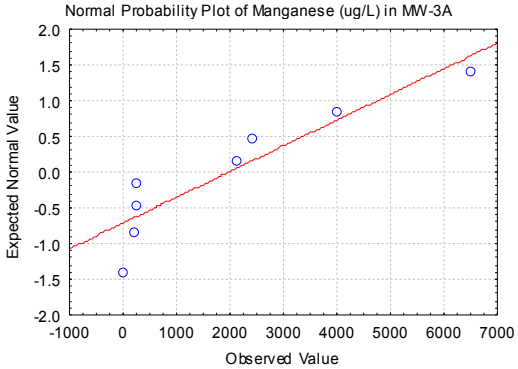




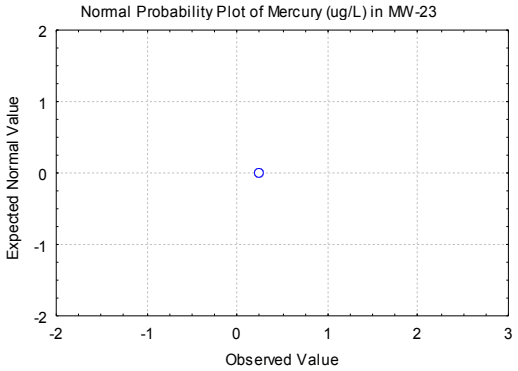


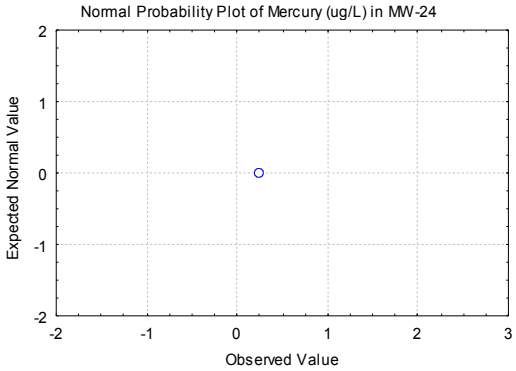


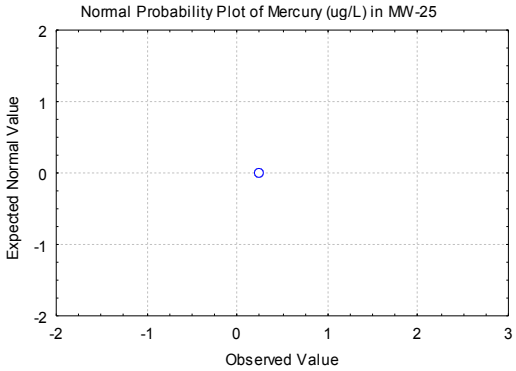


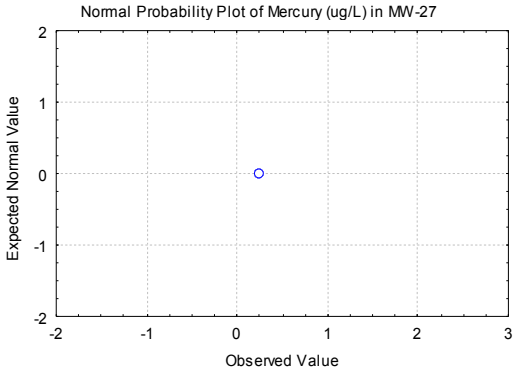


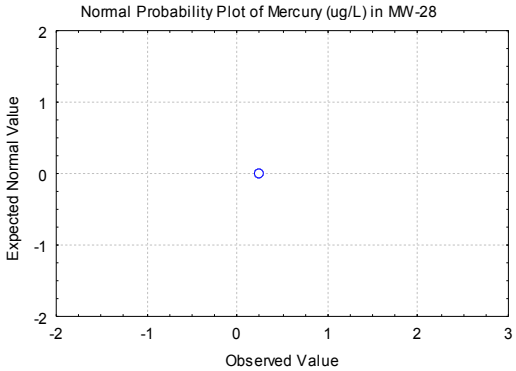
Mercury Probability Plot

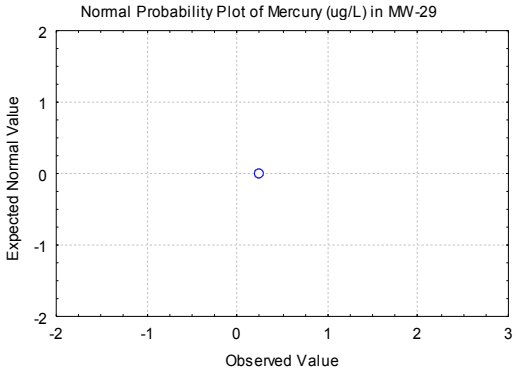


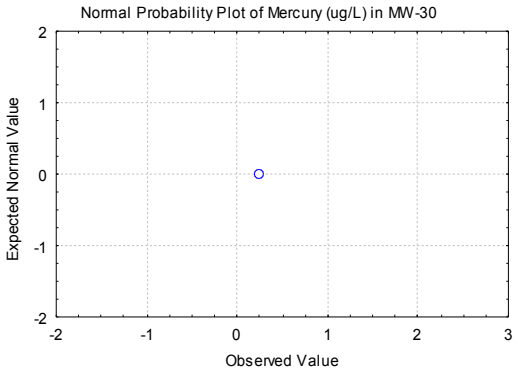


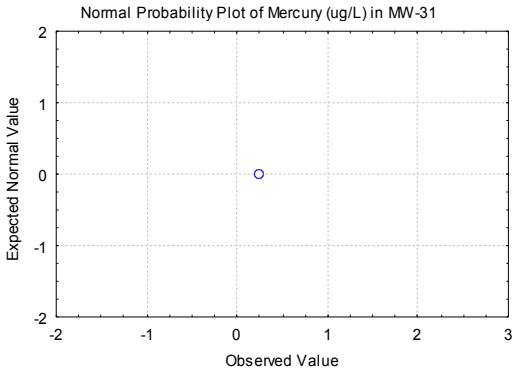


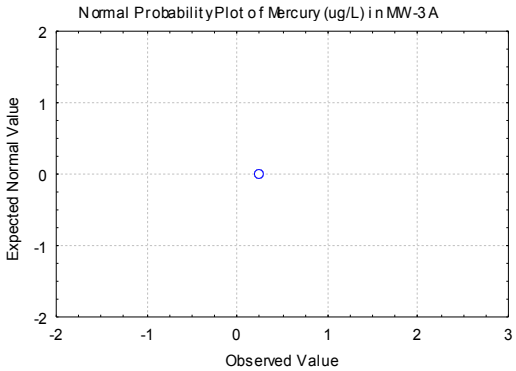




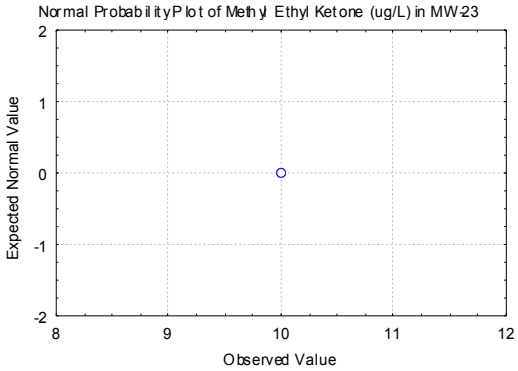


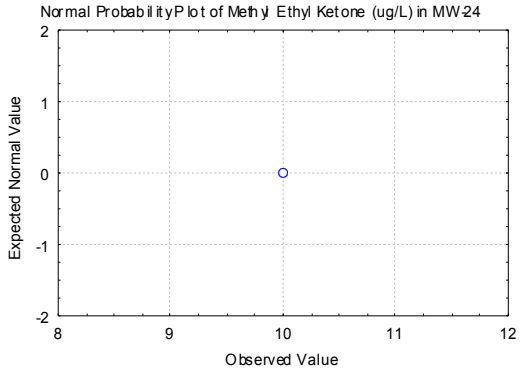


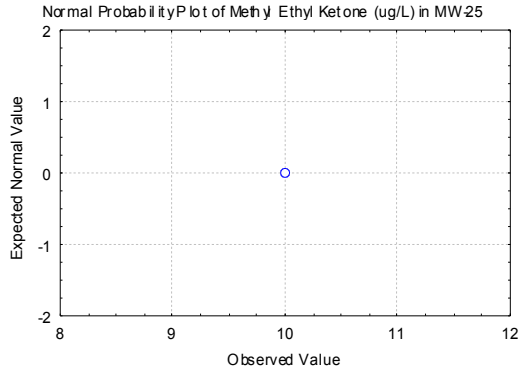


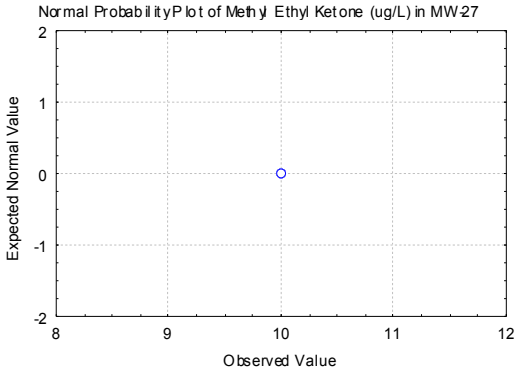


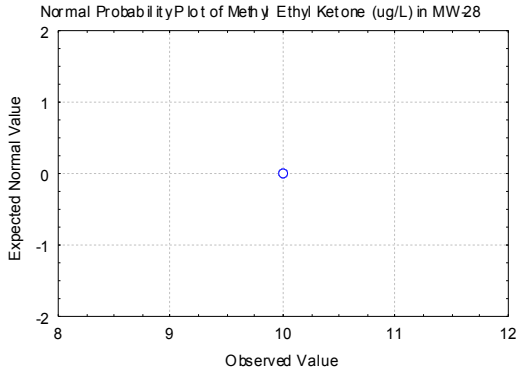
Methyl Ethyl Ketone Probability Plot

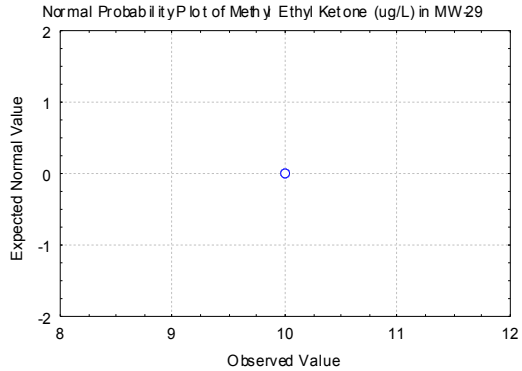


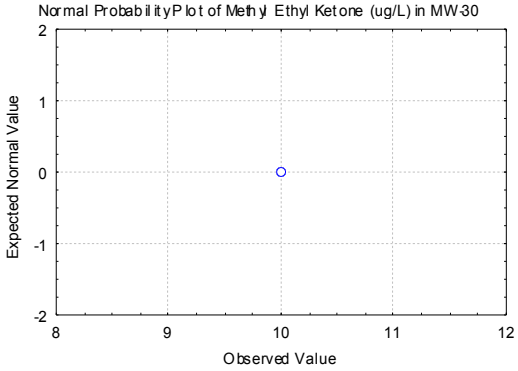


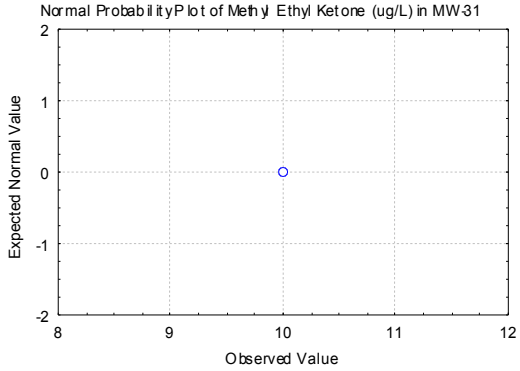


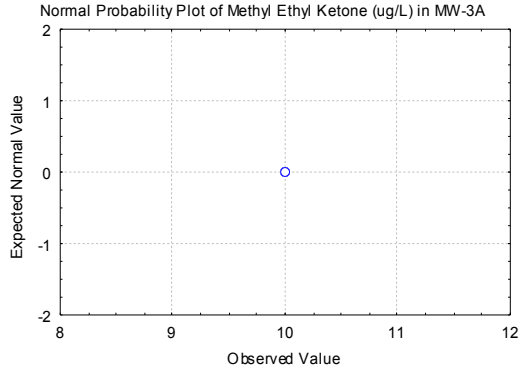




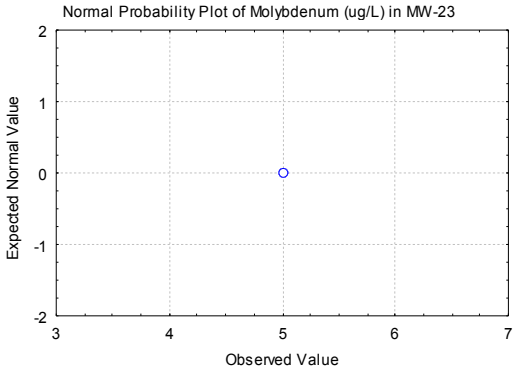


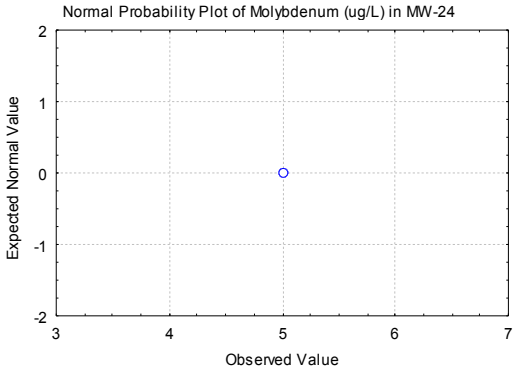


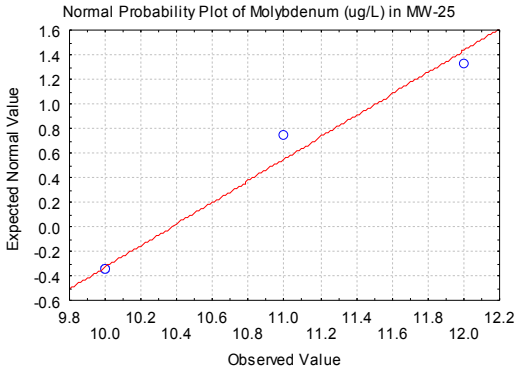


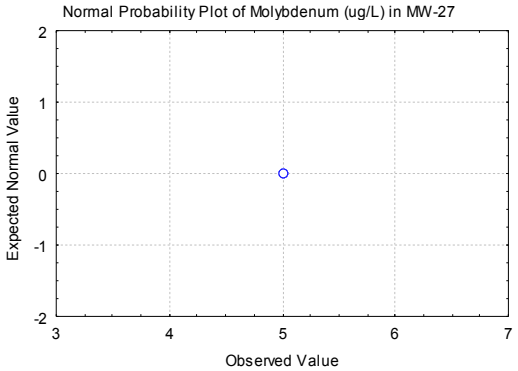


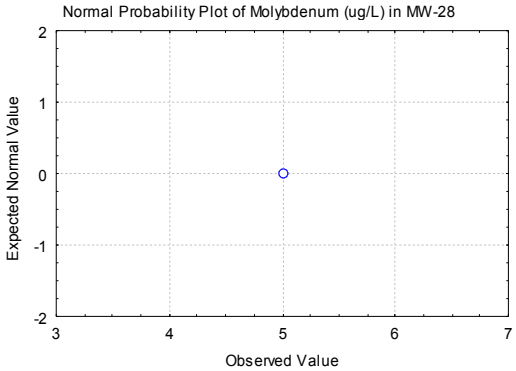
Molybdenum Probability Plot

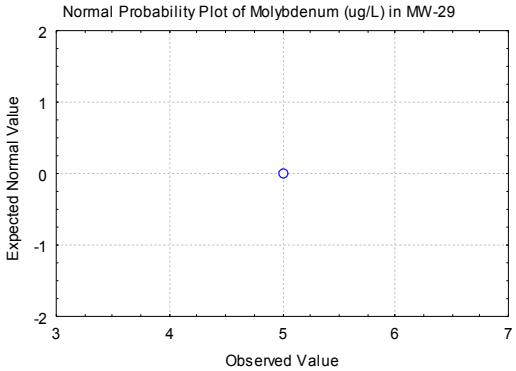


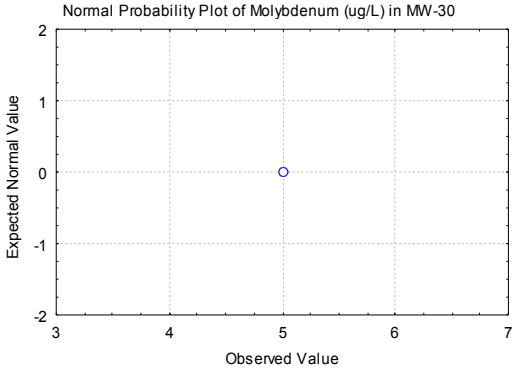


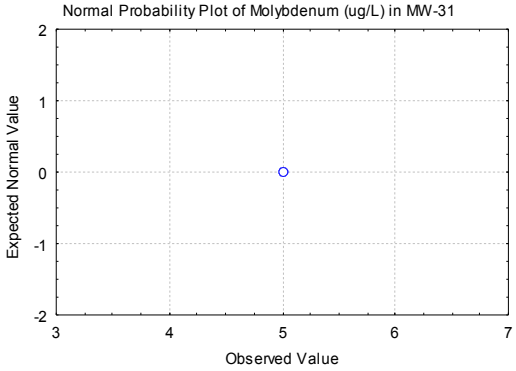


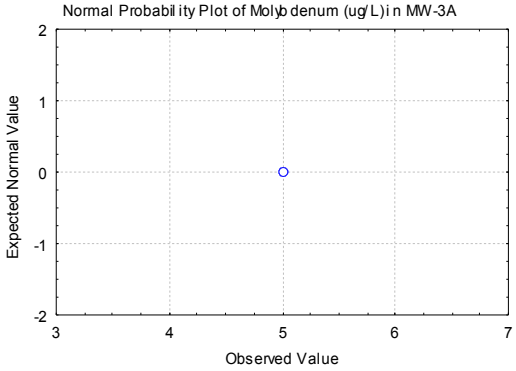




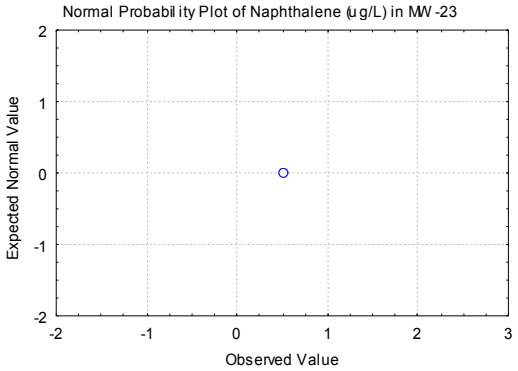


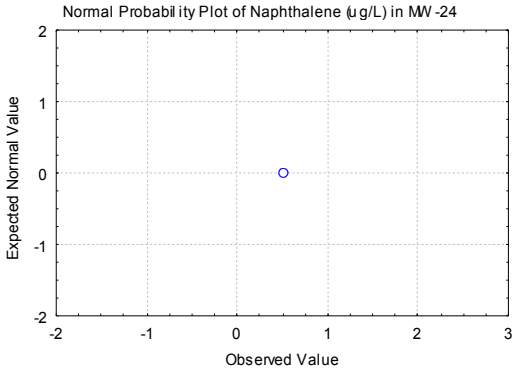


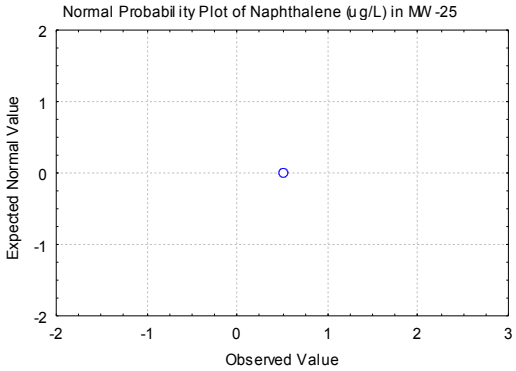


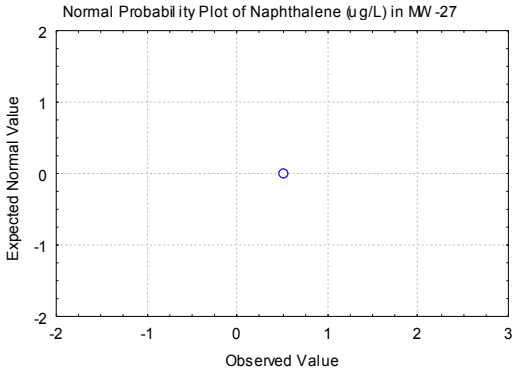


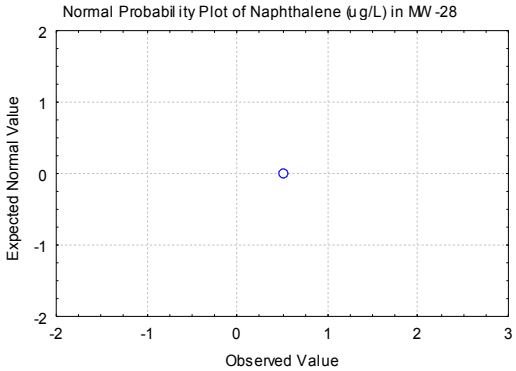
Naphthalene Probability Plot

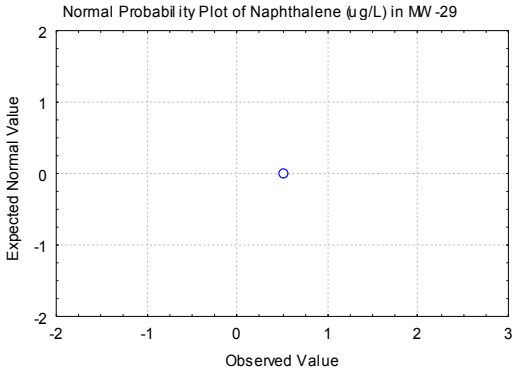


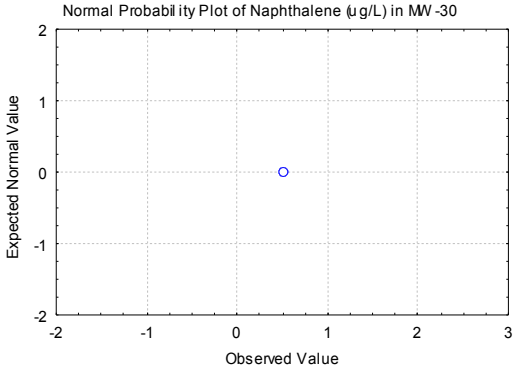


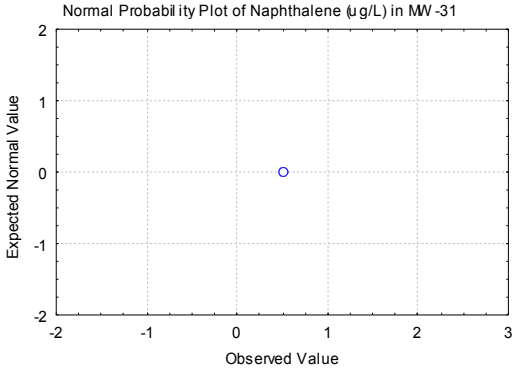


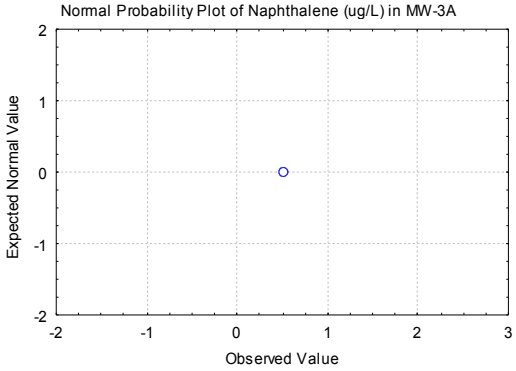




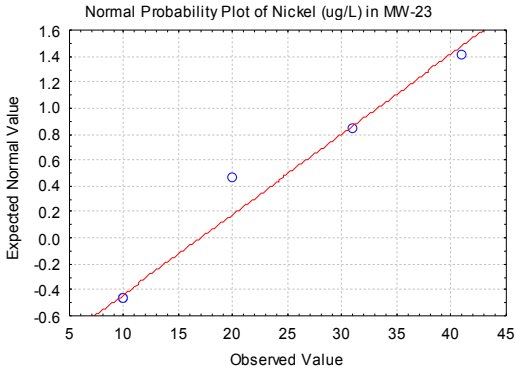


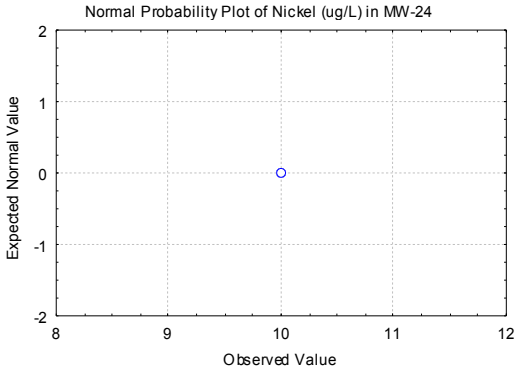


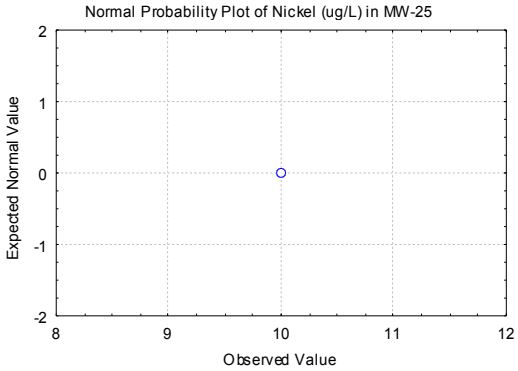


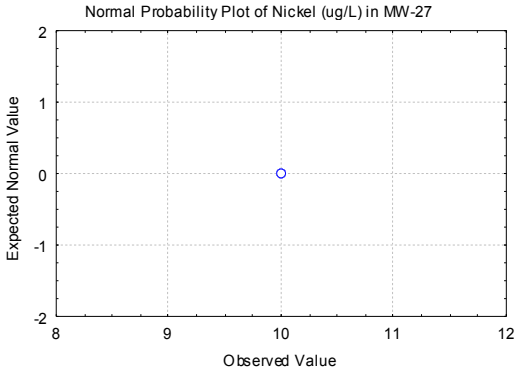


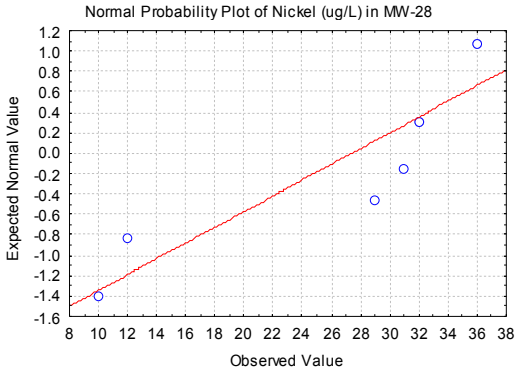
Nickel Probability Plot

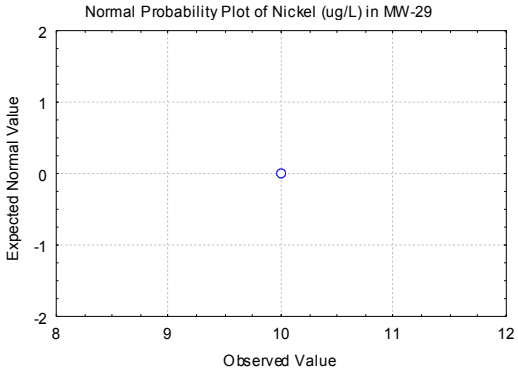


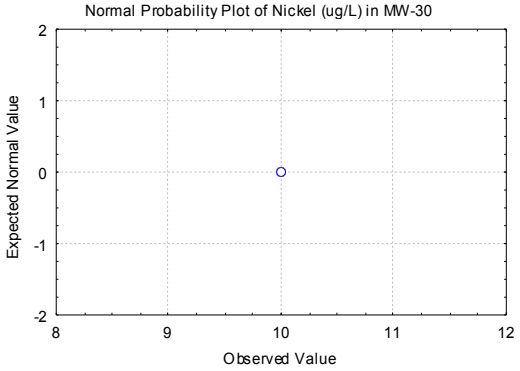


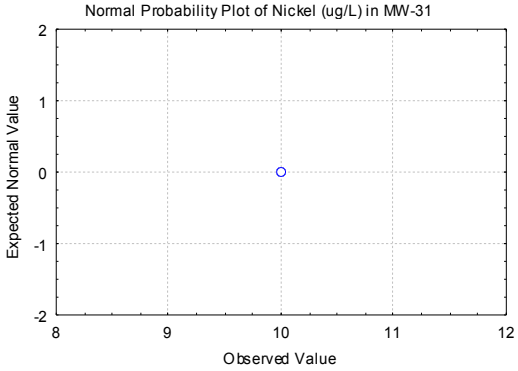


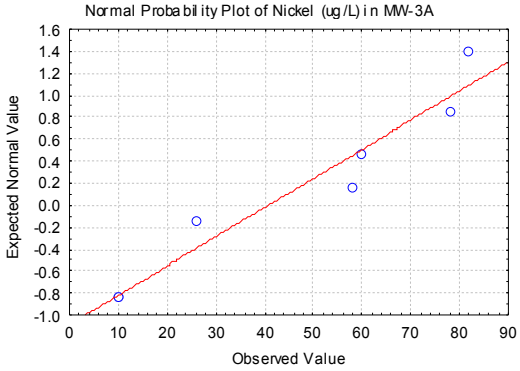




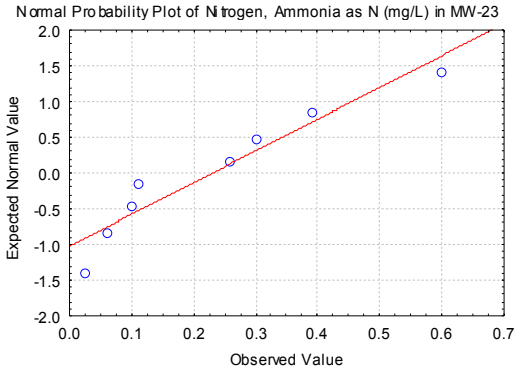


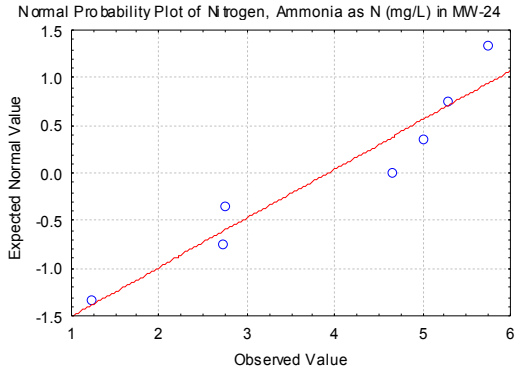


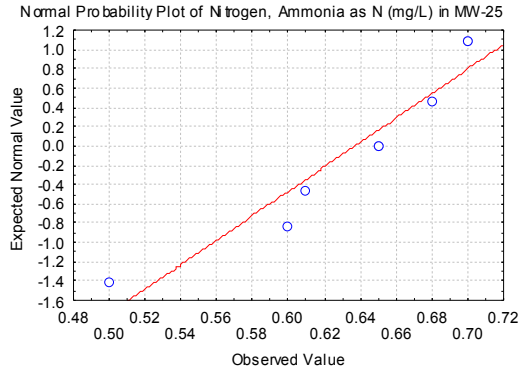


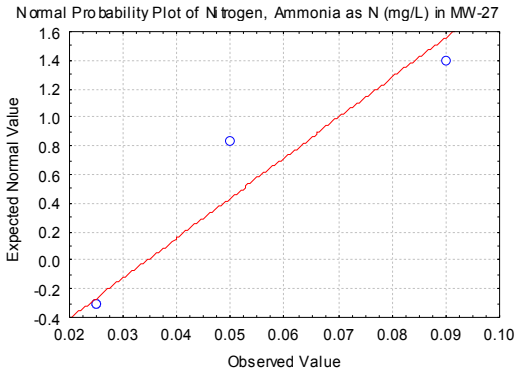


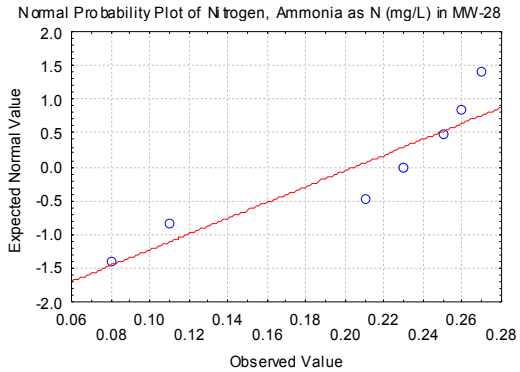
Nitrogen, Ammonia as N Probability Plot

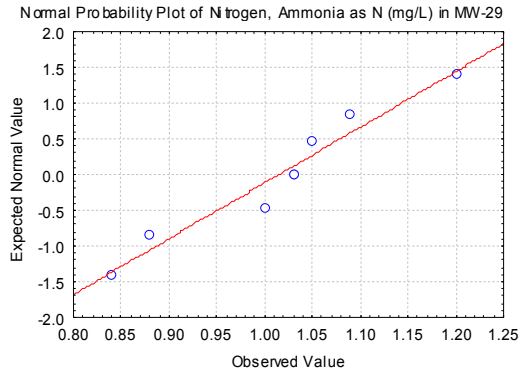


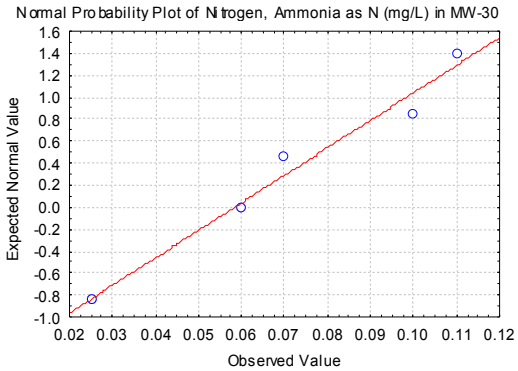


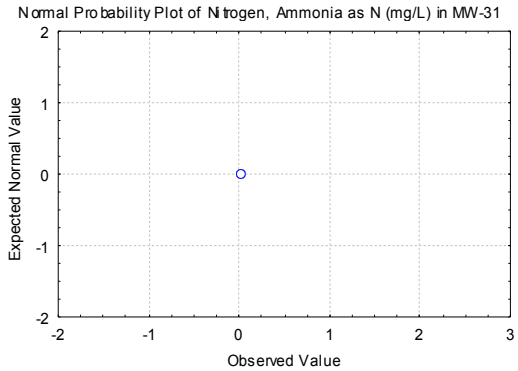


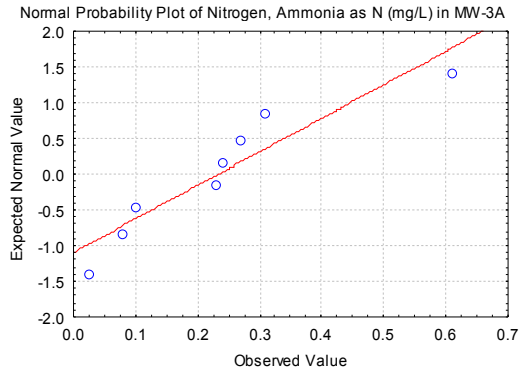




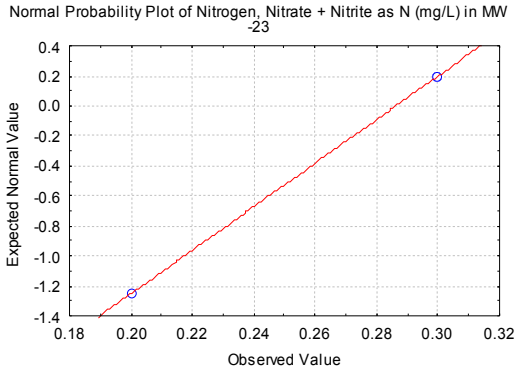


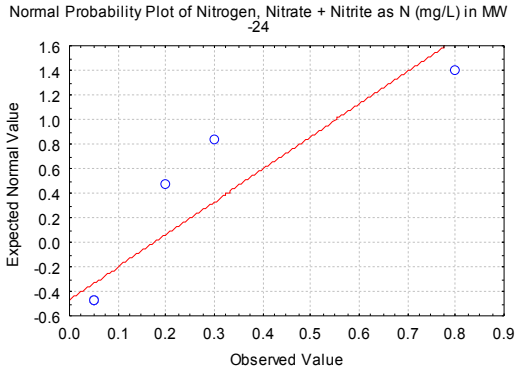


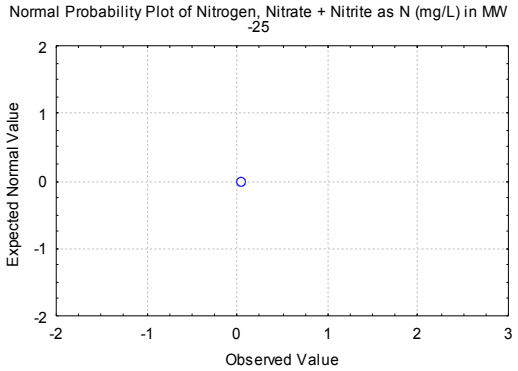


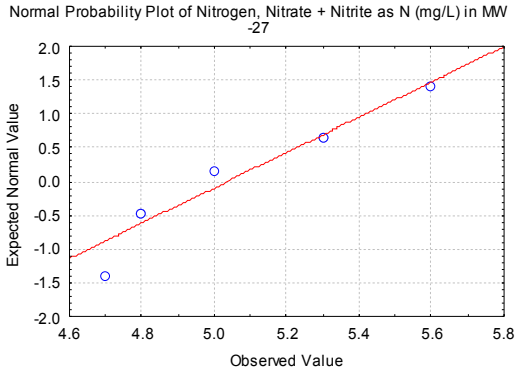


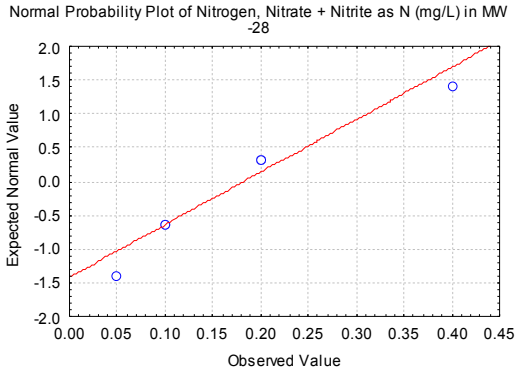
Nitrogen, Nitrate+Nitrite as N Probability Plots

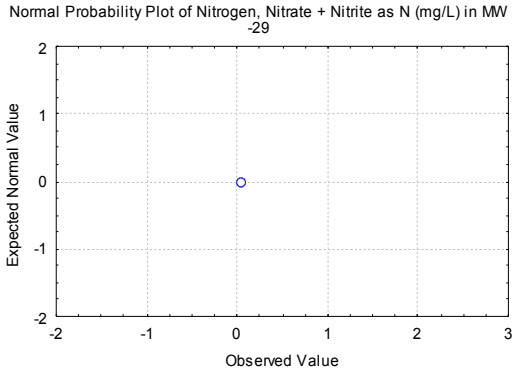


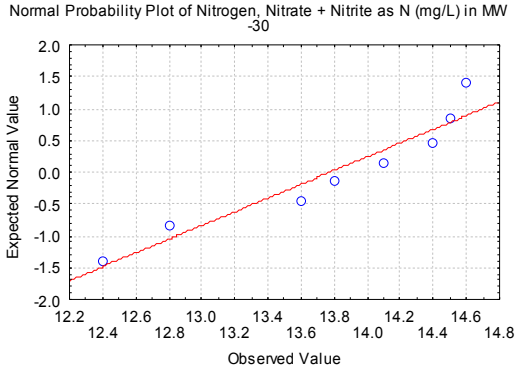


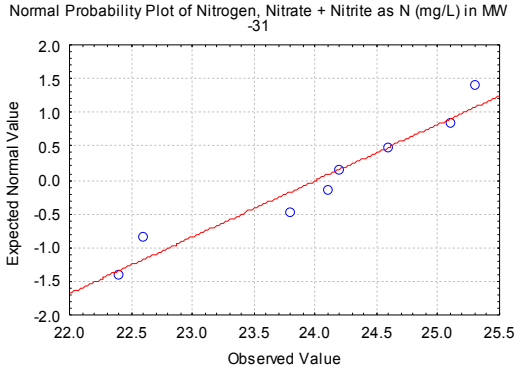


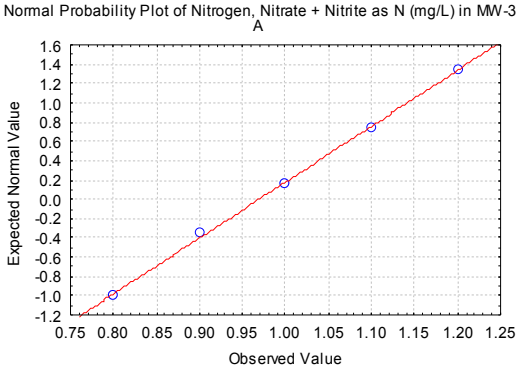




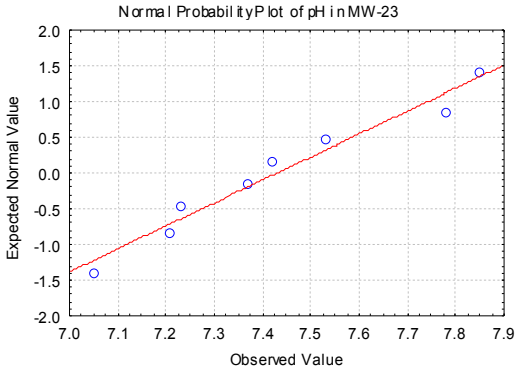


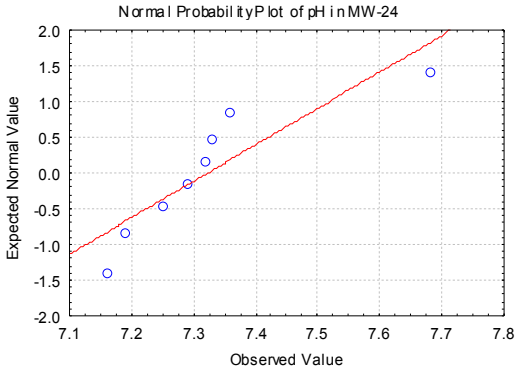


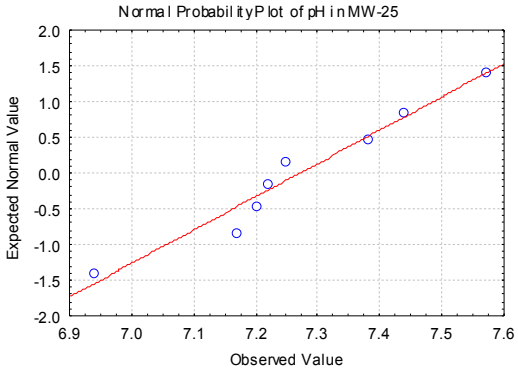


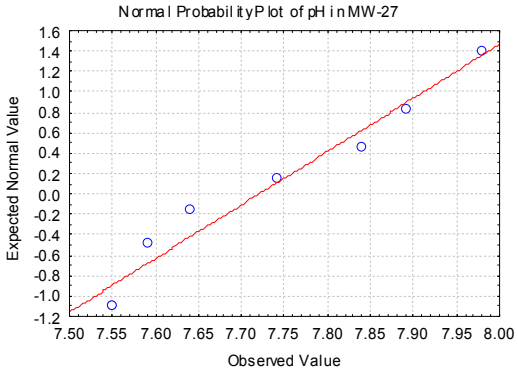


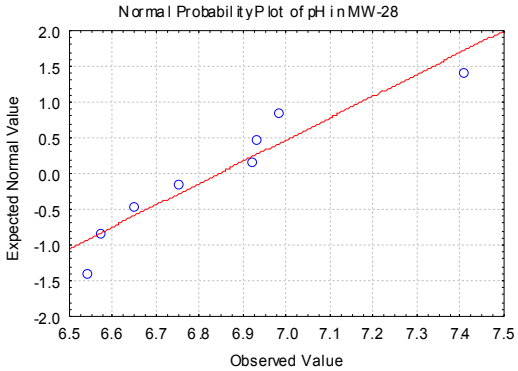
pH Probability Plots

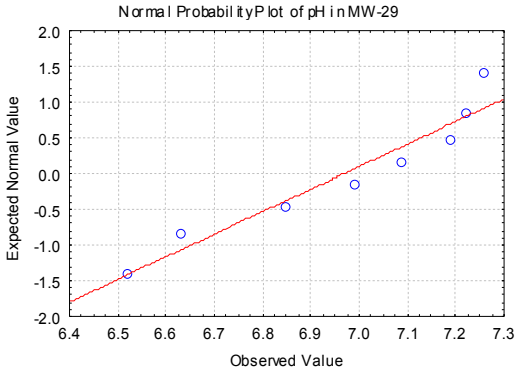


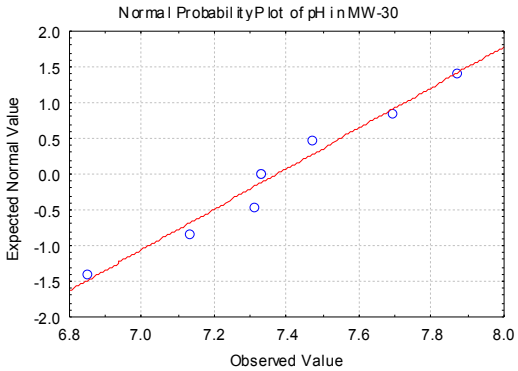


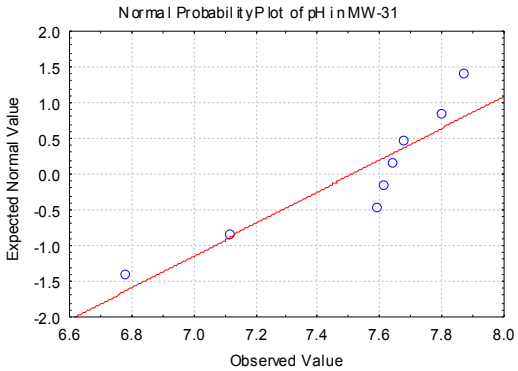


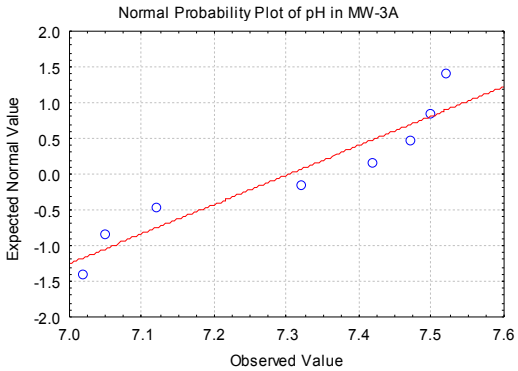




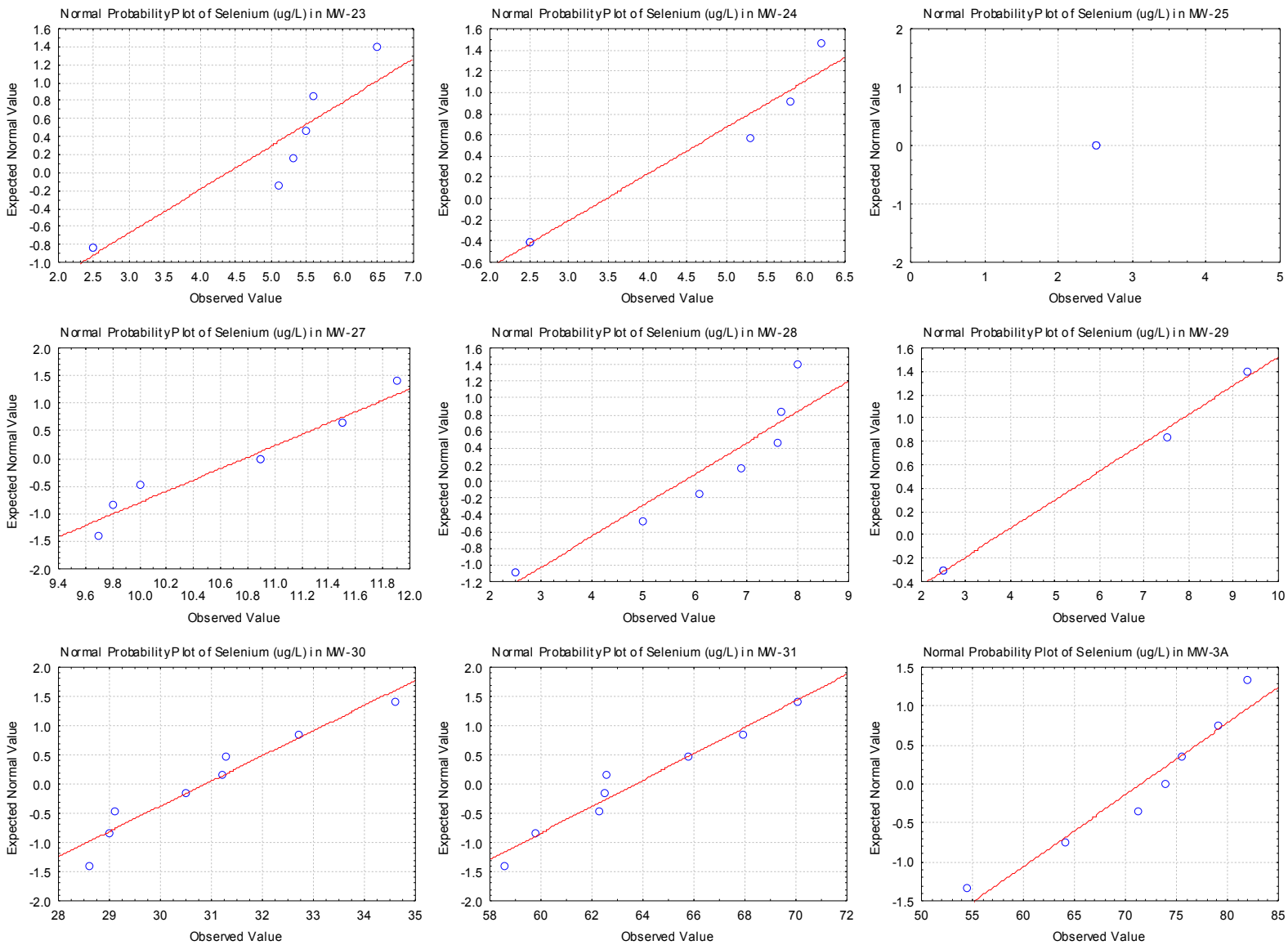




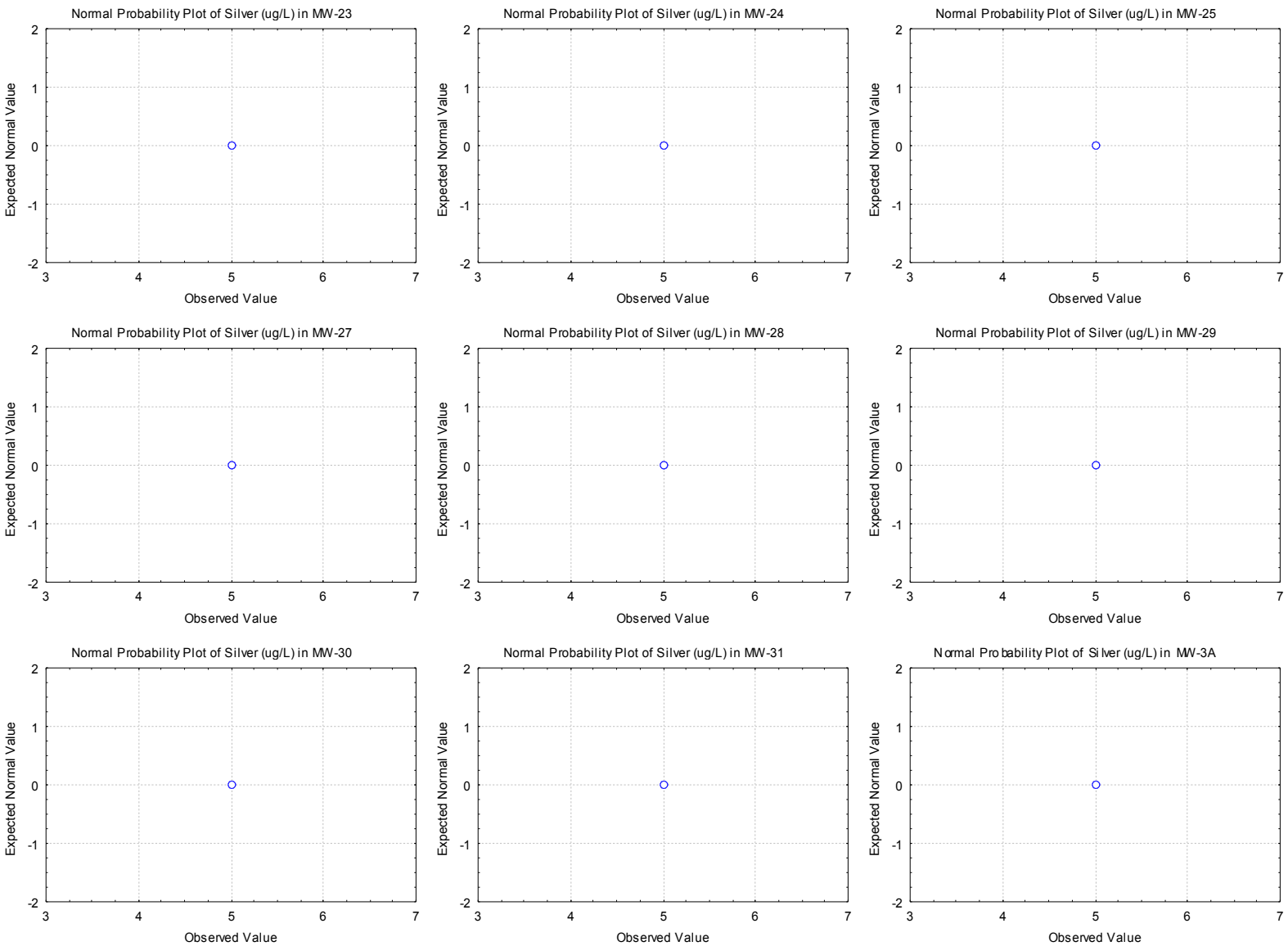




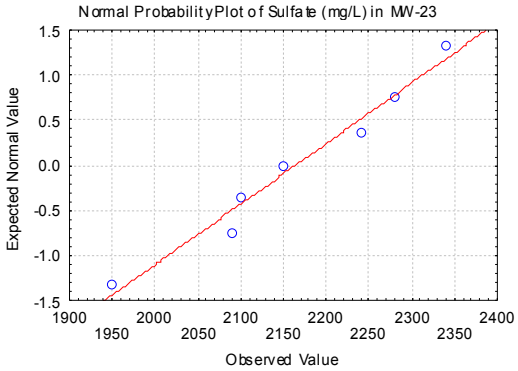
Selenium Probability Plots

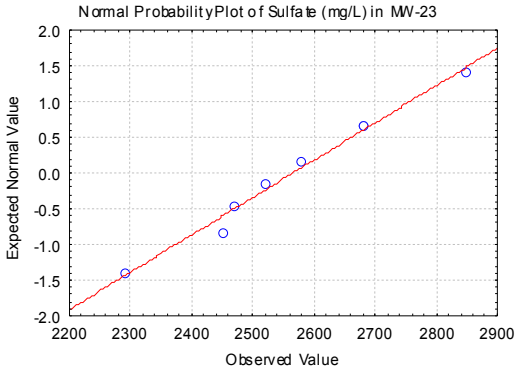


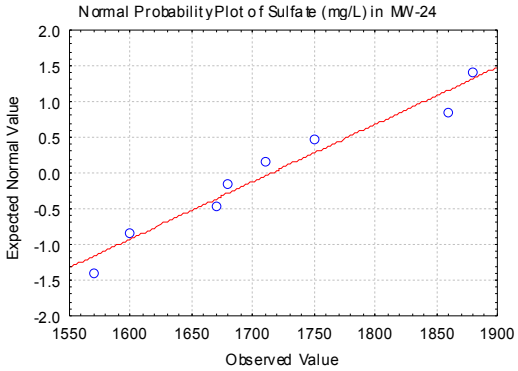
Silver Probability Plots

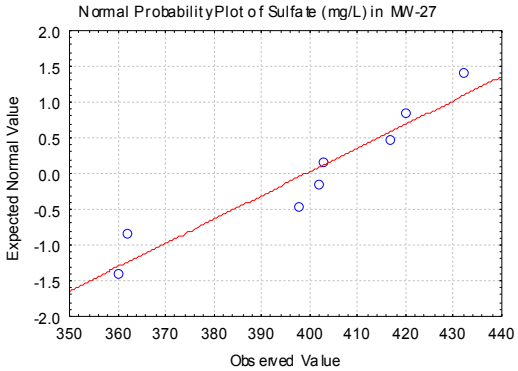


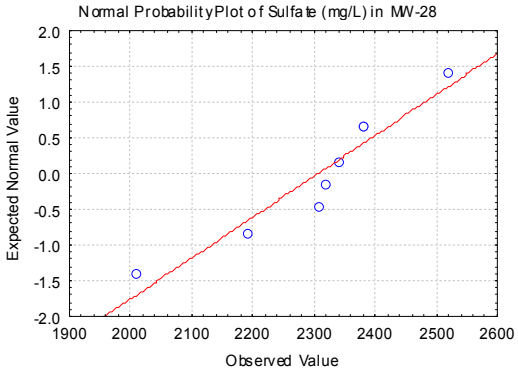
Sulfate Probability Plots

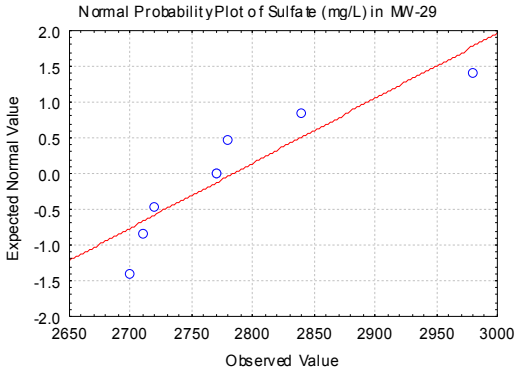


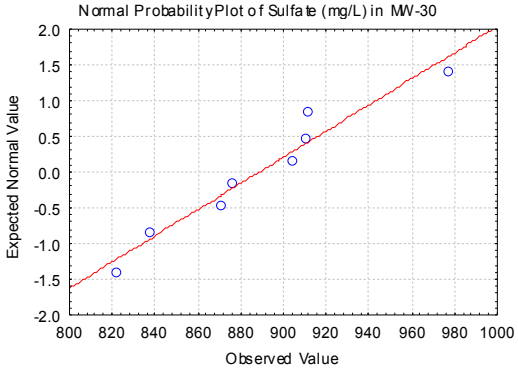


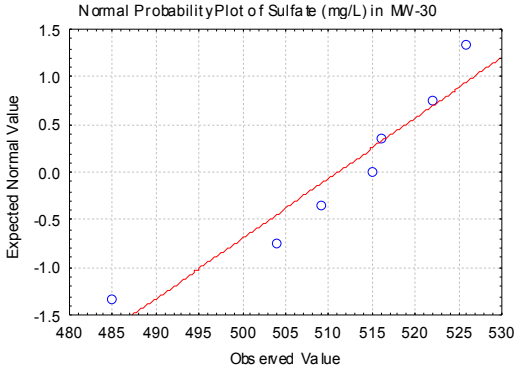


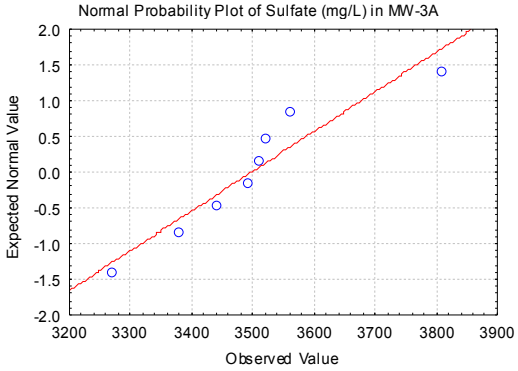




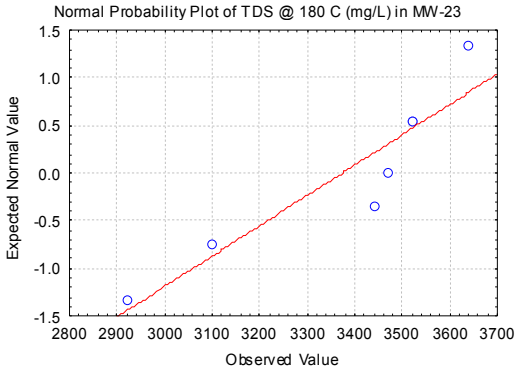


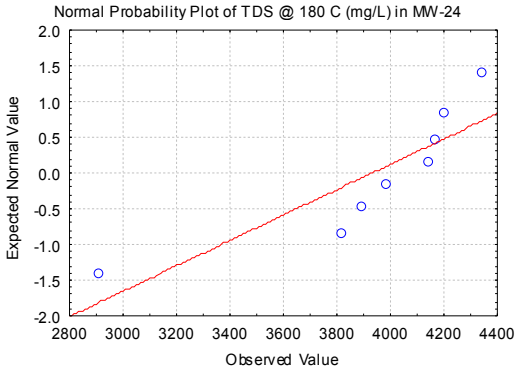


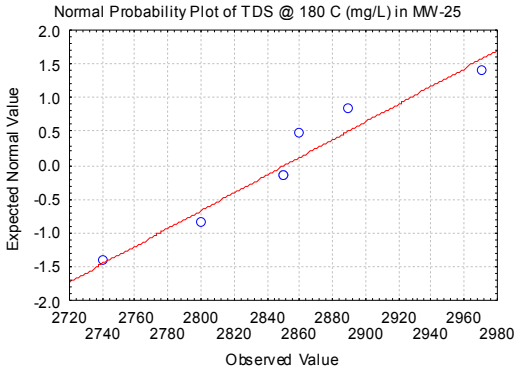


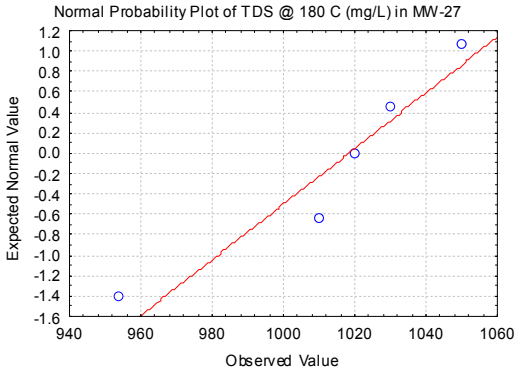


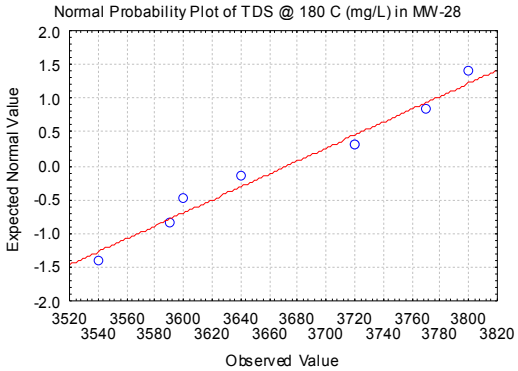
TDS Probability Plots

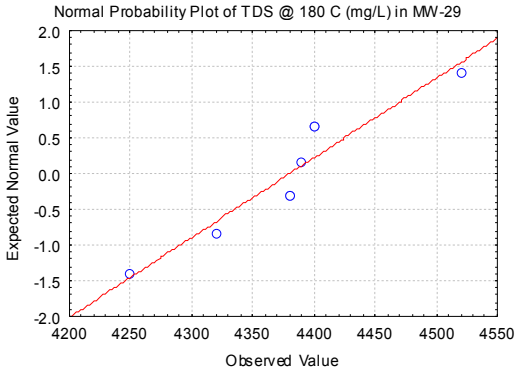


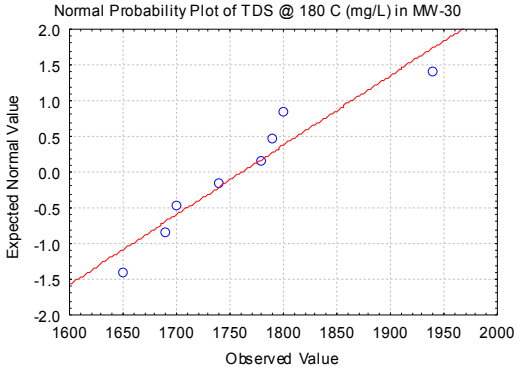


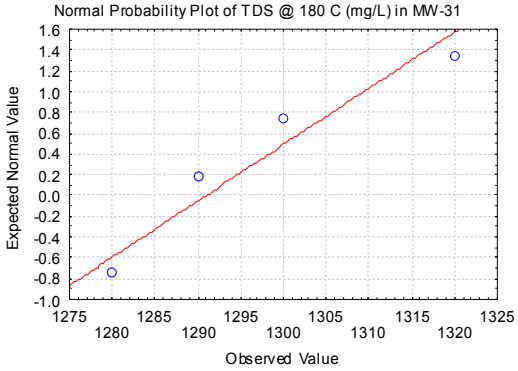


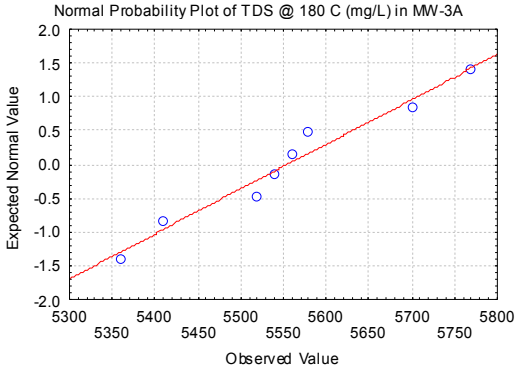




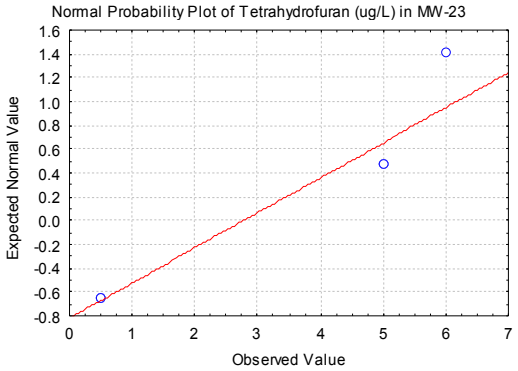


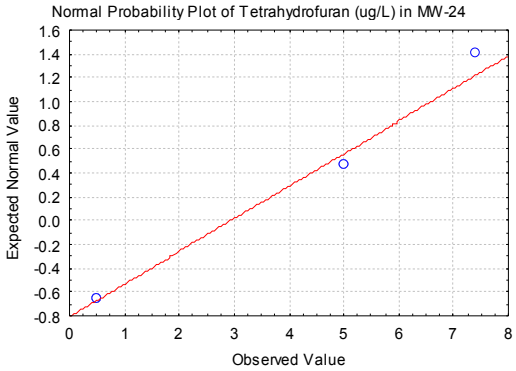


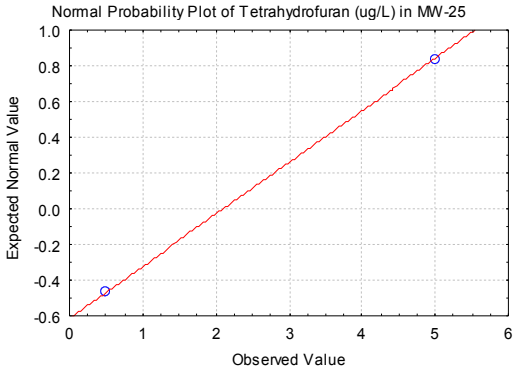


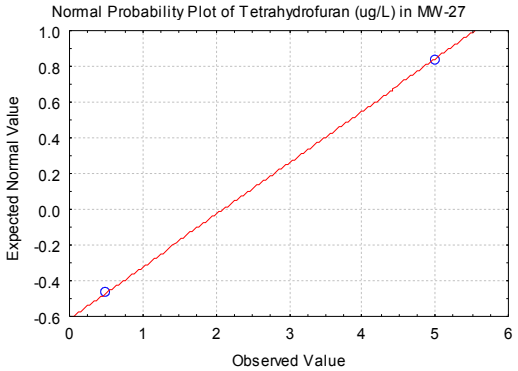


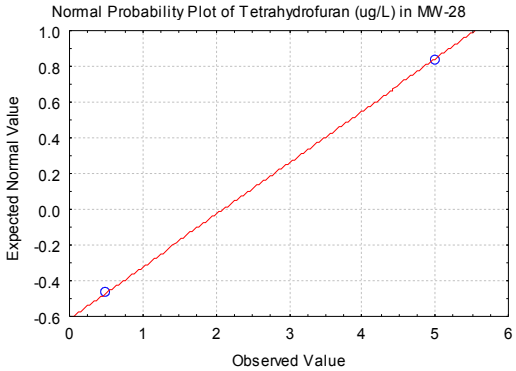
Tetrahydrofuran Probability Plots

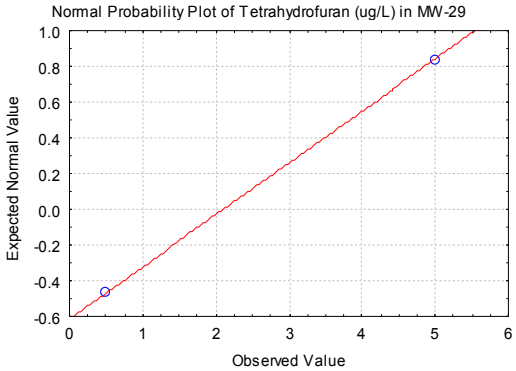


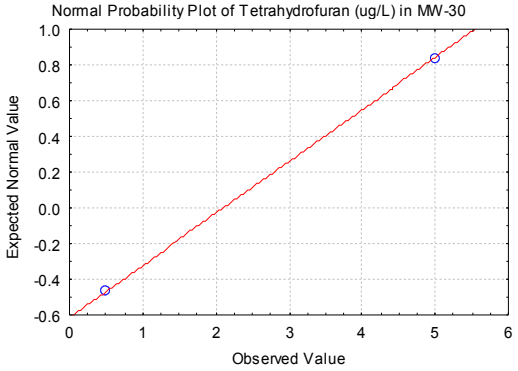


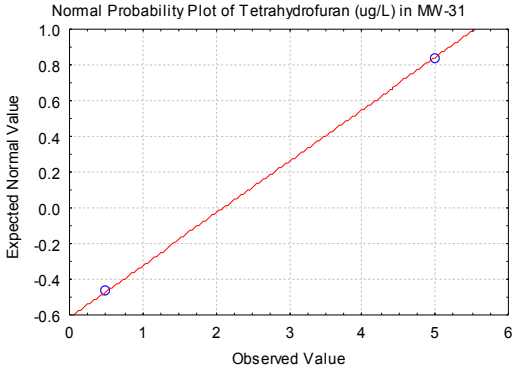


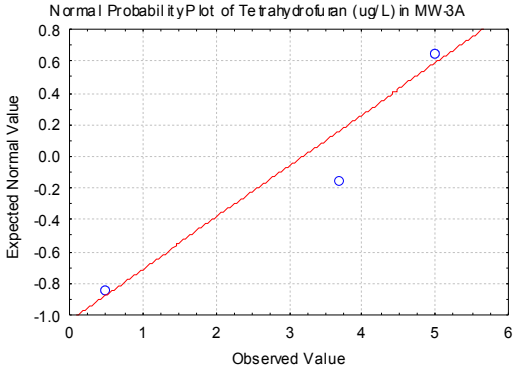




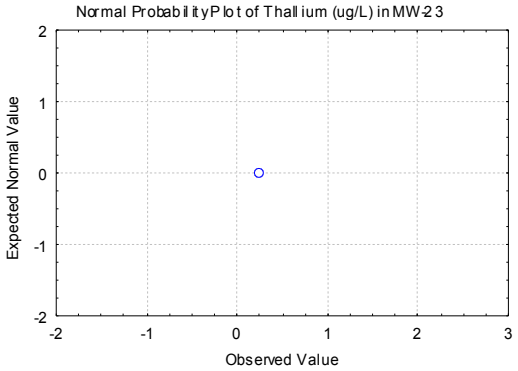


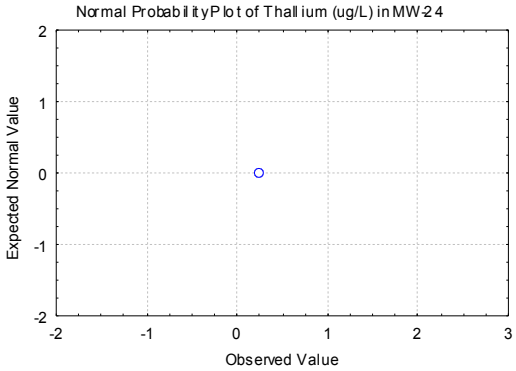


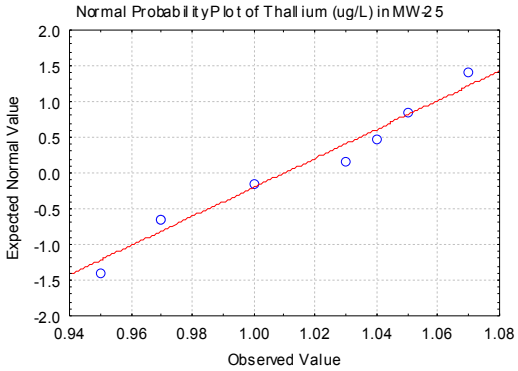


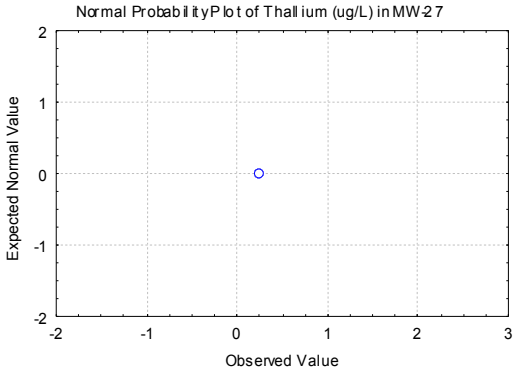


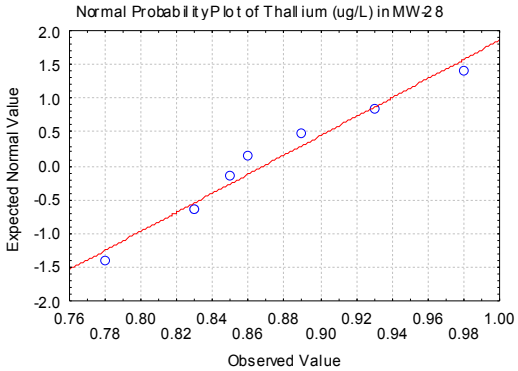
Thallium Probability Plots

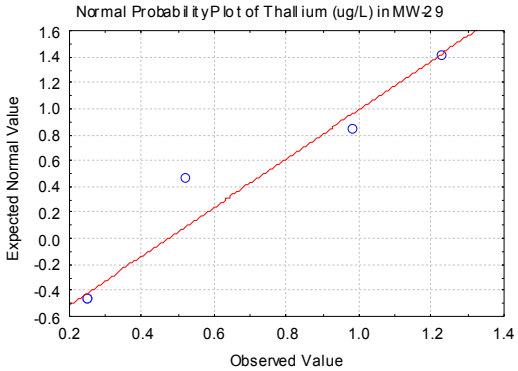


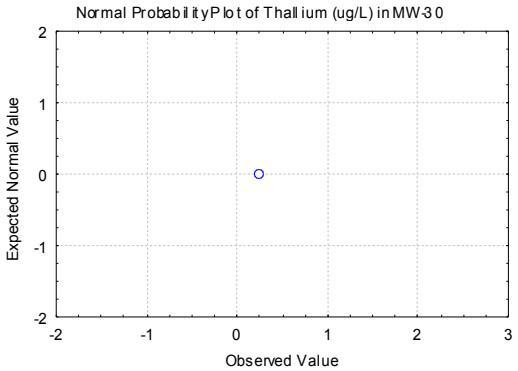


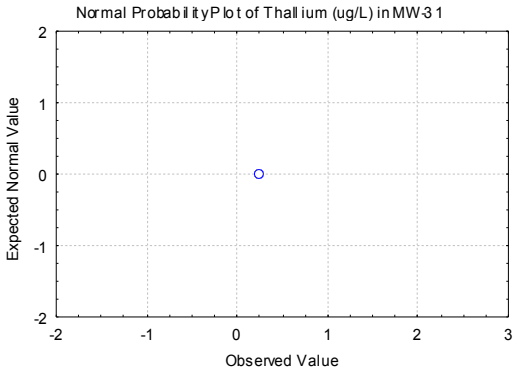


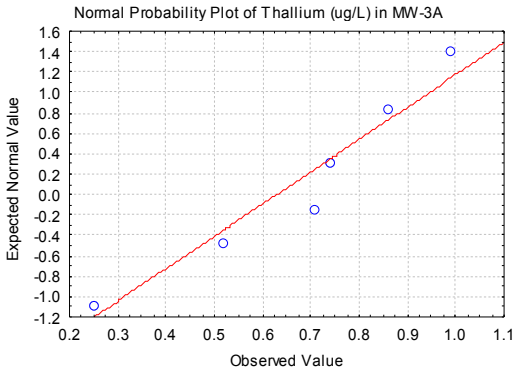




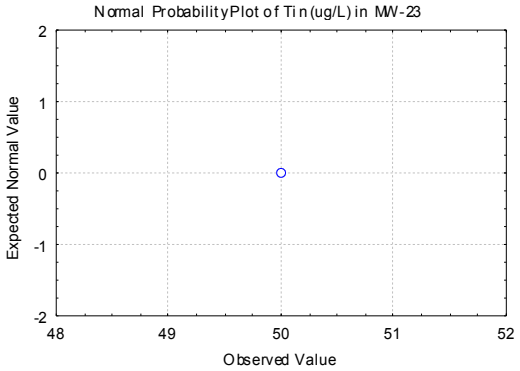


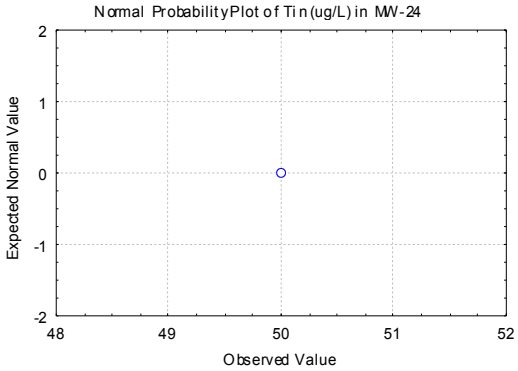


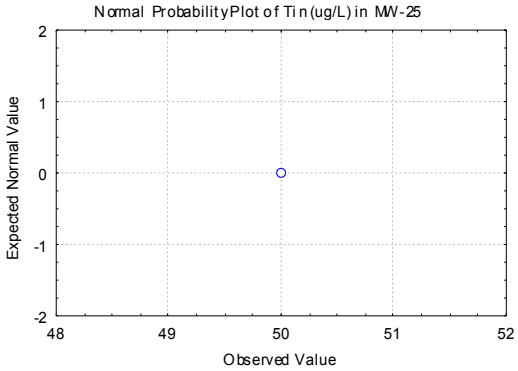


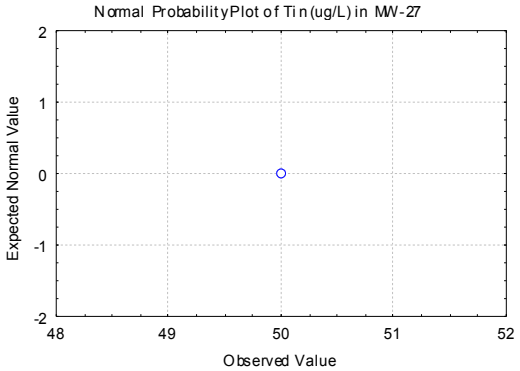


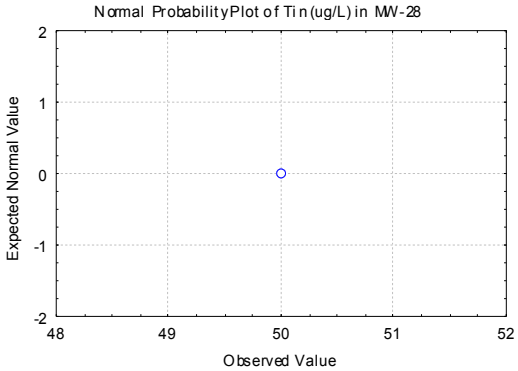
Tin Probability Plot

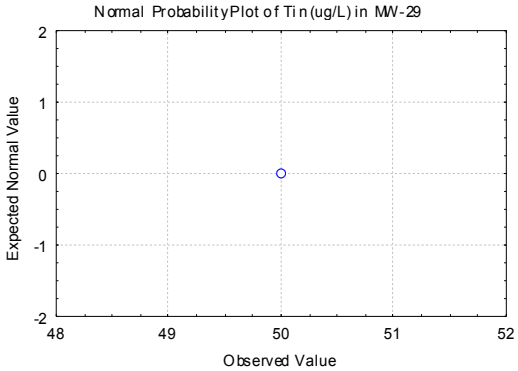


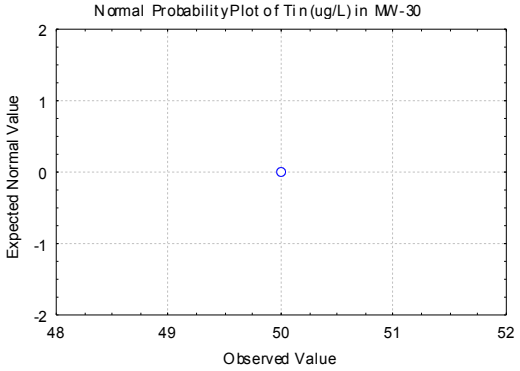


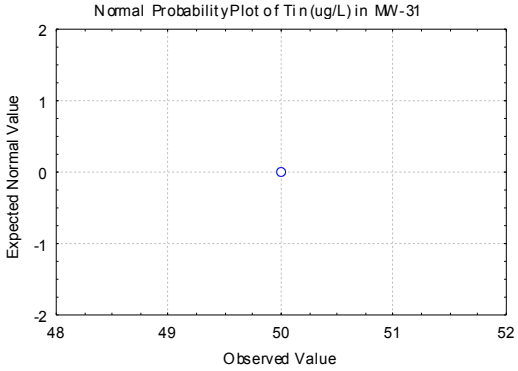


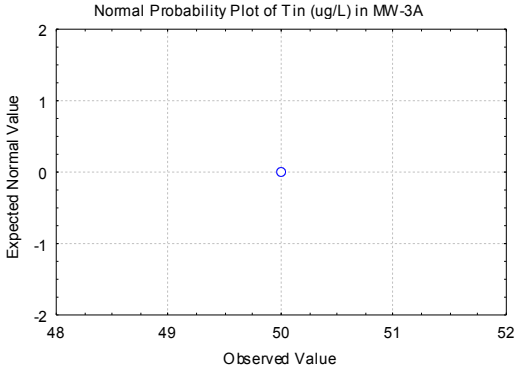




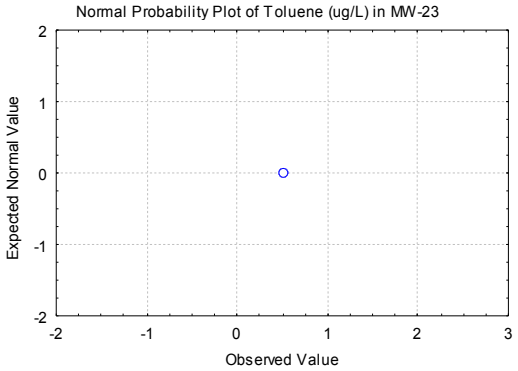


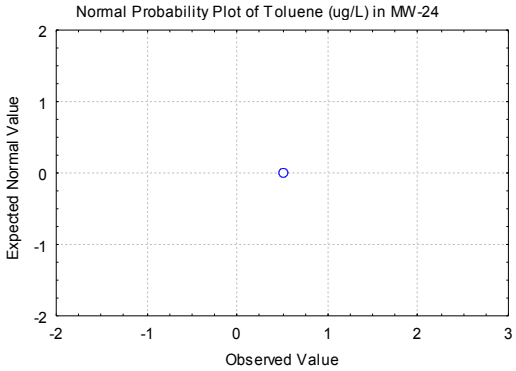


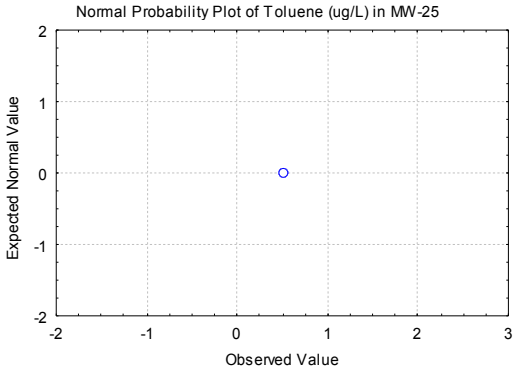


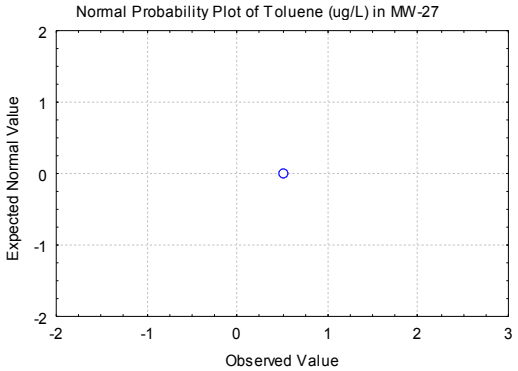


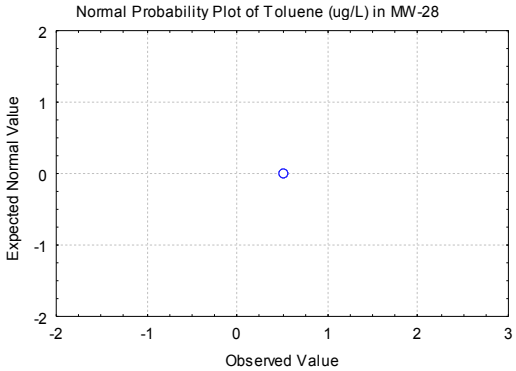
Toluene Probability Plots

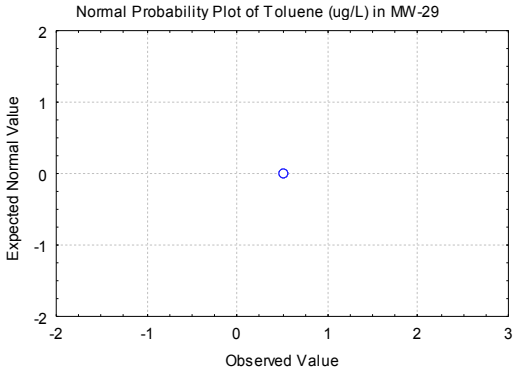


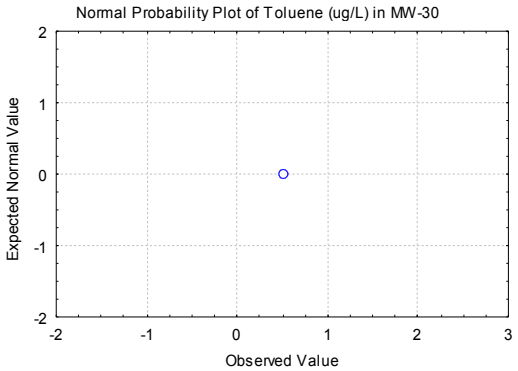


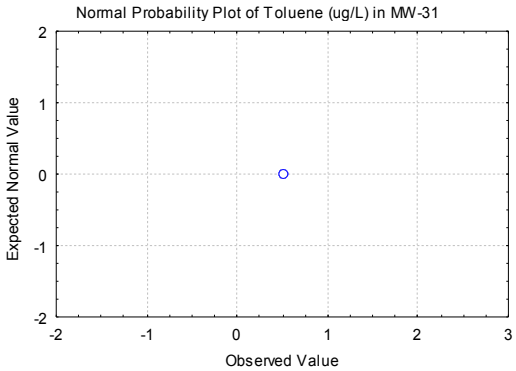


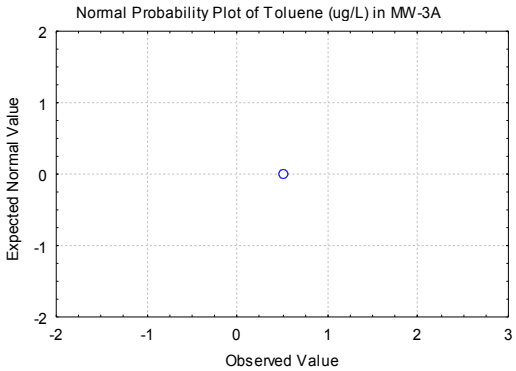




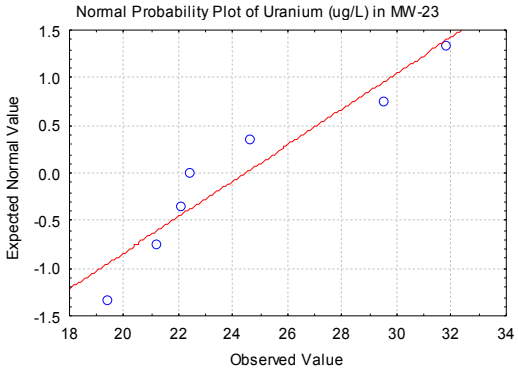


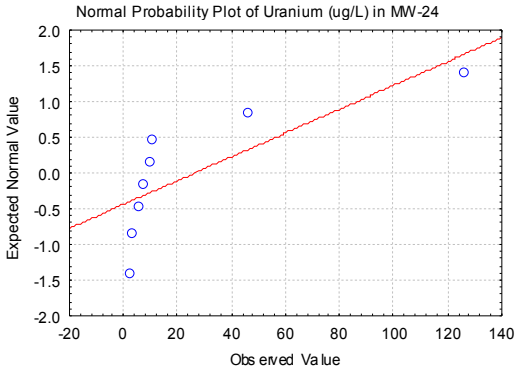


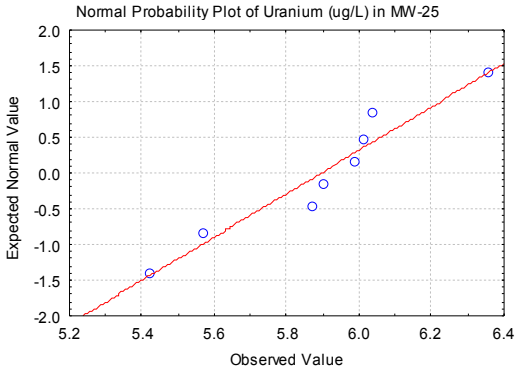


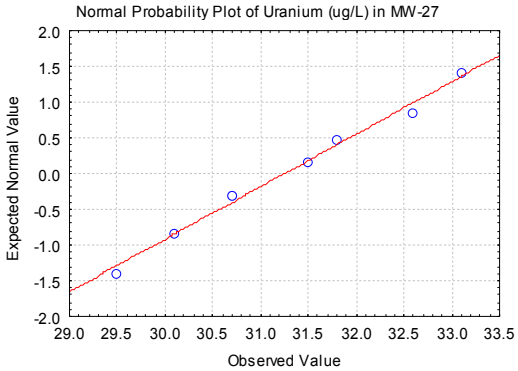


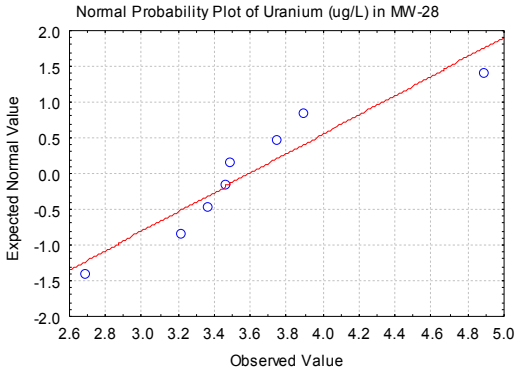
Uranium Probability Plots

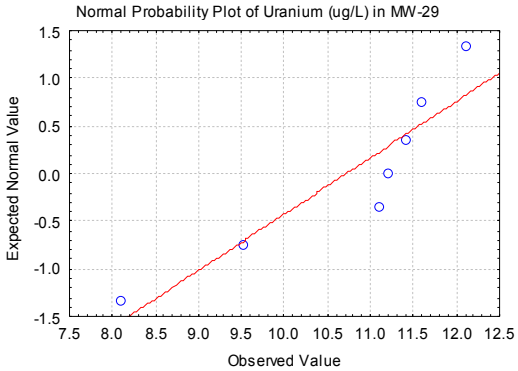


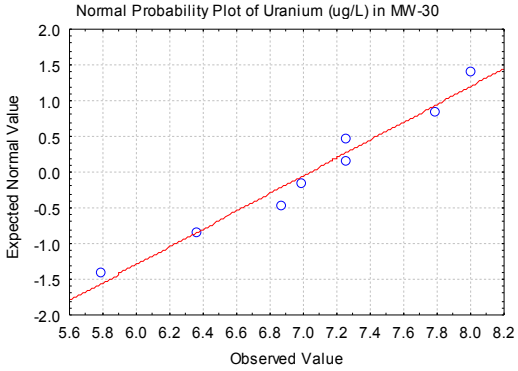


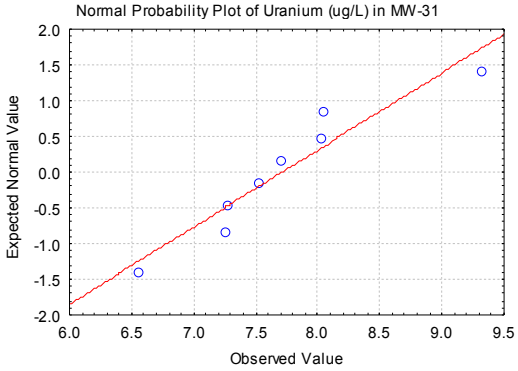


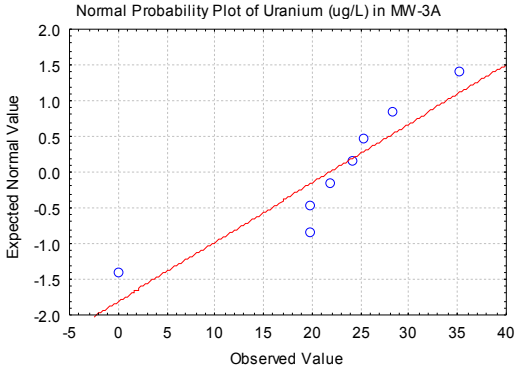




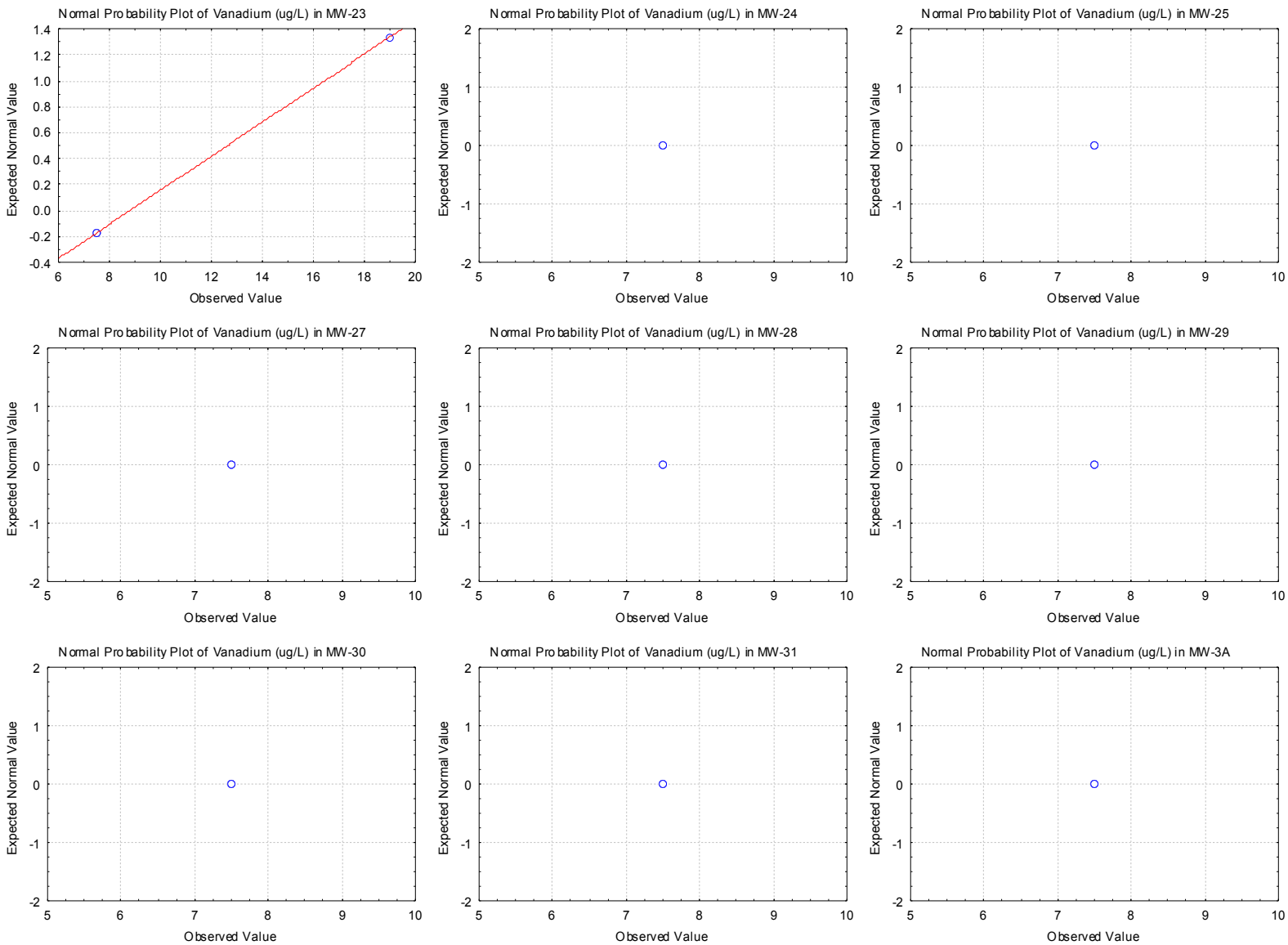




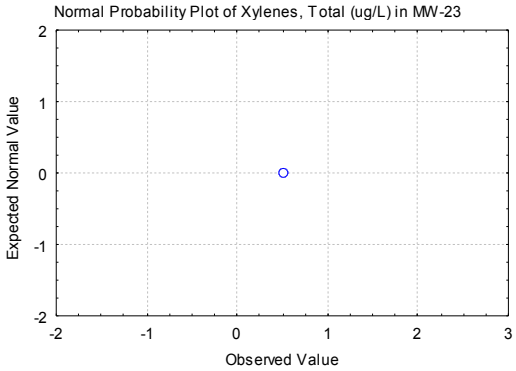


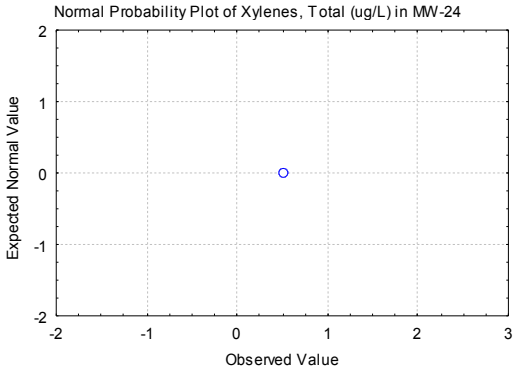


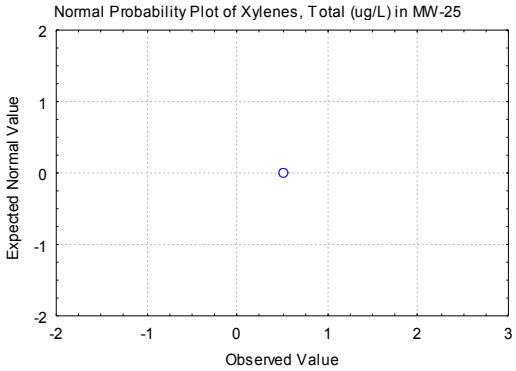
Vanadium Probability Plots

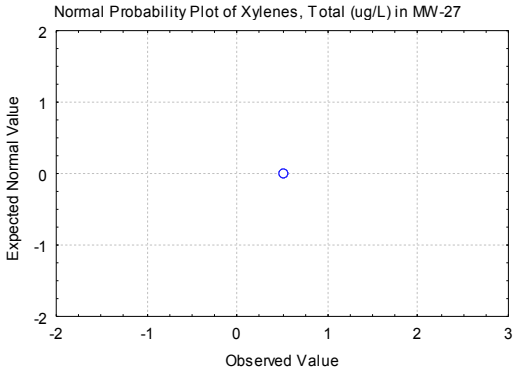


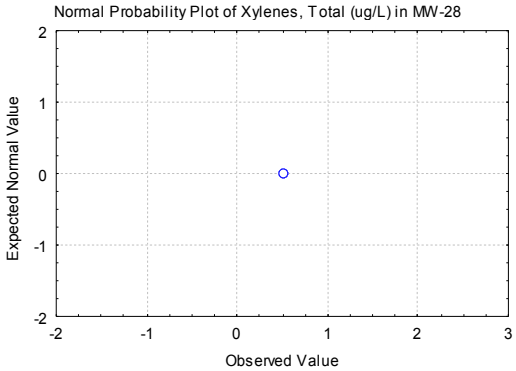
Xylenes Probability Plots

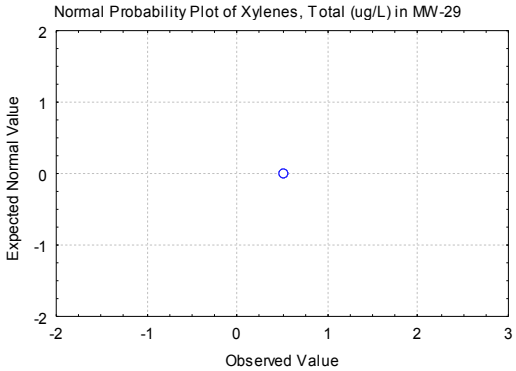


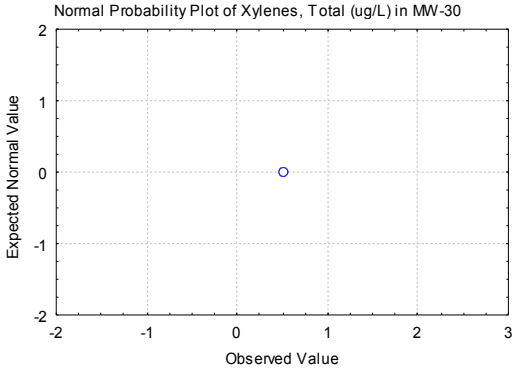


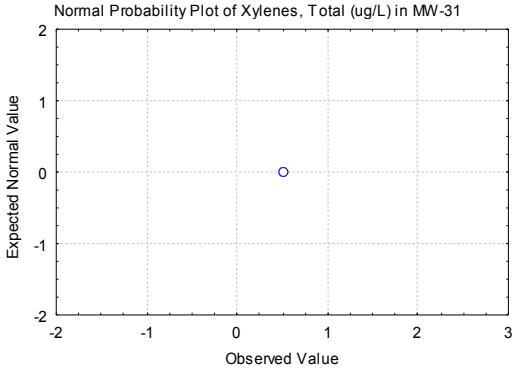


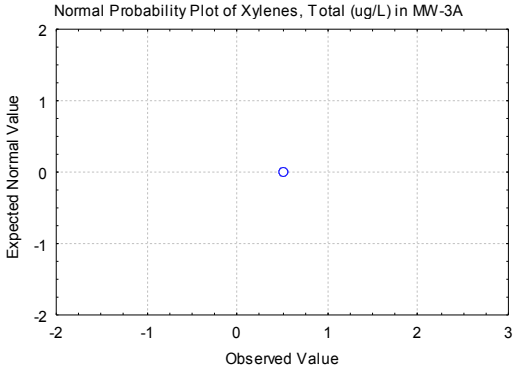




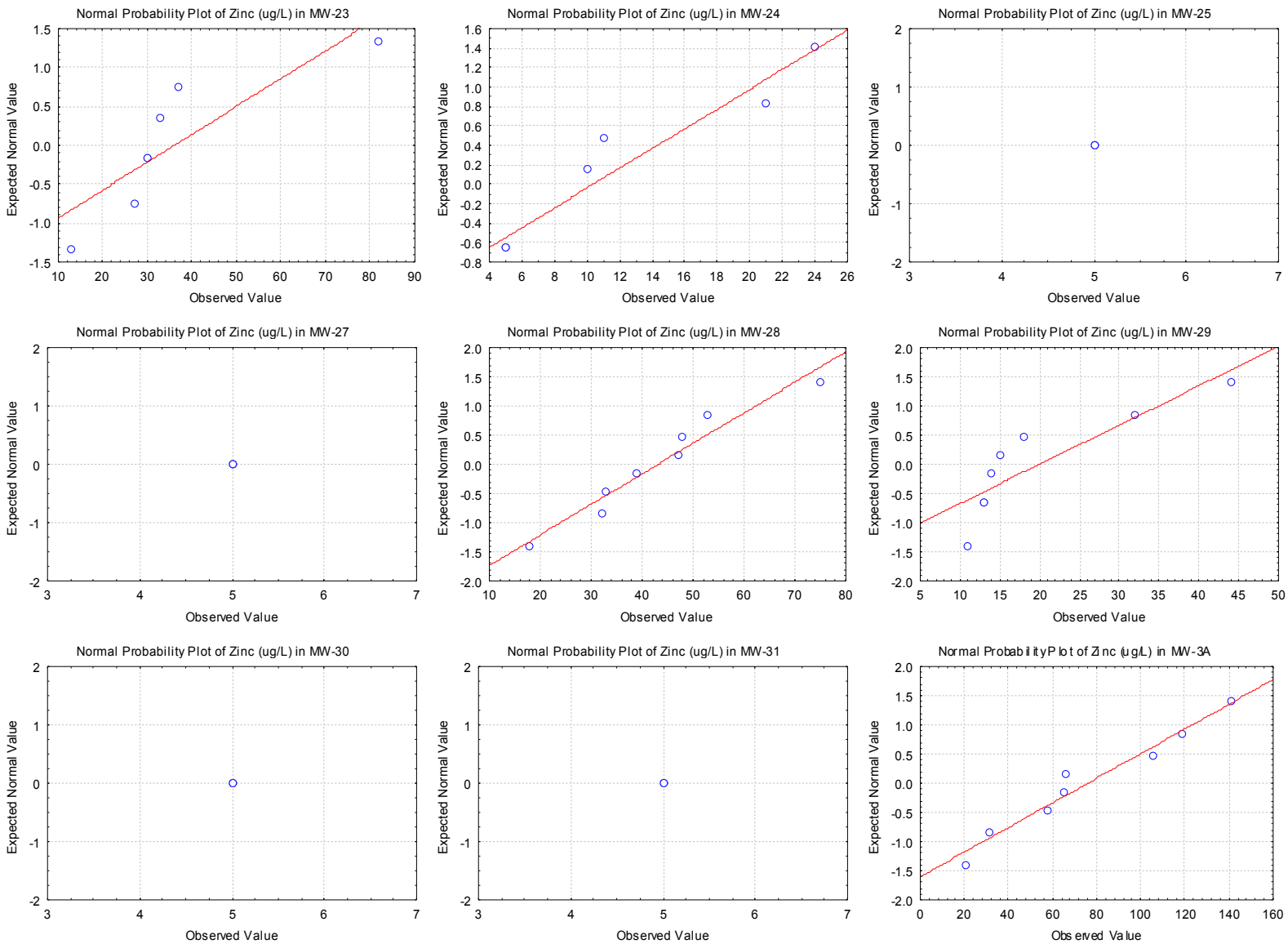




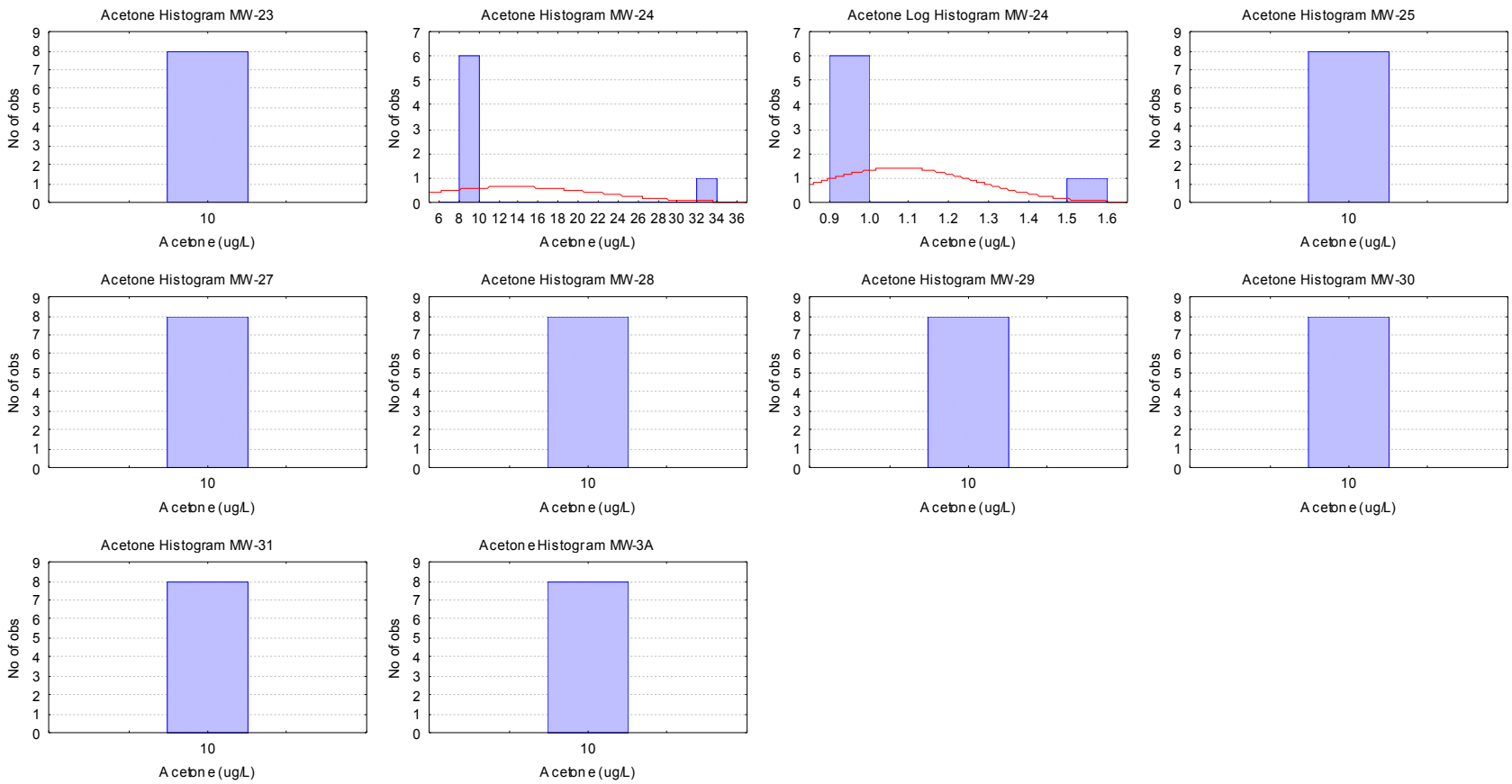




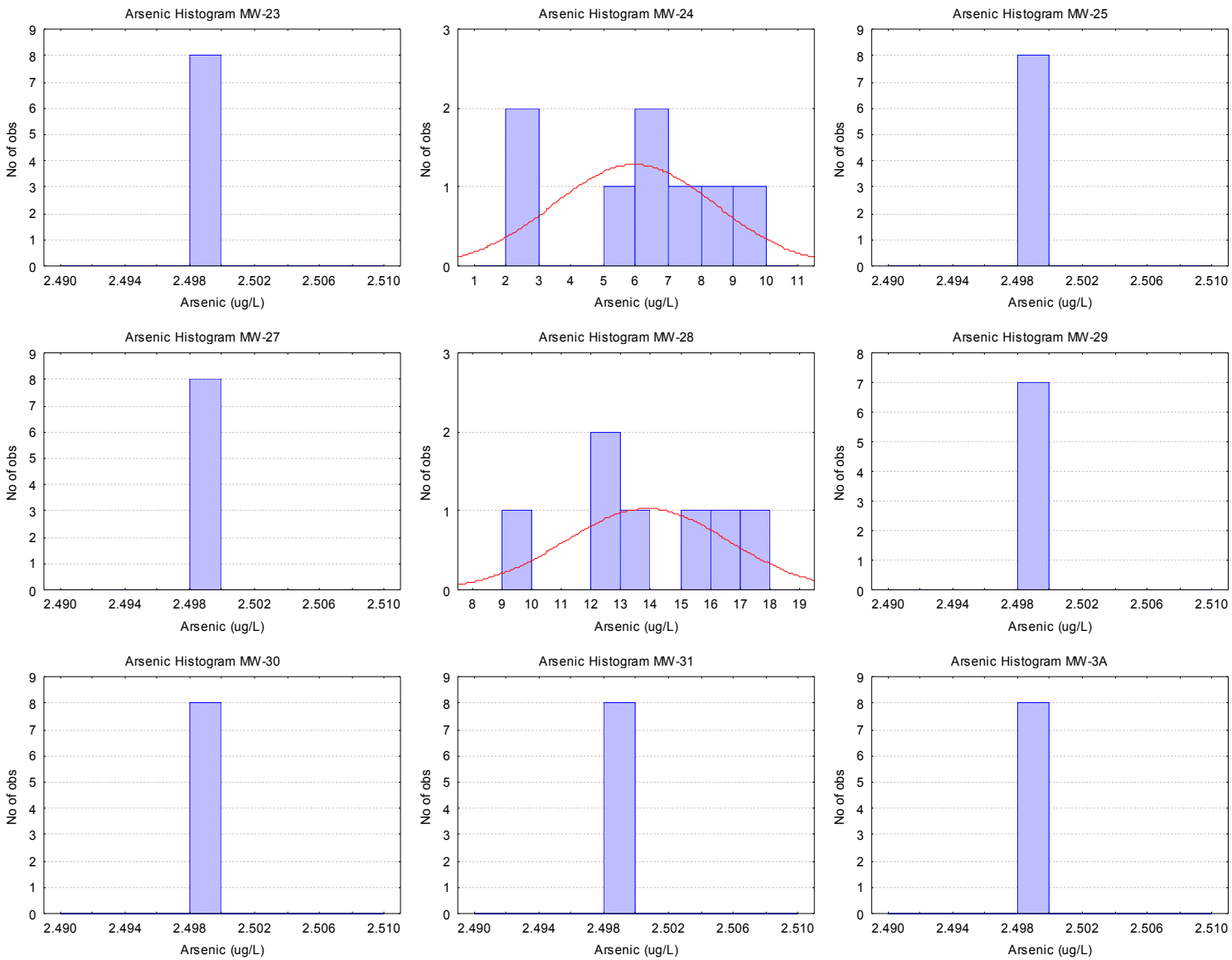
Zinc Probability Plot



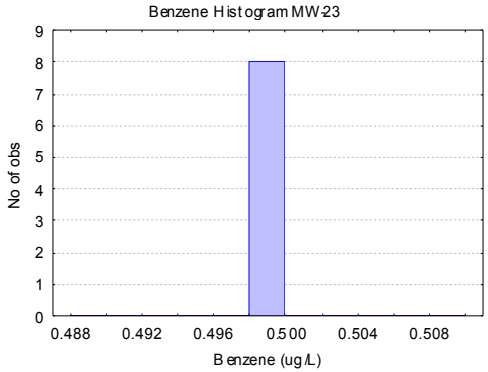
Acetone Histograms

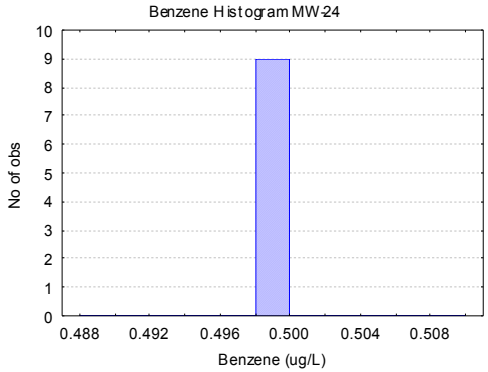


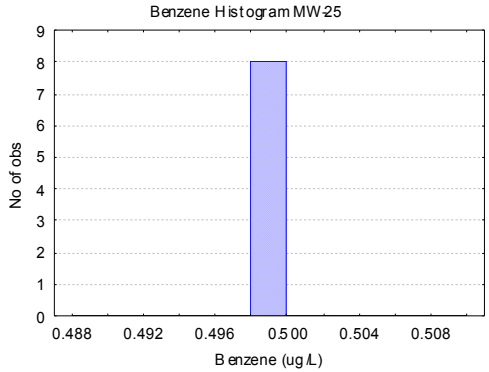
Arsenic Histograms

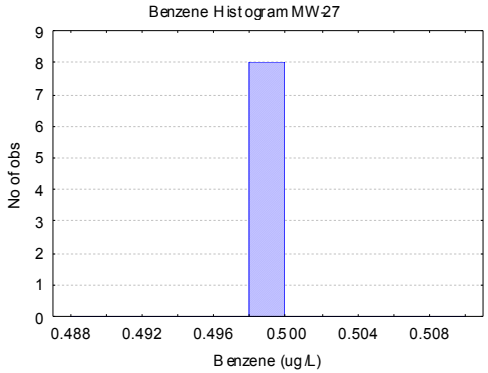


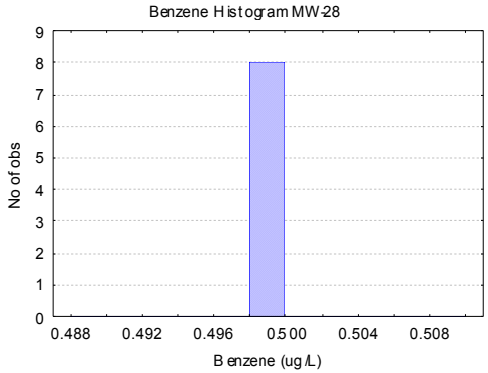
Benzene Histograms

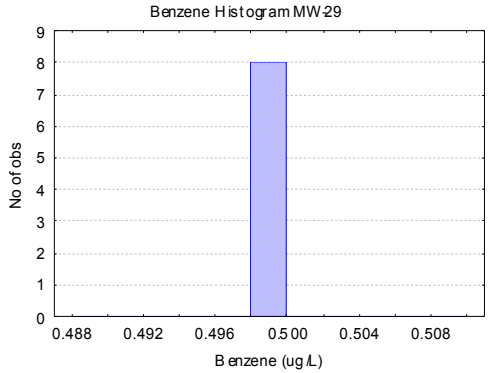


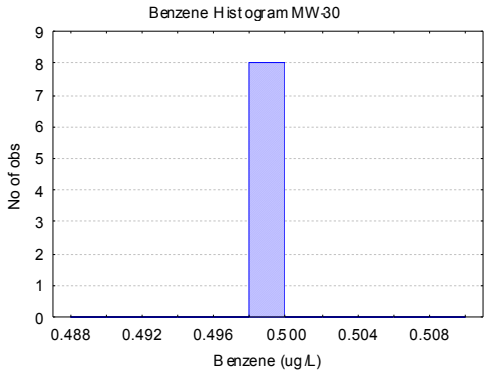


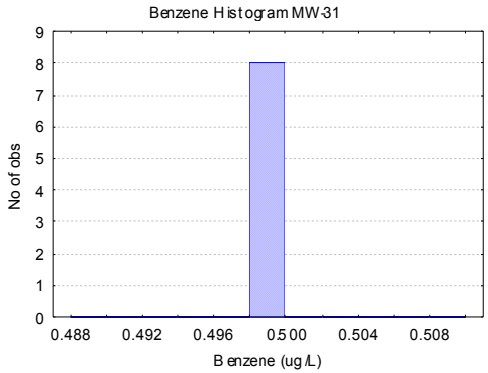


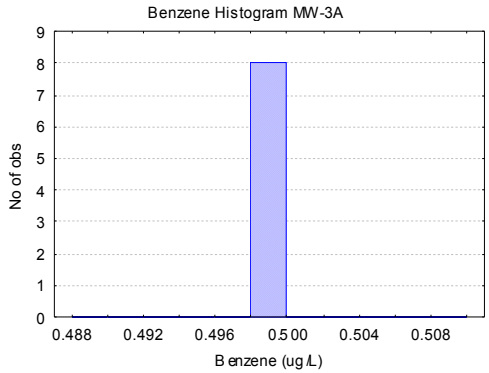




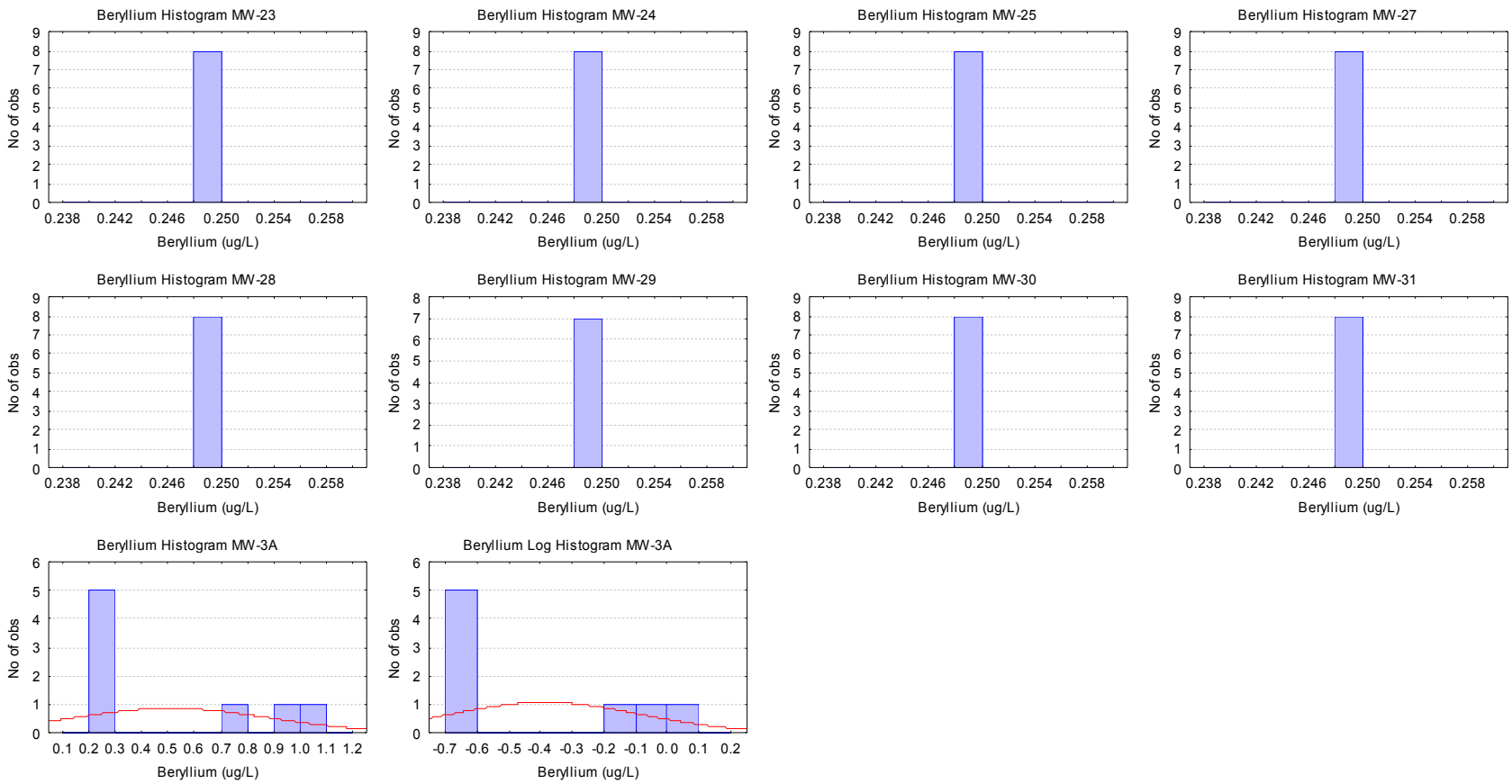




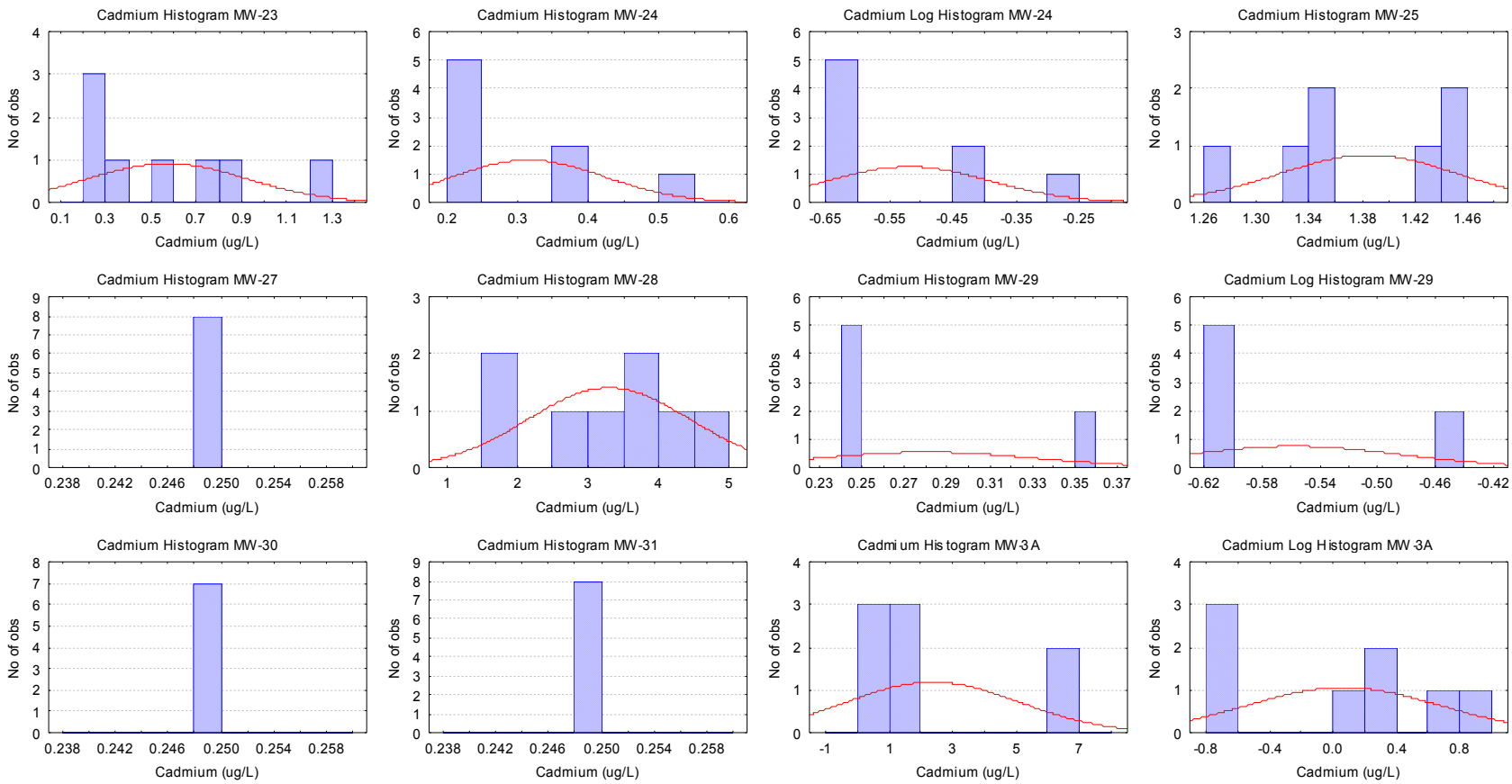




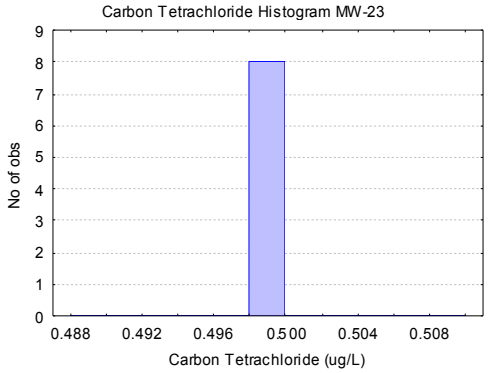
Beryllium Histograms

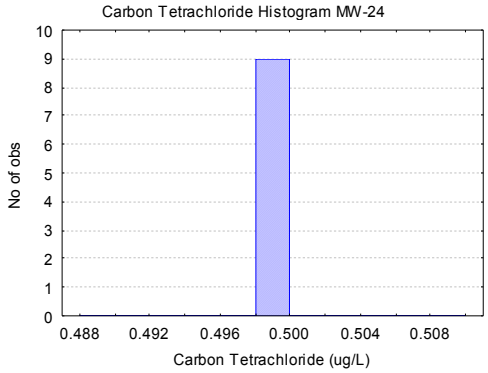


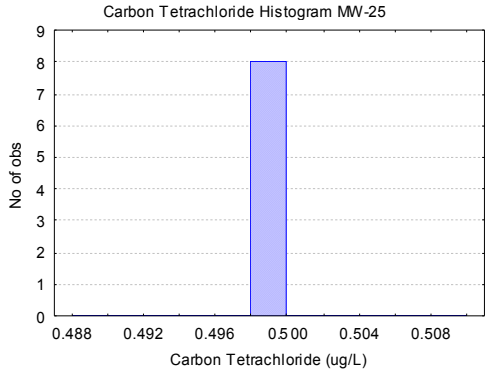
Cadmium Histograms

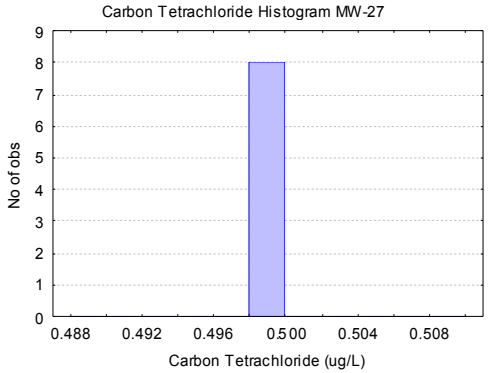


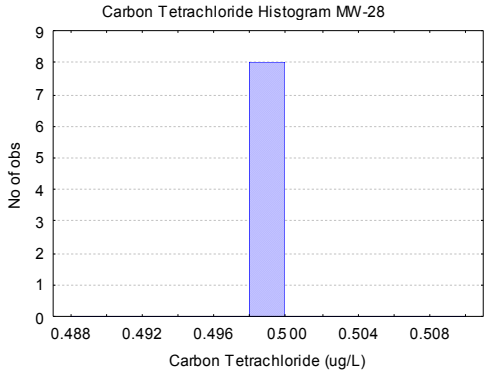
Carbon Tetrachloride Histograms

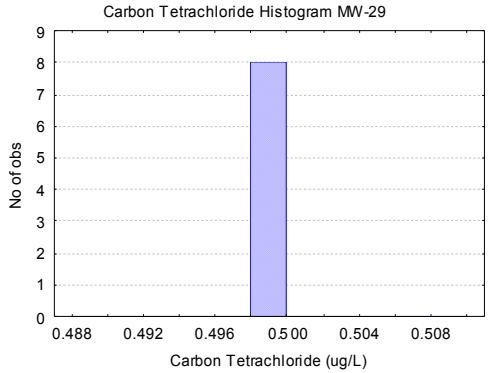


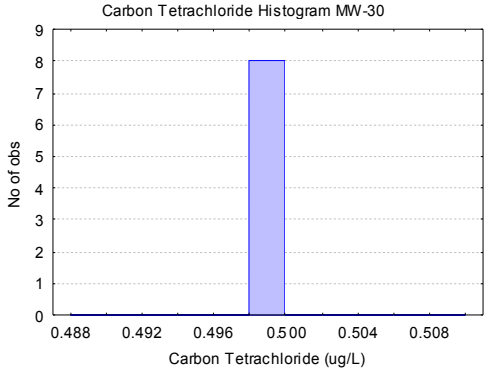


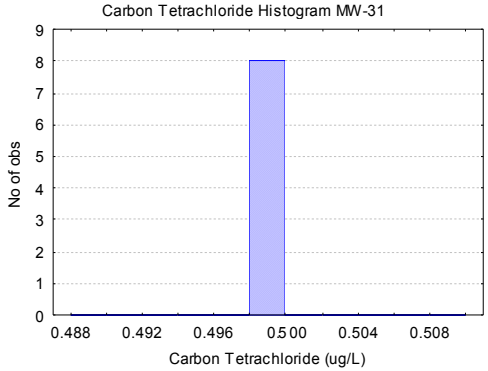


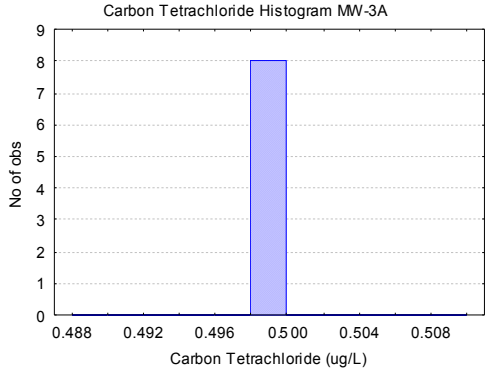




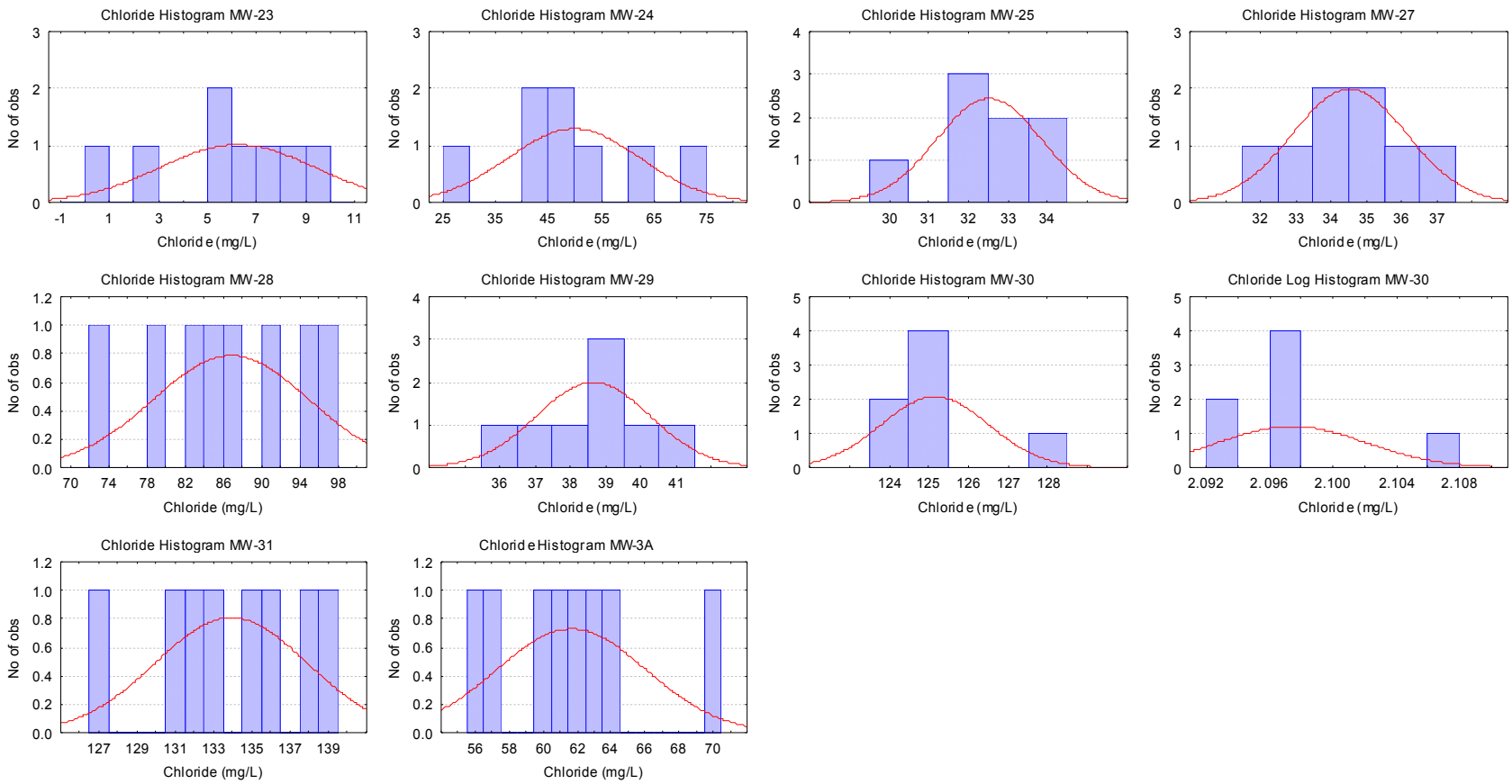




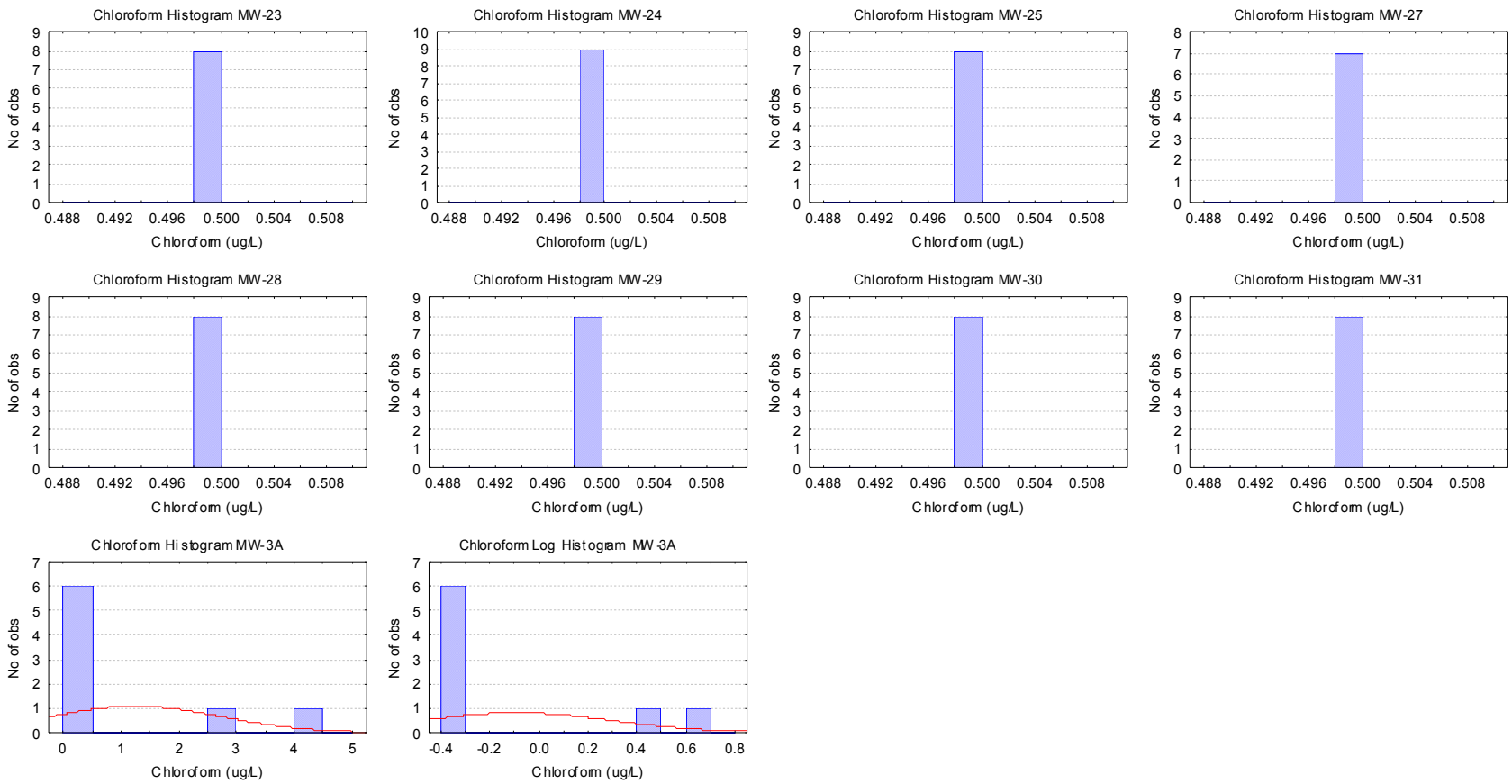




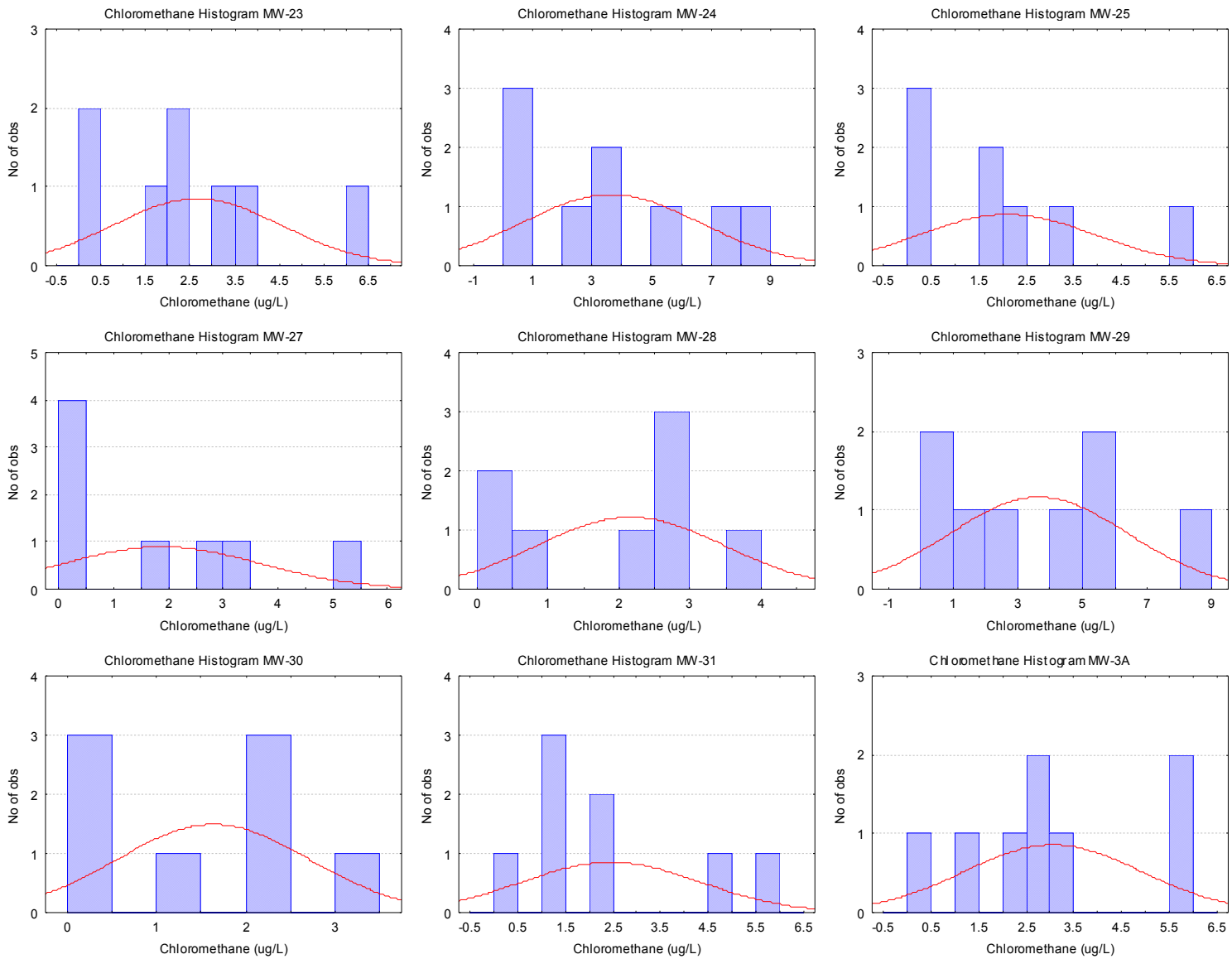
Chloride Histograms



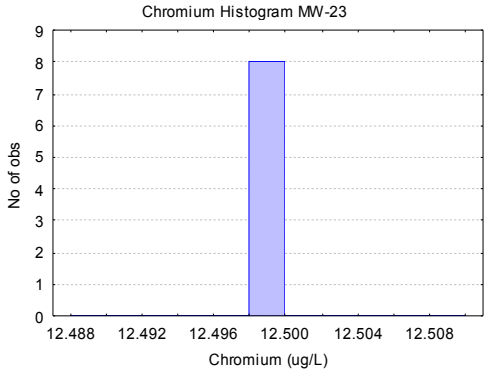
Chloroform Histograms

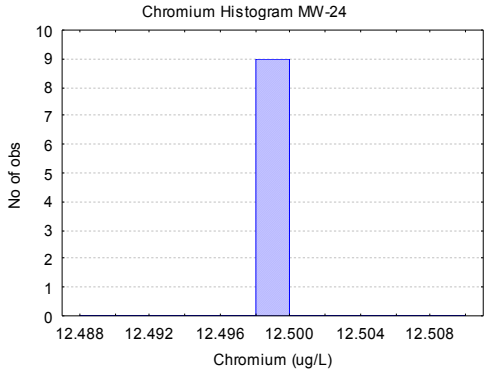


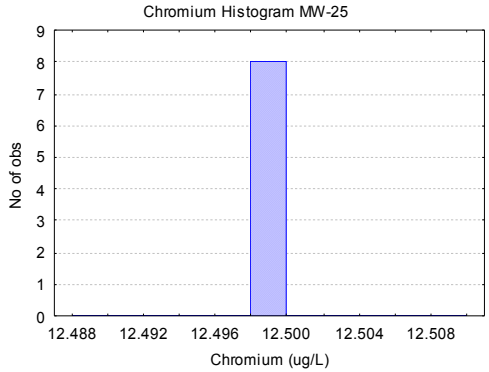
Chloromethane Histograms

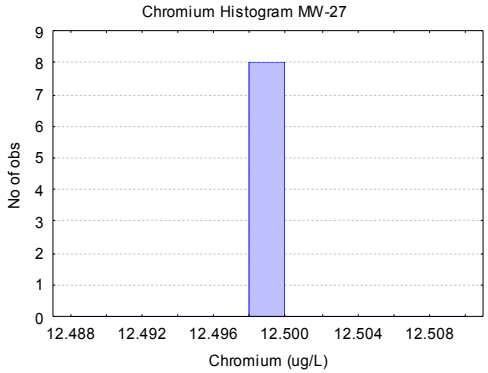


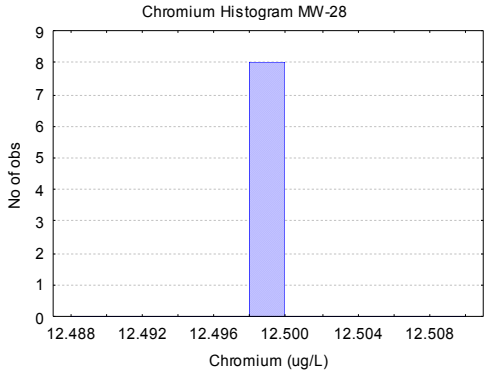
Chromium Histograms

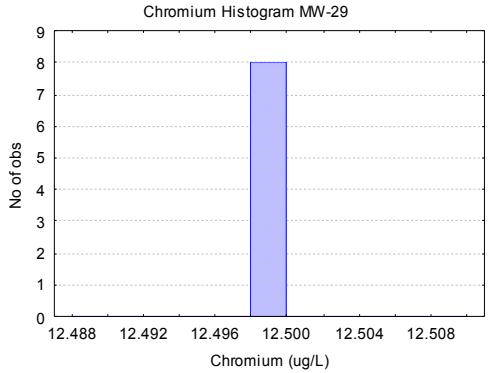


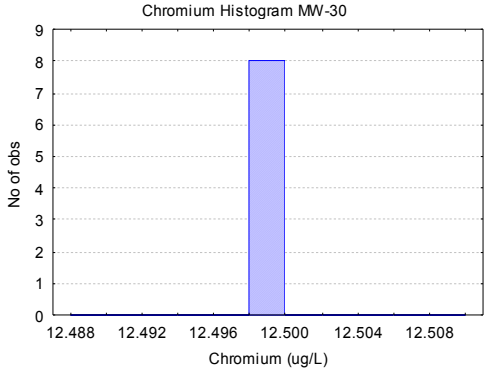


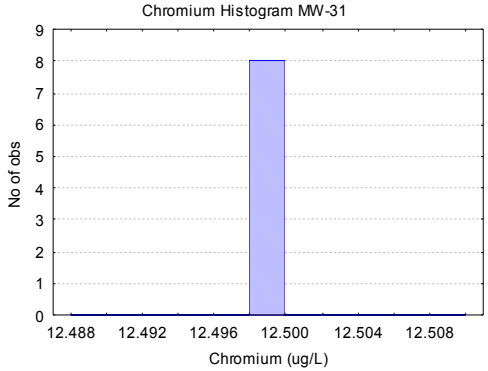


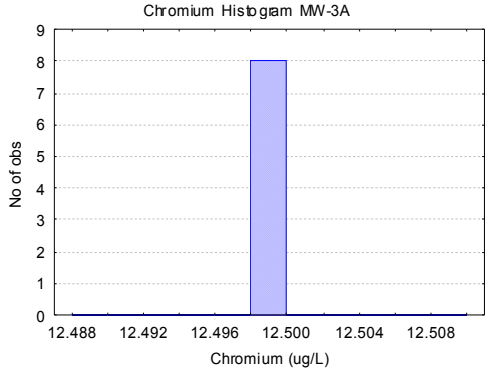




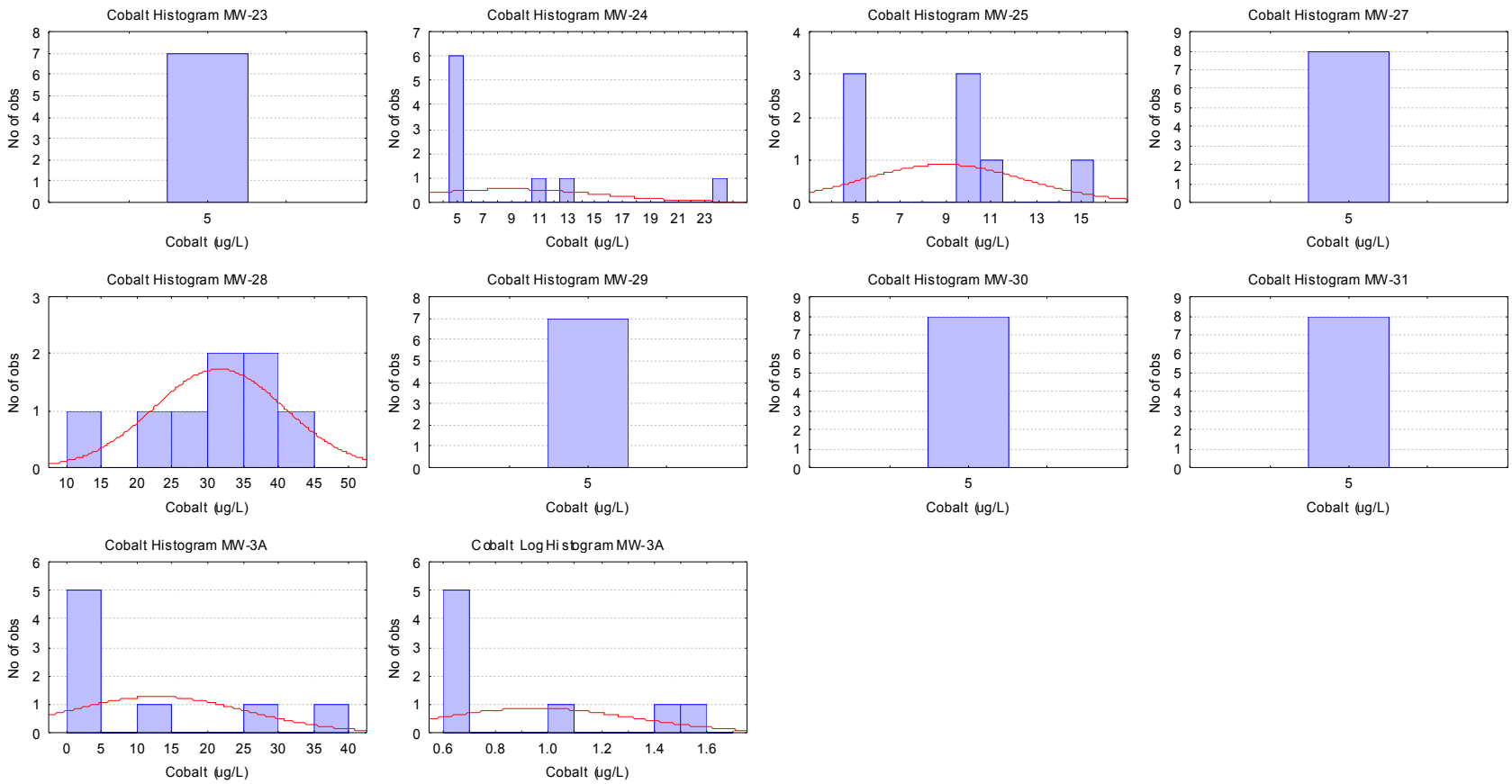




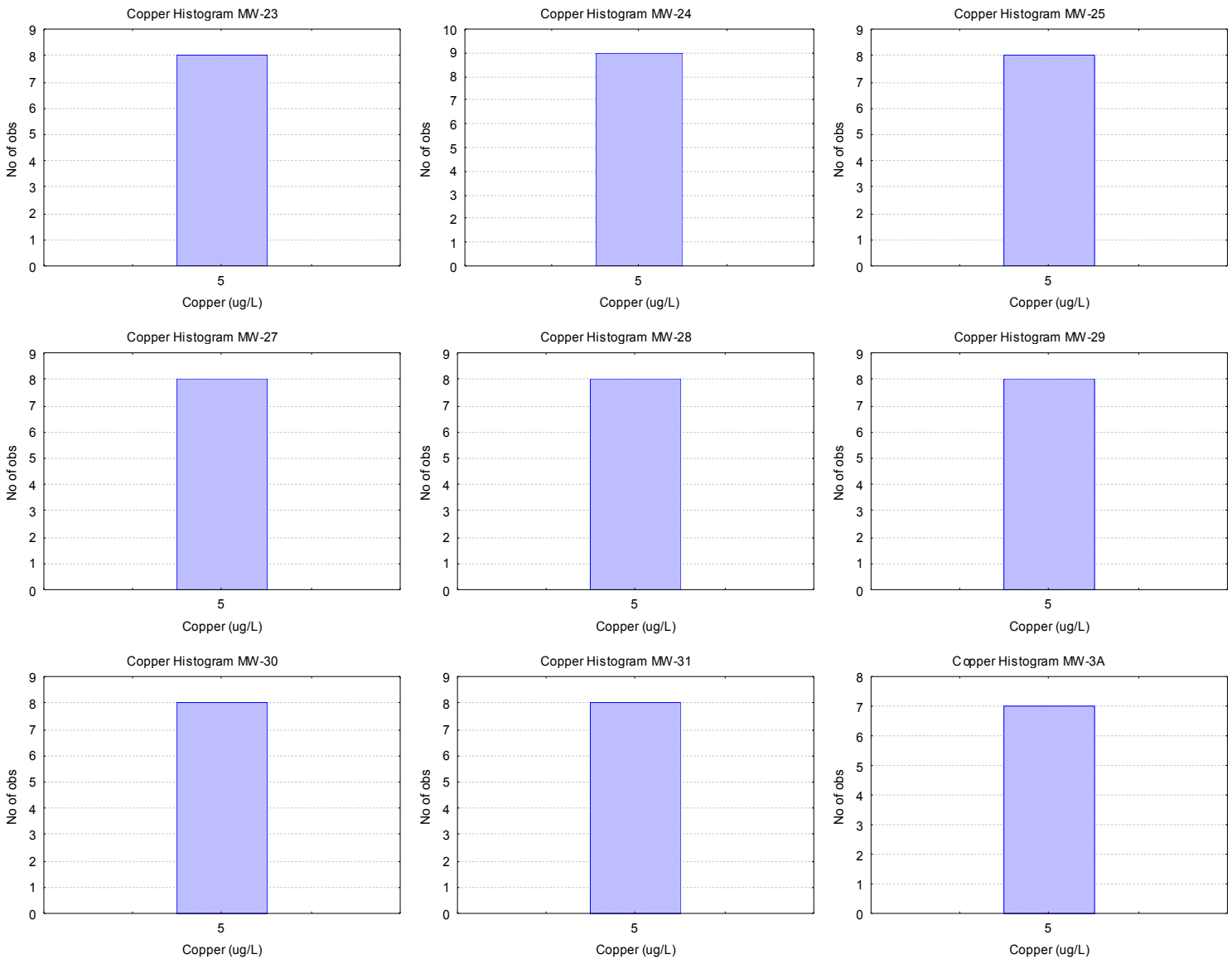




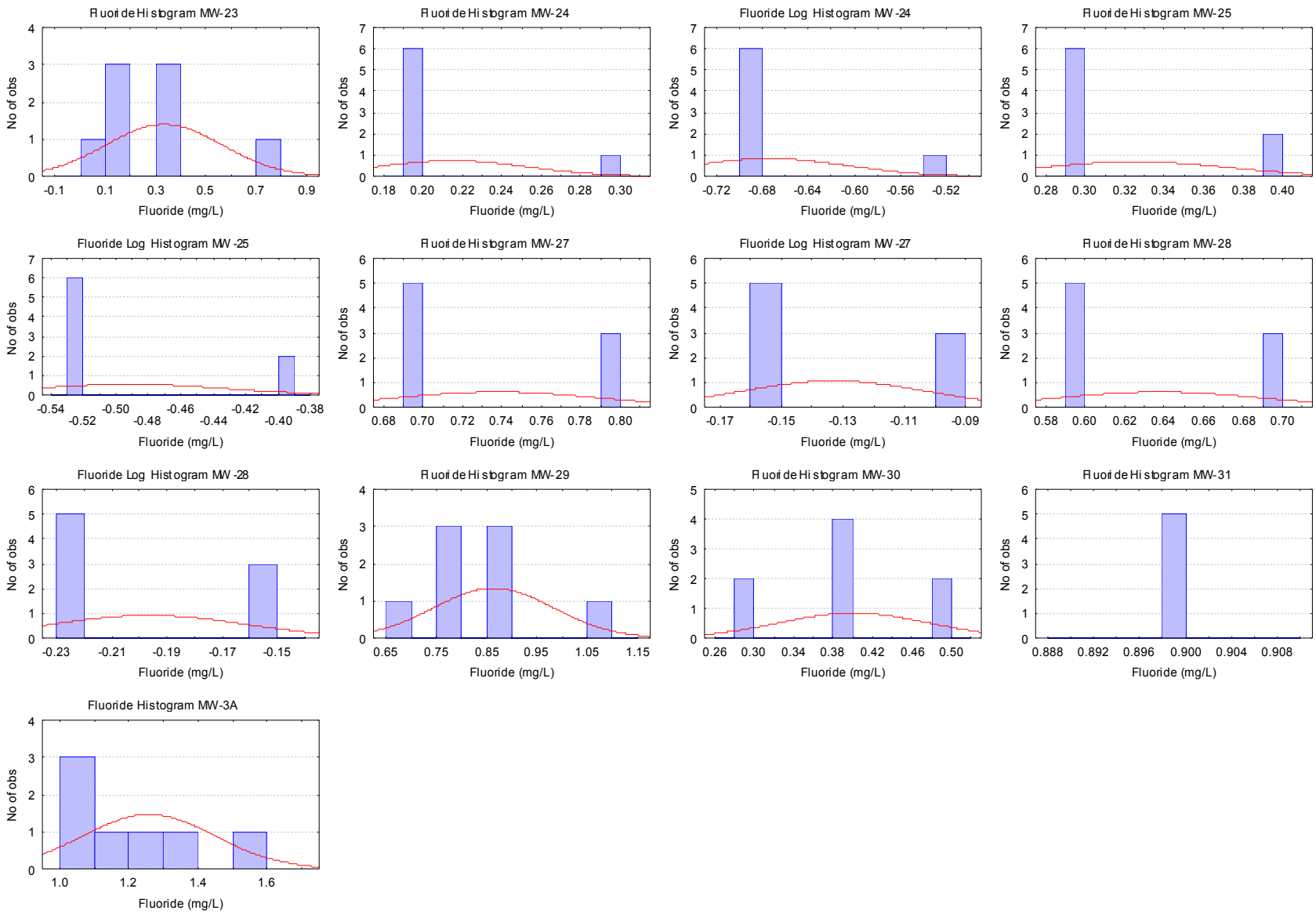
Cobalt Histograms



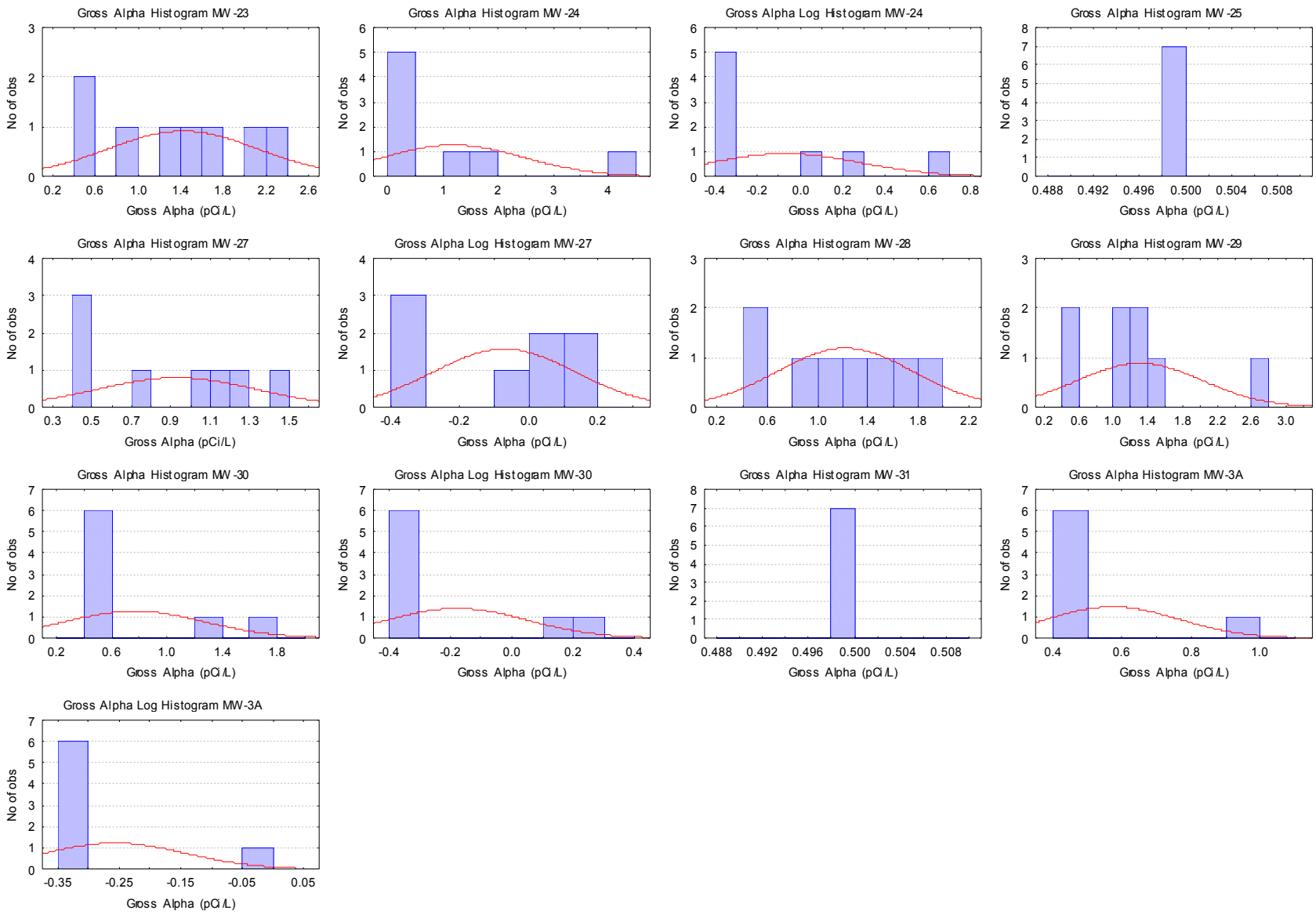
Copper Histograms



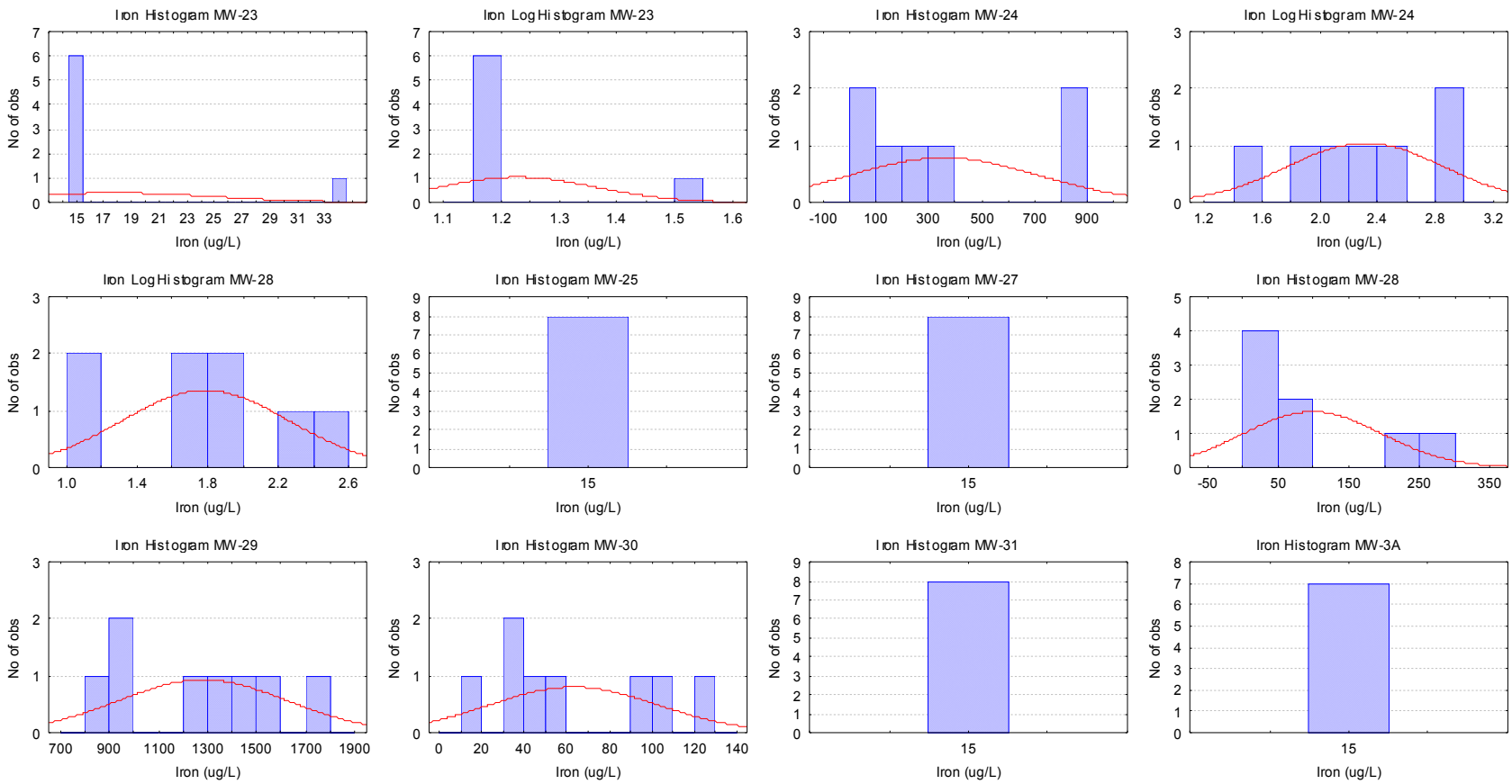
Fluoride Histograms



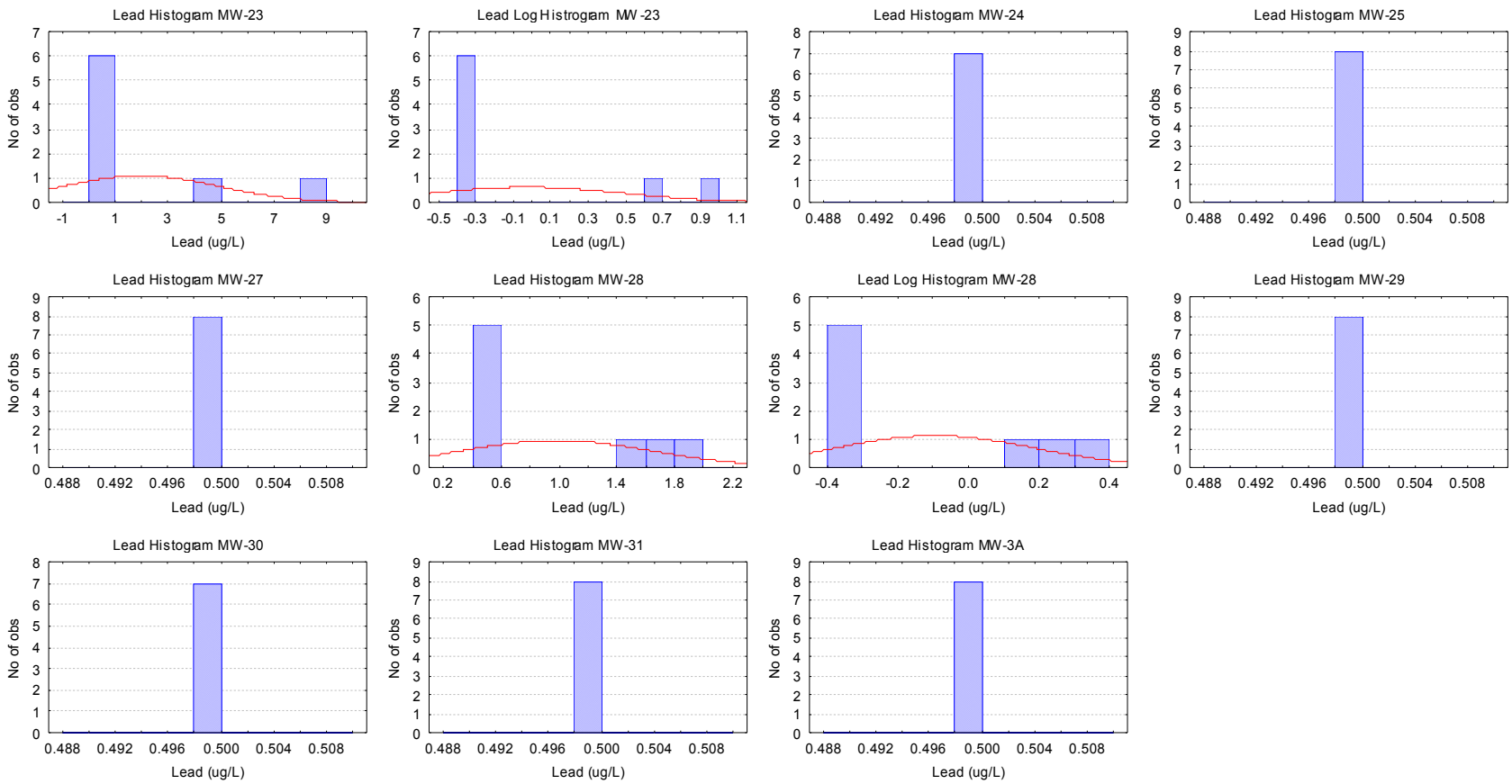
Gross Alpha Histograms



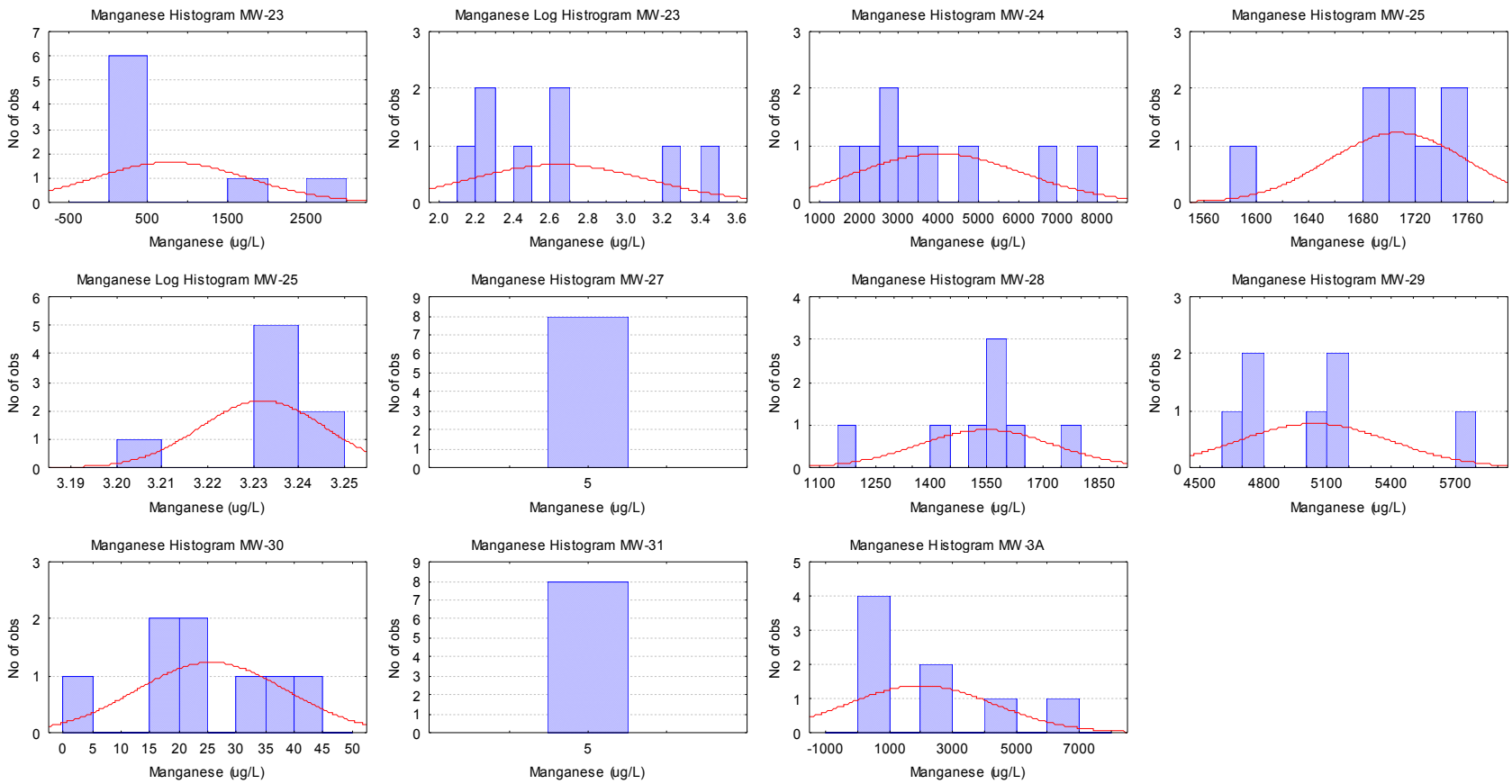
Iron Histograms



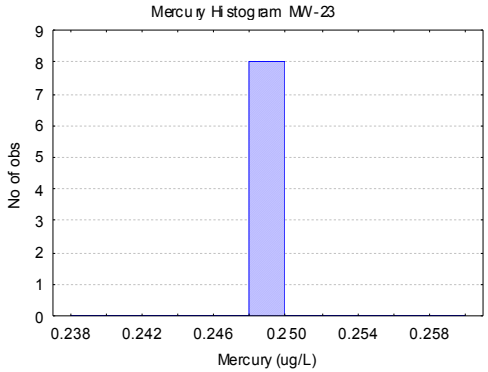
Lead Histograms

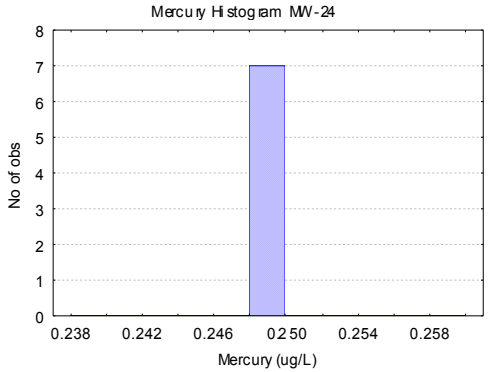


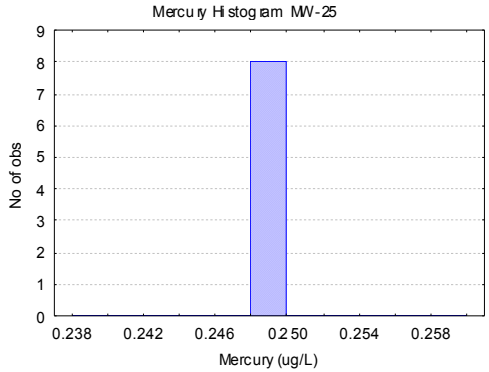
Manganese Histograms

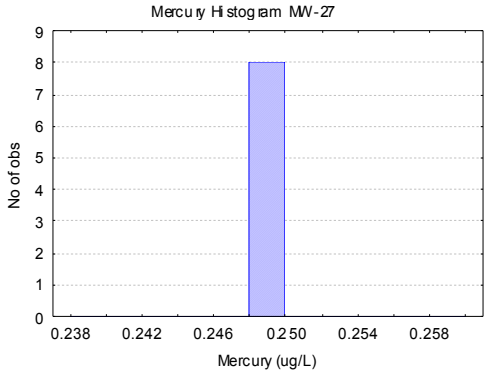


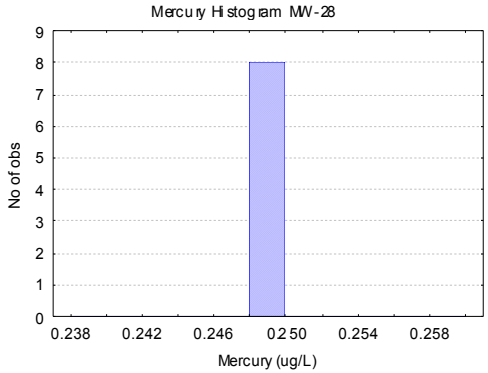
Mercury Histograms

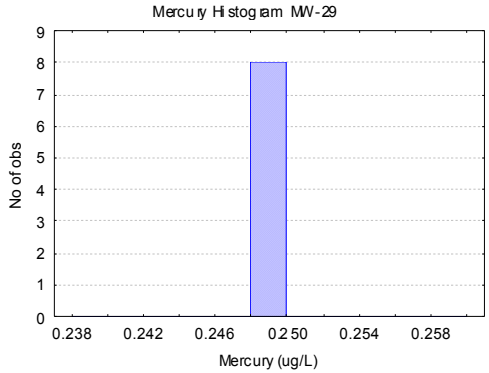


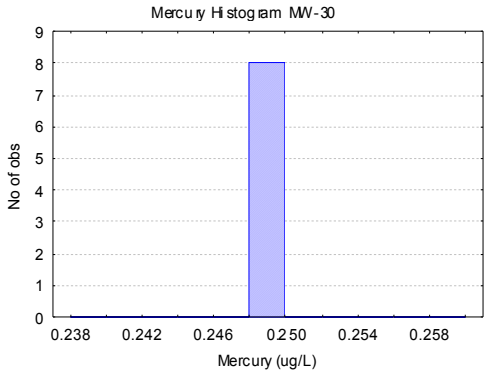


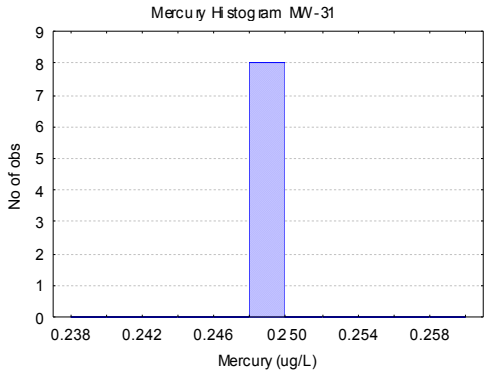


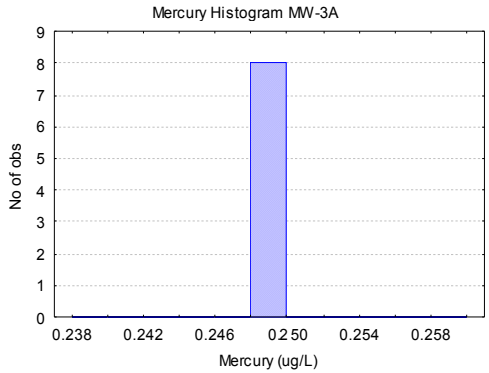




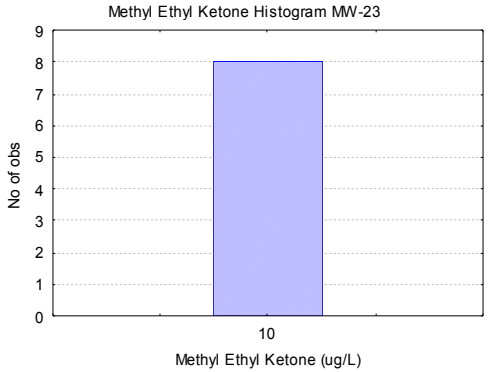


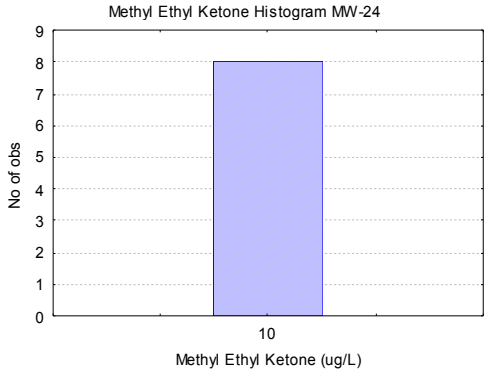


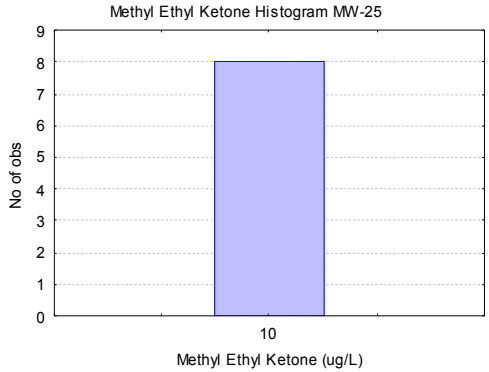


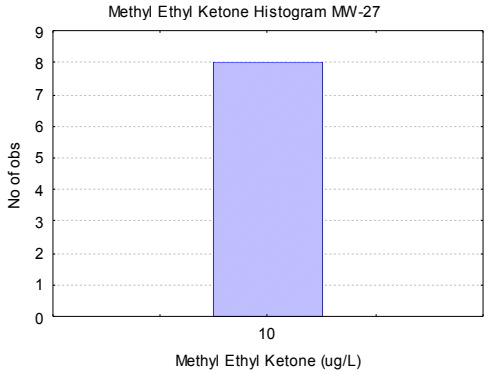


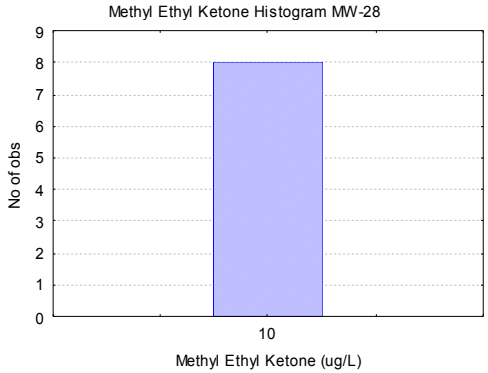
Methyl Ethyl Ketone Histograms

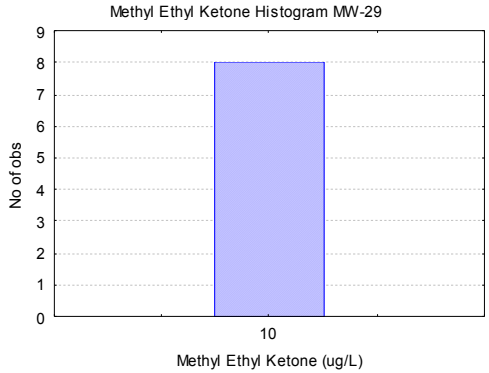


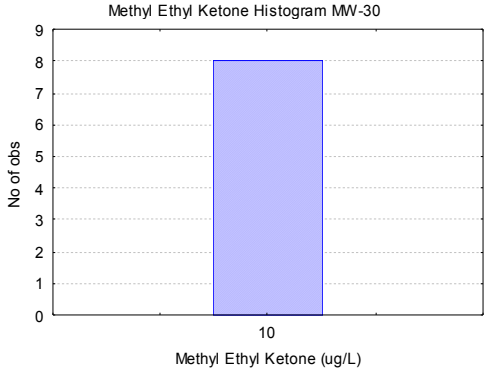


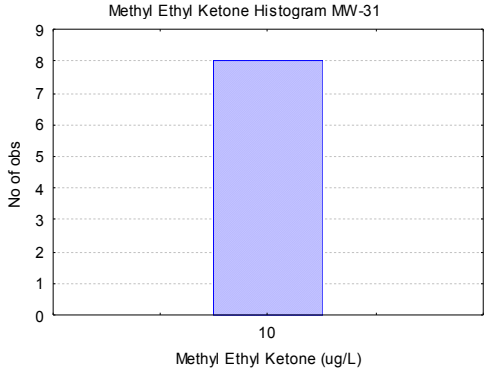


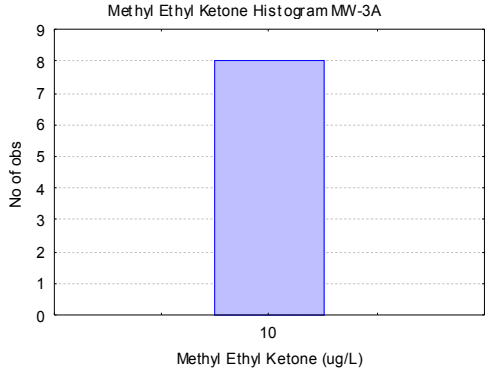




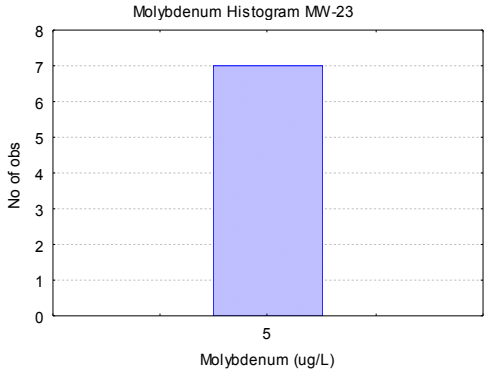


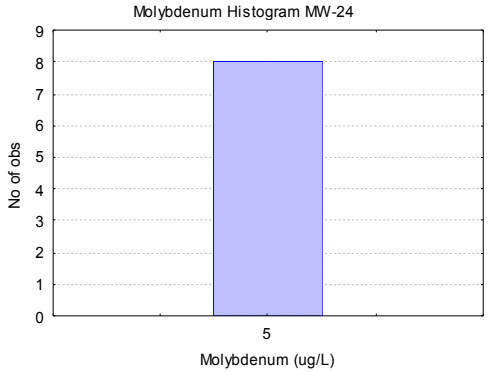


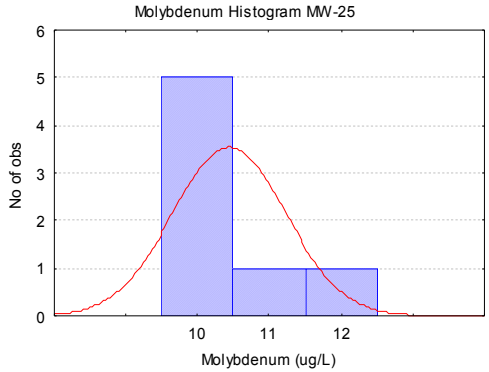


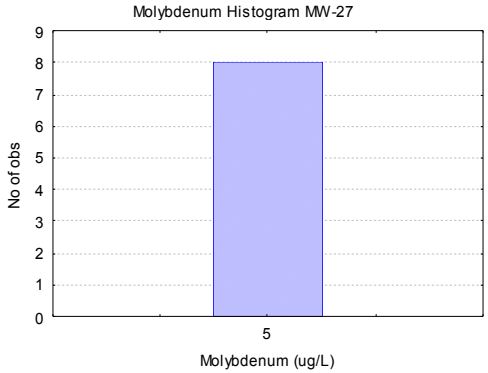


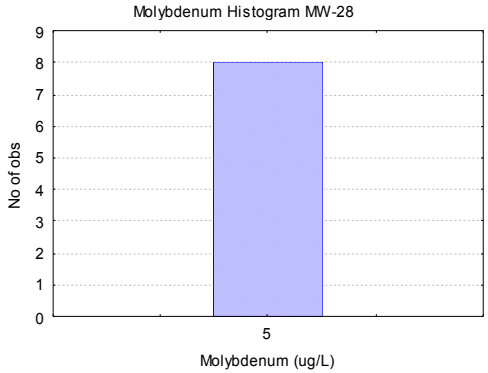
Molybdenum Histograms

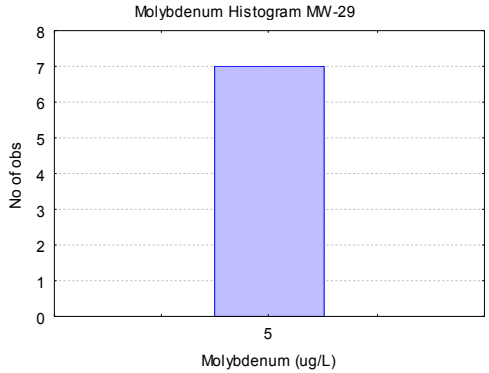


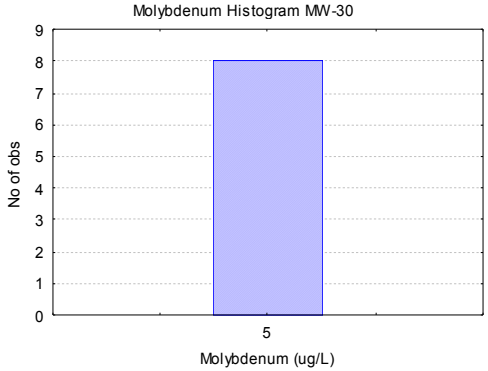


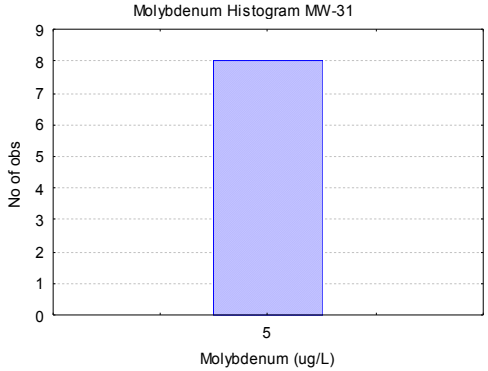


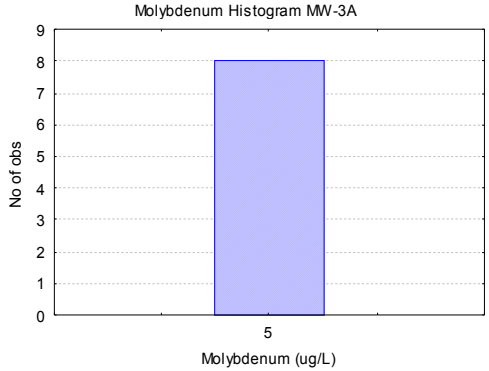




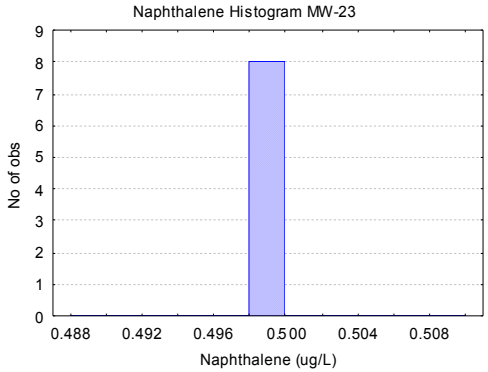


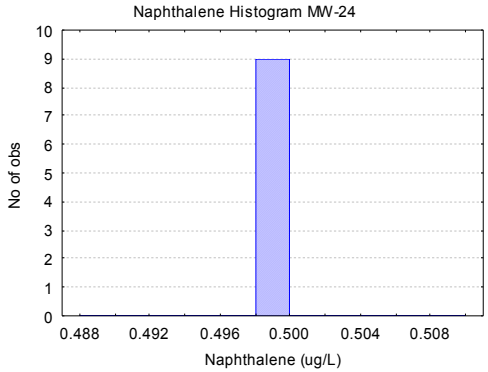


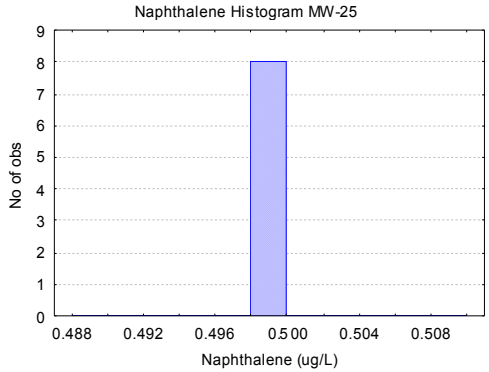


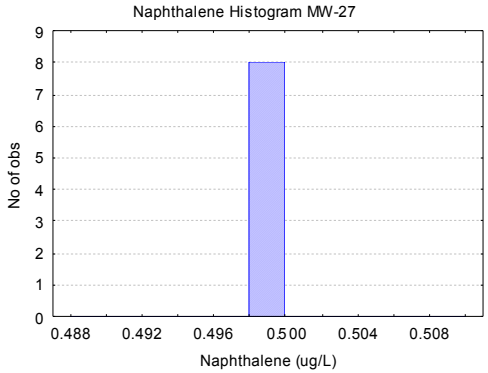


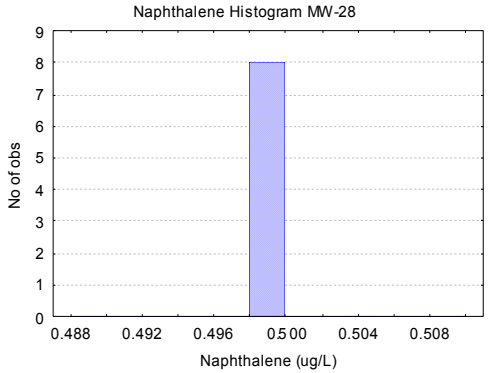
Naphthalene Histograms

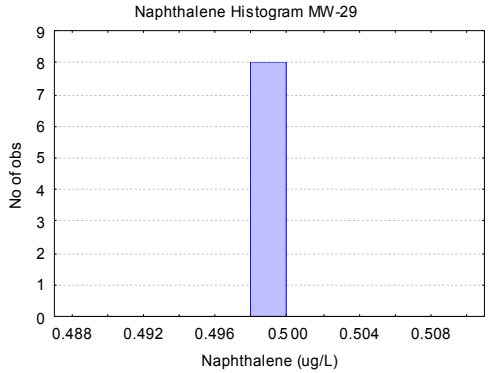


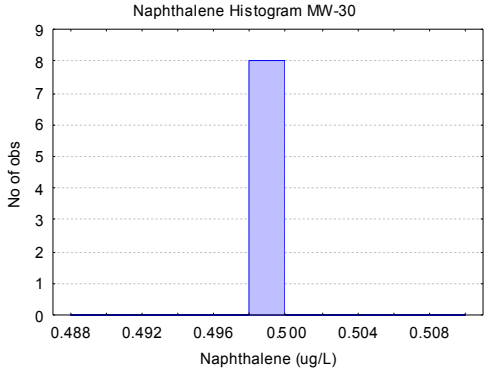


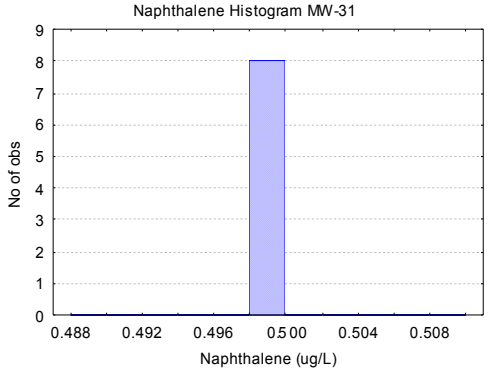


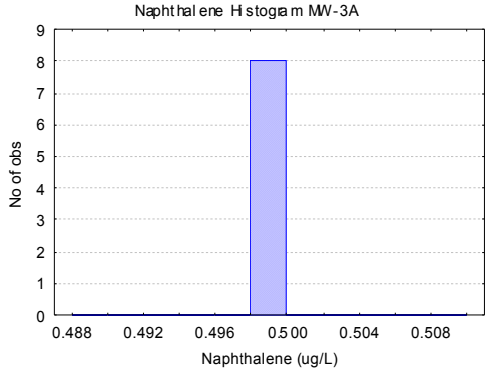




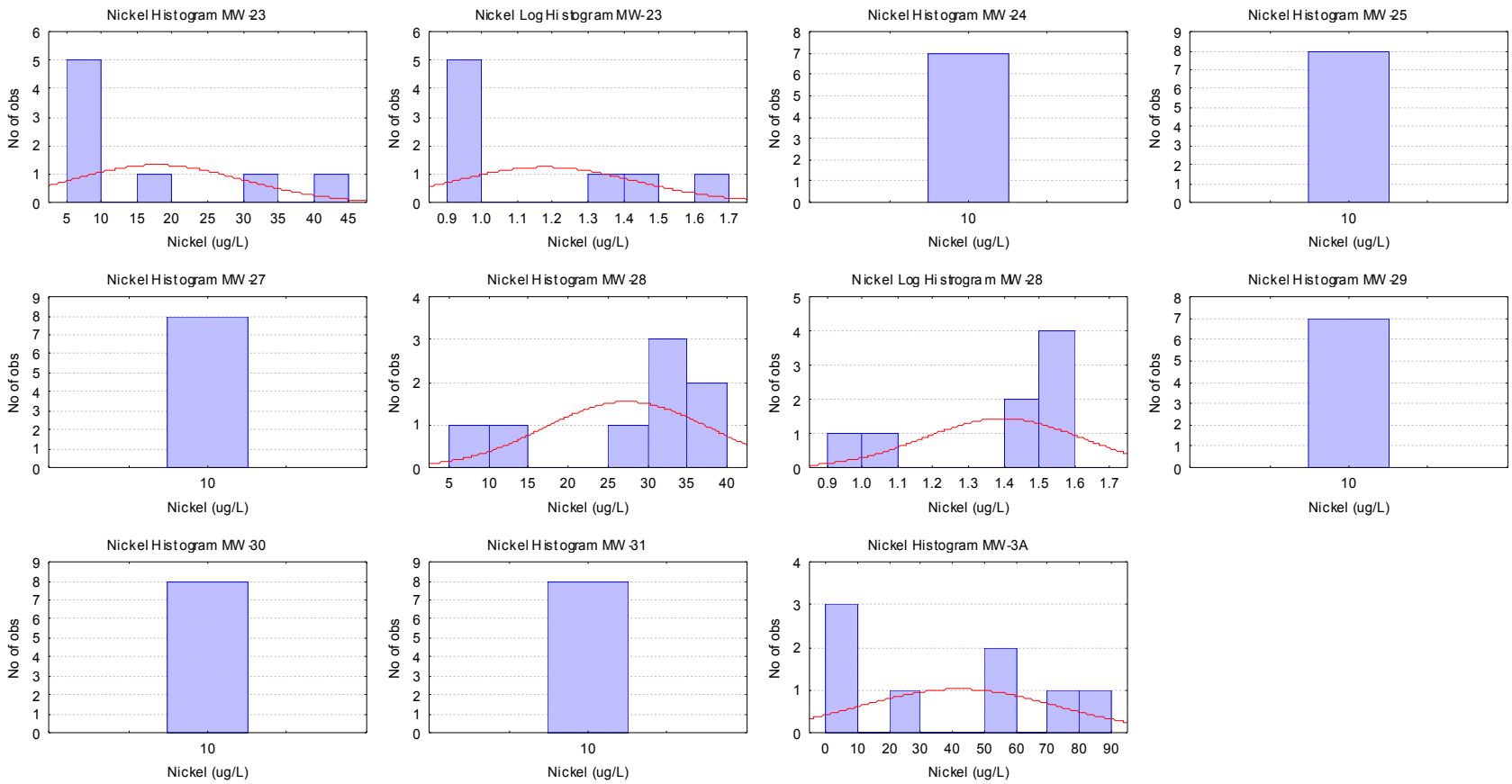




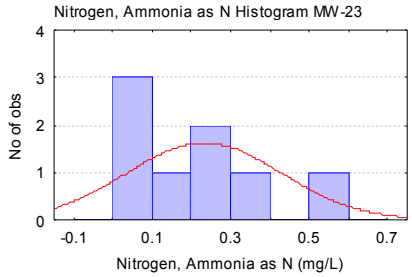


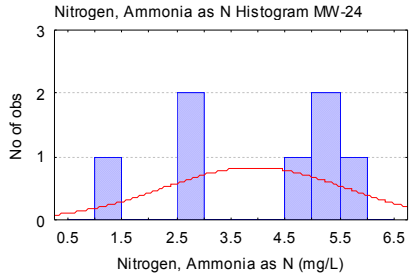


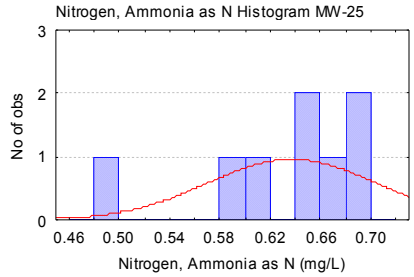
Nickel Histograms

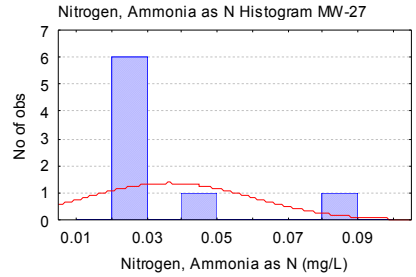


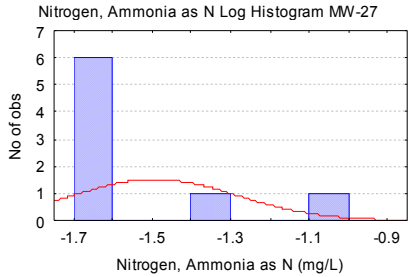
Nitrogen, Ammonia as N Histrograms

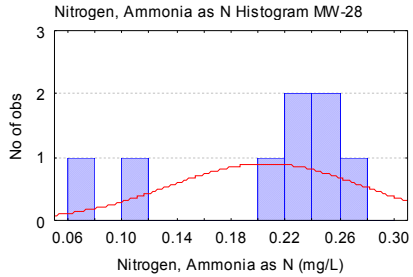


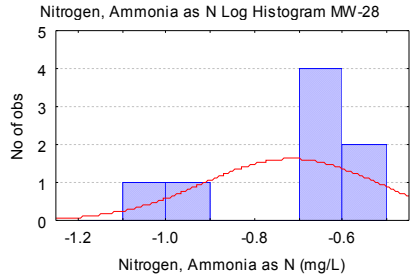


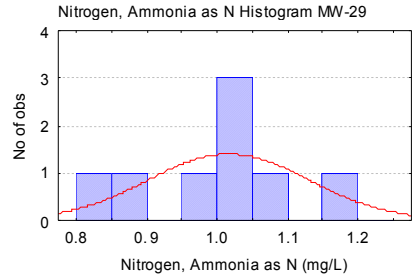


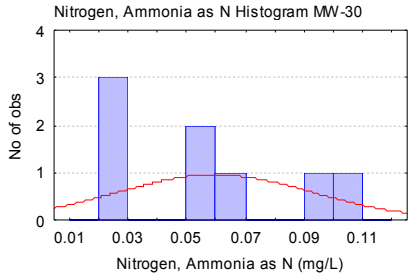


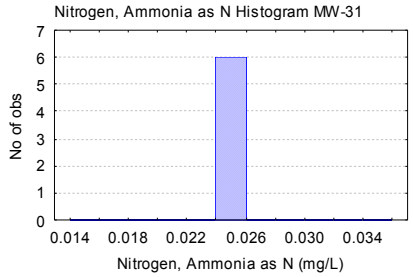


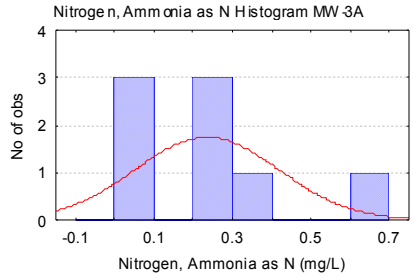




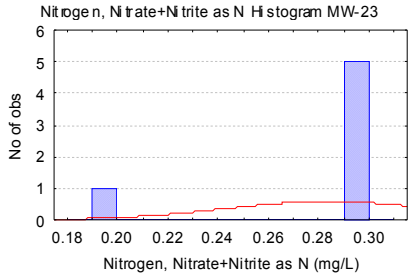


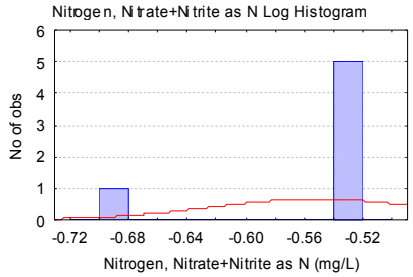


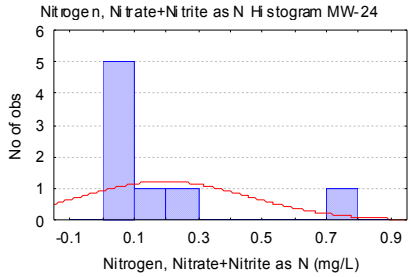


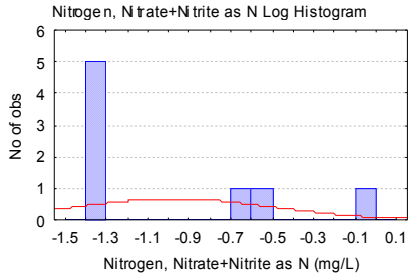


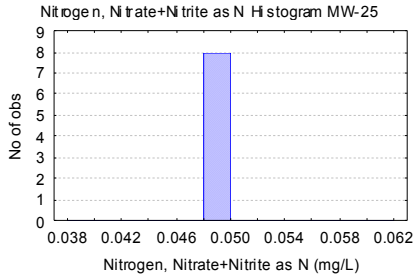
Nitrogen, Nitrate+Nitrite as N Histogram

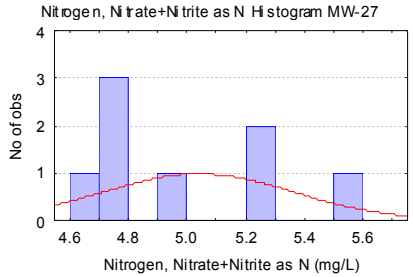


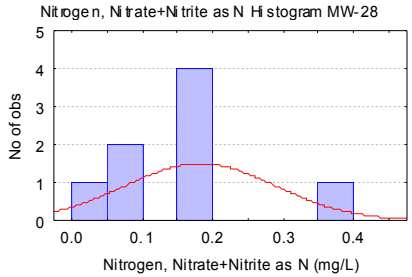


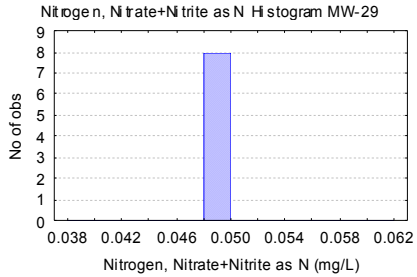


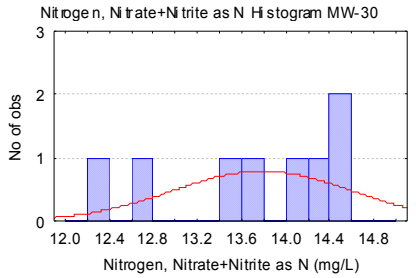


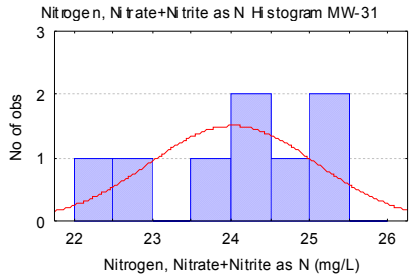


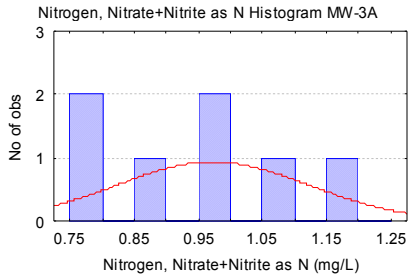




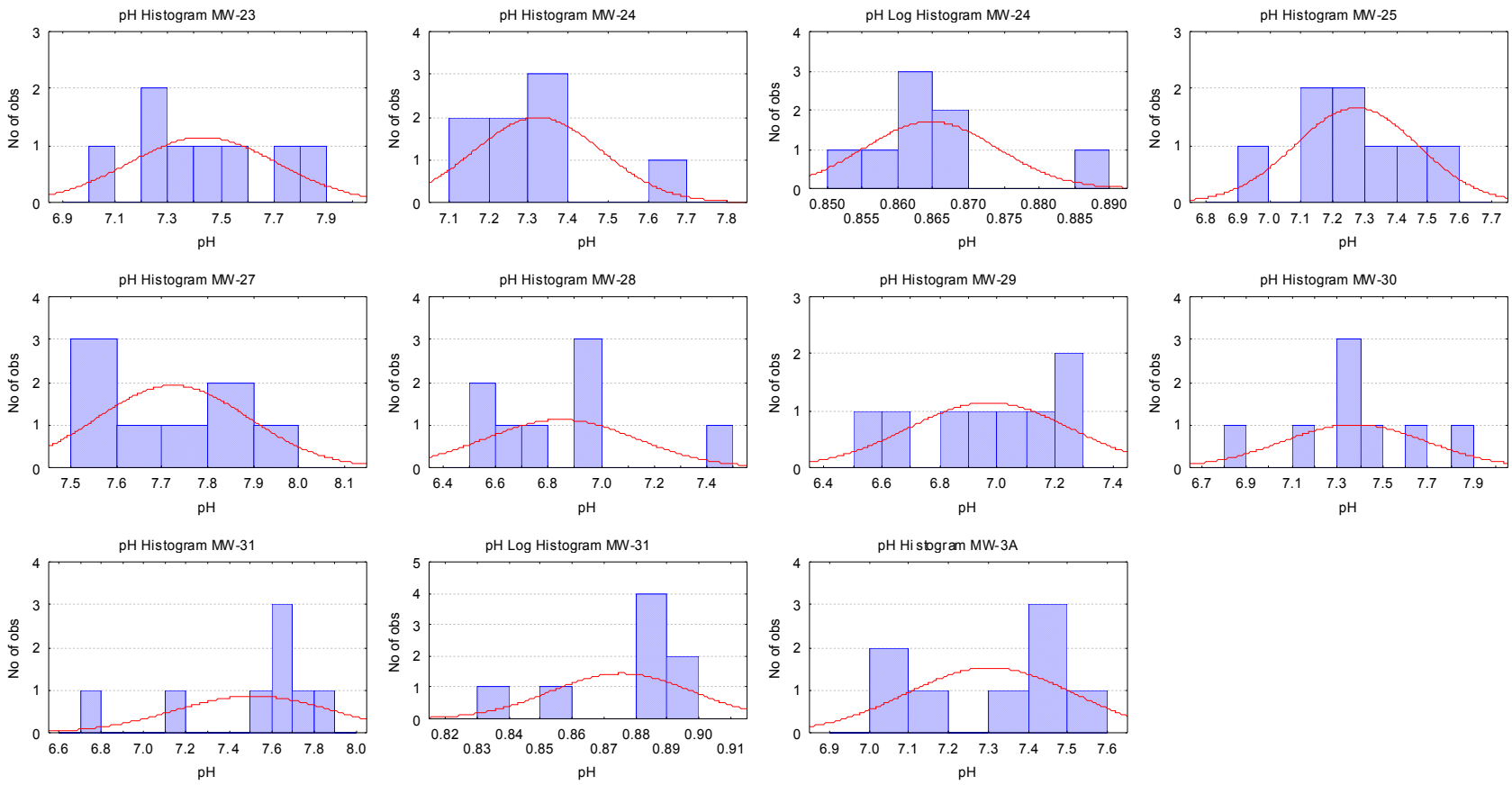




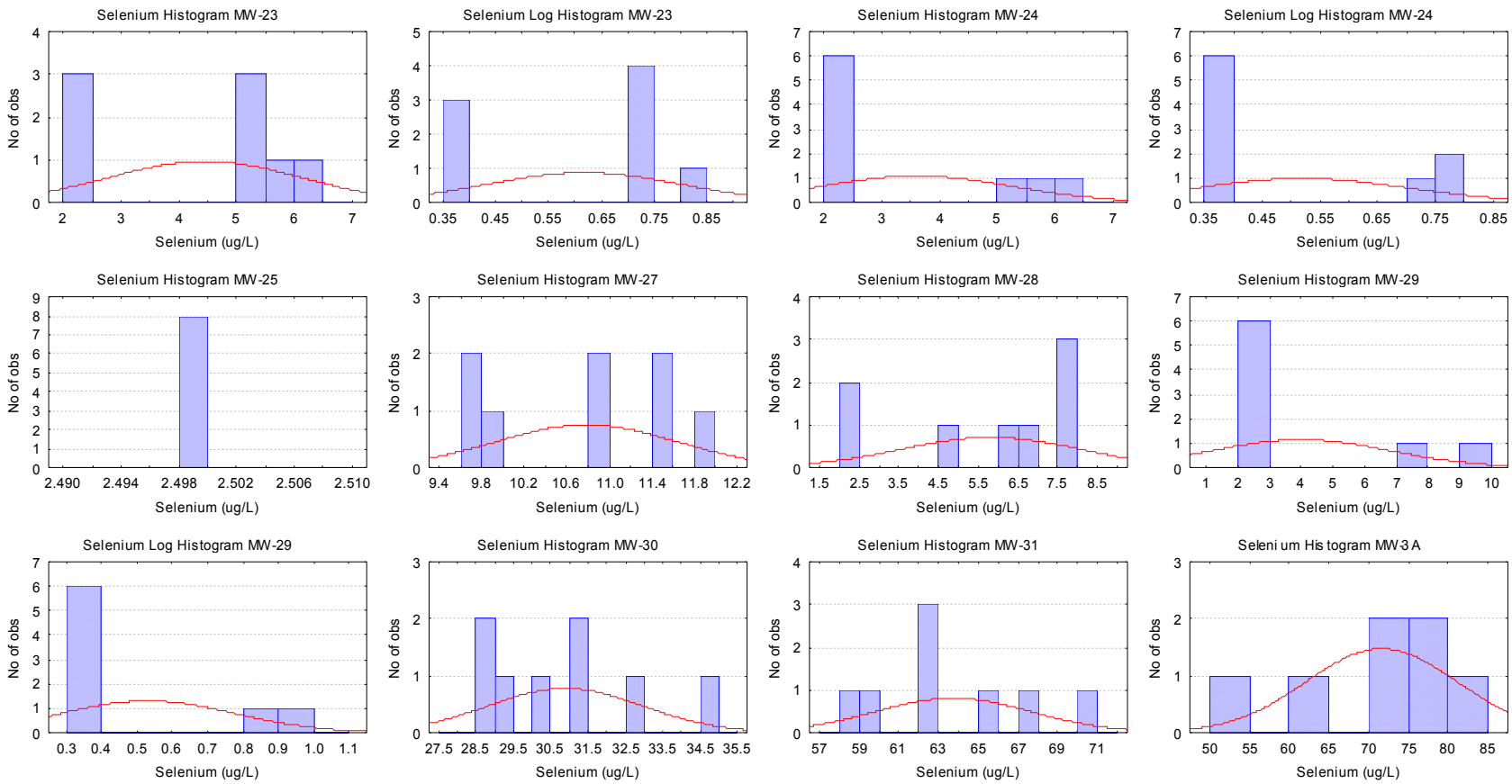




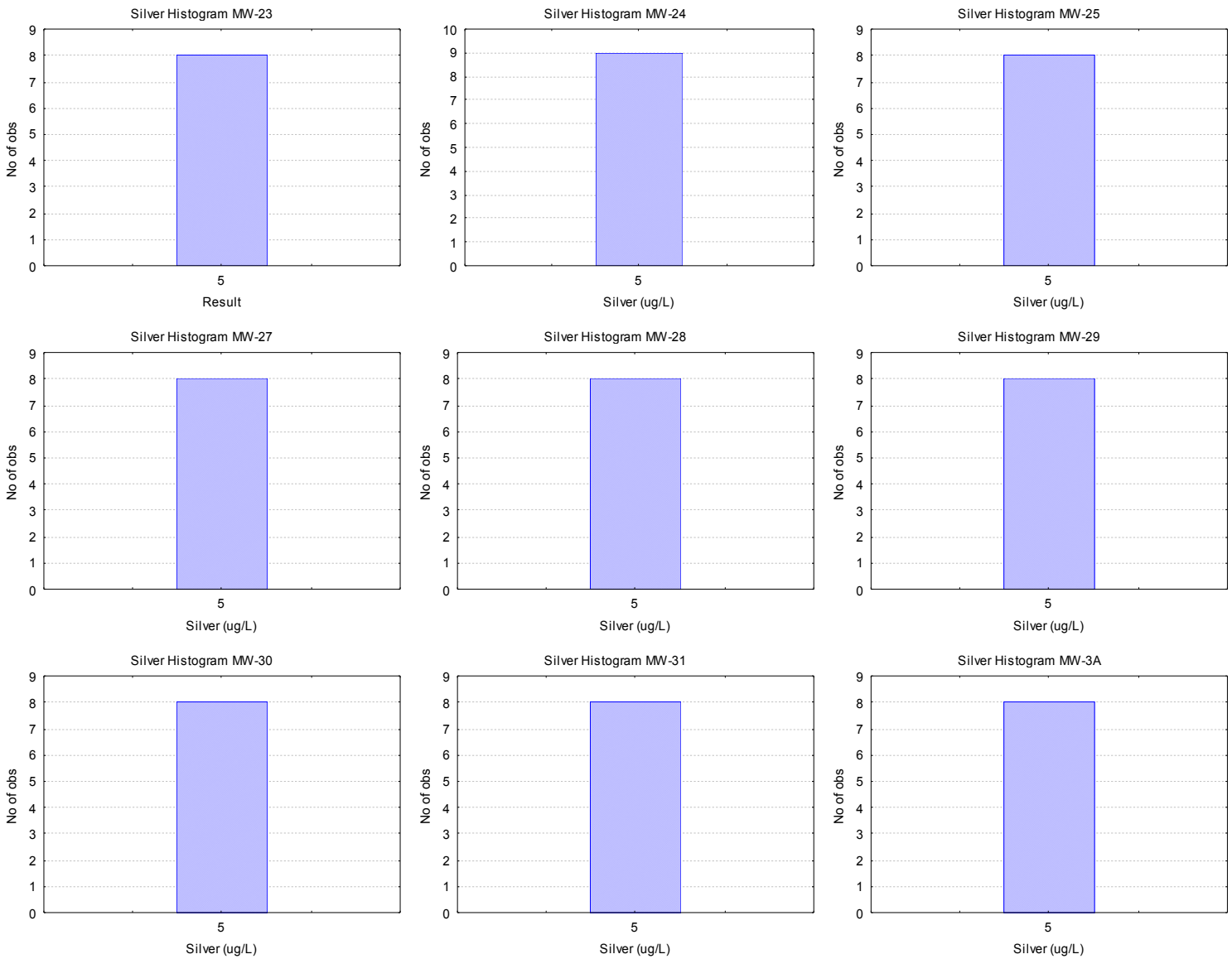
pH Histograms



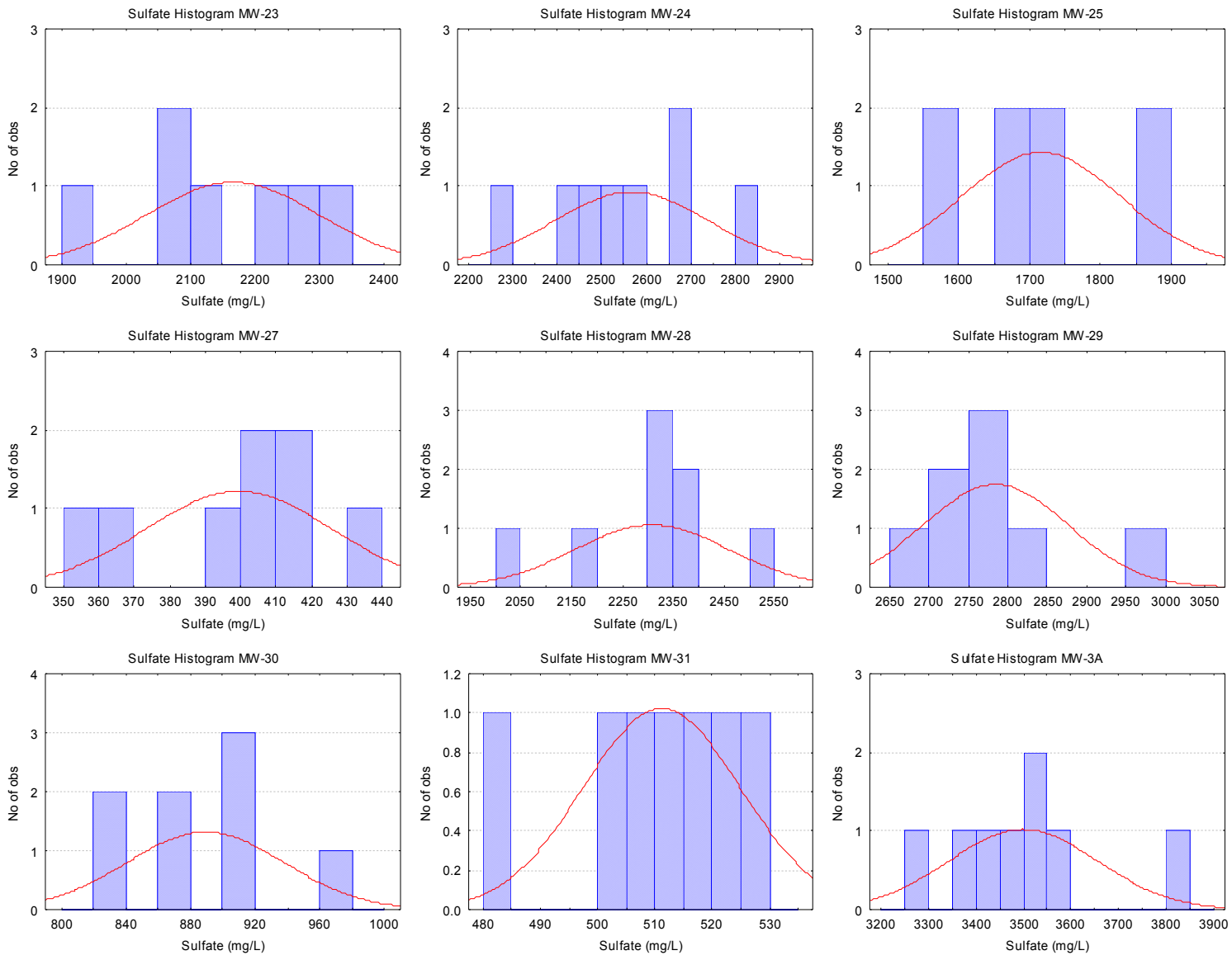
Selenium Histograms



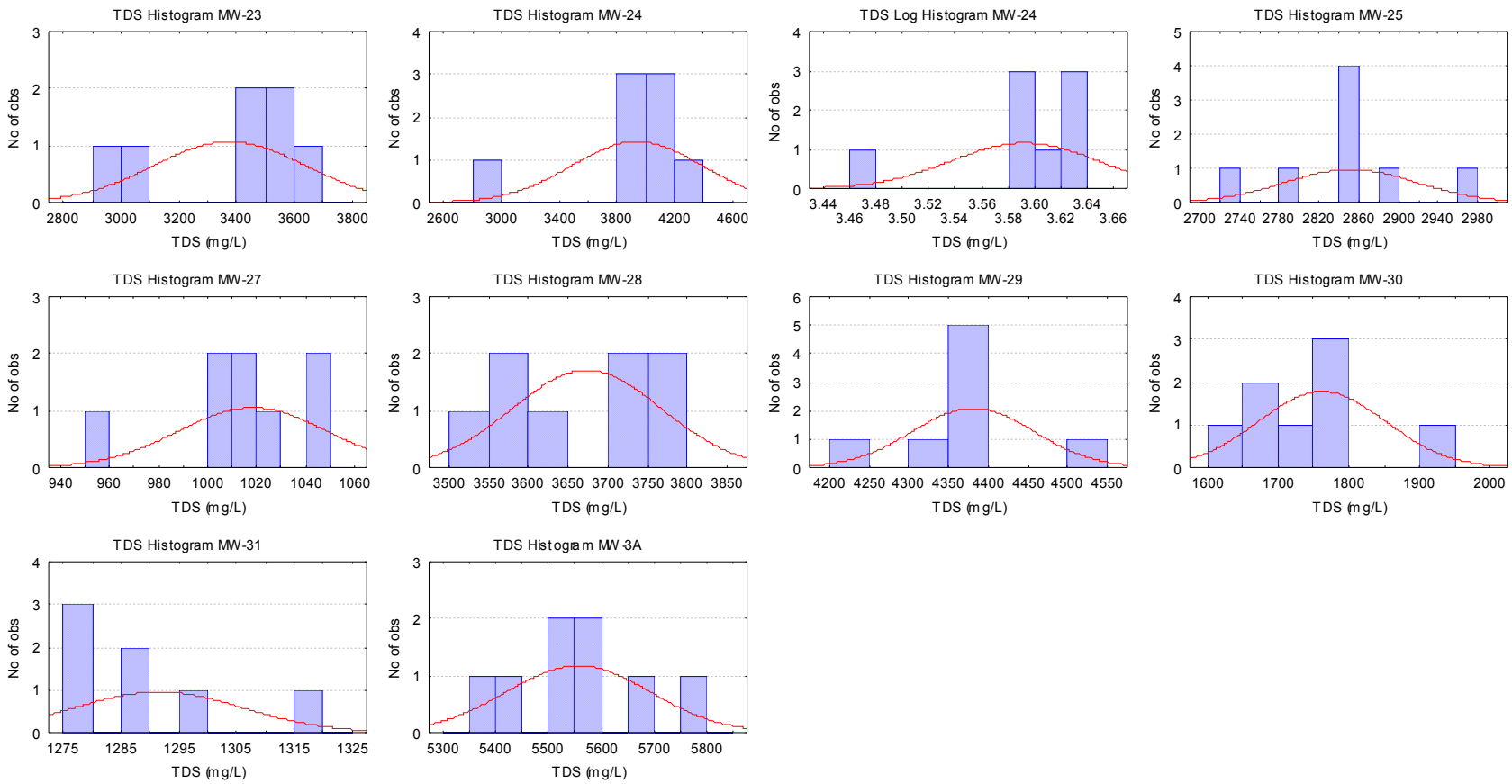
Silver Histograms



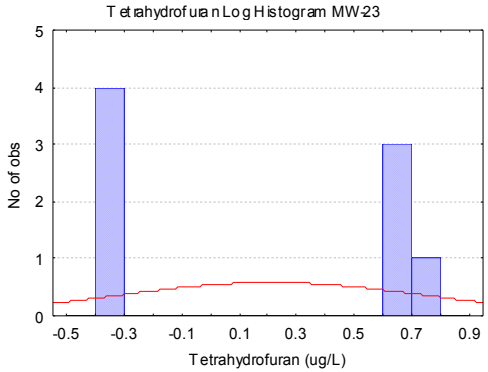
Sulfate Histograms

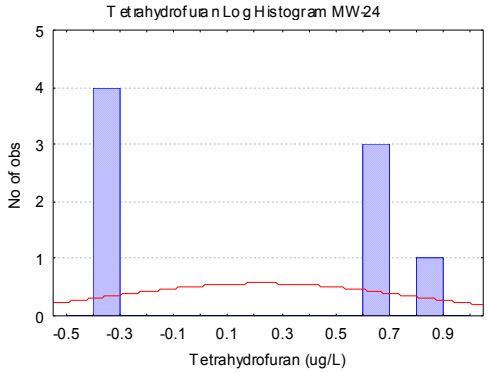


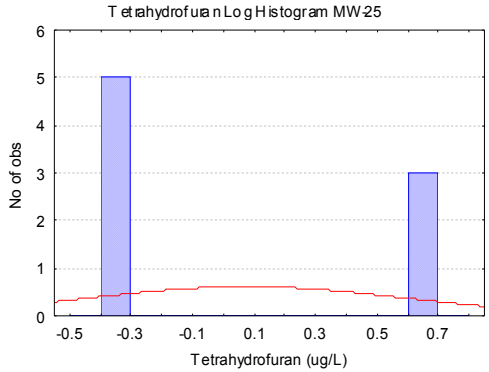
TDS Histograms

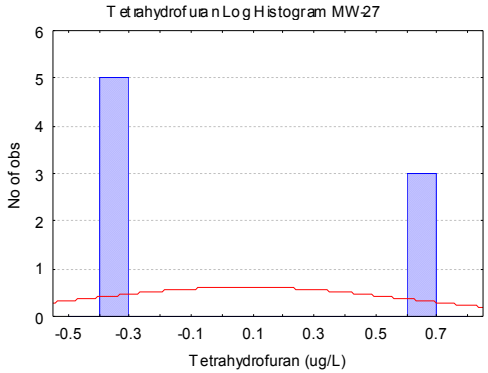


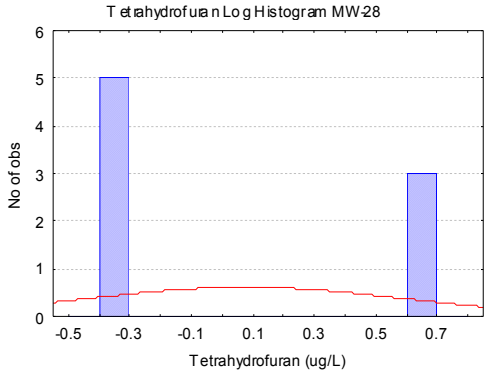
Tetrahydrofuran Histograms

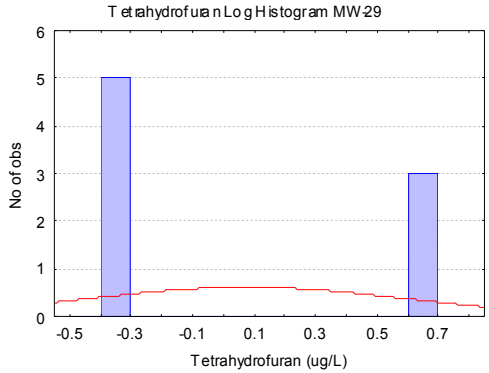


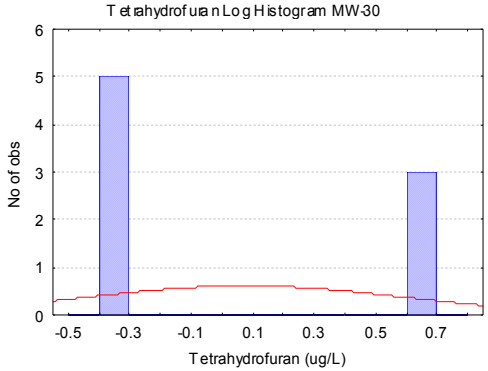


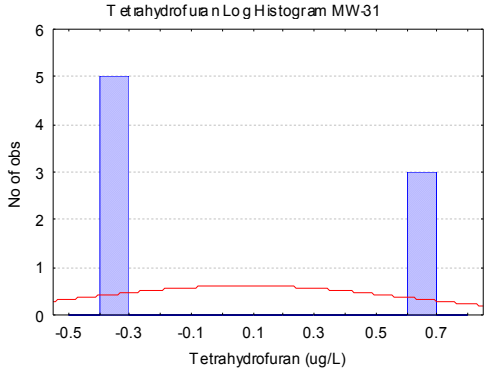


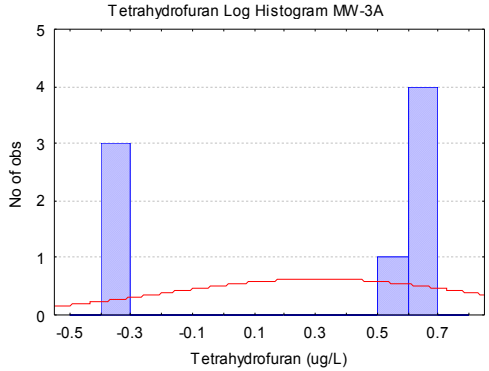




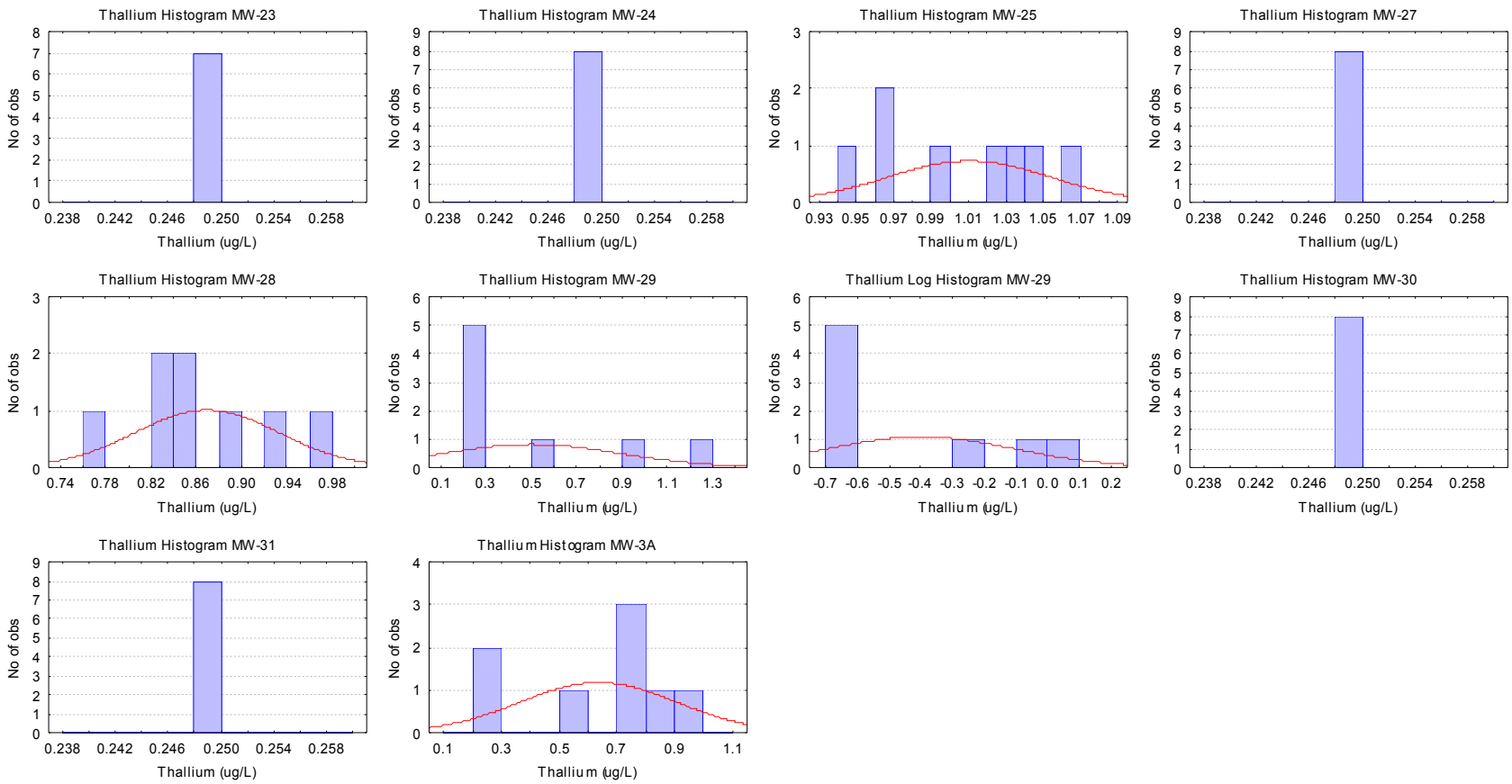




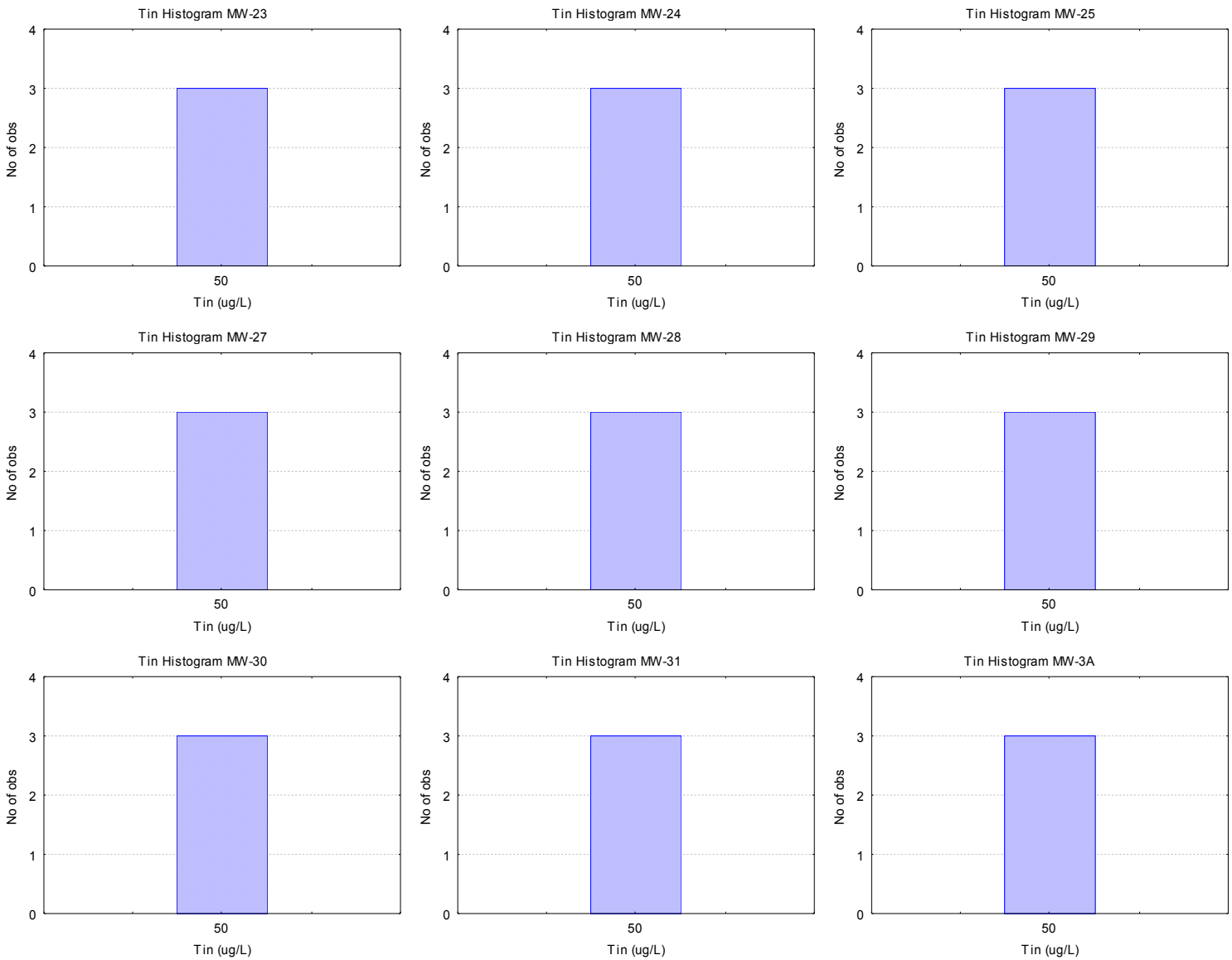




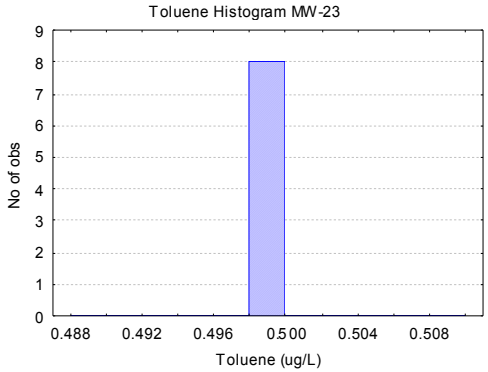
Thallium Histograms

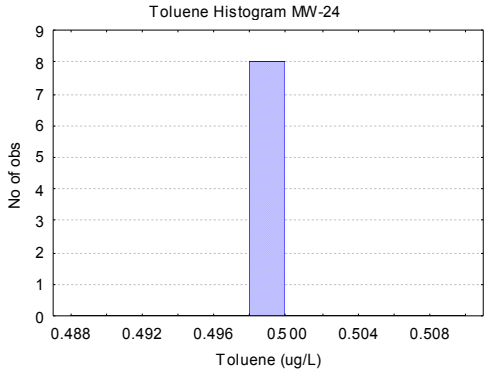


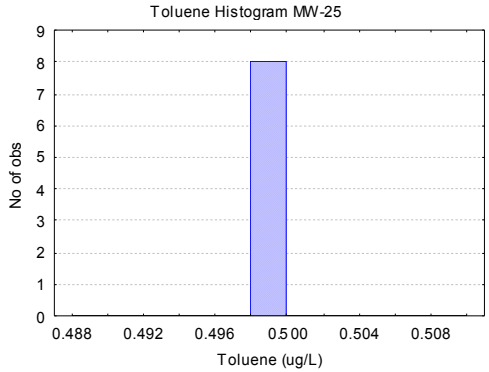
Tin Histograms

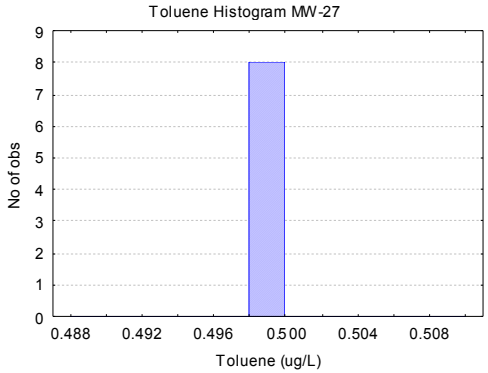


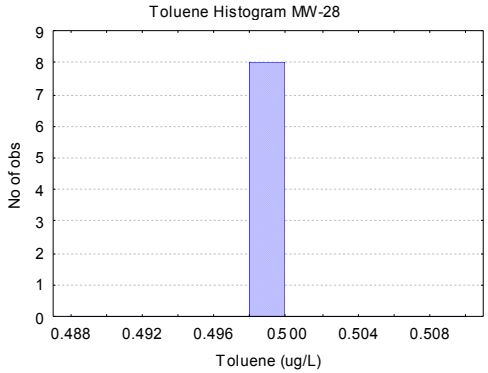
Toluene Histograms

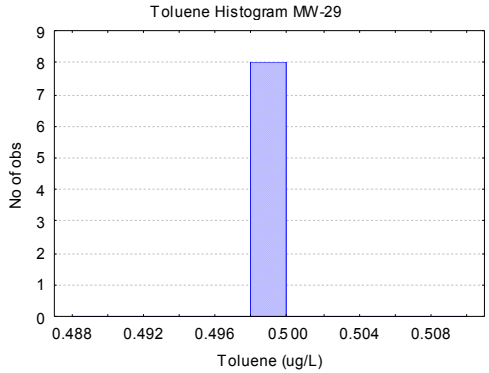


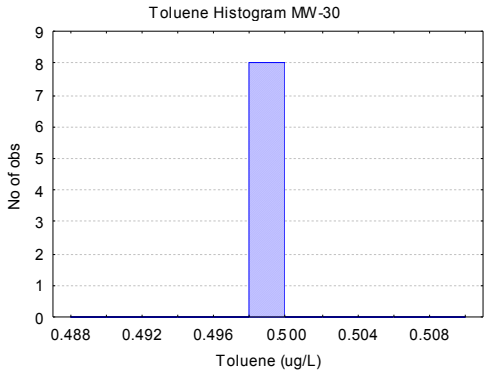


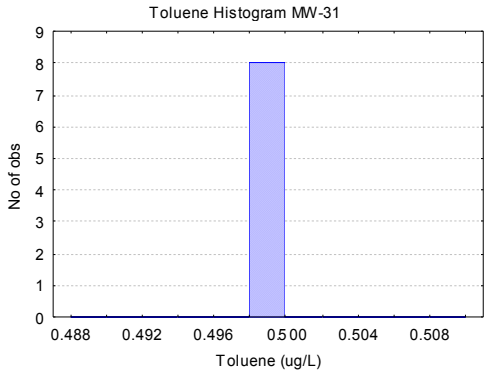


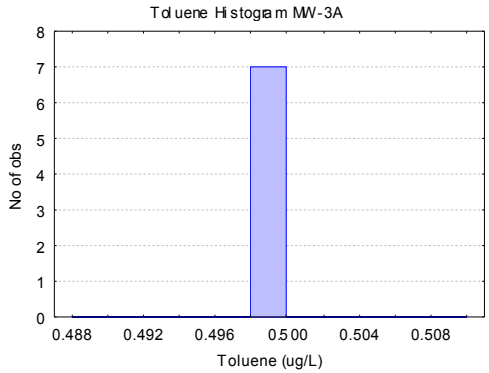




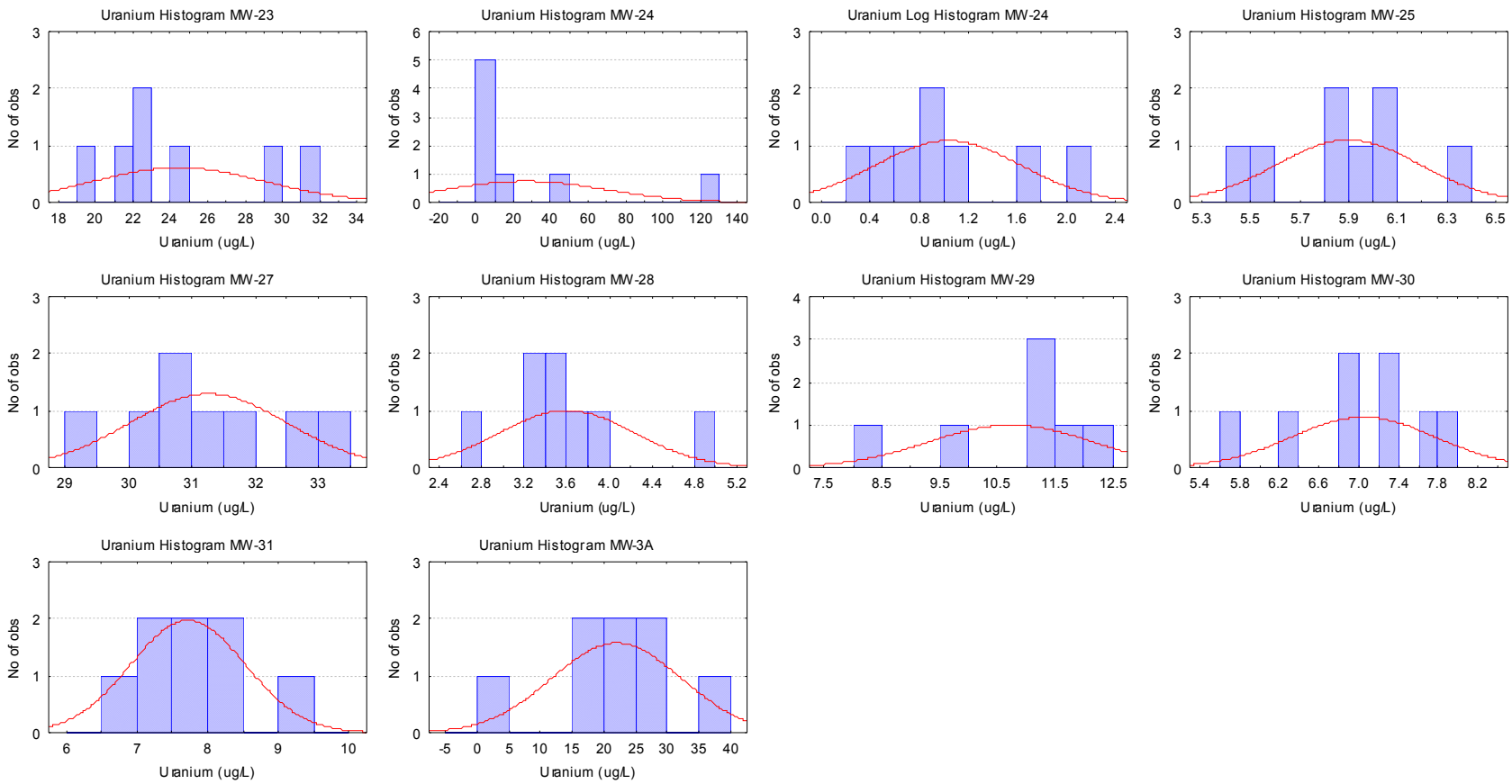




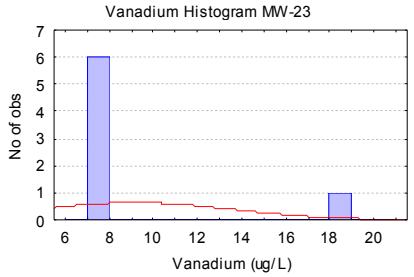


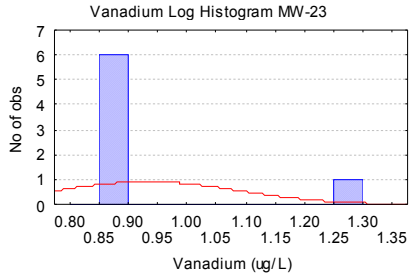


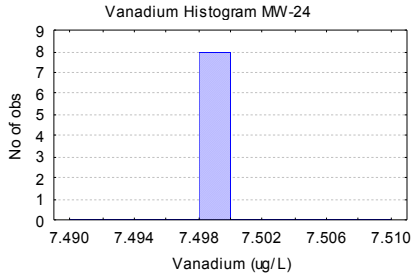
Uranium Histograms

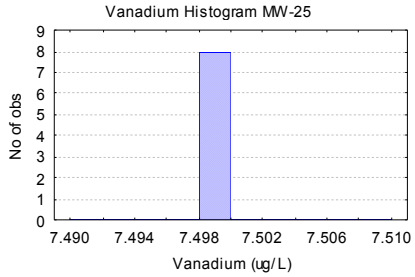


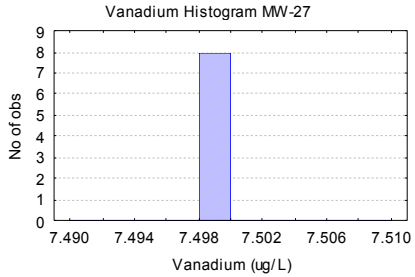
Vanadium Histograms

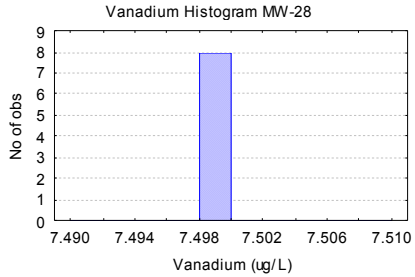


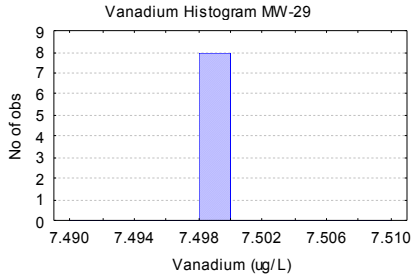


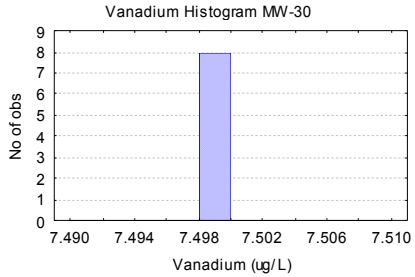


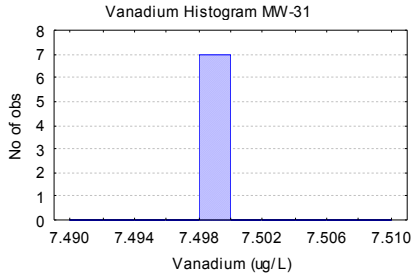


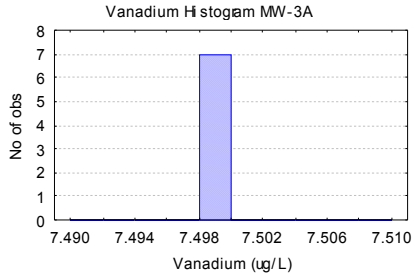




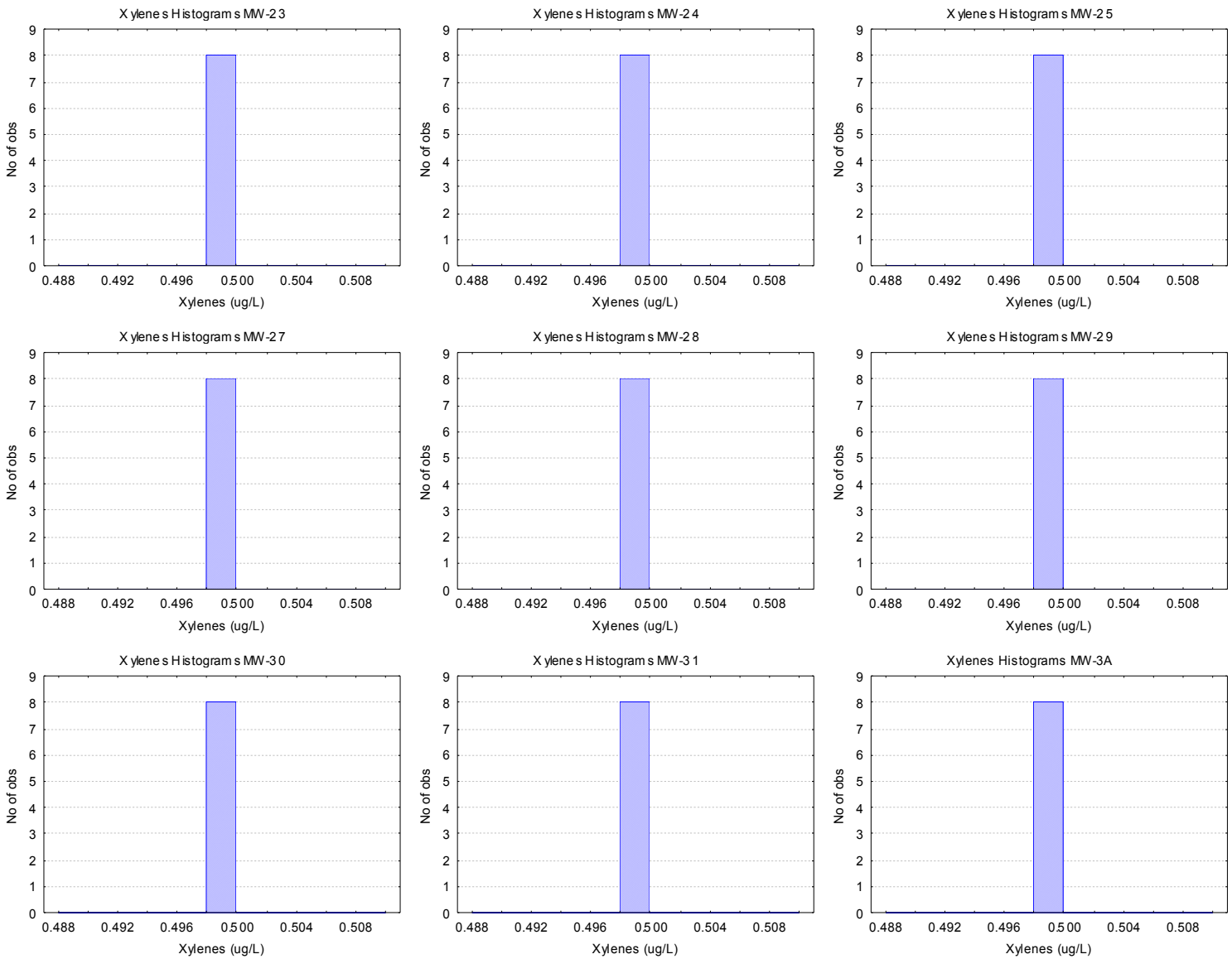
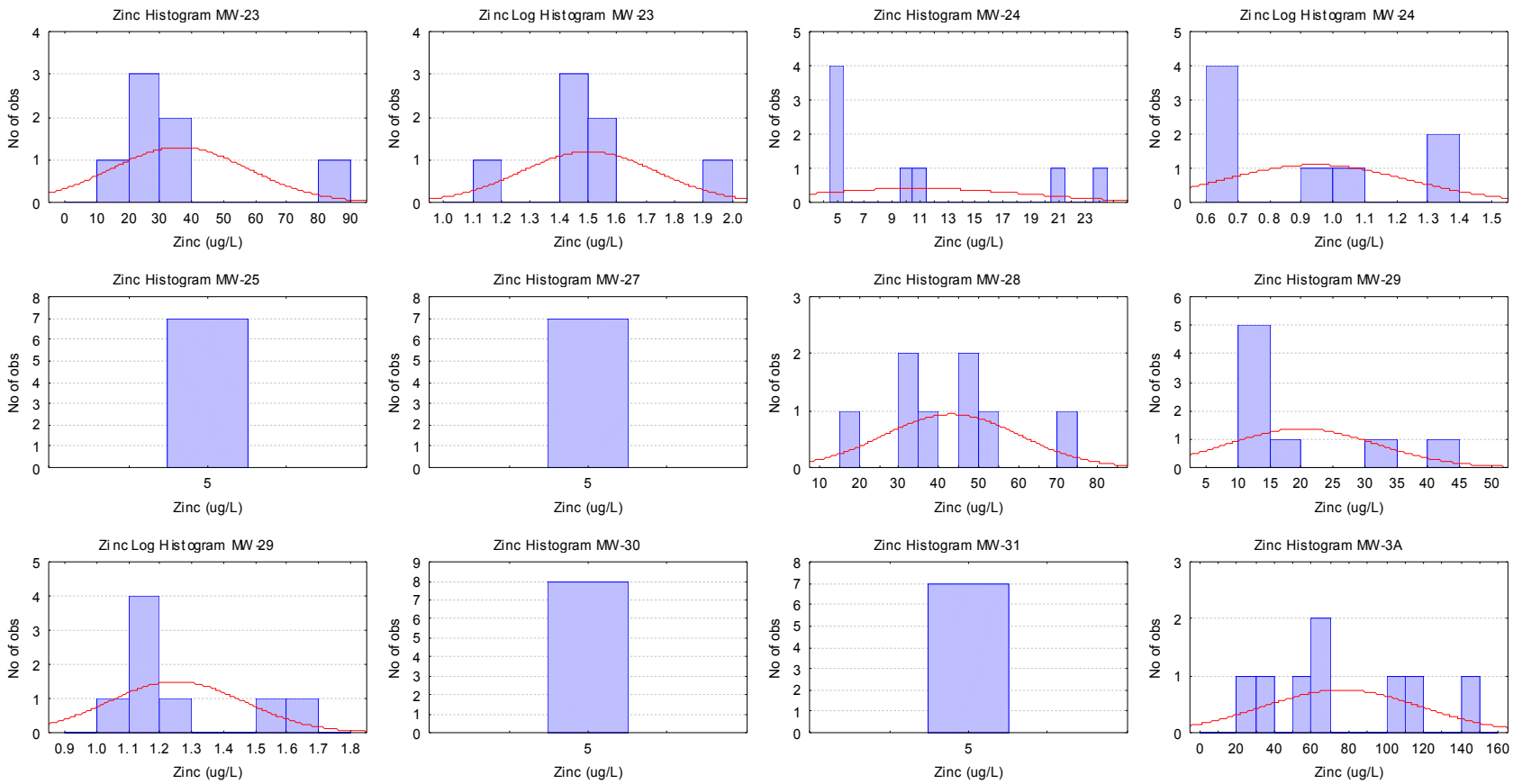








Xylenes Histograms



Zinc Histograms